

Supporting Information

Implementing In-Cell Fast Photochemical Oxidation of Proteins in a Platform Incubator with Movable XY Stage

Danté T. Johnson,[†] Benjamin Punshon-Smith,[‡] Jessica A. Espino,[†] Anne Gershenson,[§] Lisa M. Jones*,[†]

[†]Department of Pharmaceutical Sciences, University of Maryland, Baltimore, Maryland 21201, United States

[‡]Technology Research Center, University of Maryland Baltimore County, Catonsville, Maryland 21250, United States

[§]Department of Biology and Molecular Biology, University of Massachusetts, Amherst, Massachusetts 01003, United States

*Correspondence to:

Lisa M. Jones

Department of Pharmaceutical Sciences

University of Maryland, Baltimore, MD 21201

Phone number: (410) 706-3380

Email: ljones@rx.umaryland.edu

Table of Contents

Supplementary Methods	S2
Supplemental Figures	S6
Figure S1.	S6
Figure S2.	S7
Figure S3.	S8
Supplementary Tables.....	S9
Table S1. Average number of modifications per system.....	S9
Table S2. Solvent accessible surface area (SASA) of modified residues in actin.....	S10
Table S3. IC-FPOP oxidatively modified proteins in 100 mM H ₂ O ₂ Flow.....	S11
Table S4. IC-FPOP oxidatively modified proteins in 100 mM H ₂ O ₂ PIXY	S27
Table S5. IC-FPOP oxidatively modified proteins in 200 mM H ₂ O ₂ PIXY.....	S51
Table S6. IV-FPOP oxidatively modified proteins in 200 mM H ₂ O ₂ PIXY.....	S85
Table S7. Average number of modifications per system (Full list of raw data).....	S112

Supplemental Methods

Materials. Hydrogen peroxide, formic acid, dimethyl sulfoxide (DMSO), dimethylthiourea (DMTU), N-tert-butyl-phenylnitron (PBN), iodoacetamide (IAA), Lipofectamine 3000 transfection kit, Opti-MEM I (1X), Dulbecco's modified Eagle's medium (DMEM), Dulbecco's phosphate-buffered saline (DPBS), LC-MS grade solvents, acetone, fetal bovine serum (FBS), nuclease, trypsin, and GeneJet Plasmid Maxiprep kit were purchased from Thermo Fisher Scientific (Waltham, MA). Penicillin-streptomycin and 10X trypsin-EDTA were purchased from Corning (Corning, NY). Dithiothreitol (DTT) was purchased from American Bio (Canton, MA). Flow cell fittings were obtained from IDEX Health and Science (Oak Harbor, WA). Polyimide-coated fused silica was obtained from Polymicro Technologies (Phoenix, AZ). HEK293T cells were a gift from the Paul Shapiro Lab (University of Maryland Baltimore).

Equipment and software. Sterile incubator, carbon dioxide unit (CO2-UNIT-BL), temperature unit (H301-T Unit-BL-PLUS), air pump, humidifier, PTFE filter, and pressure gauge were purchased from OKOlabs (Ambridge, PA). Nano-LPMW stage, MadMotor Positioning system and controllers were purchased from Mad City Labs (Madison, WI). Ismatec Reglo ICC Peristaltic Pumps, tubing (Tygon 3.18 and 1.59 ID), and connectors (Y PP 1/16" and 1/16x1/8") were purchased from Cole-Palmer (Barrington, IL). Mirrors (50 mm) and mounts were purchased from Edmond Optics (Barrington, NJ) and Thor Labs (Newton, NJ) respectively. Six 33 mm PLA filament rings were designed with TiNKERcad and 3D printed using Afinia H480 3D Printer (Innovation Space University of Maryland Baltimore Campus Library). Preliminary automation was developed using LABVIEW Professional 2018 purchased from National Instruments (Austin, TX).

In-Cell FPOP Flow System. IC-FPOP was completed as previously described.²¹ Briefly, HEK cells were grown to 80% confluence in a T-175 flask in DMEM supplemented with FBS and streptomycin-penicillin. The cells were trypsinized, centrifuged, and

resuspended in 6 mL of sterile DPBS. Each sample was prepared with 450 μ L of cells and 50 μ L of PBS. For IC-FPOP with the flow system, the cells were mixed in the syringe using a VP710 tumble stirrer (V&P Scientific, San Diego, CA) with six VP724F stir discs to prevent cell settling. Hydrogen peroxide, 100 mM, was mixed with the cells at the mixing tee. Samples were passed through a flow cell system at a total flow rate of 492.4 μ L/ min. The excimer laser was set to a pulse frequency of 44 Hz, with a laser energy of ~160 mJ and a pulse width of 2.58 ns. Cells were collected in a tube containing 11 mL of a quench solution composed of 125 mM DMTU and 125 mM PBN. DMSO (1%) was added to the quench solution to inhibit methionine sulfoxide reductase. Cells were labeled in biological duplicate, each in technical triplicate with an equal number of controls (no laser irradiation).

Cell Lysis and Proteolysis. Post FPOP, cells were centrifuged and resuspended in 100 μ L of radioimmunoprecipitation assay (RIPA) buffer, frozen in liquid nitrogen, and stored at -80 °C overnight. Cells were thawed, incubated at 95 °C for 5 min, and cooled on ice for 5 min. The samples were treated with nuclease at room temperature for 15 min, centrifuged, and the supernatant was transferred to a new tube. The cell lysate was reduced with 500 mM DTT, alkylated with 500 mM IAA, and precipitated overnight with acetone. The precipitate was resuspended in 10 mM Tris and digested with trypsin overnight at 37 °C. Formic acid (FA) was added to a final concentration of 5% to quench digestion.

Liquid Chromatography–Tandem Mass Spectrometry (LC–MS/MS). Digested samples (50 μ g) were loaded onto an M-Class C18 trap column (Waters) and washed for 10 min with 0.1% formic acid at 15 μ L/min with an M-Class Acquity liquid chromatograph. Peptides were eluted and separated on a silica capillary column that was packed in-house with C18 reverse phase material (Aqua, 0.075 \times 20 mm, 5 μ m, 125 A, Phenomenex). The gradient was pumped at 300 nL/min for 120 min as follows: 0–1 min, 3% solvent B (acetonitrile, 0.1% formic acid); 2–90 min, 10–45% B; 100–105 min, 100% B; 106–120 min, 3% B. Eluted peptides were analyzed

under positive ion mode nanoflow electrospray using an Orbitrap Lumos Fusion mass spectrometer (Thermo Scientific). The mass spectrometer was operated in data-dependent acquisition mode. MS1 spectra were acquired over an m/z range of 375–1500 with 60000 resolution, with a dynamic exclusion of 60 s. The AGC target was set at 5.5e5 with a maximum injection time of 50 ms and 5.0e4 intensity threshold. Ions with charge states of 2-6 were ejected. MS2 ions were subjected to high-energy collisional dissociation (HCD) (32% normalized collision energy) and detected in the orbitrap with 15000 resolution and a 5.0e4 AGC target.

Data Analysis. All data files were searched as using Proteome Discoverer version 2.2 (Thermo Fisher Scientific, Waltham, MA) with Sequest HT against the Swiss-Prot reviewed human FASTA database that contains 20,193 proteins. Extracted ion chromatogram (EIC) areas for each peptide spectrum match (PSM) were calculated using a custom multilevel workflow. Briefly, five search algorithm levels were constructed in Proteome Discoverer and the commonly observed FPOP modifications were dispersed across the individual search levels. The fragment ion tolerance was set at 0.02 Da and the parent ion tolerance at 10 ppm, with the enzyme specificity set to trypsin with one missed cleavage. Peptides were ungrouped and filtered with the false discovery rate (FDR) set to a 5%. The data were exported to Excel and summarized using the PowerPivot add-in. Proteins were accepted if at least two distinct peptides were identified with the 5% FDR filter. The fractional oxidation per peptide or residue was determined according to the following equation: $(\sum \text{EIC area modified}) / (\sum \text{EIC area})$ (1)

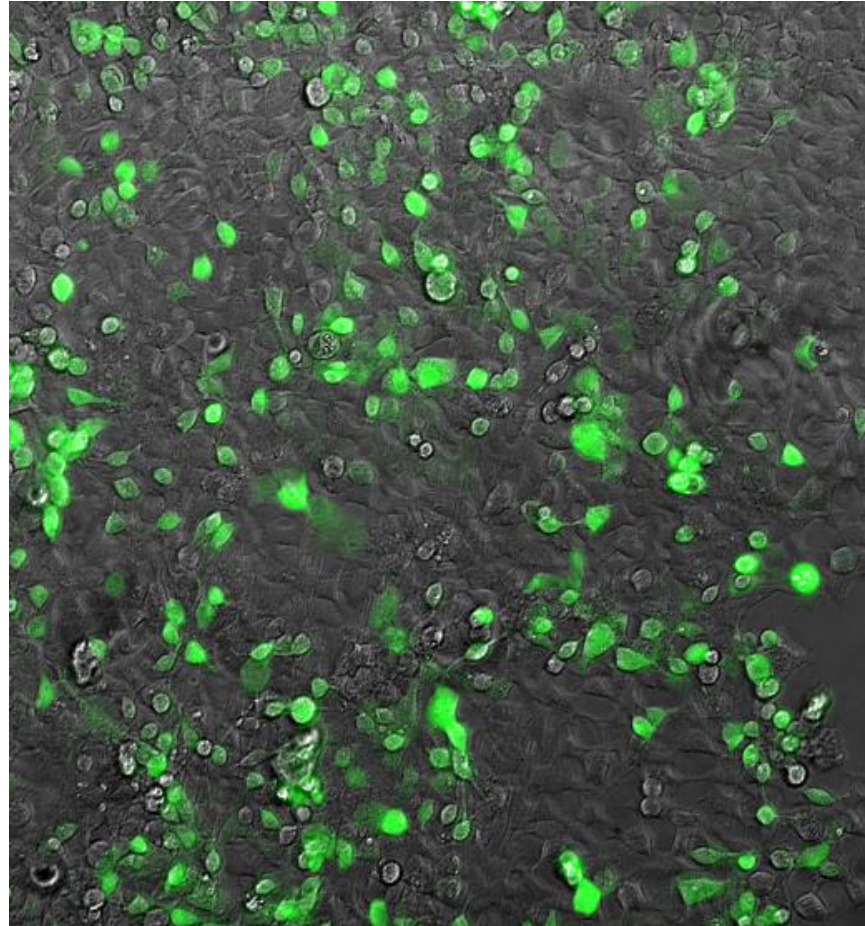
where, for peptide-level analysis, EIC area modified is the EIC area of a PSM containing an FPOP modification, and EIC area is the EIC area of any PSM with a sequence identical to that containing the modification. For residue-level analysis, EIC area modified is the EIC area of a PSM for a specific modified residue and EIC area is the EIC area of a PSM with sequences identical to those containing the modification.

GCaMP2 Fluorescence Transfection and Imaging. HEK cells were grown without antibiotic and harvested as described above in a six-well plate. Escherichia coli (strain DH10B) were transformed with pET28-GFP plasmid, grown in 250 ml LB broth overnight, and the plasmid was purified with a GeneJET Plasmid Maxiprep kit (Thermo Scientific., Vilnius, Lithuania). Cells were transfected using the Lipofectamine 3000 protocol. Briefly, 3.75 μ l of Lipofectamine reagent was diluted in 125 μ l of Opti-MEM medium. DNA master mix included 5 μ g of DNA, 60 μ l of P3000, and 1.5 ml of Opti-MEM. Diluted DNA and diluted Lipofectamine reagent were mixed at a 1:1 ratio and incubated at room temperature for 20 minutes. 250 μ l of the mix was then added to each well of HEK cells in the 6-well plate. Cell media was changed after 8 hours and imaging was done after 48 hours of incubation. Imaging was completed on a Leica SP8 confocal laser scanning microscope (Leica Microsystems Inc., Buffalo Groves, IL) with a Nikon Fluor 40x/0.80 W DLL objective (Nikon Instruments Inc., Melville, NY) with an exposure time of 500 ms.

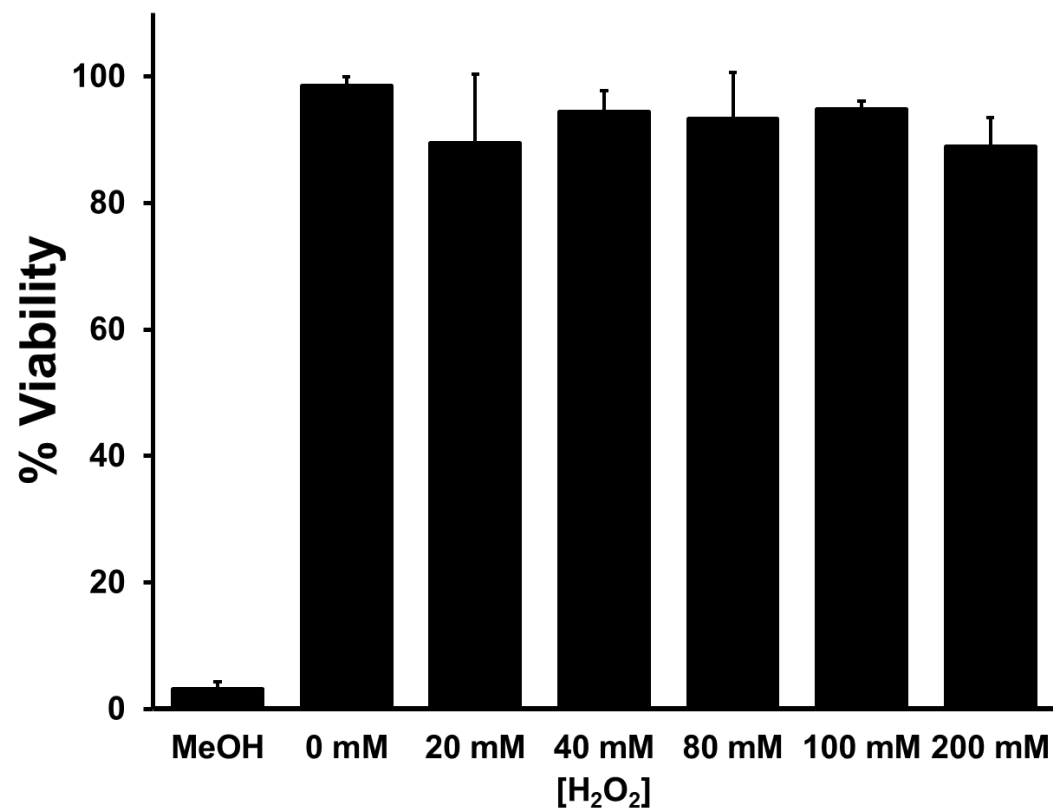
Luciferase assay. Transfection efficiency was validated with a different vector plasmid, pRL-TK with the same transfection protocol above using Firefly luciferase.

