Supplemental table S1: List of proteins identified following MS analysis of the proteins removed of *N*-linked glycans and isolated from gels with an increased abundance in TIS Cal51 cells induced with paclitaxel versus control Cal51 cells.

Protein in increased abundance in TIS vs control WCL	Accession	Fold Change	Anova (P)
Plectin	Q15149	1.073855593	0.00691631
Ras GTPase-activating-like protein IQGAP1	P46940	1.087337643	0.0176342
Elongation factor1-gamma	P26641	1.138709703	0.0116496
Peptidyl-prolyl cis-transisomerase B	P23284	1.188383105	0.0436246
Dipeptidyl peptidase 3	Q9NY33	1.20163605	0.0215448
Transitional endoplasmic reticulum ATPase	P55072	1.214194884	0.0449691
Carbonic anhydrase 2	P00918	1.232852325	0.0158141
Clathrin heavy chain 1	Q00610	1.239621773	0.0463237
Protein transport protein Sec 31A	O94979	1.263565104	0.0284155
Aldo-ketoreductase family 1 member C1	Q04828	1.282092186	0.0324406
Spermidine synthase	P19623	1.298728621	0.0196232
Plastin-3	P13797	1.310756772	0.0161319
Actin-related protein 2/3 complex subunit 5	O15511	1.333483524	0.00476923
Actin-related protein 2/3 complex subunit 2	O15144	1.35416168	0.0411018
Proteasome subunit alpha type-5	P28066	1.358015551	0.0337657
Thioredoxin reductase 1, cytoplasmic	Q16881	1.383670089	0.0235472
Acyl-protein thioesterase 2	O95372	1.387415589	0.00233899
Isoaspartylpeptidase/L-asparaginase	Q7L266	1.408149002	0.0319602
Splicing factor U2AF 65kDa subunit	P26368	1.41489991	0.0256619
14-3-3 protein gamma	P61981	1.41509607	0.037455
Elongation factor 1-beta	P24534	1.424938841	0.0180731
Translationally-controlled tumor protein	P13693	1.43246511	0.0132132
Histone H2B type1-M	Q99879	1.460639347	0.0174452
Annexin A2	P07355	1.463375489	0.0192544
Actin-related protein 2/3complex subunit 4	P59998	1.469983539	0.0232561
Tubulin alpha-1Cchain	Q9BQE3	1.478977393	0.0326495
Actin-related protein 3	P61158	1.479695171	0.00266157
Sepiapterin reductase	P35270	1.48226151	0.0170323
Fattyacid-bindingprotein,heart	P05413	1.484523571	0.0250197
Inorganicpyrophosphatase	Q15181	1.486789083	0.0282846
Actin-related protein2/3complex subunit 1B	O15143	1.489264494	0.0324999
Serine/threonine-protein phosphatase PP1-alpha catalytic subunit	P62136	1.492674915	0.0316099
Vinculin	P18206	1.497234296	0.0312917
Exportin-5	Q9HAV4	1.505872892	0.000166722
GlutathioneS-transferase P	P09211	1.516977829	0.000262675
Calponin-2	Q99439	1.545956794	0.00696967
Eukaryotic translation initiation factor3 subunit M	Q7L2H7	1.569603322	0.0270553
Transgelin-2	P37802	1.575707772	0.0203683
Destrin	P60981	1.583261985	0.040249
Malignant T-cell-amplified sequence 1	Q9ULC4	1.599920257	0.0490309
L-lactatede hydrogenase A chain	P00338	1.601806634	0.0043216
Heat shock 70kDa protein 4 L	O95757	1.64832417	0.0477516
Thioredoxin domain-containing protein 12	O95881	1.694195074	0.00531778
ADP-ribosylation factor 1	P84077	1.694547409	0.0247425
Keratin,typeIcytoskeletal18	P05783	1.71832151	0.0162614
Branched-chain-amino-acidaminotransferase, cytosolic	P54687	1.722017734	0.0118771
CathepsinD	P07339	1.736882308	0.0217357
Tubulin alpha-1B chain	P68363	1.743033141	0.0257426
Coronin-1B	Q9BR76	1.761738748	0.00808281
UPF0364 protein C6 or f211	Q9H993	1.764305018	0.0167829
Calpain small subunit 1	P04632	1.823866331	0.00681522
Peroxiredoxin-6	P30041	1.833372578	0.0107537
Annexin A4	P09525	1.85214879	0.018776
Complement component 1Q subcomponent-binding protein, mitochondrial	Q07021	1.863868399	0.0104961
Beta-hexosaminidase subunit alpha	P06865	1.874492431	0.0260433
Folate receptor alpha	P15328	1.887923098	0.028967
Peripheral plasma membrane protein CASK	O14936	1.892115293	0.0157392
Mycbox-dependent-interacting protein1	O00499	1.922788393	0.0315622

Alpha-actinin-4	O43707	1.928928944	0.03205
Cyclin-dependentkinase4	P11802	1.93522324	0.0144299
Calpain-2catalyticsubunit	P17655	1.991423417	0.0107372
Proteasome activator complex subunit1	Q06323	2.054233245	0.0251917
Alpha-actinin-1	P12814	2.094346283	0.0191557
Vimentin	P08670	2.110229633	0.0351507
Actin-relatedprotein2/3complexsubunit3	O15145	2.119758631	0.0189534
Transgelin	Q01995	2.128445279	0.0424862
PDZ and LIM domain protein 1	O00151	2.146669363	0.00439796
Alkaline phosphatase, tissue-nonspecificisozyme	P05186	2.163399346	0.0131283
Protein SET	Q01105	2.174826029	0.0188962
HeterogeneousnuclearribonucleoproteinsC1/C2	P07910	2.232097428	0.0376893
Microtubule-actincross-linkingfactor1,isoforms1/2/3/5	Q9UPN3	2.24031252	0.0416664
Anterior gradient protein 2 homolog	O95994	2.297078245	0.0153857
Catalase	P04040	2.308570835	0.00107735
UDP-glucose4-epimerase	Q14376	2.405938892	0.0237869
Annexin A5	P08758	2.428389769	0.00139319
Atlastin-3	Q6DD88	2.459389097	0.0134023
Filamin-C	Q14315	2.464166944	0.0147979
Calponin-3	Q15417	2.927359643	0.0113673
ADP-ribosylation factor 4	P18085	3.239564764	0.013378
Prelamin-A/C	P02545	3.422854578	0.0207079
Epiplakin	P58107	3.447140257	0.00852213
Hexokinase-1	P19367	3.549461093	0.0270054
Protein S100-A11	P31949	4.005826676	0.0109002
NADPH: adrenodoxinoxidoreductase, mitochondrial	P22570	4.794897582	0.00208278

Supplemental table S2: Exclusive list of proteins identified following MS analysis of protein removed of *N*-linked glycans and isolated from gels in TIS Cal51 cells induced with paclitaxel.

Protein exclusive to TIS WCL	Accession	Protein concentration
Importin subunit alpha-3	O00629	27.7838
Lysosomal alpha-mannosidase	O00754	25.9091
Phosphatidylinositol 3,4,5-trisphosphate5-phosphatase 2	O15357	27.0365
Insulin-degrading enzyme	P14735	25.7223
Tyrosine-protein phosphatasenon-receptor type1	P18031	26.2216
Pentraxin-related protein PTX3	P26022	26.812
Protein S100-A4	P26447	29.0723
Alpha-2-macroglobulin receptor-associated protein	P30533	26.5049
Glutathione S-transferase theta-1	P30711	26.6165
Collagenalpha-1 (XVIII) chain	P39060	27.7162
Glutathione synthetase	P48637	27.0194
Inositolpolyphosphate1-phosphatase	P49441	27.5355
Activated RNA polymerase II transcriptional coactivator p15	P53999	27.9791
Sodium/potassium-transporting ATPase subunit beta-3	P54709	27.2732
Afadin	P55196	26.3993
U6 snRNA-associated Sm-like protein LSm3	P62310	26.5423
Enhancer of rudimentary homolog	P84090	25.8368
PutativeRNA-bindingprotein3	P98179	27.4426
Aminoacylase-1	Q03154	25.9981
Nuclear pore complex protein Nup160	Q12769	25.0705
Drebrin	Q16643	26.1134
Quinone oxidoreductase PIG3	Q53FA7	27.3153
Histone H3.2	Q71DI3	26.7038
Tubulinalpha-1A chain	Q71U36	28.7355
F-boxonly protein 22	Q8NEZ5	26.7492
Phosphatidylinositol 5-phosphate4-kinasetype-2 gamma	Q8TBX8	25.6483
ATP-dependent RNA helicase DDX54	Q8TDD1	24.8916
Far upstream element-binding protein 3	Q96I24	24.8971
Methylosome protein 50	Q9BQA1	26.7287
Polyadenylate-binding protein-interacting protein1	Q9H074	25.4693

ADP-sugar pyrophosphatase	Q9UKK9	26.696
Sortingnexin-5	Q9Y5X3	26.0117
SEC23-interacting protein	Q9Y6Y8	26.8484

Supplemental table S3: List of proteins identified following MS analysis of protein removed of *N*-linked glycans and isolated from gels with an increased abundance in control Cal51 cells versus TIS Cal51 cells induced with paclitaxel.

