

Supplemental Data

Table 1. A Complete List of Identified Proteins Using Gel-Based Spectrometry

Table 1-1. List of all Identified Proteins in the Nuclear Fractions of DMSO-Treated Human HCT-116 Colon Carcinoma Cells

Band No.	Accession	Description	mW	Probability (%)	Peptides
1	P78527	DNA dependent protein kinase catalytic subunit	468786	100	6
	Q00325	Phosphate carrier protein	40068	100	4
	Q15393	Splicing factor 3B subunit 3	135506	100	3
	Q9Y5B9	FACT complex subunit SPT16	119914	100	3
	P05023	Sodium/potassium-transporting ATPase alpha-1 chain	112896	100	2
	Q14690	RRP5 protein homolog	208603	100	1
	Q15269	Periodic tryptophan protein 2 homolog	102386	100	1
	P68104	Elongation factor 1-alpha 1	50077	100	1
	Q8TCT9	Minor histocompatibility antigen H13	41461	100	1
	P62988	Ubiquitin	7198	100	1
	P16615	Sarcoplasmic endoplasmic reticulum calcium ATPase 2	109582	99.99	3
	O15260	Surfeit locus protein 4	30372	99.99	1
	P11166	Solute carrier family 2, facilitated glucose transporter member 1	54082	99.98	2
	Q9NZ01	Synaptic glycoprotein SC2	36010	99.97	1
	P12235	ADP/ATP translocase 1	32968	99.96	3
2	P35579	Myosin 9	226390	100	8
	P49327	Fatty acid synthase	273224	100	6
	O75643	U5 small nuclear ribonucleoprotein 200 kDa helicase	244350	100	5
	Q6P2Q9	Pre mRNA processing splicing factor 8	273424	100	3
	P35580	Myosin 10	228853	100	3
	Q14152	Eukaryotic translation initiation factor 3 subunit 10	166467	100	2
	Q15149	Plectin-1	531411	100	1
	P21333	Filamin-A	280583	99.99	3
	P27708	CAD protein	242984	99.99	1
	Q00610	Clathrin heavy chain 1	191491	99.98	2
	Q14839	Chromodomain helicase-DNA-binding protein 4	217991	96.98	1
	Q9H583	HEAT repeat containing protein 1	108575	96.17	2
3	P42704	130 kDa leucine rich protein	145108	100	3
	Q12769	Nuclear pore complex protein Nup160	148904	100	2
	P09874	Poly ADP ribose polymerase 1	112460	100	2
	Q14978	Nucleolar phosphoprotein p130	73676	100	2
	O75533	Splicing factor 3B subunit 1	145723	100	1
	Q86VP6	Cullin-associated NEDD8-dissociated protein 1	136102	100	1
	Q7L014	Probable ATP dependent RNA helicase DDX46	115068	100	1

(Table 1-1) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
3	Q9Y4L1	150 kDa oxygen regulated protein	111266	100	1
	Q13435	Splicing factor 3B subunit 2	97595	100	1
	Q00839	Heterogenous nuclear ribonucleoprotein U	90422	100	1
	Q08211	ATP dependent RNA helicase A	140827	99.99	8
	Q9BQG0	Myb binding protein 1A	148761	99.99	2
	P78347	General transcription factor II-I	112195	99.85	1
	Q15424	Scaffold attachment factor B	102577	99.31	1
	O75694	Nuclear pore complex protein Nup155	155018	97.44	2
4	P13639	Elongation factor 2	95317	100	5
	P07900	Heat shock protein HSP 90 alpha	83509	100	4
	P23246	Splicing factor, proline- and glutamine-rich	76101	100	2
	P36776	Lon protease homolog mitochondrial precursor	106422	100	1
	P25205	DNA replication licensing factor MCM3	90923	100	1
	P08238	Heat shock protein HSP 90 beta	83212	99.99	5
	P19338	Nucleolin	76298	99.99	3
	Q13200	26S proteasome non ATPase regulatory subunit 2	100138	99.99	1
	Q14974	Importin beta 1 subunit	97062	99.99	1
	P14625	Endoplasmic	92411	99.98	5
	Q9NR30	Nucleolar RNA helicase 2	87290	99.97	3
	O43707	Alpha actinin 4	104788	99.96	2
5	P15311	Ezrin	69355	100	10
	P02545	Lamin A/C	74094	100	7
	Q12931	Heat shock protein 75 kDa	80059	100	3
	P48741	Heat shock 70 kDa protein 7	69679	100	2
	P13010	ATP-dependent DNA helicase 2 subunit 2	82652	100	1
	Q08945	FACT complex subunit SSRP1	75890	100	1
	P11021	78 kDa glucose regulated protein	72590	99.99	5
	P38646	Stress 70 protein	73634	99.99	3
	P27824	Calnexin	67212	99.99	2
	P52272	Heterogeneous nuclear ribonucleoprotein M	77464	99.95	2
6	P49368	T complex protein 1 subunit gamma	60591	100	1
	P50991	T complex protein 1 subunit delta	58029	100	1
	P26368	Splicing factor U2AF 65 kDa subunit	46625	100	1
	P10809	60 kDa heat shock protein	61016	99.99	12
	P14618	Pyruvate kinase isozymes M1 M2	57900	99.99	11
	P14866	Heterogeneous nuclear ribonucleoprotein L	60149	99.99	3

(Table 1-1) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
6	P26599	Polypyrimidine tract binding protein 1	57185	99.99	3
	P50990	T complex protein 1 subunit theta	59582	99.99	3
	P06744	Glucose 6 phosphate isomerase	63107	99.99	2
	P61978	Heterogeneous nuclear ribonucleoprotein K	50944	99.99	2
	Q92841	Probable ATP dependent RNA helicase DDX17	69276	99.99	1
	Q03252	Lamin B2	67647	99.99	1
	P17987	T complex protein 1 subunit alpha	60305	99.99	1
	O76021	Ribosomal L1 domain containing protein 1	54938	99.99	1
	P07237	Protein disulfide isomerase	56772	99.98	5
	P04843	Dolichyl diphosphooligosaccharide protein glycosyltransferase 67 kDa subunit	68526	99.98	2
	P29401	Transketolase	67834	99.98	1
7	P06733	Alpha enolase	47139	100	11
	P07437	Tubulin beta chain	49638	100	10
	Q9BQE3	Tubulin alpha 6 chain	50176	100	6
	P68363	Tubulin alpha-ubiquitous chain	50001	100	4
	P26641	Elongation factor 1 gamma	50087	100	2
	P31930	Ubiquinol cytochrome c reductase complex core protein I	52585	100	1
	P27797	Calreticulin	46779	100	1
	P18754	Regulator of chromosome condensation	44940	100	1
	P43686	26S protease regulatory subunit 6B	43525	100	1
	P25705	ATP synthase alpha chain	59716	99.99	4
	Q16576	Histone-binding protein RBBP7	47820	99.99	2
	P31943	Heterogeneous nuclear ribonucleoprotein H	49248	99.99	1
	P52597	Heterogeneous nuclear ribonucleoprotein F	45688	99.99	1
	P30101	Protein disulfide isomerase A3	56585	99.98	2
	Q15084	Protein disulfide isomerase A6	48091	99.96	1
Q8NC51	Plasminogen activator inhibitor 1 RNA-binding protein	44687	99.96	2	
P06576	ATP synthase beta chain	56248	99.94	11	
8	P68032	Actin, alpha cardiac	41775	99.99	11
	P63261	Actin, cytoplasmic 2	41608	99.99	9
	P04075	Fructose bisphosphate aldolase A	39395	99.99	4
	P07910	Heterogeneous nuclear ribonucleoproteins C1/C2	33667	99.99	2
	P49411	Elongation factor Tu	49510	99.99	1
	P00505	Aspartate aminotransferase	47445	99.99	1
	P00558	Phosphoglycerate kinase	44736	99.99	1
	P04181	Ornithine aminotransferase	48504	99.98	2

(Table 1-1) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
8	P23526	Adenosylhomocysteinase	47685	99.96	2
	Q12905	Interleukin enhancer binding factor 2	42825	99.94	1
9	P22626	Heterogeneous nuclear ribonucleoproteins A2/B1	35970	100	9
	P06748	Nucleophosmin	32539	100	5
	P09651	Heterogeneous nuclear ribonucleoprotein A1	34191	100	2
	P09972	Fructose bisphosphate aldolase C	39397	100	1
	P62136	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit	37512	100	1
	P04406	Glyceraldehyde 3 phosphate dehydrogenase	36030	99.99	8
	P07355	Annexin A2	38579	99.99	5
	P40926	Malate dehydrogenase	35508	99.99	3
	P51991	Heterogeneous nuclear ribonucleoprotein A3	39570	99.99	2
	P62995	Arginine serine rich splicing factor 10	33645	99.99	1
	P29692	Elongation factor 1-delta	31102	99.99	1
	P00338	L lactate dehydrogenase A chain	36665	99.97	2
	P04083	Annexin A1	38689	99.97	1
	P05388	60S acidic ribosomal protein P0	34251	99.97	1
	P07195	L lactate dehydrogenase B chain	36589	99.89	3
	10	P16403	Histone H1.2	10358	100
P07195		L lactate dehydrogenase B chain	36615	100	2
P12429		Annexin A3	36352	100	2
Q99623		Prohibitin-2	33275	100	2
P63244		Guanine nucleotide binding protein beta subunit 2-like 1	35054	100	1
P36542		ATP synthase gamma chain	32846	100	1
Q07021		Complement component 1 Q subcomponent-binding protein	31342	100	1
P21796		Voltage dependent anion selective channel protein 1	30707	100	1
P62753		40S ribosomal protein S6	28663	100	1
P15880		40S ribosomal protein S2	30389	99.99	1
P61247		40S ribosomal protein S3a	29567	99.99	1
P45880		Voltage dependent anion selective channel protein 2	31560	99.98	1
P12004		Proliferating cell nuclear antigen	28769	99.98	1
P62258	14-3-3 protein epsilon	29155	99.68	3	
11	P18669	Phosphoglycerate mutase 1	28785	100	2
	O60762	Dolichol-phosphate mannosyltransferase	29615	100	1
	P30040	Endoplasmic reticulum protein ERp29	28975	100	1
	Q13242	Splicing factor, arginine/serine-rich 9	25526	100	1
	P50914	60S ribosomal protein L14	23274	100	1

(Table 1-1) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
11	P07305	Histone H1.0	20850	100	1
	P18124	60S ribosomal protein L7	29150	99.99	1
	P38117	Electron transfer flavoprotein beta subunit	27798	99.99	1
	P23396	40S ribosomal protein S3	26671	99.99	1
	P84098	60S ribosomal protein L19	23451	99.99	1
	P35232	Prohibitin	29785	99.98	5
	P62241	40S ribosomal protein S8	24190	99.98	2
	P63104	14-3-3 protein zeta/delta	27727	99.96	3
	P60174	Triosephosphate isomerase	26652	99.96	3
	P27348	14-3-3 protein theta	27746	99.66	2
12	P30048	Thioredoxin dependent peroxide reductase	27675	100	3
	P61313	60S ribosomal protein L15	24131	100	2
	P24539	ATP synthase B chain	28890	100	1
	P46782	40S ribosomal protein S5	25700	100	1
	P40429	60S ribosomal protein L13a	23503	100	1
	P47914	60S ribosomal protein L29	17741	100	1
	P62826	GTP binding nuclear protein Ran	24692	99.99	3
	P49721	Proteasome subunit beta type 2	22897	99.99	1
	Q07020	60S ribosomal protein L18	21621	99.98	4
	P51149	Ras-related protein Rab-7	23504	99.98	2
	Q06830	Peroxiredoxin-1	22096	99.98	2
Q9H0U4	Ras related protein Rab 1B	22157	99.86	2	
13	P02794	Ferritin heavy chain	20905	100	2
	P00403	Cytochrome c oxidase subunit 2	25548	100	1
	P61586	Transforming protein RhoA	21768	100	1
	P60953	CDC42 homolog	21296	100	1
	Q02543	60S ribosomal protein L18a	20748	100	1
	Q15185	Prostaglandin E synthase 3	18685	100	1
	P62280	40S ribosomal protein S11	18409	100	1
	P61254	60S ribosomal protein L26	15155	99.99	3
	P62913	60S ribosomal protein L11	20239	99.99	2
	P15531	Nucleoside diphosphate kinase A	17196	99.99	2
	P23284	Peptidyl prolyl cis trans isomerase B	22728	99.99	1
	Q9UM00	Transmembrane and coiled-coil domain-containing protein 1	21175	99.99	1
	O75607	Nucleoplasmin 3	19011	99.99	1
P46783	40S ribosomal protein S10	18885	99.99	1	

(Table 1-1) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
13	P30050	60S ribosomal protein L12	17793	99.99	1
	Q9NS69	Mitochondrial import receptor subunit TOM22 homolog	15526	99.99	1
	Q03135	Caveolin-1	20458	99.98	2
	P46778	60S ribosomal protein L21	18553	99.98	1
14	P46776	60S ribosomal protein L27a	16551	100	2
	P62847	40S ribosomal protein S24	15274	100	2
	P61353	60S ribosomal protein L27	15787	100	1
	P63241	Eukaryotic translation initiation factor 5A-1	11198	100	1
	P23528	Cofilin 1	18506	99.99	3
	Q99878	Histone H2A type 1-J	13927	99.99	2
	P62277	40S ribosomal protein S13	17085	99.99	1
	P62249	40S ribosomal protein S16	16435	99.99	1
	P06454	Prothymosin alpha	11935	99.99	1
	P06899	Histone H2B type 1-J	13895	99.98	8
	P62937	Peptidyl prolyl cis trans isomerase A	17825	99.98	2
	P84243	Histone H3.3	15000	99.98	2
	P62263	40S ribosomal protein S14	16248	99.98	1
P42766	60S ribosomal protein L35	14421	99.96	1	
15	P35080	Profilin-2	11896	100	1
	P56134	ATP synthase f chain	10290	100	1
	P62805	Histone H4	11342	99.99	7
	O60814	Histone H2B type 1-K	13587	99.99	2
	P07737	Profilin 1	15044	99.99	1
	P09382	Galectin-1	14793	99.99	1
	P55769	NHP2 like protein 1	14164	99.99	1
	P62314	Small nuclear ribonucleoprotein Sm D1	13273	99.99	1
	P61513	60S ribosomal protein L37a	10275	99.99	1
	Q01469	Fatty acid-binding protein	15064	99.98	1
16	P61604	10 kDa heat shock protein	10924	100	3
	P14174	Macrophage migration inhibitory factor	12476	100	2
	O75964	ATP synthase subunit g	11391	100	2
	P62306	Small nuclear ribonucleoprotein F	9718	100	1
	P63173	Ribosomal protein L38	8196	100	1
	P56385	ATP synthase e chain	7797	100	1
	O00483	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4	9363	99.99	1
	Q96IX5	Up-regulated during skeletal muscle growth protein 5	6458	99.99	1
	O75531	Barrier-to-autointegration factor	10052	99.98	1

Table 1-2. List of All Identified Proteins in the Nuclear Fractions of TPT-Treated Human HCT-116 Colon Carcinoma Cells

Band No.	Accession	Description	mW	Probability (%)	Peptides
17	P78527	DNA dependent protein kinase catalytic subunit	468786	100	9
	Q14690	RRP5 protein homolog	208603	100	3
	O75691	Small subunit processome component 20 homolog	318426	100	2
	Q15393	Splicing factor 3B subunit 3	135506	100	2
	Q9Y5B9	FACT complex subunit SPT16	119914	100	2
	P05023	Sodium/potassium-transporting ATPase alpha-1 chain	112896	100	2
	Q15269	Periodic tryptophan protein 2 homolog	102386	100	2
	P68104	Elongation factor 1-alpha 1	45091	100	2
	P05141	ADP/ATP translocase 2	32910	100	2
	P12236	ADP/ATP translocase 3	32856	100	2
	Q8TCT9	Minor histocompatibility antigen H13	41461	100	1
	P62988	Ubiquitin	7198	100	1
	Q00325	Phosphate carrier protein	40068	99.99	6
	P16615	Sarcoplasmic endoplasmic reticulum calcium ATPase 2	108953	99.99	1
	Q8NI36	WD repeat protein 36	105322	99.99	1
	O15260	Surfeit locus protein 4	30372	99.99	1
	P11166	Solute carrier family 2, facilitated glucose transporter member 1	54082	99.98	2
Q9NZ01	Synaptic glycoprotein SC2	36010	99.97	1	
18	P49327	Fatty acid synthase	273224	100	7
	Q6P2Q9	Pre mRNA processing splicing factor 8	273424	100	3
	O75643	U5 small nuclear ribonucleoprotein 200 kDa helicase	244350	100	3
	Q15149	Plectin-1	531411	100	2
	P12270	Nucleoprotein TPR	265438	100	2
	Q9H583	HEAT repeat containing protein 1	242213	100	2
	Q9NZM1	Myoferlin	234558	100	2
	Q6PL18	ATPase family AAA domain-containing protein 2	158556	100	1
	P26358	DNA (cytosine-5)-methyltransferase 1	183048	99.99	1
	Q8IYB3	Serine/arginine repetitive matrix protein 1	102336	99.99	1
	Q14839	Chromodomain helicase-DNA-binding protein 4	217991	96.98	2
	Q00610	Clathrin heavy chain 1	191491	99.98	2
	P35579	Myosin 9	226390	99.97	5
	P21333	Filamin-A	280583	99.97	2
19	P42704	130 kDa leucine-rich protein	145108	100	8
	O75533	Splicing factor 3B subunit 1	145723	100	3
	Q86VP6	Cullin-associated NEDD8-dissociated protein 1	136102	100	3
	P49736	DNA replication licensing factor MCM2	101832	100	2

(Table 1-2) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
19	Q14978	Nucleolar phosphoprotein p130	73676	100	2
	P09874	Poly ADP ribose polymerase 1	112460	100	1
	Q9Y4L1	150 kDa oxygen regulated protein	111266	100	1
	Q8IY81	Putative rRNA methyltransferase 3	96576	100	1
	Q08211	ATP dependent RNA helicase A	140827	99.99	6
	O60264	SWI SNF related matrix associated actin dependent regulator of chromatin subfamily A member 5	121549	99.99	2
	Q00839	Heterogenous nuclear ribonucleoprotein U	90422	99.99	2
	Q12769	Nuclear pore complex protein Nup160	148904	99.99	1
	Q9BQG0	Myb binding protein 1A	148761	99.99	1
	Q14683	Structural maintenance of chromosome 1 like 1 protein	143158	99.99	1
	Q13435	Splicing factor 3B subunit 2	97595	99.99	1
	Q15424	Scaffold attachment factor B	102577	99.31	1
	O75694	Nuclear pore complex protein Nup155	155018	97.44	2
20	P07900	Heat shock protein HSP 90 alpha	83509	100	6
	P13639	Elongation factor 2	95317	100	5
	Q9NR30	Nucleolar RNA helicase 2	87290	100	4
	P23246	Splicing factor, proline- and glutamine-rich	76101	100	3
	P43243	Matrin 3	94388	100	1
	P25205	DNA replication licensing factor MCM3	90923	100	1
	P08238	Heat shock protein HSP 90 beta	83212	99.99	4
	Q14974	Importin beta 1 subunit	97062	99.99	2
	P19338	Nucleolin	76298	99.99	2
	Q13200	26S proteasome non ATPase regulatory subunit 2	100138	99.99	1
	Q12906	Interleukin enhancer binding factor 3	95279	99.99	1
	P14625	Endoplasmic	92411	99.98	2
O43707	Alpha actinin 4	104788	99.96	3	
21	P54652	Heat shock-related 70 kDa protein 2	71296	100	5
	Q12931	Heat shock protein 75 kDa	80059	100	4
	Q08945	FACT complex subunit SSRP1	75890	100	1
	Q92945	Far upstream element-binding protein 2	73147	100	1
	O60506	Heterogeneous nuclear ribonucleoprotein Q	69589	100	1
	P41250	Glycyl tRNA synthetase	81825	99.98	1
	P02545	Lamin A/C	74094	99.95	11
	P38646	Stress 70 protein	73634	99.95	8
	P15311	Ezrin	69355	99.95	7
	P48741	Heat shock 70 kDa protein 7	71391	99.95	4

(Table 1-2) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
21	P52272	Heterogeneous nuclear ribonucleoprotein M	77464	99.95	3
	P13010	ATP-dependent DNA helicase 2 subunit 2	82652	99.95	2
	P12956	ATP-dependent DNA helicase 2 subunit 1	69799	99.95	2
	P11021	78 kDa glucose regulated protein	72590	99.85	4
22	P10809	60 kDa heat shock protein	61016	100	13
	P17844	Probable ATP dependent RNA helicase DDX5	69276	100	3
	P04843	Dolichyl diphosphooligosaccharide protein glycosyltransferase 67 kDa subunit	68526	100	2
	P49748	Very-long-chain specific acyl-CoA dehydrogenase	70398	100	1
	Q9NVI7	ATPase family AAA domain-containing protein 3A	66700	100	1
	P20700	Lamin B1	66367	100	1
	P06744	Glucose 6 phosphate isomerase	63107	100	1
	P49368	T complex protein 1 subunit gamma	60591	100	1
	O76021	Ribosomal L1 domain containing protein 1	54938	100	1
	Q07666	KH domain containing, RNA binding, signal transduction associated-protein 1	48197	100	1
	P26368	Splicing factor U2AF 65 kDa subunit	46625	100	1
	P61978	Heterogeneous nuclear ribonucleoprotein K	50944	99.99	7
	P14866	Heterogeneous nuclear ribonucleoprotein L	60149	99.99	5
	P50990	T complex protein 1 subunit theta	59582	99.99	1
	P07237	Protein disulfide isomerase	56772	99.98	5
	P11142	Heat shock cognate 71 kDa protein	70854	99.98	1
	P29401	Transketolase	67834	99.98	1
	P14618	Pyruvate kinase isozymes M1/M2	57900	99.94	5
P26599	Polypyrimidine tract binding protein 1	57185	99.94	3	
23	Q9BQE3	Tubulin alpha 6 chain	50176	100	6
	P68363	Tubulin alpha-ubiquitous chain	50001	100	4
	Q9H0S4	Probable ATP dependent RNA helicase DDX47	50614	100	1
	P26641	Elongation factor 1-gamma	50087	100	1
	P05455	Lupus La protein	46837	100	1
	P43686	26S protease regulatory subunit 6B	43525	100	1
	P06733	Alpha enolase	47139	99.99	10
	P25705	ATP synthase alpha chain	59716	99.99	6
	P07437	Tubulin beta chain	49829	99.99	5
	P31943	Heterogeneous nuclear ribonucleoprotein H	49168	99.99	4
	P78371	T complex protein 1 subunit beta	57452	99.99	2
	P27797	Calreticulin	48111	99.99	2
	P52597	Heterogeneous nuclear ribonucleoprotein F	45688	99.99	2

