

Supplementary Table 7: Proteomic profile of run 3 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	semenogelin-2 precursor	4506885	65	50	74	2041
2	fibronectin isoform 3 preproprotein	16933542	259	150	70	2031
3	semenogelin-1 preproprotein	4506883	52	73	72	1705
4	A-kinase anchor protein 4 isoform 2	21493039	93	80	77	1421
5	lactotransferrin isoform 1 precursor	54607120	78	76	81	1414

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
6	fibronectin isoform 1 preproprotein	47132557	272	2	68	1407
7	actin, cytoplasmic 1	4501885	42	35	88	908
8	tubulin beta-4B chain	5174735	50	37	76	893
9	tubulin alpha-3C/D chain	17921993	50	37	75	766
10	heat shock-related 70 protein 2	13676857	70	47	69	672
11	A-kinase anchor protein 3	21493041	95	54	65	640
12	keratin, type II cytoskeletal 1	119395750	66	39	52	580
13	heat shock protein HSP 90-alpha isoform 1	153792590	98	49	54	579
14	tubulin beta chain	29788785	50	2	64	560
15	78 glucose-regulated protein precursor	16507237	72	41	57	556
16	myosin-9	12667788	227	105	46	541
17	clusterin preproprotein	355594753	52	27	46	520
18	pyruvate kinase isozymes M1/M2 isoform c	332164775	66	42	72	503
19	tubulin alpha-1A chain	17986283	50	3	57	490
20	heat shock protein HSP 90-beta	20149594	83	30	63	479
21	endoplasmic precursor	4507677	92	55	64	457
22	keratin, type I cytoskeletal 9	55956899	62	36	54	449
23	heat shock cognate 71 protein isoform 1	5729877	71	20	54	436
24	keratin, type I cytoskeletal 10	195972866	59	34	49	427
25	ATP synthase subunit beta, mitochondrial precursor	32189394	57	29	74	413
26	pyruvate kinase isozymes M1/M2 isoform a	33286418	58	2	69	413
27	prostatic acid phosphatase isoform TM-PAP precursor	197116348	48	27	48	411
28	fatty acid synthase	41872631	273	72	26	405
29	heat shock 70 protein 1A/1B	194248072	70	17	53	404
30	outer dense fiber protein 2 isoform 3	310750406	81	39	48	389
31	glyceraldehyde-3-phosphate dehydrogenase, testis- specific	7657116	45	20	72	378
32	heat shock 70 protein 1-like	124256496	70	26	57	370
33	protein disulfide-isomerase A3 precursor	21361657	57	37	69	331
34	protein-glutamine gamma-glutamyltransferase 4	156627577	77	38	44	322
35	fructose-bisphosphate aldolase A isoform 2	342187211	45	35	89	318
36	elongation factor 1-alpha 1	4503471	50	22	58	303
37	keratin, type II cytoskeletal 2 epidermal	47132620	65	28	58	297
38	triosephosphate isomerase isoform 2	226529917	31	25	86	290
39	aminopeptidase N precursor	157266300	110	48	52	275
40	alpha-enolase isoform 1	4503571	47	35	78	274
41	dipeptidyl peptidase 4	18765694	88	40	54	268
42	annexin A5	4502107	36	32	80	266
43	annexin A6 isoform 1	71773329	76	46	64	263
44	annexin A2 isoform 1	50845388	40	30	65	255
45	ropporin-1A	21359920	24	15	80	250
46	plastin-2	167614506	70	38	66	246
47	calcium-binding tyrosine phosphorylation-regulated protein isoform c	24797112	41	23	69	235
48	creatine kinase B-type	21536286	43	21	62	233
49	prolactin-inducible protein precursor	4505821	17	16	71	228
50	heat shock protein beta-1	4504517	23	20	87	223
51	calcium-binding tyrosine phosphorylation-regulated protein isoform a	24797108	53	7	44	213
52	prostate-specific antigen isoform 1 preproprotein	4502173	29	14	61	211
53	tubulin alpha-1C chain	14389309	50	2	53	202
54	phosphoglycerate kinase 2	31543397	45	29	77	201
55	tubulin beta-3 chain isoform 1	50592996	50	2	32	200
56	hypoxia up-regulated protein 1 precursor	5453832	111	38	42	197
57	glyceraldehyde-3-phosphate dehydrogenase	7669492	36	17	67	190
58	annexin A1	4502101	39	23	62	185
59	nuclear pore membrane glycoprotein 210-like isoform 1 precursor	117414168	211	53	37	184
60	ATP synthase subunit alpha, mitochondrial precursor	4757810	60	25	47	183

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
61	ruvB-like 2	5730023	51	29	64	182
62	T-complex protein 1 subunit beta isoform 1	5453603	57	30	62	178
63	fumarate hydratase, mitochondrial	19743875	55	25	58	171
64	sorbitol dehydrogenase	156627571	38	17	44	162
65	protein disulfide-isomerase precursor	20070125	57	32	56	161
66	60 heat shock protein, mitochondrial	31542947	61	33	62	160
67	glutathione S-transferase Mu 3	23065552	27	18	69	157
68	malate dehydrogenase, mitochondrial precursor	21735621	36	19	66	156
69	tektin-3	13994250	57	22	50	150
70	neutral alpha-glucosidase AB isoform 2 precursor	38202257	107	29	40	146
71	hexokinase-1 isoform HKI-ta/tb	15991831	103	30	33	145
72	leucine-rich repeat-containing protein 37B precursor	53829385	106	24	26	144
73	uncharacterized protein C1orf56 precursor	20149646	37	13	48	141
74	myeloperoxidase precursor	4557759	84	39	40	141
75	cathelicidin antimicrobial peptide preproprotein	348041314	20	13	54	140
76	angiotensin-converting enzyme isoform 1 precursor	4503273	150	27	24	138
77	ropporin-1B	59891409	24	4	81	135
78	acetyl-CoA acetyltransferase, mitochondrial precursor	4557237	45	23	53	135
79	clathrin heavy chain 1	4758012	192	34	24	132
80	keratin, type II cytoskeletal 5	119395754	62	9	18	130
81	calnexin precursor	10716563	68	29	58	129
82	filamin-B isoform 2	105990514	278	39	22	126
83	ruvB-like 1	4506753	50	22	58	124
84	elongation factor 2	4503483	95	32	39	124
85	14-3-3 protein zeta/delta	4507953	28	16	72	122
86	acrosin-binding protein precursor	17999524	61	20	41	121
87	cysteine-rich secretory protein 1 isoform 1 precursor	327315372	28	12	69	120
88	T-complex protein 1 subunit delta	38455427	58	19	39	120
89	transitional endoplasmic reticulum ATPase	6005942	89	27	40	120
90	T-complex protein 1 subunit gamma isoform a	63162572	61	21	51	120
91	D-3-phosphoglycerate dehydrogenase	23308577	57	14	31	119
92	peroxiredoxin-1	320461711	22	12	48	117
93	cytosolic non-specific dipeptidase isoform 1	271398239	53	20	41	117
94	14-3-3 protein epsilon	5803225	29	19	64	114
95	zona pellucida-binding protein 1 isoform 1 precursor	229577313	40	15	40	113
96	sperm protein associated with the nucleus on the X chromosome C	13435137	11	8	89	113
97	saccharopine dehydrogenase-like oxidoreductase	55770836	47	14	52	113
98	phospholipid hydroperoxide glutathione peroxidase, mitochondrial isoform A precursor	75709200	22	15	58	111
99	keratin, type II cytoskeletal 6A	5031839	60	8	18	111
100	cytochrome b-c1 complex subunit 2, mitochondrial precursor	50592988	48	18	60	110
101	ubiquitin-like modifier-activating enzyme 1	23510340	118	17	16	109
102	elongation factor 1-gamma	4503481	50	15	47	108
103	laminin subunit alpha-5 precursor	21264602	400	46	16	108
104	sperm acrosome membrane-associated protein 1 precursor	13569934	32	9	41	106
105	peroxiredoxin-6	4758638	25	17	71	106
106	T-complex protein 1 subunit theta	48762932	60	24	48	105
107	lipoprotein lipase precursor	4557727	53	18	40	103
108	laminin subunit beta-2 precursor	119703755	196	33	27	102
109	tektin-2	16507950	50	20	53	100
110	leucine-rich repeat-containing protein 37A precursor	289547512	188	16	11	100
111	long-chain-fatty-acid--CoA ligase 1	40807491	78	20	29	99
112	uncharacterized protein KIAA1683 isoform a	224451032	147	27	19	99
113	annexin A3	4826643	36	15	41	99
114	ras-related protein Rab-2A isoform a	4506365	24	15	62	97
115	T-complex protein 1 subunit alpha isoform a	57863257	60	19	57	97

