

Table S1 Summary of the proteins quantitatively identified with 95% confidence in the iTRAQ study

Unused score	%Cov	Peptide No.	Accession No	SWISS Prot ID	Protein name	Fold (MKR/WT)	S.D.
2	14.42	2	SC22B_MOUSE	O08547	Vesicle-trafficking protein SEC22b	1.20	0.07
15.96	30.59	10	DPYL2_MOUSE	O08553	Dihydropyrimidinase-related protein 2	0.73	0.17
10.37	43.75	7	PRDX6_MOUSE	O08709	Peroxiredoxin-6	1.17	0.14
8	14.54	5	DLDH_MOUSE	O08749	Dihydrolipoyl dehydrogenase, mitochondrial precursor	0.81	0.03
10.11	11.52	9	GLU2B_MOUSE	O08795	Glucosidase 2 subunit beta precursor	1.80	0.25
3.22	7.18	5	COPB2_MOUSE	O55029	Coatomer subunit beta'	1.40	0.47
8.79	18.97	12	AT2A2_MOUSE	O55143	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	0.63	0.26
5.62	41.33	5	EF1B_MOUSE	O70251	Elongation factor 1-beta	1.65	0.71
4	23.33	6	DDC_MOUSE	O88533	Aromatic-L-amino-acid decarboxylase	0.86	0.25
11.58	26.63	7	ROA2_MOUSE	O88569	Heterogeneous nuclear ribonucleoproteins A2/B1	0.84	0.17
2.95	8.94	3	IDHC_MOUSE	O88844	Isocitrate dehydrogenase [NADP] cytoplasmic	1.41	0.23
10	27.73	5	ADH1_MOUSE	P00329	Alcohol dehydrogenase 1	1.18	0.38
4	13.22	2	COX2_MOUSE	P00405	Cytochrome c oxidase subunit 2	0.66	0.15
2	5.87	2	AMYS_MOUSE	P00687	Alpha-amylase 1 precursor	1.35	0.29
6.25	18.31	7	AMYP_MOUSE	P00688	Pancreatic alpha-amylase precursor	1.21	0.41
8.51	70.37	5	INS1_MOUSE	P01325	Insulin-1 precursor	0.50	0.13
12	75.45	5	INS2_MOUSE	P01326	Insulin-2 precursor	0.74	0.29
6.84	62.68	6	HBA_MOUSE	P01942	Hemoglobin subunit alpha	0.91	0.29
9.65	88.44	11	HBB1_MOUSE	P02088	Hemoglobin subunit beta-1	0.89	0.22
16.67	76.19	10	HBB2_MOUSE	P02089	Hemoglobin subunit beta-2	0.98	0.25
6.47	17.91	5	AATM_MOUSE	P05202	Aspartate aminotransferase, mitochondrial precursor	0.69	0.08
24.84	47.89	16	TBA2_MOUSE	P05213	Tubulin alpha-2 chain	1.11	0.13
8.05	13.44	6	G6PI_MOUSE	P06745	Glucose-6-phosphate isomerase	1.17	0.27
5.15	18.55	13	HS90A_MOUSE	P07901	Heat shock protein HSP 90-alpha	1.08	0.27
19.81	30.56	16	PDIA4_MOUSE	P08003	Protein disulfide-isomerase A4 precursor	2.59	0.69
56.31	49.38	29	ENPL_MOUSE	P08113	Endoplasmic precursor	2.86	0.89
4	17.53	2	SODC_MOUSE	P08228	Superoxide dismutase [Cu-Zn]	0.88	0.49

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21.64	49.41	12	MDHM_MOUSE	P08249	Malate dehydrogenase, mitochondrial precursor	0.89	0.27
54.48	71.12	34	PDIA1_MOUSE	P09103	Protein disulfide-isomerase precursor	2.43	0.51
2.6	6.79	5	NUCL_MOUSE	P09405	Nucleolin	0.96	0.34
7.68	27.34	10	PGK1_MOUSE	P09411	Phosphoglycerate kinase 1	1.20	0.02
2.81	25.23	4	SODM_MOUSE	P09671	Superoxide dismutase [Mn], mitochondrial precursor	0.75	0.13
23.08	48.92	13	EF1A1_MOUSE	P10126	Elongation factor 1-alpha 1	1.77	0.43
2.67	42.86	5	THIO_MOUSE	P10639	Thioredoxin	1.53	0.28
2	11.03	4	4F2_MOUSE	P10852	4F2 cell-surface antigen heavy chain (4F2hc)	1.02	0.02
2.02	10.82	3	H10_MOUSE	P10922	Histone H1.0	1.06	0.88
15.9	26.8	18	HS90B_MOUSE	P11499	Heat shock protein HSP 90-beta	0.94	0.07
4.55	13.06	6	K2C8_MOUSE	P11679	Keratin, type II cytoskeletal 8	1.21	0.01
2.04	35.86	4	COX5A_MOUSE	P12787	Cytochrome c oxidase subunit 5A, mitochondrial precursor	0.69	0.22
10.05	60.38	6	7B2_MOUSE	P12961	Neuroendocrine protein 7B2 precursor	0.56	0.22
3.22	23.66	3	IAPP_MOUSE	P12968	Islet amyloid polypeptide precursor	0.79	0.30
2	8.65	2	RL7A_MOUSE	P12970	60S ribosomal protein L7a	1.51	0.13
14	30.84	8	MDHC_MOUSE	P14152	Malate dehydrogenase, cytoplasmic	1.31	0.16
4.58	38.98	7	RSSA_MOUSE	P14206	40S ribosomal protein SA	1.27	0.09
27.6	59.62	18	CALR_MOUSE	P14211	Calreticulin precursor	1.63	0.37
2	8.41	3	GTR2_MOUSE	P14246	Solute carrier family 2, facilitated glucose transporter member 2	0.42	0.13
20.44	25.85	15	ANXA6_MOUSE	P14824	Annexin A6	1.24	0.17
6	40.06	10	RLA0_MOUSE	P14869	60S acidic ribosomal protein P0	1.01	0.20
5.7	58.55	9	NDKA_MOUSE	P15532	Nucleoside diphosphate kinase A	1.13	0.20
3.1	13.76	4	GSTM2_MOUSE	P15626	Glutathione S-transferase Mu 2	0.73	0.14
5.58	8.86	5	SCG1_MOUSE	P16014	Secretogranin-1 precursor	0.56	0.19
12.79	11.37	17	SPTA2_MOUSE	P16546	Spectrin alpha chain, brain	0.89	0.10
16.83	49.55	12	G3P_MOUSE	P16858	Glyceraldehyde-3-phosphate dehydrogenase	1.72	0.68
18.05	42.17	12	ENOA_MOUSE	P17182	Alpha-enolase	2.35	0.96
4	17.97	5	ENOG_MOUSE	P17183	Gamma-enolase	0.81	0.33

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Unused score	%Cov	Peptide No.	Accession No	SWISS Prot ID	Protein name	Fold (MKR/WT)	S.D.
1.4	5.31	2	PTBP1_MOUSE	P17225	Polypyrimidine tract-binding protein 1	1.09	0.33
9.94	42.07	6	PPIA_MOUSE	P17742	Peptidyl-prolyl cis-trans isomerase A	0.71	0.08
9.85	37.75	7	TPIS_MOUSE	P17751	Triosephosphate isomerase	0.98	0.14
4.06	12.68	3	CATD_MOUSE	P18242	Cathepsin D precursor	1.29	0.25
5.7	30.12	5	COF1_MOUSE	P18760	Cofilin-1 (Cofilin, non-muscle isoform)	1.14	0.14
2.96	15.98	2	COX41_MOUSE	P19783	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial precursor	0.70	0.27
72.06	60.76	38	GRP78_MOUSE	P20029	78 kDa glucose-regulated protein precursor	2.25	0.72
3.91	25.7	6	TPM3_MOUSE	P21107	Tropomyosin alpha-3 chain	1.13	0.53
4.4	44.29	4	CYTC_MOUSE	P21460	Cystatin-C precursor	0.58	0.06
14.59	25.75	13	NEC2_MOUSE	P21661	Neuroendocrine convertase 2 precursor	0.54	0.14
5.05	28.37	4	PPIB_MOUSE	P24369	Peptidyl-prolyl cis-trans isomerase B precursor	1.61	0.27
3.72	19.11	5	RS2_MOUSE	P25444	40S ribosomal protein S2	1.38	0.10
16.83	31.32	10	CMGA_MOUSE	P26339	Chromogranin A precursor	0.31	0.16
6.96	10.22	4	DHE3_MOUSE	P26443	Glutamate dehydrogenase 1, mitochondrial precursor	0.58	0.17
6	20.25	3	PSD7_MOUSE	P26516	26S proteasome non-ATPase regulatory subunit 7	1.47	0.25
56.54	57.54	26	PDIA3_MOUSE	P27773	Protein disulfide-isomerase A3 precursor	1.62	0.35
5.1	75.86	5	ACBP_MOUSE	P31786	Acyl-CoA-binding protein (ACBP)	0.89	0.06
2	8.19	3	LA_MOUSE	P32067	Lupus La protein homolog	0.86	0.35
1.51	5.41	2	SYWC_MOUSE	P32921	Tryptophanyl-tRNA synthetase, cytoplasmic	0.84	0.03
2	9.59	2	RAB3D_MOUSE	P35276	Ras-related protein Rab-3D	0.77	0.05
15.39	26.73	13	CALX_MOUSE	P35564	Calnexin precursor	1.17	0.37
12.1	43.72	6	PRDX1_MOUSE	P35700	Peroxiredoxin-1	1.34	0.28
4	27.88	4	RL12_MOUSE	P35979	60S ribosomal protein L12	1.12	0.07
14.55	18.26	10	GRP75_MOUSE	P38647	Stress-70 protein, mitochondrial precursor	1.00	0.13
5.52	14.56	4	CAP1_MOUSE	P40124	Adenylyl cyclase-associated protein 1	0.89	0.02
7.52	16.05	6	TKT_MOUSE	P40142	Transketolase	0.89	0.09
2.08	8.54	3	ALDR_MOUSE	P45376	Aldose reductase	0.86	0.07
12	55.71	6	FKBP2_MOUSE	P45878	FK506-binding protein 2 precursor	1.69	0.51