(Table 1-2) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
23	Q12849	G rich sequence factor 1	50138	99.99	1
	P04181	Ornithine aminotransferase	48504	99.98	2
	P30101	Protein disulfide isomerase A3	56585	99.98	1
	Q05639	Elongation factor 1-alpha 2	50077	99.97	2
	P06576	ATP synthase beta chain	56248	99.94	7
24	P63261	Actin, cytoplasmic 2	41758	100	9
	P04075	Fructose biphosphate aldolase A	39327	100	8
	P68032	Actin, alpha cardiac	41562	100	6
	P07910	Heterogeneous nuclear ribonucleoproteins C1/C2	33667	100	3
	Q8TDN6	Brix domain containing protein 2	41374	100	2
	P09972	Fructose biphosphate aldolase C	39397	100	2
	P08559	Pyruvate dehydrogenase E1 component alpha subunit	43296	100	1
	Q14103	Heterogeneous nuclear ribonucleoprotein D0	38410	100	1
	P00558	Phosphoglycerate kinase 1	44736	99.99	9
	P49411	Elongation factor Tu	49510	99.99	1
	Q9UJZ1	Stomatin-like protein 2	38510	99.99	1
	Q96DT0	Galectin-12	37542	99.99	1
Q12905	Interleukin enhancer binding factor 2	42825	99.94	2	
25	P22626	Heterogeneous nuclear ribonucleoproteins A2/B1	35970	100	10
	P09651	Heterogeneous nuclear ribonucleoprotein A1	34191	100	5
	P06748	Nucleophosmin	32539	100	5
	Q3ZCQ8	Import inner membrane translocase subunit TIM50	39621	100	1
	P22087	Fibrillarin	33763	100	1
	P07355	Annexin A2	38579	99.99	6
	P40926	Malate dehydrogenase	35508	99.99	5
	P04083	Annexin A1	38689	99.99	3
	P51991	Heterogeneous nuclear ribonucleoprotein A3	39570	99.99	3
	Q15365	Poly(Rc)-binding protein 1	37473	99.99	2
	P04406	Glyceraldehyde 3 phosphate dehydrogenase	36188	99.99	2
	P62995	Arginine serine rich splicing factor 10	33645	99.99	1
	O75494	FUS-interacting serine-arginine-rich protein 1	31301	99.99	1
	P36551	Coproporphyrinogen III oxidase	49682	99.98	1
	P05388	60S acidic ribosomal protein P0	34251	99.97	1
	P00338	L lactate dehydrogenase A chain	36665	99.97	1
26	P21796	Voltage dependent anion selective channel protein 1	30707	100	4
	P16403	Histone H1.2	10358	100	4

(Table 1-2) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
26	P63244	Guanine nucleotide binding protein beta subunit-2 like 1 -	35054	100	3
	Q99623	Prohibitin-2	33275	100	3
	P12429	Annexin A3	36352	100	2
	Q9H9B4	Sideroflexin-1	35596	100	2
	P36542	ATP synthase gamma chain	32846	100	2
	Q9Y277	Voltage dependent anion selective channel protein 3	30048	100	2
	Q07955	Splicing factor, arginine/serine rich-1	26838	100	2
	Q00325	Phosphate carrier protein	40068	100	1
	Q02878	60S ribosomal protein L6	32707	100	1
	Q07021	Complement component 1 Q subcomponent binding protein	31342	100	1
	P45880	Voltage dependent anion selective channel protein 2	31560	99.98	3
	P12004	Proliferating cell nuclear antigen	28769	99.98	2
	Q16629	Splicing factor arginine serine rich 7	27350	99.98	2
	P62258	14-3-3 protein epsilon	29155	99.77	2
	P62424	60S ribosomal protein L7a	14563	99.97	2
27	P18669	Phosphoglycerate mutase 1	28785	100	3
	P12236	ADP/ATP translocase 3	32968	100	2
	Q02978	Mitochondrial 2-oxoglutarate/malate carrier protein	34222	100	1
	O14818	Proteasome subunit alpha type 7	27917	100	1
	P30041	Peroxiredoxin 6	25019	100	1
	P19388	DNA directed RNA polymerase II 23 kDa polypeptide	24595	100	1
	P26373	60S ribosomal protein L13	24246	100	1
	P62241	40S ribosomal protein S8	24190	100	1
	P50914	60S ribosomal protein L14	23274	100	1
	P62701	40S ribosomal protein S4	21922	100	1
	P18124	60S ribosomal protein L7	29150	99.99	2
	Q92979	Probable ribosome biogenesis protein NEP1	26703	99.99	1
	P08574	Cytochrome c1, heme protein	35367	99.98	2
	P35232	Prohibitin	29785	99.98	1
	P60174	Triosephosphate isomerase	26652	99.96	1
P27348	14-3-3 protein theta	27746	99.66	3	
P04792	Heat-shock protein beta-1	22768	99.96	1	
28	P40429	60S ribosomal protein L13a	23503	100	2
	P46781	40S ribosomal protein S9	15510	100	2
	P46782	40S ribosomal protein S5	25700	100	1

(Table 1-2) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
28	P61313	60S ribosomal protein L15	24131	100	1
	P04179	Superoxide dismutase [Mn]	22190	100	1
	P62081	40S ribosomal protein S7	22113	100	1
	P62826	GTP binding nuclear protein Ran	24692	99.99	4
	P24539	ATP synthase B chain	28890	99.99	2
	P48047	ATP synthase O subunit	22408	99.99	2
	Q07020	60S ribosomal protein L18	21621	99.99	2
	P30048	Thioredoxin-dependent peroxide reductase	27675	99.99	1
	O75396	Vesicle-trafficking protein SEC22b	24724	99.99	1
	P49721	Proteasome subunit beta type 2	22897	99.99	1
	P32969	60S ribosomal protein L9	21863	99.99	1
	P49720	Proteasome subunit beta type 3	21403	99.99	1
	Q06830	Peroxiredoxin 1	22096	99.98	2
	P51149	Ras related protein Rab 7	23504	99.98	1
Q9H0U4	Ras related protein Rab 1B	22157	99.86	2	
29	P00403	Cytochrome c oxidase subunit 2	25548	100	1
	P49755	Transmembrane emp24 domain-containing protein 10	24960	100	1
	P23284	Peptidyl prolyl cis trans isomerase B	22728	100	1
	Q02543	60S ribosomal protein L18a	20748	100	1
	P84077	ADP-ribosylation factor 1	20697	100	1
	Q15185	Prostaglandin E synthase 3	18685	100	1
	P62750	60S ribosomal protein L23a	17684	100	1
	O43169	Cytochrome b5 outer mitochondrial membrane isoform I	16321	99.99	3
	P62913	60S ribosomal protein L11	20239	99.99	2
	P84103	Splicing factor, arginine/serine-rich 3	19317	99.99	2
	P46783	40S ribosomal protein S10	18885	99.99	2
	P15531	Nucleoside diphosphate kinase A	17196	99.99	2
	O95169	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8	21861	99.99	1
	Q9UM00	Transmembrane and coiled-coil domain-containing protein 1	21175	99.99	1
	P51970	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8	20105	99.99	1
	P30050	60S ribosomal protein L12	17793	99.99	1
Q9NS69	Mitochondrial import receptor subunit TOM22 homolog	15526	99.99	1	
P46778	60S ribosomal protein L21	18553	99.98	1	
30	P62847	40S ribosomal protein S24	15274	100	2
	P61353	60S ribosomal protein L27	15787	100	1

(Table 1-2) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
30	P62899	60S ribosomal protein L31	14453	100	1
	Q6EEV6	Small ubiquitin related modifier 4	10678	100	1
	P23528	Cofilin 1	18506	99.99	3
	P62937	Peptidyl prolyl cis trans isomerase A	17825	99.99	2
	P84243	Histone H3.3	15000	99.99	2
	P62277	40S ribosomal protein S13	17085	99.99	1
	P62249	40S ribosomal protein S16	16435	99.99	1
	Q99878	Histone H2A type 1-J	13619	99.99	1
	P05386	60S acidic ribosomal protein P1	11506	99.99	1
	P06899	Histone H2B type 1-J	13895	99.98	9
	P62263	40S ribosomal protein S14	16248	99.98	2
31	P62805	Histone H4	11331	100	3
	P07737	Profilin 1	15044	100	2
	Q9Y3B4	Pre-mRNA branch site protein p14	14585	100	1
	P99999	Cytochrome c	11598	100	1
	P56134	ATP synthase f chain	10290	100	1
	O60814	Histone H2B type 1-K	13587	99.99	5
	P62314	Small nuclear ribonucleoprotein Sm D1	13273	99.99	1
	P60468	Protein transport protein Sec61 subunit beta	9975	99.99	1
Q01469	Fatty acid-binding protein	15064	99.98	1	
32	P84090	Enhancer of rudimentary homolog	12236	100	3
	P62306	Small nuclear ribonucleoprotein F	9718	100	3
	O75964	ATP synthase subunit g	11391	100	2
	P62304	Small nuclear ribonucleoprotein E	10796	100	2
	P56385	ATP synthase e chain	7797	100	2
	P61769	Beta-2-microglobulin	13705	100	1
	P61803	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit DAD1	12497	100	1
	P14174	Macrophage migration inhibitory factor	12476	100	1
	P61604	10 kDa heat shock protein	10924	100	1
	P63173	Ribosomal protein L38	8196	100	1
	O00483	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4	9363	99.99	1
	P09669	Cytochrome c oxidase polypeptide VIc	8781	99.99	1
	Q96IX5	Up-regulated during skeletal muscle growth protein 5	6458	99.99	1
O75531	Barrier-to-autointegration factor	10052	99.98	1	

Table 1-3. List of All Identified Proteins in Mitochondrial Fractions of DMSO-Treated Human HCT-116 Colon Carcinoma Cells

Band No.	Accession	Description	mW	Probability (%)	Peptides
65	Q09666	Neuroblast differentiation-associated protein AHNAK	179892	100	2
	P05023	Sodium/potassium-transporting ATPase alpha 1 chain	112896	100	2
	Q00325	Phosphate carrier protein	40068	100	2
	Q9NQC3	Reticulon 4	129851	100	1
	Q15758	Neutral amino acid transporter B(0)	56562	100	1
	P68104	Elongation factor 1-alpha 1	50035	100	1
	P16615	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	114682	99.99	1
	P11166	Solute carrier family 2, facilitated glucose transporter member 1	54082	99.98	2
	P12235	ADP/ATP translocase 1	32968	99.96	2
66	Q9NZM1	Myoferlin	234558	100	2
	P46940	Ras GTPase-activating-like protein IQGAP1	189132	100	2
	P35579	Myosin 9	226390	99.99	7
	P21333	Filamin A	280583	99.99	1
	Q12906	Interleukin enhancer-binding factor 3	95279	99.99	1
67	P42704	130 kDa leucine rich protein	145108	100	4
	Q92896	Golgi apparatus protein 1	129625	100	2
	Q9Y4L1	150 kDa oxygen regulated protein	111266	100	1
	P69849	Nodal modulator 3	134097	99.99	2
	Q00610	Clathrin heavy chain 1	191491	99.98	2
68	P07900	Heat shock protein HSP 90 alpha	83509	100	4
	Q14697	Neutral alpha glucosidase AB	106806	100	3
	P35609	Alpha actinin 2	103788	100	2
	P13639	Elongation factor 2	95317	100	2
	Q12931	Heat shock protein 75 kDa	80059	100	1
	P08195	4F2 cell surface antigen heavy chain	57908	100	1
	P08238	Heat shock protein HSP 90 beta	83212	99.99	5
	P19338	Nucleolin	76298	99.99	1
	P14625	Endoplasmin	92411	99.98	7
	O43707	Alpha-actinin-4	104788	99.96	3
69	Q9UHD8	Septin-9	65402	100	1
	P15311	Ezrin	69355	99.99	12
	P11021	78 kDa glucose regulated protein	72288	99.99	10
	P08107	Heat shock 70 kDa protein 1	70929	99.99	3
	P27824	Calnexin	67212	99.99	3
	P38646	Stress 70 protein	73634	99.99	3
	P13667	Protein disulfide isomerase A4	72887	99.99	1
	P11142	Heat shock cognate 71 kDa protein	70854	99.98	2

(Table 1-3) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
70	P49368	T complex protein 1 subunit gamma	60591	100	3
	P50991	T complex protein 1 subunit delta	58029	100	1
	P17987	T complex protein 1 subunit alpha	60305	99.99	1
	P61978	Heterogeneous nuclear ribonucleoprotein K	50944	99.99	1
	P07237	Protein disulfide isomerase	56772	99.98	11
	P10809	60 kDa heat shock protein	61016	99.98	9
	P04843	Dolichyl diphosphooligosaccharide protein glycosyltransferase 67 kDa subunit	68526	99.98	2
	P14618	Pyruvate kinase isozyme M1/M2	57900	99.98	2
	P78371	T complex protein 1 subunit beta	57452	99.98	1
	P30101	Protein disulfide-isomerase A3	56585	99.98	1
71	P07437	Tubulin beta-2 chain	49638	100	4
	Q8NBS9	Thioredoxin domain containing protein 5	46385	100	1
	P25705	ATP synthase subunit alpha	59716	99.99	5
	P06733	Alpha enolase	47139	99.99	5
	P68140	Elongation factor 1 alpha 1	48506	99.99	4
	Q9BQE3	Tubulin alpha-6 chain	50001	99.99	3
	P27797	Calreticulin	48111	99.99	3
	Q16658	Fascin	54496	99.99	2
	P26641	Elongation factor 1 gamma	50087	99.99	1
	P39656	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit	48779	99.99	1
	P51553	Isocitrate dehydrogenase [NAD] subunit gamma	42795	99.99	1
	Q15084	Protein disulfide isomerase A6	48091	99.96	3
P06576	ATP synthase subunit beta	56248	99.94	7	
72	P01889	HLA class I histocompatibility antigen, B-7 alpha chain	40460	100	1
	P63261	Actin, cytoplasmic 2	42235	99.99	12
	P68032	Actin, alpha cardiac	41758	99.99	11
	P49411	Elongation factor Tu	49510	99.99	2
	P00505	Aspartate aminotransferase	47445	99.99	2
	P00558	Phosphoglycerate kinase 1	44736	99.99	2
	Q9UJZ1	Stomatin-like protein 2	38510	99.99	1
73	P04075	Fructose-bisphosphate aldolase A	39327	100	3
	Q02878	60S ribosomal protein L6	32707	100	2
	P36873	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit	34535	100	2
	Q3ZCQ8	Import inner membrane translocase subunit TIM50	39621	100	1
	Q9NYK5	Mitochondrial 39S ribosomal protein L39	38584	100	1
	P07195	L lactate dehydrogenase B chain	36615	100	1

(Table 1-3) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
73	P07355	Annexin A2	38579	99.99	10
	P40926	Malate dehydrogenase	35508	99.99	4
	Q96AG4	Leucine-rich repeat-containing protein 59	34931	99.99	1
	Q9HAV0	Guanine nucleotide-binding protein subunit beta 4	35622	99.98	2
	P36551	Coproporphyrinogen III oxidase	49682	99.98	1
	P46777	60S ribosomal protein L5	14660	99.98	1
	P00338	L-lactate dehydrogenase A chain	36665	99.97	2
	P04406	Glyceraldehyde 3 phosphate dehydrogenase	36030	99.97	2
	Q05639	Elongation factor 1-alpha 2	48582	99.97	1
	P04083	Annexin A1	38689	99.97	1
	P05388	60S acidic ribosomal protein P0	34251	99.97	1
74	Q99623	Prohibitin 2	33275	100	4
	Q07021	Complement component 1 Q subcomponent binding protein	31342	100	3
	P21796	Voltage dependent anion selective channel protein 1	30707	100	3
	P07339	Cathepsin D	44523	100	1
	Q9H7Z7	Prostaglandin E synthase 2	41916	100	1
	P12429	Annexin A3	36352	100	1
	P63244	Guanine nucleotide binding protein beta subunit 2 like 1	35054	100	1
	P05141	ADP/ATP translocase 2	32910	100	1
	Q9H3N1	Thioredoxin domain containing protein 1	31770	100	1
	P62258	14-3-3 protein epsilon	29155	99.99	1
	O00299	Chloride intracellular channel protein 1	26905	99.99	1
	P45880	Voltage-dependent anion-selective channel protein 2	31560	99.98	1
	Q13765	Nascent polypeptide associated complex alpha subunit	23191	99.98	1
	P62424	60S ribosomal protein L7a	14563	99.97	3
P63104	14-3-3 protein zeta	27727	99.96	1	
75	Q13162	Peroxiredoxin 4	30520	100	2
	P30040	Endoplasmic reticulum protein ERp29	28975	100	2
	P50914	60S ribosomal protein L14	23274	100	2
	O60762	Dolichol phosphate mannosyltransferase	29615	100	1
	P26373	60S ribosomal protein L13	24246	100	1
	P62241	40S ribosomal protein S8	24190	100	1
	P15259	Phosphoglycerate mutase 2	28747	99.99	1
	P51572	B cell receptor associated protein 31	27974	99.99	1
	P84098	60S ribosomal protein L19	23451	99.99	1
	P35232	Prohibitin	29785	99.98	3

(Table 1-3) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
76	P61313	60S ribosomal protein L15	24131	100	2
	P51148	Ras-related protein Rab-5C	23467	100	2
	P62820	Ras-related protein Rab-1A	22591	100	2
	P46781	40S ribosomal protein S9	15510	100	2
	P24539	ATP synthase B chain	28890	100	1
	P30048	Thioredoxin dependent peroxide reductase	27675	100	1
	Q92520	Protein FAM3C	24664	100	1
	P40429	60S ribosomal protein L13a	23503	100	1
	P04179	Superoxide dismutase [Mn]	22190	100	1
	P62081	40S ribosomal protein S7	22113	100	1
	P61006	Ras related protein Rab 8A	23653	99.99	2
	Q9BVK6	Transmembrane emp24 domain containing protein 9	24993	99.99	1
	P62826	GTP-binding nuclear protein Ran	24692	99.99	1
	P48047	ATP synthase O subunit	22408	99.99	1
	P32969	60S ribosomal protein L9	21863	99.99	1
	Q07020	60S ribosomal protein L18	21621	99.99	1
	P62491	Ras-related protein Rab-11A	24378	99.98	2
Q06830	Peroxiredoxin 1	22096	99.98	1	
77	P23284	Peptidyl prolyl cis trans isomerase B	22728	100	2
	O43169	Cytochrome b5 outer mitochondrial membrane isoform	16321	100	2
	P00403	Cytochrome c oxidase subunit 2	25548	100	1
	P49755	Transmembrane emp24 domain containing protein 10	24960	100	1
	Q96BM9	ADP-ribosylation factor-like protein 8A	21416	100	1
	P47914	60S ribosomal protein L29	17741	100	1
	P62913	60S ribosomal protein L11	20239	99.99	2
	Q15363	Transmembrane emp24 domain trafficking protein 2	22175	99.99	1
	P18621	60S ribosomal protein L17	21409	99.99	1
	P83731	60S ribosomal protein L24	17504	99.99	1
	P61254	60S ribosomal protein L26	15155	99.99	1
	P60763	Ras related C3 botulinum toxin substrate 1	8804	99.99	1
	Q03135	Caveolin 1	20458	99.98	3
	P51149	Ras related protein Rab 7	23504	99.98	1
P46778	60S ribosomal protein L21	18553	99.98	1	
78	P51571	Translocon-associated protein subunit delta	18986	100	1
	P61088	Ubiquitin-conjugating enzyme E2 N	17138	100	1
	P13073	Cytochrome c oxidase subunit IV isoform 1	16779	100	1

(Table 1-3) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
78	P46776	60S ribosomal protein L27a	16551	100	1
	O14880	Microsomal glutathione S-transferase 3	16505	100	1
	P46779	60S ribosomal protein L28	15737	100	1
	P63241	Eukaryotic translation initiation factor 5A-1	11198	100	1
	P62988	Ubiquitin	7198	100	1
	P23528	Cofilin 1	18506	99.99	2
	P22392	Nucleoside diphosphate kinase B	17286	99.99	2
	P60660	Myosin light polypeptide 6	16930	99.99	2
	P62249	40S ribosomal protein S16	16435	99.99	2
	P62807	Histone H2B type 1-C/E/F/G/I	13687	99.89	3
79	P30049	ATP synthase delta chain	17479	100	1
	Q04837	Single stranded DNA binding protein	17249	100	1
	P18077	60S ribosomal protein L35a	12529	100	1
	P99999	Cytochrome c	11543	100	1
	P09382	Galectin 1	14793	99.99	2
	P62244	40S ribosomal protein S15a	14829	99.99	1
	P62805	Histone H4	11378	99.98	6
	Q99877	Histone H2B type 1-N	13981	99.98	3
80	O75964	ATP synthase subunit g	11391	100	2
	P61769	Beta-2-microglobulin	13705	100	1
	P56385	ATP synthase e chain	7797	100	1
	P61604	10 kDa heat shock protein	10924	99.99	1
	O00483	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 4	9363	99.99	1

Table 1-4. List of All Identified Proteins in Mitochondrial Fractions of TPT-Treated Human HCT-116 Colon Carcinoma Cells