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No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
116	sperm protein associated with the nucleus on the X chromosome B/F	22027492	12	6	79	97
117	matrix-remodeling-associated protein 5 precursor	139948432	312	29	12	96
118	keratin, type I cytoskeletal 14	15431310	52	6	22	93
119	dynein light chain 1, cytoplasmic	4505813	10	8	65	93
120	pyruvate dehydrogenase E1 component subunit beta, mitochondrial isoform 1 precursor	156564403	39	15	43	91
121	aconitate hydratase, mitochondrial precursor	4501867	85	21	26	91
122	myosin-10	41406064	229	27	24	88
123	trifunctional enzyme subunit alpha, mitochondrial precursor	20127408	83	18	25	88
124	isocitrate dehydrogenase [NADP] cytoplasmic	28178825	47	17	44	86
125	peptidyl-prolyl cis-trans isomerase A	10863927	18	12	71	86
126	succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	156416003	73	19	41	85
127	cytochrome c oxidase subunit 4 isoform 1, mitochondrial precursor	4502981	20	11	51	85
128	dynein light chain 2, cytoplasmic	18087855	10	5	65	85
129	calreticulin precursor	4757900	48	19	57	84
130	gastricsin isoform 1 preproprotein	4505757	42	5	9.30	83
131	T-complex protein 1 subunit eta isoform a	5453607	59	20	48	83
132	T-complex protein 1 subunit epsilon	24307939	60	20	52	82
133	L-lactate dehydrogenase C chain	4504973	36	14	45	81
134	ezrin	21614499	69	18	23	81
135	trifunctional enzyme subunit beta, mitochondrial precursor	4504327	51	18	46	80
136	phosphoglycerate kinase 1	4505763	45	14	60	80
137	T-complex protein 1 subunit zeta isoform a	4502643	58	17	39	80
138	histone H2B type 1-A	24586679	14	7	46	80
139	agrin precursor	54873613	215	28	20	79
140	protein NDRG1	37655183	43	9	38	79
141	serum albumin preproprotein	4502027	69	21	42	78
142	ubiquitin-40S ribosomal protein S27a precursor	208022622	18	4	30	76
143	erlin-2 isoform 1	6005721	38	14	49	75
144	radial spoke head protein 6 homolog A	13540559	81	16	33	74
145	mitochondrial inner membrane protein isoform 3	154354966	83	21	35	74
146	myosin light polypeptide 6 isoform 2	88999583	17	11	84	72
147	myeloid leukemia factor 1 isoform 1	11967975	31	11	56	72
148	izumo sperm-egg fusion protein 4 isoform 1 precursor	89903025	24	8	50	71
149	14-3-3 protein sigma	5454052	28	11	58	70
150	protein FAM71B	222418633	65	13	21	70
151	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1 precursor	4506675	69	19	43	69
152	sperm protein associated with the nucleus on the X chromosome E	22027496	11	2	89	69
153	peroxiredoxin-2 isoform a	32189392	22	11	42	69
154	annexin A4	4502105	36	17	56	68
155	6-phosphofructokinase type C isoform 1	11321601	86	19	28	68
156	serum amyloid P-component precursor	4502133	25	9	34	68
157	protein FAM166A	48717426	36	14	48	67
158	keratin, type I cytoskeletal 13 isoform a	131412225	50	20	51	66
159	alpha-actinin-4	12025678	105	16	25	66
160	glutathione S-transferase P	4504183	23	11	60	65
161	14-3-3 protein theta	5803227	28	7	47	65
162	olfactomedin-4 precursor	32313593	57	11	31	65
163	epididymal sperm-binding protein 1 precursor	301601648	26	9	48	64
164	peroxiredoxin-5, mitochondrial isoform a precursor	6912238	22	12	57	64
165	cytochrome c oxidase subunit II	251831110	26	7	48	64
166	L-asparaginase	145275200	32	13	47	63
167	adenylate kinase isoenzyme 1	4502011	22	10	55	63
168	cytochrome c oxidase subunit 5A, mitochondrial precursor	190885499	17	9	46	62
169	valyl-tRNA synthetase	5454158	140	19	19	61
170	laminin subunit gamma-1 precursor	145309326	178	25	23	61

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No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
171	alcohol dehydrogenase [NADP+]	24497577	37	8	27	61
172	plasma serine protease inhibitor precursor	194018472	46	16	42	61
173	cAMP-dependent protein kinase type II-alpha regulatory subunit	4758958	46	15	50	61
174	cytosol aminopeptidase	41393561	56	22	61	59
175	dipeptidase 3 isoform a precursor	193211608	56	13	35	59
176	cofilin-1	5031635	19	10	64	59
177	vesicular integral-membrane protein VIP36 precursor	5803023	40	11	42	58
178	peroxiredoxin-4 precursor	5453549	31	12	49	58
179	cAMP-dependent protein kinase type I-alpha regulatory subunit	4506063	43	13	45	58
180	adipocyte plasma membrane-associated protein	24308201	46	15	49	57
181	azurocidin preproprotein	11342670	27	10	59	57
182	26S protease regulatory subunit 8 isoform 1	24497435	46	12	38	57
183	actin-related protein T2	29893808	42	12	33	57
184	voltage-dependent anion-selective channel protein 2 isoform 2	296317339	32	10	41	56
185	glucosamine--fructose-6-phosphate aminotransferase [isomerizing] 1 isoform 1	347659028	79	16	22	56
186	dihydrolipoyl dehydrogenase, mitochondrial precursor	91199540	54	16	47	55
187	protein disulfide-isomerase A6 precursor	5031973	48	11	26	55
188	radial spoke head 1 homolog	18254456	35	11	48	54
189	glutamine synthetase	19923206	42	9	24	54
190	neprilysin	116256329	86	19	27	54
191	profilin-1	4826898	15	11	74	54
192	cytoskeleton-associated protein 4	19920317	66	16	36	53
193	keratin, type II cytoskeletal 4	331999954	56	15	31	53
194	keratin, type I cytoskeletal 16	24430192	51	3	15	52
195	protein S100-A9	4506773	13	10	86	52
196	dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial precursor	31711992	69	12	26	52
197	ras GTPase-activating-like protein IQGAP1	4506787	189	17	12	52
198	tektin-4	21389613	51	15	39	51
199	carbonyl reductase [NADPH] 1	4502599	30	11	44	51
200	peptidyl-prolyl cis-trans isomerase B precursor	4758950	24	9	48	51
201	ATP synthase subunit O, mitochondrial precursor	4502303	23	8	49	51
202	cytoplasmic dynein 1 heavy chain 1	33350932	532	26	5.20	50
203	neutrophil defensin 3 preproprotein	4885179	10	6	34	50
204	carboxypeptidase Z isoform 2 precursor	62388875	73	14	33	49
205	alpha-centractin	5031569	43	11	51	49
206	serpin B6	41152086	43	16	57	49
207	elongation factor 1-delta isoform 1	304555581	71	7	16	49
208	beta-2-microglobulin precursor	4757826	14	4	38	49
209	nuclear pore complex protein Nup155 isoform 1	24430149	155	15	15	48
210	protein phosphatase 1 regulatory subunit 7	4506013	42	13	30	47
211	collagen alpha-1(XVIII) chain isoform 1 precursor	110611235	154	11	14	47
212	lipid phosphate phosphohydrolase 1 isoform 1	29171736	32	5	23	47
213	sperm equatorial segment protein 1 precursor	21717832	39	5	16	46
214	6-phosphogluconate dehydrogenase, decarboxylating	40068518	53	11	30	46
215	histone H4	4504303	11	8	59	45
216	myosin-14 isoform 3	224831241	232	16	14	45
217	chloride intracellular channel protein 1	14251209	27	10	45	45
218	NADH-ubiquinone oxidoreductase 75 subunit, mitochondrial isoform 1	33519475	79	14	25	45
219	flavin reductase (NADPH)	4502419	22	7	45	45
220	hsc70-interacting protein	19923193	41	7	18	45
221	calmodulin	58218968	17	12	66	45
222	plastin-3 isoform 1	209862851	71	8	21	44
223	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2 isoform 2 precursor	209413738	68	14	47	44
224	cytochrome c oxidase subunit 5B, mitochondrial precursor	17017988	14	10	50	44
225	acrosomal protein SP-10 isoform a precursor	4501879	28	5	23	44
226	cytochrome b-c1 complex subunit 1, mitochondrial precursor	46593007	53	14	32	44
227	single-stranded DNA-binding protein, mitochondrial precursor	4507231	17	8	59	44

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
228	L-lactate dehydrogenase A chain isoform 3	260099723	40	8	23	44
229	ATP-citrate synthase isoform 1	38569421	121	16	13	44
230	ferritin, mitochondrial precursor	29126241	28	10	39	43
231	fructose-bisphosphate aldolase C	4885063	39	2	17	43
232	succinyl-CoA: 3-ketoacid-coenzyme A transferase 1, mitochondrial precursor	4557817	56	13	41	43
233	glycogen phosphorylase, brain form	21361370	97	8	7.60	42
234	tektin-1	16753231	48	11	30	42
235	citrate synthase, mitochondrial precursor	38327625	52	15	44	42
236	alpha-crystallin B chain	4503057	20	12	62	42
237	neutrophil gelatinase-associated lipocalin precursor	38455402	23	7	46	42
238	acrosin precursor	148613878	46	13	40	41
239	transmembrane protease serine 2 isoform 2	205360943	54	6	10	41
240	sperm acrosome membrane-associated protein 3	27777653	23	8	33	41
241	anterior gradient protein 2 homolog precursor	5453541	20	8	53	41
242	importin subunit beta-1	19923142	97	9	13	41
243	14-3-3 protein beta/alpha	21328448	28	6	52	41
244	maltase-glucoamylase, intestinal	221316699	210	14	11	40
245	glypican-1 precursor	167001141	62	13	29	40
246	radial spoke head protein 9 homolog isoform 1	32964825	31	16	67	39
247	protein disulfide-isomerase A4 precursor	4758304	73	12	21	39
248	protein dpy-19 homolog 2	93277105	87	10	15	39
249	26S protease regulatory subunit 6A	21361144	49	11	33	39
250	keratin, type II cytoskeletal 8	4504919	54	6	22	39
251	uncharacterized protein C20orf106 precursor	71043622	20	7	51	38
252	26S proteasome non-ATPase regulatory subunit 11	28872725	47	10	25	38
253	transmembrane emp24 domain-containing protein 10 precursor	98986464	25	9	40	38
254	mitochondrial carrier homolog 2	7657347	33	9	46	37
255	carbonic anhydrase 4 precursor	4502519	35	9	34	37
256	26S protease regulatory subunit 10B	195539395	46	8	24	37
257	26S proteasome non-ATPase regulatory subunit 13 isoform 1	157502193	43	11	30	37
258	dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 subunit precursor	20070197	51	10	38	37
259	sodium/potassium-transporting ATPase subunit alpha-4 isoform 1	153946397	114	15	19	37
260	ribose-phosphate pyrophosphokinase 2 isoform 2	4506129	35	8	30	37
261	endoplasmic reticulum resident protein 29 isoform 1 precursor	5803013	29	11	47	36
262	nucleoside diphosphate kinase homolog 5	4505413	24	8	58	36
263	ras-related protein Rab-11B	190358517	24	10	53	36
264	ubiquitin carboxyl-terminal hydrolase 14 isoform b	82880645	52	8	21	36
265	2,4-dienoyl-CoA reductase, mitochondrial precursor	4503301	36	7	27	35
266	voltage-dependent anion-selective channel protein 3 isoform 1	25188179	31	8	32	35
267	protein S100-A8	21614544	11	7	55	35
268	mucin-6 precursor	151301154	257	16	11	35
269	3-hydroxyisobutyrate dehydrogenase, mitochondrial precursor	23308751	35	8	30	35
270	26S protease regulatory subunit 6B isoform 1	5729991	47	12	28	35
271	T-complex protein 11 homolog isoform 1	148226214	57	10	33	35
272	myosin regulatory light chain 12B	15809016	20	9	68	35
273	synaptophysin-like protein 1 isoform a	5803185	29	5	30	35
274	dynein heavy chain 17, axonemal	256542310	509	18	7.00	35
275	T-complex protein 1 subunit zeta-2 isoform 1	58331173	58	6	30	34
276	sodium/potassium-transporting ATPase subunit beta- 3	4502281	32	8	34	34
277	alpha-actinin-1 isoform c	194097352	103	5	17	34
278	uncharacterized protein C7orf61	51972226	24	5	34	34
279	cullin-associated NEDD8-dissociated protein 1	21361794	136	13	11	34
280	histone H3.1	4504281	15	4	17	34
281	outer dense fiber protein 3	19526475	28	10	34	34
282	uncharacterized protein C9orf9	33285006	19	8	62	34
283	dihydrolipoylysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial isoform 1 precursor	19923748	49	10	36	33