Protein in increased abundance in control vs TIS WCL	Accession	Fold Change	Anova (P)
Lon protease homolog ,mitochondrial	P36776	4.622905911	0.0052895
Asparagine synthetase [glutamine-hydrolyzing]	P08243	4.004161046	0.0114837
D-3-phosphoglyceratedehydrogenase	O43175	3.663950468	0.0116736
DNA mismatch repair protein Msh2	P43246	3.295506007	0.0210379
Serinehydroxymethyl transferase, mitochondrial	P34897	3.051249175	0.00394235
40S ribosomal protein S27	P42677	2.669741392	0.0060412
40S ribosomal protein S19	P39019	2.521531066	0.00905675
Host cell factor1	P51610	2.348598335	0.00636805
CAD protein	P27708	2.323178489	0.0406423
Myosin-10	P35580	2.202435852	0.00135217
Junction plakoglobin	P14923	2.152331056	0.0198744
Heterogeneous nuclear ribonucleoprotein M	P52272	2.150988781	0.0462444
NAD(P)H dehydrogenase [quinone] 1	P15559	2.11169284	0.0098003
Alanine—tRNA ligase, cytoplasmic	P49588	2.110814794	0.00456234
Insulin-like growth factor 2 mRNA-binding protein 1	Q9NZI8	2.103657739	0.0182223
60S ribosomal protein L13	P26373	2.081033227	0.0117179
60S ribosomal protein L10a	P62906	2.052383027	0.0174654
Heterogeneous nuclear ribonucleoprotein U-like protein 1	Q9BUJ2	2.039336717	0.00021545
Testin	Q9UGI8	2.023285628	0.00262811
60S ribosomal protein L27a	P46776	2.019782577	0.0397881
Serine—tRNA ligase, cytoplasmic	P49591	1.989629771	0.0241661
Glycine—tRNA ligase	P41250	1.977393507	0.00778583
40S ribosomal protein S20	P60866	1.964687693	0.00456691
Sulfatase-modifying factor 2	Q8NBJ7	1.9365651	0.00359927
60S ribosomal protein L19	P84098	1.920657135	0.0299267
40S ribosomal protein S9	P46781	1.907786859	0.0113836
Tyrosine—tRNA ligase, cytoplasmic	P54577	1.890542131	0.0130271
Histone H1x	Q92522	1.890018034	0.0318238
Band4.1-like protein 2	O43491	1.885438379	0.0227171
40S ribosomal protein S11	P62280	1.878654803	0.0345105
Dihydropyrimidinase-related protein 2	Q16555	1.874622365	0.0134631
Actin, alpha cardiac muscle 1	P68032	1.870987604	0.0392564
UDP-glucose 6-dehydrogenase	O60701	1.870598583	0.0386946
60S ribosomal protein L38	P63173	1.856518897	0.00617788
Fragile X mental retardation syndrome-related protein 1	P51114	1.854075509	0.0173457
3-ketoacyl-CoA thiolase, mitochondrial	P42765	1.849711153	0.0170152
60S ribosomal protein L11	P62913	1.844973379	0.04855
40S ribosomal protein S17-like	P0CW22	1.841779052	0.0273836
Glutamate—cysteineligase regulatory subunit	P48507	1.83795316	0.0127942
60S ribosomal protein L10	P27635	1.835915934	0.03375
60S ribosomal protein L8	P62917	1.833880967	0.0182984
60S ribosomal protein L18	Q07020	1.831086569	0.0122974
40S ribosomal protein S14	P62263	1.82918374	0.00880583
60S ribosomal protein L7a	P62424	1.813654941	0.0306797
60S ribosomal protein L36	Q9Y3U8	1.813277841	0.022658
40S ribosomal protein S18	P62269	1.802625869	0.0182679
Elongation factor Tu, mitochondrial	P49411	1.77620734	0.0460271
C-1-tetrahydrofolatesynthase,cytoplasmic	P11586	1.771166696	0.00413635
40S ribosomal protein S8	P62241	1.745451173	0.0192424
Pyridoxal kinase	O00764	1.744120841	0.0391168
40S ribosomal protein S13	P62277	1.732793817	0.0409077
Aldehydedehydrogenase, mitochondrial	P05091	1.730753181	0.0221468

Transcription elongation factor A protein 1	P23193	1.725602295	0.0171544
Fascin	Q16658	1.72273405	0.0380168
60S ribosomal protein L13a	P40429	1.720228247	0.013239
60S ribosomal protein L5	P46777	1.719393789	0.0109656
60SribosomalproteinL32	P62910	1.710359978	0.0236943
Delta-1-pyrroline-5-carboxylate synthase	P54886	1.706688777	0.00468362
60S ribosomal protein L7	P18124	1.705624421	0.0168761
60S ribosomal protein L23	P62829	1.690675755	0.031081
Nuclease-sensitive element-binding protein1	P67809	1.683308962	0.017423
UTP--glucose-1-phosphateuridylyltransferase	Q16851	1.678648303	0.0350229
Trifunctional purine biosynthetic protein adenosine-3	P22102	1.655996932	0.00529837
Phosphoserine aminotransferase	Q9Y617	1.648552692	0.0247623
Mitotic checkpoint protein BUB3	O43684	1.634783968	0.00275665
Catenin alpha-1	P35221	1.625518528	0.0324577
Tight junction protein ZO-2	Q9UDY2	1.620456171	0.00920646
40S ribosomal protein S4, Xisoform	P62701	1.619108874	0.0469786
E3 ubiquitin-protein ligase HUWE1	Q7Z6Z7	1.613730878	0.0355833
MOB kinase activator 1A	Q9H8S9	1.610713609	0.00342027
Leucine-rich PPR motif-containing protein, mitochondrial	P42704	1.605363498	0.0287315
40S ribosomal protein S2	P15880	1.597593092	0.0344085
Tryptophan—tRNA ligase, cytoplasmic	P23381	1.582055268	0.00888513
Eukaryotic translation initiation factor3 subunit D	O15371	1.58161669	0.0158098
Hypoxia up-regulated protein 1	Q9Y4L1	1.574179437	0.00565032
40S ribosomal protein S3a	P61247	1.570365083	0.0245686
Methionine—tRNA ligase, cytoplasmic	P56192	1.563956082	0.0048253
Eukaryotic translation initiation factor 5	P55010	1.562547449	0.0082749
ATP-dependent6-phosphofructokinase, muscle type	P08237	1.558437178	0.00502924
Insulin-like growth factor 2 mRNA-binding protein 2	Q9Y6M1	1.546814292	0.0484693
Eukaryotic translation initiation factor 3 subunit I	Q13347	1.537301353	0.0271593
Platelet-activating factor acetyl hydrolase IB subunit gamma	Q15102	1.536129666	0.0027598
NEDD8-conjugating enzyme Ubc12	P61081	1.527423367	0.0229583
Poly[ADP-ribose]polymerase 1	P09874	1.510786712	0.0218829
40S ribosomal protein S3	P23396	1.508170985	0.0385997
Nicotin amidephosphoribosyltransferase	P43490	1.493917004	0.00618452
Enoyl-CoA delta isomerase1, mitochondrial	P42126	1.487923135	0.0403874
Protein RCC2	Q9P258	1.452461578	0.0096115
Eukaryotic translation initiation factor 3 subunit C	Q99613	1.452260238	0.016856
Septin-11	Q9NVA2	1.447837812	0.00527993
Peptidyl-prolyl cis-transisomerase FKBP4	Q02790	1.444229483	0.00683901
Asparagine—tRNA ligase, cytoplasmic	O43776	1.442528678	0.0307068
Inosine-5'-monophosphatedehydrogenase 2	P12268	1.439232829	0.00906579
Thimetoligopeptidase	P52888	1.436840579	0.00249547
Cell cycle and apoptosis regulator protein 2	Q8N163	1.430877336	0.00190013
Putative adenosyl homocysteinase 2	O43865	1.419320102	0.0442604
GMP synthase[glutamine-hydrolyzing]	P49915	1.41460572	0.0358792
Protein disulfide-isomerase A6	Q15084	1.411960765	0.00141716
Signal recognition particle subunit SRP 68	Q9UHB9	1.411862899	0.00384378
Isoleucine—tRNA ligase, cytoplasmic	P41252	1.411080213	0.0145605
40S ribosomal protein S21	P63220	1.408832406	0.00870004
Eukaryotic initiation factor 4A-III	P38919	1.406783189	0.00877881
Stress-induced-phosphoprotein 1	P31948	1.406783189	0.0217378
Ran-specific GTPase-activating protein	P43487	1.402499251	0.0229919
Stress-70 protein, mitochondrial	P38646	1.401624599	0.0137575
T-complex protein 1 subunit epsilon	P48643	1.398228358	0.0148333
Hsp90 co-chaperone Cdc37	Q16543	1.392521884	0.0217176
Mitogen-activated protein kinase1	P28482	1.392328853	0.0103514
Heterogeneous nuclear ribonucleoprotein H	P31943	1.388666341	0.0202737
Bifunctional glutamate/proline—tRNA ligase	P07814	1.384917464	0.00477526
Ras-related protein Rab-14	P61106	1.384917464	0.0495037
Elongation factor1-delta	P29692	1.375827884	0.0101244
Cysteine and histidine-richdomain-containing protein 1	Q9UHD1	1.37449342	0.0477458
5'-3'exoribonuclease2	Q9H0D6	1.363864198	0.00326863
S-adenosylmethionine synthase isoform type-2	P31153	1.36074808	0.0160538
Cytosolaminopeptidase	P28838	1.359051381	0.026845
26S proteasome non-ATP aseregulatory subunit 5	Q16401	1.358015551	0.0232467
Fatty acid synthase	P49327	1.354818883	0.0350474
CCR4-NOT transcription complex subunit 1	A5YKK6	1.353223372	0.0208261