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6	26.19	3	GSTP2_MOUSE	P46425	Glutathione S-transferase P 2	0.90	0.07
14.07	37.79	13	SCG3_MOUSE	P47867	Secretogranin-3 precursor	0.37	0.14
4	51.75	2	RLA1_MOUSE	P47955	60S acidic ribosomal protein P1	1.34	0.16
2.15	34.51	2	EIF1_MOUSE	P48024	Eukaryotic translation initiation factor 1 (eIF1)	1.66	0.22
23.51	42.32	14	ANXA5_MOUSE	P48036	Annexin A5	0.70	0.15
12.15	15.94	11	LMNA_MOUSE	P48678	Lamin-A/C	0.92	0.21
4.01	15.77	4	ADT1_MOUSE	P48962	ADP/ATP translocase 1	0.63	0.12
6	25.94	7	ROA1_MOUSE	P49312	Heterogeneous nuclear ribonucleoprotein A1	1.06	0.09
6.01	41.88	6	PSA2_MOUSE	P49722	Proteasome subunit alpha type 2	1.46	0.04
2	11.67	2	IMDH1_MOUSE	P50096	Inosine-5'-monophosphate dehydrogenase 1	2.75	0.32
4	14.54	3	GDIA_MOUSE	P50396	Rab GDP dissociation inhibitor alpha	1.48	0.10
8.11	23.01	10	VATA1_MOUSE	P50516	Vacuolar ATP synthase catalytic subunit A, ubiquitous isoform	0.79	0.18
4.02	22.81	4	VATE_MOUSE	P50518	Vacuolar ATP synthase subunit E	0.89	0.05
4	27.55	2	S10AB_MOUSE	P50543	Protein S100-A11	1.12	0.21
6.02	16.44	5	ADT2_MOUSE	P51881	ADP/ATP translocase 2	0.75	0.14
26.04	45.39	16	KPYM_MOUSE	P52480	Pyruvate kinase isozyme M2	1.24	0.25
7.4	22.58	4	RL10A_MOUSE	P53026	60S ribosomal protein L10a	1.34	0.29
2.42	34.43	5	RAB2A_MOUSE	P53994	Ras-related protein Rab-2A	0.91	0.03
10.72	25.19	11	IDHP_MOUSE	P54071	Isocitrate dehydrogenase [NADP], mitochondrial precursor	0.64	0.10
4	9.81	4	PRS6B_MOUSE	P54775	26S protease regulatory subunit 6B	1.40	0.27
14.96	66.67	10	GLUC_MOUSE	P55095	Glucagon precursor	0.23	0.10
2	46.59	2	ATPK_MOUSE	P56135	ATP synthase f chain, mitochondrial	0.75	0.09
31.34	60.49	23	ATPB_MOUSE	P56480	ATP synthase subunit beta, mitochondrial precursor	0.82	0.07
6.08	19.85	4	ERP29_MOUSE	P57759	Endoplasmic reticulum protein ERp29 precursor	2.40	0.41
6	28.47	5	EF1D_MOUSE	P57776	Elongation factor 1-delta	1.15	0.06
17.06	28.73	18	ACTN4_MOUSE	P57780	Alpha-actinin-4 (Non-muscle alpha-actinin 4)	1.05	0.36
34.09	33.45	22	EF2_MOUSE	P58252	Elongation factor 2 (EF-2)	1.12	0.13
2	6.76	2	IF5_MOUSE	P59325	Eukaryotic translation initiation factor 5	1.45	0.22

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Unused score	%Cov	Peptide No.	Accession No	SWISS Prot ID	Protein name	Fold (MKR/WT)	S.D.
2	15.52	3	SMS_MOUSE	P60041	Somatostatin precursor	0.29	0.04
21.75	53.6	14	ACTB_MOUSE	P60710	Actin, cytoplasmic 1	1.02	0.22
2.32	16.75	3	CDC42_MOUSE	P60766	Cell division control protein 42 homolog precursor	0.99	0.16
5.53	24.38	7	IF4A1_MOUSE	P60843	Eukaryotic initiation factor 4A-I	1.08	0.18
2.11	13	2	RAB10_MOUSE	P61027	Ras-related protein Rab-10	0.83	0.07
5.05	58.82	3	UFM1_MOUSE	P61961	Ubiquitin-fold modifier 1 precursor	1.94	0.51
11.23	23.54	8	HNRPK_MOUSE	P61979	Heterogeneous nuclear ribonucleoprotein K	0.74	0.15
3.52	25.91	6	1433G_MOUSE	P61982	14-3-3 protein gamma	1.15	0.17
2.25	22.27	6	PRS4_MOUSE	P62192	26S protease regulatory subunit 4	1.03	0.05
6	36.91	3	CALM_MOUSE	P62204	Calmodulin (CaM)	1.04	0.17
2.41	19.23	5	RS8_MOUSE	P62242	40S ribosomal protein S8	0.91	0.16
2	15.38	2	RS15A_MOUSE	P62245	40S ribosomal protein S15a	1.61	0.29
3.7	32.94	7	1433E_MOUSE	P62259	14-3-3 protein epsilon	1.01	0.26
2.15	15.13	3	RS18_MOUSE	P62270	40S ribosomal protein S18	1.56	0.09
2.12	18.54	3	RS13_MOUSE	P62301	40S ribosomal protein S13	1.30	0.14
12.68	43.69	6	H4_MOUSE	P62806	Histone H4	0.52	0.19
2	7.24	2	VATB2_MOUSE	P62814	Vacuolar ATP synthase subunit B, brain isoform	0.54	0.05
4.31	20.49	3	RAB1A_MOUSE	P62821	Ras-related protein Rab-1A	1.48	0.11
2	13.59	2	RAP1A_MOUSE	P62835	Ras-related protein Rap-1A precursor	0.93	0.12
4.44	28.8	5	RS25_MOUSE	P62852	40S ribosomal protein S25	1.53	0.19
9.67	57.14	5	CYC_MOUSE	P62897	Cytochrome c, somatic	1.35	0.03
3.69	15.64	3	RS3_MOUSE	P62908	40S ribosomal protein S3	1.59	0.95
4	46.43	4	PROF1_MOUSE	P62962	Profilin-1 (Profilin I)	1.06	0.15
4.55	60.53	5	UBIQ_MOUSE	P62991	Ubiquitin	1.08	0.22
3	10.91	2	RAB3A_MOUSE	P63011	Ras-related protein Rab-3A	0.69	0.04
35	42.72	24	HSP7C_MOUSE	P63017	Heat shock cognate 71 kDa protein	0.96	0.13
4	15.7	2	TCTP_MOUSE	P63028	Translationally-controlled tumor protein	1.36	0.12
30.23	52.01	19	CH60_MOUSE	P63038	60 kDa heat shock protein, mitochondrial precursor	0.90	0.14
8	35.34	4	VAMP2_MOUSE	P63044	Vesicle-associated membrane protein 2	0.59	0.05

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9.29	35.51	7	1433Z_MOUSE	P63101	14-3-3 protein zeta/delta	0.91	0.22
6.75	38.6	7	HMGB1_MOUSE	P63158	High mobility group protein B1	0.71	0.25
2.49	6.51	4	NEC1_MOUSE	P63239	Neuroendocrine convertase 1 precursor	0.65	0.20
6.06	35.71	4	IF5A1_MOUSE	P63242	Eukaryotic translation initiation factor 5A-1	1.51	0.20
7.52	48.89	4	RS17_MOUSE	P63276	40S ribosomal protein S17	1.10	0.10
3.77	21.97	4	RS12_MOUSE	P63323	40S ribosomal protein S12	0.98	0.68
2.42	20	3	RS10_MOUSE	P63325	40S ribosomal protein S10	1.39	0.16
2.3	11.76	2	PHB_MOUSE	P67778	Prohibitin	0.54	0.08
3	42.18	12	ACTC_MOUSE	P68033	Actin, alpha cardiac muscle 1	0.93	0.13
5.1	39.18	9	1433T_MOUSE	P68254	14-3-3 protein theta	0.99	0.11
33.52	64.04	19	TBB2C_MOUSE	P68372	Tubulin beta-2C chain	1.29	0.39
2	20.33	5	1433F_MOUSE	P68510	14-3-3 protein eta	0.87	0.08
1.53	10.05	6	IMB1_MOUSE	P70168	Importin beta-1 subunit	0.76	0.09
13.97	69.52	8	PEBP1_MOUSE	P70296	Phosphatidylethanolamine-binding protein 1	1.04	0.10
4.47	41.27	3	HINT1_MOUSE	P70349	Histidine triad nucleotide-binding protein 1	0.99	0.20
4	6.72	8	NACAM_MOUSE	P70670	Nascent polypeptide-associated complex subunit alpha, muscle-specific form	1.69	0.24
3.7	8.5	4	LYAG_MOUSE	P70699	Lysosomal alpha-glucosidase precursor	1.97	0.33
3.72	6.1	3	TCPE_MOUSE	P80316	T-complex protein 1 subunit epsilon	1.15	0.04
2	13.94	6	TCPZ_MOUSE	P80317	T-complex protein 1 subunit zeta	1.11	0.49
20.61	41.19	14	NUCB2_MOUSE	P81117	Nucleobindin-2 precursor	2.25	0.41
4.61	28.73	4	ARF1_MOUSE	P84078	ADP-ribosylation factor 1	1.09	0.14
2.05	29.85	4	CPLX2_MOUSE	P84086	Complexin-2	0.67	0.03
3.8	16.29	4	RS3A_MOUSE	P97351	40S ribosomal protein S3a	1.23	0.15
2	3.88	3	AMD_MOUSE	P97467	Peptidyl-glycine alpha-amidating monooxygenase precursor (PAM)	1.00	0.11
9.64	21.3	7	FUMH_MOUSE	P97807	Fumarate hydratase, mitochondrial precursor	1.46	0.39
2.84	60.14	17	TBB5_MOUSE	P99024	Tubulin beta-5 chain	1.57	0.43
8.05	72.17	6	RLA2_MOUSE	P99027	60S acidic ribosomal protein P2	1.22	0.15
2	49.44	2	UCRH_MOUSE	P99028	Ubiquinol-cytochrome c reductase complex 11 kDa protein, mitochondrial precursor	0.66	0.12