Band No.	Accession	Description	mW	Probability (%)	Peptides
81	Q00325	Phosphate carrier protein	40068	100	4
	Q09666	Neuroblast differentiation-associated protein AHNAK	179892	100	2
	P05023	Sodium/potassium-transporting ATPase alpha 1 chain	112896	100	2
	O15427	Monocarboxylate transporter 4	49470	100	2
	Q15149	Plectin 1	531411	100	1
	P16615	Sarcoplasmic endoplasmic reticulum calcium ATPase 2	114682	99.99	1
	O15260	Surfeit locus protein 4	30372	99.99	1
	P11166	Solute carrier family 2, facilitated glucose transporter member 1	54082	99.98	2
	P46977	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3A	80544	99.98	1
	P12235	ADP/ATP translocase 1	32968	99.96	2

(Table 1-4) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
82	P49327	Fatty acid synthase	273224	100	2
	Q9NZM1	Myoferlin	234558	100	1
	P35579	Myosin 9	226390	99.99	6
	P21333	Filamin A	280583	99.99	1
	Q00610	Clathrin heavy chain 1	191491	99.98	3
83	Q9Y4L1	150 kDa oxygen-regulated protein	111266	100	4
	P29317	Ephrin type-A receptor 2	108255	100	3
	P16144	Integrin beta 4	202021	100	2
	P42704	130 kDa leucine rich protein	145108	100	2
	O43795	Myosin Ib	124871	99.99	1
84	Q14697	Neutral alpha glucosidase AB precursor	106806	100	4
	P35609	Alpha actinin 2	103788	100	2
	P13639	Elongation factor 2	95317	100	2
	P07900	Heat shock protein HSP 90 alpha	83509	100	2
	P08238	Heat shock protein HSP 90 beta	83212	99.99	9
	O00159	Myosin Ic	118081	99.99	1
	P14625	Endoplasmin	92411	99.98	7
	O43707	Alpha-actinin-4	104788	99.96	5
85	P11021	78 kDa glucose regulated protein	74539	100	9
	P51659	Peroxisomal multifunctional enzyme type 2	79687	100	2
	P48741	Heat shock 70 kDa protein 7	69679	100	1
	P15311	Ezrin	69355	99.99	14
	P13667	Protein disulfide isomerase A4	72887	99.99	4
	P38646	Stress 70 protein	73634	99.99	2
	P27824	Calnexin	67212	99.99	2
	Q15758	Neutral amino acid transporter B(0)	56562	99.99	1
	P11142	Heat shock cognate 71 kDa protein	70854	99.98	3
86	P49368	T complex protein 1 subunit gamma	60591	100	1
	P50991	T complex protein 1 subunit delta	58029	100	1
	P10809	60 kDa heat shock protein	61016	99.99	16
	P07237	Protein disulfide isomerase	57080	99.99	11
	P04843	Dolichyl diphosphooligosaccharide--protein glycosyltransferase 67 kDa subunit	68526	99.99	2
	P17987	T complex protein 1 subunit alpha	60305	99.99	1
	P30101	Protein disulfide isomerase A3	56585	99.98	3
	P14618	Pyruvate kinase isozyme M1/M2	57900	99.98	2

(Table 1-4) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
87	P07437	Tubulin beta chain	49638	100	2
	Q16181	Septin-7	50258	100	1
	Q8NBS9	Thioredoxin domain-containing protein 5	46385	100	1
	P25705	ATP synthase alpha chain	59716	99.99	2
	P39656	Dolichyl diphosphooligosaccharide protein glycosyltransferase 48 kDa subunit	48779	99.99	1
	P27797	Calreticulin	48111	99.99	1
	P68104	Elongation factor 1 alpha 1	48506	99.98	3
	P06733	Alpha enolase	47139	99.98	2
	Q9NQC3	Reticulon-4	129851	99.98	1
	Q16658	Fascin	54496	99.98	1
	P31930	Ubiquinol cytochrome c reductase complex core protein I	52585	99.98	1
	Q15084	Protein disulfide-isomerase A6	48091	99.96	2
	P06576	ATP synthase beta chain	56248	99.94	9
	88	P04075	Fructose biphosphate aldolase A	39327	100
P17693		HLA class I histocompatibility antigen alpha chain G	38199	100	1
P51553		Isocitrate dehydrogenase [NAD] subunit gamma	42795	99.99	2
Q15019		Septin 2	41499	99.99	1
P63261		Actin, cytoplasmic 2	41608	99.98	9
P68032		Actin, alpha cardiac	41888	99.98	8
P04181		Ornithine aminotransferase	48504	99.98	2
89	P04406	Glyceraldehyde 3 phosphate dehydrogenase	36030	100	6
	P40926	Malate dehydrogenase	35508	100	4
	P00345	Glyceraldehyde 3 phosphate dehydrogenase	39388	100	3
	P62873	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta 1	37377	100	3
	Q3ZCQ8	Import inner membrane translocase subunit TIM50	39621	100	1
	P07195	L lactate dehydrogenase B chain	36615	100	1
	P07910	Heterogeneous nuclear ribonucleoproteins C1/C2	33667	100	1
	P07355	Annexin A2	38579	99.99	15
	Q96AG4	Leucine-rich repeat-containing protein 59	34931	99.99	2
	P46777	60S ribosomal protein L5	14660	99.98	1
	P04083	Annexin A1	38689	99.97	2
90	Q99623	Prohibitin 2	33275	100	4
	Q9H9B4	Sideroflexin-1	35596	100	2
	P21796	Voltage dependent anion selective channel protein 1	30707	100	2
	P62917	60S ribosomal protein L8	28049	100	2
	P12429	Annexin A3	36352	100	1

(Table 1-4) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
90	P63244	Guanine nucleotide binding protein beta subunit 2 like 1	35054	100	1
	P05141	ADP/ATP translocase 2	32910	100	1
	Q07021	Complement component 1 Q subcomponent binding protein	31342	100	1
	P62258	14-3-3 protein epsilon	29155	99.99	2
	P18124	60S ribosomal protein L7	29150	99.99	1
	P23396	40S ribosomal protein S3	26671	99.99	1
	P45880	Voltage dependent anion selective channel protein 2	31560	99.98	1
	Q13765	Nascent polypeptide associated complex alpha subunit	23191	99.98	1
	P00338	L-lactate dehydrogenase A chain	36665	99.97	2
	P62424	60S ribosomal protein L7a	14563	99.97	1
91	P35232	Prohibitin	29785	100	5
	P30040	Endoplasmic reticulum protein ERp29	28975	100	3
	P26373	60S ribosomal protein L13	24246	100	2
	Q9NUJ1	CDNA FLJ11342 fis, clone PLACE1010800	33910	100	1
	O75489	NADH ubiquinone oxidoreductase 30 kDa subunit	30188	100	1
	O60762	Dolichol-phosphate mannosyltransferase	29615	100	1
	P18124	60S ribosomal protein L7	29150	99.99	1
	P38117	Electron transfer flavoprotein subunit beta	27798	99.99	1
	P31946	14-3-3 protein beta/alpha	27741	99.96	2
	P63104	14 3 3 protein zeta	27727	99.96	1
92	P62820	Ras-related protein Rab-1A	22591	100	3
	P46781	40S ribosomal protein S9	15510	100	3
	P30048	Thioredoxin dependent peroxide reductase	27675	100	2
	P24539	ATP synthase B chain	28890	100	1
	P46782	40S ribosomal protein S5	25700	100	1
	Q5RAI9	Vesicle trafficking protein SEC22b	24724	100	1
	P61313	60S ribosomal protein L15	24131	100	1
	O00217	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8	23705	100	1
	P62081	40S ribosomal protein S7	22113	100	1
	P47985	Ubiquinol cytochrome c reductase iron sulfur subunit mitochondrial precursor Rieske iron sulfur pr	29755	99.99	2
	P61006	Ras related protein Rab 8A	23653	99.99	2
	Q07020	60S ribosomal protein L18	21621	99.99	2
	P62826	GTP-binding nuclear protein Ran	24692	99.99	1
	P48047	ATP synthase O subunit	22408	99.99	1
	Q06830	Peroxiredoxin-1	22096	99.98	3
	P62491	Ras-related protein Rab-11A	24378	99.98	2
P51148	Ras related protein Rab 5C	23467	99.97	3	

(Table 1-4) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
93	P23284	Peptidyl prolyl cis trans isomerase B	22728	100	2
	P49755	Transmembrane emp24 domain containing protein 10	24960	100	1
	P28074	Proteasome subunit beta type 5	22882	100	1
	P60953	Cell division control protein 42 homolog	21296	100	1
	Q15363	Transmembrane emp24 domain trafficking protein 2	22175	99.99	2
	O43169	Cytochrome b5 outer mitochondrial membrane isoform	16321	99.99	2
	P00403	Cytochrome c oxidase subunit 2	25548	99.99	1
	P18621	60S ribosomal protein L17	21409	99.99	1
	P62913	60S ribosomal protein L11	20239	99.99	1
	P62750	60S ribosomal protein L23a	17684	99.99	1
	Q9NS69	Mitochondrial import receptor subunit TOM22	15526	99.99	1
	P60763	Ras related C3 botulinum toxin substrate 1	8804	99.99	1
	P51149	Ras related protein Rab 7	23504	99.98	1
94	P19105	Myosin regulatory light chain 2	19781	100	1
	P51571	Translocon-associated protein subunit delta	18986	100	1
	P22392	Nucleoside diphosphate kinase B	17286	100	1
	P46776	60S ribosomal protein L27a	16551	100	1
	P62266	40S ribosomal protein S23	15808	100	1
	P61353	60S ribosomal protein L27	15787	100	1
	P62899	60S ribosomal protein L31	14453	100	1
	P62851	40S ribosomal protein S25	13440	100	1
	O60814	Histone H2B type 1-K	13587	99.99	3
	P23528	Cofilin 1	18506	99.99	2
	P62937	Peptidyl prolyl cis trans isomerase A	17825	99.99	2
	P30050	60S ribosomal protein L12	17793	99.99	1
	P62277	40S ribosomal protein S13	17085	99.99	1
95	P07737	Profilin 1	15044	100	1
	O95298	NADH dehydrogenase [ubiquinone] 1 subunit C2	14188	100	1
	P99999	Cytochrome c	11543	100	1
	P56134	ATP synthase f chain	10290	100	1
	P09382	Galectin 1	14793	99.99	2
	P62244	40S ribosomal protein S15a	14829	99.99	1
	Q99878	Histone H2A type 1-J	13927	99.99	1
	P62805	Histone H4	11378	99.98	4
	P62807	Histone H2B type 1-C/E/F/G/I	13326	99.93	2

(Table 1-4) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
96	P56385	ATP synthase e chain	7797	100	3
	P61769	Beta-2-microglobulin	13705	100	1
	P14174	Macrophage migration inhibitory factor	12476	100	1
	O75964	ATP synthase subunit g	11391	100	1
	P31949	Protein S100-A11	11279	100	1
	P56134	ATP synthase f chain	10290	100	1
	P61604	10 kDa heat shock protein	10924	99.99	2
	O00483	NADH ubiquinone oxidoreductase MLRQ subunit	9363	99.99	1
	Q96IX5	Up-regulated during skeletal muscle growth protein 5	6458	99.99	1

Table 1-5. List of All Identified Proteins in Cytosolic Fractions of DMSO-Treated Human HCT-116 Colon Carcinoma Cells

Band No.	Accession	Description	mW	Probability (%)	Peptides
129	Q15149	Plectin-1	531411	100	3
	Q02952	A-kinase anchor protein 12	191323	100	3
	O75369	Filamin B	277576	100	1
	P62988	Ubiquitin	7198	100	1
	P21333	Filamin A	280583	99.99	3
	Q14204	Dynein heavy chain	532412	99.99	2
130	P35579	Myosin 9	226390	100	9
	P49327	Fatty acid synthase	273224	100	7
	Q14152	Eukaryotic translation initiation factor 3 subunit 10	166467	100	2
	P46940	Ras GTPase-activating-like protein IQGAP1	189132	100	1
	Q04637	Eukaryotic translation initiation factor 4 gamma 1	153954	100	1
	Q00610	Clathrin heavy chain 1	191491	99.98	2
131	P26640	Valyl tRNA synthetase	140387	100	2
	Q9P2J5	Leucyl tRNA synthetase	134379	100	1
	P53396	ATP-citrate synthase	120748	100	1
	P22314	Ubiquitin-activating enzyme E1	117774	100	1
	P49736	DNA replication licensing factor MCM2	101832	100	1
	Q9P0H7	Cullin-associated NEDD8-dissociated protein 1	136377	99.99	3
132	P13639	Elongation factor 2	95317	100	8
	P07900	Heat shock protein HSP 90 alpha	83509	100	8
	P34932	Heat shock 70 kDa protein 4	94240	100	2
	Q00839	Heterogenous nuclear ribonucleoprotein U	90422	100	1
	Q12931	Heat shock protein 75 kDa	80059	100	1
	P08238	Heat shock protein HSP 90 beta	83212	99.99	6

(Table 1-5) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
132	P55060	Exportin-2	110346	99.99	1
	P55786	Puromycin sensitive aminopeptidase	103210	99.99	1
	Q13200	26S proteasome non-ATPase regulatory subunit 2	100138	99.99	1
	P55884	Eukaryotic translation initiation factor 3 subunit 9	90853	99.99	1
	P55072	Transitional endoplasmic reticulum ATPase	89075	99.99	1
	P19338	Nucleolin	76298	99.99	1
	Q92598	Heat shock protein 105 kDa	96803	99.97	2
	O43707	Alpha actinin 4	104788	99.96	8
133	P48741	Heat shock 70 kDa protein 7	71391	100	4
	P13010	ATP dependent DNA helicase II 80 kDa subunit	82652	100	3
	P26639	Threonyl tRNA synthetase	80885	100	1
	P11940	Polyadenylate binding protein 1	70656	99.99	1
	P11142	Heat shock cognate 71 kDa protein	70854	99.98	9
	P15311	Ezrin	69355	99.95	6
	P11021	78 kDa glucose regulated protein	74539	99.95	2
	P12956	ATP dependent DNA helicase II 70 kDa subunit	69799	99.95	1
134	P50991	T complex protein 1 subunit delta	58029	100	3
	P49368	T complex protein 1 subunit gamma	60591	100	2
	P48643	T complex protein 1 subunit epsilon	59632	100	2
	Q99832	T complex protein 1 subunit eta	59284	100	2
	gi18204201	Insulin-like growth factor 2 mRNA binding protein 2	65991	100	1
	P17987	T complex protein 1 subunit alpha	60305	99.99	4
	P50990	T complex protein 1 subunit theta	59582	99.99	2
	P61978	Heterogeneous nuclear ribonucleoprotein K	50944	99.99	1
	P26599	Polypyrimidine tract binding protein 1	57185	99.99	1
	P14618	Pyruvate kinase isozymes M1/M2	57900	99.98	17
	P06744	Glucose 6 phosphate isomerase	63107	99.98	4
	Q02790	FK506-binding protein 4	51772	99.98	2
	P78371	T complex protein 1 subunit beta	57452	99.98	2
	P29401	Transketolase	67834	99.98	1
	P31948	Stress induced phosphoprotein 1	62599	99.98	1
	P10809	60 kDa heat shock protein	61016	99.98	1
P07237	Protein disulfide isomerase	56772	99.98	1	
135	P07437	Tubulin beta-2 chain	49638	100	13
	P68371	Tubulin beta-2C chain	49829	100	12
	P06733	Alpha enolase	47139	100	11

(Table 1-5) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
135	P68104	Elongation factor 1 alpha 1	50125	100	9
	Q9BQE3	Tubulin alpha-6 chain	50176	100	7
	P68363	Tubulin alpha-ubiquitous chain	50001	100	5
	P13929	Beta enolase	47166	100	3
	P26641	Elongation factor 1 gamma	50087	100	2
	P61158	Actin-like protein 3	47327	99.99	1
	P67809	Nuclease sensitive element-binding protein 1	35924	99.99	1
	Q8NC51	Plasminogen activator inhibitor 1 RNA-binding protein	44687	99.96	1
136	P63261	Actin, cytoplasmic 2	41682	100	14
	P68032	Actin, alpha cardiac	41924	100	12
	P04075	Fructose bisphosphate aldolase A	39327	100	4
	P12277	Creatine kinase B-type	42685	100	2
	P09972	Fructose bisphosphate aldolase C	39397	100	2
	P39023	60S ribosomal protein L3	46106	100	1
	Q9UNM6	26S proteasome non ATPase regulatory subunit 13	42724	100	1
	P00558	Phosphoglycerate kinase 1	44736	99.99	6
	P22234	Multifunctional protein ADE2	47040	99.98	1
	P08865	40S ribosomal protein SA	33000	99.97	1
	P23526	Adenosylhomocysteinase	47685	99.94	2
137	P00354	Glyceraldehyde 3 phosphate dehydrogenase	35725	100	3
	Q02878	60S ribosomal protein L6	32707	100	2
	P06748	Nucleophosmin	32539	100	1
	P07355	Annexin A2	38579	99.99	4
	P04406	Glyceraldehyde 3 phosphate dehydrogenase	36030	99.97	11
	P04083	Annexin A1	38689	99.97	4
	P00338	L lactate dehydrogenase A chain	36665	99.97	4
	P07195	L lactate dehydrogenase B chain	36615	99.97	4
	Q05639	Elongation factor 1-alpha 2	48582	99.97	2
	P05388	60S acidic ribosomal protein P0	34251	99.97	1
138	P62917	60S ribosomal protein L8	28049	100	2
	P06493	Cell division control protein 2 homolog	33904	100	1
	P62753	40S ribosomal protein S6	28663	100	1
	P63244	Guanine nucleotide binding protein beta subunit 2 like 1	35054	99.99	5
	P62258	14 3 3 protein epsilon	29155	99.99	5
	O00299	Chloride intracellular channel protein 1	26905	99.99	3
	P23396	40S ribosomal protein S3	26671	99.99	3

(Table 1-5) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
138	P15880	40S ribosomal protein S2	30389	99.99	2
	P61247	40S ribosomal protein S3a	29567	99.99	2
	P08758	Annexin A5	36175	99.99	1
	P00491	Purine nucleoside phosphorylase	32127	99.99	1
	Q13126	S-methyl-5-thioadenosine phosphorylase	31236	99.99	1
	P25786	Proteasome subunit alpha type 1	29564	99.99	1
	P31947	14 3 3 protein sigma	27756	99.99	1
	P12004	Proliferating cell nuclear antigen	28769	99.98	1
	Q13765	Nascent polypeptide associated complex alpha subunit	23191	99.98	1
	P62424	60S ribosomal protein L7a	14563	99.97	2
139	P30041	Peroxiredoxin 6	25019	100	3
	P18669	Phosphoglycerate mutase 1	28785	100	2
	P61981	14 3 3 protein gamma	28216	100	2
	P26373	60S ribosomal protein L13	24246	100	2
	P62241	40S ribosomal protein S8	24190	100	2
	P68402	Platelet-activating factor acetylhydrolase IB subunit beta	25476	100	1
	P18124	60S ribosomal protein L7	29150	99.99	2
	Q04917	14 3 3 protein eta	28194	99.99	2
	P56537	Eukaryotic translation initiation factor 6	26599	99.99	1
	P60174	Triosephosphate isomerase	26693	99.96	7
	P63104	14 3 3 protein zeta/delta	27727	99.96	4
	P50914	60S ribosomal protein L14	23274	99.96	2
	P04792	Heat shock protein beta 1	22768	99.96	2
	P27348	14 3 3 protein theta	27746	99.66	2
140	P46781	40S ribosomal protein S9	15510	100	4
	P46782	40S ribosomal protein S5	25700	100	2
	P09211	Glutathione S transferase P	23341	100	2
	Q9UBQ5	Eukaryotic translation initiation factor 3 subunit 12	25043	100	1
	P61313	60S ribosomal protein L15	24131	100	1
	P62081	40S ribosomal protein S7	22113	100	1
	P62826	GTP-binding nuclear protein Ran	24692	99.99	3
	P32969	60S ribosomal protein L9	21863	99.99	2
	P28072	Proteasome subunit beta type 6	25273	99.99	1
	Q06830	Peroxiredoxin 1	22096	99.98	3
	Q07020	60S ribosomal protein L18	21621	99.98	2

(Table 1-5) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
141	P02794	Ferritin heavy chain	20905	100	1
	Q02543	60S ribosomal protein L18a	20748	100	1
	Q15185	Prostaglandin E synthase 3	18685	100	1
	P62280	40S ribosomal protein S11	18409	100	1
	P62750	60S ribosomal protein L23a	17684	100	1
	P47914	60S ribosomal protein L29	17741	100	1
	P61254	60S ribosomal protein L26	15155	99.99	3
	P62913	60S ribosomal protein L11	20239	99.99	2
	P18621	60S ribosomal protein L17	21409	99.99	1
	P30050	60S ribosomal protein L12	17793	99.99	1
	P15531	Nucleoside diphosphate kinase A	17196	99.99	1
	P07741	Adenine phosphoribosyltransferase	19595	99.98	2
	P46778	60S ribosomal protein L21	18553	99.98	1
	142	P61353	60S ribosomal protein L27	15787	100
P62269		40S ribosomal protein S18	17729	100	1
Q9Y587		AP-4 complex subunit sigma-1	17005	100	1
P46776		60S ribosomal protein L27a	16551	100	1
P46779		60S ribosomal protein L28	15737	100	1
P63241		Eukaryotic translation initiation factor 5A-1	11198	100	1
P22392		Nucleoside diphosphate kinase B	17286	99.99	4
P23528		Cofilin 1	18506	99.99	2
P62277		40S ribosomal protein S13	17085	99.99	2
P60660		Myosin light polypeptide 6	16930	99.99	2
P62249		40S ribosomal protein S16	16435	99.99	2
P46783		40S ribosomal protein S10	18885	99.99	1
P62937		Peptidyl prolyl cis trans isomerase A	17825	99.99	1
P52434		DNA-directed RNA polymerases I, II, and III 17.1 kDa polypeptide	17132	99.99	1
P05386		60S acidic ribosomal protein P1	11506	99.99	1
P62263		40S ribosomal protein S14	16248	99.98	1
P62899		60S ribosomal protein L31	14453	99.96	2
P42766		60S ribosomal protein L35	14421	99.96	2
143	P39019	40S ribosomal protein S19	16050	100	2
	P62829	60S ribosomal protein L23	14865	100	2
	P18077	60S ribosomal protein L35a	12529	100	2
	P07737	Profilin 1	15044	100	1
	P49207	60S ribosomal protein L34	13284	100	1