Nucleoprotein TPR	P12270	1.351255041	0.0254364
Interleukin enhancer-binding factor 3	Q12906	1.347887417	0.00014291
Bifunctional purine biosynthesis protein PURH	P31939	1.330713504	0.0135526
T-complex protein 1 subunit eta	Q99832	1.324639698	0.033538
26S protease regulatory subunit 4	P62191	1.319599375	0.0268789
Fumarate hydratase ,mitochondrial	P07954	1.319416453	0.0334417
Eukaryotic translation initiation factor 3 subunit A	Q14152	1.318045341	0.00460368
Isocitratedehydrogenase[NADP] cytoplasmic	O75874	1.317405976	0.0285484
T-complex protein 1 subunit zeta	P40227	1.315216223	0.0164191
Cytoplasmic dynein 1 heavy chain 1	Q14204	1.314213803	0.0197597
26 Sprotease regulatory subunit 8	P62195	1.311029365	0.0407401
Acetyl-CoA acetyl transferase, mitochondrial	P24752	1.309757751	0.0192978
High mobility group protein B1	P09429	1.306946423	0.000743684
Protein disulfide-isomerase A3	P30101	1.299178804	0.0209402
Neutra lalpha-glucosidase AB	Q14697	1.275974944	0.0117857
26S protease regulatory subunit 6A	P17980	1.275179198	0.0362788
T-complex protein 1 subunit gamma	P49368	1.27491406	0.0415369
60kDaSS-A/Roribonucleoprotein	P10155	1.26654646	0.0352686
Heat shock protein HSP90-alpha	P07900	1.266019828	0.0358716
Probable ATP-dependent RNA helicase DDX17	Q92841	1.264003098	0.0327868
NAD-dependent malic enzyme, mitochondrial	P23368	1.262777097	0.00187803
Talin-1	Q9Y490	1.255620075	0.0128741
78kDa glucose-regulated protein	P11021	1.255620075	0.0423882
SUMO-activating enzyme subunit 2	Q9UBT2	1.255010992	0.0419178
Leucine—tRNA ligase, cytoplasmic,	Q9P2J5	1.251796459	0.0367734
Leucine-rich repeat-containing protein 47	Q8N1G4	1.248590159	0.0205633
Protein disulfide-isomerase A4	P13667	1.241255405	0.00378736
Far upstream element-binding protein 2	Q92945	1.2397077	0.0116277
Squamous cell carcinoma antigen recognized by T-cells 3	Q15020	1.230547203	0.00126015
Septin-2	Q15019	1.224506133	0.0293687
Valine—tRNA ligase	P26640	1.224251531	0.0151022
Eukaryotic translation initiation factor 3 subunit J	O75822	1.216891044	0.0351076
Eukaryotic translation initiation factor 2 subunit 1	P05198	1.215036792	0.0146055
Pyruvate dehydrogenase E1 component subunit beta, mitochondrial	P11177	1.200054561	0.0398701
Far upstream element-binding protein 1	Q96AE4	1.178947929	0.0349754
GTP-binding nuclear protein Ran	P62826	1.174950518	0.00871869
Nuclear protein localization protein 4 homolog	Q8TAT6	1.172834949	0.018506
26S proteasome non-ATPase regulatory subunit 11	O00231	1.172022284	0.0164664
Endoplasmin	P14625	1.163684528	0.0344153
Glucosidase 2 subunit beta	P14314	1.152286925	0.0454032
Glutamine synthetase	P15104	1.102057883	0.0287479
26S proteasome non-ATPase regulatory subunit 3	O43242	1.080575592	0.0279998

Supplemental table S4: Exclusive list of proteins identified following MS analysis of protein removed of *N*-linked glycans and isolated from gels in control Cal51 cells.

Protein exclusive to TIS cells	Accession	Protein concentration
CLIP-associating protein 2	O75122	23.8565
Tubulin-specific chaperone A	O75347	27.0043
Eukaryotic translation initiation factor 3 subunit G	O75821	27.6313
Pre-mRNA-processing factor 6	O94906	25.5184
Structural maintenance of chromosomes protein 2	O95347	27.4679
Myosinlight chain1/3,skeletal muscle isoform	P05976	26.0385
Thymidylate kinase	P23919	27.6131
ATP-binding cassette sub-family D member 3	P28288	26.7784
ADP-ribosylation factor-like protein 3	P36405	27.8775
Guanine nucleotide-binding protein-like1	P36915	25.9615
Replication factor C subunit3	P40938	25.3948
Lamina-associated polypeptide 2, isoform alpha	P42166	27.1287
RNA-binding protein 25	P49756	26.3619

Cleavage stimulation factor subunit3	Q12996	26.6228
Rho-associated protein kinase 1	Q13464	21.5228
Mannosyl-oligosaccharideglucosidase	Q13724	26.4698
GTP-binding protein Rheb	Q15382	25.703
Neutral amino acid transporter B(0)	Q15758	25.976
Putative heat shock protein HSP90-beta2	Q58FF8	29.1123
Enhancer of mRNA-decapping protein4	Q6P2E9	27.7794
60S ribosomal proteinL22-like 1	Q6P5R6	26.5766
WD repeat-containing protein 82	Q6UXN9	25.6061
Plakophilin-2	Q99959	26.4928
DCN1-like protein 5	Q9BTE7	25.0183
Gephyrin	Q9NQX3	25.6018
RNA-binding protein 12	Q9NTZ6	26.124

Supplemental table S5: List of proteins identified following MS analysis of protein removed of *N*-linked glycans and isolated from gels with an increased abundance in TIS Cal51 membrane induced with paclitaxel versus control Cal51 membrane.

Protein in increased abundance in TIS vs control membrane	Accession	Fold Change	Anova (P)
Dna J homolog subfamily A member 2	O60884	1.123266302	0.0486451
Phosphoglycerate kinase 1	P00558	1.221369734	0.0209882
14-3-3 protein epsilon	P62258	1.248070993	0.0277233
Coatomer subunit alpha	P53621	1.255097986	0.04875
Plastin-3	P13797	1.333668397	0.0181944
ADP-ribosylation factor 1	P84077	1.409711556	0.0475795
All-trans-retinol13,14-reductase	Q6NUM9	1.433557726	0.0387389
Alpha-actinin-4	O43707	1.491744027	0.0095479
Ras GTPase-activating-like protein IQGAP1	P46940	1.504308018	0.0317127
Cancer-related nucleoside-triphosphatase	Q9BSD7	1.537834233	0.0145127
Protein S100-A10	P60903	1.56265576	0.0387896
Spectrin alpha chain, non-erythrocytic1	Q13813	1.696192606	0.00474058
Cofilin-1	P23528	1.719155447	0.0430788
Peroxiredoxin-1	Q06830	1.765650747	0.0263982
Carbonic anhydrase 2	P00918	1.824498544	0.00937745
Fructose-bisphosphatealdolase A	P04075	1.851635336	0.0274949
Triosephosphateisomerase	P60174	1.88334852	0.0193571
GTP-binding nuclear protein Ran	P62826	1.960198831	0.0204177
Filamin-B	O75369	2.114036081	0.0108073
Tubulin alpha-1B chain	P68363	2.136278887	0.0222819
Tubulin beta chain	P07437	2.179504224	0.0106702
Basement membrane-specific heparan sulfate proteoglycan core protein	P98160	2.368379054	0.0297909
Tubulin beta-4B chain	P68371	2.478384454	0.0181178
Tubulin alpha-1C chain	Q9BQE3	2.493029579	0.0493878
Folate receptor alpha	P15328	2.525554194	0.0484877
Collagen alpha-1(XVIII) chain	P39060	2.607920697	0.00590333
Neuroblast differentiation-associated protein AHNAK	Q09666	3.089342876	0.0106038
Galectin-3	P17931	3.452640203	0.0393726
Tubulin beta-6 chain	Q9BUF5	3.566230616	0.00262672
CD44 antigen	P16070	3.82669787	0.00528984
Lactadherin	Q08431	10.1113239	0.00713648

Supplemental table S6: List of proteins identified following MS analysis of protein removed of *N*-linked glycans and isolated from gels with an increased abundance in control Cal51 membrane versus TIS Cal51 membrane induced with paclitaxel.