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
284	radial spoke head protein 3 homolog	31543559	64	8	20	33
285	26S proteasome non-ATPase regulatory subunit 7	25777615	37	7	31	33
286	calicin	169636428	67	12	25	33
287	hyaluronidase PH-20 isoform 2	291290981	58	9	23	32
288	26S protease regulatory subunit 4	24430151	49	9	21	32
289	sperm surface protein Sp17	8394343	17	6	64	32
290	14-3-3 protein gamma	21464101	28	3	37	32
291	coiled-coil domain-containing protein 19, mitochondrial precursor	81295816	66	9	17	32
292	hydroxyacyl-coenzyme A dehydrogenase, mitochondrial isoform 1 precursor	296179427	36	7	31	32
293	membrane-associated progesterone receptor component 1	5729875	22	9	43	32
294	glucose-6-phosphate isomerase isoform 2	18201905	63	11	32	31
295	NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial precursor	4758788	30	10	42	31
296	glutathione reductase, mitochondrial isoform 1 precursor	50301238	56	14	48	31
297	lysozyme C precursor	4557894	17	9	49	31
298	electron transfer flavoprotein subunit alpha, mitochondrial isoform a	4503607	35	10	44	31
299	carnitine O-palmitoyltransferase 2, mitochondrial precursor	4503023	74	13	30	31
300	nucleobindin-2 precursor	4826870	50	12	38	30
301	heat shock 70 protein 4L	31541941	95	11	13	30
302	eukaryotic translation initiation factor 5A-1 isoform B	219555712	17	9	46	30
303	protein S100-A11	5032057	12	6	52	30
304	epididymal secretory protein E3-beta precursor	11641279	18	6	59	30
305	ras-related protein Rab-1B	13569962	22	6	44	30
306	NADPH--cytochrome P450 reductase	127139033	77	11	16	30
307	stress-70 protein, mitochondrial precursor	24234688	74	9	15	29
308	integrin alpha-M isoform 1 precursor	224831239	127	14	16	29
309	ATP synthase subunit d, mitochondrial isoform a	5453559	18	5	39	29
310	cytochrome c1, heme protein, mitochondrial	21359867	35	8	50	29
311	proteasome subunit beta type-5 isoform 1	4506201	28	10	37	29
312	solute carrier family 2, facilitated glucose transporter member 14	23592238	56	8	14	29
313	tektin-5	21389569	56	9	24	29
314	ATP synthase subunit b, mitochondrial precursor	21361565	29	10	49	28
315	brain acid soluble protein 1	30795231	23	7	51	28
316	enoyl-CoA hydratase, mitochondrial	194097323	31	8	36	28
317	CD177 antigen precursor	110735433	46	8	25	27
318	aldose reductase	4502049	36	9	36	27
319	keratin, type I cytoskeletal 17	4557701	48	2	14	27
320	transmembrane emp24 domain-containing protein 9 precursor	39725636	27	8	23	27
321	integrin beta-2 precursor	89191865	85	10	15	27
322	G-protein coupled receptor 64 isoform 2 precursor	119943116	110	7	10.00	27
323	interferon-inducible GTPase 5	10257429	50	9	32	27
324	slit homolog 2 protein precursor	4759146	170	11	11	27
325	isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial precursor	5031777	40	7	27	27
326	tripeptidyl-peptidase 2	186972143	138	12	12	27
327	proteasome subunit alpha type-5 isoform 1	23110942	26	9	52	27
328	ribonuclease inhibitor	42822872	50	7	19	27
329	enkurin	21450721	29	6	38	27
330	dynein heavy chain 8, axonemal	332688227	539	13	2.70	27
331	26S protease regulatory subunit 7 isoform 1	4506209	49	8	24	27
332	spectrin alpha chain, brain isoform 2	154759259	285	11	7.20	27
333	lactoylglutathione lyase	118402586	21	8	29	27
334	cathepsin D preproprotein	4503143	45	8	24	27
335	plasma membrane calcium-transporting ATPase 4 isoform 4b	48255957	134	11	12	27
336	ras-related protein Rab-2B isoform 1	21361884	24	2	40	27
337	L-xylulose reductase isoform 1	7705925	26	9	49	26
338	reticulocalbin-2 precursor	4506457	37	9	38	26
339	mitochondria-eating protein	21687119	61	6	13	26

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
340	vesicle-fusing ATPase	156564401	83	9	13	26
341	annexin A11	22165431	54	9	20	26
342	protein DJ-1	31543380	20	11	74	26
343	histone H2A type 1-A	25092737	14	5	35	26
344	ras-related protein Rab-27B	5729997	25	9	39	26
345	protein ERGIC-53 precursor	5031873	58	8	22	26
346	endoplasmic reticulum resident protein 44 precursor	52487191	47	9	31	25
347	peptidyl-prolyl cis-trans isomerase FKBP4	4503729	52	9	28	25
348	SYNJ2BP-COX16 protein isoform 1	321400118	21	7	39	25
349	ADP/ATP translocase 4	13775208	35	8	28	25
350	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10	4758774	21	6	37	25
351	adenine phosphoribosyltransferase isoform a	4502171	20	7	33	25
352	solute carrier family 2, facilitated glucose transporter member 3	5902090	54	2	14	25
353	carboxypeptidase E preproprotein	4503009	53	7	19	24
354	prohibitin	4505773	30	8	37	24
355	eukaryotic initiation factor 4A-I isoform 1	4503529	46	7	22	24
356	rab GDP dissociation inhibitor beta isoform 1	6598323	51	10	24	24
357	ADP-ribosylation factor 1	4502201	21	8	45	24
358	coiled-coil-helix-coiled-coil-helix domain-containing protein 3, mitochondrial precursor	8923390	26	8	27	24
359	barrier-to-autointegration factor	4502389	10	5	49	24
360	uncharacterized protein C20orf107 precursor	71043642	19	9	48	24
361	ras-related protein Rab-14	19923483	24	8	51	24
362	endophilin-B1 isoform 2	331284170	44	8	18	24
363	medium-chain specific acyl-CoA dehydrogenase, mitochondrial isoform b precursor	187960098	47	8	24	23
364	erythrocyte band 7 integral membrane protein isoform a	38016911	32	6	30	23
365	glypican-4 precursor	21614525	62	6	14	23
366	kallikrein-2 isoform 1 precursor	5031829	29	6	30	23
367	transmembrane protein 190 precursor	21040263	19	6	39	23
368	adenosylhomocysteinase isoform 1	9951915	48	9	23	23
369	calpain small subunit 1	51599151	28	5	44	23
370	acrosome formation-associated factor isoform 1	239582757	33	5	25	23
371	von Willebrand factor A domain-containing protein 1 isoform 1 precursor	40068485	47	8	34	23
372	axonemal dynein light intermediate polypeptide 1	37595560	32	7	32	23
373	glycerol kinase 2	41393575	61	5	10	23
374	FUN14 domain-containing protein 2	24371248	21	9	55	23
375	beta-centractin	11342680	42	4	38	23
376	vesicle-associated membrane protein-associated protein A isoform 2	94721252	28	7	33	22
377	sperm-associated antigen 6 isoform 1	6912678	55	8	28	22
378	60S acidic ribosomal protein P0	16933546	34	10	30	22
379	keratin, type I cytoskeletal 19	24234699	44	6	28	22
380	malectin precursor	7661948	32	8	37	22
381	thioredoxin-related transmembrane protein 4 precursor	40254947	39	5	12	22
382	proteasome subunit alpha type-6	23110944	27	8	37	22
383	synaptic vesicle membrane protein VAT-1 homolog	18379349	42	9	30	22
384	proteasome subunit alpha type-7-like isoform 2	68303563	28	8	43	22
385	transmembrane and coiled-coil domain-containing protein 2	56847610	20	5	28	22
386	nuclear pore complex protein Nup93 isoform 1	208609990	93	9	19	22
387	short-chain specific acyl-CoA dehydrogenase, mitochondrial precursor	4557233	44	7	25	22
388	pyruvate dehydrogenase protein X component, mitochondrial isoform 2	203098816	51	7	13	22
389	dynactin subunit 1 isoform 1	13259510	142	11	8.50	22
390	nuclear pore membrane glycoprotein 210 precursor	27477134	205	10	6.70	22
391	dnaJ homolog subfamily A member 2	5031741	46	8	35	22
392	serine/threonine-protein phosphatase 2A 65 regulatory subunit A alpha isoform	21361399	65	7	13	22
393	protein-L-isoaspartate (D-aspartate) O- methyltransferase isoform 2	354983493	30	7	42	21
394	gamma-glutamyltranspeptidase 1 precursor	73915090	61	8	11	21
395	alanyl-tRNA editing protein Aarsd1 isoform 1	217416402	66	7	19	21