Cell Viability Assay. HEK cells in DMEM media supplemented with 10% FBS were cultured in a T-175 flask to 70% confluence in the presence of streptomycin and penicillin. Cells were trypsinized, centrifuged, and resuspended in sterile PBS. Cells, 20 μ L, were aliquoted. A 200 mM stock of hydrogen peroxide was used to prepare 20, 40, 80, 100, 200 mM concentrations. Cells were incubated with 20 μ L hydrogen peroxide for 10 min, then mixed with 20 μ L of Trypan Blue stain 0.4%. The mixture was placed on a glass slide and cell viability was tested on Countess II (Thermo Fisher Scientific, Waltham, MA). Triplicate samples were measured for each H₂O₂ concentration.

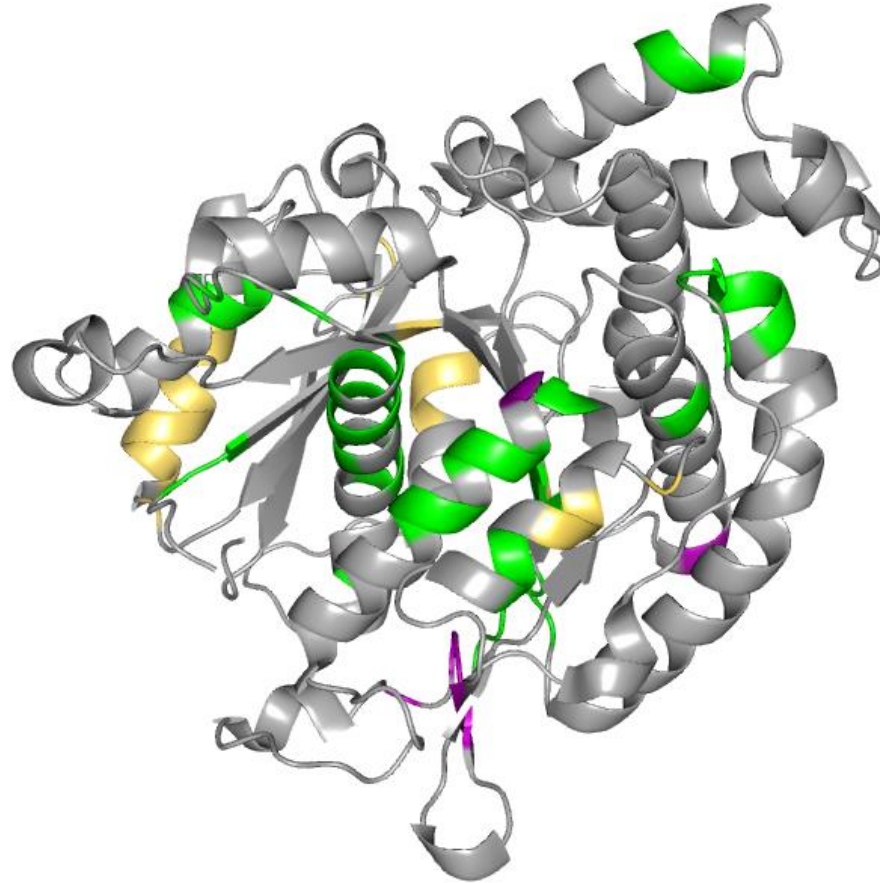
Supplemental Figures



Supplemental Figure S1. HEK cell transfection efficiency. Fluorescent image of HEK cells transfected with GCaMP2 and grown in the stage top incubator, PIXY.



Supplemental Figure S2. HEK cell viability assay with increased concentrations of hydrogen peroxide. Methanol was used as a negative control, cell viability ~3%. Error bars equal the standard deviation of three replicates.



Supplemental Figure S3. Number of residues modified in the single cell flow system vs. PIXY. Modified residues of Tubulin beta chain (PDB:5N5N), 67 modified residues in PIXY (green), modified residues in flow (purple), overlapping modified residue (yellow).

Supplemental Tables

Condition and System	Average	SD
100 mM H ₂ O ₂ FLOW	10.98	±13.56
100 mM H ₂ O ₂ PIXY	11.08	±13.27
200 mM H ₂ O ₂ PIXY	41.29	±59.30
200 mM H ₂ O ₂ FLOW (<i>in vivo</i>)	13.11	±16.13
200 mM H ₂ O ₂ PIXY (<i>in vivo</i>)	14.49	±23.21

Table S1. Average number of residues modified per condition in each system.

G-actin	6ZXJ	6ZXJ	6ZXJ	6ZXJ	6ZXJ
Modified Residues	Chain A %	Chain B %	Chain C %	Chain D %	Chain E %
M44^a	3.7	6.0	4.6	78.9	74.9
V45^a	3.6	5.8	4.3	100	100
D51^a	71	73.6	74.3	75	76.1
F127^b	3.9	3.7	5.7	6.9	7.5
Y133^b	9.2	9.1	1.6	7.5	6
V152^b	3.2	4	0.7	0.7	0.7
M153^b	2.1	1.7	1.8	1.7	1.4
D154^b	2.2	1.8	1.6	0.4	0.1
H161^b	1	0.2	2.7	0.9	2.3
M190^b	26.3	26.5	26.7	26.3	24.9
L299^b	3.2	0.4	1.3	0.8	0.8
M305^b	35	35.8	35.9	34.6	43.8
K326^b	100	100	100	100	93.6
P322^{a,b}	49.1	42.1	25.6	26.5	26

^a=Residue modified with the flow system

^b=Residue modified with PIXY

Table S2. Solvent Accessible surface area (SASA) of modified residues in actin. The solvent accessibility of each modified residue using the GETAREA 1.0 beta online software. Residues are solvent exposed if the ratio value exceeds 50% and to be buried if the ratio is less than 20%.