(Table 1-5) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
143	P10599	Thioredoxin	11729	100	1
	P62244	40S ribosomal protein S15a	14829	99.99	1
	Q99878	Histone H2A type 1-J	13927	99.99	1
	Q01469	Fatty acid binding protein	15064	99.98	1

Table 1-6. List of All Identified Proteins in Cytosolic Fractions of TPT-Treated Human HCT-116 Colon Carcinoma Cells

Band No.	Accession	Description	mW	Probability (%)	Peptides
145	P49327	Fatty acid synthase	273224	100	5
	Q15149	Plectin 1	531411	100	2
	Q02952	A-kinase anchor protein 12	191323	100	2
	P21333	Filamin-A	280583	99.99	7
146	P35579	Myosin 9	226390	100	7
	Q9H882	Myosin-14	228004	99.99	1
	P07814	Bifunctional aminoacyl tRNA synthetase	162922	99.99	1
	Q00610	Clathrin heavy chain 1	191491	99.98	6
147	P26640	Valyl tRNA synthetase	140387	100	4
	P22314	Ubiquitin-activating enzyme E1	117774	100	2
	P41252	Isoleucyl-tRNA synthetase	144960	100	1
	Q9P2J5	Leucyl tRNA synthetase	134379	100	1
	P53396	ATP-citrate synthase	120748	100	1
	Q9P0H7	Cullin-associated NEDD8-dissociated protein 1	136377	99.99	3
148	P07900	Heat shock protein HSP 90 alpha	83509	100	7
	P13639	Elongation factor 2	95317	100	6
	P34932	Heat shock 70 kDa protein 4	94240	100	1
	Q00839	Heterogenous nuclear ribonucleoprotein U	90422	100	1
	Q12931	Heat shock protein 75 kDa	80059	100	1
	P08238	Heat shock protein HSP 90 beta	83212	99.99	5
	Q14974	Importin beta-1 subunit	97062	99.99	2
	P55072	Transitional endoplasmic reticulum ATPase	89075	99.99	2
	P55060	Exportin-2	110346	99.99	1
	Q92598	Heat-shock protein 105 kDa	96803	99.97	1
	O43707	Alpha actinin 4	104788	99.96	7
149	P15311	Ezrin	69355	100	6
	P48741	Heat shock 70 kDa protein 7	69679	100	4
	P11021	78 kDa glucose regulated protein	74539	100	2
	P13010	ATP dependent DNA helicase II 80 kDa subunit	82652	100	1

(Table 1-6) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
149	P26639	Threonyl tRNA synthetase	80885	100	1
	P19338	Nucleolin	76298	99.99	2
	P11940	Polyadenylate-binding protein 1	70656	99.99	2
	P11142	Heat shock cognate 71 kDa protein	70854	99.98	11
150	P14618	Pyruvate kinase isozymes M1/M2	57900	100	13
	O60506	Heterogeneous nuclear ribonucleoprotein Q	69589	100	2
	P49368	T complex protein 1 subunit gamma	60591	100	2
	Q99832	T complex protein 1 subunit eta	59284	100	2
	Q9Y262	Eukaryotic translation initiation factor 3 subunit 6 interacting protein	66684	100	1
	P50991	T complex protein 1 subunit delta	58029	100	1
	P17987	T complex protein 1 subunit alpha	60305	99.99	4
	P50990	T complex protein 1 subunit theta	59582	99.99	2
	P61978	Heterogeneous nuclear ribonucleoprotein K	50944	99.99	2
	P29401	Transketolase	67834	99.98	1
	P06744	Glucose 6 phosphate isomerase	63107	99.97	3
	P07237	Protein disulfide isomerase	57080	99.97	3
	P40227	T complex protein 1 subunit zeta	58040	99.97	2
	151	P07437	Tubulin beta-2 chain	49638	100
P06733		Alpha enolase	47139	100	15
P04350		Tubulin beta-4 chain	49598	100	14
Q9BQE3		Tubulin alpha-6 chain	50176	100	8
P68104		Elongation factor 1 alpha 1	50125	100	6
Q9H4B7		Tubulin beta-1 chain	50294	100	4
P13929		Beta enolase	47166	100	3
P60842		Eukaryotic initiation factor 4A-I	45262	100	2
P50995		Annexin A11	54355	100	1
Q9Y230		RuvB-like 2	51155	100	1
P26641		Elongation factor 1 gamma	50087	100	1
P36578		60S ribosomal protein L4	44906	100	1
P31153		S-adenosylmethionine synthetase isoform type-2	41792	99.99	1
P78371		T complex protein 1 subunit beta	57452	99.98	1
Q8NC51	Plasminogen activator inhibitor 1 RNA-binding protein	44687	99.96	1	
152	P04075	Fructose biphosphate aldolase A	39327	100	5
	P39023	60S ribosomal protein L3	46106	100	2
	Q9UNM6	26S proteasome non ATPase regulatory subunit 13	42724	100	1
	P09972	Fructose biphosphate aldolase C	39370	100	1

(Table 1-6) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
152	P00558	Phosphoglycerate kinase 1	44736	99.99	4
	P22234	Multifunctional protein ADE2	47040	99.98	1
	P63261	Actin, cytoplasmic 2	41682	99.96	9
	P68032	Actin, alpha cardiac	41744	99.96	7
	P23526	Adenosylhomocysteinase	47685	99.96	2
	O15372	Eukaryotic translation initiation factor 3 subunit 3	39905	99.96	1
153	Q02878	60S ribosomal protein L6	32707	100	1
	P07355	Annexin A2	38579	99.99	8
	P04406	Glyceraldehyde 3 phosphate dehydrogenase	36030	99.99	8
	P37837	Transaldolase	37452	99.99	1
	P05198	Eukaryotic translation initiation factor 2 subunit 1	36085	99.99	1
	P46777	60S ribosomal protein L5	14660	99.98	1
	P04083	Annexin A1	38689	99.97	4
	P05388	60S acidic ribosomal protein P0	34251	99.97	4
	P08865	40S ribosomal protein SA	33000	99.97	4
	P07195	L lactate dehydrogenase B chain	36615	99.97	3
	P00354	Glyceraldehyde 3 phosphate dehydrogenase	35725	99.97	3
	P00338	L lactate dehydrogenase A chain	36665	99.97	2
	P40925	Malate dehydrogenase	36403	99.97	2
P29692	Elongation factor 1 delta	31102	99.97	2	
154	P62917	60S ribosomal protein L8	28049	100	2
	P06753	Tropomyosin alpha 4 chain	28492	100	1
	P62258	14 3 3 protein epsilon	29155	99.99	5
	P31947	14 3 3 protein sigma	27756	99.99	4
	O00299	Chloride intracellular channel protein 1	26905	99.99	4
	P15880	40S ribosomal protein S2	30389	99.99	3
	P63244	Guanine nucleotide binding protein beta subunit 2 like 1	35054	99.99	3
	P61247	40S ribosomal protein S3a	29567	99.99	2
	P23396	40S ribosomal protein S3	26671	99.99	2
	P25786	Proteasome subunit alpha type 1	28906	99.99	1
	P24534	Elongation factor 1-beta	24764	99.99	1
	P62424	60S ribosomal protein L7a	14563	99.97	3
P27348	14 3 3 protein theta	27746	99.66	2	
155	P18669	Phosphoglycerate mutase 1	28785	100	7
	P61981	14-3-3 protein gamma	28216	100	1
	O14818	Proteasome subunit alpha type 7	27917	100	1

(Table 1-6) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
155	P60900	Proteasome subunit alpha type 6	27354	100	1
	P62906	60S ribosomal protein L10a	24831	100	1
	P62701	40S ribosomal protein S4	21922	100	1
	P18124	60S ribosomal protein L7	29150	99.99	4
	P43487	Ran-specific GTPase-activating protein	23310	99.99	1
	P63104	14 3 3 protein zeta/delta	27727	99.96	6
	P60174	Triosephosphate isomerase	26652	99.96	4
	P62241	40S ribosomal protein S8	24190	99.96	4
	P26373	60S ribosomal protein L13	24246	99.96	3
	P04792	Heat shock protein beta 1	22768	99.96	3
	Q92688	Acidic leucine rich nuclear phosphoprotein 32 family member B	28770	99.96	2
	P31946	14-3-3 protein beta/alpha	27741	99.96	2
	P30041	Peroxiredoxin 6	25019	99.96	2
	P50914	60S ribosomal protein L14	23274	99.96	2
	P78417	Glutathione transferase omega 1	27548	99.96	1
156	P61313	60S ribosomal protein L15	24131	100	3
	P62081	40S ribosomal protein S7	22113	100	2
	P46782	40S ribosomal protein S5	25700	100	1
	P09211	Glutathione S transferase P	23341	100	1
	P32969	60S ribosomal protein L9	21863	99.99	2
	P46781	40S ribosomal protein S9	15510	99.99	2
	P62826	GTP-binding nuclear protein Ran	24692	99.99	1
	P52565	Rho GDP dissociation inhibitor 1	23192	99.99	1
	Q07020	60S ribosomal protein L18	21621	99.99	1
	Q06830	Peroxiredoxin 1	22096	99.98	2
157	Q02543	60S ribosomal protein L18a	20748	100	3
	Q15185	Prostaglandin E synthase 3	18685	100	2
	P62280	40S ribosomal protein S11	18409	100	2
	P02794	Ferritin heavy chain	20905	100	1
	P07741	Adenine phosphoribosyltransferase	19595	100	1
	P47914	60S ribosomal protein L29	17741	100	1
	P62913	60S ribosomal protein L11	20239	99.99	2
	P15531	Nucleoside diphosphate kinase A	17196	99.99	2
	P30086	Phosphatidylethanolamine binding protein	20884	99.99	1
158	P62899	60S ribosomal protein L31	14453	100	2
	P19105	Myosin regulatory light chain 2	19781	100	1

(Table 1-6) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
158	P62269	40S ribosomal protein S18	17707	100	1
	P62266	40S ribosomal protein S23	15808	100	1
	P61353	60S ribosomal protein L27	15787	100	1
	P46779	60S ribosomal protein L28	15737	100	1
	Q969Q0	60S ribosomal protein L36a-like	12469	100	1
	P63241	Eukaryotic translation initiation factor 5A 2	11198	100	1
	P23528	Cofilin 1	18506	99.99	3
	P62277	40S ribosomal protein S13	17085	99.99	2
	P46783	40S ribosomal protein S10	18885	99.99	1
	P62937	Peptidyl prolyl cis trans isomerase A	17825	99.99	1
	P05386	60S acidic ribosomal protein P1	11506	99.99	1
	P62263	40S ribosomal protein S14	16248	99.98	2
	P42766	60S ribosomal protein L35	14421	99.96	1
	P22392	Nucleoside diphosphate kinase B	17286	99.94	4
159	P39019	40S ribosomal protein S19	16050	100	2
	P62888	60S ribosomal protein L30	12784	100	2
	Q6P5R6	Ribosomal protein L22-like 1	14607	100	1
	P25398	40S ribosomal protein S12	14516	100	1
	P18077	60S ribosomal protein L35a	12529	100	1
	P10599	Thioredoxin	11729	100	1
	P07737	Profilin 1	15044	99.99	3
	P62249	40S ribosomal protein S16	16435	99.99	2
	P60866	40S ribosomal protein S20	13364	99.99	2
	Q99878	Histone H2A type 1-J	13927	99.99	1
	Q9Y3U8	60S ribosomal protein L36	12207	99.99	1
	Q01469	Fatty acid binding protein	15064	99.98	1

Table1-7. List of All Identified Proteins in Nuclear Fractions of DMSO-Treated Isogenic p21-null (p21^{-/-}) Human HCT-116 Colon Carcinoma Cells

Band No.	Accession	Description	mW	Probability (%)	Peptides
33	P78527	DNA dependent protein kinase catalytic subunit	468786	100	2
	Q00325	Phosphate carrier protein	40068	100	2
	Q15393	Splicing factor 3B subunit 3	135506	100	1
	P62988	Ubiquitin	7198	100	1
	P11166	Solute carrier family 2, facilitated glucose transporter member 1	54082	99.98	2
	P12235	ADP/ATP translocase 1	32968	99.96	2

(Table 1-7) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
34	P35579	Myosin-9	226215	100	3
	P21333	Filamin-A	280583	100	2
	O75643	U5 small nuclear ribonucleoprotein 200 kDa helicase	244350	100	2
	Q6P2Q9	Pre mRNA processing splicing factor 8	273424	100	1
	P49327	Fatty acid synthase	273224	100	1
	Q9H583	HEAT repeat containing protein 1	242213	100	1
	Q92621	Nuclear pore complex protein Nup205	227923	100	1
	P16615	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	109641	99.99	1
35	O75533	Splicing factor 3B subunit 1	145723	100	2
	P42704	130 kDa leucine rich protein	145108	100	1
	Q9Y4L1	150 kDa oxygen regulated protein	111266	100	1
	Q13435	Splicing factor 3B subunit 2	97595	100	1
	Q08211	ATP dependent RNA helicase A	140827	99.99	7
	Q9BQG0	Myb-binding protein 1A	148761	99.99	1
	Q00610	Clathrin heavy chain 1	191491	99.98	2
36	P07900	Heat shock protein HSP 90 alpha	83509	100	5
	Q00839	Heterogenous nuclear ribonucleoprotein U	90422	100	4
	P13639	Elongation factor 2	95317	100	2
	Q13263	Transcription intermediary factor 1-beta	88790	100	1
	Q12931	Heat shock protein 75 kDa	80059	100	1
	P08238	Heat shock protein HSP 90 beta	83212	99.99	5
	P23246	Splicing factor, proline- and glutamine-rich	76101	99.99	5
	P12814	Alpha actinin 1	102895	99.99	3
	P14625	Endoplasmic	92411	99.99	2
	P19338	Nucleolin	76298	99.99	2
	Q14974	Importin beta 1 subunit	97062	99.99	1
Q12906	Interleukin enhancer-binding factor 3	95279	99.99	1	
37	P02545	Lamin A/C	74094	100	8
	P11021	78 kDa glucose regulated protein	74539	100	7
	P13010	ATP-dependent DNA helicase 2 subunit 2	82652	100	3
	P48741	Heat shock 70 kDa protein 7	71391	100	2
	P15311	Ezrin	69355	100	2
	P43304	Glycerol 3 phosphate dehydrogenase	80763	100	1
	Q9NVP1	ATP-dependent RNA helicase DDX18	75407	100	1
	Q13123	Protein Red	65631	100	1
	P38646	Stress 70 protein	73634	99.99	6

(Table 1-7) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
37	P27824	Calnexin	67212	99.99	2
	P52272	Heterogeneous nuclear ribonucleoprotein M	77464	99.95	1
38	P10809	60 kDa heat shock protein	61016	100	13
	P20700	Lamin B1	66367	100	6
	P07237	Protein disulfide isomerase	57080	100	5
	P26599	Polypyrimidine tract binding protein 1	57185	100	5
	P17844	Probable ATP dependent RNA helicase DDX5	69276	100	4
	Q03252	Lamin B2	67647	100	4
	P49748	Very-long-chain specific acyl-CoA dehydrogenase	70398	100	2
	P04843	Dolichyl diphosphooligosaccharide protein glycosyltransferase 67 kDa subunit	68526	100	2
	O60506	Heterogeneous nuclear ribonucleoprotein Q	69589	100	1
	P49368	T complex protein 1 subunit gamma	60591	100	1
	Q9Y2X3	Nucleolar protein NOP5	59540	100	1
	O76021	Ribosomal L1 domain containing protein 1	54938	100	1
	O60832	H ACA ribonucleoprotein complex subunit 4	58113	100	1
	P26368	Splicing factor U2AF 65 kDa subunit	46625	100	1
	P61978	Heterogeneous nuclear ribonucleoprotein K	50944	99.99	5
	P14866	Heterogeneous nuclear ribonucleoprotein L	60149	99.99	2
	P17987	T complex protein 1 subunit alpha	60305	99.99	1
	P50990	T complex protein 1 subunit theta	59582	99.99	1
	Q15233	Non-POU domain-containing octamer-binding protein	54197	99.99	1
	Q15428	Splicing factor 3A subunit 2	49224	99.99	1
P11142	Heat shock cognate 71 kDa protein	70854	99.98	1	
P14618	Pyruvate kinase isozyme M1	57900	99.98	1	
P12956	ATP-dependent DNA helicase 2 subunit 1	69799	99.95	1	
39	Q13838	ATP dependent RNA helicase DDX39	49078	100	3
	Q9BQE3	Tubulin alpha 6 chain	51119	100	2
	P26641	Elongation factor 1 gamma	50087	100	2
	P68104	Elongation factor 1-alpha 1	50035	100	2
	Q9UM54	Myosin-6	149692	100	1
	P34896	Serine hydroxymethyltransferase	52551	100	1
	P27797	Calreticulin	48111	100	1
	Q09028	Histone binding protein RBBP4	47600	100	1
	P49411	Elongation factor Tu	43546	100	1
	P25705	ATP synthase alpha chain	59716	99.99	6
	P31943	Heterogeneous nuclear ribonucleoprotein H	49168	99.99	3

(Table 1-7) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
39	P06733	Alpha enolase	47139	99.99	3
	P78371	T-complex protein 1 subunit beta	57452	99.98	1
	P30101	Protein disulfide isomerase A3	56585	99.98	1
	Q15084	Protein disulfide-isomerase A6	48091	99.96	1
	P06576	ATP synthase beta chain	56524	99.94	8
	P07437	Tubulin beta-2 chain	49638	99.86	7
40	P68032	Actin, alpha cardiac	41758	100	12
	P04075	Fructose biphosphate aldolase A	39327	100	2
	Q14103	Heterogeneous nuclear ribonucleoprotein D0	38410	100	2
	Q99729	Heterogeneous nuclear ribonucleoprotein A/B	38168	100	2
	P07910	Heterogeneous nuclear ribonucleoproteins C1/C2	33667	100	2
	P22695	Ubiquinol-cytochrome-c reductase complex core protein 2	48412	100	1
	P00505	Aspartate aminotransferase	47445	100	1
	P39023	60S ribosomal protein L3	46106	100	1
	P38159	Heterogeneous nuclear ribonucleoprotein G	42178	100	1
	P22626	Heterogeneous nuclear ribonucleoproteins A2/B1	35970	100	1
	P06748	Nucleophosmin	32539	100	1
	P52597	Heterogeneous nuclear ribonucleoprotein F	45688	99.99	1
	Q9UJZ1	Stomatin-like protein 2	38510	99.99	1
	O75390	Citrate synthase	47347	99.97	1
	P63261	Actin, cytoplasmic 2	42235	99.94	13
Q12905	Interleukin enhancer binding factor 2	42825	99.94	2	
41	P04406	Glyceraldehyde 3 phosphate dehydrogenase	36030	100	9
	P09651	Heterogeneous nuclear ribonucleoprotein A1	34191	100	5
	P36873	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit	35544	100	2
	Q13595	Transformer 2 protein homolog	32296	100	1
	P07355	Annexin A2	38579	99.99	3
	P51991	Heterogeneous nuclear ribonucleoprotein A3	39570	99.99	2
	P40926	Malate dehydrogenase	35508	99.99	2
	P31942	Heterogeneous nuclear ribonucleoprotein H3	36903	99.97	1
42	Q99623	Prohibitin 2	33275	100	9
	P21796	Voltage dependent anion selective channel protein 1	30707	100	2
	P62917	60S ribosomal protein L8	28049	100	2
	Q07955	Splicing factor, arginine serine rich 1	27727	100	2
	Q15717	ELAV like protein 1	36069	100	1
	P13804	Electron transfer flavoprotein subunit alpha	35080	100	1

(Table 1-7) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
42	P63244	Guanine nucleotide-binding protein subunit beta 2-like 1	35054	100	1
	P22087	Fibrillarin	33763	100	1
	P16403	Histone H1.2	10358	99.99	7
	Q07021	Complement component 1 Q subcomponent binding protein	31342	99.99	2
	Q9H9B4	Sideroflexin 1	35596	99.99	1
	P45880	Voltage dependent anion selective channel protein 2	31560	99.98	3
	P12004	Proliferating cell nuclear antigen	28769	99.98	1
	P62424	60S ribosomal protein L7a	14563	99.97	2
	P00338	L lactate dehydrogenase A chain	36665	99.97	1
43	P07305	Histone H1.0	20850	100	3
	P50914	60S ribosomal protein L14	23274	100	2
	Q9Y277	Voltage dependent anion selective channel protein 3	30048	100	1
	O60762	Dolichol-phosphate mannosyltransferase	29615	100	1
	Q13242	Splicing factor, arginine/serine rich 9	25526	100	1
	P14678	Small nuclear ribonucleoprotein associated protein B	21580	100	1
	P62241	40S ribosomal protein S8	24190	99.99	2
	P84098	60S ribosomal protein L19	23451	99.99	2
	P42126	3,2-trans-enoyl-CoA isomerase	32795	99.99	1
	P18124	60S ribosomal protein L7	29150	99.99	1
	P15259	Phosphoglycerate mutase 2	28747	99.99	1
	Q6DKI1	Ribosomal protein L7 like 1	28643	99.99	1
	P60174	Triosephosphate isomerase	27388	99.99	1
P35232	Prohibitin	29785	99.98	3	
44	P30048	Thioredoxin dependent peroxide reductase	27675	100	2
	P46782	40S ribosomal protein S5	25700	100	2
	Q9Y3D9	Mitochondrial ribosomal protein S23	21771	100	2
	P24539	ATP synthase B chain	28890	100	1
	P40429	60S ribosomal protein L13a	23503	100	1
	P62820	Ras-related protein Rab-1A	22591	100	1
	P46781	40S ribosomal protein S9	22577	100	1
	P32119	Peroxiredoxin 2	21878	100	1
	Q07020	60S ribosomal protein L18	21621	100	1
	P62826	GTP-binding nuclear protein Ran	24692	99.99	2
	P47985	Ubiquinol cytochrome c reductase iron sulfur subunit	29755	99.99	1
	P84103	Splicing factor, arginine/serine rich 3	19317	99.99	1
	Q06830	Peroxiredoxin 1	22096	99.98	5
	P51149	Ras related protein Rab 7	23504	99.98	1