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
396	importin subunit alpha-2	4504897	58	8	22	21
397	WD repeat-containing protein 16 isoform b	124028512	68	9	24	21
398	40S ribosomal protein S2	15055539	31	8	28	21
399	membrane-associated progesterone receptor component 2	291621647	26	4	17	21
400	EF-hand calcium-binding domain-containing protein 6 isoform a	38570107	173	6	4.60	21
401	ectonucleotide pyrophosphatase/phosphodiesterase family member 3	111160296	100	9	16	21
402	NME1-NME2 protein	66392203	30	6	29	21
403	very long-chain specific acyl-CoA dehydrogenase, mitochondrial isoform 2 precursor	76496475	68	9	21	20
404	CD59 glycoprotein preproprotein	187828910	14	4	25	20
405	alpha-1-antitrypsin precursor	50363217	47	8	24	20
406	uncharacterized protein C2orf57	284413778	42	4	15	20
407	annexin A7 isoform 1	4502111	50	9	16	20
408	kunitz-type protease inhibitor 3 precursor	189571689	10	3	29	20
409	glucosidase 2 subunit beta isoform 1 precursor	48255889	59	8	18	20
410	bifunctional aminoacyl-tRNA synthetase	62241042	171	8	4.70	20
411	alcohol dehydrogenase class-3	71565154	40	6	17	20
412	electron transfer flavoprotein subunit beta isoform 1	4503609	28	8	34	19
413	prenylcysteine oxidase 1 precursor	166795301	57	8	25	19
414	hornerin	57864582	282	6	4.60	19
415	importin-5	24797086	126	7	6.60	19
416	prostasin preproprotein	4506153	36	5	22	19
417	40S ribosomal protein S3a	4506723	30	7	26	19
418	annexin A13 isoform a	51895795	35	8	31	19
419	translin	4759270	26	6	37	19
420	succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial precursor	115387094	32	6	26	19
421	reticulocalbin-1 precursor	4506455	39	8	36	19
422	nicastatin precursor	24638433	78	7	14	19
423	casein kinase II subunit beta	23503295	25	7	49	19
424	prolargin precursor	4506041	44	6	19	19
425	proteasome subunit beta type-7 proprotein	4506203	30	6	22	19
426	adenylyl cyclase-associated protein 1	5453595	52	8	16	19
427	ADP-ribosylation factor 4	4502205	21	4	45	19
428	proteasome subunit alpha type-7	4506189	28	2	35	19
429	proteasome subunit alpha type-1 isoform 1	23110935	30	8	33	18
430	erlin-1	154800487	39	5	27	18
431	gelsolin isoform a precursor	4504165	86	8	20	18
432	26S proteasome non-ATPase regulatory subunit 2	25777602	100	11	16	18
433	lysosome-associated membrane glycoprotein 1 precursor	112380628	45	4	9.80	18
434	F-actin-capping protein subunit beta isoform 1	4826659	31	5	21	18
435	cathepsin G preproprotein	4503149	29	7	33	18
436	pyruvate dehydrogenase E1 component subunit alpha, testis-specific form, mitochondrial precursor	4885543	43	6	14	18
437	vesicle-associated membrane protein 3	4759300	11	5	41	18
438	4-trimethylaminobutyaldehyde dehydrogenase	115387104	56	7	15	18
439	regenerating islet-derived protein 3-gamma precursor	38348213	19	4	34	18
440	uncharacterized protein C9orf24 isoform 1	21362074	30	5	15	18
441	UMP-CMP kinase isoform a	7706497	26	5	31	18
442	growth arrest-specific protein 6 isoform 1 precursor	4557617	75	7	16	18
443	casein kinase II subunit alpha isoform a	29570791	45	7	33	18
444	EF-hand domain-containing family member C2	31542743	87	7	13	18
445	cystatin-B	4503117	11	4	55	18
446	serine protease inhibitor Kazal-type 2 precursor	10863911	9	2	36	18
447	heme oxygenase 2	8051608	36	8	29	17
448	parkin coregulated gene protein isoform 2	122939202	29	6	32	17
449	thioredoxin isoform 1	50592994	12	5	43	17
450	thioredoxin domain-containing protein 3	148839372	67	7	15	17

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
451	testis-expressed protein 101 isoform 1	194018544	29	4	18	17
452	glycerol-3-phosphate dehydrogenase 1-like protein	24307999	38	8	15	17
453	proteasome subunit beta type-4	22538467	29	7	45	17
454	NADH-cytochrome b5 reductase 2	47778923	31	6	30	17
455	sperm acrosome-associated protein 5 precursor	120952755	18	5	35	17
456	ubiquitin carboxyl-terminal hydrolase isozyme L3	5174741	26	6	33	17
457	ribonuclease-like protein 13 precursor	59276062	18	5	28	17
458	kinesin-1 heavy chain	4758648	110	9	12	17
459	voltage-dependent anion-selective channel protein 1	4507879	31	5	26	17
460	rho GDP-dissociation inhibitor 1 isoform a	4757768	23	5	43	17
461	translationally-controlled tumor protein	4507669	20	4	35	17
462	proteasome subunit alpha type-2	4506181	26	6	44	17
463	transmembrane emp24 domain-containing protein 2 precursor	5803149	23	3	24	17
464	epoxide hydrolase 2	27597073	63	6	9.20	17
465	coiled-coil domain-containing protein 147	56961680	103	9	11	17
466	receptor expression-enhancing protein 5	115430112	21	5	20	17
467	epididymal secretory protein E3-alpha precursor	11386189	18	5	41	17
468	lysozyme-like protein 4 precursor	21389465	16	4	32	17
469	ropporin-1-like protein	17572807	26	6	36	17
470	ATPase inhibitor, mitochondrial isoform 1 precursor	7705927	12	3	15	17
471	EGF-like repeat and discoidin 1-like domain- containing protein 3 precursor	31317224	54	6	15	17
472	protein FAM154A	301129242	55	4	11	16
473	calcium/calmodulin-dependent protein kinase type II subunit delta isoform 2	26667189	54	5	12	16
474	26S proteasome non-ATPase regulatory subunit 3	25777612	61	7	16	16
475	galectin-3-binding protein precursor	5031863	65	6	8.20	16
476	eukaryotic translation initiation factor 3 subunit F	4503519	38	6	23	16
477	testis-specific H1 histone	32401437	28	3	9.40	16
478	beta-defensin 129 precursor	18250304	20	3	16	16
479	homogentisate 1,2-dioxygenase	115527117	50	7	25	16
480	sperm acrosome membrane-associated protein 4 precursor	19424138	13	2	22	16
481	proteasome subunit alpha type-4 isoform 1	4506185	29	6	25	16
482	adenylate kinase 7	148727333	83	4	6.50	16
483	COP9 signalosome complex subunit 4	38373690	46	4	12	16
484	dynactin subunit 2	5453629	45	6	17	15
485	acid ceramidase isoform b	189011546	47	6	8.50	15
486	poly (rC)-binding protein 1	222352151	37	4	9.30	15
487	cytochrome b-c1 complex subunit 7 isoform 1	5454152	14	6	54	15
488	CDGSH iron-sulfur domain-containing protein 1	8923930	12	4	39	15
489	spondin-2 precursor	6912682	36	4	11	15
490	isochorismatase domain-containing protein 2, mitochondrial isoform 2	13376007	24	6	60	15
491	enoyl-CoA delta isomerase 1, mitochondrial isoform 2 precursor	295842266	31	5	19	15
492	speriolin isoform 1	197276668	62	5	12	15
493	L-lactate dehydrogenase A-like 6B	15082234	42	5	25	15
494	ATP synthase subunit gamma, mitochondrial isoform L (liver) precursor	50345988	33	5	26	15
495	isocitrate dehydrogenase [NAD] subunit beta, mitochondrial isoform a precursor	28178821	42	6	19	15
496	aspartyl aminopeptidase	156416028	53	7	26	15
497	heme-binding protein 2	7657603	23	4	24	15
498	histidine triad nucleotide-binding protein 1	4885413	14	4	48	15
499	V-type proton ATPase catalytic subunit A	19913424	68	6	18	15
500	GTP-binding nuclear protein Ran	5453555	24	5	25	15
501	calcium-binding and spermatid-specific protein 1	90652863	43	4	12	15
502	endoplasmic reticulum-Golgi intermediate compartment protein 3 isoform a	38327615	44	6	19	15
503	40S ribosomal protein S3	15718687	27	7	28	15
504	hydroxyacylglutathione hydrolase, mitochondrial isoform 1 precursor	94538322	34	5	21	15
505	septin-7 isoform 2	148352329	51	6	22	15