Table S3. IC-FPOP oxidatively modified proteins in 100 mM H₂O₂ Flow

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P61604	10 kDa heat shock protein, mitochondrial	Biological Replicate 2 Only	2
Q9NRX4	14 kDa phosphohistidine phosphatase	Biological Replicate 1 Only	1
P31946	14-3-3 protein beta/alpha	Biological Replicate 2 Only	1
Q04917	14-3-3 protein eta	Biological Replicate 2 Only	1
P61981	14-3-3 protein gamma	Biological Replicate 2 Only	1
P27348	14-3-3 protein theta	Biological Replicate 2 Only	1
P27348	14-3-3 protein theta	Biological 1 and 2	2
P63104	14-3-3 protein zeta/delta	Biological 1 and 2	2
Q6L8Q7	2',5'-phosphodiesterase 12	Biological Replicate 2 Only	1
Q9Y3D3	28S ribosomal protein S16, mitochondrial	Biological Replicate 1 Only	1
P52815	39S ribosomal protein L12, mitochondrial	Biological Replicate 2 Only	1
P46782	40S ribosomal protein S5	Biological Replicate 2 Only	1
P10809	60 kDa heat shock protein, mitochondrial	Biological Replicate 2 Only	5
P05387	60S acidic ribosomal protein P2	Biological Replicate 2 Only	1
P62917	60S ribosomal protein L8	Biological Replicate 1 Only	1
P24752	Acetyl-CoA acetyltransferase, mitochondrial	Biological Replicate 2 Only	1
Q13085	Acetyl-CoA carboxylase 1	Biological Replicate 2 Only	1
P68032	Actin, alpha cardiac muscle 1	Biological 1 and 2	8
P68133	Actin, alpha skeletal muscle	Biological 1 and 2	7
P68133	Actin, alpha skeletal muscle	Biological Replicate 1 Only	1
P62736	Actin, aortic smooth muscle	Biological 1 and 2	7
P60709	Actin, cytoplasmic 1	Biological 1 and 2	6
P60709	Actin, cytoplasmic 1	Biological Replicate 1 Only	3
P63261	Actin, cytoplasmic 2	Biological 1 and 2	9
P63267	Actin, gamma-enteric smooth muscle	Biological Replicate 1 Only	1
P63267	Actin, gamma-enteric smooth muscle	Biological 1 and 2	6
O95622	Adenylate cyclase type 5	Biological Replicate 1 Only	1
Q96PE1	Adhesion G protein-coupled receptor A2	Biological Replicate 2 Only	1
P12235	ADP/ATP translocase 1	Biological Replicate 2 Only	1
P05141	ADP/ATP translocase 2	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P12236	ADP/ATP translocase 3	Biological Replicate 2 Only	1
Q9H0C2	ADP/ATP translocase 4	Biological Replicate 2 Only	1
O00468	Agrin	Biological Replicate 2 Only	1
Q13023	A-kinase anchor protein 6	Biological Replicate 1 Only	1
Q5JTZ9	Alanine--tRNA ligase, mitochondrial	Biological Replicate 1 Only	1
Q9UM73	ALK tyrosine kinase receptor	Biological Replicate 2 Only	1
Q13424	Alpha-1-syntrophin	Biological Replicate 2 Only	1
O43768	Alpha-endosulfine	Biological Replicate 2 Only	1
P06733	Alpha-enolase	Biological 1 and 2	2
Q9UJX5	Anaphase-promoting complex subunit 4	Biological Replicate 2 Only	1
Q9UJX4	Anaphase-promoting complex subunit 5	Biological Replicate 1 Only	1
Q5TYW2	Ankyrin repeat domain-containing protein 20A1	Biological Replicate 2 Only	1
Q5SQ80	Ankyrin repeat domain-containing protein 20A2	Biological Replicate 2 Only	1
Q5VUR7	Ankyrin repeat domain-containing protein 20A3	Biological Replicate 2 Only	1
Q4UJ75	Ankyrin repeat domain-containing protein 20A4	Biological Replicate 2 Only	1
Q5CZ79	Ankyrin repeat domain-containing protein 20B	Biological Replicate 2 Only	1
Q8TF21	Ankyrin repeat domain-containing protein 24	Biological Replicate 1 Only	1
A6QL64	Ankyrin repeat domain-containing protein 36A	Biological Replicate 1 Only	1
Q8N2N9	Ankyrin repeat domain-containing protein 36B	Biological Replicate 1 Only	1
Q5JPF3	Ankyrin repeat domain-containing protein 36C	Biological Replicate 1 Only	1
Q8TD06	Anterior gradient protein 3	Biological Replicate 2 Only	1
Q9UPP5	AP2-interacting clathrin-endocytosis protein	Biological Replicate 2 Only	1
Q07812	Apoptosis regulator BAX	Biological Replicate 2 Only	1
P25705	ATP synthase subunit alpha, mitochondrial	Biological Replicate 1 Only	1
P18859	ATP synthase-coupling factor 6, mitochondrial	Biological Replicate 2 Only	1
Q9NR09	Baculoviral IAP repeat-containing protein 6	Biological Replicate 2 Only	1
Q6ZT62	Bargin	Biological Replicate 2 Only	2
P35613	Basigin	Biological Replicate 1 Only	1
Q96PG8	Bcl-2-binding component 3, isoforms 3/4	Biological Replicate 2 Only	1
Q562R1	Beta-actin-like protein 2	Biological Replicate 1 Only	2
Q562R1	Beta-actin-like protein 2	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q9Y5Z0	Beta-secretase 2	Biological Replicate 2 Only	1
P80723	Brain acid soluble protein 1	Biological Replicate 2 Only	1
Q6PJG6	BRCA1-associated ATM activator 1	Biological Replicate 1 Only	1
Q9ULD4	Bromodomain and PHD finger-containing protein 3	Biological Replicate 1 Only	1
Q9NSI6	Bromodomain and WD repeat-containing protein 1	Biological Replicate 2 Only	1
Q8NCU7	C2 calcium-dependent domain-containing protein 4A	Biological Replicate 1 Only	1
A6NLJ0	C2 calcium-dependent domain-containing protein 4B	Biological Replicate 1 Only	1
Q9Y6N8	Cadherin-10	Biological Replicate 1 Only	1
P55285	Cadherin-6	Biological Replicate 1 Only	1
Q96JQ2	Calmin	Biological Replicate 1 Only	1
P20810	Calpastatin	Biological Replicate 2 Only	1
P27797	Calreticulin	Biological 1 and 2	2
Q6ZU35	Cancer-related regulator of actin dynamics	Biological Replicate 1 Only	1
Q8WXD9	Caskin-1	Biological Replicate 2 Only	1
Q9BX69	Caspase recruitment domain-containing protein 6	Biological Replicate 2 Only	1
P35222	Catenin beta-1	Biological Replicate 2 Only	1
O60716	Catenin delta-1	Biological Replicate 2 Only	1
O43264	Centromere/kinetochore protein zw10 homolog	Biological Replicate 2 Only	1
Q5SW79	Centrosomal protein of 170 kDa	Biological Replicate 2 Only	1
Q96L14	Cep170-like protein	Biological Replicate 2 Only	1
Q8TD26	Chromodomain-helicase-DNA-binding protein 6	Biological Replicate 2 Only	1
Q9P2D1	Chromodomain-helicase-DNA-binding protein 7	Biological Replicate 2 Only	1
Q3L8U1	Chromodomain-helicase-DNA-binding protein 9	Biological Replicate 2 Only	1
P28331	CI-75kD	Biological Replicate 1 Only	1
Q8TBY9	Cilia- and flagella-associated protein 251	Biological Replicate 1 Only	1
Q96MR6	Cilia- and flagella-associated protein 57	Biological Replicate 2 Only	1
Q7Z4T9	Cilia- and flagella-associated protein 91	Biological Replicate 2 Only	1
P09496	Clathrin light chain A	Biological Replicate 2 Only	2
P53618	Coatomer subunit beta	Biological Replicate 1 Only	1
Q8TD31	Coiled-coil alpha-helical rod protein 1	Biological Replicate 1 Only	1
Q96A33	Coiled-coil domain-containing protein 47	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q17RW2	Collagen alpha-1	Biological Replicate 1 Only	1
Q9BXR6	Complement factor H-related protein 5	Biological Replicate 1 Only	1
O75489	Complex I-42kD	Biological Replicate 2 Only	1
Q96FN4	Copine-2	Biological Replicate 2 Only	1
O75131	Copine-3	Biological Replicate 2 Only	1
Q96A23	Copine-4	Biological Replicate 2 Only	1
Q9HCH3	Copine-5	Biological Replicate 2 Only	1
O95741	Copine-6	Biological Replicate 2 Only	1
Q9UBL6	Copine-7	Biological Replicate 2 Only	1
Q86YQ8	Copine-8	Biological Replicate 2 Only	1
Q8IYJ1	Copine-9	Biological Replicate 2 Only	1
O75367	Core histone macro-H2A.1	Biological Replicate 1 Only	1
Q9P0M6	Core histone macro-H2A.2	Biological Replicate 1 Only	1
P12277	Creatine kinase B-type	Biological Replicate 1 Only	1
Q15078	Cyclin-dependent kinase 5 activator 1	Biological Replicate 2 Only	1
P20674	Cytochrome c oxidase subunit 5A, mitochondrial	Biological Replicate 2 Only	1
P14854	Cytochrome c oxidase subunit 6B1	Biological Replicate 2 Only	1
Q9H7D0	Dedicator of cytokinesis protein 5	Biological Replicate 1 Only	1
Q8NF50	Dedicator of cytokinesis protein 8	Biological Replicate 2 Only	1
Q08554	Desmocollin-1	Biological Replicate 2 Only	1
Q14126	Desmoglein-2	Biological Replicate 2 Only	1
Q13574	Diacylglycerol kinase zeta	Biological Replicate 1 Only	1
Q02127	Dihydroorotate dehydrogenase	Biological Replicate 1 Only	1
P49917	DNA ligase 4	Biological Replicate 1 Only	1
P11387	DNA topoisomerase 1	Biological Replicate 1 Only	1
P48382	DNA-binding protein RFX5	Biological Replicate 1 Only	1
Q8TE73	Dynein heavy chain 5, axonemal	Biological Replicate 1 Only	1
Q8WXX0	Dynein heavy chain 7, axonemal	Biological Replicate 1 Only	1
Q96JB1	Dynein heavy chain 8, axonemal	Biological Replicate 1 Only	1
O95714	E3 ubiquitin-protein ligase HERC2	Biological Replicate 2 Only	1
O75592	E3 ubiquitin-protein ligase MYCBP2	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q5T4S7	E3 ubiquitin-protein ligase UBR4	Biological Replicate 2 Only	1
A4FU69	EF-hand calcium-binding domain-containing protein 5	Biological Replicate 1 Only	1
P68104	Elongation factor 1-alpha 1	Biological Replicate 1 Only	1
P49411	Elongation factor Tu, mitochondrial	Biological Replicate 1 Only	1
P50402	Emerin	Biological Replicate 2 Only	1
Q9NRM1	Enamelin	Biological Replicate 1 Only	1
Q9YNA8	Endogenous retrovirus group K member 19 Gag polyprotein	Biological Replicate 1 Only	1
P11021	Endoplasmic reticulum chaperone BiP	Biological 1 and 2	3
P14625	Endoplasmic reticulum chaperone BiP	Biological Replicate 1 Only	2
Q92556	Engulfment and cell motility protein 1	Biological Replicate 1 Only	1
P54764	Ephrin type-A receptor 4	Biological Replicate 1 Only	1
P54756	Ephrin type-A receptor 5	Biological Replicate 1 Only	1
P60842	Eukaryotic initiation factor 4A-I	Biological Replicate 1 Only	1
P56537	Eukaryotic translation initiation factor 6	Biological Replicate 2 Only	1
Q9NVH0	Exonuclease 3'-5' domain-containing protein 2	Biological Replicate 2 Only	1
Q9Y2L1	Exosome complex exonuclease RRP44	Biological Replicate 1 Only	1
Q96AE4	Far upstream element-binding protein 1	Biological Replicate 2 Only	1
Q8NFZ0	F-box DNA helicase 1	Biological Replicate 1 Only	1
Q2WVGJ9	Fer-1-like protein 6	Biological Replicate 2 Only	1
P21333	Filamin-A	Biological Replicate 1 Only	1
O60548	Forkhead box protein D2	Biological Replicate 1 Only	1
Q96M96	FYVE, RhoGEF and PH domain-containing protein 4	Biological Replicate 2 Only	1
P09104	Gamma-enolase	Biological Replicate 1 Only	1
Q9NQR9	Glucose-6-phosphatase 2	Biological Replicate 1 Only	1
P14314	Glucosidase 2 subunit beta	Biological Replicate 2 Only	2
P04406	Glyceraldehyde-3-phosphate dehydrogenase	Biological Replicate 1 Only	2
Q07021	Glycoprotein gC1qBP	Biological Replicate 1 Only	2
Q09328	GNT-V	Biological Replicate 2 Only	1
Q3T8J9	GON-4-like protein	Biological Replicate 1 Only	1
Q9HCN4	GPN-loop GTPase 1	Biological Replicate 2 Only	1
O60883	G-protein coupled receptor 37-like 1	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q8TBN0	Guanine nucleotide exchange factor for Rab-3A	Biological Replicate 1 Only	1
Q9UBI6	Guanine nucleotide-binding protein G	Biological Replicate 2 Only	1
P0DMV9	Heat shock 70 kDa protein 1B	Biological 1 and 2	3
P0DMV9	Heat shock 70 kDa protein 1B	Biological 1 and 2	6
P34931	Heat shock 70 kDa protein 1-like	Biological 1 and 2	2
P34932	Heat shock 70 kDa protein 4	Biological 1 and 2	2
P17066	Heat shock 70 kDa protein 6	Biological 1 and 2	2
P11142	Heat shock cognate 71 kDa protein	Biological Replicate 2 Only	1
P11142	Heat shock cognate 71 kDa protein	Biological 1 and 2	3
P07900	Heat shock protein HSP 90-alpha	Biological 1 and 2	4
P08238	Heat shock protein HSP 90-beta	Biological 1 and 2	2
P08238	Heat shock protein HSP 90-beta	Biological 1 and 2	2
P54652	Heat shock-related 70 kDa protein 2	Biological Replicate 2 Only	1
P54652	Heat shock-related 70 kDa protein 2	Biological Replicate 1 Only	1
O60243	Heparan-sulfate 6-O-sulfotransferase 1	Biological Replicate 2 Only	1
Q9UM44	HERV-H LTR-associating protein 2	Biological Replicate 1 Only	1
P61978	Heterogeneous nuclear ribonucleoprotein K	Biological Replicate 2 Only	1
P52272	Heterogeneous nuclear ribonucleoprotein M	Biological 1 and 2	2
O60506	Heterogeneous nuclear ribonucleoprotein Q	Biological Replicate 2 Only	1
Q00839	Heterogeneous nuclear ribonucleoprotein U	Biological Replicate 2 Only	1
P22626	Heterogeneous nuclear ribonucleoproteins A2/B1	Biological Replicate 1 Only	1
P07910	Heterogeneous nuclear ribonucleoproteins C1/C2	Biological Replicate 2 Only	1
P42357	Histidine ammonia-lyase	Biological Replicate 2 Only	1
Q02539	Histone H1.1	Biological Replicate 2 Only	1
P16403	Histone H1.2	Biological Replicate 2 Only	1
P16402	Histone H1.3	Biological Replicate 2 Only	1
P10412	Histone H1.4	Biological Replicate 2 Only	1
P22492	Histone H1t	Biological Replicate 2 Only	1
P0C0S8	Histone H2A type 1	Biological Replicate 1 Only	1
P04908	Histone H2A type 1-B/E	Biological Replicate 1 Only	1
Q93077	Histone H2A type 1-C	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P20671	Histone H2A type 1-D	Biological Replicate 1 Only	1
Q96KK5	Histone H2A type 1-H	Biological Replicate 1 Only	1
Q99878	Histone H2A type 1-J	Biological Replicate 1 Only	1
Q6FI13	Histone H2A type 2-A	Biological Replicate 1 Only	2
Q16777	Histone H2A type 2-C	Biological Replicate 1 Only	2
Q7L7L0	Histone H2A type 3	Biological Replicate 1 Only	1
Q9BTM1	Histone H2A.J	Biological Replicate 1 Only	1
Q71UI9	Histone H2A.V	Biological Replicate 1 Only	1
P0C0S5	Histone H2A.Z	Biological Replicate 1 Only	1
P33778	Histone H2B type 1-B	Biological 1 and 2	2
P62807	Histone H2B type 1-C/E/F/G/I	Biological 1 and 2	2
P58876	Histone H2B type 1-D	Biological 1 and 2	2
Q93079	Histone H2B type 1-H	Biological 1 and 2	2
P06899	Histone H2B type 1-J	Biological 1 and 2	2
O60814	Histone H2B type 1-K	Biological 1 and 2	2
Q99880	Histone H2B type 1-L	Biological 1 and 2	2
Q99879	Histone H2B type 1-M	Biological 1 and 2	2
Q99877	Histone H2B type 1-N	Biological 1 and 2	2
P23527	Histone H2B type 1-O	Biological 1 and 2	2
Q16778	Histone H2B type 2-E	Biological 1 and 2	2
Q5QNW6	Histone H2B type 2-F	Biological 1 and 2	2
Q8N257	Histone H2B type 3-B	Biological 1 and 2	2
P57053	Histone H2B type F-S	Biological 1 and 2	2
P68431	Histone H3.1	Biological Replicate 1 Only	1
Q16695	Histone H3.1t	Biological Replicate 1 Only	1
Q71DI3	Histone H3.2	Biological Replicate 1 Only	2
P62805	Histone H4	Biological 1 and 2	4
Q99525	Histone H4-like protein type G	Biological Replicate 2 Only	1
O96028	Histone-lysine N-methyltransferase NSD2	Biological Replicate 1 Only	1
P0CG04	Immunoglobulin lambda constant 1	Biological Replicate 2 Only	1
P0DOX8	Immunoglobulin lambda-1 light chain	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
B9A064	Immunoglobulin lambda-like polypeptide 5	Biological Replicate 2 Only	1
Q8TEX9	Importin-4	Biological Replicate 1 Only	1
O14920	Inhibitor of nuclear factor kappa-B kinase subunit beta	Biological Replicate 2 Only	1
Q14571	Inositol 1,4,5-trisphosphate receptor type 2	Biological Replicate 2 Only	1
O15327	Inositol polyphosphate 4-phosphatase type II	Biological Replicate 1 Only	1
P14735	Insulin-degrading enzyme	Biological Replicate 2 Only	1
Q9Y6M1	Insulin-like growth factor 2 mRNA-binding protein 2	Biological Replicate 2 Only	1
O00425	Insulin-like growth factor 2 mRNA-binding protein 3	Biological Replicate 2 Only	1
Q9UL03	Integrator complex subunit 6	Biological Replicate 1 Only	1
P48551	Interferon alpha/beta receptor 2	Biological Replicate 1 Only	1
P53990	IST1 homolog	Biological Replicate 2 Only	1
Q5VZ66	Janus kinase and microtubule-interacting protein 3	Biological Replicate 1 Only	1
Q2WVGJ6	Kelch-like protein 38	Biological Replicate 1 Only	1
P13645	Keratin, type I cytoskeletal 10	Biological Replicate 1 Only	3
P02533	Keratin, type I cytoskeletal 14	Biological Replicate 2 Only	1
P08779	Keratin, type I cytoskeletal 16	Biological Replicate 1 Only	1
Q04695	Keratin, type I cytoskeletal 17	Biological Replicate 2 Only	1
P35527	Keratin, type I cytoskeletal 9	Biological 1 and 2	7
P78385	Keratin, type II cuticular Hb3	Biological Replicate 2 Only	1
P78386	Keratin, type II cuticular Hb5	Biological Replicate 2 Only	1
P04264	Keratin, type II cytoskeletal 1	Biological Replicate 1 Only	3
P35908	Keratin, type II cytoskeletal 2 epidermal	Biological Replicate 1 Only	4
P12035	Keratin, type II cytoskeletal 3	Biological Replicate 1 Only	1
P13647	Keratin, type II cytoskeletal 5	Biological 1 and 2	2
P02538	Keratin, type II cytoskeletal 6A	Biological 1 and 2	3
P04259	Keratin, type II cytoskeletal 6B	Biological 1 and 2	3
P48668	Keratin, type II cytoskeletal 6C	Biological 1 and 2	3
P08729	Keratin, type II cytoskeletal 7	Biological Replicate 2 Only	1
O95678	Keratin, type II cytoskeletal 75	Biological Replicate 2 Only	1