(Table 1-7) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
45	P04908	Histone H2A type 1-B	14135	100	3
	P49755	Transmembrane emp24 domain-containing protein 10	24960	100	1
	P18085	ADP-ribosylation factor 4	20497	100	1
	P62280	40S ribosomal protein S11	18409	100	1
	P17317	Histone H2A.Z	13619	100	1
	P61254	60S ribosomal protein L26	15155	99.99	2
	P18621	60S ribosomal protein L17	21409	99.99	1
	Q02543	60S ribosomal protein L18a	20748	99.99	1
	P62913	60S ribosomal protein L11	20239	99.99	1
	P62750	60S ribosomal protein L23a	17684	99.99	1
	Q9NS69	Mitochondrial import receptor subunit TOM22 homolog	15526	99.99	1
	P46778	60S ribosomal protein L21	18553	99.98	1
46	P13073	Cytochrome c oxidase subunit 4 isoform 1	16779	100	2
	P30044	Peroxiredoxin-5	22027	100	1
	P62847	40S ribosomal protein S24	15274	100	1
	Q6EEV6	Small ubiquitin related modifier 4	10678	100	1
	Q93081	Histone H3.1	15392	99.99	2
	P62937	Peptidyl prolyl cis trans isomerase A	17858	99.99	2
	Q8N983	39S ribosomal protein L43	23431	99.99	1
	P51571	Translocon-associated protein subunit delta	18986	99.99	1
	P23528	Cofilin-1	18506	99.99	1
	P62277	40S ribosomal protein S13	17085	99.99	1
	P06899	Histone H2B type 1-J	13895	99.98	3
	P62263	40S ribosomal protein S14	16248	99.98	1
	Q99877	Histone H2B type 1-N	13981	99.98	1
47	P62805	Histone H4	11402	100	7
	P05387	60S acidic ribosomal protein P2	4692	100	1
	Q01469	Fatty acid-binding protein	15064	99.98	1
48	O75964	ATP synthase subunit g	11391	100	2
	P56385	ATP synthase e chain	7797	100	2
	P61604	10 kDa heat shock protein	10924	100	1
	P56134	ATP synthase f chain	10290	100	1
	O14949	Ubiquinol-cytochrome c reductase complex ubiquinone-binding protein QP-C	9900	100	1
	Q96IX5	upregulated during skeletal muscle growth 5 pseudogene 1	6458	99.99	3
	O75531	Barrier-to-autointegration factor	10052	99.98	1

Table 1-8. List of All Identified Proteins in Nuclear Fractions of TPT-Treated Isogenic p21-null (p21^{-/-}) Human HCT-116 Colon Carcinoma Cells

Band No.	Accession	Description	mW	Probability (%)	Peptides
49	P05023	Sodium/potassium-transporting ATPase alpha-1 chain	112896	100	2
	Q00325	Phosphate carrier protein	40068	99.99	6
	Q16531	DNA damage-binding protein 1	126901	99.99	1
	P16615	Sarcoplasmic endoplasmic reticulum calcium ATPase 2	109641	99.99	1
	O15260	Surfeit locus protein 4	30372	99.99	1
	P11166	Solute carrier family 2, facilitated glucose transporter member 1	54082	99.98	2
	P12235	ADP/ATP translocase 1	32968	99.96	2
50	P78527	DNA dependent protein kinase catalytic subunit	468786	100	4
	Q6P2Q9	Pre mRNA processing splicing factor 8	273424	100	3
	O75643	U5 small nuclear ribonucleoprotein 200 kDa helicase	244350	100	2
	P21333	Filamin-A	280583	100	1
	P49327	Fatty acid synthase	273224	100	1
51	P42704	130 kDa leucine rich protein	145108	100	2
	Q08211	ATP dependent RNA helicase A	140827	99.99	2
52	P13639	Elongation factor 2	95317	100	8
	P07900	Heat shock protein HSP 90 alpha	83509	100	7
	P23246	Splicing factor, proline- and glutamine-rich	76101	100	5
	Q00839	Heterogenous nuclear ribonucleoprotein U	90422	100	4
	Q9NR30	Nucleolar RNA helicase 2	87290	100	3
	P08238	Heat shock protein HSP 90 beta	83212	99.99	8
	Q12906	Interleukin enhancer binding factor 3	95279	99.99	3
	P19338	Nucleolin	76298	99.99	2
	Q14974	Importin beta 1 subunit	97062	99.99	1
	P55072	Transitional endoplasmic reticulum ATPase	89075	99.99	1
	P14625	Endoplasmin	92411	99.98	1
53	Q12931	Heat shock protein 75 kDa	80059	100	2
	Q92945	Far upstream element-binding protein 2	73147	100	2
	Q08945	FACT complex subunit SSRP1	75890	100	1
	Q9NVP1	ATP-dependent RNA helicase DDX18	75407	100	1
	P13667	Protein disulfide-isomerase A4	72887	100	1
	P48741	Heat shock 70 kDa protein 7	69679	100	1
	P15311	Ezrin	69355	100	1
	P17844	Probable ATP dependent RNA helicase DDX5	69276	100	1
	P20700	Lamin B1	66367	100	1
	P38646	Stress 70 protein	73634	99.99	4
	P40939	Trifunctional enzyme subunit alpha	83053	99.99	1

(Table 1-8) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
53	P27824	Calnexin	67212	99.99	1
	P02545	Lamin A/C	74278	99.98	6
	P12956	ATP-dependent DNA helicase 2 subunit 1	69799	99.98	3
	P13010	ATP-dependent DNA helicase 2 subunit 2	82652	99.98	2
	P52272	Heterogeneous nuclear ribonucleoprotein M	77464	99.95	2
	P11021	78 kDa glucose regulated protein	72590	99.68	4
54	P10809	60 kDa heat shock protein	61016	100	9
	P07237	Protein disulfide isomerase	57080	100	2
	P26599	Polypyrimidine tract binding protein 1	57185	100	2
	P49748	Very-long-chain specific acyl-CoA dehydrogenase	70398	100	1
	P04844	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 63 kDa subunit	69035	100	1
	Q03252	Lamin B2	67647	100	1
	Q53GS9	U4/U6.U5 tri-snRNP-associated protein 2	65105	100	1
	P49368	T complex protein 1 subunit gamma	60591	100	1
	O76021	Ribosomal L1 domain containing protein 1	54938	100	1
	Q07666	KH domain-containing, RNA-binding, signal transduction-associated protein 1	48197	100	1
	P26368	Splicing factor U2AF 65 kDa subunit	46625	100	1
	P61978	Heterogeneous nuclear ribonucleoprotein K	50944	99.99	5
	Q15233	Non-POU domain-containing octamer-binding protein	54197	99.99	1
	P14618	Pyruvate kinase isozyme M1	57900	99.98	3
	P30101	Protein disulfide-isomerase A3	56585	99.98	2
P11142	Heat shock cognate 71 kDa protein	70854	99.98	1	
P29401	Transketolase	67834	99.98	1	
55	Q969V3	Nicalin	62975	100	1
	Q13838	ATP dependent RNA helicase DDX39	48620	100	1
	P25705	ATP synthase alpha chain	59716	99.99	3
	Q9BQE3	Tubulin alpha 6 chain	49905	99.99	2
	P68104	Elongation factor 1-alpha 1	49002	99.99	2
	Q10713	Mitochondrial processing peptidase alpha subunit	58215	99.99	1
	Q16658	Fascin	54496	99.99	1
	P06733	Alpha-enolase	47139	99.99	1
	P52597	Heterogeneous nuclear ribonucleoprotein F	45688	99.99	1
	P49411	Elongation factor Tu	43546	99.99	1
	P78371	T complex protein 1 subunit beta	57452	99.98	1
	Q15084	Protein disulfide isomerase A6	48091	99.96	1
	P06576	ATP synthase beta chain	56524	99.94	10
	P07437	Tubulin beta-2 chain	49638	99.75	2

(Table 1-8) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
56	P62736	Actin, aortic smooth muscle	42039	100	6
	P00505	Aspartate aminotransferase	47445	100	2
	P04075	Fructose biphosphate aldolase A	39327	100	2
	Q14103	Heterogeneous nuclear ribonucleoprotein D0	38410	100	2
	P38159	Heterogeneous nuclear ribonucleoprotein G	42178	100	1
	Q99729	Heterogeneous nuclear ribonucleoprotein A/B	38168	100	1
	P06748	Nucleophosmin	32539	100	1
	O75390	Citrate synthase	47347	99.97	2
	Q12905	Interleukin enhancer binding factor 2	42825	99.94	1
	P63261	Actin, cytoplasmic 2	42235	99.93	8
57	P22626	Heterogeneous nuclear ribonucleoproteins A2/B1	35970	100	10
	P04406	Glyceraldehyde 3 phosphate dehydrogenase	36030	100	8
	P09651	Heterogeneous nuclear ribonucleoprotein A1	34191	100	5
	P07910	Heterogeneous nuclear ribonucleoproteins C1/C2	33667	100	5
	P22087	Fibrillarin	33763	100	2
	P31942	Heterogeneous nuclear ribonucleoprotein H3	36903	100	1
	P40926	Malate dehydrogenase	35508	99.99	5
	P50213	Isocitrate dehydrogenase [NAD] subunit alpha	37574	99.99	1
	Q96AG4	Leucine-rich repeat-containing protein 59	34931	99.99	1
	P04083	Annexin A1	38689	99.97	1
	P00338	L-lactate dehydrogenase A chain	36665	99.97	1
P07355	Annexin A2	38579	99.93	6	
58	P16403	Histone H1.2	10358	100	6
	Q99623	Prohibitin 2	33275	100	4
	P08758	Annexin A5	35914	100	3
	P21796	Voltage dependent anion selective channel protein 1	30707	100	3
	Q07021	Complement component 1 Q subcomponent binding protein	31342	100	2
	Q9H9B4	Sideroflexin 1	35596	100	1
	P36542	ATP synthase gamma chain	32846	100	1
	P45880	Voltage dependent anion selective channel protein 2	31560	99.98	4
	P35232	Prohibitin	29785	99.98	1
	P62424	60S ribosomal protein L7a	14563	99.97	1
59	P62241	40S ribosomal protein S8	24190	100	2
	Q13162	Peroxiredoxin 4	30520	100	1
	Q9Y277	Voltage dependent anion selective channel protein 3	30048	100	1
	Q6DKI1	Ribosomal protein L7 like 1	28643	100	1

(Table 1-8) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
59	Q13242	Splicing factor, arginine serine rich 9	25526	100	1
	P14678	Small nuclear ribonucleoprotein-associated proteins B and B'	21580	100	1
	P18124	60S ribosomal protein L7	29150	99.99	1
	P84098	60S ribosomal protein L19	23451	99.99	1
	P60174	Triosephosphate isomerase	26652	99.96	2
60	P30048	Thioredoxin dependent peroxide reductase	27675	100	2
	P62820	Ras-related protein Rab-1A	22591	100	2
	P32119	Peroxiredoxin-2	21878	100	2
	P46781	40S ribosomal protein S9	15510	100	2
	P24539	ATP synthase B chain	28890	100	1
	Q92520	Protein FAM3C	24664	100	1
	Q9HAV7	GrpE protein homolog 1	24279	100	1
	P61313	60S ribosomal protein L15	24131	100	1
	P62081	40S ribosomal protein S7	22113	100	1
	P04908	Histone H2A type 1-B	14135	100	1
	Q06830	Peroxiredoxin 1	22096	99.99	3
	P51149	Ras related protein Rab 7	23504	99.99	2
	Q07020	60S ribosomal protein L18	21621	99.99	2
	P47985	Ubiquinol-cytochrome c reductase iron-sulfur subunit	29755	99.99	1
	P62826	GTP binding nuclear protein GSP1 Ran	24692	99.99	1
	P48047	ATP synthase O subunit	22408	99.99	1
	P32969	60S ribosomal protein L9	21863	99.99	1
P84103	Splicing factor, arginine/serine rich 3	19317	99.99	1	
61	P62988	Ubiquitin	7198	100	2
	Q9BVC6	Mitsugumin 23	26193	100	1
	P00403	Cytochrome c oxidase subunit 2	25548	100	1
	P62820	Ras-related protein Rab-1A	22591	100	1
	P18085	ADP ribosylation factor 4	20497	100	1
	P62280	40S ribosomal protein S11	18409	100	1
	P62750	60S ribosomal protein L23a	17684	100	1
	P18621	60S ribosomal protein L17	21409	99.99	1
	Q13185	Chromobox protein homolog 3	20810	99.99	1
	P62913	60S ribosomal protein L11	20239	99.99	1
	P51970	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8	20105	99.99	1
	O43169	Cytochrome b5 type B	16321	99.99	1
	Q9NS69	Mitochondrial import receptor subunit TOM22 homolog	15526	99.99	1

(Table 1-8) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
61	P61254	60S ribosomal protein L26	15155	99.99	1
	P46778	60S ribosomal protein L21	18553	99.98	1
62	P30044	Peroxiredoxin-5	22027	100	1
	P62937	Peptidyl prolyl cis trans isomerase A	17825	100	1
	P62266	40S ribosomal protein S23	15808	100	1
	P62899	60S ribosomal protein L31	14453	100	1
	P17317	Histone H2A.Z	13619	100	1
	Q93081	Histone H3.1	15392	99.99	2
	P23528	Cofilin 1	18506	99.99	1
	Q9NRP0	DC2	16817	99.99	1
	P37108	Signal recognition particle 14 kDa protein	14570	99.99	1
	P05386	60S acidic ribosomal protein P1	11506	99.99	1
	Q99877	Histone H2B type 1-N	13981	99.98	8
	P62263	40S ribosomal protein S14	16248	99.98	1
	P06899	Histone H2B type 1-J	13895	99.93	8
63	P62805	Histone H4	11402	100	7
	P62316	Small nuclear ribonucleoprotein Sm D2	13518	100	1
64	P62304	Small nuclear ribonucleoprotein E	10796	100	3
	P84090	Enhancer of rudimentary homolog	12236	100	1
	O75964	ATP synthase g chain	11391	100	1
	P61604	10 kDa heat shock protein	10924	100	1
	Q71UM5	40S ribosomal protein S27-like protein	9477	100	1
	P56385	ATP synthase e chain	7797	100	1
	O00483	NADH ubiquinone oxidoreductase MLRQ subunit	9363	99.99	1
	Q96IX5	Up-regulated during skeletal muscle growth protein 5	6458	99.99	1
O75531	Barrier-to-autointegration factor	10052	99.98	1	

Table 1-9. List of All Identified Proteins in Mitochondrial Fractions of DMSO-Treated Isogenic p21-null (p21^{-/-}) Human HCT-116 Colon Carcinoma Cells

Band No.	Accession	Description	mW	Probability (%)	Peptides
97	Q00325	Phosphate carrier protein	40068	100	3
	P05023	Sodium/potassium-transporting ATPase alpha-1 chain	112896	100	2
	Q86YZ3	Hornerin	282225	100	1
98	P21333	Filamin A	280583	100	1
	Q6P2Q9	Pre mRNA processing splicing factor 8	273424	100	1
	Q09666	Neuroblast differentiation-associated protein AHNAK	179892	100	1
	Q00610	Clathrin heavy chain 1	191491	99.98	2

(Table 1-9) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
99	Q9Y4L1	150 kDa oxygen-regulated protein	111266	100	2
	P42704	130 kDa leucine rich protein	145108	100	1
	Q15155	Nodal modulator 1	134097	99.99	1
100	P07900	Heat shock protein HSP 90 alpha	83509	100	4
	Q14697	Neutral alpha glucosidase AB	106806	100	2
	P02786	Transferrin receptor protein 1	85027	100	1
	P14625	Endoplasmic reticulum chaperone protein	92418	99.99	5
	P08238	Heat shock protein HSP 90-beta	82552	99.99	2
	P55072	Transitional endoplasmic reticulum ATPase	89075	99.99	1
101	P11021	78 kDa glucose regulated protein	74539	100	2
	P13667	Protein disulfide isomerase A4	72887	100	2
	P04843	Dolichyl diphosphooligosaccharide protein glycosyltransferase 67 kDa subunit	68526	100	1
	P38646	Stress 70 protein	73634	99.99	2
	P27824	Calnexin	67212	99.99	2
102	P10809	60 kDa heat shock protein	61016	100	10
	P07237	Protein disulfide isomerase	57080	100	8
	Q9NVI7	ATPase family AAA domain containing protein 3	66700	100	2
	Q07065	Cytoskeleton-associated protein 4	66023	100	1
	P10515	Dihydropyridyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex	65782	100	1
	P61978	Heterogeneous nuclear ribonucleoprotein K	50944	99.99	1
	P31043	T-cell-specific surface glycoprotein CD28 homolog	25401	99.99	1
	P30101	Protein disulfide-isomerase A3	56585	99.98	2
103	P25705	ATP synthase alpha chain	59716	99.99	8
	Q16658	Fascin	54496	99.99	2
	P68104	Elongation factor 1 alpha	50035	99.99	2
	P49411	Elongation factor Tu	43200	99.99	2
	P31930	Ubiquinol cytochrome c reductase complex core protein I	52585	99.99	1
	P27797	Calreticulin	48111	99.99	1
	Q15084	Protein disulfide isomerase A6	48091	99.96	1
	P06576	ATP synthase beta chain	56248	99.94	9
	Q9BQE3	Tubulin alpha-6 chain	49905	99.94	2
104	P00505	Aspartate aminotransferase	47445	100	1
	O96008	Probable mitochondrial import receptor subunit TOM40 homolog	37893	100	1
	P63261	Actin, cytoplasmic 2	41608	99.99	9
	O75390	Citrate synthase	47347	99.97	1

(Table 1-9) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
105	P04406	Glyceraldehyde 3 phosphate dehydrogenase	36030	100	5
	P07355	Annexin A2	38579	100	5
	P04075	Fructose-bisphosphate aldolase A	39327	100	1
	P22626	Heterogeneous nuclear ribonucleoproteins A2/B1	35970	100	1
	P40926	Malate dehydrogenase	35508	99.99	3
	P50213	Isocitrate dehydrogenase [NAD] subunit alpha	37574	99.99	1
106	Q99623	Prohibitin 2	33275	100	7
	P05141	ADP/ATP translocase 2	32910	100	2
	P08758	Annexin A5	35914	100	1
	P36542	ATP synthase gamma chain	32846	100	1
	P21796	Voltage-dependent anion-selective channel protein 1	30707	100	1
	P62917	60S ribosomal protein L8	28049	100	1
	Q07021	Complement component 1 Q subcomponent-binding protein	31342	99.99	3
	P45880	Voltage dependent anion selective channel protein 2	31560	99.98	4
	Q9HAV0	Guanine nucleotide-binding protein subunit beta 4	35622	99.98	1
	P35232	Prohibitin	29785	99.98	1
P62424	60S ribosomal protein L7a	14563	99.97	1	
107	O75489	NADH ubiquinone oxidoreductase 30 kDa subunit	30188	100	2
	Q13162	Peroxiredoxin 4	30520	100	1
	P30040	Endoplasmic reticulum protein ERp29	28975	100	1
	P54819	Adenylate kinase isoenzyme 2	26478	100	1
	P51572	B cell receptor associated protein 31	27974	99.99	1
	P50914	60S ribosomal protein L14	23274	99.99	1
	P08574	Cytochrome c1, heme protein	35367	99.98	1
108	P24539	ATP synthase B chain	28890	100	1
	O00217	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8	23705	100	1
	P30048	Thioredoxin dependent peroxide reductase	27675	100	4
	P62820	Ras-related protein Rab-1A	22591	100	2
	P47914	60S ribosomal protein L29	17741	100	1
	Q07202	60S ribosomal protein L18	12219	100	1
	P51148	Ras related protein Rab 5C	23467	99.99	2
	P62244	40S ribosomal protein S15a	14829	99.99	1
	Q06830	Peroxiredoxin-1	22096	99.98	1
109	P60953	Cell division control protein 42 homolog	21296	100	2
	P23284	Peptidyl prolyl cis trans isomerase B	22728	100	1
	P62280	40S ribosomal protein S11	18409	100	1
	P61254	60S ribosomal protein L26	15155	99.99	1

(Table 1-9) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
110	P13073	Cytochrome c oxidase subunit 4 isoform 1	16779	100	1
	P46779	60S ribosomal protein L28	15737	100	1
	Q16695	Histone H3.1t	15000	100	1
	O60814	Histone H2B type 1-K	13587	99.99	2
	P22392	Nucleoside diphosphate kinase	17286	99.99	1
	P15531	Nucleoside diphosphate kinase A	17196	99.99	1
	Q9P0J0	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13	16687	99.99	1
	P62910	60S ribosomal protein L32	15685	99.99	1
	P05386	60S acidic ribosomal protein P1	11506	99.99	1
	P62263	40S ribosomal protein S14	16248	99.98	1
111	P30049	ATP synthase delta chain	17479	100	1
	O95298	NADH dehydrogenase [ubiquinone] 1 subunit C2	14188	100	1
	P10606	Cytochrome c oxidase subunit 5B	10663	100	1
	O14949	Ubiquinol-cytochrome c reductase complex ubiquinone-binding protein QP-C	9900	100	1
	P62805	Histone H4	11378	99.98	2
112	O75964	ATP synthase g chain	11391	100	1
	P61604	10 kDa heat shock protein	10924	100	1
	P56134	ATP synthase f chain	10290	100	1
	P56385	ATP synthase e chain	7797	100	1
	O00483	NADH ubiquinone oxidoreductase MLRQ subunit	9363	99.99	1