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6.34	24.29	5	PRDX5_MOUSE	P99029	Peroxiredoxin-5, mitochondrial precursor	0.99	0.04
19.07	44.54	15	CBPE_MOUSE	Q00493	Carboxypeptidase E precursor	0.59	0.08
16.02	70.39	9	NDKB_MOUSE	Q01768	Nucleoside diphosphate kinase B	1.33	0.38
38.97	47.52	26	TERA_MOUSE	Q01853	Transitional endoplasmic reticulum ATPase	1.50	0.17
15.94	17.96	11	UBE1X_MOUSE	Q02053	Ubiquitin-activating enzyme E1 X	0.97	0.09
6	20.48	7	NUCB1_MOUSE	Q02819	Nucleobindin-1 precursor	0.71	0.13
23.8	39.06	18	ATPA_MOUSE	Q03265	ATP synthase subunit alpha, mitochondrial precursor	1.24	0.58
27.3	54.13	25	SCG2_MOUSE	Q03517	Secretogranin-2 precursor	0.70	0.21
16.96	61.94	13	KCRB_MOUSE	Q04447	Creatine kinase B-type	0.55	0.18
8.68	10.7	8	PYC_MOUSE	Q05920	Pyruvate carboxylase, mitochondrial precursor	0.43	0.15
2	16.02	2	HAP28_MOUSE	Q3UHX2	28 kDa heat- and acid-stable phosphoprotein	1.31	0.15
10.96	27.98	10	COPD_MOUSE	Q5XJY5	Coatmer subunit delta	1.26	0.07
6.25	14.13	9	ODO1_MOUSE	Q60597	2-oxoglutarate dehydrogenase E1 component, mitochondrial precursor	0.73	0.08
3.7	17.88	2	MYL6_MOUSE	Q60605	Myosin light polypeptide 6	1.03	0.21
7.85	17.75	5	HNRPD_MOUSE	Q60668	Heterogeneous nuclear ribonucleoprotein D0	0.74	0.10
4.26	29.8	3	PRDX2_MOUSE	Q61171	Peroxiredoxin-2	0.99	0.27
4	14.41	3	PA1B2_MOUSE	Q61206	Platelet-activating factor acetylhydrolase IB subunit beta	0.98	0.08
6	7.18	3	SAP_MOUSE	Q61207	Sulfated glycoprotein 1 precursor	0.85	0.44
16.2	43.63	10	HCDH_MOUSE	Q61425	Hydroxyacyl-coenzyme A dehydrogenase, mitochondrial precursor	0.63	0.09
2.09	6.47	7	GSLG1_MOUSE	Q61543	Golgi apparatus protein 1 precursor	1.30	0.04
7.67	20.22	6	GDIB_MOUSE	Q61598	Rab GDP dissociation inhibitor beta	1.02	0.23
4.32	30.14	5	NPM_MOUSE	Q61937	Nucleophosmin	1.07	0.34
2.08	5.8	9	SPTB2_MOUSE	Q62261	Spectrin beta chain, brain 1	0.89	0.02
6.33	34.59	5	TPD52_MOUSE	Q62393	Tumor protein D52 (mD52)	1.41	0.47
4.59	14.78	4	VAT1_MOUSE	Q62465	Synaptic vesicle membrane protein VAT-1 homolog	0.72	0.03
4	8.55	2	SURF4_MOUSE	Q64310	Surfeit locus protein 4	1.00	0.11

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2	8.93	8	MYO6_MOUSE	Q64331	Myosin-6	0.52	0.05
2.91	33.33	4	CH10_MOUSE	Q64433	10 kDa heat shock protein, mitochondrial	0.79	0.25
4.51	15.61	12	AT2A3_MOUSE	Q64518	Sarcoplasmic/endoplasmic reticulum calcium ATPase 3	0.79	0.06
4	5.09	3	GPDM_MOUSE	Q64521	Glycerol-3-phosphate dehydrogenase, mitochondrial precursor	0.70	0.05
2.19	12.1	7	VINC_MOUSE	Q64727	Vinculin	1.53	0.19
4	19.01	3	IF31_MOUSE	Q66JS6	Eukaryotic translation initiation factor 3 subunit 1	2.12	0.40
22.26	17.73	20	CLH_MOUSE	Q68FD5	Clathrin heavy chain	1.48	0.71
4	7.25	2	PEPL1_MOUSE	Q6NSR8	Probable aminopeptidase NPEPL1	1.44	0.23
9.43	17.62	13	UGGG1_MOUSE	Q6P5E4	UDP-glucose:glycoprotein glucosyltransferase 1 precursor	1.39	0.22
4	5.28	4	CAND1_MOUSE	Q6ZQ38	Cullin-associated NEDD8-dissociated protein 1	0.80	0.21
5.05	8.49	4	2AAA_MOUSE	Q76MZ3	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform	0.98	0.09
6.32	66.74	19	TBB2A_MOUSE	Q7TMM9	Tubulin beta-2A chain	0.72	0.07
4.01	18.5	14	ACTN1_MOUSE	Q7TPR4	Alpha-actinin-1	0.92	0.17
2	16.24	4	OTUB1_MOUSE	Q7TQI3	Ubiquitin thioesterase protein OTUB1	0.68	0.05
11.53	10.88	17	FLNB_MOUSE	Q80X90	Filamin-B	1.18	0.21
16.3	30.08	11	ROA3_MOUSE	Q8BG05	Heterogeneous nuclear ribonucleoprotein A3	0.91	0.07
10	17.28	7	CMC1_MOUSE	Q8BH59	Calcium-binding mitochondrial carrier protein Aralar1	0.60	0.09
19.72	22.67	15	GANAB_MOUSE	Q8BHN3	Neutral alpha-glucosidase AB precursor	1.36	0.10
2	10.77	4	VATH_MOUSE	Q8BVE3	Vacuolar ATP synthase subunit H	0.48	0.06
5.28	14.81	5	AOFB_MOUSE	Q8BW75	Amine oxidase [flavin-containing] B	0.33	0.07
6.34	16.91	7	IMMT_MOUSE	Q8CAQ8	Mitochondrial inner membrane protein	0.61	0.16
7.7	37.3	5	H2B1P_MOUSE	Q8CGP2	Histone H2B type 1-P	0.80	0.17
2.89	18.28	6	GMDS_MOUSE	Q8K0C9	GDP-mannose 4,6 dehydratase	2.32	0.30
4	9.19	3	DHSA_MOUSE	Q8K2B3	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial precursor	0.96	0.36

Table S1 Summary of the proteins quantitatively identified with 95% confidence in the iTRAQ study (continued)

Unused score	%Cov	Peptide No.	Accession No	SWISS Prot ID	Protein name	Fold (MKR/WT)	S.D.
2	10.17	5	MATR3_MOUSE	Q8K310	Matrin-3	0.83	0.08
8.05	25.94	7	THIL_MOUSE	Q8QZT1	Acetyl-CoA acetyltransferase, mitochondrial precursor	0.86	0.07
2	6.15	6	IF38_MOUSE	Q8R1B4	Eukaryotic translation initiation factor 3 subunit 8	1.24	0.10
2.8	25.99	4	TMED4_MOUSE	Q8R1V4	Transmembrane emp24 domain-containing protein 4 precursor (p26)	1.86	0.62
24.39	48.18	17	ERO1B_MOUSE	Q8R2E9	ERO1-like protein beta precursor	1.52	0.28
2.03	7.64	3	NCLN_MOUSE	Q8VCM8	Nicalin precursor	0.58	0.06
10.54	14.03	18	MYH9_MOUSE	Q8VDD5	Myosin-9 (Myosin heavy chain, nonmuscle IIa)	0.85	0.03
5.3	7.49	7	VIGLN_MOUSE	Q8VDJ3	Vigilin (High density lipoprotein-binding protein)	1.39	0.29
3.52	6.44	2	MPCP_MOUSE	Q8VEM8	Phosphate carrier protein, mitochondrial precursor (PTP)	0.70	0.06
37.06	32.36	26	ACLY_MOUSE	Q91V92	ATP-citrate synthase	1.64	0.75
4	7.7	4	NDUS1_MOUSE	Q91VD9	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial precursor	0.94	0.04
2	8.8	13	GOGA4_MOUSE	Q91VW5	Golgin subfamily A member 4	1.86	0.04
2	25.9	6	TXND5_MOUSE	Q91W90	Thioredoxin domain-containing protein 5 precursor	1.53	0.35
11.17	37.32	7	SEGN_MOUSE	Q91WD9	Secretagogin	0.73	0.09
4.24	18.26	7	RIB1_MOUSE	Q91YQ5	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 67 kDa subunit precursor	1.70	1.06
14.57	21.03	9	DNJC3_MOUSE	Q91YW3	DnaJ homolog subfamily C member 3	3.04	0.82
2	9.06	2	P5CR2_MOUSE	Q922Q4	Pyrroline-5-carboxylate reductase 2	1.52	0.28
3.7	23.45	5	LRC59_MOUSE	Q922Q8	Leucine-rich repeat-containing protein 59	1.67	0.41
27.88	47.95	16	PDIA6_MOUSE	Q922R8	Protein disulfide-isomerase A6 precursor	2.25	0.38
2	23.3	4	P5CR1_MOUSE	Q922W5	Pyrroline-5-carboxylate reductase 1	2.85	0.62
1.77	17.22	5	PSMD6_MOUSE	Q99J14	26S proteasome non-ATPase regulatory subunit 6	0.88	0.14
4	30.43	4	RAP1B_MOUSE	Q99J16	Ras-related protein Rap-1b precursor	0.87	0.05
2.34	16.63	5	ECHB_MOUSE	Q99JY0	Trifunctional enzyme subunit beta, mitochondrial precursor (TP-beta)	0.62	0.04

