

Supplementary Table 5: Proteomic profile of run 1 of the bilateral varicocele group proteins showing peptide number and peptide coverage

<i>No</i>	<i>Protein</i>	<i>Accession number</i>	<i>Mass (kDa)</i>	<i>Peptides number</i>	<i>Sequence coverage (%)</i>	<i>Spectral counts</i>
1	fibronectin isoform 3 preproprotein	16933542	259	150	69	1881
2	semenogelin-2 precursor	4506885	65	51	65	1598
3	semenogelin-1 preproprotein	4506883	52	70	77	1544
4	A-kinase anchor protein 4 isoform 2	21493039	93	73	77	1377
5	lactotransferrin isoform 1 precursor	54607120	78	73	81	1254
6	tubulin beta-4B chain	5174735	50	34	76	907
7	tubulin alpha-3C/D chain	17921993	50	30	74	705
8	actin, cytoplasmic 1	4501885	42	34	81	698
9	A-kinase anchor protein 3	21493041	95	54	58	641
10	heat shock-related 70 protein 2	13676857	70	42	66	617
11	heat shock protein HSP 90-alpha isoform 1	153792590	98	53	45	602
12	78 glucose-regulated protein precursor	16507237	72	36	52	519
13	endoplasmic precursor	4507677	92	57	63	517
14	clusterin preproprotein	355594753	52	26	47	514
15	myosin-9	12667788	227	108	49	510

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Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
16	pyruvate kinase isozymes M1/M2 isoform c	332164775	66	40	63	507
17	fatty acid synthase	41872631	273	75	28	475
18	heat shock protein HSP 90-beta	20149594	83	29	45	457
19	heat shock cognate 71 protein isoform 1	5729877	71	21	54	450
20	pyruvate kinase isozymes M1/M2 isoform a	33286418	58	3	66	442
21	tubulin beta chain	29788785	50	3	64	441
22	keratin, type II cytoskeletal 1	119395750	66	40	44	428
23	tubulin alpha-1A chain	17986283	50	4	66	407
24	prostatic acid phosphatase isoform TM-PAP precursor	197116348	48	25	53	402
25	ATP synthase subunit beta, mitochondrial precursor	32189394	57	28	74	389
26	outer dense fiber protein 2 isoform 3	310750406	81	33	44	371
27	heat shock 70 protein 1A/1B	194248072	70	17	54	363
28	heat shock 70 protein 1-like	124256496	70	24	52	335
29	keratin, type I cytoskeletal 10	195972866	59	33	50	334
30	prolactin-inducible protein precursor	4505821	17	16	77	324
31	protein disulfide-isomerase A3 precursor	21361657	57	34	63	324
32	annexin A6 isoform 1	71773329	76	44	67	322
33	glyceraldehyde-3-phosphate dehydrogenase, testis-specific	7657116	45	21	64	308
34	alpha-enolase isoform 1	4503571	47	34	77	306
35	keratin, type I cytoskeletal 9	55956899	62	33	53	303
36	annexin A5	4502107	36	32	81	298
37	elongation factor 1-alpha 1	4503471	50	24	58	293
38	annexin A2 isoform 1	50845388	40	31	69	283
39	protein-glutamine gamma-glutamyltransferase 4	156627577	77	42	65	280
40	fructose-bisphosphate aldolase A isoform 2	342187211	45	32	78	273
41	tubulin alpha-1C chain	14389309	50	2	62	270
42	keratin, type II cytoskeletal 2 epidermal	47132620	65	31	46	268
43	aminopeptidase N precursor	157266300	110	52	50	257
44	triosephosphate isomerase isoform 2	226529917	31	22	86	254
45	plastin-2	167614506	70	38	67	252
46	ropporin-1A	21359920	24	14	74	250
47	heat shock protein beta-1	4504517	23	21	90	248
48	phosphoglycerate kinase 2	31543397	45	29	84	238
49	creatine kinase B-type	21536286	43	19	68	227
50	calcium-binding tyrosine phosphorylation-regulated protein isoform c	24797112	41	20	62	219
51	hypoxia up-regulated protein 1 precursor	5453832	111	37	43	219
52	dipeptidyl peptidase 4	18765694	88	36	47	218
53	calcium-binding tyrosine phosphorylation-regulated protein isoform a	24797108	53	5	41	211
54	annexin A1	4502101	39	25	64	206
55	T-complex protein 1 subunit beta isoform 1	5453603	57	32	62	202
56	protein disulfide-isomerase precursor	20070125	57	32	59	199
57	prostate-specific antigen isoform 1 preproprotein	4502173	29	15	69	197
58	ATP synthase subunit alpha, mitochondrial precursor	4757810	60	25	49	195
59	ruvB-like 2	5730023	51	32	65	192
60	acetyl-CoA acetyltransferase, mitochondrial precursor	4557237	45	24	56	171
61	sorbitol dehydrogenase	156627571	38	18	59	167
62	hexokinase-1 isoform HKI-ta/tb	15991831	103	32	34	163
63	elongation factor 2	4503483	95	33	33	159
64	glyceraldehyde-3-phosphate dehydrogenase	7669492	36	15	64	158
65	60 heat shock protein, mitochondrial	31542947	61	26	54	157
66	transitional endoplasmic reticulum ATPase	6005942	89	30	47	156
67	leucine-rich repeat-containing protein 37B precursor	53829385	106	21	21	154
68	glutathione S-transferase Mu 3	23065552	27	16	58	152
69	clathrin heavy chain 1	4758012	192	39	25	152
70	neutral alpha-glucosidase AB isoform 2 precursor	38202257	107	29	32	152

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Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
71	ropporin-1B	59891409	24	4	73	151
72	malate dehydrogenase, mitochondrial precursor	21735621	36	18	64	147
73	fumarate hydratase, mitochondrial	19743875	55	22	55	146
74	nuclear pore membrane glycoprotein 210-like isoform 1 precursor	117414168	211	50	34	143
75	T-complex protein 1 subunit gamma isoform a	63162572	61	26	60	143
76	tektin-3	13994250	57	20	52	139
77	calnexin precursor	10716563	68	26	44	139
78	angiotensin-converting enzyme isoform 1 precursor	4503273	150	31	29	137
79	tubulin beta-4A chain	21361322	50	2	54	136
80	ruvB-like 1	4506753	50	18	55	135
81	myeloperoxidase precursor	4557759	84	34	41	134
82	peroxiredoxin-6	4758638	25	16	72	134
83	T-complex protein 1 subunit theta	48762932	60	22	48	133
84	sperm acrosome membrane-associated protein 1 precursor	13569934	32	9	39	132
85	ras-related protein Rab-2A isoform a	4506365	24	14	67	132
86	14-3-3 protein epsilon	5803225	29	20	62	131
87	uncharacterized protein C1orf56 precursor	20149646	37	12	48	131
88	T-complex protein 1 subunit delta	38455427	58	21	48	129
89	zona pellucida-binding protein 1 isoform 1 precursor	229577313	40	18	53	127
90	cysteine-rich secretory protein 1 isoform 1 precursor	327315372	28	14	69	123
91	T-complex protein 1 subunit alpha isoform a	57863257	60	21	56	122
92	cytosolic non-specific dipeptidase isoform 1	271398239	53	22	63	121
93	calreticulin precursor	4757900	48	19	63	120
94	cathelicidin antimicrobial peptide preproprotein	348041314	20	12	51	120
95	peroxiredoxin-1	320461711	22	15	75	119
96	tubulin beta-3 chain isoform 1	50592996	50	2	32	119
97	acrosin-binding protein precursor	17999524	61	17	37	118
98	saccharopine dehydrogenase-like oxidoreductase	55770836	47	14	53	116
99	elongation factor 1-gamma	4503481	50	17	38	114
100	sperm protein associated with the nucleus on the X chromosome C	13435137	11	7	78	113
101	lipoprotein lipase precursor	4557727	53	17	45	113
102	leucine-rich repeat-containing protein 37A precursor	289547512	188	19	7.50	112
103	L-lactate dehydrogenase C chain	4504973	36	20	69	111
104	T-complex protein 1 subunit epsilon	24307939	60	20	48	110
105	annexin A3	4826643	36	21	65	109
106	trifunctional enzyme subunit beta, mitochondrial precursor	4504327	51	22	47	109
107	phospholipid hydroperoxide glutathione peroxidase, mitochondrial isoform A precursor	75709200	22	14	59	108
108	gastricsin isoform 1 preproprotein	4505757	42	5	12	108
109	serum albumin preproprotein	4502027	69	28	54	106
110	14-3-3 protein zeta/delta	4507953	28	10	53	106
111	sperm protein associated with the nucleus on the X chromosome B/F	22027492	12	6	80	104
112	matrix-remodeling-associated protein 5 precursor	139948432	312	32	12	103
113	long-chain-fatty-acid--CoA ligase 1	40807491	78	22	26	102
114	phosphoglycerate kinase 1	4505763	45	11	53	100
115	D-3-phosphoglycerate dehydrogenase	23308577	57	12	28	99
116	tektin-2	16507950	50	21	53	98
117	keratin, type II cytoskeletal 5	119395754	62	13	26	97
118	keratin, type I cytoskeletal 14	15431310	52	8	24	96
119	radial spoke head protein 6 homolog A	13540559	81	15	36	94
120	filamin-B isoform 2	105990514	278	37	20	93
121	succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	156416003	73	18	35	91
122	pyruvate dehydrogenase E1 component subunit beta, mitochondrial isoform 1 precursor	156564403	39	13	46	88
123	cytochrome c oxidase subunit 4 isoform 1, mitochondrial precursor	4502981	20	15	54	86
124	eZRin	21614499	69	19	21	86
125	myosin-10	41406064	229	25	21	86