Q5XKE5	Keratin, type II cytoskeletal 79	Biological Replicate 2 Only	1
P05787	Keratin, type II cytoskeletal 8	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q6UWL6	Kin of IRRE-like protein 2	Biological Replicate 2 Only	1
Q04760	Lactoylglutathione lyase	Biological Replicate 1 Only	1
P42166	Lamina-associated polypeptide 2, isoform alpha	Biological Replicate 1 Only	1
P42167	Lamina-associated polypeptide 2, isoforms beta/gamma	Biological Replicate 1 Only	1
Q9UK59	Lariat debranching enzyme	Biological Replicate 2 Only	1
A6NIV6	Leucine-rich repeat and IQ domain-containing protein 4	Biological Replicate 1 Only	1
P00338	L-lactate dehydrogenase A chain	Biological Replicate 2 Only	1
P36776	Lon protease homolog, mitochondrial	Biological Replicate 1 Only	1
Q9NZQ8	Long transient receptor potential channel 5	Biological Replicate 2 Only	1
O95232	Luc7-like protein 3	Biological Replicate 1 Only	1
Q6B016	Lysine-specific demethylase 4D	Biological Replicate 1 Only	1
O75151	Lysine-specific demethylase PHF2	Biological Replicate 2 Only	1
Q8NDA8	Maestro heat-like repeat-containing protein family member 1	Biological Replicate 1 Only	1
P40926	Malate dehydrogenase, mitochondrial	Biological Replicate 2 Only	1
P49006	MARCKS-related protein	Biological Replicate 2 Only	2
P30153	Medium tumor antigen-associated 61 kDa protein	Biological Replicate 2 Only	1
P55145	Mesencephalic astrocyte-derived neurotrophic factor	Biological Replicate 1 Only	1
Q8N108	Mesoderm induction early response protein 1	Biological Replicate 2 Only	1
Q86V40	Metalloprotease TIK1	Biological Replicate 1 Only	1
A6NFA1	Metalloprotease TIK2	Biological Replicate 1 Only	1
Q16891	MICOS complex subunit MIC60	Biological Replicate 1 Only	1
Q9NS69	Mitochondrial import receptor subunit TOM22 homolog	Biological 1 and 2	2
P14649	Myosin light chain 6B	Biological Replicate 2 Only	1
P60660	Myosin light polypeptide 6	Biological Replicate 2 Only	1
P35580	Myosin-10	Biological Replicate 1 Only	1
P35749	Myosin-11	Biological Replicate 1 Only	1
Q7Z406	Myosin-14	Biological Replicate 1 Only	1
P35579	Myosin-9	Biological Replicate 1 Only	1
P35579	Myosin-9	Biological 1 and 2	2
P29966	Myristoylated alanine-rich C-kinase substrate	Biological Replicate 2 Only	2
Q6BCY4	NADH-cytochrome b5 reductase 2	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
O95299	NADH-ubiquinone oxidoreductase 42 kDa subunit	Biological Replicate 1 Only	1
Q9NPH5	NADPH oxidase 4	Biological Replicate 2 Only	1
P20929	Nebulin	Biological Replicate 2 Only	1
O75113	NEDD4-binding protein 1	Biological Replicate 2 Only	1
Q9UMX5	Neudesin	Biological Replicate 2 Only	1
Q8NFP9	Neurobeachin	Biological Replicate 1 Only	1
P07197	Neurofilament medium polypeptide	Biological 1 and 2	3
Q01973	Neurotrophic tyrosine kinase, receptor-related 1	Biological Replicate 2 Only	1
Q15233	Non-POU domain-containing octamer-binding protein	Biological Replicate 1 Only	1
P49321	Nuclear autoantigenic sperm protein	Biological Replicate 2 Only	2
Q9Y266	Nuclear migration protein nudC	Biological Replicate 2 Only	1
P67809	Nuclease-sensitive element-binding protein 1	Biological 1 and 2	2
P19338	Nucleolin	Biological Replicate 1 Only	1
P15531	Nucleoside diphosphate kinase A	Biological 1 and 2	2
P22392	Nucleoside diphosphate kinase B	Biological Replicate 2 Only	1
Q99733	Nucleosome assembly protein 1-like 4	Biological Replicate 2 Only	1
Q13415	Origin recognition complex subunit 1	Biological Replicate 1 Only	1
Q9Y5N6	Origin recognition complex subunit 6	Biological Replicate 1 Only	1
Q3ZCN5	Otogelin-like protein	Biological Replicate 1 Only	1
P17066	P17066	Biological Replicate 2 Only	1
P31946	P31946	Biological Replicate 2 Only	1
Q8IUH4	Palmitoyltransferase ZDHHC13	Biological Replicate 1 Only	1
A0A0J9YXQ4	Paraneoplastic antigen Ma6E	Biological Replicate 1 Only	1
O75475	PC4 and SFRS1-interacting protein	Biological Replicate 2 Only	1
Q96AY3	Peptidyl-prolyl cis-trans isomerase FKBP10	Biological 1 and 2	2
O60664	Perilipin-3	Biological Replicate 2 Only	1
Q00G26	Perilipin-5	Biological Replicate 2 Only	1
P41219	Peripherin	Biological Replicate 1 Only	1
Q06830	Peroxiredoxin-1	Biological 1 and 2	2
Q8NDX1	PH and SEC7 domain-containing protein 4	Biological Replicate 2 Only	1
Q13371	Phosducin-like protein	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q00325	Phosphate carrier protein, mitochondrial	Biological Replicate 2 Only	1
Q16822	Phosphoenolpyruvate carboxykinase [GTP]	Biological Replicate 2 Only	1
P18669	Phosphoglycerate mutase 1	Biological Replicate 2 Only	1
P15259	Phosphoglycerate mutase 2	Biological Replicate 2 Only	1
Q9NRQ2	Phospholipid scramblase 4	Biological Replicate 1 Only	1
Q8NB49	Phospholipid-transporting ATPase IG	Biological Replicate 1 Only	1
Q8NC51	Plasminogen activator inhibitor 1 RNA-binding protein	Biological Replicate 1 Only	2
Q14651	Plastin-1	Biological Replicate 2 Only	1
P13797	Plastin-3	Biological Replicate 2 Only	1
Q9HAU0	Pleckstrin homology domain-containing family A member 5	Biological Replicate 2 Only	1
Q15365	Poly(rC)-binding protein 1	Biological 1 and 2	2
Q15365	Poly(rC)-binding protein 1	Biological Replicate 1 Only	1
Q15366	Poly(rC)-binding protein 2	Biological 1 and 2	2
P57721	Poly(rC)-binding protein 3	Biological 1 and 2	2
Q9UKA9	Polypyrimidine tract-binding protein 2	Biological Replicate 2 Only	1
P0CG47	Polyubiquitin-B	Biological Replicate 2 Only	1
P0CG48	Polyubiquitin-C	Biological Replicate 2 Only	1
Q96PR1	Potassium voltage-gated channel subfamily C member 2	Biological Replicate 2 Only	1
P54707	Potassium-transporting ATPase alpha chain 2	Biological Replicate 1 Only	1
Q6S8J3	POTE ankyrin domain family member E	Biological Replicate 1 Only	1
A5A3E0	POTE ankyrin domain family member F	Biological Replicate 1 Only	1
Q13029	PR domain zinc finger protein 2	Biological Replicate 1 Only	1
Q7L3T8	Probable proline--tRNA ligase, mitochondrial	Biological Replicate 1 Only	1
Q9HCU5	Prolactin regulatory element-binding protein	Biological Replicate 2 Only	1
Q14914	Prostaglandin reductase 1	Biological Replicate 1 Only	1
P28066	Proteasome subunit alpha type-5	Biological 1 and 2	2
Q8IVF2	Protein AHNAK2	Biological Replicate 2 Only	2
Q9ULJ1	Protein BCAP	Biological Replicate 2 Only	1
Q9Y2V0	Protein C15orf41	Biological Replicate 2 Only	1
P07237	Protein disulfide-isomerase	Biological 1 and 2	3
P30101	Protein disulfide-isomerase A3	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P13667	Protein disulfide-isomerase A4	Biological Replicate 2 Only	1
Q9C005	Protein dpy-30 homolog	Biological Replicate 2 Only	1
P49257	Protein ERGIC-53	Biological Replicate 1 Only	1
Q96C01	Protein FAM136A	Biological Replicate 2 Only	1
A8MVW0	Protein FAM171A2	Biological Replicate 1 Only	1
A2RU67	Protein FAM234B	Biological Replicate 1 Only	1
Q92520	Protein FAM3C	Biological Replicate 2 Only	1
Q8N8X9	Protein mab-21-like 3	Biological Replicate 2 Only	1
P61244	Protein max	Biological Replicate 1 Only	1
Q460N3	Protein mono-ADP-ribosyltransferase PARP15	Biological Replicate 1 Only	1
Q14160	Protein scribble homolog	Biological Replicate 1 Only	1
Q9Y5U2	Protein TSSC4	Biological Replicate 2 Only	1
P49221	Protein-glutamine gamma-glutamyltransferase 4	Biological Replicate 1 Only	1
Q9BYX7	Putative beta-actin-like protein 3	Biological Replicate 1 Only	1
Q5VTE0	Putative elongation factor 1-alpha-like 3	Biological Replicate 1 Only	1
P48741	Putative heat shock 70 kDa protein 7	Biological 1 and 2	2
Q58FG1	Putative heat shock protein HSP 90-alpha A4	Biological Replicate 2 Only	1
Q58FG1	Putative heat shock protein HSP 90-alpha A4	Biological Replicate 1 Only	1
Q58FF8	Putative heat shock protein HSP 90-beta 2	Biological Replicate 2 Only	1
Q58FF6	Putative heat shock protein HSP 90-beta 4	Biological Replicate 2 Only	1
Q58FF7	Putative heat shock protein HSP 90-beta-3	Biological 1 and 2	2
Q6P575	Putative inactive beta-glucuronidase protein GUSBP11	Biological Replicate 2 Only	1
A6NCN2	Putative keratin-87 protein	Biological Replicate 2 Only	1
O60361	Putative nucleoside diphosphate kinase	Biological Replicate 2 Only	1
Q92928	Putative Ras-related protein Rab-1C	Biological Replicate 1 Only	1
Q495Z4	Putative uncharacterized protein ASB16-AS1	Biological Replicate 1 Only	1
Q5TG92	Putative uncharacterized protein C1orf195	Biological Replicate 2 Only	1
Q6ZRU5	Putative uncharacterized protein FLJ46089	Biological Replicate 1 Only	1
Q9P2R3	Rabankyrin-5	Biological Replicate 2 Only	1
P43487	Ran-specific GTPase-activating protein	Biological Replicate 2 Only	1
P46940	Ras GTPase-activating-like protein IQGAP1	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q13576	Ras GTPase-activating-like protein IQGAP2	Biological Replicate 1 Only	1
Q86VI3	Ras GTPase-activating-like protein IQGAP3	Biological Replicate 1 Only	1
P62820	Ras-related protein Rab-1A	Biological Replicate 2 Only	1
Q9H0U4	Ras-related protein Rab-1B	Biological Replicate 1 Only	1
Q86X27	Ras-specific guanine nucleotide-releasing factor RalGPS2	Biological Replicate 1 Only	1
P10586	Receptor-type tyrosine-protein phosphatase F	Biological Replicate 2 Only	1
O43307	Rho guanine nucleotide exchange factor 9	Biological Replicate 2 Only	1
A6NIN4	RING finger protein 227	Biological Replicate 2 Only	1
Q9H0A0	RNA cytidine acetyltransferase	Biological Replicate 2 Only	1
Q9Y5S9	RNA-binding protein 8A	Biological Replicate 1 Only	1
Q01844	RNA-binding protein EWS	Biological Replicate 2 Only	1
P35637	RNA-binding protein FUS	Biological Replicate 1 Only	1
Q92736	Ryanodine receptor 2	Biological Replicate 1 Only	1
Q15413	Ryanodine receptor 3	Biological Replicate 1 Only	1
Q15413	Ryanodine receptor 3	Biological 1 and 2	2
O43865	S-adenosylhomocysteine hydrolase-like protein 1	Biological Replicate 1 Only	1
Q9NSI8	SAM domain-containing protein SAMSN-1	Biological Replicate 2 Only	1
Q6UWB4	Serine protease 55	Biological Replicate 1 Only	1
Q8TDC3	Serine/threonine-protein kinase BRSK1	Biological Replicate 1 Only	1
Q8IWK3	Serine/threonine-protein kinase BRSK2	Biological Replicate 1 Only	1
Q9Y5S2	Serine/threonine-protein kinase MRCK beta	Biological 1 and 2	2
Q9H4A3	Serine/threonine-protein kinase WNK1	Biological Replicate 1 Only	1
Q9BYP7	Serine/threonine-protein kinase WNK3	Biological Replicate 2 Only	1
P50454	Serpin H1	Biological Replicate 2 Only	1
P11831	Serum response factor	Biological Replicate 1 Only	1
Q9Y3L3	SH3 domain-binding protein 1	Biological Replicate 2 Only	2
A0MZ66	Shootin-1	Biological Replicate 2 Only	1
P62306	Small nuclear ribonucleoprotein F	Biological Replicate 1 Only	1
P62316	Small nuclear ribonucleoprotein Sm D2	Biological Replicate 2 Only	1
A6NHR9	SMC hinge domain-containing protein 1	Biological Replicate 1 Only	1
Q07890	Son of sevenless homolog 2	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q9H3E2	Sorting nexin-25	Biological Replicate 2 Only	1
Q9Y5X3	Sorting nexin-5	Biological Replicate 1 Only	1
Q9Y4P9	Sperm flagellar protein 1	Biological Replicate 1 Only	1
Q15459	Splicing factor 3A subunit 1	Biological 1 and 2	2
P23246	Splicing factor, proline- and glutamine-rich	Biological Replicate 1 Only	1
Q9P2P6	StAR-related lipid transfer protein 9	Biological Replicate 2 Only	1
P38646	Stress-70 protein, mitochondrial	Biological Replicate 2 Only	4
P31948	Stress-induced-phosphoprotein 1	Biological Replicate 2 Only	1
O95347	Structural maintenance of chromosomes protein 2	Biological Replicate 1 Only	1
P78524	Suppression of tumorigenicity 5 protein	Biological Replicate 2 Only	1
O15056	Synaptojanin-2	Biological Replicate 2 Only	1
O95721	Synaptosomal-associated protein 29	Biological Replicate 2 Only	1
O15061	Synemin	Biological Replicate 2 Only	2
Q96DN5	TBC1 domain family member 31	Biological Replicate 1 Only	1
O95759	TBC1 domain family member 8	Biological Replicate 1 Only	1
P50991	T-complex protein 1 subunit delta	Biological Replicate 2 Only	1
P40227	T-complex protein 1 subunit zeta	Biological Replicate 1 Only	1
Q92526	T-complex protein 1 subunit zeta-2	Biological Replicate 1 Only	1
Q8WWU5	T-complex protein 11 homolog	Biological Replicate 2 Only	1
Q2MV58	Tectonic-1	Biological Replicate 1 Only	1
Q9BXT5	Testis-expressed protein 15	Biological Replicate 2 Only	1
Q96AE7	Tetratricopeptide repeat protein 17	Biological Replicate 2 Only	1
Q6NT89	TMF-regulated nuclear protein 1	Biological Replicate 1 Only	1
Q9ULX9	Transcription factor MafF	Biological Replicate 2 Only	1
Q3SY56	Transcription factor Sp6	Biological Replicate 2 Only	1
Q13263	Transcription intermediary factor 1-beta	Biological Replicate 2 Only	1
P46100	Transcriptional regulator ATRX	Biological Replicate 1 Only	1
P62995	Transformer-2 protein homolog beta	Biological Replicate 1 Only	1
P37802	Transgelin-2	Biological Replicate 1 Only	1
P37802	Transgelin-2	Biological Replicate 2 Only	3
Q9UI15	Transgelin-3	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q9Y5S1	Transient receptor potential cation channel subfamily V member 2	Biological Replicate 2 Only	1
P57088	Transmembrane protein 33	Biological Replicate 1 Only	1
Q9GZU3	Transmembrane protein 39B	Biological Replicate 2 Only	1
Q9NUR3	Transmembrane protein 74B	Biological Replicate 1 Only	1
Q9P0T7	Transmembrane protein 9	Biological Replicate 2 Only	1
P07478	Trypsin-2	Biological Replicate 1 Only	1
P68366	Tubulin alpha-4A chain	Biological Replicate 1 Only	1
A6NNZ2	Tubulin beta 8B	Biological 1 and 2	3
P07437	Tubulin beta chain	Biological 1 and 2	7
Q9H4B7	Tubulin beta-1 chain	Biological 1 and 2	2
Q13885	Tubulin beta-2A chain	Biological 1 and 2	6
Q9BVA1	Tubulin beta-2B chain	Biological 1 and 2	6
Q13509	Tubulin beta-3 chain	Biological 1 and 2	4
Q13509	Tubulin beta-3 chain	Biological 1 and 2	2
P04350	Tubulin beta-4A chain	Biological 1 and 2	5
P04350	Tubulin beta-4A chain	Biological 1 and 2	3
P68371	Tubulin beta-4B chain	Biological 1 and 2	8
Q9BUF5	Tubulin beta-6 chain	Biological 1 and 2	3
Q3ZCM7	Tubulin beta-8 chain	Biological 1 and 2	5
P55327	Tumor protein D52	Biological Replicate 2 Only	1
P07101	Tyrosine 3-monooxygenase	Biological Replicate 2 Only	1
Q9UMX0	Ubiquilin-1	Biological Replicate 2 Only	1
Q9UHD9	Ubiquilin-2	Biological Replicate 2 Only	1
Q9NRR5	Ubiquilin-4	Biological Replicate 2 Only	1
O75317	Ubiquitin carboxyl-terminal hydrolase 12	Biological Replicate 2 Only	1
Q9Y5T5	Ubiquitin carboxyl-terminal hydrolase 16	Biological Replicate 2 Only	1
C9JJH3	Ubiquitin carboxyl-terminal hydrolase 17-like protein 10	Biological Replicate 1 Only	1
Q96K76	Ubiquitin carboxyl-terminal hydrolase 47	Biological Replicate 2 Only	1
P62979	Ubiquitin-40S ribosomal protein S27a	Biological Replicate 2 Only	1
P62987	Ubiquitin-60S ribosomal protein L40	Biological Replicate 2 Only	1
Q15819	Ubiquitin-conjugating enzyme E2 variant 2	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P22314	Ubiquitin-like modifier-activating enzyme 1	Biological Replicate 1 Only	2
Q68DL7	Uncharacterized protein C18orf63	Biological Replicate 1 Only	1
Q5T230	Undifferentiated embryonic cell transcription factor 1	Biological Replicate 1 Only	1
O95399	Urotensin-2	Biological Replicate 2 Only	1
O75379	Vesicle-associated membrane protein 4	Biological Replicate 2 Only	1
P08670	Vimentin	Biological Replicate 1 Only	3
P18206	Vinculin	Biological Replicate 2 Only	1
P04275	von Willebrand factor	Biological Replicate 1 Only	2
O00534	von Willebrand factor A domain-containing protein 5A	Biological Replicate 1 Only	1
P10073	Zinc finger and SCAN domain-containing protein 22	Biological Replicate 2 Only	1
Q8WYQ9	Zinc finger CCHC domain-containing protein 14	Biological Replicate 1 Only	1
P52740	Zinc finger protein 132	Biological Replicate 1 Only	1
Q86Y25	Zinc finger protein 354C	Biological Replicate 1 Only	1
Q9BX82	Zinc finger protein 471	Biological Replicate 1 Only	1
Q96MX3	Zinc finger protein 48	Biological Replicate 2 Only	1
Q96CX3	Zinc finger protein 501	Biological Replicate 2 Only	1
Q9C0D4	Zinc finger protein 518B	Biological Replicate 1 Only	1
Q86UE3	Zinc finger protein 546	Biological Replicate 2 Only	1
Q5JPB2	Zinc finger protein 831	Biological Replicate 2 Only	1
Q96IR2	Zinc finger protein 845	Biological Replicate 1 Only	1
P0CJ79	Zinc finger protein 888	Biological Replicate 1 Only	1
Q13129	Zinc finger protein Rlf	Biological Replicate 2 Only	1