Table S1 Summary of the proteins quantitatively identified with 95% confidence in the iTRAQ study (continued)

Unused score	%Cov	Peptide No.	Accession No	SWISS Prot ID	Protein name	Fold (MKR/WT)	S.D.
6.79	32.24	5	TMED9_MOUSE	Q99KF1	Transmembrane emp24 domain-containing protein 9 precursor	1.26	0.10
16.4	33.08	19	ACON_MOUSE	Q99KI0	Aconitate hydratase, mitochondrial precursor	0.91	0.12
8.05	23.46	6	DNJBB_MOUSE	Q99KV1	DnaJ homolog subfamily B member 11 precursor	2.47	0.79
4.49	13.75	4	F10A1_MOUSE	Q99L47	Hsc70-interacting protein	0.96	0.47
2	9.91	2	ETFA_MOUSE	Q99LC5	Electron transfer flavoprotein subunit alpha, mitochondrial precursor (Alpha-ETF)	0.57	0.06
4.92	50.79	5	PARK7_MOUSE	Q99LX0	Protein DJ-1	0.87	0.17
11.37	17.13	16	RRBP1_MOUSE	Q99PL5	Ribosome-binding protein 1	1.83	0.15
8	32.35	4	GDIR_MOUSE	Q99PT1	Rho GDP-dissociation inhibitor 1	1.18	0.23
2	18.7	4	1433B_MOUSE	Q9CQV8	14-3-3 protein beta/alpha	0.86	0.09
1.54	19.23	3	ACPM_MOUSE	Q9CR21	Acyl carrier protein, mitochondrial precursor (ACP)	0.90	0.13
2	25.76	4	TMED5_MOUSE	Q9CXE7	Transmembrane emp24 domain-containing protein 5 precursor	2.55	0.54
13.24	53.63	11	ARMET_MOUSE	Q9CXI5	ARMET protein precursor	1.81	0.54
2	9.09	3	PAIRB_MOUSE	Q9CY58	Plasminogen activator inhibitor 1 RNA-binding protein	1.05	0.41
7.74	22	6	CREL2_MOUSE	Q9CYA0	Cysteine-rich with EGF-like domain protein 2 precursor	3.54	1.32
2	17.26	3	SPCS2_MOUSE	Q9CYN2	Signal peptidase complex subunit 2	1.37	0.05
4	17.92	3	UQCR1_MOUSE	Q9CZ13	Ubiquinol-cytochrome-c reductase complex core protein 1, mitochondrial precursor	0.78	0.21
4.02	14.44	4	CISY_MOUSE	Q9CZU6	Citrate synthase, mitochondrial precursor	0.64	0.06
4.53	25.52	2	RS19_MOUSE	Q9CZX8	40S ribosomal protein S19	1.33	0.06
10.52	24.76	7	LMAN1_MOUSE	Q9D0F3	ERGIC-53 protein precursor	1.47	0.35
9.52	31.96	5	TMEDA_MOUSE	Q9D1D4	Transmembrane emp24 domain-containing protein 10 precursor	1.64	0.26
2.25	14.43	2	FKB11_MOUSE	Q9D1M7	FK506-binding protein 11 precursor	2.73	0.69
12.36	39.16	10	TXND4_MOUSE	Q9D1Q6	Thioredoxin domain-containing protein 4 precursor	1.71	0.24

Table S1 Summary of the proteins quantitatively identified with 95% confidence in the iTRAQ study (continued)

Unused score	%Cov	Peptide No.	Accession No	SWISS Prot ID	Protein name	Fold (MKR/WT)	S.D.
6	7.43	3	SC23B_MOUSE	Q9D662	Protein transport protein Sec23B	1.63	0.78
2	14.78	3	PRPS1_MOUSE	Q9D7G0	Ribose-phosphate pyrophosphokinase I	0.61	0.21
2.25	8.3	2	IPYR_MOUSE	Q9D819	Inorganic pyrophosphatase	1.73	0.23
11.79	22.2	7	RL4_MOUSE	Q9D8E6	60S ribosomal protein L4	1.74	1.09
3.81	31.35	9	EF1G_MOUSE	Q9D8N0	Elongation factor 1-gamma	1.49	0.47
2	5.26	2	PSD12_MOUSE	Q9D8W5	26S proteasome non-ATPase regulatory subunit 12	1.01	0.08
2.72	59.72	3	GBG12_MOUSE	Q9DAS9	Guanine nucleotide-binding protein G(I)/G(S)/G(O) gamma-12 subunit precursor	0.85	0.09
7.05	18.64	6	KAP0_MOUSE	Q9DBC7	cAMP-dependent protein kinase type I-alpha regulatory subunit	1.04	0.21
4	8.67	2	ALG2_MOUSE	Q9DBE8	Alpha-1,3-mannosyltransferase ALG2	0.87	0.02
4.11	14.42	5	RPN2_MOUSE	Q9DBG6	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 63 kDa subunit precursor	1.04	0.50
6.05	23.46	5	LMAN2_MOUSE	Q9DBH5	Vesicular integral-membrane protein VIP36 precursor	1.44	0.12
11.3	33.07	6	PGAM1_MOUSE	Q9DBJ1	Phosphoglycerate mutase 1	1.17	0.29
4	23.47	3	KCY_MOUSE	Q9DBP5	UMP-CMP kinase	1.17	0.25
4.01	16.21	3	ERGI1_MOUSE	Q9DC16	Endoplasmic reticulum-Golgi intermediate compartment protein 1 (ER-Golgi intermediate compartment 32 kDa protein) (ERGIC-32) - Mus musculus (Mouse)	1.70	0.72
4	14.85	4	NDUA9_MOUSE	Q9DC69	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial precursor	0.54	0.05
9.73	30.56	6	NCB5R_MOUSE	Q9DCN2	NADH-cytochrome b5 reductase	0.87	0.17
4.04	16.35	3	NDUS3_MOUSE	Q9DCT2	NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial precursor	0.91	0.05
2.46	27.06	4	ETFB_MOUSE	Q9DCW4	Electron transfer flavoprotein subunit beta	0.66	0.05
6	37.27	4	ATP5H_MOUSE	Q9DCX2	ATP synthase D chain, mitochondrial	0.76	0.19
2.06	32.65	2	PYY_MOUSE	Q9EPS2	Peptide YY precursor	0.48	0.22
6.64	18.11	7	EHD4_MOUSE	Q9EQP2	EH domain-containing protein 4	0.77	0.12

Table S1 Summary of the proteins quantitatively identified with 95% confidence in the iTRAQ study (continued)

Unused score	%Cov	Peptide No.	Accession No	SWISS Prot ID	Protein name	Fold (MKR/WT)	S.D.
4	21.05	2	IPP1_MOUSE	Q9ERT9	Protein phosphatase inhibitor 1	0.59	0.24
12.73	16.79	9	COPB_MOUSE	Q9JIF7	Coatomer subunit beta	1.25	0.13
2.04	8.93	13	IQGA1_MOUSE	Q9JKF1	Ras GTPase-activating-like protein IQGAP1	0.95	0.19
2	12.44	2	RHOA_MOUSE	Q9QUI0	Transforming protein RhoA precursor	0.83	0.10
4	41.21	5	MSAP_MOUSE	Q9QXT0	MIR-interacting saposin-like protein precursor	1.80	0.40
2.57	14.73	3	PCSK1_MOUSE	Q9QXV0	ProSAAS precursor	0.31	0.15
2.14	18.93	3	VAPB_MOUSE	Q9QY76	Vesicle-associated membrane protein-associated protein B	0.83	0.12
7.4	14.26	6	SYTL4_MOUSE	Q9R0Q1	Synaptotagmin-like protein 4	0.59	0.18
4	13.93	2	TMED2_MOUSE	Q9R0Q3	Transmembrane emp24 domain-containing protein 2 precursor	2.12	0.42
2	19.51	2	PSB3_MOUSE	Q9R1P1	Proteasome subunit beta type 3	1.65	0.09
4	19.05	2	LYPA2_MOUSE	Q9WTL7	Acyl-protein thioesterase 2	1.23	0.53
2	15.59	4	PREB_MOUSE	Q9WUQ2	Prolactin regulatory element-binding protein	1.09	0.01
2	14.35	2	MAAI_MOUSE	Q9WVL0	Maleylacetoacetate isomerase	1.49	0.17
4	4.15	2	P5CS_MOUSE	Q9Z110	Delta 1-pyrroline-5-carboxylate synthetase (P5CS)	0.87	0.13
4.05	13.32	4	UAP56_MOUSE	Q9Z1N5	Spliceosome RNA helicase Bat1	0.72	0.09
2.8	6.41	4	SYV_MOUSE	Q9Z1Q9	Valyl-tRNA synthetase	0.74	0.03
2	15.48	5	ILF3_MOUSE	Q9Z1X4	Interleukin enhancer-binding factor 3	0.86	0.07
7.22	15.86	5	DNPEP_MOUSE	Q9Z2W0	Aspartyl aminopeptidase	2.13	0.41
4.12	17.83	5	HNRPF_MOUSE	Q9Z2X1	Heterogeneous nuclear ribonucleoprotein F	0.92	0.03

“Unused score”, “%Cov”, and “Peptide No.” represent the result from one iTRAQ experiment. “Fold (MKR/WT)” and “S.D.” are the average value from 3 iTRAQ experiments.