Protein in increased abundance in control vs TIS membrane	Accession	Fold Change	Anova (P)
Syntaxin-binding protein 2	Q15833	7.335015426	0.00638257
Lamina-associated polypeptide 2, isoform alpha	P42166	6.843811386	0.0125713
Cell cycle and apoptosis regulator protein 2	Q8N163	5.531228721	0.00846105
Sec1 family domain-containing protein 1	Q8WVM8	4.957456111	0.00502015
40S ribosomal protein SA	P08865	3.502536293	0.0325045
Phenylalanine—tRNAligasealpha subunit	Q9Y285	3.266849516	0.0458785
Alpha-mannosidase 2	Q16706	2.713772909	0.00820896
D-3-phosphoglyceratedehydrogenase	O43175	2.59781735	0.00422066
Stomatin-like protein 2, mitochondrial	Q9UJZ1	2.595297635	0.0276735
Serinehydroxymethyl transferase, mitochondrial	P34897	2.466901309	0.0217093
UBX domain-containing protein 4	Q92575	2.246844061	0.0228611
Vesicle-associated membrane protein-associated protein A	Q9P0L0	2.216371929	0.0192124
Prohibitin-2	Q99623	2.198013123	0.025769
Magnesium transporter protein 1	Q9H0U3	2.193903394	0.0174148
Fatty aldehyde dehydrogenase	P51648	2.181771479	0.00119229
ATP synthase subunit beta, mitochondrial	P06576	2.146520573	0.0260296
Acyl-CoA: lysophosphatidyl glycerolacyltransferase 1	Q92604	2.060936422	0.0445665
Lysosomal alpha-mannosidase	O00754	1.976571303	0.0393853
Protein ERGIC-53	P49257	1.774607536	0.0292355
Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase 3	Q9P035	1.74896328	0.00432687
Retinol dehydrogenase 11	Q8TC12	1.722137099	0.00509847
ATP synthase subunit f, mitochondrial	P56134	1.669365661	0.0498658
Glucosidexylosyl transferase 1	Q4G148	1.644672122	0.0395206
N-acetylgalactosaminyltransferase 7	Q86SF2	1.639663764	0.0459031
Ras-related protein Rab-13	P51153	1.628224915	0.034008
Poly [ADP-ribose] polymerase 1	P09874	1.610936917	0.0402969
Calnexin	P27824	1.601917667	0.0156759
Protein transport protein Sec 61 subunit beta	P60468	1.591403856	0.0163268
Choline transporter-like protein 2	Q8IWA5	1.572761597	0.0159348
Cytoskeleton-associated protein 4	Q07065	1.53378897	0.0143568
DNA-dependent protein kinase catalytic subunit	P78527	1.491020404	0.00612387
Golgi integral membrane protein 4	O00461	1.364336959	0.0365386
Cytochrome b5 type B	O43169	1.353692445	0.0184173
Malectin	Q14165	1.334593146	0.0494833
2',3'-cyclic-nucleotide3'-phosphodiesterase	P09543	1.248330549	0.0179924
CAD protein	P27708	1.198142912	0.0217336

Supplemental table S7: List of proteins identified following MS analysis of protein removed of *N*-linked glycans and isolated from gels with an increased abundance in TIS Cal51 cytoplasm induced with paclitaxel versus control Cal51 cytoplasm.

Protein in increased abundance in TIS vs control cytoplasm	Accession	Fold Change	Anova (P)
Alpha-enolase	P06733	1.152686347	0.0322962
Ras-related protein Rab-1B	Q9H0U4	1.187888973	0.0141122
Protein flightless-1 homolog	Q13045	1.22901285	0.0205875
Heat shock protein 105 kDa	Q92598	1.278719651	0.035767
GTP-binding nuclear protein Ran	P62826	1.301973424	0.0438967
Cytosolic non-specific dipeptidase	Q96KP4	1.303056825	0.00236176
Glutamine--fructose-6-phosphateaminotransferase [isomerizing] 1	Q06210	1.355570363	0.034466
Actin, cytoplasmic 1	P60709	1.367935304	0.00660219
14-3-3 protein zeta/delta	P63104	1.376686438	0.00302698
Glycogen[starch] synthase, muscle	P13807	1.377927517	0.00703283
Pyruvate kinase PKM	P14618	1.398228358	0.0345547

H/ACA ribonucleoprotein complex subunit 4	O60832	1.411275843	0.0289551
14-3-3 protein gamma	P61981	1.42622342	0.0379356
Glyceraldehyde-3-phosphatedehydrogenase	P04406	1.444730102	0.0489247
Casein kinase II subunit alpha	P68400	1.449243485	0.00829481
Kinectin	Q86UP2	1.505977275	0.0418425
Cofilin-1	P23528	1.52414483	0.0141418
Peroxiredoxin-2	P32119	1.538793883	0.00282556
Vinculin	P18206	1.56005836	0.00626669
Trifunctional enzyme subunit alpha, mitochondrial	P40939	1.567537547	0.00255192
Ubiquitin-like modifier-activating enzyme 1	P22314	1.571453954	0.000792211
Ras GTPase-activating-like protein IQGAP1	P46940	1.579754089	0.000328649
Phosphoglyceratekinase 1	P00558	1.594605997	0.0443561
Heat shock 70kDa protein 4	P34932	1.60358408	0.0246298
cAMP-dependent protein kinase type I-alpha regulatory subunit	P10644	1.604139936	0.0161244
WD repeat-containing protein1	O75083	1.62788637	0.040552
Transaldolase	P37837	1.631274987	0.0256709
Ras-related protein Rab-5C	P51148	1.632066678	0.0342907
Actin-related protein 2/3 complex subunit 3	O15145	1.684359393	0.0139526
Actin-related protein 2/3 complex subunit 4	P59998	1.685644142	0.00448833
Catalase	P04040	1.724526144	0.0336308
Actin-related protein 3	P61158	1.729673818	0.039841
Spectrin alpha chain, non-erythrocytic 1	Q13813	1.734957112	0.0362142
Actin-related protein 2/3 complex subunit 1B	O15143	1.73796617	0.00082506
Integrin beta-1	P05556	1.757469924	0.00464684
Beta-galactosidase	P16278	1.760884155	0.00748672
Fructose-bisphosphatealdolase A	P04075	1.763204731	0.0126554
Peroxiredoxin-6	P30041	1.800877439	0.0193933
Tubulin beta chain	P07437	1.818060236	0.000231559
Adenine phosphoribosyl transferase	P07741	1.833880967	0.0345846
Ribosome-binding protein 1	Q9P2E9	1.839227573	0.00145833
Programmed cell death protein 6	O75340	1.857548655	0.0120928
Peroxiredoxin-1	Q06830	1.858836656	0.0137222
Ras-related C3 botulinum toxin substrate 1	P63000	1.876572463	0.00917793
Cathepsin D	P07339	1.886222674	0.0178872
Sodium/potassium-transporting ATPase subunit talpha-1	P05023	1.90065937	0.0170441
Plastin-3	P13797	1.986460354	0.0166885
Glutamatedehydrogenase1, mitochondrial	P00367	2.002496887	0.00320207
Tubulin alpha-1B chain	P68363	2.007221738	0.0178033
Heterogeneous nuclear ribonucleoproteins C1/C2	P07910	2.077718207	0.0488339
Keratin, type I cytoskeletal 18	P05783	2.086955734	0.0249064
Branched-chain-amino-acid aminotransferase, cytosolic	P54687	2.095362713	0.00147721
Tubulin beta-4B chain	P68371	2.143249787	0.00128991
Collagen alpha-1 (XVIII) chain	P39060	2.15412206	0.0489654
Sodium/potassium-transporting ATPase subunit beta-1	P05026	2.180561983	0.00760239
Histone H2A type2-C	Q16777	2.271428669	0.0412996
Glutathione S-transferase P	P09211	2.285326033	0.00191535
Filamin-A	P21333	2.290083179	0.00421248
Glycogenin-1	P46976	2.306331671	0.00674984
Basement membrane-specific heparan sulfate proteoglycan core protein	P98160	2.346157718	0.0308949
Alpha-actinin-4	O43707	2.372157827	0.00347359
Solute carrier family 12 member 2	P55011	2.381383546	0.0264066
Annexin A2	P07355	2.387333304	0.00478579
Histone H4	P62805	2.453769955	0.0112907
Annexin A11	P50995	2.717537606	0.0040972
Annexin A1	P04083	2.728673918	0.00331098
Lysosomal protective protein	P10619	2.749367956	0.00552015
Myoferlin	Q9NZM1	2.821573634	0.00566591
ProteinS100-A10	P60903	2.901904416	0.00461638
Integrin alpha-V	P06756	2.964523021	0.00647628
Alpha-actinin-1	P12814	3.114714652	0.0119491
Aldo-ketoreductase family 1 member C1	Q04828	3.254193413	0.0199088
NADPH: adrenodoxinoxidoreductase, mitochondrial	P22570	3.264585893	0.0192444
Tubulin beta-6 chain	Q9BUF5	3.314979618	0.000232293
Calpain-2 catalytic subunit	P17655	3.54872308	0.0144434
Tubulin beta-8 chain	Q3ZCM7	3.813987195	0.0188865
Tubulin alpha-1C chain	Q9BQE3	4.046571256	0.0184629
Annexin A4	P09525	4.165818546	0.000756896

Annexin A5	P08758	4.281451551	0.0459984
Prelamin-A/C	P02545	4.325599216	0.0208535
Annexin A7	P20073	6.113082342	0.00358695
V-type proton ATPase 116kDa subunit a isoform 1	Q93050	15.48071284	0.00761862

Supplemental table S8: List of proteins identified following MS analysis of protein removed of *N*-linked glycans and isolated from gels with an increased abundance in control Cal51 cytoplasm versus TIS Cal51 cytoplasm induced with paclitaxel.