Table 1-10. List of All Identified Proteins in Mitochondrial Fractions of TPT-Treated Isogenic p21-null (p21^{-/-}) Human HCT-116 Colon Carcinoma Cells

Band No.	Accession	Description	mW	Probability (%)	Peptides
113	P05023	Sodium/potassium-transporting ATPase alpha-1 chain	112896	100	2
	P21333	Filamin A	280583	100	1
	Q9NQC3	Reticulon 4	129851	100	1
	P12235	ADP/ATP translocase 1	32968	99.96	2
114	P35579	Myosin 9	226215	100	2
	P62988	Ubiquitin	7198	100	1
	Q9P2E9	Ribosome binding protein 1	152380	99.99	1
	Q00610	Clathrin heavy chain 1	191491	99.98	2
115	Q92896	Golgi apparatus protein 1	129625	100	2
	Q9BSJ8	Protein FAM62A	122857	100	2
	Q9Y4L1	150 kDa oxygen regulated protein	111266	100	2
	P42704	130 kDa leucine rich protein	145108	100	1
	Q15155	Nodal modulator 1	134097	99.99	2

(Table 1-10) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
116	P07900	Heat shock protein HSP 90 alpha	84006	100	4
	P13639	Elongation factor 2	95317	100	2
	Q14697	Neutral alpha glucosidase AB	106806	100	1
	P02786	Transferrin receptor protein 1	85027	100	1
	P08238	Heat shock protein HSP 90 beta	83212	99.99	4
	P12814	Alpha actinin 1	102895	99.99	1
	P14625	Endoplasmin	92411	99.98	8
117	P11021	78 kDa glucose regulated protein	74539	100	4
	P13667	Protein disulfide isomerase A4	72887	100	3
	Q12931	Heat shock protein 75 kDa	80059	100	1
	P27824	Calnexin	67212	99.99	4
	P38646	Stress 70 protein	73634	99.99	1
	P48741	Heat shock 70 kDa protein 7	72509	99.87	2
118	P10809	60 kDa heat shock protein	61016	100	14
	P04844	Dolichyl diphosphooligosaccharide protein glycosyltransferase 63 kDa subunit	69035	100	2
	Q07065	Cytoskeleton-associated protein 4	66023	100	2
	Q9NVI7	ATPase family AAA domain containing protein 3	66700	100	1
	P48643	T complex protein 1 subunit epsilon	59632	100	1
	P50991	T complex protein 1 subunit delta	58029	100	1
	P07237	Protein disulfide isomerase	56772	99.98	7
	P30101	Protein disulfide isomerase A3	56585	99.98	1
119	Q8TE01	DERP12	38168	100	2
	Q12931	Heat shock protein 75 kDa	80059	100	1
	P25705	ATP synthase alpha chain	59716	99.99	5
	P27797	Calreticulin	48111	99.99	2
	P68104	Elongation factor 1 alpha	49010	99.99	1
	Q15084	Protein disulfide isomerase A6	48091	99.96	1
	P06576	ATP synthase beta chain	56248	99.94	7
120	P63261	Actin, cytoplasmic 2	41743	100	3
	P49411	Elongation factor Tu	43200	100	2
121	P04406	Glyceraldehyde 3 phosphate dehydrogenase	35910	100	1
	P07355	Annexin A2	38651	99.99	3
	P62873	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta 1	37377	99.99	1
	P40926	Malate dehydrogenase	35508	99.99	1
122	Q99623	Prohibitin 2	33275	100	4
	P36542	ATP synthase gamma chain	32846	100	2

(Table 1-10) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
122	Q9H9B4	Sideroflexin 1	35596	100	1
	Q9H3N1	Thioredoxin domain-containing protein 1	31770	100	1
	Q07021	Complement component 1 Q subcomponent binding protein	31342	100	1
	P21796	Voltage dependent anion selective channel protein 1	30707	100	1
	P62753	40S ribosomal protein S6	28663	100	1
	P62879	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta 2	37331	99.99	1
	P45880	Voltage dependent anion selective channel protein 2	31560	99.98	1
	P62424	60S ribosomal protein L7a	14563	99.97	1
123	P05141	ADP/ATP translocase 2	32910	100	2
	Q9NUJ1	CDNA FLJ11342 fis, clone PLACE1010800	33910	100	1
	O60762	Dolichol phosphate mannosyltransferase	29615	100	1
	P62241	40S ribosomal protein S8	24190	100	1
	P18124	60S ribosomal protein L7	29150	99.99	1
	P84098	60S ribosomal protein L19	23451	99.99	1
	P35232	Prohibitin	29785	99.98	2
124	P62820	Ras-related protein Rab-1A	22591	100	3
	P24539	ATP synthase B chain	28890	100	1
	P30048	Thioredoxin dependent peroxide reductase	27675	100	1
	P51148	Ras related protein Rab 5C	23467	100	1
	P47985	Ubiquinol-cytochrome c reductase iron-sulfur subunit	29755	99.99	2
	P48047	ATP synthase O subunit	22408	99.99	1
	Q06830	Peroxiredoxin-1	22096	99.98	2
125	P23284	Peptidyl prolyl cis trans isomerase B	22728	100	2
	P49755	Transmembrane emp24 domain containing protein 10	24960	100	1
	P60953	Cell division control protein 42 homolog	21259	99.99	2
	Q03135	Caveolin 1	20458	99.98	1
126	P51571	Translocon-associated protein subunit delta	18986	100	1
	P46779	60S ribosomal protein L28	15737	100	1
	Q16695	Histone H3.1t	15000	100	1
	O60814	Histone H2B type 1-K	13587	99.99	2
	Q9Y3E5	Peptidyl-tRNA hydrolase 2	19194	99.99	1
	P15531	Nucleoside diphosphate kinase A	17196	99.99	1
127	P10606	Cytochrome c oxidase subunit 5B	10663	100	1
	P62805	Histone H4	11378	99.98	1
128	O75964	ATP synthase subunit g	11391	100	2

Table 1-11. List of All Identified Proteins in Cytosolic Fractions of DMSO-Treated Isogenic p21-null (p21^{-/-}) Human HCT-116 Colon Carcinoma Cells

Band No.	Accession	Description	mW	Probability (%)	Peptides
161	Q15149	Plectin-1	531411	100	2
	Q02952	A-kinase anchor protein 12	191323	100	1
162	P49327	Fatty acid synthase	273224	100	5
	P35579	Myosin 9	226215	100	3
	Q00610	Clathrin heavy chain 1	191491	99.98	2
163	P26640	Valyl tRNA synthetase	140387	100	2
	P62988	Ubiquitin	7198	100	2
	P22314	Ubiquitin-activating enzyme E1	117774	100	1
	P33176	Kinesin heavy chain	109686	100	1
	Q00839	Heterogenous nuclear ribonucleoprotein U	90422	100	1
164	Q08211	ATP dependent RNA helicase A	140827	99.99	1
	P07900	Heat shock protein HSP 90 alpha	83509	100	14
	P13639	Elongation factor 2	95317	100	3
	Q12931	Heat shock protein 75 kDa	80059	100	1
	P08238	Heat shock protein HSP 90 beta	83212	99.99	22
	P55060	Exportin-2	110346	99.99	1
	P19338	Nucleolin	76298	99.99	1
165	O43707	Alpha actinin 4	104788	99.96	6
	P15311	Ezrin	69355	100	2
	P08107	Heat shock 70 kDa protein 1	70929	99.99	3
	P11940	Polyadenylate binding protein 1	70656	99.99	2
	P12956	ATP-dependent DNA helicase 2 subunit 1	69799	99.99	2
	P13010	ATP-dependent DNA helicase 2 subunit 2	82652	99.99	1
	P11142	Heat shock cognate 71 kDa protein	70854	99.98	7
166	P29401	Transketolase	67834	99.98	1
	P49368	T complex protein 1 subunit gamma	60591	100	3
	P10809	60 kDa heat shock protein	60959	100	2
	P48643	T-complex protein 1 subunit epsilon	59632	100	1
	Q99832	T complex protein 1 subunit eta	59284	100	1
	P14618	Pyruvate kinase isozymes M1/M2	57900	99.99	11
	P50990	T complex protein 1 subunit theta	59582	99.99	3
	P40227	T complex protein 1 subunit zeta	58040	99.99	3
	Q9UJV9	Probable ATP-dependent RNA helicase DDX41	69838	99.99	1
	P31948	Stress induced phosphoprotein 1	62599	99.99	2
	P50991	T complex protein 1 subunit delta	58354	99.99	2
P61978	Heterogeneous nuclear ribonucleoprotein K	50944	99.99	2	

(Table 1-11) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
166	P06744	Glucose 6 phosphate isomerase	63107	99.99	1
	P07237	Protein disulfide-isomerase	56772	99.98	2
167	P63261	Actin, cytoplasmic 2	41743	100	3
	P26641	Elongation factor 1 gamma	50087	100	1
	P07437	Tubulin beta-2 chain	49638	99.99	9
	P06733	Alpha enolase	47139	99.99	8
	P68371	Tubulin beta-2C chain	50312	99.99	7
	P68104	Elongation factor 1 alpha	50035	99.99	4
	Q9BQE3	Tubulin alpha-6 chain	49927	99.99	4
	P68363	Tubulin alpha-ubiquitous chain	49766	99.99	4
	Q16658	Fascin	54496	99.99	1
	P61158	Actin like protein 3	47327	99.99	1
	P52597	Heterogeneous nuclear ribonucleoprotein F	45688	99.99	1
	P31153	S-adenosylmethionine synthetase isoform type-2	41792	99.9	1
	168	P04075	Fructose bisphosphate aldolase A	39327	100
P39023		60S ribosomal protein L3	46106	100	1
O15479		Melanoma-associated antigen B2	35276	100	1
P68032		Actin, alpha cardiac	41780	99.99	11
P00558		Phosphoglycerate kinase	44736	99.99	2
P08865		40S ribosomal protein SA	33000	99.97	2
P23526		Adenosylhomocysteinase	47685	99.96	2
169	P04406	Glyceraldehyde 3 phosphate dehydrogenase	36030	100	5
	P07355	Annexin A2	38651	100	3
	Q02878	60S ribosomal protein L6	32707	100	2
	P06748	Nucleophosmin	32539	100	2
	P07195	L-lactate dehydrogenase B chain	36615	100	1
	P29692	Elongation factor 1 delta	31102	100	1
	P00338	L lactate dehydrogenase A chain	36665	99.97	3
	P04083	Annexin A1	38689	99.97	2
	P05388	60S acidic ribosomal protein P0	34251	99.97	1
170	P62258	14-3-3 protein epsilon	29155	100	5
	P61981	14-3-3 protein gamma	28216	100	2
	P08758	Annexin A5	35914	100	1
	P63244	Guanine nucleotide-binding protein subunit beta 2-like 1	35054	100	1
	P25788	Proteasome subunit alpha type 3	28433	100	1
	P61247	40S ribosomal protein S3a	29567	99.99	2

(Table 1-11) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
170	O00299	Chloride intracellular channel protein 1	26905	99.99	2
	P23396	40S ribosomal protein S3	26671	99.99	2
	P18124	60S ribosomal protein L7	29150	99.99	1
	P62424	60S ribosomal protein L7a	14563	99.97	2
	P63104	14-3-3 protein zeta/delta	27727	99.96	4
	P27348	14-3-3 protein theta	27746	99.66	1
171	P62241	40S ribosomal protein S8	24190	100	3
	P62906	60S ribosomal protein L10a	24831	100	2
	P26373	60S ribosomal protein L13	24246	100	2
	P50914	60S ribosomal protein L14	23274	100	2
	P60900	Proteasome subunit alpha type 6	27354	100	1
	P30041	Peroxiredoxin-6	25019	100	1
	P15259	Phosphoglycerate mutase 2	28747	99.99	1
P60174	Triosephosphate isomerase	26652	99.98	6	
172	P46781	40S ribosomal protein S9	15510	100	2
	P46782	40S ribosomal protein S5	25700	100	1
	P40429	60S ribosomal protein L13a	23503	100	1
	P28074	Proteasome subunit beta type 5	22882	100	1
	P62081	40S ribosomal protein S7	22113	100	1
	P47914	60S ribosomal protein L29	17741	100	1
	P62826	GTP-binding nuclear protein Ran	24692	99.99	1
	P49721	Proteasome subunit beta type 2	22897	99.99	1
	Q07020	60S ribosomal protein L18	21621	99.98	2
	Q06830	Peroxiredoxin-1	22096	99.98	1
173	P61254	60S ribosomal protein L26	15155	100	3
	P07741	Adenine phosphoribosyltransferase	19595	100	2
	P60953	Cell division control protein 42 homolog	21296	100	1
	P62280	40S ribosomal protein S11	18409	100	1
	P62750	60S ribosomal protein L23a	17684	100	1
	P18621	60S ribosomal protein L17	21409	99.99	1
	P62913	60S ribosomal protein L11	20239	99.99	1
	P46783	40S ribosomal protein S10	18885	99.99	1
	P30050	60S ribosomal protein L12	17793	99.99	1
	P15531	Nucleoside diphosphate kinase A	17196	99.99	1
	P46778	60S ribosomal protein L21	18553	99.98	1

(Table 1-11) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
174	P46779	60S ribosomal protein L28	15737	100	2
	P62937	Peptidyl prolyl cis trans isomerase A	17825	100	1
	P62269	40S ribosomal protein S18	17729	100	1
	P62899	60S ribosomal protein L31	14453	100	1
	P62249	40S ribosomal protein S16	16435	99.99	2
	P14649	Myosin light polypeptide 6B	22764	99.99	1
	P23528	Cofilin 1	18506	99.99	1
	P62277	40S ribosomal protein S13	17085	99.99	1
	P05386	60S acidic ribosomal protein P1	11506	99.99	1
	P22392	Nucleoside diphosphate kinase B	17286	99.96	3
175	P67888	60S ribosomal protein L30	12805	100	2
	P18077	60S ribosomal protein L35a	12529	100	2
	P07737	Profilin 1	15044	100	1
	P09382	Galectin-1	14793	99.99	2
	Q01469	Fatty acid-binding protein	15064	99.98	2
176	Q71UM5	40S ribosomal protein S27-like protein	9477	100	2
	P42677	40S ribosomal protein S27	9454	100	2

Table 1-12. List of All Identified Proteins in Cytosolic Fractions of TPT-Treated Isogenic p21-null (p21^{-/-}) Human HCT-116 Colon Carcinoma Cells

Band No.	Accession	Description	mW	Probability (%)	Peptides
177	P21333	Filamin A	280583	100	1
178	P49327	Fatty acid synthase	273224	100	5
	P35579	Myosin 9	226215	100	5
	Q00610	Clathrin heavy chain 1	191491	99.98	3
179	P22314	Ubiquitin-activating enzyme E1	117774	100	2
	Q00839	Heterogenous nuclear ribonucleoprotein U	90422	100	2
	P53396	ATP citrate synthase	120748	100	1
180	P13639	Elongation factor 2	95317	100	4
	P45974	Ubiquitin carboxyl terminal hydrolase 5	95772	100	1
	Q12931	Heat shock protein 75 kDa	80059	100	1
	P08238	Heat shock protein HSP 90 beta	83212	99.99	19
	P12814	Alpha actinin 1	102895	99.99	2
	Q13200	26S proteasome non-ATPase regulatory subunit 2	100138	99.99	2
	P07900	Heat shock protein HSP 90 alpha	83509	99.98	14

(Table 1-12) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
181	P08107	Heat shock 70 kDa protein 1	70929	99.99	3
	P11142	Heat shock cognate 71 kDa protein	70854	99.98	12
	P48741	Heat shock 70 kDa protein 7	70109	99.98	5
	P29401	Transketolase	67834	99.98	3
182	P14618	Pyruvate kinase isozymes M1/M2	57900	100	13
	P50991	T complex protein 1 subunit delta	58029	100	3
	P10809	60 kDa heat shock protein	60959	100	2
	P49368	T complex protein 1 subunit gamma	60591	100	2
	P78371	T complex protein 1 subunit beta	57452	100	2
	P48643	T complex protein 1 subunit epsilon	59632	100	1
	P11413	Glucose-6-phosphate 1-dehydrogenase	59257	100	1
	P06744	Glucose-6-phosphate isomerase	63107	99.99	2
	P31948	Stress-induced-phosphoprotein 1	62599	99.99	2
	P17987	T-complex protein 1 subunit alpha	60305	99.99	2
	P50990	T complex protein 1 subunit theta	59582	99.99	2
	P40227	T complex protein 1 subunit zeta	58040	99.99	1
183	P68104	Elongation factor 1 alpha 1	50077	100	5
	P63261	Actin, cytoplasmic 2	41743	100	2
	P60842	Eukaryotic initiation factor 4A-I	45262	100	1
	P06733	Alpha enolase	47139	99.99	12
	P07437	Tubulin beta-2 chain	49598	99.99	9
	P26641	Elongation factor 1 gamma	50087	99.99	4
	Q9BQE3	Tubulin alpha-6 chain	49927	99.99	4
	P13929	Beta enolase	46995	99.99	3
	Q16658	Fascin	54496	99.99	1
	P67809	Nuclease sensitive element-binding protein 1	35924	99.99	1
184	P68032	Actin, alpha cardiac	41682	100	10
	P04075	Fructose biphosphate aldolase A	39327	100	3
	P22234	Multifunctional protein ADE2	47040	99.98	1
	P08865	40S ribosomal protein SA	33000	99.97	2
	P23526	Adenosylhomocysteinase	47685	99.96	2
	P07205	Phosphoglycerate kinase 1	44558	99.95	2
185	P04406	Glyceraldehyde 3 phosphate dehydrogenase	36030	100	4
	P08758	Annexin A5	35914	100	1
	P07355	Annexin A2	38579	99.99	2
	P07195	L lactate dehydrogenase B chain	36615	99.98	5

(Table 1-12) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
185	P05388	60S acidic ribosomal protein P0	34251	99.98	3
	P00338	L lactate dehydrogenase A chain	36665	99.97	2
	P04083	Annexin I	38689	99.97	1
186	P63104	14 3 3 protein zeta	27757	100	4
	P62258	14 3 3 protein epsilon 8	29155	100	2
	P63244	Guanine nucleotide binding protein beta subunit 2 like 1	35054	100	1
	P62753	40S ribosomal protein S6	28663	100	1
	P25788	Proteasome subunit alpha type 3	28433	100	1
	P23396	40S ribosomal protein S3	26671	99.99	3
	P18124	60S ribosomal protein L7	29150	99.99	1
	P15259	Phosphoglycerate mutase 2	28747	99.99	1
	P62424	60S ribosomal protein L7a	14563	99.97	1
187	P27348	14-3-3 protein theta	27746	99.66	1
	P30041	Peroxiredoxin-6	25019	100	1
	P27635	60S ribosomal protein L10	24604	100	1
	P26373	60S ribosomal protein L13	24246	100	1
	P09211	Glutathione S-transferase P	23341	100	1
	P60174	Triosephosphate isomerase	26608	99.99	3
	P62241	40S ribosomal protein S8	24190	99.99	3
	P61313	60S ribosomal protein L15	17818	99.99	2
188	P84098	60S ribosomal protein L19	23451	99.99	1
	P46782	40S ribosomal protein S5	25700	100	2
	P28074	Proteasome subunit beta type 5	22882	100	1
	P46781	40S ribosomal protein S9	15510	100	1
	Q06830	Peroxiredoxin 1	22096	99.99	3
	P62826	GTP-binding nuclear protein Ran	24692	99.99	2
189	Q07020	60S ribosomal protein L18	21621	99.99	1
	Q02543	60S ribosomal protein L18a	20748	100	3
	P18085	ADP ribosylation factor 4	20497	100	1
	P62750	60S ribosomal protein L23a	17684	100	1
	P46783	40S ribosomal protein S10	18885	99.99	2
	P23528	Cofilin 1	18506	99.99	1
	P30050	60S ribosomal protein L12	17793	99.99	1
190	Q9UNX3	60S ribosomal protein L26-like 1	15155	99.99	1
	P62937	Peptidyl prolyl cis trans isomerase A	17825	100	3
	P46776	60S ribosomal protein L27a	16551	100	2

(Table 1-12) contd....

Band No.	Accession	Description	mW	Probability (%)	Peptides
190	P61353	60S ribosomal protein L27	15787	100	2
	P46779	60S ribosomal protein L28	15737	100	1
	P60866	40S ribosomal protein S20	13364	100	1
	P62277	40S ribosomal protein S13	17085	99.99	2
	P22392	Nucleoside diphosphate kinase B	17286	99.99	1
	P62249	40S ribosomal protein S16	16435	99.99	1
	P05386	60S acidic ribosomal protein P1	11506	99.99	1
	P62263	40S ribosomal protein S14	16248	99.98	1
191	P07737	Profilin-1	15044	100	3
	P25398	40S ribosomal protein S12	14516	100	1
	P14174	Macrophage migration inhibitory factor	12476	100	1
	P35080	Profilin 2	11896	100	1
192	Q71UM5	40S ribosomal protein S27-like protein	9477	100	1

Table 2. A List of Deregulated Proteins in the Subcellular Fractions of Isogenic p21-null (p21^{-/-}) and Wild-Type Human HCT-116 Colon Carcinoma Cells Following DMSO or Topotecan (TPT) Treatment

Table 2-1. Uniquely Identified Expressed Proteins in the Nuclear Fractions of DMSO-Treated Human HCT-116 Colon Carcinoma Cells

Accession	Description	mW	Probability (%)	Peptides
P27708	CAD protein	242984	99.99	1
P62136	Serine/threonine-protein phosphatase PP1-alpha catalytic subunit	37512	100	1
Q14152	Eukaryotic translation initiation factor 3 subunit 10	166467	100	2
P35580	Myosin 10	228853	100	3
Q16576	Histone-binding protein RBBP7	47820	99.99	2
Q7L014	Probable ATP dependent RNA helicase DDX46	115068	100	1
P78347	General transcription factor II-I	112195	99.85	1
P36776	Lon protease homolog mitochondrial precursor	106422	100	1
P27824	Calnexin	67212	99.99	2
Q03252	Lamin B2	67647	99.99	1
Q92841	Probable ATP dependent RNA helicase DDX17	69276	99.99	1
P17987	T complex protein 1 subunit alpha	60305	99.99	1
P50991	T complex protein 1 subunit delta	58029	100	1
Q8NC51	Plasminogen activator inhibitor 1 RNA-binding protein	44687	99.96	2
P18754	Regulator of chromosome condensation	44940	100	1
P31930	Ubiquinol cytochrome c reductase complex core protein I	52585	100	1

(Table 2-1) contd....