Table S2 Summary of the quantitatively undefined proteins in the iTRAQ study

Unused score	%Cov	SWISS Prot ID	Accession No.	Protein Name	(MKR117:WT114)		E.F.
					Fold	p value	
2	14.65	O08599	STXB1_MOUSE	Syntaxin-binding protein 1	0.63		
2	3.56	O08784	TCOF_MOUSE	Treacle protein	1.82		
2	7.66	O08807	PRDX4_MOUSE	Peroxiredoxin-4	1.02		
2	17.08	O09061	PSB1_MOUSE	Proteasome subunit beta type 1 precursor	1.87		
3.52	12.74	O35166	GOSR2_MOUSE	Golgi SNAP receptor complex member 2	1.64	0.50	> 2
2	3.99	O35226	PSMD4_MOUSE	26S proteasome non-ATPase regulatory subunit 4	1.20		
2	5.04	O35658	C1QBP_MOUSE	Complement component 1 Q subcomponent-binding protein, mitochondrial precursor	0.66		
2.12	10.43	O54734	OST48_MOUSE	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit precursor	0.74	0.36	> 2
1.4	5.50	O54774	AP3D1_MOUSE	AP-3 complex subunit delta-1	1.19		
2	7.69	O55022	PGRC1_MOUSE	Membrane-associated progesterone receptor component 1	1.66		
2	7.69	O55022	PGRC1_MOUSE	Membrane-associated progesterone receptor component 1	1.56	0.26	> 2
2	15.66	O55126	NIPS2_MOUSE	Protein NipSnap2	0.96		
	4.03	O70456	1433S_MOUSE	14-3-3 protein sigma			
1.52	22.42	O70493	SNX12_MOUSE	Sorting nexin-12	0.98	0.85	> 2
2	2.31	O88342	WDR1_MOUSE	WD repeat protein 1	1.55	0.02	1.20
4	16.26	O88428	PAPS2_MOUSE	Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthetase 2	1.14	0.27	0.38
2	2.11	O89001	CBPD_MOUSE	Carboxypeptidase D precursor	0.90		
2	11.76	O89086	RBM3_MOUSE	Putative RNA-binding protein 3	1.25	0.15	2.00
2	5.05	P00493	HPRT_MOUSE	Hypoxanthine-guanine phosphoribosyltransferase	0.81		
2	17.68	P01897	HA1L_MOUSE	H-2 class I histocompatibility antigen, L-D alpha chain precursor	0.63		
9.52	39.56	P05064	ALDOA_MOUSE	Fructose-bisphosphate aldolase A	0.86	0.24	1.33
1.7	8.69	P05480	SRC_MOUSE	Neuronal proto-oncogene tyrosine-protein kinase Src	3.27		
4.37	32.86	P05784	K1C18_MOUSE	Keratin, type I cytoskeletal 18	1.01	0.95	1.52
2	4.72	P07356	ANXA2_MOUSE	Annexin A2	0.64		

Table S2 Summary of the quantitatively undefined proteins in the iTRAQ study (continued)

Unused score	%Cov	SWISS Prot ID	Accession No.	Protein Name	(MKR117:WT114)		E.F.
					Fold	p value	
	5.15	P08103	HCK_MOUSE	Tyrosine-protein kinase HCK			
2	2.13	P09055	ITB1_MOUSE	Integrin beta-1 precursor	1.33		
4	18.48	P10518	HEM2_MOUSE	Delta-aminolevulinic acid dehydratase	1.54	0.09	1.74
4	16.22	P10605	CATB_MOUSE	Cathepsin B precursor	0.92	0.68	> 2
2	5.27	P11152	LIPL_MOUSE	Lipoprotein lipase precursor	0.05	0.01	1.93
1.7	13.93	P11352	GPX1_MOUSE	Glutathione peroxidase 1	1.12	0.50	> 2
1.88	10.07	P11984	TCPA1_MOUSE	T-complex protein 1 subunit alpha A	1.00	0.99	> 2
2	6.03	P13020	GELS_MOUSE	Gelsolin precursor	1.07		
2	8.06	P13366	GRAG_MOUSE	Granzyme G precursor	1.04		
1.7	2.58	P13707	GPDA_MOUSE	Glycerol-3-phosphate dehydrogenase [NAD+], cytoplasmic	1.29		
2	14.81	P14148	RL7_MOUSE	60S ribosomal protein L7			
	1.55	P14234	FGR_MOUSE	Proto-oncogene tyrosine-protein kinase FGR	3.27		
2	6.15	P14576	SRP54_MOUSE	Signal recognition particle 54 kDa protein	1.47		
2	7.82	P14733	LMNB1_MOUSE	Lamin-B1	0.72		
2	4.56	P15105	GLNA_MOUSE	Glutamine synthetase	1.02		
	3.67	P19639	GSTM4_MOUSE	Glutathione S-transferase Mu 3	0.68		
3.53	12.23	P20152	VIME_MOUSE	Vimentin	0.40	0.00	1.24
2	5.76	P21550	ENOB_MOUSE	Beta-enolase	0.94		
	21.54	P22752	H2A1_MOUSE	Histone H2A type 1			
2	15.24	P22907	HEM3_MOUSE	Porphobilinogen deaminase	1.21	0.25	1.67
2	4.17	P23116	IF3A_MOUSE	Eukaryotic translation initiation factor 3 subunit 10	0.60		
2	7.55	P24668	MPRD_MOUSE	Cation-dependent mannose-6-phosphate receptor precursor	0.96	0.57	1.86
	6.45	P25911	LYN_MOUSE	Tyrosine-protein kinase Lyn			
5.45	8.38	P26039	TLN1_MOUSE	Talin-1	1.02	0.91	1.61
2.01	15.36	P26040	EZRI_MOUSE	Ezrin (p81)	1.33	0.18	1.81
2	13.36	P26231	CTNA1_MOUSE	Catenin alpha-1	1.23	0.10	1.54
	22.38	P27661	H2AX_MOUSE	Histone H2A.x	1.27	0.00	1.13
1.4	2.21	P28798	GRN_MOUSE	Granulins precursor	0.87	0.04	1.14
6	17.92	P29341	PABP1_MOUSE	Polyadenylate-binding protein 1	0.86	0.21	1.34

Table S2 Summary of the quantitatively undefined proteins in the iTRAQ study (continued)

Unused score	%Cov	SWISS Prot ID	Accession No.	Protein Name	(MKR117:WT114)		E.F.
					Fold	p value	
	18.24	P29387	GBB4_MOUSE	Guanine nucleotide-binding protein subunit beta 4			
2	17.28	P29595	NEDD8_MOUSE	NEDD8 precursor	0.96		
1.4	15.24	P30681	HMGB2_MOUSE	High mobility group protein B2	0.63		
2	8.41	P32020	NLTP_MOUSE	Nonspecific lipid-transfer protein	1.47	0.04	1.42
2.59	16.75	P34022	RANG_MOUSE	Ran-specific GTPase-activating protein	1.44	0.02	1.31
1.7	7.83	P34884	MIF_MOUSE	Macrophage migration inhibitory factor (MIF)	0.91	0.13	1.27
1.7	7.83	P34884	MIF_MOUSE	Macrophage migration inhibitory factor (MIF)	1.01	0.95	> 2
3.7	13.91	P34884	MIF_MOUSE	Macrophage migration inhibitory factor (MIF)	1.05	0.73	1.39
2	16.16	P36536	SAR1A_MOUSE	GTP-binding protein SAR1a	1.18		
2.04	8.85	P37040	NCPR_MOUSE	NADPH--cytochrome P450 reductase	0.59	0.09	> 2
2	4.62	P41731	CD63_MOUSE	CD63 antigen	1.17	0.19	1.41
	14.16	P43274	H14_MOUSE	Histone H1.4			
2.42	10.41	P43277	H13_MOUSE	Histone H1.3	3.78	0.00	1.42
2	6.00	P46471	PRS7_MOUSE	26S protease regulatory subunit 7	0.82	0.18	1.54
2	6.29	P47754	CAZA2_MOUSE	F-actin capping protein subunit alpha-2	0.82	0.31	> 2
2	14.40	P47791	GSHR_MOUSE	Glutathione reductase, mitochondrial precursor	0.95	0.62	1.41
2	11.85	P47963	RL13_MOUSE	60S ribosomal protein L13	1.03	0.71	> 2
2	9.39	P50580	PA2G4_MOUSE	Proliferation-associated protein 2G4	0.95		
2	6.76	P51150	RAB7_MOUSE	Ras-related protein Rab-7	1.47		
2.82	27.59	P52503	NDUS6_MOUSE	NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial precursor	2.30	0.00	1.20
2	12.16	P52825	CPT2_MOUSE	Carnitine O-palmitoyltransferase 2, mitochondrial precursor	0.45	0.10	1.25
1.4	13.07	P53657	KPYR_MOUSE	Pyruvate kinase isozymes R/L	0.52		
2	5.31	P55937	GOGA3_MOUSE	Golgin subfamily A member 3	0.95		
2	13.79	P56379	68MP_MOUSE	6.8 kDa mitochondrial proteolipid	0.69	0.00	1.08
3.57	53.49	P56391	CX6B1_MOUSE	Cytochrome c oxidase subunit VIb isoform 1	1.03	0.51	1.13
1.3	1.74	P56959	FUS_MOUSE	RNA-binding protein FUS	0.65		
2	4.83	P56959	FUS_MOUSE	RNA-binding protein FUS	0.59		
2	33.48	P58044	IDI1_MOUSE	Isopentenyl-diphosphate Delta-isomerase 1	1.05		
	24.30	P58771	TPM1_MOUSE	Tropomyosin 1 alpha chain			

Table S2 Summary of the quantitatively undefined proteins in the iTRAQ study (continued)