Protein in increased abundance in control vs TIS cytoplasm	Accession	Fold Change	Anova (P)
DNA replication licensing factor MCM7	P33993	13.30872076	4.75E-05
5'-3'exoribonuclease 2	Q9H0D6	8.090898927	0.0233391
40S ribosomal protein SA	P08865	5.479711731	0.000349333
Mannosyl-oligosaccharideglucosidase	Q13724	4.584930929	0.00546559
DNA replication licensing factor MCM2	P49736	4.39694047	0.0208697
Aspartyl/asparaginyl beta-hydroxylase	Q12797	4.36868777	0.00713585
Probable ATP-dependent RNA helicase DDX46	Q7L014	4.309438784	0.036347
Dolichyl-diphosphooligosaccharide—protein glycosyltransferase 48kDa subunit	P39656	4.286796702	0.00687461
Reticulocalbin-1	Q15293	3.517620877	0.03203
THO complex subunit 2	Q8NI27	3.442126218	0.0462679
Guaninenucleotide-binding protein subunit beta-2-like 1	P63244	3.428315777	0.00136776
Asparagine synthetase [glutamine-hydrolyzing]	P08243	3.40487067	0.0416942
Vesicle-fusing ATPase	P46459	3.319808446	0.0139675
40S ribosomal protein S20	P60866	3.097920239	0.00308868
40S ribosomal protein S19	P39019	3.016969266	0.0127458
CAD protein	P27708	2.997375852	0.000560319
40S ribosomal protein S7	P62081	2.946903871	0.00153628
Heterogeneous nuclear ribonucleoprotein M	P52272	2.875275107	0.014004
Poly[ADP-ribose]polymerase 1	P09874	2.833921901	0.0052012
Calumenin	O43852	2.780414551	0.0280173
RNA-binding protein 4	Q9BWF3	2.612987096	0.0140376
Serine hydroxymethyltransferase ,mitochondrial	P34897	2.464337753	0.0312635
DNA-(apurinicorapyrimidinicsite)lyase	P27695	2.412618827	2.37E-05
60S ribosomal protein L11	P62913	2.389154248	0.00214366
Inosine-5'-monophosphatedehydrogenase 2	P12268	2.388657489	0.0255239
40S ribosomal protein S5	P46782	2.352019465	0.00755442
Glycine—tRNA ligase	P41250	2.315782884	0.00457727
60S ribosomal protein L38	P63173	2.312093915	0.00161516
Insulin-likegrowthfactor2mRNA-binding protein 1	Q9NZI8	2.294850228	0.00350433
Fragile X mental retardation syndrome-related protein 1	P51114	2.280262635	0.00313557
Polypyrimidine tract-binding protein 1	P26599	2.277261552	0.00397589
60S ribosomal protein L5	P46777	2.270326832	0.00655095
Transmembrane emp 24 domain-containing protein 2	Q15363	2.256207881	0.0309696
DNA topoisomerase 1	P11387	2.210235352	0.0271695
Eukaryotic translation initiation factor 4 gamma 1	Q04637	2.209163199	0.0307496
Leucine-rich PPR motif-containing protein, mitochondrial	P42704	2.207632455	0.00119416
Very-long-chain(3R)-3-hydroxyacyl-CoA dehydratase3	Q9P035	2.179655301	0.0103334
Histone H1x	Q92522	2.131102523	0.042074
40S ribosomal protein S12	P25398	2.127707744	0.00113751
40S ribosomal protein S10	P46783	2.121669588	0.00706119
40S ribosoma lprotein S3	P23396	2.059936692	0.0192674
Dihydropyrimidinase-related protein 2	Q16555	2.04004362	0.0255776
60S ribosomal protein L10	P27635	2.037782393	0.00137166
60S ribosomal protein L9	P32969	2.031013741	0.0117082
40S ribosomal protein S17-like	P0CW22	2.025952009	0.00179517
60S ribosomal protein L26	P61254	2.013352803	0.000663691
Lysine—tRNA ligase	Q15046	2.00583092	0.0261255
40S ribosomal protein S18	P62269	2.002774511	0.0348176
40S ribosomal protein S15a	P62244	1.994047809	0.0266586
Heterogeneous nuclear ribonucleoprotein A0	Q13151	1.95504254	0.0056481
60S ribosoma lprotein L36a-like	Q969Q0	1.929196369	0.0111058

60S ribosomal protein L28	P46779	1.892246449	0.0109185
40S ribosomal protein S9	P46781	1.874102682	0.0170957
Putative helicase MOV-10	Q9HCE1	1.86270602	0.00188765
Heterogeneous nuclear ribonucleoprotein F	P52597	1.860641358	0.000724003
Proliferation-associated protein 2G4	Q9UQ80	1.857548655	0.00501131
Utrophin	P46939	1.84983937	0.0487897
Golgi apparatus protein 1	Q92896	1.836679629	0.0301063
Matrin-3	P43243	1.826523101	0.00327426
60S ribosomal protein L21	P46778	1.82096097	0.0108355
Histone deacetylase 1	Q13547	1.818816504	0.00787711
UDP-glucose:glycoprotein glucosyltransferase 1	Q9NYU2	1.800752616	0.0274089
60S ribosomal protein L27	P61353	1.787818152	0.00631069
Polyadenylate-binding protein 4	Q13310	1.780151467	0.00745366
Nucleolar protein 58	Q9Y2X3	1.779657972	0.0304167
40S ribosomal protein S13	P62277	1.744362644	0.0137521
40S ribosomal protein S14	P62263	1.741583929	4.57E-06
La-related protein 1	Q6PKG0	1.740135923	0.0126953
60S ribosomal protein L13a	P40429	1.739653522	0.00692437
Endoplasmic reticulum-Golgi intermediate compartment protein 1	Q969X5	1.739412371	0.011792
Cleavage and polyadenylation specificity factor subunit 5	O43809	1.736882308	0.00847464
Insulin-like growth factor 2 mRNA-binding protein 3	O00425	1.730993131	0.0095392
Guaninenucleotide-binding protein-like 3	Q9BVP2	1.723211759	0.00580471
60Sribosomal protein L17	P18621	1.721182408	0.014503
ATP-dependent RNA helicase DDX3X	O00571	1.716297918	0.0114676
60S ribosomal protein L35a	P18077	1.706925391	0.0453703
Nucleolar RNA helicase 2	Q9NR30	1.705151587	0.0111618
40S ribosomal protein S11	P62280	1.703261562	0.0478496
60S ribosomal protein L10a	P62906	1.697015803	0.000171814
60S ribosomal protein L34	P49207	1.688216582	0.0352586
40S ribosomal protein S24	P62847	1.675858104	0.0179383
60S ribosomal protein L15	P61313	1.672376875	0.0030108
60S ribosomal protein L27a	P46776	1.67098641	0.0347245
Chitinase domain-containing protein 1	Q9BWS9	1.670638974	0.0226068
Staphylococcal nuclease domain-containing protein 1	Q7KZF4	1.663820733	0.00817612
60S ribosomal protein L14	P50914	1.66370541	0.0306143
60S ribosomal protein L13	P26373	1.656341323	0.00029033
40S ribosomal protein S4, Xisoform	P62701	1.653702823	0.029622
Insulin-like growth factor 2 mRNA-binding protein 2	Q9Y6M1	1.648209921	0.0178272
60S acidic ribosomal protein P0	P05388	1.647981446	0.00442341
60S ribosomal protein L6	Q02878	1.646040691	0.0048891
Probable ATP-dependent RNA helicase DDX17	Q92841	1.617538443	0.00942442
60S ribosomal protein L18	Q07020	1.604807218	0.00685171
60S acidic ribosomal protein P2	P05387	1.589970502	0.0309478
Regulator of nonsense transcripts 1	Q92900	1.587107665	0.0125673
60S ribosomal proteinL12	P30050	1.575161768	0.00965653
60S ribosomal proteinL24	P83731	1.561681229	0.0151966
60S ribosomal proteinL30	P62888	1.56135652	0.0237248
60S ribosomal proteinL4	P36578	1.547994129	0.00242294
60S ribosomal protein L7	P18124	1.53826067	0.0389914
60S ribosomal protein L23	P62829	1.536981713	0.0408163
40S ribosomal protein S6	P62753	1.53581027	0.0217321
40S ribosomal protein S3a	P61247	1.533363772	0.035367
60S ribosomal protein L36	Q9Y3U8	1.531345693	0.0208536
60S ribosomal protein L35	P42766	1.520451714	0.00286904
Asparagine—tRNA ligase, cytoplasmic	O43776	1.511519928	0.00310887
40S ribosomalprotein S2	P15880	1.500142968	0.0469543
40S ribosomalprotein S15	P62841	1.496922987	0.0267261
Translocon-associated protein subunit delta	P51571	1.496300563	0.0145055
Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15	O43143	1.492054258	0.0401596
60S ribosomal protein L3	P39023	1.485655895	0.0259323
ELAV-like protein 1	Q15717	1.479284969	0.015938
Ras GTPase-activating protein-binding protein 2	Q9UN86	1.477850159	0.00472476
40S ribosomal protein S16	P62249	1.448540478	0.0455013
DNA-dependent protein kinase catalytic subunit	P78527	1.430183238	0.0243941
Importin subunit alpha-1	P52292	1.411471501	0.0124977
Pyruvatedehydrogenase E1 component subunit beta, mitochondrial	P11177	1.4080514	0.0135877
60S ribosomal protein L18a	Q02543	1.407953805	0.0334935