Accession	Description	mW	Probability (%)	Peptides
Q15084	Protein disulfide isomerase A6	48091	99.96	1
P00505	Aspartate aminotransferase	47445	99.99	1
P23526	Adenosylhomocysteinase	47685	99.96	2
P29692	Elongation factor 1-delta	31102	99.99	1
P07195	L lactate dehydrogenase B chain	36589	99.89	3
P15880	40S ribosomal protein S2	30389	99.99	1
P62753	40S ribosomal protein S6	28663	100	1
P61247	40S ribosomal protein S3a	29567	99.99	1
Q13242	Splicing factor, arginine/serine-rich 9	25526	100	1
P38117	Electron transfer flavoprotein beta subunit	27798	99.99	1
P30040	Endoplasmic reticulum protein ERp29	28975	100	1
P84098	60S ribosomal protein L19	23451	99.99	1
P63104	14-3-3 protein zeta/delta	27727	99.96	3
P07305	Histone H1.0	20850	100	1
P23396	40S ribosomal protein S3	26671	99.99	1
P47914	60S ribosomal protein L29	17741	100	1
P61254	60S ribosomal protein L26	15155	99.99	3
P60953	CDC42 homolog	21296	100	1
O75607	Nucleoplasmin 3	19011	99.99	1
P61586	Transforming protein RhoA	21768	100	1
P62280	40S ribosomal protein S11	18409	100	1
Q03135	Caveolin-1	20458	99.98	2
P63241	Eukaryotic translation initiation factor 5A-1	11198	100	1
P46776	60S ribosomal protein L27a	16551	100	2
P42766	60S ribosomal protein L35	14421	99.96	1
P55769	NHP2 like protein 1	14164	99.99	1
O60762	Dolichol-phosphate mannosyltransferase	29615	100	1
P02794	Ferritin heavy chain	20905	100	2
P06454	Prothymosin alpha	11935	99.99	1
P09382	Galectin-1	14793	99.99	1
P61513	60S ribosomal protein L37a	10275	99.99	1
P35080	Profilin-2	11896	100	1

Table 2-2. Uniquely Identified Expressed Proteins in the Nuclear Fractions of TPT-Treated Human HCT-116 Colon Carcinoma Cells

Accession	Description	mW	Probability (%)	Peptides
Q8NI36	WD repeat protein 36	105322	99.99	1
O75691	Small subunit processome component 20 homolog	318426	100	2
P12270	Nucleoprotein TPR	265438	100	2
Q9NZM1	Myoferlin	234558	100	2
P26358	DNA (cytosine-5)-methyltransferase 1	183048	99.99	1
O60264	SWI SNF related matrix associated actin dependent regulator of chromatin subfamily A member 5	121549	99.99	2
Q14683	Structural maintenance of chromosome 1 like 1 protein	143158	99.99	1
Q12906	Interleukin enhancer binding factor 3	95279	99.99	1
P43243	Matrin 3	94388	100	1
P12956	ATP-dependent DNA helicase 2 subunit 1	69799	99.95	2
P54652	Heat shock-related 70 kDa protein 2	71296	100	5
P41250	Glycyl tRNA synthetase	81825	99.98	1
O60506	Heterogeneous nuclear ribonucleoprotein Q	69589	100	1
Q9NVI7	ATPase family AAA domain-containing protein 3A	66700	100	1
P17844	Probable ATP dependent RNA helicase DDX5	69276	100	3
P49748	Very-long-chain specific acyl-CoA dehydrogenase	70398	100	1
P20700	Lamin B1	66367	100	1
Q07666	KH domain containing, RNA binding, signal transduction associated-protein 1	48197	100	1
P78371	T complex protein 1 subunit beta	57452	99.99	2
Q12849	G rich sequence factor 1	50138	99.99	1
Q9H0S4	Probable ATP dependent RNA helicase DDX47	50614	100	1
Q05639	Elongation factor 1-alpha 2	50077	99.97	2
Q8TDN6	Brix domain containing protein 2	41374	100	2
Q14103	Heterogeneous nuclear ribonucleoprotein D0	38410	100	1
Q15365	Poly(Rc)-binding protein 1	37473	99.99	2
P36551	Coproporphyrinogen III oxidase	49682	99.98	1
Q3ZCQ8	Import inner membrane translocase subunit TIM50	39621	100	1
P22087	Fibrillarin	33763	100	1
Q9Y277	Voltage dependent anion selective channel protein 2	30048	100	2
Q02878	60S ribosomal protein L6	32707	100	1
P62424	60S ribosomal protein L7a	14563	99.97	2
Q16629	Splicing factor arginine serine rich 7	27350	99.98	2
Q07955	Splicing factor, arginine/serine rich-1	26838	100	2
P30041	Peroxiredoxin 6	25019	100	1
P08574	Cytochrome c1, heme protein	35367	99.98	2

(Table 2-2) contd....

Accession	Description	mW	Probability (%)	Peptides
P19388	DNA directed RNA polymerase II 23 kDa polypeptide	24595	100	1
Q92979	Probable ribosome biogenesis protein NEP1	26703	99.99	1
P62701	40S ribosomal protein S4	21922	100	1
Q02978	Mitochondrial 2-oxoglutarate/malate carrier protein	34222	100	1
P26373	60S ribosomal protein L13	24246	100	1
O14818	Proteasome subunit alpha type 7	27917	100	1
O75396	Vesicle-trafficking protein SEC22b	24724	99.99	1
P32969	60S ribosomal protein L9	21863	99.99	1
P49720	Proteasome subunit beta type 3	21403	99.99	1
P62081	40S ribosomal protein S7	22113	100	1
P04179	Superoxide dismutase [Mn]	22190	100	1
P62750	60S ribosomal protein L23a	17684	100	1
O43169	Cytochrome b5 outer mitochondrial membrane isoformI	16321	99.99	3
O95169	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 8	21861	99.99	1
P49755	Transmembrane emp24 domain-containing protein 10	24960	100	1
P51970	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8	20105	99.99	1
P05386	60S acidic ribosomal protein P1	11506	99.99	1
Q6EEV6	Small ubiquitin related modifier 4	10678	100	1
P62899	60S ribosomal protein L31	14453	100	1
P99999	Cytochrome c	11598	100	1
P61769	Beta-2-microglobulin	13705	100	1
P84090	Enhancer of rudimentary homolog	12236	100	3
P62304	Small nuclear ribonucleoprotein E	10796	100	2
Q6PL18	ATPase family AAA domain-containing protein 2	158556	100	1
Q8IYB3	Serine/arginine repetitive matrix protein 1	102336	99.99	1
Q8IY81	Putative rRNA methyltransferase 3	96576	100	1
P49736	DNA replication licensing factor MCM2	101832	100	2
Q92945	Far upstream element-binding protein 2	73147	100	1
P11142	Heat shock cognate 71 kDa protein	70854	99.98	1
P05455	Lupus La protein	46837	100	1
P08559	Pyruvate dehydrogenase E1 component alpha subunit	43296	100	1
Q96DT0	Galectin-12	37542	99.99	1
Q9UJZ1	Stomatin-like protein 2	38510	99.99	1
O75494	FUS-interacting serine-arginine-rich protein 1	31301	99.99	1
Q9H9B4	Sideroflexin-1	35596	100	2
P04792	Heat-shock protein beta-1	22768	99.96	1

(Table 2-2) contd....

Accession	Description	mW	Probability (%)	Peptides
P46781	40S ribosomal protein S9	15510	100	2
P48047	ATP synthase O subunit	22408	99.99	2
P84103	Splicing factor, arginine/serine-rich 3	19317	99.99	2
P84077	ADP-ribosylation factor 1	20697	100	1
P60468	Protein transport protein Sec61 subunit beta	9975	99.99	1
Q9Y3B4	Pre-mRNA branch site protein p14	14585	100	1
P61803	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit DAD1	12497	100	1
P09669	Cytochrome c oxidase polypeptide VIc	8781	99.99	1

Table 2-3. Uniquely Identified Expressed Proteins in the Mitochondrial Fractions of DMSO-Treated Human HCT-116 Colon Carcinoma Cells

Accession	Description	mW	Probability (%)	Peptides
P46940	Ras GTPase-activating-like protein IQGAP1	189132	100	2
Q92896	Golgi apparatus protein 1	129625	100	2
P69849	Nodal modulator 3	134097	99.99	2
P08195	4F2 cell surface antigen heavy chain	57908	100	1
P19338	Nucleolin	76298	99.99	1
P78371	T complex protein 1 subunit beta	57452	99.98	1
P61978	Heterogeneous nuclear ribonucleoprotein K	50944	99.99	1
P26641	Elongation factor 1 gamma	50087	99.99	1
Q9BQE3	Tubulin alpha-6 chain	50001	99.99	3
P00505	Aspartate aminotransferase	47445	99.99	2
P49411	Elongation factor Tu	49510	99.99	2
Q9UJZ1	Stomatin-like protein 2	38510	99.99	1
P00558	Phosphoglycerate kinase 1	44736	99.99	2
P05388	60S acidic ribosomal protein P0	34251	99.97	1
P36551	Coproporphyrinogen III oxidase	49682	99.98	1
Q9NYK5	Mitochondrial 39S ribosomal protein L39	38584	100	1
Q05639	Elongation factor 1-alpha 2	48582	99.97	1
P36873	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit	34535	100	2
P07339	Cathepsin D	44523	100	1
Q9H3N1	Thioredoxin domain containing protein 1	31770	100	1
Q9H7Z7	Prostaglandin E synthase 2	41916	100	1
O00299	Chloride intracellular channel protein 1	26905	99.99	1
P50914	60S ribosomal protein L14	23274	100	2

(Table 2-3) contd....

Accession	Description	mW	Probability (%)	Peptides
P51572	B cell receptor associated protein 31	27974	99.99	1
Q13162	Peroxiredoxin 4	30520	100	2
P84098	60S ribosomal protein L19	23451	99.99	1
P15259	Phosphoglycerate mutase 2	28747	99.99	1
Q92520	Protein FAM3C	24664	100	1
Q9BVK6	Transmembrane emp24 domain containing protein 9	24993	99.99	1
P40429	60S ribosomal protein L13a	23503	100	1
P04179	Superoxide dismutase [Mn]	22190	100	1
P47914	60S ribosomal protein L29	17741	100	1
Q03135	Caveolin 1	20458	99.98	3
P61254	60S ribosomal protein L26	15155	99.99	1
P83731	60S ribosomal protein L24	17504	99.99	1
O14880	Microsomal glutathione S-transferase 3	16505	100	1
P62249	40S ribosomal protein S16	16435	99.99	2
P13073	Cytochrome c oxidase subunit IV isoform 1	16779	100	1
P30049	ATP synthase delta chain	17479	100	1
Q04837	Single stranded DNA binding protein	17249	100	1
P18077	60S ribosomal protein L35a	12529	100	1
Q12906	Interleukin enhancer-binding factor 3	95279	99.99	1
Q9UHD8	Septin-9	65402	100	1
P01889	HLA class I histocompatibility antigen, B-7 alpha chain	40460	100	1
Q9HAV0	Guanine nucleotide-binding protein subunit beta 4	35622	99.98	2
Q02878	60S ribosomal protein L6	32707	100	2
P62241	40S ribosomal protein S8	24190	100	1
P32969	60S ribosomal protein L9	21863	99.99	1
Q96BM9	ADP-ribosylation factor-like protein 8A	21416	100	1
P46778	60S ribosomal protein L21	18553	99.98	1
P62988	Ubiquitin	7198	100	1
P60660	Myosin light polypeptide 6	16930	99.99	2
P63241	Eukaryotic translation initiation factor 5A-1	11198	100	1
P46779	60S ribosomal protein L28	15737	100	1
P61088	Ubiquitin-conjugating enzyme E2 N	17138	100	1

Table 2-4. Uniquely Identified Expressed Proteins in the Mitochondrial Fractions of TPT-Treated Human HCT-116 Colon Carcinoma Cells

Accession	Description	mW	Probability (%)	Peptides
Q15149	Plectin 1	531411	100	1
P46977	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit STT3A	80544	99.98	1
O15260	Surfeit locus protein 4	30372	99.99	1
P16144	Integrin beta 4	202021	100	2
O43795	Myosin Ib	124871	99.99	1
O00159	Myosin Ic	118081	99.99	1
P31930	Ubiquinol cytochrome c reductase complex core protein I	52585	99.98	1
Q16181	Septin-7	50258	100	1
P04181	Ornithine aminotransferase	48504	99.98	2
Q15019	Septin 2	41499	99.99	1
P17693	HLA class I histocompatibility antigen alpha chain G	38199	100	1
P18124	60S ribosomal protein L7	29150	99.99	1
P23396	40S ribosomal protein S3	26671	99.99	1
O75489	NADH ubiquinone oxidoreductase 30 kDa subunit	30188	100	1
Q9NUJ1	CDNA FLJ11342 fis, clone PLACE1010800	33910	100	1
Q5RAI9	Vesicle trafficking protein SEC22b	24724	100	1
P46782	40S ribosomal protein S5	25700	100	1
P47985	Cytochrome b-c1 complex subunit Rieske	29755	99.99	2
P62750	60S ribosomal protein L23a	17684	99.99	1
Q9NS69	Mitochondrial import receptor subunit TOM22	15526	99.99	1
P60953	Cell division control protein 42 homolog	21296	100	1
P62899	60S ribosomal protein L31	14453	100	1
P62937	Peptidyl prolyl cis trans isomerase A	17825	99.99	2
P62851	40S ribosomal protein S25	13440	100	1
P19105	Myosin regulatory light chain 2	19781	100	1
P61353	60S ribosomal protein L27	15787	100	1
P62277	40S ribosomal protein S13	17085	99.99	1
P07737	Profilin 1	15044	100	1
P56134	ATP synthase f chain	10290	100	1
P31949	Protein S100-A11	11279	100	1
O15427	Monocarboxylate transporter 4	49470	100	2
P49327	Fatty acid synthase	273224	100	2
P29317	Ephrin type-A receptor 2	108255	100	3
P51659	Peroxisomal multifunctional enzyme type 2	79687	100	2
P62873	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta 1	37377	100	3
P07910	Heterogeneous nuclear ribonucleoproteins C1/C2	33667	100	1

(Table 2-4) contd....

Accession	Description	mW	Probability (%)	Peptides
Q9H9B4	Sideroflexin-1	35596	100	2
P62917	60S ribosomal protein L8	28049	100	2
P31946	14-3-3 protein beta/alpha	27741	99.96	2
P38117	Electron transfer flavoprotein subunit beta	27798	99.99	1
O00217	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8	23705	100	1
P28074	Proteasome subunit beta type 5	22882	100	1
P62266	40S ribosomal protein S23	15808	100	1
P30050	60S ribosomal protein L12	17793	99.99	1
Q96IX5	Up-regulated during skeletal muscle growth protein 5	6458	99.99	1
P14174	Macrophage migration inhibitory factor	12476	100	1

Table 2-5. Uniquely Identified Expressed Proteins in the Cytosolic Fractions of DMSO-Treated Human HCT-116 Colon Carcinoma Cells

Accession	Description	mW	Probability (%)	Peptides
O75369	Filamin B	277576	100	1
P62988	Ubiquitin	7198	100	1
Q14152	Eukaryotic translation initiation factor 3 subunit 10	166467	100	2
Q04637	Eukaryotic translation initiation factor 4 gamma 1	153954	100	1
P49736	DNA replication licensing factor MCM2	101832	100	1
P55786	Puromycin sensitive aminopeptidase	103210	99.99	1
P55884	Eukaryotic translation initiation factor 3 subunit 9	90853	99.99	1
P12956	ATP dependent DNA helicase II 70 kDa subunit	69799	99.95	1
Q02790	FK506-binding protein 4	51772	99.98	2
P31948	Stress induced phosphoprotein 1	62599	99.98	1
P10809	60 kDa heat shock protein	61016	99.98	1
P26599	Polypyrimidine tract binding protein 1	26599	99.99	1
P48643	T complex protein 1 subunit epsilon	59632	100	2
18204201	Insulin-like growth factor 2 mRNA binding protein 2	65991	100	1
P61158	Actin-like protein 3	47327	99.99	1
P12277	Creatine kinase B-type	42685	100	2
P06748	Nucleophosmin	32539	100	1
Q05639	Elongation factor 1-alpha 2	48582	99.97	2
P08758	Annexin A5	36175	99.99	1
P00491	Purine nucleoside phosphorylase	32127	99.99	1
P62753	40S ribosomal protein S6	28663	100	1
P06493	Cell division control protein 2 homolog	33904	100	1

(Table 2-5) contd....

Accession	Description	mW	Probability (%)	Peptides
Q13765	Nascent polypeptide associated complex alpha subunit	23191	99.98	1
Q04917	14 3 3 protein eta	28194	99.99	2
P68402	Platelet-activating factor acetylhydrolase IB subunit beta	25476	100	1
P28072	Proteasome subunit beta type 6	25273	99.99	1
Q9UBQ5	Eukaryotic translation initiation factor 3 subunit 12	25043	100	1
P62750	60S ribosomal protein L23a	17684	100	1
P61254	60S ribosomal protein L26	15155	99.99	3
P18621	60S ribosomal protein L17	21409	99.99	1
P52434	DNA-directed RNA polymerases I, II, and III 17.1 kDa polypeptide	17132	99.99	1
P46776	60S ribosomal protein L27a	16551	100	1
P62244	40S ribosomal protein S15a	14829	99.99	1
P49207	60S ribosomal protein L34	13284	100	1
Q14204	Dynein heavy chain	532412	99.99	2
P46940	Ras GTPase-activating-like protein IQGAP1	189132	100	1
Q13200	26S proteasome non-ATPase regulatory subunit 2	100138	99.99	1
P67809	Nuclease sensitive element-binding protein 1	35924	99.99	1
Q13126	S-methyl-5-thioadenosine phosphorylase	31236	99.99	1
P12004	Proliferating cell nuclear antigen	28769	99.98	1
P56537	Eukaryotic translation initiation factor 6	26599	99.99	1
P46778	60S ribosomal protein L21	18553	99.98	1
P30050	60S ribosomal protein L12	17793	99.99	1
P60660	Myosin light polypeptide 6	16930	99.99	2
Q9Y587	AP-4 complex subunit sigma-1	17005	100	1
P62829	60S ribosomal protein L23	14865	100	2

Table 2-6. Uniquely Identified Expressed Proteins in Cytosolic Fraction of TPT-Treated Human HCT-116 Colon Carcinoma Cells

Accession	Description	mW	Probability (%)	Peptides
P07814	Bifunctional aminoacyl tRNA synthetase	162922	99.99	1
Q14974	Importin beta-1 subunit	97062	99.99	2
Q9Y262	Eukaryotic translation initiation factor 3 subunit 6 interacting protein	66684	100	1
P40227	T complex protein 1 subunit zeta	58040	99.97	2
P60842	Eukaryotic initiation factor 4A-I	45262	100	2
P50995	Annexin A11	54355	100	1
Q9Y230	RuvB-like 2	51155	100	1
P36578	60S ribosomal protein L4	44906	100	1

(Table 2-6) contd....

Accession	Description	mW	Probability (%)	Peptides
P31153	S-adenosylmethionine synthetase isoform type-2	41792	99.99	1
O15372	Eukaryotic translation initiation factor 3 subunit 3	39905	99.96	1
P40925	Malate dehydrogenase	36403	99.97	2
P29692	Elongation factor 1 delta	31102	99.97	2
P05198	Eukaryotic translation initiation factor 2 subunit 1	36085	99.99	1
P46777	60S ribosomal protein L5	14660	99.98	1
P37837	Transaldolase	37452	99.99	1
P62701	40S ribosomal protein S4	21922	100	1
O14818	Proteasome subunit alpha type 7	27917	100	1
P52565	Rho GDP dissociation inhibitor 1	23192	99.99	1
P30086	Phosphatidylethanolamine binding protein	20884	99.99	1
P19105	Myosin regulatory light chain 2	19781	100	1
P60866	40S ribosomal protein S20	13364	99.99	2
Q9Y3U8	60S ribosomal protein L36	12207	99.99	1
P25398	40S ribosomal protein S12	14516	100	1
Q9H882	Myosin-14	228004	99.99	1
P41252	Isoleucyl-tRNA synthetase	144960	100	1
O60506	Heterogeneous nuclear ribonucleoprotein Q	69589	100	2
P24534	Elongation factor 1-beta	24764	99.99	1
P62906	60S ribosomal protein L10a	24831	100	1
P43487	Ran-specific GTPase-activating protein	23310	99.99	1
P62266	40S ribosomal protein S23	15808	100	1
Q969Q0	60S ribosomal protein L36a-like	12469	100	1
P62888	60S ribosomal protein L30	12784	100	2
Q6P5R6	Ribosomal protein L22-like 1	14607	100	1

Table 2-7. Uniquely Identified Expressed Proteins in the Nuclear Fractions of DMSO-Treated Human HCT-116 p21^{-/-} Colon Carcinoma Cells

Accession	Description	mW	Probability (%)	Peptides
Q15393	Splicing factor 3B subunit 3	135506	100	1
Q9H583	HEAT repeat containing protein 1	242213	100	1
Q13435	Splicing factor 3B subunit 2	97595	100	1
O75533	Splicing factor 3B subunit 1	145723	100	2
Q9Y4L1	150 kDa oxygen regulated protein	111266	100	1
Q00610	Clathrin heavy chain 1	191491	99.98	2
Q13263	Transcription intermediary factor 1-beta	88790	100	1

(Table 2-7) contd....