Table S4. IC-FPOP oxidatively modified proteins in 100 mM H₂O₂ PIXY

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P61604	10 kDa heat shock protein, mitochondrial	Biological Replicate 1 Only	2
P31946	14-3-3 protein beta/alpha	Biological Replicate 1 Only	1
P31946	14-3-3 protein beta/alpha	Biological Replicate 1 Only	2
P62258	14-3-3 protein epsilon	Biological 1 and 2	5
P61978	14-3-3 protein epsilon	Biological 1 and 2	4
P27348	14-3-3 protein theta	Biological Replicate 1 Only	1
P27348	14-3-3 protein theta	Biological Replicate 1 Only	2
P63104	14-3-3 protein zeta/delta	Biological 1 and 2	5
Q99460	26S proteasome non-ATPase regulatory subunit 1	Biological Replicate 2 Only	1
O43242	26S proteasome non-ATPase regulatory subunit 3	Biological Replicate 2 Only	1
P17980	26S proteasome regulatory subunit 6A	Biological Replicate 1 Only	3
P62195	26S proteasome regulatory subunit 8	Biological Replicate 1 Only	1
P82921	28S ribosomal protein S21, mitochondrial	Biological Replicate 1 Only	1
P52815	39S ribosomal protein L12, mitochondrial	Biological Replicate 2 Only	1
P31937	3-hydroxyisobutyrate dehydrogenase, mitochondrial	Biological Replicate 1 Only	1
P62263	40S ribosomal protein S14	Biological Replicate 1 Only	2
P62841	40S ribosomal protein S15	Biological Replicate 1 Only	1
P08708	40S ribosomal protein S17	Biological Replicate 1 Only	1
P38159	40S ribosomal protein S19	Biological Replicate 1 Only	2
P63220	40S ribosomal protein S21	Biological 1 and 2	3
P62854	40S ribosomal protein S26	Biological 1 and 2	2
P62857	40S ribosomal protein S28	Biological Replicate 1 Only	1
P61247	40S ribosomal protein S3a	Biological Replicate 2 Only	1
P62753	40S ribosomal protein S6	Biological Replicate 2 Only	1
P22557	5-aminolevulinic acid synthase, erythroid-specific, mitochondrial	Biological Replicate 2 Only	1
P10809	60 kDa heat shock protein, mitochondrial	Biological Replicate 1 Only	4
P05386	60S acidic ribosomal protein P1	Biological 1 and 2	2
P05387	60S acidic ribosomal protein P2	Biological Replicate 2 Only	1
P05387	60S acidic ribosomal protein P2	Biological 1 and 2	2
P26373	60S ribosomal protein L13	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P83731	60S ribosomal protein L24	Biological 1 and 2	2
P47914	60S ribosomal protein L29	Biological Replicate 1 Only	1
P39687	Acidic leucine-rich nuclear phosphoprotein 32 family member A	Biological Replicate 1 Only	1
P39019	Acidic leucine-rich nuclear phosphoprotein 32 family member A	Biological Replicate 1 Only	1
Q92688	Acidic leucine-rich nuclear phosphoprotein 32 family member B	Biological Replicate 1 Only	1
Q9BTT0	Acidic leucine-rich nuclear phosphoprotein 32 family member E	Biological Replicate 2 Only	1
Q8N556	Actin filament-associated protein 1	Biological 1 and 2	2
P68032	Actin, alpha cardiac muscle 1	Biological 1 and 2	9
P68133	Actin, alpha skeletal muscle	Biological 1 and 2	9
P62736	Actin, aortic smooth muscle	Biological 1 and 2	8
P60709	Actin, cytoplasmic 1	Biological 1 and 2	9
P63261	Actin, cytoplasmic 2	Biological 1 and 2	14
P63267	Actin, gamma-enteric smooth muscle	Biological Replicate 1 Only	2
P63267	Actin, gamma-enteric smooth muscle	Biological 1 and 2	6
O96019	Actin-like protein 6A	Biological Replicate 1 Only	1
Q9H568	Actin-like protein 8	Biological Replicate 2 Only	1
P53999	Activated RNA polymerase II transcriptional coactivator p15	Biological 1 and 2	2
O14561	Acyl carrier protein, mitochondrial	Biological 1 and 2	2
P07108	Acyl-CoA-binding protein	Biological Replicate 2 Only	1
Q5H913	ADP-ribosylation factor-like protein 13A	Biological Replicate 2 Only	1
Q99996	A-kinase anchor protein 9	Biological Replicate 1 Only	1
P02765	Alpha-2-HS-glycoprotein	Biological Replicate 1 Only	1
P35609	Alpha-actinin-2	Biological Replicate 1 Only	1
O43707	Alpha-actinin-4	Biological Replicate 1 Only	3
O43768	Alpha-endosulfine	Biological Replicate 2 Only	1
P02771	Alpha-fetoprotein	Biological 1 and 2	3
P40222	Alpha-taxilin	Biological Replicate 1 Only	1
Q12904	Aminoacyl tRNA synthase complex-interacting multifunctional protein 1	Biological Replicate 1 Only	1
P09525	Annexin A4	Biological Replicate 2 Only	1
Q03519	Antigen peptide transporter 2	Biological Replicate 2 Only	1
P01008	Antithrombin-III	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
O94973	AP-2 complex subunit alpha-2	Biological Replicate 2 Only	1
P04114	Apolipoprotein B-100	Biological Replicate 1 Only	1
Q07812	Apoptosis regulator BAX	Biological 1 and 2	3
P11511	Aromatase	Biological Replicate 2 Only	1
A6NEK1	Arrestin domain-containing protein 5	Biological Replicate 2 Only	1
P06576	ATP synthase subunit beta, mitochondrial	Biological 1 and 2	5
O75947	ATP synthase subunit d, mitochondrial	Biological Replicate 1 Only	1
P18859	ATP synthase-coupling factor 6, mitochondrial	Biological Replicate 1 Only	1
Q96J66	ATP-binding cassette sub-family C member 11	Biological Replicate 1 Only	1
Q16740	ATP-dependent Clp protease proteolytic subunit, mitochondrial	Biological 1 and 2	2
O00571	ATP-dependent RNA helicase DDX3X	Biological Replicate 2 Only	1
O15523	ATP-dependent RNA helicase DDX3Y	Biological Replicate 2 Only	1
Q81VW6	AT-rich interactive domain-containing protein 3B	Biological Replicate 2 Only	1
Q96BY7	Autophagy-related protein 2 homolog B	Biological Replicate 2 Only	1
Q8N183	B17.2L	Biological Replicate 1 Only	1
Q9P281	BAH and coiled-coil domain-containing protein 1	Biological Replicate 1 Only	1
O75531	Barrier-to-autointegration factor	Biological Replicate 1 Only	1
P35613	Basigin	Biological 1 and 2	2
Q4VC05	B-cell CLL/lymphoma 7 protein family member A	Biological Replicate 1 Only	1
P51572	B-cell receptor-associated protein 31	Biological 1 and 2	2
Q9NYF8	Bcl-2-associated transcription factor 1	Biological Replicate 1 Only	1
Q562R1	Beta-actin-like protein 2	Biological 1 and 2	2
Q8NCI6	Beta-galactosidase-1-like protein 3	Biological Replicate 1 Only	1
P55957	BH3-interacting domain death agonist	Biological Replicate 1 Only	1
P07814	Bifunctional glutamate/proline--tRNA ligase	Biological Replicate 1 Only	1
P80723	Brain acid soluble protein 1	Biological 1 and 2	4
Q96CX2	BTB/POZ domain-containing protein KCTD12	Biological Replicate 1 Only	1
P27708	CAD protein	Biological Replicate 2 Only	1
Q9HB71	Calcyclin-binding protein	Biological Replicate 2 Only	2
P0DP25	Calmodulin-3	Biological Replicate 2 Only	3
P27824	Calnexin	Biological 1 and 2	4