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No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
126	isocitrate dehydrogenase [NADP] cytoplasmic	28178825	47	17	33	85
127	cytochrome b-c1 complex subunit 2, mitochondrial precursor	50592988	48	17	45	84
128	aconitate hydratase, mitochondrial precursor	4501867	85	19	24	82
129	laminin subunit beta-2 precursor	119703755	196	25	19	81
130	T-complex protein 1 subunit eta isoform a	5453607	59	17	37	81
131	izumo sperm-egg fusion protein 4 isoform 1 precursor	89903025	24	8	50	81
132	epididymal sperm-binding protein 1 precursor	301601648	26	9	48	80
133	cytoplasmic dynein 1 heavy chain 1	33350932	532	32	5.80	80
134	myosin light polypeptide 6 isoform 2	88999583	17	11	84	80
135	histone H2B type 1-A	24586679	14	8	45	79
136	cytochrome c oxidase subunit 5A, mitochondrial precursor	190885499	17	11	71	79
137	uncharacterized protein KIAA1683 isoform a	224451032	147	25	22	79
138	T-complex protein 1 subunit zeta isoform a	4502643	58	18	33	79
139	doilychyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1 precursor	4506675	69	20	45	78
140	peptidyl-prolyl cis-trans isomerase A	10863927	18	13	62	77
141	alpha-crystallin B chain	4503057	20	12	55	77
142	L-asparaginase	145275200	32	13	49	75
143	14-3-3 protein theta	5803227	28	11	49	74
144	glutamine synthetase	19923206	42	11	24	72
145	ubiquitin-like modifier-activating enzyme 1	23510340	118	17	15	72
146	cofilin-1	5031635	19	11	63	72
147	14-3-3 protein sigma	5454052	28	11	45	72
148	keratin, type II cytoskeletal 6A	5031839	60	7	23	71
149	actin-related protein T2	29893808	42	11	36	71
150	anterior gradient protein 2 homolog precursor	5453541	20	9	53	71
151	agnin precursor	54873613	215	25	17	70
152	histone H4	4504303	11	12	64	70
153	sperm protein associated with the nucleus on the X chromosome E	22027496	11	2	77	70
154	peptidyl-prolyl cis-trans isomerase B precursor	4758950	24	14	58	70
155	alpha-centractin	5031569	43	13	56	70
156	mitochondrial inner membrane protein isoform 3	154354966	83	20	34	69
157	laminin subunit alpha-5 precursor	21264602	400	30	11	68
158	peroxiredoxin-4 precursor	5453549	31	12	56	68
159	adipocyte plasma membrane-associated protein	24308201	46	18	56	68
160	glutathione S-transferase P	4504183	23	9	56	68
161	alpha-actinin-4	12025678	105	20	26	68
162	alcohol dehydrogenase [NADP+]	24497577	37	11	32	68
163	peroxiredoxin-5, mitochondrial isoform a precursor	6912238	22	14	57	68
164	dynein light chain 2, cytoplasmic	18087855	10	5	65	67
165	azurocidin preproprotein	11342670	27	8	51	67
166	radial spoke head 1 homolog	18254456	35	11	46	67
167	keratin, type II cytoskeletal 6B	119703753	60	2	23	67
168	peroxiredoxin-2 isoform a	32189392	22	12	55	66
169	carboxypeptidase Z isoform 2 precursor	62388875	73	17	33	66
170	dihydrolipoyl dehydrogenase, mitochondrial precursor	91199540	54	20	55	65
171	dipeptidase 3 isoform a precursor	193211608	56	14	34	65
172	valyl-tRNA synthetase	5454158	140	18	18	65
173	keratin, type I cytoskeletal 13 isoform a	131412225	50	18	48	64
174	ubiquitin-40S ribosomal protein S27a precursor	208022622	18	4	30	63
175	protein NDRG1	37655183	43	11	34	63
176	6-phosphofructokinase type C isoform 1	11321601	86	17	25	63
177	ferritin, mitochondrial precursor	29126241	28	13	60	62
178	laminin subunit gamma-1 precursor	145309326	178	21	16	61

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No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
179	protein S100-A9	4506773	13	10	68	61
180	cytosol aminopeptidase	41393561	56	20	56	60
181	dynein light chain 1, cytoplasmic	4505813	10	8	65	60
182	acrosin precursor	148613878	46	14	39	60
183	carbonyl reductase [NADPH] 1	4502599	30	13	51	59
184	myeloid leukemia factor 1 isoform 1	11967975	31	11	56	59
185	trifunctional enzyme subunit alpha, mitochondrial precursor	20127408	83	14	21	58
186	plasma serine protease inhibitor precursor	194018472	46	15	45	58
187	erlin-2 isoform 1	6005721	38	14	50	58
188	sperm surface protein Sp17	8394343	17	6	64	58
189	26S protease regulatory subunit 8 isoform 1	24497435	46	10	30	57
190	protein S100-A8	21614544	11	8	58	57
191	olfactomedin-4 precursor	32313593	57	13	29	56
192	tektin-4	21389613	51	11	30	56
193	glucosamine--fructose-6-phosphate aminotransferase [isomerizing] 1 isoform 1	347659028	79	13	17	55
194	annexin A4	4502105	36	15	50	55
195	cytochrome b-c1 complex subunit 1, mitochondrial precursor	46593007	53	12	31	55
196	voltage-dependent anion-selective channel protein 2 isoform 2	296317339	32	11	47	55
197	elongation factor 1-delta isoform 1	304555581	71	7	16	55
198	cAMP-dependent protein kinase type I-alpha regulatory subunit	4506063	43	12	36	54
199	flavin reductase (NADPH)	4502419	22	5	35	53
200	protein phosphatase 1 regulatory subunit 7	4506013	42	9	32	53
201	adenylate kinase isoenzyme 1	4502011	22	7	35	53
202	L-xylulose reductase isoform 1	7705925	26	8	41	52
203	26S proteasome non-ATPase regulatory subunit 11	28872725	47	9	21	52
204	protein disulfide-isomerase A6 precursor	5031973	48	12	32	52
205	protein FAM166A	48717426	36	9	34	52
206	single-stranded DNA-binding protein, mitochondrial precursor	4507231	17	12	65	51
207	dihydropyridyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial precursor	31711992	69	14	27	50
208	carbonic anhydrase 4 precursor	4502519	35	13	44	50
209	ras-related protein Rab-11B	190358517	24	11	54	50
210	hsc70-interacting protein	19923193	41	7	22	50
211	collagen alpha-1(XVIII) chain isoform 1 precursor	110611235	154	13	14	50
212	myosin-14 isoform 3	224831241	232	14	11	50
213	cytochrome c oxidase subunit II	251831110	26	8	48	49
214	ATP synthase subunit O, mitochondrial precursor	4502303	23	9	54	49
215	vesicular integral-membrane protein VIP36 precursor	5803023	40	12	48	48
216	serum amyloid P-component precursor	4502133	25	9	33	48
217	protein FAM71B	222418633	65	10	13	48
218	cAMP-dependent protein kinase type II-alpha regulatory subunit	4758958	46	15	45	48
219	radial spoke head protein 9 homolog isoform 1	32964825	31	16	71	48
220	serpin B6	41152086	43	13	49	47
221	L-lactate dehydrogenase A chain isoform 3	260099723	40	9	28	47
222	transmembrane emp24 domain-containing protein 10 precursor	98986464	25	8	40	47
223	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2 isoform 2 precursor	209413738	68	13	35	47
224	NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial precursor	4758788	30	13	53	47
225	keratin, type I cytoskeletal 16	24430192	51	6	25	46
226	SYNJ2BP-COX16 protein isoform 1	321400118	21	6	31	46
227	cytoskeleton-associated protein 4	19920317	66	16	37	46
228	sperm equatorial segment protein 1 precursor	21717832	39	5	16	45
229	cytochrome c oxidase subunit 5B, mitochondrial precursor	17017988	14	14	67	45

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No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
230	plastin-3 isoform 1	209862851	71	7	19	45
231	hydroxyacyl-coenzyme A dehydrogenase, mitochondrial isoform 1 precursor	296179427	36	10	54	45
232	26S protease regulatory subunit 6A	21361144	49	12	27	45
233	26S protease regulatory subunit 6B isoform 1	5729991	47	10	28	45
234	neprilysin	116256329	86	17	25	44
235	mitochondrial carrier homolog 2	7657347	33	10	48	44
236	60S acidic ribosomal protein P0	16933546	34	8	39	44
237	neutrophil defensin 3 preproprotein	4885179	10	4	20	44
238	alpha-actinin-1 isoform c	194097352	103	8	17	44
239	ras GTPase-activating-like protein IQGAP1	4506787	189	16	11	43
240	lipid phosphate phosphohydrolase 1 isoform 1	29171736	32	5	28	43
241	ribose-phosphate pyrophosphokinase 2 isoform 2	4506129	35	10	44	43
242	26S protease regulatory subunit 4	24430151	49	9	20	43
243	citrate synthase, mitochondrial precursor	38327625	52	13	43	42
244	profilin-1	4826898	15	9	51	42
245	26S proteasome non-ATPase regulatory subunit 13 isoform 1	157502193	43	11	35	42
246	maltase-glucoamylase, intestinal	221316699	210	18	14	41
247	carboxypeptidase E preproprotein	4503009	53	10	17	41
248	aldose reductase	4502049	36	13	52	41
249	protein dpy-19 homolog 2	93277105	87	12	16	41
250	nucleoside diphosphate kinase homolog 5	4505413	24	8	58	41
251	endoplasmic reticulum resident protein 29 isoform 1 precursor	5803013	29	14	62	41
252	glycogen phosphorylase, brain form	21361370	97	12	13	40
253	2,4-dienoyl-CoA reductase, mitochondrial precursor	4503301	36	11	50	39
254	fructose-bisphosphate aldolase C	4885063	39	2	17	39
255	14-3-3 protein beta/alpha	21328448	28	5	39	39
256	keratin, type II cytoskeletal 4	331999954	56	13	30	39
257	outer dense fiber protein 3	19526475	28	9	32	39
258	acrosomal protein SP-10 isoform a precursor	4501879	28	5	21	38
259	beta-2-microglobulin precursor	4757826	14	3	19	38
260	epididymal secretory protein E3-beta precursor	11641279	18	7	50	38
261	chloride intracellular channel protein 1	14251209	27	8	46	37
262	cullin-associated NEDD8-dissociated protein 1	21361794	136	14	15	37
263	glycerol kinase 2	41393575	61	9	21	37
264	glypican-1 precursor	167001141	62	13	28	37
265	adenine phosphoribosyltransferase isoform a	4502171	20	9	47	37
266	dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 subunit precursor	20070197	51	10	37	37
267	tubulin beta-6 chain	14210536	50	2	15	37
268	histone H2B type 1-M	4504263	14	3	44	37
269	parkin coregulated gene protein isoform 2	122939202	29	10	46	37
270	lactoylglutathione lyase	118402586	21	9	33	36
271	voltage-dependent anion-selective channel protein 3 isoform 1	25188179	31	10	42	36
272	cytochrome c1, heme protein, mitochondrial	21359867	35	9	40	36
273	myosin regulatory light chain 12B	15809016	20	8	68	36
274	ATP synthase subunit b, mitochondrial precursor	21361565	29	8	33	36
275	nuclear pore complex protein Nup155 isoform 1	24430149	155	14	12	35
276	26S proteasome non-ATPase regulatory subunit 7	25777615	37	8	34	35
277	isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial precursor	5031777	40	8	29	35
278	thioredoxin-related transmembrane protein 4 precursor	40254947	39	4	12	34
279	membrane-associated progesterone receptor component 1	5729875	22	10	37	34
280	glutathione reductase, mitochondrial isoform 1 precursor	50301238	56	12	38	33
281	proteasome subunit alpha type-5 isoform 1	23110942	26	8	44	33
282	electron transfer flavoprotein subunit alpha, mitochondrial isoform a	4503607	35	11	51	33
283	succinyl-CoA: 3-ketoacid-coenzyme A transferase 1, mitochondrial precursor	4557817	56	12	21	33