Unused score	%Cov	SWISS Prot ID	Accession No.	Protein Name	(MKR117:WT114)		E.F.
					Fold	p value	
3.71	22.69	P60867	RS20_MOUSE	40S ribosomal protein S20	0.83	0.15	1.41
6.14	34.21	P61089	UBE2N_MOUSE	Ubiquitin-conjugating enzyme E2 N	0.90	0.61	1.78
2	8.84	P61211	ARL1_MOUSE	ADP-ribosylation factor-like protein 1	1.15	0.28	1.50
2	8.84	P61211	ARL1_MOUSE	ADP-ribosylation factor-like protein 1	1.15		
2	13.89	P61750	ARF4_MOUSE	ADP-ribosylation factor 4	2.00		
2	11.34	P62082	RS7_MOUSE	40S ribosomal protein S7	0.96		
	9.39	P62137	PP1A_MOUSE	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit	1.07		
2	4.20	P61620	S61A1_MOUSE	Protein transport protein Sec61 subunit alpha isoform 1	1.27	0.10	1.59
2	10.73	P61924	COPZ1_MOUSE	Coatomer subunit zeta-1	1.32		
2	15.82	P61924	COPZ1_MOUSE	Coatomer subunit zeta-1	1.58		
4	18.04	P62141	PP1B_MOUSE	Serine/threonine-protein phosphatase PP1-beta catalytic subunit	1.07		
2	11.96	P62305	RUXE_MOUSE	Small nuclear ribonucleoprotein E	0.85		
2.28	27.73	P62315	SMD1_MOUSE	Small nuclear ribonucleoprotein Sm D1	0.94	0.39	1.26
2	13.37	P62334	PRS10_MOUSE	26S protease regulatory subunit S10B	0.71		
2	27.38	P62702	RS4X_MOUSE	40S ribosomal protein S4, X isoform			
	9.71	P62715	PP2AB_MOUSE	Serine/threonine-protein phosphatase 2A catalytic subunit beta isoform			
1.7	5.77	P62751	RL23A_MOUSE	60S ribosomal protein L23a	1.38	0.03	1.77
2	6.02	P62754	RS6_MOUSE	40S ribosomal protein S6	0.97	0.60	1.77
1.4	14.41	P62774	MTPN_MOUSE	Myotrophin	0.63		
2	16.20	P62827	RAN_MOUSE	GTP-binding nuclear protein Ran	1.04	0.42	1.45
2	25.00	P62830	RL23_MOUSE	60S ribosomal protein L23	0.91		
2	17.93	P62843	RS15_MOUSE	40S ribosomal protein S15	1.09	0.23	1.19
2	13.04	P62855	RS26_MOUSE	40S ribosomal protein S26	1.02	0.89	> 2
2	17.39	P62858	RS28_MOUSE	40S ribosomal protein S28	1.54		
3.52	12.94	P62880	GBB2_MOUSE	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta 2	0.71	0.17	1.83
2	11.20	P62900	RL31_MOUSE	60S ribosomal protein L31	1.22	0.19	> 2

Table S2 Summary of the quantitatively undefined proteins in the iTRAQ study (continued)

Unused score	%Cov	SWISS Prot ID	Accession No.	Protein Name	(MKR117:WT114)		E.F.
					Fold	p value	
2	14.29	P68037	UB2L3_MOUSE	Ubiquitin-conjugating enzyme E2 L3	1.01	0.89	> 2
	16.50	P63024	VAMP3_MOUSE	Vesicle-associated membrane protein 3			
	9.60	P63087	PP1G_MOUSE	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit	1.07		
4	13.92	P63330	PP2AA_MOUSE	Serine/threonine-protein phosphatase 2A catalytic subunit alpha isoform	1.05	0.33	1.20
7.4	22.99	P68368	TBA4_MOUSE	Tubulin alpha-4 chain	1.00	0.93	1.09
4	47.67	P68369	TBA1_MOUSE	Tubulin alpha-1 chain	0.96	0.56	1.15
		P68373	TBA6_MOUSE	Tubulin alpha-6 chain	1.00	0.93	1.09
2	3.79	P70333	HNRH2_MOUSE	Heterogeneous nuclear ribonucleoprotein H'	0.95		
2	13.49	P70404	IDH3G_MOUSE	Isocitrate dehydrogenase [NAD] subunit gamma, mitochondrial precursor			
5.6	13.27	P80314	TCPB_MOUSE	T-complex protein 1 subunit beta	1.08	0.46	1.35
2	8.91	P80315	TCPD_MOUSE	T-complex protein 1 subunit delta	0.72	0.01	1.09
4	17.80	P80318	TCPG_MOUSE	T-complex protein 1 subunit gamma	0.79	0.31	> 2
1.3	6.69	P97372	PSME2_MOUSE	Proteasome activator complex subunit 2	0.77		
2	6.69	P97372	PSME2_MOUSE	Proteasome activator complex subunit 2	0.84		
1.46	13.48	P97429	ANXA4_MOUSE	Annexin A4	0.62		
2	12.96	P97450	ATP5J_MOUSE	ATP synthase coupling factor 6, mitochondrial precursor	1.16		
2	6.86	P97461	RS5_MOUSE	40S ribosomal protein S5	0.97		
2	7.31	P97822	AN32E_MOUSE	Acidic leucine-rich nuclear phosphoprotein 32 family member E	0.58		
2	8.33	P99026	PSB4_MOUSE	Proteasome subunit beta type 4 precursor	1.62	0.03	1.32
1.7	3.88	Q04736	YES_MOUSE	Proto-oncogene tyrosine-protein kinase Yes	0.70		
2	11.16	Q06890	CLUS_MOUSE	Clusterin precursor	0.50		
3.4	13.82	Q07076	ANXA7_MOUSE	Annexin A7	0.80	0.25	> 2
2	7.61	Q11011	PSA_MOUSE	Puromycin-sensitive aminopeptidase	0.32		
	46.09	Q3THW5	H2AV_MOUSE	Histone H2AV			
2	8.60	Q3TXS7	PSMD1_MOUSE	26S proteasome non-ATPase regulatory subunit 1			
2	3.90	Q4PZA2	ECE1_MOUSE	Endothelin-converting enzyme 1	0.90	0.45	> 2

Table S2 Summary of the quantitatively undefined proteins in the iTRAQ study (continued)

Unused score	%Cov	SWISS Prot ID	Accession No.	Protein Name	(MKR117:WT114)		E.F.
					Fold	p value	
2	7.12	Q571E4	GALNS_MOUSE	N-acetylgalactosamine-6-sulfatase precursor	1.48	0.22	> 2
2	2.25	Q60673	PTPRN_MOUSE	Receptor-type tyrosine-protein phosphatase-like N precursor	0.56		
1.7	27.73	Q60692	PSB6_MOUSE	Proteasome subunit beta type 6 precursor	1.98		
	6.98	Q60817	NACA_MOUSE	Nascent polypeptide-associated complex subunit alpha			
5.05	11.79	Q60864	STIP1_MOUSE	Stress-induced-phosphoprotein 1	1.06	0.37	1.17
2	12.98	Q60967	PAPS1_MOUSE	Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthetase 1	1.56		
2	11.36	Q61025	IFT20_MOUSE	Intraflagellar transport 20 homolog	2.47		
2.98	10.23	Q61316	HSP74_MOUSE	Heat shock 70 kDa protein 4	1.15	0.12	1.21
2	7.69	Q61753	SERA_MOUSE	D-3-phosphoglycerate dehydrogenase	1.37	0.21	> 2
1.52	6.72	Q61941	NNTM_MOUSE	NAD(P) transhydrogenase, mitochondrial precursor	0.58		
	7.77	Q62159	RHOC_MOUSE	Rho-related GTP-binding protein RhoC precursor	0.75		
2	11.05	Q62186	SSRD_MOUSE	Translocon-associated protein subunit delta precursor	1.23	0.33	1.66
2	12.20	Q62425	NDUA4_MOUSE	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4	0.70		
2	21.43	Q62426	CYTB_MOUSE	Cystatin-B			
2	5.42	Q64471	GSTT1_MOUSE	Glutathione S-transferase theta-1	0.51		
5.7	24.62	Q64522	H2A2B_MOUSE	Histone H2A type 2-B	1.26	0.00	1.12
	37.30	Q64475	H2B1B_MOUSE	Histone H2B type 1-B			
1.7	4.37	Q6IRU5	CLCB_MOUSE	Clathrin light chain B	1.80		
2	4.37	Q6IRU5	CLCB_MOUSE	Clathrin light chain B	1.68	0.02	1.33
2	6.90	Q6NVF9	CPSF6_MOUSE	Cleavage and polyadenylation specificity factor 6	0.97	0.88	> 2
2	4.71	Q6NZC7	S23IP_MOUSE	SEC23-interacting protein	1.80		
2	8.35	Q6P5G6	UBXD7_MOUSE	UBX domain-containing protein 7	0.89	0.29	> 2
2	18.95	Q6PDM2	SFRS1_MOUSE	Splicing factor, arginine/serine-rich 1	0.96	0.27	1.25
2.29	21.96	Q6ZWV3	RL10_MOUSE	60S ribosomal protein L10	1.04	0.87	> 2
	26.98	Q6ZWY9	H2B1C_MOUSE	Histone H2B type 1-C/E/G			
2	8.60	Q78IS1	TMED3_MOUSE	Transmembrane emp24 domain-containing protein 3 precursor	1.74		

Table S2 Summary of the quantitatively undefined proteins in the iTRAQ study (continued)