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P20810	Calpastatin	Biological Replicate 2 Only	1
Q15417	Calponin-3	Biological 1 and 2	2
P27797	Calreticulin	Biological 1 and 2	4
O43852	Calumenin	Biological 1 and 2	6
P56211	cAMP-regulated phosphoprotein 19	Biological Replicate 2 Only	1
P78358	Cancer/testis antigen 1	Biological Replicate 2 Only	1
O75638	Cancer/testis antigen 2	Biological Replicate 2 Only	1
Q14444	Caprin-1	Biological Replicate 1 Only	1
P16152	Carbonyl reductase	Biological Replicate 2 Only	1
O75976	Carboxypeptidase D	Biological Replicate 1 Only	1
P07339	Cathepsin D	Biological Replicate 2 Only	1
Q96F85	CB1 cannabinoid receptor-interacting protein 1	Biological Replicate 2 Only	1
Q92600	CCR4-NOT transcription complex subunit 9	Biological Replicate 2 Only	1
Q00587	Cdc42 effector protein 1	Biological Replicate 1 Only	1
O15182	Centrin-3	Biological Replicate 1 Only	1
Q8N137	Centrobin	Biological Replicate 2 Only	1
P49454	Centromere protein F	Biological Replicate 1 Only	1
Q9C0D2	Centrosomal protein of 295 kDa	Biological Replicate 2 Only	1
O43633	Charged multivesicular body protein 2a	Biological Replicate 1 Only	1
Q9H444	Charged multivesicular body protein 4b	Biological Replicate 1 Only	1
Q8TDX6	Chondroitin sulfate N-acetylgalactosaminyltransferase 1	Biological Replicate 1 Only	1
Q13111	Chromatin assembly factor 1 subunit A	Biological Replicate 1 Only	1
Q8IXM2	Chromatin complexes subunit BAP18	Biological Replicate 1 Only	1
Q9Y3Y2	Chromatin target of PRMT1 protein	Biological 1 and 2	2
Q8TBY9	Cilia- and flagella-associated protein 251	Biological Replicate 2 Only	1
Q14677	Clathrin interactor 1	Biological Replicate 2 Only	1
Q16630	Cleavage and polyadenylation specificity factor subunit 6	Biological 1 and 2	2
P33240	Cleavage stimulation factor subunit 2	Biological Replicate 1 Only	1
Q9H0L4	Cleavage stimulation factor subunit 2 tau variant	Biological Replicate 1 Only	2
P00451	Coagulation factor VIII	Biological Replicate 2 Only	1
P23528	Cofilin-1	Biological Replicate 2 Only	3

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q9Y281	Cofilin-2	Biological Replicate 2 Only	1
Q16204	Coiled-coil domain-containing protein 6	Biological Replicate 1 Only	1
P02452	Collagen alpha-1	Biological 1 and 2	2
P02458	Collagen alpha-1	Biological Replicate 2 Only	1
P12107	Collagen alpha-1	Biological Replicate 1 Only	1
Q9BXS0	Collagen alpha-1	Biological Replicate 1 Only	1
Q07021	Complement component 1 Q subcomponent-binding protein	Biological Replicate 2 Only	4
Q9BXR6	Complement factor H-related protein 5	Biological Replicate 1 Only	1
Q9NX14	Complex I-ESSS	Biological Replicate 1 Only	1
P42695	Condensin-2 complex subunit D3	Biological Replicate 1 Only	1
Q86X12	Condensin-2 complex subunit G2	Biological Replicate 2 Only	1
Q9H9Q2	COP9 signalosome complex subunit 7b	Biological Replicate 1 Only	1
P78310	Coxsackievirus and adenovirus receptor	Biological Replicate 1 Only	1
P12277	Creatine kinase B-type	Biological 1 and 2	3
P12532	Creatine kinase U-type, mitochondrial	Biological Replicate 2 Only	1
Q00536	Cyclin-dependent kinase 16	Biological Replicate 2 Only	1
Q00537	Cyclin-dependent kinase 17	Biological Replicate 2 Only	1
O60563	Cyclin-T1	Biological Replicate 2 Only	1
Q16527	Cysteine and glycine-rich protein 2	Biological Replicate 1 Only	1
P49589	Cysteine--tRNA ligase, cytoplasmic	Biological Replicate 1 Only	1
O43169	Cytochrome b5 type B	Biological Replicate 2 Only	1
P31930	Cytochrome b-c1 complex subunit 1, mitochondrial	Biological Replicate 2 Only	1
P00403	Cytochrome c oxidase subunit 2	Biological Replicate 1 Only	1
P13073	Cytochrome c oxidase subunit 4 isoform 1, mitochondrial	Biological 1 and 2	3
P20674	Cytochrome c oxidase subunit 5A, mitochondrial	Biological 1 and 2	2
P08574	Cytochrome c1, heme protein, mitochondrial	Biological Replicate 2 Only	1
Q14204	Cytoplasmic dynein 1 heavy chain 1	Biological Replicate 2 Only	1
O43639	Cytoplasmic protein NCK2	Biological Replicate 1 Only	1
Q07065	Cytoskeleton-associated protein 4	Biological Replicate 1 Only	3
Q8NFI3	Cytosolic endo-beta-N-acetylglucosaminidase	Biological Replicate 2 Only	1
Q5BKZ1	DBIRD complex subunit ZNF326	Biological 1 and 2	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q13011	Delta	Biological Replicate 1 Only	1
P17661	Desmin	Biological Replicate 1 Only	1
P17661	Desmin	Biological Replicate 1 Only	1
Q02413	Desmoglein-1	Biological Replicate 2 Only	2
Q13443	Disintegrin and metalloproteinase domain-containing protein 9	Biological Replicate 1 Only	1
Q9Y485	DmX-like protein 1	Biological Replicate 1 Only	1
Q16531	DNA damage-binding protein 1	Biological Replicate 2 Only	1
P18858	DNA ligase 1	Biological Replicate 1 Only	1
Q07864	DNA polymerase epsilon catalytic subunit A	Biological Replicate 2 Only	1
Q9NRF9	DNA polymerase epsilon subunit 3	Biological Replicate 1 Only	1
P11387	DNA topoisomerase 1	Biological Replicate 2 Only	1
O15446	DNA-directed RNA polymerase I subunit RPA34	Biological Replicate 1 Only	1
Q9UBS4	DnaJ homolog subfamily B member 11	Biological Replicate 1 Only	1
Q99615	DnaJ homolog subfamily C member 7	Biological Replicate 1 Only	2
O60216	Double-strand-break repair protein rad21 homolog	Biological Replicate 1 Only	1
P78563	Double-stranded RNA-specific editase 1	Biological Replicate 2 Only	1
Q9H1R2	Dual specificity protein phosphatase 15	Biological Replicate 2 Only	1
Q13561	Dynactin subunit 2	Biological Replicate 2 Only	1
Q9HCE7	E3 ubiquitin-protein ligase SMURF1	Biological Replicate 2 Only	1
Q9HAU4	E3 ubiquitin-protein ligase SMURF2	Biological Replicate 2 Only	1
Q14669	E3 ubiquitin-protein ligase TRIP12	Biological Replicate 2 Only	1
Q8IUD2	ELKS/Rab6-interacting/CAST family member 1	Biological Replicate 2 Only	1
P68104	Elongation factor 1-alpha 1	Biological Replicate 2 Only	1
P24534	Elongation factor 1-beta	Biological Replicate 1 Only	1
P29692	Elongation factor 1-delta	Biological Replicate 2 Only	2
P13639	Elongation factor 2	Biological Replicate 2 Only	2
P13639	Elongation factor 2	Biological Replicate 2 Only	2
Q8N8Q3	Endonuclease V	Biological Replicate 1 Only	1
Q99962	Endophilin-A1	Biological Replicate 1 Only	1
P11021	Endoplasmic reticulum chaperone BiP	Biological 1 and 2	6
P11021	Endoplasmic reticulum chaperone BiP	Biological 1 and 2	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q9BS26	Endoplasmic reticulum resident protein 44	Biological 1 and 2	2
P14625	Endoplasmin	Biological 1 and 2	7
P42892	Endothelin-converting enzyme 1	Biological Replicate 2 Only	1
Q92556	Engulfment and cell motility protein 1	Biological Replicate 1 Only	1
P84090	Enhancer of rudimentary homolog	Biological Replicate 1 Only	1
Q9Y6I3	Epsin-1	Biological Replicate 1 Only	1
P27105	Erythrocyte band 7 integral membrane protein	Biological Replicate 1 Only	1
P03372	Estrogen receptor	Biological Replicate 2 Only	1
P60842	Eukaryotic initiation factor 4A-I	Biological Replicate 2 Only	1
P05198	Eukaryotic translation initiation factor 2 subunit 1	Biological Replicate 2 Only	1
Q14152	Eukaryotic translation initiation factor 3 subunit A	Biological Replicate 2 Only	1
O00303	Eukaryotic translation initiation factor 3 subunit F	Biological Replicate 1 Only	2
Q13347	Eukaryotic translation initiation factor 3 subunit I	Biological Replicate 2 Only	1
Q13541	Eukaryotic translation initiation factor 4E-binding protein 1	Biological Replicate 1 Only	1
O60841	Eukaryotic translation initiation factor 5B	Biological Replicate 2 Only	1
Q9Y2L1	Exosome complex exonuclease RRP44	Biological Replicate 2 Only	1
P55060	Exportin-2	Biological Replicate 2 Only	1
Q9Y5B9	FACT complex subunit SPT16	Biological Replicate 2 Only	1
Q92945	Far upstream element-binding protein 2	Biological 1 and 2	4
P14324	Farnesyl pyrophosphate synthase	Biological Replicate 2 Only	1
Q9UKA2	F-box/LRR-repeat protein 4	Biological Replicate 2 Only	1
Q5D862	Filaggrin-2	Biological Replicate 2 Only	1
Q14315	Filamin-C	Biological Replicate 2 Only	1
B1AJZ9	Forkhead-associated domain-containing protein 1	Biological Replicate 1 Only	1
P51114	Fragile X mental retardation syndrome-related protein 1	Biological Replicate 2 Only	1
Q9H461	Frizzled-8	Biological Replicate 2 Only	1
P04075	Fructose-bisphosphate aldolase A	Biological Replicate 2 Only	1
O75496	Geminin	Biological Replicate 2 Only	1
P18074	General transcription and DNA repair factor IIH helicase subunit XPD	Biological Replicate 1 Only	1
O60763	General vesicular transport factor p115	Biological Replicate 1 Only	1
P14314	Glucosidase 2 subunit beta	Biological 1 and 2	5