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Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
284	hyaluronidase PH-20 isoform 2	291290981	58	8	19	33
285	barrier-to-autointegration factor	4502389	10	9	64	33
286	NADH-ubiquinone oxidoreductase 75 subunit, mitochondrial isoform 1	33519475	79	10	19	33
287	prohibitin	4505773	30	10	44	33
288	keratin, type I cytoskeletal 19	24234699	44	4	29	33
289	CD177 antigen precursor	110735433	46	8	25	32
290	nucleobindin-2 precursor	4826870	50	13	38	32
291	peptidyl-prolyl cis-trans isomerase FKBP4	4503729	52	11	25	32
292	ras-related protein Rab-1B	13569962	22	7	31	32
293	radial spoke head protein 3 homolog	31543559	64	8	20	32
294	von Willebrand factor A domain-containing protein 1 isoform 1 precursor	40068485	47	9	37	32
295	protein DJ-1	31543380	20	5	22	31
296	uncharacterized protein C2Oorf107 precursor	71043642	19	11	50	31
297	sodium/potassium-transporting ATPase subunit beta-3	4502281	32	9	27	31
298	neutrophil gelatinase-associated lipocalin precursor	38455402	23	9	52	31
299	T-complex protein 1 subunit zeta-2 isoform 1	58331173	58	8	30	31
300	FUN14 domain-containing protein 2	24371248	21	8	28	31
301	keratin, type I cytoskeletal 18	4557888	48	7	20	31
302	speriolin isoform 1	197276668	62	5	14	31
303	uncharacterized protein C2orf57	284413778	42	4	12	31
304	calmodulin	58218968	17	8	42	30
305	dihydropolyllysine-residue succinyltransferase component of 2- oxoglutarate dehydrogenase complex, mitochondrial isoform 1 precursor	19923748	49	11	36	30
306	vesicle-fusing ATPase	156564401	83	14	19	30
307	sperm acrosome membrane-associated protein 3	27777653	23	6	33	30
308	translationally-controlled tumor protein	4507669	20	5	26	30
309	eukaryotic translation initiation factor 5A-1 isoform B	219555712	17	8	36	30
310	L-lactate dehydrogenase A-like 6B	15082234	42	6	22	30
311	ADP-ribosylation factor 1	4502201	21	8	51	30
312	uncharacterized protein C2Oorf106 precursor	71043622	20	4	41	30
313	DPY30 domain-containing protein 1	20270377	21	8	50	30
314	kallikrein-2 isoform 1 precursor	5031829	29	5	30	30
315	spondin-2 precursor	6912682	36	5	10	30
316	glucose-6-phosphate isomerase isoform 2	18201905	63	11	30	29
317	proteasome subunit alpha type-3 isoform 2	23110939	28	7	28	29
318	ADP/ATP translocase 4	13775208	35	11	37	29
319	ATP-citrate synthase isoform 1	38569421	121	10	7.10	29
320	glycerol-3-phosphate dehydrogenase 1-like protein	24307999	38	11	30	29
321	histone H3.1	4504281	15	4	40	29
322	mitochondria-eating protein	21687119	61	6	10	29
323	succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial precursor	115387094	32	9	37	29
324	tektin-1	16753231	48	9	32	29
325	transmembrane protease serine 2 isoform 2	205360943	54	8	15	28
326	protein S100-A11	5032057	12	7	63	28
327	heat shock 70 protein 4L	31541941	95	12	10	28
328	transmembrane emp24 domain-containing protein 9 precursor	39725636	27	6	25	28
329	epididymal secretory protein E3-alpha precursor	11386189	18	6	35	28
330	ras-related protein Rab-14	19923483	24	7	45	28
331	regenerating islet-derived protein 3-gamma precursor	38348213	19	4	34	28
332	proteasome subunit beta type-5 isoform 1	4506201	28	8	30	27
333	histone H2A type 1-A	25092737	14	6	35	27
334	integrin alpha-M isoform 1 precursor	224831239	127	12	12	27
335	ATP synthase subunit d, mitochondrial isoform a	5453559	18	10	57	27
336	annexin A11	22165431	54	12	22	27
337	synaptic vesicle membrane protein VAT-1 homolog	18379349	42	9	24	27

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Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
338	T-complex protein 11 homolog isoform 1	148226214	57	7	25	27
339	testis-expressed protein 101 isoform 1	194018544	29	5	18	26
340	carnitine O-palmitoyltransferase 2, mitochondrial precursor	4503023	74	9	21	26
341	integrin beta-2 precursor	89191865	85	10	13	26
342	tripeptidyl-peptidase 2	186972143	138	11	11	26
343	transmembrane protein 190 precursor	21040263	19	6	39	26
344	protein disulfide-isomerase A4 precursor	4758304	73	12	20	26
345	cytochrome b-c1 complex subunit 7 isoform 1	5454152	14	7	59	26
346	cathepsin G preproprotein	4503149	29	8	33	26
347	proteasome subunit alpha type-1 isoform 1	23110935	30	10	42	25
348	mucin-6 precursor	151301154	257	12	7.30	25
349	importin subunit beta-1	19923142	97	12	13	25
350	transmembrane emp24 domain-containing protein 7 precursor	32996709	25	7	33	25
351	protein-L-isoaspartate (D-aspartate) O-methyltransferase isoform 2	354983493	30	8	48	25
352	3-hydroxyisobutyrate dehydrogenase, mitochondrial precursor	23308751	35	9	33	25
353	eukaryotic initiation factor 4A-I isoform 1	4503529	46	4	14	25
354	uncharacterized protein C9orf9	33285006	19	7	64	25
355	rab GDP dissociation inhibitor beta isoform 1	6598323	51	10	26	25
356	histone H2A type 2-A	106775678	14	3	58	25
357	G-protein coupled receptor 64 isoform 2 precursor	119943116	110	7	9.40	24
358	ribonuclease inhibitor	42822872	50	7	15	24
359	26S protease regulatory subunit 10B	195539395	46	7	17	24
360	interferon-inducible GTPase 5	10257429	50	10	34	24
361	axonemal dynein light intermediate polypeptide 1	37595560	32	8	36	24
362	matrix metalloproteinase-9 preproprotein	74272287	78	10	19	24
363	nitric oxide synthase, endothelial isoform 1	40254422	133	9	10	24
364	enkurin	21450721	29	7	38	24
365	signal peptidase complex subunit 2	162417971	25	10	40	24
366	14-3-3 protein gamma	21464101	28	4	38	24
367	beta-centractin	11342680	42	3	37	24
368	very long-chain specific acyl-CoA dehydrogenase, mitochondrial isoform 2 precursor	76496475	68	11	22	23
369	proteasome subunit alpha type-6	23110944	27	9	43	23
370	brain acid soluble protein 1	30795231	23	7	46	23
371	acid ceramidase isoform b	189011546	47	8	16	23
372	poly (rC)-binding protein 1	222352151	37	6	19	23
373	sodium/potassium-transporting ATPase subunit alpha-4 isoform 1	153946397	114	9	11	23
374	6-phosphogluconate dehydrogenase, decarboxylating	40068518	53	9	17	23
375	ubiquitin carboxyl-terminal hydrolase 14 isoform b	82880645	52	8	14	23
376	glypican-4 precursor	21614525	62	6	16	23
377	gamma-glutamyltranspeptidase 1 precursor	73915090	61	8	13	23
378	histone H2A.V isoform 1	6912616	14	4	31	23
379	gelsolin isoform a precursor	4504165	86	8	12	23
380	uncharacterized protein C9orf24 isoform 1	21362074	30	6	24	23
381	cytochrome b-c1 complex subunit Rieske, mitochondrial	163644321	30	5	26	23
382	nucleoporin p54	26051237	55	9	23	23
383	26S proteasome non-ATPase regulatory subunit 8	156631005	40	7	26	23
384	lysozyme C precursor	4557894	17	6	45	23
385	adenosylhomocysteinase isoform 1	9951915	48	6	12	22
386	phosphatidylethanolamine-binding protein 1 preproprotein	4505621	21	5	48	22
387	CDGSH iron-sulfur domain-containing protein 1	8923930	12	6	53	22
388	casein kinase II subunit alpha isoform a	29570791	45	7	31	22
389	malectin precursor	7661948	32	8	40	22
390	transmembrane and coiled-coil domain-containing protein 2	56847610	20	5	33	22
391	ES1 protein homolog, mitochondrial isoform la precursor	296531406	28	7	41	22
392	erythrocyte band 7 integral membrane protein isoform a	38016911	32	7	29	22
393	sperm acrosome membrane-associated protein 4 precursor	19424138	13	3	35	22