Heterogeneous nuclear ribonucleoprotein H	P31943	1.406880703	0.020058
Dolichol-phosphatemannosyltransferase subunit 1	O60762	1.384533537	0.0138309
60S ribosomal protein L7a	P62424	1.381370194	0.0132649
Protein FAM98B	Q52LJ0	1.363202607	0.0423024
Polyadenylate-binding protein 1	P11940	1.359239798	0.000899857
40S ribosomal protein S8	P62241	1.309485423	0.0219577
Cysteine—tRNA ligase, cytoplasmic	P49589	1.287970902	0.0142965
Splicing factor U2AF 35kDa subunit	Q01081	1.282625505	2.41E-05
Serine/threonine-protein phosphatase PP1-beta catalytic subunit	P62140	1.193501186	0.0452264
Ras-related protein Rab-34	Q9BZG1	1.141000956	0.0335137

Supplemental table S9: List of proteins identified following MS analysis of protein removed of *N*-linked glycans and isolated from gels with an increased abundance in TIS Cal51 EVs induced with paclitaxel versus control Cal51 EVs.

Protein in increased abundance in TIS vs control EVs	Accession	Fold Change	Anova (P)
Annexin A2	P07355	1.178457721	0.00637542
Phosphatidylethanolamine-binding protein 1	P30086	1.227140127	0.0483411
T-complex protein 1 subunit theta	P50990	1.241255405	0.0106086
X-ray repair cross-complementing protein 6	P12956	1.246514789	0.0122118
Ran GTPase-activating protein 1	P46060	1.291188827	0.0218488
Inositol-3-phosphatesynthase 1	Q9NPH2	1.333206263	0.00858201
Proliferation-associated protein 2G4	Q9UQ80	1.353129577	0.0455019
EH domain-containing protein 1	Q9H4M9	1.384053777	0.0083531
40S ribosomal protein S2	P15880	1.422668959	0.0274312
40S ribosomal protein S17-like	P0CW22	1.43415405	0.0108975
60S ribosomal protein L10	P27635	1.443328807	0.009283
Nuclear auto antigenic sperm protein	P49321	1.45780727	0.014808
Cystathionine gamma-lyase	P32929	1.502119927	0.00106027
TAR DNA-binding protein 43	Q13148	1.506708157	0.0134933
D-3-phosphoglycerate dehydrogenase	O43175	1.556062491	0.0434195
tRNA-splicing ligase RtcB homolog	Q9Y3I0	1.561572985	0.0270469
T-complex protein 1 subunit zeta	P40227	1.580739898	0.030277
40S ribosomal protein S12	P25398	1.59416394	0.0169261
Endoplasmin	P14625	1.600142068	0.0260103
26S protease regulatory subunit 6A	P17980	1.617426327	0.0399022
40S ribosomal protein S23	P62266	1.620119241	0.0285712
DNA-(apurinicorapyrimidinicsite) lyase	P27695	1.640573238	0.0253855
Asparagine—tRNA ligase, cytoplasmic	O43776	1.661861324	0.0150217
Pyruvatedehydrogenase E1 component subunit beta, mitochondrial	P11177	1.734836858	0.00831638
Valine—tRNA ligase	P26640	1.735558507	0.0219802
DNA replication licensing factor MCM3	P25205	1.756982717	0.0374519
Dolichyl-diphosphooligosaccharide--proteinglycosyltransferasesubunit1	P04843	1.831848255	0.0123785
T-complex protein 1 subunit eta	Q99832	1.844461915	0.0228599
Hypoxiaup-regulated protein 1	Q9Y4L1	1.8598677	0.00151176
60kDa heats hock protein, mitochondrial	P10809	1.878264188	0.0107425
X-ray repair cross-complementing protein 5	P13010	1.930935535	0.0141476
40S ribosomal protein S5	P46782	2.070099338	0.0426601
T-complexprotein1subunitepsilon	P48643	2.087679143	0.0499197
Utrophin	P46939	2.131693472	0.00172523
Peroxiredoxin-5,mitochondrial	P30044	2.267810354	0.0255534
ATP synthase subunit alpha, mitochondrial	P25705	2.436482736	0.0253642
Tyrosine—tRNA ligase, cytoplasmic	P54577	2.458366478	0.00544043
Serine hydroxymethyltransferase, mitochondrial	P34897	2.464166944	0.01228
Small nuclear ribonucleoprotein SmD1	P62314	2.505328877	0.0223479
26S proteasome non-ATPase regulatory subunit 1	Q99460	2.574870722	0.0109817
26S protease regulatory subunit 6B	P43686	2.664934363	0.00141964
Ubiquitin carboxyl-terminal hydrolase 5	P45974	2.792002048	0.0131717
Polypyrimidine tract-binding protein 1	P26599	2.818055451	0.0296433
Kinesin-1 heavy chain	P33176	2.998207016	0.00948908
Transportin-1	Q92973	3.029752616	0.016929
Adenylate kinase 2, mitochondrial	P54819	3.192308327	0.0249354

Pre-mRNA-processing-splicing factor 8	Q6P2Q9	3.254870174	0.032419
ATP synthase subunit tbeta, mitochondrial	P06576	3.355900636	0.0287499
Catenin alpha-1	P35221	3.461266438	0.0259299
Fermitin family homolog 2	Q96AC1	3.872593307	0.0429621
E3 ubiquitin-protein ligase HUWE1	Q7Z6Z7	4.006104348	0.00617868
Glycine—tRNA ligase	P41250	4.140772669	0.00483186
Glycogen phosphorylase, liver form	P06737	4.204691636	0.0392842
Phosphoenolpyruvatecarboxy kinase[GTP], mitochondrial	Q16822	4.365660675	0.00547118
NAD(P)H dehydrogenase[quinone]1	P15559	4.503042207	0.0319597
Threonine—tRNA ligase, cytoplasmic	P26639	4.636062449	0.012884
DNA replication licensing factor MCM5	P33992	5.183045289	0.0123067
Pyridoxal kinase	O00764	5.681610769	0.0110155
DNA replication licensing factor MCM4	P33991	6.09362196	0.0404053
Alanine—tRNA ligase, cytoplasmic	P49588	6.333486927	0.0330602
Cytoplasmic dynein 1 heavy chain 1	Q14204	6.560473752	0.0191491
Trifunctional purine biosynthetic protein adenosine-3	P22102	12.33341143	0.00848097

Supplemental table S10: Exclusive list of proteins identified following MS analysis of protein removed of *N*-linked glycans and isolated from gels in TIS Cal51 EVs.