Accession	Description	mW	Probability (%)	Peptides
P12814	Alpha actinin 1	102895	99.99	3
P43304	Glycerol 3 phosphate dehydrogenase	80763	100	1
P04843	Dolichyl diphosphooligosaccharide protein glycosyltransferase 67 kDa subunit	68526	100	2
O60832	H ACA ribonucleoprotein complex subunit 4	58113	100	1
Q15428	Splicing factor 3A subunit 2	49224	99.99	1
P14866	Heterogeneous nuclear ribonucleoprotein L	60149	99.99	2
Q9Y2X3	Nucleolar protein NOP5	59540	100	1
O60506	Heterogeneous nuclear ribonucleoprotein Q	69589	100	1
P50990	T complex protein 1 subunit theta	59582	99.99	1
P17987	T complex protein 1 subunit alpha	60305	99.99	1
P27797	Calreticulin	48111	100	1
P31943	Heterogeneous nuclear ribonucleoprotein H	49168	99.99	3
P34896	Serine hydroxymethyltransferase	52551	100	1
P26641	Elongation factor 1 gamma	50087	100	2
Q09028	Histone binding protein RBBP4	47600	100	1
P22695	Ubiquinol-cytochrome-c reductase complex core protein 2	48412	100	1
P39023	60S ribosomal protein L3	46106	100	1
P51991	Heterogeneous nuclear ribonucleoprotein A3	39570	99.99	2
Q13595	Transformer 2 protein homolog	32296	100	1
P36873	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit	35544	100	2
Q15717	ELAV like protein 1	36069	100	1
Q07955	Splicing factor, arginine serine rich 1	27727	100	2
P42126	3,2-trans-enoyl-CoA isomerase	32795	99.99	1
P50914	60S ribosomal protein L14	23274	100	2
P15259	Phosphoglycerate mutase 2	28747	99.99	1
P46782	40S ribosomal protein S5	25700	100	2
P40429	60S ribosomal protein L13a	23503	100	1
Q02543	60S ribosomal protein L18a	20748	99.99	1
P62277	40S ribosomal protein S13	17085	99.99	1
Q6EEV6	Small ubiquitin related modifier 4	10678	100	1
P51571	Translocon-associated protein subunit delta	18986	99.99	1
P05387	60S acidic ribosomal protein P2	4692	100	1
O14949	Ubiquinol-cytochrome c reductase complex ubiquinone-binding protein QP-C	9900	100	1
P56134	ATP synthase f chain	10290	100	1
P35579	Myosin-9	226215	100	3
Q9BQG0	Myb-binding protein 1A	148761	99.99	1

(Table 2-7) contd....

Accession	Description	mW	Probability (%)	Peptides
Q9NVP1	ATP-dependent RNA helicase DDX18	75407	100	1
Q13123	Protein Red	65631	100	1
Q9UM54	Myosin-6	149692	100	1
Q9UJZ1	Stomatin-like protein 2	38510	99.99	1
P12004	Proliferating cell nuclear antigen	28769	99.98	1
P62917	60S ribosomal protein L8	28049	100	2
P63244	Guanine nucleotide-binding protein subunit beta 2-like 1	35054	100	1
P13804	Electron transfer flavoprotein subunit alpha	35080	100	1
P07305	Histone H1.0	20850	100	3
O60762	Dolichol-phosphate mannosyltransferase	29615	100	1
Q9Y3D9	Mitochondrial ribosomal protein S23	21771	100	2
P49755	Transmembrane emp24 domain-containing protein 10	24960	100	1
P62847	40S ribosomal protein S24	15274	100	1
P13073	Cytochrome c oxidase subunit 4 isoform 1	16779	100	2
Q8N983	39S ribosomal protein L43	23431	99.99	1
Q01469	Fatty acid-binding protein	15064	99.98	1

Table 2-8. Uniquely Identified Expressed Proteins in the Nuclear Fractions of TPT-Treated Human HCT-116 p21^{-/-} Colon Carcinoma Cells

Accession	Description	mW	Probability (%)	Peptides
Q16531	DNA damage-binding protein 1	126901	99.99	1
O15260	Surfeit locus protein 4	30372	99.99	1
Q9NR30	Nucleolar RNA helicase 2	87290	100	3
P55072	Transitional endoplasmic reticulum ATPase	89075	99.99	1
P40939	Trifunctional enzyme subunit alpha	83053	99.99	1
P15311	Moesin	69355	100	1
Q53GS9	U4/U6.U5 tri-snRNP-associated protein 2	65105	100	1
Q07666	KH domain-containing, RNA-binding, signal transduction-associated protein 1	48197	100	1
P29401	Transketolase	67834	99.98	1
Q10713	Mitochondrial processing peptidase alpha subunit	58215	99.99	1
Q16658	Fascin	54496	99.99	1
P08758	Annexin A5	35914	100	3
Q13162	Peroxiredoxin 4	30520	100	1
P32969	60S ribosomal protein L9	21863	99.99	1
P61313	60S ribosomal protein L15	24131	100	1
Q9BVC6	Mitsugumin 23	26193	100	1

(Table 2-8) contd....

Accession	Description	mW	Probability (%)	Peptides
P00403	Cytochrome c oxidase subunit 2	25548	100	1
Q13185	Chromobox protein homolog 3	20810	99.99	1
P05386	60S acidic ribosomal protein P1	11506	99.99	1
P62899	60S ribosomal protein L31	14453	100	1
Q9NRPO	DC2	16817	99.99	1
P62316	Small nuclear ribonucleoprotein Sm D2	13518	100	1
P62304	Small nuclear ribonucleoprotein E	10796	100	3
O00483	NADH ubiquinone oxidoreductase MLRQ subunit	9363	99.99	1
P05023	Sodium/potassium-transporting ATPase alpha-1 chain	112896	100	2
Q92945	Far upstream element-binding protein 2	73147	100	2
P13667	Protein disulfide-isomerase A4	72887	100	1
Q08945	FACT complex subunit SSRP1	75890	100	1
P04844	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 63 kDa subunit	69035	100	1
Q969V3	Nicalin	62975	100	1
Q96AG4	Leucine-rich repeat-containing protein 59	34931	99.99	1
P04083	Annexin A1	38689	99.97	1
P50213	Isocitrate dehydrogenase [NAD] subunit alpha	37574	99.99	1
P36542	ATP synthase gamma chain	32846	100	1
P48047	ATP synthase O subunit	22408	99.99	1
Q92520	Protein FAM3C	24664	100	1
P62081	40S ribosomal protein S7	22113	100	1
Q9HAV7	GrpE protein homolog 1	24279	100	1
P51970	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 8	20105	99.99	1
O43169	Cytochrome b5 type B	16321	99.99	1
P62820	Ras-related protein Rab-1A	22591	100	1
P37108	Signal recognition particle 14 kDa protein	14570	99.99	1
P62266	40S ribosomal protein S23	15808	100	1
Q71UM5	40S ribosomal protein S27-like protein	9477	100	1
P84090	Enhancer of rudimentary homolog	12236	100	1

Table 2-9. Uniquely Identified Expressed Proteins in the Mitochondrial Fractions of DMSO-Treated Human HCT-116 p21-/- Colon Carcinoma Cells

Accession	Description	mW	Probability (%)	Peptides
Q00325	Phosphate carrier protein	40068	100	3
Q86YZ3	Hornerin	282225	100	1
Q09666	Neuroblast differentiation-associated protein AHNAK	179892	100	1

(Table 2-9) contd....

Accession	Description	mW	Probability (%)	Peptides
Q6P2Q9	Pre mRNA processing splicing factor 8	273424	100	1
P04843	Dolichyl diphosphooligosaccharide protein glycosyltransferase 67 kDa subunit	68526	100	1
P31930	Ubiquinol cytochrome c reductase complex core protein I	52585	99.99	1
Q9BQE3	Tubulin alpha-6 chain	49905	99.94	2
O75390	Citrate synthase	47347	99.97	1
P22626	Heterogeneous nuclear ribonucleoproteins A2/B1	35970	100	1
P50213	Isocitrate dehydrogenase [NAD] subunit alpha	37574	99.99	1
P62917	60S ribosomal protein L8	28049	100	1
Q9HAV0	Guanine nucleotide-binding protein subunit beta 4	35622	99.98	1
P50914	60S ribosomal protein L14	23274	99.99	1
P51572	B cell receptor associated protein 31	27974	99.99	1
P08574	Cytochrome c 1, heme protein	35367	99.98	1
O75489	NADH ubiquinone oxidoreductase 30 kDa subunit	30188	100	2
Q13162	Peroxisredoxin 4	30520	100	1
P30040	Endoplasmic reticulum protein ERp29	28975	100	1
Q07202	60S ribosomal protein L18	12219	100	1
P62280	40S ribosomal protein S11	18409	100	1
P61254	60S ribosomal protein L26	15155	99.99	1
Q9P0J0	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 13	16687	99.99	1
P62910	60S ribosomal protein L32	15685	99.99	1
P62263	40S ribosomal protein S14	16248	99.98	1
P22392	Nucleoside diphosphate kinase	17286	99.99	1
P30049	ATP synthase delta chain	17479	100	1
P61604	10 kDa heat shock protein	10924	100	1
O00483	NADH ubiquinone oxidoreductase MLRQ subunit	9363	99.99	1
P56385	ATP synthase e chain	7797	100	1
P55072	Transitional endoplasmic reticulum ATPase	89075	99.99	1
P31043	T-cell-specific surface glycoprotein CD28 homolog	25401	99.99	1
P10515	Dihydrolipoylysine-residue acetyltransferase component of pyruvate dehydrogenase complex	65782	100	1
P61978	Heterogeneous nuclear ribonucleoprotein K	50944	99.99	1
Q16658	Fascin	54496	99.99	2
P00505	Aspartate aminotransferase	47445	100	1
O96008	Probable mitochondrial import receptor subunit TOM40 homolog	37893	100	1
P04075	Fructose-bisphosphate aldolase A	39327	100	1
P08758	Annexin A5	35914	100	1
P54819	Adenylate kinase isoenzyme 2	26478	100	1

(Table 2-9) contd....

Accession	Description	mW	Probability (%)	Peptides
P47914	60S ribosomal protein L29	17741	100	1
O00217	NADH dehydrogenase [ubiquinone] iron-sulfur protein 8	23705	100	1
P62244	40S ribosomal protein S15a	14829	99.99	1
P13073	Cytochrome c oxidase subunit 4 isoform 1	16779	100	1
P05386	60S acidic ribosomal protein P1	11506	99.99	1
O95298	NADH dehydrogenase [ubiquinone] 1 subunit C2	14188	100	1
O14949	Ubiquinol-cytochrome c reductase complex ubiquinone-binding protein QP-C	9900	100	1
P56134	ATP synthase f chain	10290	100	1

Table 2-10. Uniquely Identified Expressed Proteins in the Mitochondrial Fractions of TPT-Treated Human HCT-116 p21^{-/-} Colon Carcinoma Cells

Accession	Description	mW	Probability (%)	Peptides
Q9NQC3	Reticulon 4	129851	100	1
Q9P2E9	Ribosome binding protein 1	152380	99.99	1
P35579	Myosin 9	226215	100	2
P62988	Ubiquitin	7198	100	1
Q92896	Golgi apparatus protein 1	129625	100	2
P13639	Elongation factor 2	95317	100	2
P12814	Alpha actinin 1	102895	99.99	1
P48741	Heat shock 70 kDa protein 7	72509	99.87	2
P04844	Dolichyl diphosphooligosaccharide protein glycosyltransferase 63 kDa subunit	69035	100	2
P48643	T complex protein 1 subunit epsilon	59632	100	1
P50991	T complex protein 1 subunit delta	58029	100	1
Q8TE01	DERP12	38168	100	2
P62753	40S ribosomal protein S6	28663	100	1
Q9H9B4	Sideroflexin 1	35596	100	1
O60762	Dolichol phosphate mannosyltransferase	29615	100	1
P18124	60S ribosomal protein L7	29150	99.99	1
P62241	40S ribosomal protein S8	24190	100	1
Q9NUJ1	CDNA FLJ11342 fis, clone PLACE1010800	33910	100	1
P48047	ATP synthase O subunit	22408	99.99	1
Q03135	Caveolin 1	20458	99.98	1
P49755	Transmembrane emp24 domain containing protein 10	24960	100	1
P51571	Translocon-associated protein subunit delta	18986	100	1
Q9BSJ8	Protein FAM62A	122857	100	2
P62873	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta 1	37377	99.99	1

(Table 2-10) contd....

Accession	Description	mW	Probability (%)	Peptides
P62879	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta 2	37331	99.99	1
Q9H3N1	Thioredoxin domain-containing protein 1	31770	100	1
P84098	60S ribosomal protein L19	23451	99.99	1
P47985	Ubiquinol-cytochrome c reductase iron-sulfur subunit	29755	99.99	2
Q9Y3E5	Peptidyl-tRNA hydrolase 2	19194	99.99	1

Table 2-11. Uniquely Identified Expressed Proteins in the Cytosolic Fractions of DMSO-Treated Human HCT-116 p21^{-/-} Colon Carcinoma Cells

Accession	Description	mW	Probability (%)	Peptides
P26640	Valyl tRNA synthetase	140387	100	2
Q08211	ATP dependent RNA helicase A	140827	99.99	1
P55060	Exportin-2	110346	99.99	1
P19338	Nucleolin	76298	99.99	1
P12956	ATP-dependent DNA helicase 2 subunit 1	69799	99.99	2
P11940	Polyadenylate binding protein 1	70656	99.99	2
P13010	ATP-dependent DNA helicase 2 subunit 2	82652	99.99	1
P61978	Heterogeneous nuclear ribonucleoprotein K	50944	99.99	2
Q99832	T complex protein 1 subunit eta	59284	100	1
P61158	Actin like protein 3	47327	99.99	1
P52597	Heterogeneous nuclear ribonucleoprotein F	45688	99.99	1
P31153	S-adenosylmethionine synthetase isoform type-2	41792	99.9	1
P39023	60S ribosomal protein L3	46106	100	1
Q02878	60S ribosomal protein L6	32707	100	2
P29692	Elongation factor 1 delta	31102	100	1
P06748	Nucleophosmin	32539	100	2
P50914	60S ribosomal protein L14	23274	100	2
P60900	Proteasome subunit alpha type 6	27354	100	1
P47914	60S ribosomal protein L29	17741	100	1
P49721	Proteasome subunit beta type 2	22897	99.99	1
P40429	60S ribosomal protein L13a	23503	100	1
P62081	40S ribosomal protein S7	22113	100	1
P61254	60S ribosomal protein L26	15155	100	3
P46778	60S ribosomal protein L21	18553	99.98	1
P18621	60S ribosomal protein L17	21409	99.99	1
P62280	40S ribosomal protein S11	18409	100	1
P60953	Cell division control protein 42 homolog	21296	100	1

(Table 2-11) contd....

Accession	Description	mW	Probability (%)	Peptides
P18077	60S ribosomal protein L35a	12529	100	2
P67888	60S ribosomal protein L30	12805	100	2
P42677	40S ribosomal protein S27	9454	100	2
Q15149	Plectin-1	531411	100	2
Q02952	A-kinase anchor protein 12	191323	100	1
P33176	Kinesin heavy chain	109686	100	1
P15311	Ezrin	69355	100	2
P07237	Protein disulfide-isomerase	56772	99.98	2
Q9UJV9	Probable ATP-dependent RNA helicase DDX41	69838	99.99	1
O15479	Melanoma-associated antigen B2	35276	100	1
O00299	Chloride intracellular channel protein 1	26905	99.99	2
P61981	14-3-3 protein gamma	28216	100	2
P61247	40S ribosomal protein S3a	29567	99.99	2
P62906	60S ribosomal protein L10a	24831	100	2
P62913	60S ribosomal protein L11	20239	99.99	1
P07741	Adenine phosphoribosyltransferase	19595	100	2
P15531	Nucleoside diphosphate kinase A	17196	99.99	1
P14649	Myosin light polypeptide 6B	22764	99.99	1
P62899	60S ribosomal protein L31	14453	100	1
P09382	Galectin-1	14793	99.99	2
Q01469	Fatty acid-binding protein	15064	99.98	2

Table 2-12. Uniquely Identified Expressed Proteins in the Cytosolic Fractions of TPT-Treated Human HCT-116 p21^{-/-} Colon Carcinoma Cells

Accession	Description	mW	Probability (%)	Peptides
P21333	Filamin A	280583	100	1
P53396	ATP citrate synthase	120748	100	1
P45974	Ubiquitin carboxyl terminal hydrolase 5	95772	100	1
P78371	T complex protein 1 subunit beta	57452	100	2
P60842	Eukaryotic initiation factor 4A-I	45262	100	1
P22234	Multifunctional protein ADE2	47040	99.98	1
P62753	40S ribosomal protein S6	28663	100	1
P61313	60S ribosomal protein L15	17818	99.99	2
Q02543	60S ribosomal protein L18a	20748	100	3
P18085	ADP ribosylation factor 4	20497	100	1
Q9UNX3	60S ribosomal protein L26-like 1	15155	99.99	1

(Table 2-12) contd....

Accession	Description	mW	Probability (%)	Peptides
P60866	40S ribosomal protein S20	13364	100	1
P46776	60S ribosomal protein L27a	16551	100	2
P62263	40S ribosomal protein S14	16248	99.98	1
P61353	60S ribosomal protein L27	15787	100	2
P35080	Profilin 2	11896	100	1
P25398	40S ribosomal protein S12	14516	100	1
Q13200	26S proteasome non-ATPase regulatory subunit 2	100138	99.99	2
P17987	T-complex protein 1 subunit alpha	60305	99.99	2
P11413	Glucose-6-phosphate 1-dehydrogenase	59257	100	1
P67809	Nuclease sensitive element-binding protein 1	35924	99.99	1
P27635	60S ribosomal protein L10	24604	100	1
P84098	60S ribosomal protein L19	23451	99.99	1
P09211	Glutathione S-transferase P	23341	100	1
P14174	Macrophage migration inhibitory factor	12476	100	1

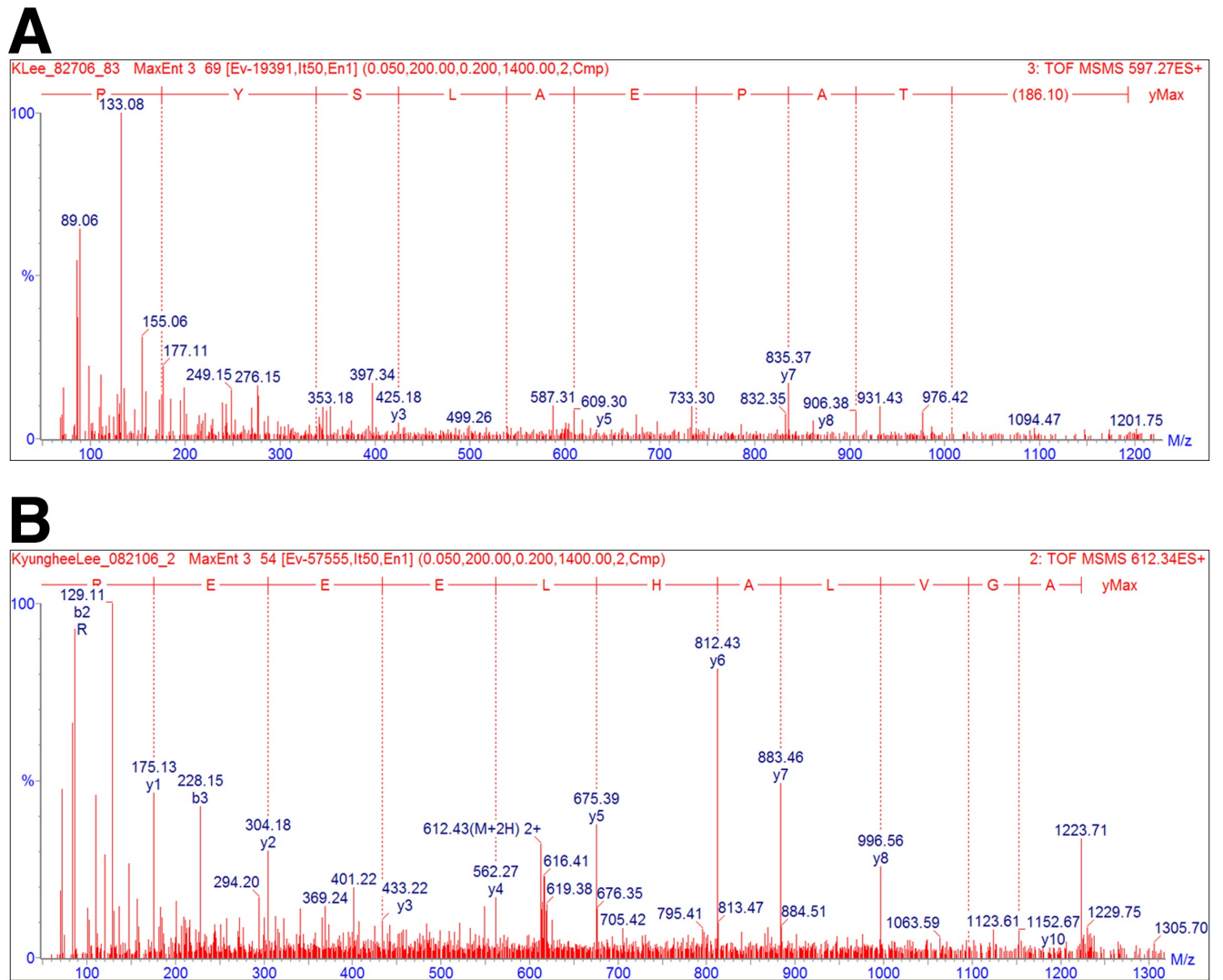


Fig. (1). MS/MS representative spectra of proteins identified on the basis of a single peptide. The sequence TAPEALS YSR was matched to amino acids 784-791 of Myosin-10 (A) and the sequence TPAQFD ADEL R to amino acids 772-782 of Ephrin type-A receptor 2 (B). Ions from “y” series are shown.