Unused score	%Cov	SWISS Prot ID	Accession No.	Protein Name	(MKR117:WT114)		E.F.
					Fold	p value	
2	8.60	Q78IS1	TMED3_MOUSE	Transmembrane emp24 domain-containing protein 3 precursor	2.87	0.00	1.16
2	8.60	Q78IS1	TMED3_MOUSE	Transmembrane emp24 domain-containing protein 3 precursor	1.91		
10	18.79	Q78PY7	SND1_MOUSE	Staphylococcal nuclease domain-containing protein 1	0.88	0.11	1.18
6	15.41	Q7TMK9	HNRPQ_MOUSE	Heterogeneous nuclear ribonucleoprotein Q	1.07	0.26	1.14
1.7	3.72	Q9Z2M7	PMM2_MOUSE	Phosphomannomutase 2	0.94		
2	4.52	Q7TSV4	PGM2_MOUSE	Phosphoglucomutase-2	1.22		
1.4	4.50	Q80TJ1	CAPS1_MOUSE	Calcium-dependent secretion activator 1	0.37		
2	3.48	Q80UM7	GCS1_MOUSE	Mannosyl-oligosaccharide glucosidase	0.91	0.51	1.65
2	14.29	Q80UU9	PGRC2_MOUSE	Membrane-associated progesterone receptor component 2	1.77		
2.05	5.47	Q80W54	FACE1_MOUSE	CAAX prenyl protease 1 homolog	1.03	0.81	> 2
2	12.50	Q80WM4	HPLN4_MOUSE	Hyaluronan and proteoglycan link protein 4 precursor	0.67		
2	11.85	Q8BG32	PSD11_MOUSE	26S proteasome non-ATPase regulatory subunit 11	0.87		
2	9.82	Q8BGD9	IF4B_MOUSE	Eukaryotic translation initiation factor 4B	1.48		
2	2.58	Q8BGQ7	SYAC_MOUSE	Alanyl-tRNA synthetase, cytoplasmic	0.91		
1.52	7.84	Q8BGY2	IF5A2_MOUSE	Eukaryotic translation initiation factor 5A-2	0.97		
2	6.55	Q8BH95	ECHM_MOUSE	Enoyl-CoA hydratase, mitochondrial precursor	0.74		
2	8.58	Q8BLF1	ADCL1_MOUSE	Arylacetamide deacetylase-like 1			
4.79	36.17	Q8BMK4	CKAP4_MOUSE	Cytoskeleton-associated protein 4	1.50	0.20	1.99
2.48	13.38	Q8BP67	RL24_MOUSE	60S ribosomal protein L24	1.00	0.98	1.20
2	12.36	Q8BRF7	SCFD1_MOUSE	Sec1 family domain-containing protein 1	0.93	0.55	1.51
	12.71	Q8BSL7	ARF2_MOUSE	ADP-ribosylation factor 2	1.00	0.99	> 2
2	5.39	Q8BVI4	DHPR_MOUSE	Dihydropteridine reductase			
2	9.71	Q8CCJ3	K0776_MOUSE	Protein KIAA0776	0.87	2	> 2
1.52	12.04	Q8CGC7	SYEP_MOUSE	Bifunctional aminoacyl-tRNA synthetase	1.25	1.52	> 2
	21.88	Q8CGP6	H2A1H_MOUSE	Histone H2A type 1-H			
4	21.54	Q8CGP7	H2A1K_MOUSE	Histone H2A type 1-K	0.62	0.00	1.21
4	21.54	Q8CGP7	H2A1K_MOUSE	Histone H2A type 1-K	0.66	0.02	1.36

Table S2 Summary of the quantitatively undefined proteins in the iTRAQ study (continued)

Unused score	%Cov	SWISS Prot ID	Accession No.	Protein Name	(MKR117:WT114)		E.F.
					Fold	p value	
4	21.54	Q8CGP7	H2A1K_MOUSE	Histone H2A type 1-K	0.44	0.00	1.18
2	2.88	Q8R081	HNRPL_MOUSE	Heterogeneous nuclear ribonucleoprotein L	0.52		
2	11.60	Q8R2Y8	PTH2_MOUSE	Peptidyl-tRNA hydrolase 2, mitochondrial precursor	1.26		
4.1	11.94	Q8R311	CTGE5_MOUSE	Cutaneous T-cell lymphoma-associated antigen 5 homolog	0.84	0.61	> 2
2	10.64	Q8R5J9	PRAF3_MOUSE	PRA1 family protein 3	0.52		
2	12.38	Q8VC28	AK1CD_MOUSE	Aldo-keto reductase family 1 member C13	0.69		
2	11.08	Q8VCT3	AMPB_MOUSE	Aminopeptidase B	0.64	0.72	1.47
2	11.41	Q8VE47	UE1D1_MOUSE	Ubiquitin-activating enzyme E1 domain-containing protein 1	0.76		
2	7.45	Q8VEH8	XTP3B_MOUSE	XTP3-transactivated gene B protein homolog precursor			
2.42	19.31	Q8VHC3	SELM_MOUSE	Thioredoxin-like selenoprotein M precursor	1.40	0.48	> 2
2	12.50	Q8VHE0	SEC63_MOUSE	Translocation protein SEC63 homolog	0.90		
2	2.43	Q8VIJ6	SFPQ_MOUSE	Splicing factor, proline- and glutamine-rich	0.93		
2	2.43	Q8VIJ6	SFPQ_MOUSE	Splicing factor, proline- and glutamine-rich	1.03	0.62	1.25
2	5.29	Q8VIJ6	SFPQ_MOUSE	Splicing factor, proline- and glutamine-rich	1.07		
2.05	15.35	Q91VI7	RINI_MOUSE	Ribonuclease inhibitor	0.98		
2.22	9.59	Q91VR5	DDX1_MOUSE	ATP-dependent RNA helicase DDX1	1.05	0.73	> 2
2	10.14	Q91WJ8	FUBP1_MOUSE	Far upstream element-binding protein 1	1.02		
2	12.04	Q91WS0	ZCD1_MOUSE	Zinc finger CDGSH domain-containing protein 1	0.77		
2	5.75	Q91XF0	PNPO_MOUSE	Pyridoxine-5'-phosphate oxidase	2.23		
2.02	9.15	Q91Z53	GRHPR_MOUSE	Glyoxylate reductase/hydroxypyruvate reductase	1.30	0.70	> 2
2	13.15	Q91YT0	NDUV1_MOUSE	NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial precursor			
	1.51	Q91Z31	PTBP2_MOUSE	Polypyrimidine tract-binding protein 2			
4	7.93	Q920E5	FPPS_MOUSE	Farnesyl pyrophosphate synthetase	0.76	0.09	1.49
1.4	3.97	Q921L5	COG2_MOUSE	Conserved oligomeric Golgi complex component 2	0.95		
1.74	4.81	Q922D8	C1TC_MOUSE	C-1-tetrahydrofolate synthase, cytoplasmic	0.64	0.11	> 2
1.4	18.99	Q99JT9	MTND_MOUSE	1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase	0.88		

Table S2 Summary of the quantitatively undefined proteins in the iTRAQ study (continued)

Unused score	%Cov	SWISS Prot ID	Accession No.	Protein Name	(MKR117:WT114)		E.F.
					Fold	p value	
4.35	11.57	Q93092	TALDO_MOUSE	Transaldolase	0.95	0.75	1.78
2.08	11.09	Q99JX3	GORS2_MOUSE	Golgi reassembly-stacking protein 2	1.36		
8.92	22.49	Q99JY9	ARP3_MOUSE	Actin-like protein 3	0.84	0.09	1.24
2	3.47	Q99KK2	NEUA_MOUSE	N-acylneuraminate cytidyltransferase	3.95		
2	2.78	Q99KP6	PRP19_MOUSE	Pre-mRNA-processing factor 19	0.87		
2	7.04	Q99LC3	NDUAA_MOUSE	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 10, mitochondrial precursor	0.62		
2.54	17.23	Q99LF4	CV028_MOUSE	UPF0027 protein C22orf28 homolog	0.98	0.58	1.18
2	30.30	Q99LT0	DPY30_MOUSE	Dpy-30-like protein	1.03	0.37	1.12
2	17.24	Q9CPP6	NDUA5_MOUSE	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5	0.89	0.07	1.03
5.7	34.24	Q9CPU0	LGUL_MOUSE	Lactoylglutathione lyase	0.88	0.10	1.19
2	11.63	Q9CQ19	MLRN_MOUSE	Myosin regulatory light chain 2, smooth muscle isoform	1.52	0.37	> 2
4	14.79	Q9CQ60	6PGL_MOUSE	6-phosphogluconolactonase	0.88		
2	4.36	Q9CQF9	PCYOX_MOUSE	Preylcysteine oxidase precursor			
	1.98	Q9CQN1	TRAP1_MOUSE	Heat shock protein 75 kDa, mitochondrial precursor			
2	5.86	Q9CQQ7	AT5F1_MOUSE	ATP synthase B chain, mitochondrial precursor	0.59		
1.89	33.73	Q9CQR2	RS21_MOUSE	40S ribosomal protein S21	1.18	0.46	> 2
2	7.78	Q9CR09	UFC1_MOUSE	Ufm1-conjugating enzyme 1	1.63	0.03	1.28
1.52	12.97	Q9CR16	PPID_MOUSE	40 kDa peptidyl-prolyl cis-trans isomerase	0.83	0.57	> 2
2	9.49	Q9CR68	UCRI_MOUSE	Ubiquinol-cytochrome c reductase iron-sulfur subunit, mitochondrial precursor			
2	10.87	Q9CR60	GOT1B_MOUSE	Vesicle transport protein GOT1B	1.00	0.99	> 2
2	16.26	Q9CSU0	CT077_MOUSE	Uncharacterized protein C20orf77 homolog	0.56		
2	4.60	Q9CSU0	CT077_MOUSE	Uncharacterized protein C20orf77 homolog	0.63		
	24.94	Q9CWF2	TBB2B_MOUSE	Tubulin beta-2B chain	0.95		
1.3	1.52	Q9CWJ9	PUR9_MOUSE	Bifunctional purine biosynthesis protein PURH	1.00		
2	4.05	Q9CWJ9	PUR9_MOUSE	Bifunctional purine biosynthesis protein PURH	0.50		
2	8.88	Q9CXR1	DHR57_MOUSE	Dehydrogenase/reductase SDR family member 7 precursor	2.16		

Table S2 Summary of the quantitatively undefined proteins in the iTRAQ study (continued)