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P07203	Glutathione peroxidase 1	Biological Replicate 1 Only	2
P21266	Glutathione S-transferase Mu 3	Biological Replicate 1 Only	1
P09211	Glutathione S-transferase P	Biological Replicate 1 Only	1
P04406	Glyceraldehyde-3-phosphate dehydrogenase	Biological 1 and 2	2
P46976	Glycogenin-1	Biological Replicate 2 Only	1
Q13956	GMP-PDE gamma	Biological Replicate 1 Only	1
O00461	Golgi integral membrane protein 4	Biological Replicate 1 Only	1
Q08378	Golgin subfamily A member 3	Biological Replicate 1 Only	1
Q13439	Golgin subfamily A member 4	Biological Replicate 1 Only	1
Q14789	Golgin subfamily B member 1	Biological Replicate 1 Only	1
Q6Y7W6	GRB10-interacting GYF protein 2	Biological Replicate 1 Only	1
Q9HAV7	GrpE protein homolog 1, mitochondrial	Biological Replicate 1 Only	1
Q14C86	GTPase-activating protein and VPS9 domain-containing protein 1	Biological Replicate 2 Only	1
Q8TBN0	Guanine nucleotide exchange factor for Rab-3A	Biological Replicate 2 Only	1
P0DMV9	Heat shock 70 kDa protein 1B	Biological Replicate 2 Only	3
P0DMV9	Heat shock 70 kDa protein 1B	Biological 1 and 2	5
P34931	Heat shock 70 kDa protein 1-like	Biological 1 and 2	7
P34932	Heat shock 70 kDa protein 4	Biological 1 and 2	3
P17066	Heat shock 70 kDa protein 6	Biological Replicate 2 Only	3
P11142	Heat shock cognate 71 kDa protein	Biological 1 and 2	4
P11142	Heat shock cognate 71 kDa protein	Biological 1 and 2	3
O75506	Heat shock factor-binding protein 1	Biological Replicate 1 Only	1
P07900	Heat shock protein HSP 90-alpha	Biological Replicate 2 Only	4
P07900	Heat shock protein HSP 90-alpha	Biological Replicate 2 Only	4
P08238	Heat shock protein HSP 90-beta	Biological 1 and 2	3
P08238	Heat shock protein HSP 90-beta	Biological Replicate 2 Only	1
P54652	Heat shock-related 70 kDa protein 2	Biological Replicate 2 Only	1
P54652	Heat shock-related 70 kDa protein 2	Biological 1 and 2	2
P09601	Heme oxygenase 1	Biological Replicate 1 Only	1
P51858	Hepatoma-derived growth factor	Biological 1 and 2	4
Q99729	Heterogeneous nuclear ribonucleoprotein A/B	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P09651	Heterogeneous nuclear ribonucleoprotein A1	Biological Replicate 1 Only	1
P51991	Heterogeneous nuclear ribonucleoprotein A3	Biological Replicate 1 Only	1
Q14103	Heterogeneous nuclear ribonucleoprotein D0	Biological Replicate 2 Only	1
P31943	Heterogeneous nuclear ribonucleoprotein H	Biological Replicate 2 Only	1
P55795	Heterogeneous nuclear ribonucleoprotein H2	Biological Replicate 2 Only	1
P31942	Heterogeneous nuclear ribonucleoprotein H3	Biological Replicate 1 Only	1
P60709	Heterogeneous nuclear ribonucleoprotein K	Biological 1 and 2	5
P52272	Heterogeneous nuclear ribonucleoprotein M	Biological 1 and 2	5
Q00839	Heterogeneous nuclear ribonucleoprotein U	Biological Replicate 1 Only	1
P22626	Heterogeneous nuclear ribonucleoproteins A2/B1	Biological Replicate 1 Only	1
P07910	Heterogeneous nuclear ribonucleoproteins C1/C2	Biological Replicate 1 Only	2
P52789	Hexokinase-2	Biological Replicate 1 Only	1
P82970	High mobility group nucleosome-binding domain-containing protein 5	Biological Replicate 1 Only	1
P09429	High mobility group protein B1	Biological Replicate 1 Only	1
P09429	High mobility group protein B1	Biological Replicate 1 Only	1
P26583	High mobility group protein B2	Biological 1 and 2	3
P17096	High mobility group protein HMG-I/HMG-Y	Biological Replicate 1 Only	1
Q92993	Histone acetyltransferase KAT5	Biological Replicate 1 Only	1
O00422	Histone deacetylase complex subunit SAP18	Biological 1 and 2	3
Q02539	Histone H1.1	Biological Replicate 1 Only	1
P16403	Histone H1.2	Biological Replicate 1 Only	3
P16402	Histone H1.3	Biological Replicate 1 Only	3
P10412	Histone H1.4	Biological Replicate 1 Only	3
P22492	Histone H1t	Biological Replicate 1 Only	1
Q92522	Histone H1x	Biological Replicate 1 Only	1
P0C0S8	Histone H2A type 1	Biological 1 and 2	2
Q96QV6	Histone H2A type 1-A	Biological 1 and 2	2
P04908	Histone H2A type 1-B/E	Biological 1 and 2	2
Q93077	Histone H2A type 1-C	Biological 1 and 2	2
P20671	Histone H2A type 1-D	Biological 1 and 2	2
Q96KK5	Histone H2A type 1-H	Biological 1 and 2	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q99878	Histone H2A type 1-J	Biological 1 and 2	2
Q6FI13	Histone H2A type 2-A	Biological 1 and 2	3
Q16777	Histone H2A type 2-C	Biological 1 and 2	3
Q7L7L0	Histone H2A type 3	Biological 1 and 2	2
Q9BTM1	Histone H2A.J	Biological 1 and 2	2
Q71UI9	Histone H2A.V	Biological 1 and 2	2
P0C0S5	Histone H2A.Z	Biological 1 and 2	2
P16104	Histone H2AX	Biological 1 and 2	2
P68431	Histone H3.1	Biological Replicate 2 Only	1
Q16695	Histone H3.1t	Biological Replicate 2 Only	1
Q71DI3	Histone H3.2	Biological Replicate 2 Only	1
P84243	Histone H3.3	Biological Replicate 2 Only	1
Q6NXT2	Histone H3.3C	Biological Replicate 2 Only	1
P62805	Histone H4	Biological Replicate 1 Only	1
Q16576	Histone-binding protein RBBP7	Biological Replicate 1 Only	1
O43719	HIV Tat-specific factor 1	Biological Replicate 1 Only	1
P50502	Hsc70-interacting protein	Biological Replicate 2 Only	1
Q9NX55	Huntingtin-interacting protein K	Biological Replicate 2 Only	1
P00492	Hypoxanthine-guanine phosphoribosyltransferase	Biological Replicate 2 Only	1
P52292	Importin subunit alpha-1	Biological Replicate 1 Only	1
Q14974	Importin subunit beta-1	Biological Replicate 2 Only	3
O00410	Importin-5	Biological Replicate 1 Only	1
Q8NBJ7	Inactive C-alpha-formylglycine-generating enzyme 2	Biological Replicate 2 Only	1
Q8N3Z0	Inactive serine protease 35	Biological Replicate 2 Only	1
Q9NZI8	Insulin-like growth factor 2 mRNA-binding protein 1	Biological Replicate 1 Only	1
Q9Y6M1	Insulin-like growth factor 2 mRNA-binding protein 2	Biological Replicate 1 Only	1
O00425	Insulin-like growth factor 2 mRNA-binding protein 3	Biological Replicate 1 Only	1
P05556	Integrin beta-1	Biological Replicate 1 Only	1
Q12906	Interleukin enhancer-binding factor 3	Biological Replicate 2 Only	1
P01583	Interleukin-1 alpha	Biological Replicate 1 Only	1
Q9NZM3	Intersectin-2	Biological 1 and 2	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P50213	Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial	Biological Replicate 1 Only	1
P14923	Junction plakoglobin	Biological Replicate 2 Only	2
Q9H910	Jupiter microtubule associated homolog 2	Biological 1 and 2	2
Q9BWU0	Kanadaplin	Biological Replicate 1 Only	1
P13645	Keratin, type I cytoskeletal 10	Biological 1 and 2	14
P13645	Keratin, type I cytoskeletal 10	Biological 1 and 2	3
Q99456	Keratin, type I cytoskeletal 12	Biological Replicate 2 Only	1
P13646	Keratin, type I cytoskeletal 13	Biological Replicate 2 Only	1
P02533	Keratin, type I cytoskeletal 14	Biological 1 and 2	8
P19012	Keratin, type I cytoskeletal 15	Biological Replicate 2 Only	1
P08779	Keratin, type I cytoskeletal 16	Biological 1 and 2	3
P08779	Keratin, type I cytoskeletal 16	Biological Replicate 2 Only	1
Q04695	Keratin, type I cytoskeletal 17	Biological Replicate 2 Only	2
P08727	Keratin, type I cytoskeletal 19	Biological 1 and 2	3
Q2M2I5	Keratin, type I cytoskeletal 24	Biological Replicate 2 Only	1
Q7Z3Z0	Keratin, type I cytoskeletal 25	Biological 1 and 2	2
Q7Z3Y9	Keratin, type I cytoskeletal 26	Biological 1 and 2	2
Q7Z3Y8	Keratin, type I cytoskeletal 27	Biological 1 and 2	2
Q7Z3Y7	Keratin, type I cytoskeletal 28	Biological 1 and 2	2
P35527	Keratin, type I cytoskeletal 9	Biological Replicate 2 Only	12
P35527	Keratin, type I cytoskeletal 9	Biological 1 and 2	14
Q9NSB2	Keratin, type II cuticular Hb4	Biological Replicate 1 Only	1
P04264	Keratin, type II cytoskeletal 1	Biological 1 and 2	10
P04264	Keratin, type II cytoskeletal 1	Biological 1 and 2	2
Q7Z794	Keratin, type II cytoskeletal 1b	Biological 1 and 2	2
P35908	Keratin, type II cytoskeletal 2 epidermal	Biological 1 and 2	3
P35908	Keratin, type II cytoskeletal 2 epidermal	Biological Replicate 2 Only	13
Q01546	Keratin, type II cytoskeletal 2 oral	Biological Replicate 2 Only	2
P12035	Keratin, type II cytoskeletal 3	Biological Replicate 2 Only	1
P19013	Keratin, type II cytoskeletal 4	Biological Replicate 2 Only	1
P19013	Keratin, type II cytoskeletal 4	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P13647	Keratin, type II cytoskeletal 5	Biological Replicate 2 Only	6
P13647	Keratin, type II cytoskeletal 5	Biological 1 and 2	8
P02538	Keratin, type II cytoskeletal 6A	Biological 1 and 2	3
P04259	Keratin, type II cytoskeletal 6B	Biological Replicate 2 Only	1
P04259	Keratin, type II cytoskeletal 6B	Biological 1 and 2	2
P48668	Keratin, type II cytoskeletal 6C	Biological 1 and 2	3
P08729	Keratin, type II cytoskeletal 7	Biological Replicate 1 Only	1
Q14CN4	Keratin, type II cytoskeletal 72	Biological Replicate 2 Only	1
O95678	Keratin, type II cytoskeletal 75	Biological Replicate 2 Only	1
Q5XKE5	Keratin, type II cytoskeletal 79	Biological Replicate 2 Only	1
P05787	Keratin, type II cytoskeletal 8	Biological Replicate 1 Only	1
P05787	Keratin, type II cytoskeletal 8	Biological Replicate 1 Only	2
Q86UP2	Kinectin	Biological Replicate 1 Only	2
Q07866	Kinesin light chain 1	Biological Replicate 1 Only	1
Q14807	Kinesin-like protein KIF22	Biological Replicate 1 Only	1
Q9H410	Kinetochores-associated protein DSN1 homolog	Biological Replicate 1 Only	1
Q04760	Lactoylglutathione lyase	Biological 1 and 2	2
P20700	Lamin-B1	Biological Replicate 1 Only	3
Q03252	Lamin-B2	Biological 1 and 2	4
Q16363	Laminin subunit alpha-4	Biological Replicate 1 Only	1
P11047	Laminin subunit gamma-1	Biological Replicate 1 Only	1
Q96KR4	Leishmanolysin-like peptidase	Biological Replicate 1 Only	1
Q9BTN0	Leucine-rich repeat and fibronectin type-III domain-containing protein 3	Biological Replicate 2 Only	1
Q96B70	Leukocyte receptor cluster member 9	Biological Replicate 2 Only	1
Q14114	Low-density lipoprotein receptor-related protein 8	Biological Replicate 2 Only	1
O95232	Luc7-like protein 3	Biological Replicate 2 Only	1
P05455	Lupus La protein	Biological Replicate 1 Only	2
P40926	Malate dehydrogenase, mitochondrial	Biological Replicate 1 Only	1
Q8IWC1	MAP7 domain-containing protein 3	Biological Replicate 1 Only	1
P30153	Medium tumor antigen-associated 61 kDa protein	Biological Replicate 1 Only	1
O00264	Membrane-associated progesterone receptor component 1	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P54105	Methylosome subunit pICln	Biological Replicate 2 Only	2
P46821	Microtubule-associated protein 1B	Biological Replicate 1 Only	1
P27816	Microtubule-associated protein 4	Biological 1 and 2	6
Q9NU22	Midasin	Biological Replicate 2 Only	1
Q8TCT9	Minor histocompatibility antigen H13	Biological Replicate 1 Only	1
P62072	Mitochondrial import inner membrane translocase subunit Tim10	Biological Replicate 1 Only	1
Q9Y5L4	Mitochondrial import inner membrane translocase subunit Tim13	Biological Replicate 1 Only	1
Q9NS69	Mitochondrial import receptor subunit TOM22 homolog	Biological Replicate 1 Only	1
O95202	Mitochondrial proton/calcium exchanger protein	Biological 1 and 2	3
Q9Y3A3	MOB-like protein phocein	Biological Replicate 2 Only	1
Q9Y605	MORF4 family-associated protein 1	Biological Replicate 2 Only	1
P22234	Multifunctional protein ADE2	Biological Replicate 2 Only	1
Q6DN12	Multiple C2 and transmembrane domain-containing protein 2	Biological Replicate 2 Only	1
P05976	Myosin light chain 1/3, skeletal muscle isoform	Biological 1 and 2	2
P08590	Myosin light chain 3	Biological 1 and 2	2
P14649	Myosin light chain 6B	Biological Replicate 2 Only	1
P60660	Myosin light polypeptide 6	Biological 1 and 2	5
P19105	Myosin regulatory light chain 12A	Biological Replicate 2 Only	2
O14950	Myosin regulatory light chain 12B	Biological Replicate 2 Only	2
P24844	Myosin regulatory light polypeptide 9	Biological Replicate 2 Only	3
P35579	Myosin-9	Biological 1 and 2	5
P29966	Myristoylated alanine-rich C-kinase substrate	Biological 1 and 2	3
Q86W28	NACHT, LRR and PYD domains-containing protein 8	Biological Replicate 2 Only	1
P17568	NADH dehydrogenase	Biological Replicate 2 Only	1
Q16718	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5	Biological Replicate 1 Only	1
Q8NF91	Nesprin-1	Biological 1 and 2	2
P48681	Nestin	Biological Replicate 1 Only	1
Q9UMX5	Neudesin	Biological Replicate 1 Only	1
Q09666	Neuroblast differentiation-associated protein AHNAK	Biological Replicate 2 Only	1
P07196	Neurofilament light polypeptide	Biological Replicate 1 Only	2
P07197	Neurofilament medium polypeptide	Biological 1 and 2	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q9Y639	Neuroplastin	Biological 1 and 2	3
Q9Y6K9	NF-kappa-B essential modulator	Biological Replicate 1 Only	1
Q9Y2I6	Ninein-like protein	Biological Replicate 2 Only	1
Q9NZG7	Ninjurin-2	Biological Replicate 2 Only	1
Q15233	Non-POU domain-containing octamer-binding protein	Biological 1 and 2	7
P22307	Non-specific lipid-transfer protein	Biological Replicate 1 Only	2
P23497	Nuclear autoantigen Sp-100	Biological Replicate 1 Only	1
P49321	Nuclear autoantigenic sperm protein	Biological 1 and 2	5
Q09161	Nuclear cap-binding protein subunit 1	Biological Replicate 2 Only	1
Q53F19	Nuclear cap-binding protein subunit 3	Biological Replicate 1 Only	2
Q14980	Nuclear mitotic apparatus protein 1	Biological Replicate 1 Only	2
P49790	Nuclear pore complex protein Nup153	Biological Replicate 1 Only	2