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Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
394	membrane-associated progesterone receptor component 2	291621647	26	5	24	22
395	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10	4758774	21	6	35	22
396	cytochrome b5 isoform 1	41281768	15	4	43	22
397	importin-5	24797086	126	7	7.00	21
398	electron transfer flavoprotein subunit beta isoform 1	4503609	28	8	34	21
399	vesicle-associated membrane protein-associated protein A isoform 2	94721252	28	5	23	21
400	60S acidic ribosomal protein P2	4506671	12	7	76	21
401	transforming protein RhoA precursor	10835049	22	7	37	21
402	importin subunit alpha-2	4504897	58	8	25	21
403	ras-related protein Rab-3B	19923750	25	3	16	21
404	sperm-associated antigen 6 isoform 1	6912678	55	7	26	21
405	endoplasmic reticulum resident protein 44 precursor	52487191	47	5	21	21
406	annexin A7 isoform 1	4502111	50	6	13	21
407	ADP-ribosylation factor 4	4502205	21	4	48	21
408	transcription factor A, mitochondrial precursor	4507401	29	7	33	21
409	calpain small subunit 1	51599151	28	7	39	21
410	glycodelin precursor	65507501	21	4	28	21
411	annexin A13 isoform a	51895795	35	8	34	21
412	NADPH--cytochrome P450 reductase	127139033	77	6	15	21
413	proteasome subunit alpha type-2	4506181	26	7	47	20
414	WD repeat-containing protein 16 isoform b	124028512	68	9	16	20
415	beta-lactamase-like protein 2	7705793	33	8	35	20
416	prenylcysteine oxidase 1 precursor	166795301	57	8	21	20
417	gamma-glutamyl hydrolase precursor	4503987	36	7	31	20
418	nuclear pore complex protein Nup93 isoform 1	208609990	93	10	18	20
419	dynein heavy chain 8, axonemal	332688227	539	11	2.60	20
420	extracellular matrix protein 1 isoform 3 precursor	322302700	64	6	14	20
421	heme-binding protein 2	7657603	23	4	20	20
422	lysozyme-like protein 4 precursor	21389465	16	4	32	20
423	26S proteasome non-ATPase regulatory subunit 2	25777602	100	10	11	20
424	26S proteasome non-ATPase regulatory subunit 3	25777612	61	8	19	20
425	enoyl-CoA hydratase, mitochondrial	194097323	31	7	31	20
426	heme oxygenase 2	8051608	36	8	41	20
427	voltage-dependent anion-selective channel protein 1	4507879	31	5	19	20
428	coiled-coil domain-containing protein 19, mitochondrial precursor	81295816	66	6	10	20
429	histidine triad nucleotide-binding protein 1	4885413	14	6	72	20
430	proteasome subunit alpha type-7-like isoform 2	68303563	28	7	41	19
431	proteasome subunit beta type-6	23110925	25	5	34	19
432	prostasin preproprotein	4506153	36	5	22	19
433	ubiquitin thioesterase OTUB1	109148508	31	5	21	19
434	pyruvate dehydrogenase E1 component subunit alpha, testis- specific form, mitochondrial precursor	4885543	43	6	16	19
435	26S protease regulatory subunit 7 isoform 1	4506209	49	9	18	19
436	rho GDP-dissociation inhibitor 1 isoform a	4757768	23	4	23	19
437	calicin	169636428	67	7	14	19
438	transmembrane protein 89 precursor	56847630	18	4	28	19
439	40S ribosomal protein S18	11968182	18	6	37	19
440	26S proteasome non-ATPase regulatory subunit 14	5031981	35	7	45	19
441	keratin, type II cytoskeletal 8	4504919	54	3	15	19
442	eukaryotic translation initiation factor 3 subunit F	4503519	38	6	16	19
443	UMP-CMP kinase isoform a	7706497	26	5	22	19
444	phosphoglycerate mutase 1	4505753	29	5	47	19
445	aspartate aminotransferase, mitochondrial precursor	73486658	48	7	20	18
446	lysosome-associated membrane glycoprotein 1 precursor	112380628	45	4	9.80	18
447	CD59 glycoprotein preproprotein	187828910	14	5	26	18

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Supplementary Table 5: Contd...

<i>No</i>	<i>Protein</i>	<i>Accession number</i>	<i>Mass (kDa)</i>	<i>Peptides number</i>	<i>Sequence coverage (%)</i>	<i>Spectral counts</i>
448	ras-related protein Rab-27B	5729997	25	7	25	18
449	10 heat shock protein, mitochondrial	4504523	11	7	52	18
450	cytochrome c oxidase subunit 6B1	4502985	10	7	67	18
451	proteasome activator complex subunit 1 isoform 1	5453990	29	8	41	18
452	transmembrane emp24 domain-containing protein 4 precursor	33457308	26	6	32	18
453	dynein heavy chain 17, axonemal	256542310	509	9	2.40	18
454	serine/threonine-protein phosphatase PP1-beta catalytic subunit isoform 1	4506005	37	5	15	18
455	dnaJ homolog subfamily A member 2	5031741	46	7	27	18
456	ATP synthase subunit gamma, mitochondrial isoform L (liver) precursor	50345988	33	6	29	18
457	myeloblastin precursor	71361688	28	4	14	18
458	beta-actin-like protein 2	63055057	42	2	24	18
459	reticulocalbin-2 precursor	4506457	37	8	32	18
460	glucosidase 2 subunit beta isoform 1 precursor	48255889	59	5	9.70	17
461	alpha-1-antitrypsin precursor	50363217	47	7	23	17
462	proteasome subunit alpha type-7	4506189	28	3	42	17
463	stress-70 protein, mitochondrial precursor	24234688	74	8	19	17
464	copper homeostasis protein cutC homolog	148596990	29	5	25	17
465	hypoxanthine-guanine phosphoribosyltransferase	4504483	25	6	29	17
466	nicastrin precursor	24638433	78	6	10	17
467	tropomyosin alpha-3 chain isoform 2	24119203	29	5	32	17
468	prostate and testis expressed protein 1 precursor	19923082	14	5	40	17
469	solute carrier family 2, facilitated glucose transporter member 14	23592238	56	5	13	17
470	ras-related C3 botulinum toxin substrate 1 isoform Rac1b	9845509	23	6	21	17
471	NME1-NME2 protein	66392203	30	7	25	17
472	isochorismatase domain-containing protein 2, mitochondrial isoform 2	13376007	24	6	60	17
473	CD63 antigen isoform A	4502679	26	2	5.00	17
474	V-type proton ATPase catalytic subunit A	19913424	68	6	15	17
475	stomatin-like protein 2	7305503	39	7	30	17
476	ubiquitin carboxyl-terminal hydrolase isozyme L3	5174741	26	5	27	17
477	slit homolog 2 protein precursor	4759146	170	10	11	17
478	dynactin subunit 1 isoform 1	13259510	142	7	5.20	17
479	cytochrome c	11128019	12	7	57	17
480	glutamate carboxypeptidase 2 isoform 1	4758398	84	7	14	16
481	medium-chain specific acyl-CoA dehydrogenase, mitochondrial isoform b precursor	187960098	47	6	21	16
482	proteasome subunit beta type-1	4506193	26	6	35	16
483	proteasome subunit alpha type-4 isoform 1	4506185	29	6	31	16
484	kunitz-type protease inhibitor 3 precursor	189571689	10	3	29	16
485	programmed cell death 6-interacting protein isoform 1	22027538	96	5	4.80	16
486	translocon-associated protein subunit alpha precursor	169404009	32	3	12	16
487	erlin-1	154800487	39	5	28	16
488	26S proteasome non-ATPase regulatory subunit 12 isoform 1	4506221	53	8	24	16
489	nucleotide exchange factor SIL1 precursor	11968009	52	6	15	16
490	vesicle-associated membrane protein 3	4759300	11	5	41	16
491	40S ribosomal protein S15a	71772415	15	6	54	16
492	epoxide hydrolase 2	27597073	63	4	7.40	16
493	40S ribosomal protein S16	4506691	16	6	42	16
494	protein FAM154A	301129242	55	5	11	16
495	GTP-binding nuclear protein Ran	5453555	24	5	20	16
496	normal mucosa of esophagus-specific gene 1 protein	37694067	10	6	61	16
497	profilin-2 isoform a	16753215	15	4	44	16
498	dynein light chain Tctex-type 1	5730085	12	4	58	16
499	abhydrolase domain-containing protein 14B	14249382	22	4	22	16
500	uromodulin precursor	59850812	70	7	13	15

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Supplementary Table 5: Contd...