Unused score	%Cov	SWISS Prot ID	Accession No.	Protein Name	(MKR117:WT114)		E.F.
					Fold	p value	
2	13.27	Q9CXU9	EIF1B_MOUSE	Eukaryotic translation initiation factor 1b	1.82		
1.52	7.87	Q9CXW4	RL11_MOUSE	60S ribosomal protein L11	1.01	0.86	1.65
2	8.57	Q9CXZ1	NDUS4_MOUSE	NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial precursor	0.69		
2	37.73	Q9CYZ2	TPD54_MOUSE	Tumor protein D54	0.90	0.82	> 2
2	5.30	Q9CZ30	GTPB9_MOUSE	Putative GTP-binding protein 9	1.12		
2	8.92	Q9CZ44	NSF1C_MOUSE	NSFL1 cofactor p47	1.65		
2	3.14	Q9CZC8	SCRN1_MOUSE	Secernin-1	1.26	0.02	1.14
4	7.68	Q9CZD3	SYG_MOUSE	Glycyl-tRNA synthetase	1.09	0.22	1.24
2	7.31	Q9CZT8	RAB3B_MOUSE	Ras-related protein Rab-3B	0.30	0.01	1.51
3.4	6.95	Q9D020	5NT3_MOUSE	Cytosolic 5'-nucleotidase III	0.77	0.14	1.61
2	4.46	Q9D051	ODPB_MOUSE	Pyruvate dehydrogenase E1 component subunit beta, mitochondrial precursor	0.76		
2	6.58	Q9D0F9	PGM1_MOUSE	Phosphoglucomutase-1	1.03		
2	9.20	Q9D0S9	HINT2_MOUSE	Histidine triad nucleotide-binding protein 2	0.83	0.00	1.04
2	20.25	Q9D0S9	HINT2_MOUSE	Histidine triad nucleotide-binding protein 2	0.92	0.50	> 2
4	19.17	Q9D172	ES1_MOUSE	ES1 protein homolog, mitochondrial precursor	1.03	0.71	1.20
2	8.46	Q9D1G1	RAB1B_MOUSE	Ras-related protein Rab-1B	1.00		
2	28.86	Q9D1G1	RAB1B_MOUSE	Ras-related protein Rab-1B	0.85		
2	3.73	Q9D1M0	SEC13_MOUSE	SEC13-related protein	1.84	0.03	1.50
2	3.73	Q9D1M0	SEC13_MOUSE	SEC13-related protein	1.96	0.08	> 2
2.77	19.05	Q9D2U9	H2B3A_MOUSE	Histone H2B type 3-A	0.41	0.00	1.31
3.3	19.05	Q9D2U9	H2B3A_MOUSE	Histone H2B type 3-A	0.52	0.02	1.58
3.7	19.05	Q9D2U9	H2B3A_MOUSE	Histone H2B type 3-A	0.67	0.02	1.32
2	26.19	Q9D3D9	ATPD_MOUSE	ATP synthase delta chain, mitochondrial precursor	0.94	0.40	1.21
6.16	16.89	Q9D6F9	TBB4_MOUSE	Tubulin beta-4 chain	1.19	0.30	1.46
2	8.60	Q9D6J5	NDUB8_MOUSE	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8, mitochondrial precursor	0.92		
4	16.39	Q9D6R2	IDH3A_MOUSE	Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial precursor	0.90	0.53	> 2
3.4	25.69	Q9D7A6	SRP19_MOUSE	Signal recognition particle 19 kDa protein	1.79		

Table S2 Summary of the quantitatively undefined proteins in the iTRAQ study (continued)

Unused score	%Cov	SWISS Prot ID	Accession No.	Protein Name	(MKR117:WT114)		E.F.
					Fold	p value	
2	19.67	Q9D7S7	RL22L_MOUSE	Ribosomal protein L22-like 1	1.11	0.08	1.17
2	22.22	Q9D892	ITPA_MOUSE	Inosine triphosphate pyrophosphatase	1.02		
2	5.33	Q9D8S3	ARFG3_MOUSE	ADP-ribosylation factor GTPase-activating protein 3	1.38		
2	7.53	Q9D883	U2AF1_MOUSE	Splicing factor U2AF 35 kDa subunit	0.75		
2	3.47	Q9D8U8	SNX5_MOUSE	Sorting nexin-5	1.25	0.24	> 2
2	6.78	Q9DB05	SNAA_MOUSE	Alpha-soluble NSF attachment protein	1.11	0.34	> 2
4.89	22.07	Q9DB20	ATPO_MOUSE	ATP synthase O subunit, mitochondrial precursor	1.11	0.32	1.28
2	12.36	Q9DB77	UQCR2_MOUSE	Ubiquinol-cytochrome-c reductase complex core protein 2, mitochondrial precursor	0.84	0.45	> 2
2	6.42	Q9DBZ5	IF3C_MOUSE	Eukaryotic translation initiation factor 3 subunit 12	1.15		
2.06	11.93	Q9DCS9	NDUBA_MOUSE	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 10	1.02	0.84	1.58
2	4.95	Q9EPK6	SIL1_MOUSE	Nucleotide exchange factor SIL1 precursor	1.56		
2	12.20	Q9EQK5	MVP_MOUSE	Major vault protein	0.47		
2	11.07	Q9EQU5	SET_MOUSE	Protein SET	1.76	0.11	> 2
	14.67	Q9ERD7	TBB3_MOUSE	Tubulin beta-3 chain			
2	9.88	Q9ERR7	SEP15_MOUSE	15 kDa selenoprotein precursor	2.02		
2	9.88	Q9ERR7	SEP15_MOUSE	15 kDa selenoprotein precursor	1.38		
2	6.52	Q9ET22	DPP2_MOUSE	Dipeptidyl-peptidase 2 precursor	0.29		
2	5.73	Q9JHU4	DYHC_MOUSE	Dynein heavy chain, cytosolic	0.52		
1.52	8.78	Q9JJH1	RNAS4_MOUSE	Ribonuclease 4 precursor	0.63		
2	8.78	Q9JJH1	RNAS4_MOUSE	Ribonuclease 4 precursor	0.40		
2	18.57	Q9JJI8	RL38_MOUSE	60S ribosomal protein L38	1.39	0.20	1.55
	27.62	Q9JJZ2	TBA8_MOUSE	Tubulin alpha-8 chain			
2	3.24	Q9JLJ2	AL9A1_MOUSE	4-trimethylaminobutyraldehyde dehydrogenase	1.15	0.34	> 2
2	6.18	Q9JM76	ARPC3_MOUSE	Actin-related protein 2/3 complex subunit 3	0.74		
2	7.32	Q9QUM9	PSA6_MOUSE	Proteasome subunit alpha type 6	1.18		
2	4.58	Q9QWR8	NAGAB_MOUSE	Alpha-N-acetylgalactosaminidase precursor			
2	18.02	Q9QYI6	DNJB9_MOUSE	DnaJ homolog subfamily B member 9	0.75		
2	11.21	Q9QUH0	GLRX1_MOUSE	Glutaredoxin-1	1.64	0.01	1.20
2	25.36	Q9QZ08	NAGK_MOUSE	N-acetylglucosamine kinase	0.68	0.08	1.80

Table S2 Summary of the quantitatively undefined proteins in the iTRAQ study (continued)

Unused score	%Cov	SWISS Prot ID	Accession No.	Protein Name	(MKR117:WT114)		E.F.
					Fold	p value	
2.02	15.76	Q9R0P5	DEST_MOUSE	Dextrin	1.01	0.84	1.60
2.01	6.70	Q9R0P6	SPC18_MOUSE	Microsomal signal peptidase 18 kDa subunit	1.31	0.08	1.53
4	18.75	Q9R0Q7	TEBP_MOUSE	Prostaglandin E synthase 3	1.00	0.92	1.20
2	8.46	Q9R1P3	PSB2_MOUSE	Proteasome subunit beta type 2	1.54	0.30	> 2
2	12.94	Q9R1P3	PSB2_MOUSE	Proteasome subunit beta type 2	0.70		
2	5.47	Q9R1P3	PSB2_MOUSE	Proteasome subunit beta type 2	1.47		
2	11.69	Q9WU28	PFD5_MOUSE	Prefoldin subunit 5	1.41	0.27	> 2
2	5.41	Q9WUM5	SUCA_MOUSE	Succinyl-CoA ligase [GDP-forming] subunit alpha, mitochondrial precursor	1.05		
2	4.57	Q9WV54	ASAH1_MOUSE	Acid ceramidase precursor	0.65		
2	5.62	Q9WV55	VAPA_MOUSE	Vesicle-associated membrane protein-associated protein A	1.60	0.01	1.12
4	12.26	Q9WVA4	TAGL2_MOUSE	Transgelin-2	1.25	0.24	1.58
2	6.37	Q9WVK4	EHD1_MOUSE	EH domain-containing protein 1	1.09	0.69	> 2
2	13.64	Q9Z0S1	BPNT1_MOUSE	3'(2'),5'-bisphosphate nucleotidase 1	0.82		
2	3.03	Q9Z1R2	BAT3_MOUSE	Large proline-rich protein BAT3	0.90		
7.05	7.72	Q9Z1Z0	VDP_MOUSE	General vesicular transport factor p115	1.11	0.22	1.21
2	3.83	Q9Z204	HNRPC_MOUSE	Heterogeneous nuclear ribonucleoproteins C1/C2	1.28	0.00	1.01
3.52	12.86	Q9Z2U1	PSA5_MOUSE	Proteasome subunit alpha type 5	1.28	0.10	1.45

Table S3 Primer sequences used in qPCR

NCBI accession No.	Gene symbol	Forward primer (5'-3')	Reverse primer (5'-3')
NM_007450	Sla25a4(ANT1)	TGCACATTATCGTGAGCTGGAT	CGAACAGTGTCAAACGGATAGG
NM_013494	CPE	TTCGAGTACCACCGCTATCCA	CCCCTGTGTAGATTCTGCTGATG
NM_031197	Glut2	CACATTCAAACCTGACTTTCTGTTACCT	TGTACGCAAACCCGAAGTCT
NM_022310	Grp78 (Bip)	CCTCAGAGTGGAGTTGAAAATGC	GACCCCAAGACATGTGAGCAA
NM_172778	Maob	CCCTACGACTTTGTGCTTGTCTT	AGGTACAATGGCAAATAACTTGACAT
NM_013628	PC1	AGACAGCATTACACCATCTCTATCAG	AGAACAATTCTCTGCATACCAAGGT
NM_008792	PC2	CCCAGAGACGACGACTCCAA	CCAGGTGTGGGTGGTCATG
NM_008797	Pcx	TGTGCTCAGCGCCATGAA	TTTCGGATAGTGCCCTCCAT
NM_007952	PDI	AATACTTTGATGGCAACTTGAAGAGA	GACAGGCCCTTCGTTGGA
NM_009215	Sst	AGCCCAACCAGACAGAGAATGAT	CTGCAGCTCCAGCCTCATCT
NM_013757	Syt4	GGAATTCCCCAGCCATTCTAAC	GGTCAAGTTTAGGAAACAACCAAAG
NM_011631	GRP94	TCGGTTTTTATTCTGCCTTCCTT	ATGTGCTGGGTATCATTGTTGTGT
NM_009497	Vamp2	GGTGGACATCATGAGGGTGAA	TCATCCAGCTCCGACAACCTTCT