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
506	keratin, type I cytoskeletal 18	4557888	48	5	17	15
507	NADH-cytochrome b5 reductase 3 isoform 2	193794826	32	7	44	15
508	40S ribosomal protein SA	59859885	33	3	13	15
509	ras-related protein Rab-3D	4759000	24	2	24	15
510	histone H2B type 1-M	4504263	14	2	40	14
511	aspartate aminotransferase, mitochondrial precursor	73486658	48	7	22	14
512	uromodulin precursor	59850812	70	6	9.50	14
513	macrophage-capping protein	63252913	38	6	18	14
514	calmin	19923599	112	6	7.90	14
515	proteasome subunit beta type-1	4506193	26	4	23	14
516	lactadherin isoform a preproprotein	167830475	43	7	21	14
517	gamma-glutamyl hydrolase precursor	4503987	36	5	20	14
518	prostate and testis expressed protein 1 precursor	19923082	14	6	56	14
519	alpha-1-antichymotrypsin precursor	50659080	48	6	20	14
520	stomatin-like protein 2	7305503	39	6	29	14
521	cytochrome b5 isoform 1	41281768	15	4	43	14
522	general vesicular transport factor p115	4505541	108	6	5.10	14
523	26S proteasome non-ATPase regulatory subunit 12 isoform 1	4506221	53	5	17	14
524	retinoid-inducible serine carboxypeptidase precursor	11055992	51	4	5.80	14
525	spectrin beta chain, brain 1 isoform 1	112382250	275	9	5.90	14
526	puromycin-sensitive aminopeptidase	158937236	103	8	11	14
527	proteasome activator complex subunit 1 isoform 1	5453990	29	6	32	13
528	matrix metalloproteinase-9 preproprotein	74272287	78	5	9.50	13
529	transmembrane emp24 domain-containing protein 4 precursor	33457308	26	3	20	13
530	proteasome subunit alpha type-3 isoform 2	23110939	28	6	31	13
531	ferritin heavy chain	56682959	21	3	17	13
532	glycodelin precursor	65507501	21	3	24	13
533	cytochrome c oxidase subunit 6B1	4502985	10	4	53	13
534	ras-related protein Rab-7a	34147513	23	3	18	13
535	translocon-associated protein subunit alpha precursor	169404009	32	3	12	13
536	vimentin	62414289	54	5	14	13
537	40S ribosomal protein S16	4506691	16	4	29	13
538	nucleotide exchange factor SIL1 precursor	11968009	52	7	19	13
539	atlastin-3	45827806	61	6	19	13
540	UTP--glucose-1-phosphate uridylyltransferase isoform b	48255968	56	6	13	13
541	EF-hand domain-containing protein 1 isoform 1	156616292	74	5	10	13
542	LETM1 and EF-hand domain-containing protein 1, mitochondrial precursor	6912482	83	5	8.80	13
543	exportin-7	154448892	124	7	8.60	13
544	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial precursor	4505371	24	5	24	13
545	midkine precursor	4505135	16	3	23	13
546	programmed cell death 6-interacting protein isoform 1	22027538	96	6	5.40	13
547	kelch-like protein 10	148664209	69	7	18	13
548	perilipin-3 isoform 1	255958282	47	6	12	13
549	dnaJ homolog subfamily B member 13	39204547	36	5	22	13
550	abhydrolase domain-containing protein 14B	14249382	22	6	33	13
551	phosphatidylethanolamine-binding protein 1 preproprotein	4505621	21	2	18	12
552	glutamate carboxypeptidase 2 isoform 1	4758398	84	6	12	12
553	45 calcium-binding protein isoform 2 precursor	18699732	42	5	23	12
554	tropomyosin alpha-3 chain isoform 2	24119203	29	4	23	12
555	alpha-soluble NSF attachment protein	47933379	33	7	35	12
556	apolipoprotein A-IV precursor	71773110	45	4	14	12
557	zinc-alpha-2-glycoprotein precursor	4502337	34	4	21	12
558	hypoxanthine-guanine phosphoribosyltransferase	4504483	25	4	22	12
559	26S proteasome non-ATPase regulatory subunit 6	7661914	46	5	17	12
560	CD63 antigen isoform A	4502679	26	2	5.00	12

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
561	2-oxoglutarate dehydrogenase, mitochondrial isoform 3 precursor	259013553	116	5	5.30	12
562	40S ribosomal protein S9	14141193	23	5	18	12
563	stress-induced-phosphoprotein 1	5803181	63	5	13	12
564	mesencephalic astrocyte-derived neurotrophic factor precursor	299523086	21	4	15	12
565	charged multivesicular body protein 4b	28827795	25	4	20	12
566	26S proteasome non-ATPase regulatory subunit 8	156631005	40	5	23	12
567	transmembrane protein 89 precursor	56847630	18	3	17	12
568	epididymal secretory protein E1 precursor	5453678	17	3	34	12
569	transmembrane emp24 domain-containing protein 7 precursor	32996709	25	5	24	12
570	heat shock 70 protein 4	38327039	94	5	4.90	12
571	ras-related protein Rab-3B	19923750	25	2	19	12
572	UPF0468 protein C16orf80	8392875	23	2	12	12
573	cytosolic 5'-nucleotidase 1B isoform 4	312283642	71	6	15	12
574	40S ribosomal protein S26	15011936	13	2	21	12
575	extracellular matrix protein 1 isoform 3 precursor	322302700	64	3	6.50	11
576	lysyl-tRNA synthetase isoform 1	194272210	71	4	9.00	11
577	delta (3,5)-Delta (2,4)-dienoyl-CoA isomerase, mitochondrial precursor	70995211	36	4	14	11
578	ecto-ADP-ribosyltransferase 3 isoform a precursor	194097380	44	4	12	11
579	profilin-2 isoform a	16753215	15	5	36	11
580	dnaJ homolog subfamily B member 8	23503241	26	4	22	11
581	dnaJ homolog subfamily C member 3 precursor	5453980	58	6	21	11
582	melanoma inhibitory activity protein 3 precursor	122891870	214	6	4.30	11
583	NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial precursor	222080062	27	4	22	11
584	receptor expression-enhancing protein 6	19923919	21	3	17	11
585	neutrophil elastase preproprotein	4503549	29	4	19	11
586	cathepsin F precursor	6042196	53	4	7.20	11
587	heat shock 70 protein 13 precursor	48928056	52	4	13	11
588	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial isoform 1 precursor	20149568	51	6	17	11
589	abhydrolase domain-containing protein 10, mitochondrial precursor	8923001	34	5	26	11
590	60S ribosomal protein L7	15431301	29	4	21	11
591	bifunctional ATP-dependent dihydroxyacetone kinase/FAD-AMP lyase (cyclizing)	20149621	59	5	16	11
592	superoxide dismutase [Mn], mitochondrial isoform A precursor	67782305	25	4	20	11
593	coiled-coil domain-containing protein 105	226492892	57	6	15	11
594	dnaJ homolog subfamily A member 4 isoform 2	194328760	45	6	20	11
595	D-dopachrome decarboxylase	4503291	13	3	31	11
596	sialidase-1 precursor	4557791	45	3	12	11
597	ATP synthase subunit epsilon, mitochondrial	5901896	6	3	45	11
598	serine protease HTRA1 precursor	4506141	51	5	20	11
599	60S ribosomal protein L13 isoform 1	15431295	24	3	11	11
600	10 heat shock protein, mitochondrial	4504523	11	3	35	10
601	cytochrome c	11128019	12	4	48	10
602	renin receptor precursor	15011918	39	3	13	10
603	transcription factor A, mitochondrial precursor	4507401	29	4	18	10
604	signal peptidase complex subunit 3	11345462	20	3	18	10
605	leucine zipper transcription factor-like protein 1	9966793	35	5	19	10
606	retinol dehydrogenase 11 isoform 1 precursor	166795268	35	4	18	10
607	retinal dehydrogenase 1	21361176	55	5	16	10
608	transcription elongation factor B polypeptide 1 isoform a	325652033	12	4	50	10
609	serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform	4506017	36	3	17	10
610	alpha-mannosidase 2C1	46852164	116	4	5.40	10
611	tomoregulin-2 precursor	12383051	41	3	7.80	10
612	dehydrogenase/reductase SDR family member 7 precursor	7706318	38	4	17	10
613	thioredoxin domain-containing protein 17	14249348	14	3	20	10
614	copper homeostasis protein cutC homolog	148596990	29	4	25	10
615	ras-related protein Ral-A precursor	33946329	24	3	18	10

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
616	histone H2A-Bbd type 2/3	63029935	13	3	43	10
617	nuclear migration protein nudC	5729953	38	4	13	10
618	nucleosome assembly protein 1-like 4	5174613	43	4	14	10
619	protein NDRG3 isoform a	14165266	41	4	18	10
620	ras-related protein Ral-B	4506405	23	2	27	10
621	BAG family molecular chaperone regulator 5 isoform b	6631077	51	4	16	10
622	superoxide dismutase [Cu-Zn]	4507149	16	6	65	10
623	ras-related protein Rab-27A	34485709	25	2	19	10
624	GTP-binding protein SAR1b	7705827	22	2	35	10
625	26S proteasome non-ATPase regulatory subunit 14	5031981	35	4	16	9
626	ES1 protein homolog, mitochondrial isoform 1a precursor	296531406	28	5	34	9
627	adenylate kinase 8	22749187	55	5	14	9
628	lysosome membrane protein 2 isoform 1 precursor	5031631	54	4	15	9
629	glycerophosphodiester phosphodiesterase 1	7706617	38	3	11	9
630	26S proteasome non-ATPase regulatory subunit 1 isoform 1	25777600	106	6	7.90	9
631	tropomodulin-3	7657649	40	3	12	9
632	beta-lactamase-like protein 2	7705793	33	3	13	9
633	transcription elongation factor B polypeptide 2 isoform b	46276893	18	4	28	9
634	cytochrome c oxidase subunit 7A2, mitochondrial precursor	262118227	13	3	22	9
635	myeloblastin precursor	71361688	28	3	18	9
636	translocon-associated protein subunit delta isoform 3 precursor	325301078	20	3	18	9
637	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8	7657369	20	3	22	9
638	left-right determination factor 1 preproprotein	10337603	41	4	9.00	9
639	BPI fold-containing family A member 3 isoform 1 precursor	109627654	28	4	15	9
640	dnaJ homolog subfamily B member 6 isoform b	4885495	27	3	17	9
641	biglycan preproprotein	4502403	42	3	9.50	9
642	ran-specific GTPase-activating protein	4506407	23	3	15	9
643	signal peptidase complex catalytic subunit SEC11A	7657609	21	3	26	9
644	60S ribosomal protein L18	4506607	22	2	14	9
645	prostaglandin-H2 D-isomerase precursor	32171249	21	4	36	9
646	eukaryotic translation elongation factor 1 epsilon-1 isoform 1	4758862	20	4	34	9
647	ubiquitin-conjugating enzyme E2 L3	4507789	18	4	34	9
648	transketolase	205277463	68	4	11	9
649	apolipoprotein D precursor	4502163	21	4	22	9
650	ethanolamine-phosphate cytidyltransferase isoform 1	296841136	46	3	12	9
651	GTP-binding protein SAR1a	217416369	22	5	33	9
652	actin-like protein 9	194097462	46	5	18	9
653	arginyl-tRNA synthetase, cytoplasmic	15149476	75	3	7.00	9
654	destrin isoform a	5802966	19	2	21	9
655	acyl-protein thioesterase 1	5453722	25	2	10	9
656	nuclear pore complex protein Nup205	57634534	228	5	4.10	9
657	F-actin-capping protein subunit alpha-3	15277417	35	3	12	9
658	60S ribosomal protein L24	4506619	18	3	19	9
659	acetyl-CoA acetyltransferase, cytosolic	148539872	41	3	15	9
660	WD repeat-containing protein 1 isoform 1	9257257	66	4	3.80	9
661	keratin, type II cuticular Hb4	15431316	65	2	8.20	9
662	endoplasmic reticulum-Golgi intermediate compartment protein 1	72534712	33	4	20	8
663	dnaJ homolog subfamily B member 11 precursor	7706495	41	3	11	8
664	nucleoporin p54	26051237	55	4	12	8
665	signal peptidase complex subunit 2	162417971	25	5	15	8
666	sulfatase-modifying factor 2 isoform e precursor	194248090	39	3	11	8
667	complement component 1 Q subcomponent-binding protein, mitochondrial precursor	4502491	31	4	27	8
668	14 phosphohistidine phosphatase isoform 3	24475861	14	2	29	8
669	beta-hexosaminidase subunit alpha preproprotein	189181666	61	4	11	8
670	cytochrome b-c1 complex subunit Rieske, mitochondrial	163644321	30	4	28	8