<i>No</i>	<i>Protein</i>	<i>Accession number</i>	<i>Mass (kDa)</i>	<i>Peptides number</i>	<i>Sequence coverage (%)</i>	<i>Spectral counts</i>
501	tomoregulin-2 precursor	12383051	41	5	13	15
502	ras-related protein Rab-7a	34147513	23	4	23	15
503	alanyl-tRNA editing protein Aarsd1 isoform 1	217416402	66	4	7.70	15
504	sodium/potassium-transporting ATPase subunit alpha-2 proprotein	4502271	112	2	8.40	15
505	translin	4759270	26	7	38	15
507	coiled-coil-helix-coiled-coil-helix domain-containing protein 3, mitochondrial precursor	8923390	26	5	17	15
508	40S ribosomal protein S2	15055539	31	6	21	15
509	pyruvate dehydrogenase protein X component, mitochondrial isoform 2	203098816	51	6	13	15
510	retinol dehydrogenase 11 isoform 1 precursor	166795268	35	5	21	15
511	myotrophin	21956645	13	5	72	15
512	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5	4826848	13	4	40	15
513	arachidonate 15-lipoxygenase B isoform d	85067501	76	6	8.70	15
514	tektin-5	21389569	56	7	18	14
515	proteasome subunit beta type-4	22538467	29	5	28	14
516	enoyl-CoA delta isomerase 1, mitochondrial isoform 2 precursor	295842266	31	4	16	14
517	NADH-cytochrome b5 reductase 2	47778923	31	6	31	14
518	endoplasmic reticulum-Golgi intermediate compartment protein 3 isoform a	38327615	44	7	23	14
519	hornerin	57864582	282	5	3.90	14
520	ras-related protein Rab-5C isoform a	41393614	23	6	28	14
521	40S ribosomal protein S3	15718687	27	5	21	14
522	histone H2A-Bbd type 2/3	63029935	13	4	54	14
523	myosin-VI	92859701	149	8	6.80	14
524	phosphoglycerate mutase 2	50593010	29	4	20	14
525	uncharacterized protein C7orf61	51972226	24	3	18	14
526	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8	7657369	20	3	23	14
527	40S ribosomal protein S3a	4506723	30	5	23	14
528	lysyl-tRNA synthetase isoform 1	194272210	71	7	15	14
529	dnaJ homolog subfamily B member 8	23503241	26	4	27	14
530	isocitrate dehydrogenase [NAD] subunit beta, mitochondrial isoform a precursor	28178821	42	6	25	14
531	coiled-coil domain-containing protein 63	22749217	66	7	17	14
532	45 calcium-binding protein isoform 2 precursor	18699732	42	4	12	14
533	spermatogenesis-associated protein 19, mitochondrial precursor	28376652	19	3	24	14
534	endoplasmic reticulum-Golgi intermediate compartment protein 1	72534712	33	5	23	14
535	72 type IV collagenase isoform a preproprotein	11342666	74	3	6.80	14
536	ATP synthase subunit e, mitochondrial	6005717	8	3	51	14
537	15 selenoprotein isoform 1 precursor	42741648	18	5	27	14
538	60S ribosomal protein L23	4506605	15	5	39	14
539	superoxide dismutase [Mn], mitochondrial isoform A precursor	67782305	25	5	27	13
540	aspartyl aminopeptidase	156416028	53	5	17	13
541	ferritin heavy chain	56682959	21	5	37	13
542	leukocyte surface antigen CD47 isoform 1 precursor	4502673	35	2	5.90	13
543	receptor expression-enhancing protein 6	19923919	21	4	22	13
544	protein ERGIC-53 precursor	5031873	58	5	13	13
545	dnaJ homolog subfamily B member 11 precursor	7706495	41	6	17	13
546	lactadherin isoform a preproprotein	167830475	43	6	20	13
547	fatty acid-binding protein, epidermal	4557581	15	5	57	13
548	destrin isoform a	5802966	19	3	24	13
549	bifunctional aminoacyl-tRNA synthetase	62241042	171	8	3.60	13
550	dynactin subunit 2	5453629	45	7	25	13
551	cAMP-dependent protein kinase catalytic subunit alpha isoform 2	46909584	40	3	8.70	13
552	casein kinase II subunit beta	23503295	25	6	45	13
553	semaphorin-3C precursor	5454048	85	3	6.10	13
554	izumo sperm-egg fusion protein 2 precursor	63999117	25	4	14	13
555	large proline-rich protein BAG6 isoform a	149158692	119	7	5.20	13
556	coiled-coil domain-containing protein 147	56961680	103	6	8.10	13

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Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
557	programmed cell death protein 6	7019485	22	5	31	13
558	ran-specific GTPase-activating protein	4506407	23	3	15	13
559	40S ribosomal protein S4, X isoform X isoform	4506725	30	5	18	13
560	uncharacterized protein C1orf194	171916088	18	4	32	13
561	RPS10-NUDT3 protein	321117084	33	4	21	13
562	proteasome subunit beta type-7 proprotein	4506203	30	5	24	12
563	protein NipSnap homolog 3A	22267436	28	4	23	12
564	hydroxyacylglutathione hydrolase, mitochondrial isoform 1 precursor	94538322	34	6	28	12
565	homogentisate 1,2-dioxygenase	115527117	50	6	21	12
566	F-actin-capping protein subunit beta isoform 1	4826659	31	4	21	12
567	delta (3,5)-Delta (2,4)-dienoyl-CoA isomerase, mitochondrial precursor	70995211	36	6	25	12
568	thioredoxin isoform 1	50592994	12	4	43	12
569	EF-hand domain-containing family member C2	31542743	87	4	4.30	12
570	ATP synthase subunit g, mitochondrial	51479156	11	5	53	12
571	EF-hand calcium-binding domain-containing protein 6 isoform a	38570107	173	5	3.40	12
572	cadherin-1 preproprotein	4757960	97	3	4.80	12
573	short-chain specific acyl-CoA dehydrogenase, mitochondrial precursor	4557233	44	6	23	12
574	NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial precursor	222080062	27	4	22	12
575	dehydrogenase/reductase SDR family member 7 precursor	7706318	38	6	23	12
576	tetratricopeptide repeat protein 25	13899233	77	6	7.30	12
577	ropporin-1-like protein	17572807	26	5	28	12
578	acrosome formation-associated factor isoform 1	239582757	33	4	20	12
579	UPF0468 protein C16orf80	8392875	23	3	19	12
580	transcription elongation factor B polypeptide 2 isoform b	46276893	18	4	28	12
581	transcription elongation factor B polypeptide 1 isoform a	325652033	12	6	59	12
582	retinoid-inducible serine carboxypeptidase precursor	11055992	51	4	6.90	12
583	3-mercaptopyruvate sulfurtransferase isoform 2	61835204	33	4	23	12
584	platelet-activating factor acetylhydrolase IB subunit beta isoform a	4505585	26	2	12	12
585	apolipoprotein A-IV precursor	71773110	45	6	18	12
586	thioredoxin domain-containing protein 17	14249348	14	3	27	12
587	60S ribosomal protein L14	78000181	23	3	16	12
588	lysozyme-like protein 6 precursor	9966905	17	3	42	12
589	acyl-coenzyme A thioesterase 13 isoform 2	231567183	12	4	45	12
590	thiosulfate sulfurtransferase/rhodanese-like domain-containing protein 1 isoform 1	163965377	13	3	44	12
591	renin receptor precursor	15011918	39	3	17	12
592	splicing factor 3A subunit 3	5803167	59	4	16	12
593	neutrophil elastase preproprotein	4503549	29	5	33	12
594	zinc-alpha-2-glycoprotein precursor	4502337	34	5	23	11
595	mesencephalic astrocyte-derived neurotrophic factor precursor	299523086	21	5	32	11
596	serine/threonine-protein phosphatase 2A 65 regulatory subunit A alpha isoform	21361399	65	5	10	11
597	adenylyl cyclase-associated protein 1	5453595	52	4	7.60	11
598	ecto-ADP-ribosyltransferase 3 isoform a precursor	194097380	44	4	9.80	11
599	alpha-1-antichymotrypsin precursor	50659080	48	7	20	11
600	testis-specific H1 histone	32401437	28	3	9.40	11
601	D-dopachrome decarboxylase	4503291	13	4	37	11
602	beta-defensin 129 precursor	18250304	20	3	16	11
603	histidine triad nucleotide-binding protein 2, mitochondrial precursor	14211923	17	3	27	11
604	lysosome membrane protein 2 isoform 1 precursor	5031631	54	3	11	11
605	alpha-soluble NSF attachment protein	47933379	33	5	25	11
606	acyl carrier protein, mitochondrial precursor	4826852	17	4	21	11
607	C-Myc-binding protein	57242777	12	4	55	11
608	ribonuclease-like protein 13 precursor	59276062	18	3	18	11
609	vimentin	62414289	54	6	16	11
610	lysosomal alpha-glucosidase preproprotein	119393891	105	5	3.40	11

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Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
611	cathepsin F precursor	6042196	53	5	11	11
612	leucine zipper transcription factor-like protein 1	9966793	35	3	8.70	11
613	dnaJ homolog subfamily B member 13	39204547	36	6	15	11
614	tryptophanyl-tRNA synthetase, cytoplasmic isoform b	47419918	49	4	16	11
615	signal peptidase complex catalytic subunit SEC11A	7657609	21	4	31	11
616	sulfatase-modifying factor 2 isoform e precursor	194248090	39	4	14	11
617	aflatoxin B1 aldehyde reductase member 2	41327764	40	4	11	11
618	dynactin subunit 3 isoform 1	6005745	21	4	19	11
619	cytochrome c oxidase subunit 6C proprotein	4758040	9	3	37	11
620	heat shock 70 protein 13 precursor	48928056	52	5	12	11
621	60S ribosomal protein L11 isoform 1	15431290	20	3	17	11
622	40S ribosomal protein S9	14141193	23	6	25	11
623	ADP-ribosyl cyclase 1	38454326	34	2	8.70	11
624	40S ribosomal protein S19	4506695	16	4	22	11
625	4-trimethylaminobutyraldehyde dehydrogenase	115387104	56	4	4.60	10
626	galectin-3-binding protein precursor	5031863	65	4	8.20	10
627	proteasome subunit beta type-3	22538465	23	5	39	10
628	receptor expression-enhancing protein 5	115430112	21	3	15	10
629	26S proteasome non-ATPase regulatory subunit 6	7661914	46	6	18	10
630	cytochrome b-c1 complex subunit 6, mitochondrial	83627705	11	4	58	10
631	metalloproteinase inhibitor 1 precursor	4507509	23	4	32	10
632	ras-related protein Rap-1b isoform 1 precursor	7661678	21	3	18	10
633	titin isoform N2-A	291045225	3713	6	0.06	10
634	40S ribosomal protein S25	4506707	14	4	24	10
635	desmoplakin isoform I	58530840	332	5	1.60	10
636	ATP synthase subunit delta, mitochondrial precursor	50345991	17	3	42	10
637	atlastin-3	45827806	61	5	20	10
638	stress-induced-phosphoprotein 1	5803181	63	4	9.00	10
639	ras-related protein Ral-B	4506405	23	3	26	10
640	2-oxoglutarate dehydrogenase, mitochondrial isoform 3 precursor	259013553	116	5	3.50	10
641	thioredoxin domain-containing protein 3	148839372	67	6	13	10
642	mitochondrial import receptor subunit TOM22 homolog	9910382	16	4	58	10
643	EF-hand domain-containing protein 1 isoform 1	156616292	74	5	4.70	10
644	ubiquitin thioesterase OTUB2	12962939	27	5	30	10
645	nucleosome assembly protein 1-like 4	5174613	43	3	9.60	10
646	60S ribosomal protein L18	4506607	22	3	20	10
647	40S ribosomal protein S20 isoform 1	226246671	16	3	19	10
648	protein FAM162A	49355721	17	3	25	10
649	astrocytic phosphoprotein PEA-15	4505705	15	3	37	10
650	grancalcin	6912388	24	3	12	10
651	complement component 1 Q subcomponent-binding protein, mitochondrial precursor	4502491	31	4	22	9
652	proteasome subunit beta type-2 isoform 1	4506195	23	3	23	9
653	ubiquitin carboxyl-terminal hydrolase 5 isoform 2	148727247	93	3	4.90	9
654	40S ribosomal protein S12	14277700	15	3	20	9
655	coiled-coil domain-containing protein 105	226492892	57	5	10	9
656	sperm acrosome-associated protein 5 precursor	120952755	18	3	26	9
657	signal peptidase complex subunit 3	11345462	20	3	18	9
658	40S ribosomal protein S8	4506743	24	4	25	9
659	NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial precursor	4758792	14	3	40	9
660	BPI fold-containing family A member 3 isoform 1 precursor	109627654	28	5	31	9
661	60S ribosomal protein L7a	4506661	30	3	15	9
662	calcium-binding and spermatid-specific protein 1	90652863	43	3	12	9