Protein exclusive to TIS EVs	Accession	Protein concentration
Phosphoglycolatephosphatase	A6NDG6	25.8641
Unconventional myosin-Ic	O00159	27.7892
Dynamin-1-like protein	O00429	27.311
Importin subunit alpha-4	O00505	24.4736
Coatomer subunit epsilon	O14579	26.4682
Myosin regulatory light chain 12A	P19105	27.3876
Protein phosphatase 1 regulatory subunit 12A	O14974	26.734
Phosphoribosylformyl glycin amidine synthase	O15067	27.4625
Actin-related protein 2/3 complex subunit 1B	O15143	26.0462
Actin-related protein 2/3 complex subunit 2	O15144	27.4443
Actin-related protein 2/3 complex subunit 3	O15145	26.378
Membrane-associated progesterone receptor component 2	O15173	25.763
Phosphomannomutase 2	O15305	24.6906
Bifunctional3'-phosphoadenosine5'-phosphosulfate synthase 1	O43252	26.646
Proline dehydrogenase 1, mitochondrial	O43272	27.8484
2'-deoxynucleoside5'-phosphateN-hydrolase 1	O43598	26.5046
Unconventional myosin-Ib	O43795	27.7078
Putative adenosyl homocysteinase 2	O43865	27.1415
Sortingnexin-2	O60749	26.0526
DnaJ homolog subfamily A member 2	O60884	26.9246
Huntingtin-interacting protein 1-related protein	O75146	24.8661
Protein Nip Snap homolog 2	O75323	25.9061
Vacuolar protein sorting-associated protein 26A	O75436	25.9888
Mitochondrial-processing peptidase subunit beta	O75439	25.478
Acyl-proteinthioesterase 1	O75608	26.7657
Cartilage-associated protein	O75718	25.3415
DnaJ homolog subfamily C member 8	O75937	25.4911
Glutaredoxin-3	O76003	26.7392
N(G),N(G)-dimethylargininedimethylaminohydrolase 1	O94760	25.948
Activator of 90kDa heat shock protein ATPase homolog 1	O95433	27.5415
Hypoxanthine-guanine phosphoribosyl transferase	P00492	26.273
Ornithine aminotransferase, mitochondrial	P04181	25.8103
Calpain small subunit 1	P04632	26.7854
Dolichyl-diphosphooligosaccharide—protein glycosyltransferase subunit 2	P04844	27.6665
Cathepsin B	P07858	24.957
ATP-dependent 6-phosphofructokinase, muscle type	P08237	25.781
Porphobilinogendeaminase	P08397	26.5129
Dihydrolipoyldehydrogenase, mitochondrial	P09622	26.6556
Lysosome-associated membrane glycoprotein 1	P11279	25.3316
Alcoholdehydrogenase class-3	P11766	27.0217

ADP/ATP translocase 3	P12236	26.5596
Cytochromec oxidase subunit 4 isoform 1, mitochondrial	P13073	24.8393
Junction plakoglobin	P14923	26.8964
Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	P16615	25.8541
CTP synthase 1	P17812	26.672
ATP-dependent6-phosphofructokinase, liver type	P17858	27.2328
Spermidine synthase	P19623	25.8996
Eukaryotic translation initiation factor 2 subunit 2	P20042	26.3257
Ras-related protein Rab-3B	P20337	25.8125
Voltage-dependent anion-selective channel protein 1	P21796	28.2646
rRNA2'-O-methyltransferase fibrillarin	P22087	25.3048
NADPH: adrenodoxinoxidoreductase, mitochondrial	P22570	26.1857
ATP synthase F(0) complex subunit B1, mitochondrial	P24539	24.4356
Proteasome subunit beta type-4	P28070	27.8364
DNA polymerase delta catalytic subunit	P28340	25.5908
Cytosolaminopeptidase	P28838	25.0944
Enoyl-CoA hydratase, mitochondrial	P30084	26.5256
Succinate dehydrogenase[ubiquinone] flavoprotein subunit, mitochondrial	P31040	26.045
Cytochromeb-c1complex subunit 1, mitochondrial	P31930	27.2006
Protein S100-A11	P31949	27.5106
Cleavage stimulation factor subunit 2	P33240	25.3076
Profilin-2	P35080	26.5085
Serpin B6	P35237	25.6499
60S ribosomal protein L22	P35268	27.7784
ADP-ribosylation factor-like protein 3	P36405	26.6116
Lon protease homolog, mitochondrial	P36776	27.9095
Dolichyl-diphosphooligosaccharide—protein glycosyltransferase 48kDa subunit	P39656	28.15
3-ketoacyl-CoA thiolase, mitochondrial	P42765	26.9045
Nicotin amidephosphoribosyltransferase	P43490	26.424
Voltage-dependent anion-selective channel protein 2	P45880	27.8898
60S ribosomal protein L28	P46779	26.4719
Protein glycosyltransferase subunit STT3A	P46977	25.6524
ATP synthase subunit O, mitochondrial	P48047	26.4
Prolylendopeptidase	P48147	25.8958
26S proteasome non-ATPase regulatory subunit 8	P48556	26.9844
Alpha-amino adipicsemialdehydedehydrogenase	P49419	27.4969
Proteasome subunit beta type-2	P49721	26.8366
Serpin B9	P50453	25.1455
Fragile X mental retardation syndrome-related protein 1	P51114	26.727
Peroxisomal multifunctional enzyme type 2	P51659	26.9226
DNA mismatch repair protein Msh6	P52701	26.1994
Ubiquitin carboxyl-terminal hydrolase 14	P54578	27.3773
Delta-1-pyrroline-5-carboxylate synthase	P54886	28.1181
26S proteasome non-ATPase regulatory subunit 4	P55036	26.3803
Trifunctional enzyme subunit beta, mitochondrial	P55084	26.9153
Afadin	P55196	26.0544
C-terminal-binding protein 2	P56545	26.0404
Protein transport protein Sec61 subunit beta	P60468	24.0719
Ras-related protein Rab-10	P61026	26.8279
Ubiquitin-conjugating enzyme E2K	P61086	26.4212
Ubiquitin-conjugating enzyme E2N	P61088	26.5393
Proteasome activator complex subunit 3	P61289	26.2974
Eukaryotic peptide chain release factor subunit 1	P62495	27.1621
40S ribosomal protein S21	P63220	27.4348
Serine/threonine-proteinphosphatase 2A catalytic subunit alpha isoform	P67775	26.9351
Ubiquitin-conjugating enzyme E2L3	P68036	27.0897
General transcription factor II-I	P78347	27.3947
ADP-ribosylation factor 5	P84085	25.719
Phosphate carrier protein, mitochondrial	Q00325	27.4358
1,4-alpha-glucan-branching enzyme	Q04446	25.5603
Lactoylglutathionelyase	Q04760	27.4215
Aldo-ketoreductase family 1 member C1	Q04828	27.8065
Glutamine--fructose-6-phosphateaminotransferase[isomerizing]1	Q06210	27.2466
Quinone oxidoreductase	Q08257	25.8873
Pseudouridine-5'-monophosphatase	Q08623	25.4221
tRNA(cytosine(34)-C(5))-methyltransferase	Q08J23	25.3875

Nuclear cap-binding protein subunit 1	Q09161	25.0943
Polypeptide N-acetylgalactosaminyltransferase 2	Q10471	25.9834
AP-1 complex subunit beta-1	Q10567	25.0446
Secernin-1	Q12765	25.4046
G-rich sequence factor 1	Q12849	24.9404
Polyadenylate-binding protein 4	Q13310	26.368
Dynactin subunit 2	Q13561	25.8143
NEDD8-activating enzyme E1 regulatory subunit	Q13564	25.703
Ras GTPase-activating-like protein IQGAP2	Q13576	27.3031
Coactosin-likeprotein	Q14019	25.6281
Proteinscribblehomolog	Q14160	24.3237
Malectin	Q14165	25.1653
Tubulin--tyrosineligase-likeprotein12	Q14166	26.0531
Reticulocalbin-2	Q14257	26.3402
E3ubiquitin/ISG15ligaseTRIM25	Q14258	25.9756
Caprin-1	Q14444	25.5523
Prostaglandin reductase 1	Q14914	26.2699
26S proteasome non-ATPase regulatory subunit 6	Q15008	26.2014
Platelet-activating factor acetylhydrolase IB subunit gamma	Q15102	26.9632
Prostaglandin E synthase 3	Q15185	25.6156
Transmembrane emp 24 domain-containing protein 2	Q15363	27.1553
Splicing factor 3B subunit 3	Q15393	27.2825
Ras suppressor protein 1	Q15404	25.9254
Translin	Q15631	27.0421
Microtubule-associated protein RP/EB family member 1	Q15691	26.8294
Hydroxyacyl-coenzyme Adehydrogenase, mitochondrial	Q16836	28.3268
Sister chromatid cohesion protein PDS5 homolog A	Q29RF7	26.6549
Prolyl3-hydroxylase1	Q32P28	27.3827
Protein FAM98B	Q52LJ0	26.7853
E3 ubiquitin-protein ligase UBR4	Q5T4S7	26.0998
5'-nucleotidase domain-containing protein 1	Q5TFE4	26.5778
Proteasome-associated protein ECM29 homolog	Q5VYK3	25.5324
Twinfilin-2	Q6IBS0	27.256
PhospholipaseB-like1	Q6P4A8	24.8244
40S ribosomal protein S27-like	Q71UM5	25.6361
L-xylulose reductase	Q7Z4W1	24.0752
Ribonucleoprotein PTB-binding 1	Q8IY67	25.832
THO complex subunit 2	Q8NI27	24.3681
Nuclear protein localization protein 4 homolog	Q8TAT6	25.8688
Sec1 family domain-containing protein 1	Q8WVM8	24.5933
U4/U6 small nuclear ribonucleoprotein Prp31	Q8WWY3	26.2872
Paraspeckle component 1	Q8WXF1	26.7291
Beta-catenin-like protein 1	Q8WYA6	24.4872
Translational activator GCN1	Q92616	27.3332
Regulator of nonsense transcripts 1	Q92900	26.0076
Ubiquitin carboxyl-terminal hydrolase 7	Q93009	26.8151
Carboxymethylenebutenolidase homolog	Q96DG6	25.3738
Phosphoglucomutase-2	Q96G03	25.4527
Serinede hydratase-like	Q96GA7	25.7444
MMS19 nucleotide excision repair protein homolg	Q96T76	25.5506
Tubulin-folding cofactor B	Q99426	25.1142
Proteasome subunit beta type-7	Q99436	26.9547
Prohibitin-	Q99623	27.7717
O-acetyl-ADP-ribose deacetylase MACROD1	Q9BQ69	25.8055
Myb-binding protein 1A	Q9BQG0	25.7191
3-hydroxybutyratedehydrogenase type 2	Q9BUT1	24.747
N-alpha-acetyltransferase15,NatAauxiliary subunit	Q9BXJ9	26.81
Ras-related protein Rab-34	Q9BZG1	25.5876
N-acetyltransferase 10	Q9H0A0	25.3406
Integrin-linked kinase-associated serine/threoninephosphatase 2C	Q9H0C8	24.8884
Inorganic pyrophosphatase 2, mitochondrial	Q9H2U2	25.8217
Thioredoxin-related transmembrane protein1	Q9H3N1	24.8091
GDP-fucoseproteinO-fucosyltransferase1	Q9H488	26.1803
Aminopeptidase B	Q9H4A4	25.7262
Epidermal growth factor receptor kinase substrate8-like protein 2	Q9H6S3	25.5877
MOB kinase activator 1A	Q9H8S9	25.0254
UPF0364 protein C6orf211	Q9H993	27.6087