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
671	tryptophanyl-tRNA synthetase, cytoplasmic isoform b	47419918	49	4	15	8
672	proteasome subunit beta type-3	22538465	23	4	30	8
673	40S ribosomal protein S8	4506743	24	4	23	8
674	uncharacterized protein C9orf171	46409466	36	3	11	8
675	epoxide hydrolase 1 precursor	209862837	53	3	8.10	8
676	protein ALEX XLas	117938759	111	3	3.50	8
677	kinectin isoform a	33620775	156	4	4.40	8
678	filaggrin-2	62122917	248	3	1.50	8
679	glyoxylate reductase/hydroxypyruvate reductase	6912396	36	3	16	8
680	ubiquitin thioesterase OTUB1	109148508	31	3	15	8
681	ras-related protein Rab-5C isoform a	41393614	23	3	19	8
682	carbonic anhydrase 2	4557395	29	4	22	8
683	synaptogyrin-2	4759202	25	2	8.00	8
684	eukaryotic translation initiation factor 6 isoform a	4504771	27	4	27	8
685	histidine triad nucleotide-binding protein 2, mitochondrial precursor	14211923	17	2	22	8
686	cytochrome b-c1 complex subunit 6, mitochondrial	83627705	11	3	48	8
687	sortilin isoform 1 preproprotein	17149834	92	3	4.60	8
688	actin-like protein 7A	5729720	49	4	15	8
689	cadherin-1 preproprotein	4757960	97	2	2.20	8
690	acyl-coenzyme A thioesterase 13 isoform 2	231567183	12	3	35	8
691	basement membrane-specific heparan sulfate proteoglycan core protein precursor	126012571	469	3	1.10	8
692	actin-related protein 3	5031573	47	4	13	8
693	metaxin-2	5729937	30	4	25	8
694	zymogen granule protein 16 homolog B precursor	94536866	23	4	34	8
695	prostaglandin E synthase	4758910	17	3	14	8
696	cell cycle control protein 50A isoform 1	8922720	41	3	9.10	8
697	low molecular weight phosphotyrosine protein phosphatase isoform c	4757714	18	3	20	8
698	72 type IV collagenase isoform a preproprotein	11342666	74	3	6.80	8
699	cytochrome b5 type B	83921614	17	3	44	8
700	vitronectin precursor	88853069	54	3	8.60	8
701	B-cell receptor-associated protein 31 isoform a	213511508	35	3	9.30	8
702	elongation factor 1-beta	4503477	25	4	26	8
703	thiamine-triphosphatase	13236577	26	4	38	8
704	importin-4	62460637	119	5	4.80	8
705	L-lactate dehydrogenase B chain	4557032	37	2	13	8
706	electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial precursor	119703746	68	5	10	8
707	eukaryotic translation initiation factor 3 subunit A	4503509	167	5	5.40	7
708	DPY30 domain-containing protein 1	20270377	21	3	20	7
709	leukocyte surface antigen CD47 isoform 1 precursor	4502673	35	2	5.90	7
710	phosphoglycerate mutase 1	4505753	29	2	33	7
711	15 selenoprotein isoform 1 precursor	42741648	18	3	25	7
712	long-chain-fatty-acid--CoA ligase 6 isoform e	327412327	79	5	11	7
713	ATP synthase subunit g, mitochondrial	51479156	11	4	23	7
714	matrilin-2 isoform a precursor	62548860	107	3	4.80	7
715	myotrophin	21956645	13	2	25	7
716	60S ribosomal protein L23	4506605	15	4	39	7
717	60S ribosomal protein L7a	4506661	30	3	15	7
718	inorganic pyrophosphatase	11056044	33	3	16	7
719	translin-associated protein X	5174731	33	4	19	7
720	putative peptidyl-tRNA hydrolase PTRHD1	61966781	16	3	25	7
721	myosin-VI	92859701	149	4	3.00	7
722	NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial precursor	4758792	14	3	31	7
723	ras-related protein Rab-5B isoform 1	354725902	24	3	19	7
724	multifunctional protein ADE2 isoform 2	5453539	47	4	12	7
725	proteasome subunit beta type-2 isoform 1	4506195	23	3	32	7

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
726	prostate and testis expressed protein 2 precursor	47086459	13	3	35	7
727	antileukoproteinase precursor	4507065	14	2	15	7
728	phospholipase A2, membrane associated precursor	239915991	16	3	23	7
729	chloride intracellular channel protein 4	7330335	29	2	10	7
730	EF-hand calcium-binding domain-containing protein 1 isoform a	13375787	24	4	27	7
731	serine/threonine-protein phosphatase 2A activator isoform b	29725611	37	2	13	7
732	quinone oxidoreductase isoform a	13236495	35	3	12	7
733	actin-related protein 2 isoform b	5031571	45	3	13	7
734	guanine nucleotide-binding protein G (o) subunit alpha isoform a	10567816	40	2	12	7
735	proteasome subunit beta type-6	23110925	25	3	25	7
736	mitochondrial import receptor subunit TOM22 homolog	9910382	16	4	58	7
737	grancalcin	6912388	24	3	18	7
738	tropomyosin alpha-4 chain isoform 1	223555975	33	3	15	7
739	60S ribosomal protein L12	4506597	18	4	38	7
740	lipocalin-15 precursor	42714611	20	3	15	7
741	inositol monophosphatase 1 isoform 2	221625487	37	3	13	7
742	eukaryotic translation initiation factor 3 subunit I	4503513	37	4	20	7
743	dihydropteridine reductase	208973246	26	3	21	7
744	ubiquitin carboxyl-terminal hydrolase 5 isoform 2	148727247	93	3	3.00	7
745	protein S100-A12	5032059	11	3	17	7
746	26S proteasome non-ATPase regulatory subunit 4	5292161	41	5	14	7
747	carcinoembryonic antigen-related cell adhesion molecule 8 precursor	21314600	38	3	12	7
748	alanyl-tRNA synthetase, cytoplasmic	109148542	107	5	5.70	7
749	40S ribosomal protein S17	4506693	16	3	43	7
750	surfeit locus protein 4	19557691	30	3	16	7
751	60S ribosomal protein L14	78000181	23	3	16	7
752	ras-related protein Rab-6A isoform b	38679888	24	2	17	7
753	DNA damage-binding protein 1	148529014	127	3	5.30	7
754	lysosomal Pro-X carboxypeptidase isoform 1 preproprotein	4826940	56	3	11	7
755	secretoglobulin family 1D member 2 precursor	5729909	10	2	22	7
756	L-amino-acid oxidase isoform 2 precursor	27477089	65	3	4.20	7
757	myeloid-associated differentiation marker	19923903	35	2	10	7
758	60S ribosomal protein L28 isoform 2	13904866	16	3	22	7
759	ADP-ribosyl cyclase 1	38454326	34	3	12	6
760	calpain-1 catalytic subunit	311893363	82	4	7.70	6
761	disintegrin and metalloproteinase domain-containing protein 7 preproprotein	114326453	86	2	3.30	6
762	actin-related protein M1	221139714	41	4	13	6
763	programmed cell death protein 6	7019485	22	3	18	6
764	metalloproteinase inhibitor 1 precursor	4507509	23	3	26	6
765	phosphoglycerate mutase 2	50593010	29	4	25	6
766	platelet-activating factor acetylhydrolase IB subunit beta isoform a	4505585	26	2	12	6
767	basigin isoform 2 precursor	38372925	29	3	17	6
768	carcinoembryonic antigen-related cell adhesion molecule 6 precursor	40255013	37	2	14	6
769	dnaJ homolog subfamily B member 1	5453690	38	2	5.60	6
770	mRNA export factor	62739173	41	2	7.10	6
771	acylamino-acid-releasing enzyme	23510451	81	3	7.00	6
772	fragile X mental retardation 1 neighbor protein	22749199	29	2	7.50	6
773	uncharacterized protein C6orf81	31542280	41	3	14	6
774	protein TSC21	22749357	21	3	26	6
775	40S ribosomal protein S4, X isoform X isoform	4506725	30	2	9.90	6
776	proteasome activator complex subunit 4	163644283	211	3	2.40	6
777	carboxypeptidase D isoform 1 precursor	22202611	153	5	7.70	6
778	prenylated Rab acceptor protein 1	222144309	21	2	16	6
779	cAMP-dependent protein kinase catalytic subunit alpha isoform 2	46909584	40	3	10	6
780	A disintegrin and metalloproteinase with thrombospondin motifs 1 preproprotein	50845384	105	3	5.90	6