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Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
663	F-actin-capping protein subunit alpha-1	5453597	33	4	10	9
664	transmembrane emp24 domain-containing protein 2 precursor	5803149	23	3	24	9
665	eukaryotic translation elongation factor 1 epsilon-1 isoform 1	4758862	20	4	35	9
666	COP9 signalosome complex subunit 8 isoform 1	5729779	23	2	17	9
667	carbonic anhydrase 2	4557395	29	4	20	9
668	dnaJ homolog subfamily B member 6 isoform b	4885495	27	2	12	9
669	NADH-cytochrome b5 reductase 3 isoform 2	193794826	32	4	31	9
670	sialidase-1 precursor	4557791	45	2	5.50	9
671	macrophage-capping protein	63252913	38	4	12	9
672	mammaglobin-B precursor	4505171	11	3	32	9
673	60S ribosomal protein L35a	16117791	13	4	16	9
674	metalloproteinase inhibitor 3 precursor	4507513	24	4	19	9
675	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2 isoform 1	4505355	11	3	31	9
676	phosphoglycolate phosphatase	108796653	34	3	9.70	9
677	14 phosphohistidine phosphatase isoform 3	24475861	14	3	38	9
678	spectrin alpha chain, brain isoform 2	154759259	285	5	3.00	9
679	brain protein 44	219521872	14	4	41	9
680	nicotinamide phosphoribosyltransferase precursor	5031977	56	5	12	9
681	prolargin precursor	4506041	44	4	12	9
682	epoxide hydrolase 1 precursor	209862837	53	6	12	9
683	drebrin-like protein isoform c	171906575	49	4	12	9
684	60S ribosomal protein L18a	11415026	21	4	26	9
685	ectonucleotide pyrophosphatase/phosphodiesterase family member 3	111160296	100	4	7.80	8
686	serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform	4506017	36	3	16	8
687	tropomyosin alpha-4 chain isoform 1	223555975	33	5	11	8
688	kinesin-1 heavy chain	4758648	110	5	3.50	8
689	glycerophosphodiester phosphodiesterase 1	7706617	38	3	11	8
690	lysosome-associated membrane glycoprotein 2 isoform C precursor	169790833	45	3	7.10	8
691	synaptophysin-like protein 1 isoform a	5803185	29	3	15	8
692	ras-related protein Ral-A precursor	33946329	24	3	13	8
693	cytochrome b5 type B	83921614	17	5	52	8
694	vitronectin precursor	88853069	54	3	8.60	8
695	glutathione S-transferase omega-2 isoform 1	38016131	28	3	16%	8
696	endophilin-B1 isoform 2	331284170	44	5	11	8
697	macrophage migration inhibitory factor	4505185	12	3	36	8
698	carcinoembryonic antigen-related cell adhesion molecule 6 precursor	40255013	37	3	17	8
699	26S proteasome non-ATPase regulatory subunit 1 isoform 1	25777600	106	4	5.40	8
700	trafficking protein particle complex subunit 3	7656926	20	3	20	8
701	COP9 signalosome complex subunit 4	38373690	46	3	11	8
702	septin-7 isoform 2	148352329	51	3	11	8
703	Sjogren syndrome nuclear autoantigen 1	189571687	14	3	21	8
704	growth arrest-specific protein 6 isoform 1 precursor	4557617	75	5	12	8
705	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial isoform 1 precursor	20149568	51	3	12	8
706	abhydrolase domain-containing protein 10, mitochondrial precursor	8923001	34	4	21	8
707	calmin	19923599	112	4	7.00	8
708	dnaJ homolog subfamily B member 1	5453690	38	4	14	8
709	A disintegrin and metalloproteinase with thrombospondin motifs 1 preproprotein	50845384	105	3	4.60	8
710	lipase member I	39752679	55	3	6.70	8
711	proteasome activator complex subunit 2	30410792	27	3	18	8
712	agouti-related protein precursor	4501995	14	2	14	8
713	ras-related protein Rab-27A	34485709	25	3	16	8
714	dynein light chain roadblock-type 2	18702323	11	2	39	8
715	vesicle-trafficking protein SEC22b precursor	94429050	25	2	12	8
716	ethanolamine-phosphate cytidylyltransferase isoform 1	296841136	46	4	14	8

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Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
717	60S ribosomal protein L30	4506631	13	4	51	8
718	metaxin-2	5729937	30	5	22	8
719	prostate and testis expressed protein 4	221554530	11	3	31	8
720	junction plakoglobin	12056468	82	4	5.40	8
721	left-right determination factor 1 preproprotein	10337603	41	3	10	8
722	thioredoxin-like protein 1	4759274	32	3	11	8
723	reticulocalbin-1 precursor	4506455	39	4	16	8
724	basement membrane-specific heparan sulfate proteoglycan core protein precursor	126012571	469	3	1.10	7
725	nuclear pore membrane glycoprotein 210 precursor	27477134	205	3	2.00	7
726	zymogen granule protein 16 homolog B precursor	94536866	23	3	17	7
727	calcium/calmodulin-dependent protein kinase type II subunit delta isoform 2	26667189	54	4	5.00	7
728	serine/threonine-protein phosphatase with EF-hands 1 isoform 1b	23312374	73	3	8.00	7
729	succinyl-CoA ligase [ADP-forming] subunit beta, mitochondrial precursor	11321583	50	3	7.80	7
730	basigin isoform 2 precursor	38372925	29	3	17	7
731	prostate and testis expressed protein 2 precursor	47086459	13	3	28	7
732	proteasome activator complex subunit 4	163644283	211	4	3.60	7
733	cytosolic 5'-nucleotidase 1B isoform 4	312283642	71	5	12	7
734	dermcidin preproprotein	16751921	11	3	23	7
735	disintegrin and metalloproteinase domain-containing protein 30 preproprotein	31881770	89	3	3.80	7
736	adenylate kinase 2, mitochondrial isoform a	4502013	26	4	28	7
737	acyl-protein thioesterase 1	5453722	25	3	17	7
738	thioredoxin-dependent peroxide reductase, mitochondrial isoform b	32483377	26	2	9.70	7
739	transmembrane emp24 domain-containing protein 1 precursor	5803040	25	3	18	7
740	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial precursor	4505371	24	3	15	7
741	adenylate kinase 8	22749187	55	4	10	7
742	uncharacterized protein C9orf171	46409466	36	3	10	7
743	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7	10764847	16	3	19	7
744	ras-related protein Rab-5B isoform 1	354725902	24	2	23	7
745	S-formylglutathione hydrolase	33413400	31	4	28	7
746	GTP-binding protein SAR1a	217416369	22	3	15	7
747	translocon-associated protein subunit delta isoform 3 precursor	325301078	20	2	13	7
748	B-cell receptor-associated protein 31 isoform a	213511508	35	4	14	7
749	probable ergosterol biosynthetic protein 28	6005719	16	3	26	7
750	beta-defensin 105 precursor	103485141	9	3	27	7
751	protein transport protein Sec61 subunit beta	5803165	10	3	38	7
752	chitinase domain-containing protein 1 isoform a	218083142	45	4	12	7
753	biglycan preproprotein	4502403	42	3	9.50	7
754	dnaJ homolog subfamily C member 3 precursor	5453980	58	3	10	7
755	cytochrome c oxidase subunit 6A1, mitochondrial precursor	17999528	12	2	43	7
756	eukaryotic translation initiation factor 3 subunit A	4503509	167	4	2.90	7
757	coatamer subunit epsilon isoform a	31542319	34	3	16	7
758	epididymal secretory protein E1 precursor	5453678	17	3	24	6
759	fructose-1,6-bisphosphatase 1	189083692	37	2	8.30	6
760	complement decay-accelerating factor isoform 2 precursor	168693643	49	3	9.10	6
761	general vesicular transport factor p115	4505541	108	3	3.00	6
762	peptidase M20 domain-containing protein 2	58082085	48	3	13	6
763	ferritin light chain	20149498	20	2	18	6
764	cathepsin D preproprotein	4503143	45	3	12	6
765	malate dehydrogenase, cytoplasmic isoform 1	312283701	39	4	16	6
766	alpha-mannosidase 2C1	46852164	116	4	5.10	6
767	carboxypeptidase M precursor	6631081	51	2	3.80	6
768	uncharacterized protein C6orf81	31542280	41	2	7.60	6
769	fumarylacetoacetate hydrolase domain-containing protein 2B	40786394	35	2	11	6