GTP-binding protein SAR1a	Q9NR31	27.2771
Sialic acid synthase	Q9NR45	25.8763
L-aminoadipate-semialdehydedehydrogenase-phosphopantetheinyltransferase	Q9NRN7	25.4921
Isoleucine—tRNA ligase, mitochondrial	Q9NSE4	27.1049
Structural maintenance of chromosomes protein 4	Q9NTJ3	25.7998
Dipeptidylpeptidase3	Q9NY33	25.8305
Tropomodulin-3	Q9NYL9	26.2009
UDP-glucose:glycoproteinglucosyltransferase 1	Q9NYU2	27.7949
Thymocyte nuclear protein 1	Q9P016	23.9727
Succinyl-CoA ligase [ADP-forming]subunit beta, mitochondrial	Q9P2R7	26.491
Ataxin-10	Q9UBB4	26.8123
Coatomer subunit gamma-2	Q9UBF2	27.1673
Vacuolar protein sorting-associated protein 29	Q9UBQ0	25.6697
Eukaryotic translation initiation factor 3 subunit K	Q9UBQ5	25.3784
DnaJ homolog subfamily B member 11	Q9UBS4	25.5454
Tight junction protein ZO-2	Q9UDY2	26.4867
Signal recognition particle subunit tSRP68	Q9UHB9	27.1375
Stomatin-like protein 2, mitochondrial	Q9UJZ1	27.1394
Proteasome activator complex subunit 2	Q9UL46	27.6617
Malignant T-cell-amplified sequence 1	Q9ULC4	25.3525
Coronin-1C	Q9ULV4	26.7402
26S proteasomenon-ATPase regulatory subunit 13	Q9UNM6	27.698
Developmentally-regulated GTP-binding protein 1	Q9Y295	25.4914
Glutathione S-transferase kappa 1	Q9Y2Q3	24.7395
Insulin-like growth factor 2 mRNA-binding protein 2	Q9Y6M1	26.9719
Signal recognition particle subunit SRP68	Q9UHB9	25.8641
Stomatin-like protein 2, mitochondrial	Q9UJZ1	27.7892
Proteasome activator complex subunit 2	Q9UL46	27.311
MalignantT-cell-amplifiedsequence1	Q9ULC4	24.4736
Coronin-1C	Q9ULV4	26.4682
26S proteasome non-ATPase regulatory subunit 13	Q9UNM6	27.3876
Developmentally-regulated GTP-binding protein 1	Q9Y295	26.734
Glutathione S-transferase kappa 1	Q9Y2Q3	27.4625
Insulin-like growth factor 2 mRNA-binding protein 2	Q9Y6M1	26.0462

Supplemental table S11: List of proteins identified following MS analysis of protein removed of *N*-linked glycans and isolated from gels with an increased abundance in control Cal51 EVs versus TIS Cal51 EVs induced with paclitaxel.

Protein in increased abundance in control vs TIS EVs	Accession	Fold Change	Anova (P)
Fibronectin	P02751	33.54207418	0.0305652
Apolipoprotein E	P02649	23.11247734	0.00306597
Basement membrane-specific heparan sulfate proteoglycan core protein	P98160	11.97123426	0.0412032
Collagen alpha-1(XVIII) chain	P39060	6.779599266	0.00647049
Histone H1.5	P16401	5.276202734	0.0155916
Histone H3.2	Q71DI3	4.573821298	0.0261897
Histone H1.2	P16403	4.380817151	0.0354214
Histone H2B type1-M	Q99879	3.876353119	0.00225455
Agrin	O00468	3.206945864	0.0459077
Collagen alpha-1(IV) chain	P02462	2.313536724	0.00090728
Prelamin-A/C	P02545	2.29787449	0.0309476
Serine/arginine-rich splicing factor 7	Q16629	1.967004148	0.00347486
Fructose-bisphosphatealdolase C	P09972	1.397937635	0.0266724
Heterogeneous nuclear ribonucleoproteins C1/C2	P07910	1.371162919	0.0110731
Ribosome-binding protein 1	Q9P2E9	1.301883181	0.0433206
Basigin	P35613	1.213521778	0.0407523
Talin-1	Q9Y490	1.177477914	0.0296318
60S ribosomal protein L4	P36578	1.153485605	0.0194066

Supplemental table S12: Exclusive list of proteins identified following MS analysis of protein removed of *N*-linked glycans and isolated from gels in control Cal51 EVs.

Protein exclusive to control EVs	Accession	Protein concentration
Syntenin-1	O00560	27.428
Laminin subunit alpha-5	O15230	25.9499
Perilipin-3	O60664	24.4035
Left-right determination factor 1	O75610	25.5903
Persulfide dioxygenase ETHE1, mitochondrial	O95571	25.4082
Protein S100-A6	P06703	25.7109
Collagen alpha-2(I)chain	P08123	29.4969
Collagen alpha-2(IV)chain	P08572	27.4249
Histone H1.4	P10412	27.3006
Collagen alpha-1(VI)chain	P12109	26.1262
Pentraxin-related protein PTX3	P26022	27.566
RNA-binding motif protein, X chromosome	P38159	24.4639
Small nuclear ribonucleoprotein E	P62304	26.6096
Galectin-3-binding protein	Q08380	29.4234
Chromobox protein homolog 3	Q13185	25.1073
Cytoplasmic dynein 1 intermediate chain 2	Q13409	25.1945
La-related protein 1	Q6PKG0	27.0741
THO complex subunit 4	Q86V81	26.7076
Collage nalpha-1(XII) chain	Q99715	29.0361
Xaa-Proaminopeptidase 1	Q9NQW7	25.4982
Pre-mRNA-processing factor 19	Q9UMS4	25.3338

Supplemental Table S13: Exoglycosidase specificities

Enzyme	Digests	µl added	Total concentration in units
ABS (Sialidase A)	α2-3,6 & 8 linked non-reducing terminal sialic acids (NeuNAc and NeuNGc)	NEB 1 µL	2000 U/mL
NAN1 (Sialidase S)	α2-3 linked non-reducing terminal sialic acids (NeuNAc and NeuNGc)	NEB 1 µL	800 U/mL
BTG (β1-3,4-galactosidase)	non-reducing terminal galactose β1-3 and β1-4	Prozyme 2 µL	1 U/mL
SPG (β1-4-galactosidase)	non-reducing terminal galactose β1-4	Prozyme 2 µL	0.4 U/mL
BKF (α1-2,3,4,6-fucosidase)	non-reducing terminal fucose residues α1-2,6 linked more efficiently than α1-3,4 linked fucose. Digests core fucose α1-6 and α1-3 linked.	NEB 1 µL	800 U/mL
AMF (α1-3,4-fucosidase)	non-reducing terminal fucose residues α1-3 & 4 linked. Not core fucose α1-6 linked.	NEB 1 µL	400 U/mL
GUH (β-N-acetylglucosaminidase)	digests βGlcNAc.	NEB 1 µL	400 U/mL
JBM (α1-2,3,6-mannosidase)	non-reducing terminal mannose α1-2,6 linked more efficiently than α1-3 linked.	NEB 2 µL + 1 µL zinc buffer.	400 U/mL