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
781	dynein light chain roadblock-type 2	18702323	11	2	29	6
782	disintegrin and metalloproteinase domain-containing protein 29 preproprotein	73765552	93	3	4.40	6
783	EF-hand domain-containing protein KIAA0494	7662160	55	3	7.70	6
784	pro-cathepsin H preproprotein	23110955	37	2	8.40	6
785	PREDICTED: hypothetical protein LOC728597	341914388	72	3	4.90	6
786	prostate and testis expressed protein 4	221554530	11	2	23	6
787	adenylate kinase 2, mitochondrial isoform a	4502013	26	3	25	6
788	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7	10764847	16	2	12	6
789	fumarylacetoacetate hydrolase domain-containing protein 2B	40786394	35	3	17	6
790	HD domain-containing protein 2	116875826	23	3	18	6
791	spermatogenesis-associated protein 19, mitochondrial precursor	28376652	19	2	15	6
792	vesicle-trafficking protein SEC22b precursor	94429050	25	2	15	6
793	neuropilin-1 isoform a precursor	182508169	103	2	4.60	6
794	diablo homolog, mitochondrial isoform 1 precursor	9845297	27	2	8.40	6
795	meiosis-specific nuclear structural protein 1	8922950	61	4	9.10	6
796	UDP-glucose: glycoprotein glucosyltransferase 1 precursor	9910280	177	3	2.80	6
797	late cornified envelope-like proline-rich protein 1	58082087	11	2	42	6
798	up-regulated during skeletal muscle growth protein 5	14249376	6	2	43	6
799	alpha-galactosidase A precursor	4504009	49	3	9.10	6
800	thioredoxin reductase 2, mitochondrial precursor	22035672	57	2	7.80	6
801	transketolase-like protein 1 isoform b	225637461	65	2	5.10	6
802	PITH domain-containing protein 1	21361837	24	3	24	6
803	tyrosyl-tRNA synthetase, cytoplasmic	4507947	59	4	10	6
804	40S ribosomal protein S18	11968182	18	2	13	6
805	ras-related C3 botulinum toxin substrate 1 isoform Rac1b	9845509	23	2	9.00	6
806	RPS10-NUDT3 protein	321117084	33	3	14	6
807	40S ribosomal protein S12	14277700	15	3	30	6
808	COP9 signalosome complex subunit 8 isoform 1	5729779	23	2	17	6
809	agouti-related protein precursor	4501995	14	2	14	6
810	ferritin light chain	20149498	20	2	18	6
811	ATP5J2-PTCD1 fusion protein	311893396	84	2	3.20	6
812	galectin-1	4504981	15	2	18	6
813	plasma glutamate carboxypeptidase precursor	7706387	52	2	4.20	6
814	6-phosphofructokinase, muscle type isoform 1	266453619	93	4	6.30	6
815	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3A	22749415	81	3	4.50	6
816	nucleoporin p58/p45 isoform a	30102928	61	2	4.80	6
817	transmembrane protein 205	63055043	21	2	16	6
818	reactive oxygen species modulator 1	18152785	8	2	28	6
819	60S ribosomal protein L22 proprotein	4506613	15	2	19	6
820	transforming protein RhoA precursor	10835049	22	4	27	5
821	testis, prostate and placenta-expressed protein isoform 2 precursor	154759245	31	3	18	5
822	40S ribosomal protein S15a	71772415	15	3	25	5
823	tetratricopeptide repeat protein 25	13899233	77	2	5.20	5
824	lysosomal alpha-glucosidase preproprotein	119393891	105	3	4.30	5
825	aflatoxin B1 aldehyde reductase member 2	41327764	40	3	12	5
826	titin isoform N2-A	291045225	3713	3	0.08	5
827	serine/threonine-protein phosphatase PP1-beta catalytic subunit isoform 1	4506005	37	3	14	5
828	coiled-coil domain-containing protein 63	22749217	66	2	5.50	5
829	stromal cell-derived factor 2-like protein 1 precursor	56243533	24	3	24	5
830	thioredoxin domain-containing protein 2 isoform 2	148727319	60	2	3.30	5
831	phospholipase A1 member A isoform 2 precursor	332688256	48	2	7.30	5
832	mitochondrial import receptor subunit TOM34	21361356	35	2	9.40	5
833	mammaglobin-B precursor	4505171	11	2	32	5
834	metalloproteinase inhibitor 3 precursor	4507513	24	2	11	5
835	trafficking protein particle complex subunit 3	7656926	20	2	13	5

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
836	bifunctional purine biosynthesis protein PURH	20127454	65	3	10.00	5
837	sarcoplasmic/endoplasmic reticulum calcium ATPase 2 isoform b	24638454	115	2	2.30	5
838	guanine nucleotide-binding protein G (I)/G (S)/G (T) subunit beta-2	20357529	37	3	14	5
839	membrane cofactor protein isoform 4 precursor	24432108	43	2	6.00	5
840	coiled-coil-helix-coiled-coil-helix domain-containing protein 6	14150134	26	2	14	5
841	acyl carrier protein, mitochondrial precursor	4826852	17	2	15	5
842	peptidase inhibitor 15 preproprotein	7705676	29	2	10	5
843	protein OS-9 isoform 1 precursor	5803109	76	3	7.00	5
844	integrin beta-1 isoform 1D precursor	19743819	89	3	6.40	5
845	acyl-CoA-binding protein isoform 5	295842514	14	2	28	5
846	shootin-1 isoform a	187761324	72	3	5.50	5
847	carnitine O-palmitoyltransferase 1, muscle isoform isoform a	223468678	88	3	4.90	5
848	WD repeat-containing protein 65 isoform a	345199335	149	2	2.00	5
849	guanine nucleotide-binding protein subunit beta-2- like 1	5174447	35	2	8.50	5
850	dynein light chain Tctex-type 1	5730085	12	2	30	5
851	thioredoxin-dependent peroxide reductase, mitochondrial isoform b	32483377	26	2	11	5
852	calmegin precursor	4758004	70	2	6.20	5
853	cell division control protein 42 homolog isoform 1	4757952	21	3	17	5
854	eukaryotic translation initiation factor 3 subunit K	10801345	25	2	13	5
855	solute carrier family 2, facilitated glucose transporter member 5 isoform 1	4507013	55	2	6.40	5
856	60S ribosomal protein L35a	16117791	13	4	16	5
857	Sjogren syndrome nuclear autoantigen 1	189571687	14	2	20	5
858	cystatin-C precursor	4503107	16	2	18	5
859	minor histocompatibility antigen H13 isoform 1	23308607	41	2	9.50	5
860	UPF0733 protein C2orf88	110349742	11	3	40	5
861	V-type proton ATPase subunit d 1	19913432	40	2	6.80	5
862	izumo sperm-egg fusion protein 2 precursor	63999117	25	2	11	5
863	40S ribosomal protein S19	4506695	16	3	20	5
864	chitinase domain-containing protein 1 isoform a	218083142	45	2	9.70	5
865	60S ribosomal protein L5	14591909	34	3	14	5
866	UPF0740 protein C1orf192	63029930	19	2	15	5
867	voltage-dependent calcium channel subunit alpha-2/delta-2 isoform c	291290994	130	2	2.30	5
868	ras GTPase-activating-like protein IQGAP2	116089337	181	4	3.80	5
869	cystatin-S precursor	4503109	16	2	18	5
870	vesicle transport protein GOT1B	7705636	15	2	20	5
871	bactericidal permeability-increasing protein precursor	157276599	54	2	8.20	5
872	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5	4826848	13	2	16	5
873	S-phase kinase-associated protein 1 isoform b	25777713	19	2	25	5
874	eukaryotic translation initiation factor 3 subunit M	23397429	43	3	16	5
875	dipeptidase 1 precursor	4758190	46	3	12	5
876	dynactin subunit 3 isoform 1	6005745	21	2	10	5
877	40S ribosomal protein S25	4506707	14	2	16	5
878	ubiquitin thioesterase OTUB2	12962939	27	2	9.00	5
879	40S ribosomal protein S20 isoform 1	226246671	16	2	16	5
880	apolipoprotein O precursor	13129148	22	2	11	5
881	nitrilase homolog 1 isoform 3	297632348	34	2	5.40	5
882	serine/threonine-protein phosphatase 2B catalytic subunit alpha isoform isoform 2	194688147	58	2	4.10	5
883	cytochrome b5 domain-containing protein 1	40255060	27	2	11	5
884	UDP-N-acetylhexosamine pyrophosphorylase	156627575	57	2	5.70	5
885	talin-1	223029410	270	2	1.40	5
886	beta-hexosaminidase subunit beta preproprotein	4504373	63	3	7.90	5
887	histidine triad nucleotide-binding protein 3	189217863	20	3	21	5
888	ankyrin repeat domain-containing protein 45	38348298	30	2	11	5
889	nucleoside diphosphate kinase 7 isoform a	7019465	42	3	9.80	5
890	protein DPCD	39930355	23	3	14	5