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Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
770	CD9 antigen	4502693	25	2	9.60	6
771	carboxypeptidase D isoform 1 precursor	22202611	153	4	4.10	6
772	disintegrin and metalloproteinase domain-containing protein 29 preproprotein	73765552	93	2	2.90	6
773	nuclear pore complex protein Nup205	57634534	228	4	2.20	6
774	prostaglandin-H2 D-isomerase precursor	32171249	21	3	21	6
775	prostaglandin E synthase 3	23308579	19	2	17	6
776	aspartyl-tRNA synthetase, cytoplasmic	45439306	57	3	6.80	6
777	thioredoxin domain-containing protein 2 isoform 2	148727319	60	2	3.30	6
778	protein ALEX XLas	117938759	111	3	4.60	6
779	cystatin-B	4503117	11	2	24	6
780	sortilin isoform 1 preproprotein	17149834	92	4	5.80	6
781	elongation factor 1-beta	4503477	25	3	30	6
782	adenylate kinase 7	148727333	83	3	3.70	6
783	60S ribosomal protein L12	4506597	18	2	15	6
784	BAG family molecular chaperone regulator 5 isoform b	6631077	51	3	11	6
785	ATPase inhibitor, mitochondrial isoform 1 precursor	7705927	12	3	18	6
786	tripeptidyl-peptidase 1 preproprotein	5729770	61	3	11	6
787	clathrin light chain A isoform a	4502899	24	3	17	6
788	antileukoproteinase precursor	4507065	14	2	15	6
789	phospholipase A2, membrane associated precursor	239915991	16	2	18	6
790	ATP5J2-PTCD1 fusion protein	311893396	84	2	3.20	6
791	prenylated Rab acceptor protein 1	222144309	21	2	16	6
792	actin-like protein 9	194097462	46	3	11	6
793	bifunctional purine biosynthesis protein PURH	20127454	65	4	7.30	6
794	arfaptin-1 isoform 1	71040094	42	2	4.80	6
795	profilin-3	71274140	15	3	35	6
796	cystatin-C precursor	4503107	16	3	32	6
797	beta-hexosaminidase subunit alpha preproprotein	189181666	61	3	9.30	6
798	60S ribosomal protein L7	15431301	29	4	20	6
799	apolipoprotein O precursor	13129148	22	3	19	6
800	protein CutA isoform 1	62198241	21	2	21	6
801	sperm-associated antigen 11B isoform A preproprotein	7706551	11	2	19	6
802	actin-related protein 2/3 complex subunit 4 isoform c	311771647	22	2	12	6
803	prostaglandin reductase 1 isoform 1	226059133	36	3	7.60	6
804	brain protein 44-like protein 2	306922396	15	3	27	6
805	aquaporin-5	4502183	28	2	9.80	6
806	charged multivesicular body protein 4b	28827795	25	2	11	6
807	synaptogyrin-2	4759202	25	2	8.00	6
808	60S ribosomal protein L38	4506645	8	2	36	6
809	minor histocompatibility antigen H13 isoform 1	23308607	41	2	9.50	6
810	spectrin beta chain, brain 1 isoform 1	112382250	275	5	3.00	6
811	transgelin-2	4507357	22	3	16	6
812	60S ribosomal protein L27a	4506625	17	2	16	6
813	RPL17-C18orf32 protein isoform 1	313569822	26	2	11	6
814	protein S100-A12	5032059	11	2	23	6
815	sulfotransferase family cytosolic 2B member 1 isoform a	31563388	40	3	10	6
816	peptidyl-prolyl cis-trans isomerase FKBP11 isoform 1 precursor	7706131	22	3	26	6
817	prostaglandin E synthase	4758910	17	3	14	6
818	cylicin-2	4557509	39	2	8.30	6
819	superoxide dismutase [Cu-Zn]	4507149	16	2	32	5
820	inositol monophosphatase 1 isoform 2	221625487	37	3	14	5
821	calpain-1 catalytic subunit	311893363	82	3	5.90	5
822	proactivator polypeptide isoform a preproprotein	11386147	58	2	4.00	5

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Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
823	beta-microseminoprotein isoform a precursor	4557036	13	2	8.80	5
824	60S ribosomal protein L5	14591909	34	2	11	5
825	alpha-aminoadipic semialdehyde dehydrogenase isoform 2	319655561	55	2	10.00	5
826	histone H1.3	4885377	22	2	9.50	5
827	mRNA export factor	62739173	41	3	13	5
828	inorganic pyrophosphatase 2, mitochondrial isoform 1 precursor	29171702	38	3	10	5
829	LETM1 and EF-hand domain-containing protein 1, mitochondrial precursor	6912482	83	3	4.30	5
830	matrilin-2 isoform a precursor	62548860	107	2	3.20	5
831	ATP synthase subunit epsilon, mitochondrial	5901896	6	3	45	5
832	F-actin-capping protein subunit alpha-3	15277417	35	3	18	5
833	phospholipase A1 member A isoform 2 precursor	332688256	48	2	7.30	5
834	long-chain-fatty-acid--CoA ligase 6 isoform e	327412327	79	3	6.60	5
835	arginyl-tRNA synthetase, cytoplasmic	15149476	75	3	7.60	5
836	lysosomal Pro-X carboxypeptidase isoform 1 preproprotein	4826940	56	3	11	5
837	cell cycle control protein 50A isoform 1	8922720	41	3	8.00	5
838	protein NDRG3 isoform a	14165266	41	3	11	5
839	bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase (cyclizing)	20149621	59	2	5.70	5
840	EF-hand domain-containing protein KIAA0494	7662160	55	2	6.10	5
841	chloride intracellular channel protein 4	7330335	29	2	7.90	5
842	melanoma inhibitory activity protein 3 precursor	122891870	214	3	1.90	5
843	UPF0733 protein C2orf88	110349742	11	2	41	5
844	UPF0740 protein C1orf192	63029930	19	3	22	5
845	kinectin isoform a	33620775	156	3	2.40	5
846	nucleoporin NUP53	31982904	35	2	9.80	5
847	voltage-dependent calcium channel subunit alpha-2/delta-2 isoform c	291290994	130	3	3.50	5
848	EF-hand calcium-binding domain-containing protein 1 isoform a	13375787	24	2	13	5
849	puromycin-sensitive aminopeptidase	158937236	103	2	2.70	5
850	pro-cathepsin H preproprotein	23110955	37	2	8.40	5
851	actin-like protein 7A	5729720	49	4	18	5
852	retinal dehydrogenase 1	21361176	55	3	7.80	5
853	ADP-ribosylation factor-like protein 3	4757774	20	3	24	5
854	PREDICTED: hypothetical protein LOC728597	341914388	72	2	3.10	5
855	serine/threonine-protein phosphatase 2A activator isoform b	29725611	37	2	13	5
856	peptidase inhibitor 15 preproprotein	7705676	29	3	15	5
857	secretoglobin family 1D member 2 precursor	5729909	10	2	22	5
858	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8, mitochondrial precursor	4826854	22	2	11	5
859	40S ribosomal protein S7	4506741	22	2	18	5
860	protein S100-A6	7657532	10	2	17	5
861	uncharacterized protein C19orf18 precursor	22748999	24	2	9.80	5
862	inorganic pyrophosphatase	11056044	33	3	18	5
863	NADH dehydrogenase [ubiquinone] iron-sulfur protein 5	4758790	13	2	14	5
864	60S ribosomal protein L31 isoform 3	153252132	14	2	19	5
865	protein OS-9 isoform 1 precursor	5803109	76	2	4.90	5
866	eukaryotic translation initiation factor 3 subunit B	33239445	92	2	2.30	5
867	ras GTPase-activating-like protein IQGAP2	116089337	181	2	2.20	5
868	protein-glutamine gamma-glutamyltransferase 2 isoform a	39777597	77	2	4.20	5
869	eukaryotic translation initiation factor 3 subunit C	153791492	105	3	3.30	5
870	galectin-1	4504981	15	2	18	5
871	legumain preproprotein	56682962	49	2	4.60	5
872	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 4 isoform 1	6041669	15	2	22	5
873	transketolase	205277463	68	3	9.50	4
874	acylamino-acid-releasing enzyme	23510451	81	3	6.60	4
875	platelet-activating factor acetylhydrolase precursor	270133071	50	2	9.80	4

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Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
876	UPF0577 protein KIAA1324 precursor	38569482	111	2	2.10	4
877	apolipoprotein D precursor	4502163	21	2	9.50	4
878	prostate stem cell antigen preproprotein	289547757	12	2	25	4
879	alcohol dehydrogenase class-3	71565154	40	2	8.00	4
880	cystatin-S precursor	4503109	16	2	18	4
881	nitrilase homolog 1 isoform 3	297632348	34	2	7.40	4
882	alpha-1-acid glycoprotein 1 precursor	167857790	24	2	12	4
883	EGF-like repeat and discoidin I-like domain-containing protein 3 precursor	31317224	54	2	5.80	4
884	midkine precursor	4505135	16	2	17	4
885	plasma glutamate carboxypeptidase precursor	7706387	52	2	4.20	4
886	kelch-like protein 10	148664209	69	2	3.30	4
887	nuclear transport factor 2	5031985	14	2	17	4
888	S-phase kinase-associated protein 1 isoform b	25777713	19	2	15	4
889	multifunctional protein ADE2 isoform 2	5453539	47	2	6.10	4
890	desmoglein-1 preproprotein	119703744	114	3	3.90	4
891	integrin beta-1 isoform 1D precursor	19743819	89	2	2.60	4
892	heat shock 70 protein 4	38327039	94	2	3.20	4
893	aldehyde dehydrogenase family 1 member A3	153266822	56	2	4.70	4
894	S-adenosylmethionine synthase isoform type-2	5174529	44	2	7.10	4
895	fibrous sheath-interacting protein 2	297206791	790	2	0.31	4
896	phosphate carrier protein, mitochondrial isoform b precursor	47132595	40	2	5.30	4
897	asparaginyl-tRNA synthetase, cytoplasmic	4758762	63	2	3.60	4
898	glutathione S-transferase omega-1 isoform 1	4758484	28	2	7.50	4
899	STE20/SPS1-related proline-alanine-rich protein kinase	115430252	59	3	11	4
900	eukaryotic translation initiation factor 3 subunit M	23397429	43	2	8.60	4
901	40S ribosomal protein SA	59859885	33	2	14	4
902	translin-associated protein X	5174731	33	2	10	4
903	enoyl-CoA delta isomerase 2, mitochondrial isoform 2	260274832	44	2	9.90	4
904	HD domain-containing protein 2	116875826	23	2	15	4
905	eukaryotic translation initiation factor 3 subunit I	4503513	37	2	6.50	4
906	leucine-rich repeat-containing protein 23 isoform a	42542396	40	3	16	4
907	cancer/testis antigen 47A	121949786	30	2	7.60	4
908	mitochondrial import receptor subunit TOM34	21361356	35	3	13	4
909	serine protease HTRA1 precursor	4506141	51	2	8.50	4
910	transcriptional activator protein Pur-alpha	5032007	35	2	11	4
911	integral membrane protein 2B	11527402	30	2	8.60	4
912	intraflagellar transport protein 27 homolog isoform 2	6857824	20	2	13	4
913	sperm-associated antigen 11B isoform D preproprotein	126131097	15	2	17	4
914	dynein intermediate chain 1, axonemal	6912338	79	2	3.60	4
915	prohibitin-2 isoform 2	6005854	33	2	8.40	4
916	60S ribosomal protein L24	4506619	18	2	13	4
917	glycyl-tRNA synthetase precursor	116805340	83	3	4.90	4
918	ATP synthase-coupling factor 6, mitochondrial isoform a precursor	18644883	13	2	27	4
919	thioredoxin domain-containing protein 12 precursor	7705696	19	2	14	4
920	coiled-coil domain-containing protein 42A isoform 1	226494053	38	2	8.90	4
921	L-amino-acid oxidase isoform 2 precursor	27477089	65	3	5.80	4
922	vesicle-associated membrane protein 8	14043026	11	2	23	4
923	40S ribosomal protein S11	4506681	18	2	11	4
924	cytochrome b-c1 complex subunit 9 isoform a	41281885	7	2	38	4
925	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 11, mitochondrial isoform 1	20127561	18	2	11	4
926	neuropilin-1 isoform a precursor	182508169	103	2	3.10	4
927	quinone oxidoreductase isoform a	13236495	35	3	12	4
928	60S ribosomal protein L13 isoform 1	15431295	24	2	9.50	4
929	sorcin isoform b	38679884	20	2	11	4
930	glutaredoxin-related protein 5, mitochondrial precursor	42516576	17	2	14	4

Contd...

Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
931	kita-kyushu lung cancer antigen 1	63025190	13	2	19	4
932	nucleobindin-1 precursor	20070228	54	2	6.30	4
933	putative peptidyl-tRNA hydrolase PTRHD1	61966781	16	2	25	4
934	ADP-ribosylation factor 6	4502211	20	2	12	4
935	filaggrin-2	62122917	248	2	1.30	4
936	40S ribosomal protein S13	4506685	17	2	8.60	4
937	outer dense fiber protein 1	194248060	28	2	6.40	4
938	tropomodulin-3	7657649	40	2	6.00	4
939	estradiol 17-beta-dehydrogenase 12	7705855	34	3	14	4
940	metalloreductase STEAP4 isoform 1	328887949	52	2	8.90	4
941	endophilin-A3	223468657	39	2	7.20	4
942	uncharacterized protein C17orf47	332801054	63	2	5.10	4
943	tRNA methyltransferase 112 homolog	7705477	14	2	22	4
944	lymphocyte antigen 6K isoform 1 precursor	237820711	19	2	14	4
945	catalase .	4557014	60	2	6.80	3
946	ester hydrolase C11orf54	21361495	29	2	7.90	3
947	calmegin precursor	4758004	70	2	3.40	3
948	serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform isoform 2	194688147	58	3	6.10	3
949	deoxyguanosine kinase, mitochondrial isoform a precursor	18426967	32	3	17	3
950	neurofilament heavy polypeptide	32483416	112	2	2.50	3
951	transketolase-like protein 1 isoform b	225637461	65	2	5.10	3
952	sarcoplasmic/endoplasmic reticulum calcium ATPase 2 isoform b	24638454	115	2	2.50	3
953	acetyl-CoA acetyltransferase, cytosolic	148539872	41	2	8.60	3
954	plasma membrane calcium-transporting ATPase 4 isoform 4b	48255957	134	3	3.80	3
955	exportin-7	154448892	124	3	3.40	3
956	coronin-1B	14149734	54	2	3.90	3
957	disintegrin and metalloproteinase domain-containing protein 7 preproprotein	114326453	86	2	4.00	3
958	dynein light chain 1, axonemal isoform 1	164607156	22	3	16	3
959	eukaryotic translation initiation factor 6 isoform a	4504771	27	2	9.80	3
960	mitochondrial dicarboxylate carrier	20149598	31	2	11	3
961	protein Niban	16757970	103	2	2.80	3
962	deoxyuridine 5'-triphosphate nucleotidohydrolase, mitochondrial isoform 1 precursor	70906441	27	2	12	3
963	diablo homolog, mitochondrial isoform 1 precursor	9845297	27	2	9.60	3
964	26S proteasome non-ATPase regulatory subunit 4	5292161	41	2	7.70	3
965	UBX domain-containing protein 11 isoform 1	116734681	54	2	5.70	3
966	UPF0587 protein C1orf123	8923541	18	2	25	3
967	thiamine-triphosphatase	13236577	26	2	18	3
968	transmembrane protein 126A isoform 1	14150017	22	2	24	3
969	myeloid-associated differentiation marker	19923903	35	2	10	3
970	NAD-dependent malic enzyme, mitochondrial isoform 1 precursor [Homo	4505145	65	2	9.40	3
971	protein TSC21	22749357	21	2	13	3
972	cytochrome b5 domain-containing protein 1	40255060	27	2	16	3
973	NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial precursor	4505369	20	2	14	3
974	beta-defensin 106 precursor	22748611	7	2	23	3
975	uncharacterized protein C2orf74 isoform 1	221139892	22	2	11	3
976	ubiquitin carboxyl-terminal hydrolase 7	150378533	128	3	4.40	3
977	6-phosphogluconolactonase	6912586	28	2	16	3
978	glutathione peroxidase 1 isoform 1	41406084	22	2	17	3
979	early endosome antigen 1	55770888	162	2	1.80	3
980	40S ribosomal protein S24 isoform a	14916501	15	2	21	3
981	methylosome protein 50	13129110	37	2	8.50	3
982	COP9 signalosome complex subunit 7a	7705330	30	3	15	3
983	guanine nucleotide-binding protein G (I)/G (S)/G (T) subunit beta- 2	20357529	37	2	6.20	3

Contd...

Supplementary Table 5: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
984	actin-related protein 2/3 complex subunit 5	5031593	16	2	13	3
985	6-phosphofructokinase, muscle type isoform 1	266453619	93	2	3.50	3
986	choline-phosphate cytidylyltransferase A	31543385	42	2	9.00	3
987	40S ribosomal protein S21	4506699	9	2	23	3
988	geranylgeranyl pyrophosphate synthase	83700220	35	2	13	3
989	UDP-N-acetylhexosamine pyrophosphorylase	156627575	57	2	5.70	3
990	resistin precursor	301129180	11	2	24	3
991	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3B	30578410	94	2	2.50	3
992	60S ribosomal protein L36	16117796	12	3	22	3
993	26S proteasome non-ATPase regulatory subunit 10 isoform 1	4506217	24	2	6.60	3
994	HIG1 domain family member 1A, mitochondrial isoform b [Homo	153085463	10	2	43	3
995	transmembrane protein 14C .	259089438	12	2	41	3
996	V-type proton ATPase subunit F isoform 1	20357547	13	2	30	3
997	thioredoxin reductase 2, mitochondrial precursor	22035672	57	2	5.50	2
998	talin-1	223029410	270	2	1.40	2
999	cell division control protein 42 homolog isoform 1	4757952	21	2	14	2
1000	actin-related protein 2/3 complex subunit 2	23238211	34	2	7.70	2
1001	phosphoacetylglucosamine mutase isoform 1	315707006	63	2	9.50	2
1002	dnaJ homolog subfamily A member 4 isoform 2	194328760	45	2	9.10	2
1003	methionyl-tRNA synthetase, cytoplasmic	14043022	101	2	2.40	2
1004	beta-hexosaminidase subunit beta preproprotein	4504373	63	2	5.20	2
1005	nuclear pore glycoprotein p62	24497605	53	2	6.70	2
1006	protein FAM71A	282721094	63	2	3.70	2
1007	V-type proton ATPase subunit B, brain isoform	19913428	57	2	5.10	2
1008	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3A	22749415	81	2	2.80	2
1009	histidine triad nucleotide-binding protein 3	189217863	20	2	11	2
1010	adenylate kinase domain-containing protein 1 isoform 1	237858799	221	2	0.99	2
1011	coiled-coil domain-containing protein 151	117553613	69	2	4.20	2
1012	60S ribosomal protein L4	16579885	48	2	4.70	2
1013	actin-related protein 3	5031573	47	2	7.90	2
1014	serine/threonine-protein phosphatase 6 catalytic subunit isoform a	183603929	39	2	7.00	2
1015	synaptosomal-associated protein 29	4759154	29	2	8.50	2
1016	transcription factor SOX-11	4507161	47	2	10.00	2
1017	arf-GAP with SH3 domain, ANK repeat and PH domain- containing protein 3 isoform a	19923540	99	2	1.60	2
1018	syntaxin-binding protein 2 isoform a	188528689	66	2	4.70	2
1019	microfibril-associated glycoprotein 4 isoform 2 precursor	23111005	29	2	17	2
1020	meiosis-specific nuclear structural protein 1	8922950	61	2	5.30	2
1021	staphylococcal nuclease domain-containing protein 1	77404397	102	2	2.60	2
1022	disintegrin and metalloproteinase domain-containing protein 10 precursor	4557251	84	2	2.50	2
1023	cytoplasmic aconitate hydratase	8659555	98	2	4.80	2
1024	ATPase ASNA1	50428938	39	2	7.50	2