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Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
891	peptidyl-prolyl cis-trans isomerase F, mitochondrial precursor	5031987	22	2	17	5
892	uncharacterized protein C19orf71	207442677	24	2	14	5
893	heterogeneous nuclear ribonucleoprotein U isoform a	74136883	91	2	3.90	5
894	sphingomyelin phosphodiesterase isoform 2 precursor	300795589	70	2	3.80	5
895	ERO1-like protein alpha precursor	7657069	54	2	6.80	5
896	ATP synthase subunit delta, mitochondrial precursor	50345991	17	2	18	4
897	serine/threonine-protein phosphatase with EF-hands 1 isoform 1b	23312374	73	3	5.30	4
898	complement decay-accelerating factor isoform 2 precursor	168693643	49	3	6.60	4
899	transgelin-2	4507357	22	2	13	4
900	protein NipSnap homolog 3A	22267436	28	2	9.70	4
901	protein FAM71A	282721094	63	3	6.60	4
902	platelet-activating factor acetylhydrolase precursor	270133071	50	2	9.80	4
903	sorcin isoform b	38679884	20	3	17	4
904	sialic acid synthase	12056473	40	3	11	4
905	phosphatidylinositol-5-phosphate 4-kinase type-2 gamma isoform a	226371739	47	2	7.40	4
906	dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit DAD1	4503253	12	2	19	4
907	60S ribosomal protein L13a	6912634	24	2	8.90	4
908	3-mercaptopyruvate sulfurtransferase isoform 2	61835204	33	2	14	4
909	glycyl-tRNA synthetase precursor	116805340	83	2	3.10	4
910	UPF0587 protein C1orf123	8923541	18	2	25	4
911	UPF0556 protein C19orf10 precursor	33457348	19	2	14	4
912	SPARC-related modular calcium-binding protein 2 isoform 1 precursor	24308277	51	3	7.20	4
913	lysozyme-like protein 6 precursor	9966905	17	2	36	4
914	protein FAM162A	49355721	17	2	20	4
915	transmembrane emp24 domain-containing protein 1 precursor	5803040	25	2	9.70	4
916	S-formylglutathione hydrolase	33413400	31	2	16	4
917	carboxypeptidase M precursor	6631081	51	2	7.90	4
918	aspartyl-tRNA synthetase, cytoplasmic	45439306	57	3	9.80	4
919	60S ribosomal protein L27a	4506625	17	2	16	4
920	prohibitin-2 isoform 2	6005854	33	2	8.40	4
921	inosine-5'-monophosphate dehydrogenase 2	66933016	56	2	6.00	4
922	protein sel-1 homolog 1 isoform 1 precursor	19923669	89	2	5.20	4
923	non-specific lipid-transfer protein isoform 1 proprotein	19923233	59	3	5.70	4
924	sepiapterin reductase	4507185	28	2	11	4
925	cytosolic Fe-S cluster assembly factor NUBP2	6912540	29	2	20	4
926	brain protein 44-like protein 2	306922396	15	2	25	4
927	UBX domain-containing protein 11 isoform 1	116734681	54	4	14	4
928	amyloid beta A4 protein isoform d	209862833	85	2	2.70	4
929	glutaminy-peptide cyclotransferase precursor	6912618	41	2	13	4
930	prefoldin subunit 2	12408675	17	2	17	4
931	syntaxin-3 isoform 1	4759184	33	3	15	4
932	lipase member I	39752679	55	2	4.20	4
933	ADP-ribosylation factor 6	4502211	20	2	12	4
934	purine nucleoside phosphorylase	157168362	32	2	9.70	4
935	isoleucyl-tRNA synthetase, cytoplasmic	94721239	145	2	1.50	4
936	ATP synthase subunit e, mitochondrial	6005717	8	2	30	4
937	drebrin-like protein isoform c	171906575	49	2	7.10	4
938	protein transport protein Sec61 subunit beta	5803165	10	2	27	4
939	peptidase M20 domain-containing protein 2	58082085	48	2	7.60	4
940	peptidyl-prolyl cis-trans isomerase FKBP11 isoform 1 precursor	7706131	22	2	14	4
941	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8, mitochondrial precursor	4826854	22	2	11	4
942	transcriptional activator protein Pur-alpha	5032007	35	2	11	4
943	cytochrome b-c1 complex subunit 9 isoform a	41281885	7	2	38	4
944	neurofilament heavy polypeptide	32483416	112	2	2.50	4
945	mitochondrial dicarboxylate carrier	20149598	31	2	11	4

Contd...

Supplementary Table 7: Contd...

No	Protein	Accession number	Mass (kDa)	Peptides number	Sequence coverage (%)	Spectral counts
946	COP9 signalosome complex subunit 7a	7705330	30	2	9.50	4
947	resistin precursor	301129180	11	2	24	4
948	phosphoacetylglucosamine mutase isoform 1	315707006	63	3	8.20	4
949	6-phosphofructokinase, liver type	48762920	85	2	3.60	4
950	four and a half LIM domains protein 1 isoform 1	228480211	36	2	7.10	4
951	protein phosphatase 1A isoform 3	193211600	51	2	6.60	4
952	espin	110431370	92	2	3.30	4
953	mitochondrial 2-oxoglutarate/malate carrier protein isoform 1	21361114	34	2	9.60	4
954	cullin-3	4503165	89	2	4.70	4
955	serine/threonine-protein phosphatase PGAM5, mitochondrial isoform 1	281604136	32	2	7.60	4
956	SPRY domain-containing protein 7 isoform 1	20531765	22	2	13	4
957	hsp90 co-chaperone Cdc37	5901922	44	2	6.60	4
958	glutaredoxin-3	95113651	37	3	15	4
959	aminoacyl tRNA synthase complex-interacting multifunctional protein 1 isoform b precursor	215490011	37	2	12	4
960	glypican-3 isoform 1 precursor	257471006	68	2	5.30	4
961	60S ribosomal protein L26	4506621	17	2	11	4
962	myosin-Ic isoform a	124494238	122	3	3.80	4
963	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 11 isoform 2	301129187	23	2	15	4
964	cathepsin L1 preproprotein	4503155	38	2	9.30	4
965	cytosolic purine 5'-nucleotidase	6912598	65	2	4.10	4
966	uncharacterized protein LOC730159 precursor	304434806	21	2	14	4
967	eukaryotic translation initiation factor 3 subunit E	4503521	52	2	7.00	4
968	disintegrin and metalloproteinase domain-containing protein 30 preproprotein	31881770	89	2	2.80	3
969	ras-related protein Rap-1b isoform 1 precursor	7661678	21	2	12	3
970	vesicle-associated membrane protein 8	14043026	11	2	19	3
971	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 2 isoform 1	4505355	11	2	31	3
972	tubulin polymerization-promoting protein family member 2	226491350	19	3	29	3
973	nicotinamide phosphoribosyltransferase precursor	5031977	56	3	10	3
974	endophilin-A3	223468657	39	2	7.80	3
975	peroxisomal multifunctional enzyme type 2 isoform 2	4504505	80	2	5.40	3
976	UDP-glucuronic acid decarboxylase 1 isoform 1	359751462	48	2	7.80	3
977	cytochrome c oxidase subunit 6C proprotein	4758040	9	2	28	3
978	asparaginyl-tRNA synthetase, cytoplasmic	4758762	63	2	4.20	3
979	nucleophosmin isoform 1	10835063	33	2	17	3
980	carnitine O-acetyltransferase precursor	21618331	71	3	7.50	3
981	AMY-1-associating protein expressed in testis 1	38569419	90	2	3.00	3
982	nucleoporin NUP53	31982904	35	2	9.80	3
983	aldehyde dehydrogenase family 1 member A3	153266822	56	2	5.70	3
984	thioredoxin domain-containing protein 12 precursor	7705696	19	2	14	3
985	outer dense fiber protein 1	194248060	28	3	12	3
986	adenylate kinase domain-containing protein 1 isoform 1	237858799	221	3	1.60	3
987	60S ribosomal protein L4	16579885	48	2	4.90	3
988	disintegrin and metalloproteinase domain-containing protein 10 precursor	4557251	84	2	2.50	3
989	fibulin-2 isoform a precursor	51873053	132	2	2.30	3
990	glutaminyl-tRNA synthetase	4826960	88	2	3.10	3
991	uncharacterized protein C15orf26	148747373	34	3	16	3
992	coiled-coil domain-containing protein 164	217416374	87	2	3.40	3
993	coatamer subunit delta isoform 1	11863154	57	2	4.50	3
994	myoferlin isoform b	19718759	233	2	1.20	3
995	signal recognition particle receptor subunit beta	284795266	30	2	12	3
996	large proline-rich protein BAG6 isoform a	149158692	119	2	3.50	2
997	protein arginine N-methyltransferase 5 isoform a	20070220	73	2	3.50	2
998	nidogen-1 precursor	115298674	136	2	3.40	2
999	coiled-coil domain-containing protein 40 isoform 1	148664197	130	2	2.10	2
1000	coiled-coil domain-containing protein 151	117553613	69	2	3.40	2

Contd...

Supplementary Table 7: 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>
1001	inositol-3-phosphate synthase 1 isoform 2	283135176	55	2	7.50	2
1002	transthyretin precursor	4507725	16	2	31	2
1003	protein EAN57 isoform 1	255759947	31	2	6.80	2
1004	ubiquitin carboxyl-terminal hydrolase isozyme L1	21361091	25	2	14	2
1005	RIB43A-like with coiled-coils protein 1 isoform 1	72534784	44	2	12	2
1006	40S ribosomal protein S27	4506711	9	2	25	2
1007	dnaJ homolog subfamily C member 5	45504382	22	2	7.60	2
1008	60S ribosomal protein L3 isoform a	4506649	46	2	8.40	2
1009	RIB43A-like with coiled-coils protein 2	241666448	45	2	4.80	2
1010	zinc finger protein basonuclin-2	94721327	122	2	2.80	2
1011	60S ribosomal protein L6	16753227	33	2	8.70	2
1012	coatomer subunit gamma	11559929	98	2	3.00	2
1013	sperm-associated antigen 11A precursor	126032340	12	2	19	2
1014	chloride intracellular channel protein 3	40288290	27	2	16	2
1015	guanine nucleotide-binding protein G (I)/G (S)/G (O) subunit gamma-12 precursor	51036603	8	2	32	2
1016	adapter molecule crk isoform a	41327712	34	2	11	2
1017	succinyl-CoA: 3-ketoacid-coenzyme A transferase 2, mitochondrial precursor	11545841	56	2	10	2