P67809	Nuclease-sensitive element-binding protein 1	Biological Replicate 1 Only	1
P67809	Nuclease-sensitive element-binding protein 1	Biological 1 and 2	4
Q02818	Nucleobindin-1	Biological Replicate 1 Only	1
P80303	Nucleobindin-2	Biological 1 and 2	2
Q13823	Nucleolar GTP-binding protein 2	Biological Replicate 2 Only	1
Q9Y3C1	Nucleolar protein 16	Biological Replicate 1 Only	2
Q9Y2X3	Nucleolar protein 58	Biological Replicate 1 Only	1
Q9NR30	Nucleolar RNA helicase 2	Biological Replicate 1 Only	1
P19338	Nucleolin	Biological Replicate 1 Only	3
P06748	Nucleophosmin	Biological 1 and 2	7
P12270	Nucleoprotein TPR	Biological Replicate 1 Only	4
P15531	Nucleoside diphosphate kinase A	Biological Replicate 1 Only	2
P22392	Nucleoside diphosphate kinase B	Biological Replicate 1 Only	1
Q9NX40	OCIA domain-containing protein 1	Biological Replicate 1 Only	1
P47893	Olfactory receptor 3A2	Biological Replicate 2 Only	1
Q96CV9	Optineurin	Biological Replicate 1 Only	1
Q8TE49	OTU domain-containing protein 7A	Biological Replicate 2 Only	1
Q8WXF1	Paraspeckle component 1	Biological Replicate 1 Only	2
Q9BRP8	Partner of Y14 and mago	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q6ZV29	Patatin-like phospholipase domain-containing protein 7	Biological Replicate 1 Only	1
O75475	PC4 and SFRS1-interacting protein	Biological Replicate 1 Only	1
O00151	PDZ and LIM domain protein 1	Biological Replicate 1 Only	1
Q76G19	PDZ domain-containing protein 4	Biological Replicate 2 Only	1
P62937	Peptidyl-prolyl cis-trans isomerase A	Biological Replicate 1 Only	1
P62937	Peptidyl-prolyl cis-trans isomerase A	Biological 1 and 2	2
Q9Y536	Peptidyl-prolyl cis-trans isomerase A-like 4A	Biological Replicate 1 Only	1
A0A0B4J2A2	Peptidyl-prolyl cis-trans isomerase A-like 4C	Biological Replicate 1 Only	1
F5H284	Peptidyl-prolyl cis-trans isomerase A-like 4D	Biological Replicate 1 Only	1
P0DN26	Peptidyl-prolyl cis-trans isomerase A-like 4F	Biological Replicate 1 Only	1
P0DN37	Peptidyl-prolyl cis-trans isomerase A-like 4G	Biological Replicate 1 Only	1
A0A075B767	Peptidyl-prolyl cis-trans isomerase A-like 4H	Biological Replicate 1 Only	1
Q96AY3	Peptidyl-prolyl cis-trans isomerase FKBP10	Biological Replicate 2 Only	1
Q02790	Peptidyl-prolyl cis-trans isomerase FKBP4	Biological Replicate 1 Only	1
Q13451	Peptidyl-prolyl cis-trans isomerase FKBP5	Biological Replicate 1 Only	1
Q13526	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1	Biological Replicate 2 Only	1
Q9Y237	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 4	Biological Replicate 1 Only	1
Q9Y3C6	Peptidyl-prolyl cis-trans isomerase-like 1	Biological Replicate 1 Only	1
P41219	Peripherin	Biological Replicate 1 Only	3
Q06830	Peroxiredoxin-1	Biological Replicate 1 Only	1
P40855	Peroxisomal biogenesis factor 19	Biological 1 and 2	3
P51659	Peroxisomal multifunctional enzyme type 2	Biological Replicate 1 Only	1
Q9Y285	Phenylalanine--tRNA ligase alpha subunit	Biological Replicate 2 Only	1
Q9UG56	Phosphatidylserine decarboxylase proenzyme, mitochondrial	Biological Replicate 2 Only	1
P18669	Phosphoglycerate mutase 1	Biological Replicate 1 Only	1
Q9H307	Pinin	Biological Replicate 1 Only	1
Q8NC51	Plasminogen activator inhibitor 1 RNA-binding protein	Biological Replicate 1 Only	1
P13796	Plastin-2	Biological Replicate 1 Only	2
P13797	Plastin-3	Biological Replicate 1 Only	1
P13797	Plastin-3	Biological 1 and 2	5
Q9Y5J5	Pleckstrin homology-like domain family A member 3	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q8IUUK5	Plexin domain-containing protein 1	Biological Replicate 2 Only	1
P09874	Poly [ADP-ribose] polymerase 1	Biological Replicate 1 Only	1
Q15365	Poly(rC)-binding protein 1	Biological Replicate 1 Only	1
Q15366	Poly(rC)-binding protein 2	Biological Replicate 2 Only	1
P11940	Polyadenylate-binding protein 1	Biological Replicate 1 Only	2
P11940	Polyadenylate-binding protein 1	Biological 1 and 2	2
Q9H361	Polyadenylate-binding protein 3	Biological Replicate 1 Only	1
Q13310	Polyadenylate-binding protein 4	Biological Replicate 1 Only	1
O60828	Polyglutamine-binding protein 1	Biological 1 and 2	2
P0CG47	Polyubiquitin-B	Biological Replicate 2 Only	1
P0CG47	Polyubiquitin-B	Biological 1 and 2	2
P0CG48	Polyubiquitin-C	Biological 1 and 2	3
Q6S8J7	POTE ankyrin domain family member A	Biological Replicate 1 Only	1
Q6S8J3	POTE ankyrin domain family member E	Biological 1 and 2	5
A5A3E0	POTE ankyrin domain family member F	Biological 1 and 2	5
P0CG38	POTE ankyrin domain family member I	Biological 1 and 2	4
P0CG39	POTE ankyrin domain family member J	Biological 1 and 2	4
Q9UHV9	Prefoldin subunit 2	Biological 1 and 2	2
P61758	Prefoldin subunit 3	Biological Replicate 1 Only	1
Q92841	Probable ATP-dependent RNA helicase DDX17	Biological Replicate 1 Only	1
Q92841	Probable ATP-dependent RNA helicase DDX17	Biological Replicate 2 Only	1
P17844	Probable ATP-dependent RNA helicase DDX5	Biological Replicate 2 Only	1
P26196	Probable ATP-dependent RNA helicase DDX6	Biological Replicate 1 Only	1
Q9H5Z1	Probable ATP-dependent RNA helicase DHX35	Biological Replicate 2 Only	1
P28370	Probable global transcription activator SNF2L1	Biological Replicate 2 Only	1
Q13395	Probable methyltransferase TARBP1	Biological Replicate 1 Only	1
Q8N0Y7	Probable phosphoglycerate mutase 4	Biological Replicate 1 Only	1
Q99848	Probable rRNA-processing protein EBP2	Biological Replicate 2 Only	1
Q8WUM4	Programmed cell death 6-interacting protein	Biological Replicate 1 Only	1
O75340	Programmed cell death protein 6	Biological Replicate 1 Only	1
Q9UQ80	Proliferation-associated protein 2G4	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q92733	Proline-rich protein PRCC	Biological Replicate 2 Only	1
P07602	Prosaposin	Biological Replicate 1 Only	1
Q15185	Prostaglandin E synthase 3	Biological Replicate 2 Only	1
P28066	Proteasome subunit alpha type-5	Biological 1 and 2	2
Q9NY61	Protein AATF	Biological Replicate 1 Only	1
P02760	Protein AMBP	Biological Replicate 2 Only	1
Q9Y2V0	Protein C15orf41	Biological Replicate 1 Only	1
Q96C57	Protein CUSTOS	Biological Replicate 1 Only	1
O60888	Protein CutA	Biological Replicate 2 Only	1
P35659	Protein DEK	Biological 1 and 2	2
P07237	Protein disulfide-isomerase	Biological 1 and 2	2
P30101	Protein disulfide-isomerase A3	Biological Replicate 1 Only	3
P13667	Protein disulfide-isomerase A4	Biological Replicate 1 Only	2
Q15084	Protein disulfide-isomerase A6	Biological Replicate 1 Only	1
P49257	Protein ERGIC-53	Biological Replicate 2 Only	1
Q7Z309	Protein FAM122B	Biological Replicate 1 Only	1
Q96C01	Protein FAM136A	Biological Replicate 1 Only	1
Q8NCA5	Protein FAM98A	Biological Replicate 2 Only	1
Q52LJ0	Protein FAM98B	Biological Replicate 2 Only	1
O94992	Protein HEXIM1	Biological Replicate 1 Only	1
A5PL33	Protein KRBA1	Biological Replicate 2 Only	1
Q96GY3	Protein lin-37 homolog	Biological Replicate 1 Only	1
Q8WZA0	Protein LZIC	Biological Replicate 1 Only	1
Q92597	Protein NDRG1	Biological Replicate 1 Only	1
O15355	Protein phosphatase 1G	Biological 1 and 2	2
P41236	Protein phosphatase inhibitor 2	Biological Replicate 1 Only	1
Q6NXS1	Protein phosphatase inhibitor 2 family member B	Biological Replicate 1 Only	1
Q5THK1	Protein PRR14L	Biological Replicate 2 Only	1
P48634	Protein PRRC2A	Biological Replicate 1 Only	2
Q9Y520	Protein PRRC2C	Biological Replicate 1 Only	2
Q3SYG4	Protein PTHB1	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P06702	Protein S100-A9	Biological Replicate 2 Only	2
Q01105	Protein SET	Biological Replicate 2 Only	1
Q9Y2Z0	Protein SGT1 homolog	Biological Replicate 1 Only	1
O94964	Protein SOGA1	Biological Replicate 2 Only	1
P18583	Protein SON	Biological Replicate 1 Only	1
Q8WWL2	Protein spire homolog 2	Biological Replicate 1 Only	1
Q92734	Protein TFG	Biological Replicate 2 Only	1
P60468	Protein transport protein Sec61 subunit beta	Biological Replicate 1 Only	1
Q99497	Protein/nucleic acid deglycase DJ-1	Biological Replicate 2 Only	1
P06454	Prothymosin alpha	Biological 1 and 2	2
Q5JNZ5	Putative 40S ribosomal protein S26-like 1	Biological 1 and 2	2
Q9BYX7	Putative beta-actin-like protein 3	Biological 1 and 2	4
Q5VTE0	Putative elongation factor 1-alpha-like 3	Biological Replicate 2 Only	1
P48741	Putative heat shock 70 kDa protein 7	Biological Replicate 2 Only	3
Q58FG0	Putative heat shock protein HSP 90-alpha A5	Biological Replicate 2 Only	1
Q58FF8	Putative heat shock protein HSP 90-beta 2	Biological Replicate 2 Only	1
Q58FF6	Putative heat shock protein HSP 90-beta 4	Biological Replicate 2 Only	1
Q58FF7	Putative heat shock protein HSP 90-beta-3	Biological Replicate 2 Only	2
B2RPK0	Putative high mobility group protein B1-like 1	Biological Replicate 1 Only	1
O60361	Putative nucleoside diphosphate kinase	Biological Replicate 1 Only	1
Q96C36	Pyrroline-5-carboxylate reductase 2	Biological Replicate 1 Only	1
P11177	Pyruvate dehydrogenase E1 component subunit beta	Biological Replicate 1 Only	1
Q14699	Raftlin	Biological Replicate 1 Only	1
Q6IAA8	Ragulator complex protein LAMTOR1	Biological Replicate 1 Only	1
P46060	Ran GTPase-activating protein 1	Biological Replicate 1 Only	1
Q9H6Z4	Ran-binding protein 3	Biological Replicate 2 Only	1
Q13283	Ras GTPase-activating protein-binding protein 1	Biological Replicate 1 Only	1
Q9UN86	Ras GTPase-activating protein-binding protein 2	Biological Replicate 1 Only	1
P46940	Ras GTPase-activating-like protein IQGAP1	Biological Replicate 2 Only	1
Q9H0U4	Ras-related protein Rab-1B	Biological 1 and 2	2
P23468	Receptor-type tyrosine-protein phosphatase delta	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P23471	Receptor-type tyrosine-protein phosphatase zeta	Biological Replicate 2 Only	1
P18754	Regulator of chromosome condensation	Biological Replicate 2 Only	1
Q9UKL0	REST corepressor 1	Biological Replicate 1 Only	1
Q15293	Reticulocalbin-1	Biological Replicate 2 Only	1
Q9NQC3	Reticulon-4	Biological Replicate 2 Only	1
P52565	Rho GDP-dissociation inhibitor 1	Biological 1 and 2	2
Q92974	Rho guanine nucleotide exchange factor 2	Biological Replicate 1 Only	1
Q6NTF9	Rhomboid domain-containing protein 2	Biological Replicate 2 Only	1
Q96E11	Ribosome-recycling factor, mitochondrial	Biological Replicate 1 Only	1
Q96E39	RNA binding motif protein, X-linked-like-1	Biological Replicate 1 Only	1
Q9Y224	RNA transcription, translation and transport factor protein	Biological Replicate 1 Only	1
P37802	RNA-binding motif protein, X chromosome	Biological Replicate 1 Only	1
O75526	RNA-binding motif protein, X-linked-like-2	Biological Replicate 1 Only	1
P98179	RNA-binding protein 3	Biological Replicate 1 Only	2
Q01844	RNA-binding protein EWS	Biological Replicate 1 Only	3
P35637	RNA-binding protein FUS	Biological 1 and 2	4
Q8WZ75	Roundabout homolog 4	Biological Replicate 2 Only	1
Q9Y265	RuvB-like 1	Biological Replicate 2 Only	1
Q14BN4	Sarcolemmal membrane-associated protein	Biological Replicate 2 Only	1
P16615	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	Biological Replicate 2 Only	1
Q15424	Scaffold attachment factor B1	Biological Replicate 2 Only	1
Q9UQ35	Serine/arginine repetitive matrix protein 2	Biological 1 and 2	2
Q9BYT3	Serine/threonine-protein kinase 33	Biological Replicate 1 Only	1
Q8N568	Serine/threonine-protein kinase DCLK2	Biological Replicate 1 Only	1
Q9NY27	Serine/threonine-protein phosphatase 4 regulatory subunit 2	Biological Replicate 1 Only	2
P02787	Serotransferrin	Biological Replicate 1 Only	1
P02768	Serum albumin	Biological Replicate 1 Only	4
P11831	Serum response factor	Biological Replicate 2 Only	1
Q9ULZ2	Signal-transducing adaptor protein 1	Biological Replicate 1 Only	1
Q04837	Single-stranded DNA-binding protein, mitochondrial	Biological Replicate 1 Only	2
P12755	Ski oncogene	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
O00193	Small acidic protein	Biological Replicate 1 Only	1
P61956	Small ubiquitin-related modifier 2	Biological Replicate 1 Only	1
P55854	Small ubiquitin-related modifier 3	Biological Replicate 1 Only	1
Q6EEV6	Small ubiquitin-related modifier 4	Biological Replicate 1 Only	1
A6NHR9	SMC hinge domain-containing protein 1	Biological Replicate 1 Only	1
Q13573	SNW domain-containing protein 1	Biological Replicate 1 Only	2
P05023	Sodium/potassium-transporting ATPase subunit alpha-1	Biological Replicate 2 Only	1
P50993	Sodium/potassium-transporting ATPase subunit alpha-2	Biological Replicate 2 Only	1
P13637	Sodium/potassium-transporting ATPase subunit alpha-3	Biological Replicate 2 Only	1
Q13733	Sodium/potassium-transporting ATPase subunit alpha-4	Biological Replicate 1 Only	1
Q13733	Sodium/potassium-transporting ATPase subunit alpha-4	Biological Replicate 2 Only	1
P54709	Sodium/potassium-transporting ATPase subunit beta-3	Biological Replicate 1 Only	1
P30626	Sorcin	Biological Replicate 1 Only	1
O60749	Sorting nexin-2	Biological 1 and 2	2
Q9H3U7	SPARC-related modular calcium-binding protein 2	Biological Replicate 2 Only	1
Q9H6E5	Speckle targeted PIP5K1A-regulated poly	Biological Replicate 1 Only	1
Q13813	Spectrin alpha chain, non-erythrocytic 1	Biological Replicate 1 Only	3
Q01082	Spectrin beta chain, non-erythrocytic 1	Biological Replicate 2 Only	1
Q15637	Splicing factor 1	Biological Replicate 2 Only	1
Q15459	Splicing factor 3A subunit 1	Biological Replicate 1 Only	1
Q13435	Splicing factor 3B subunit 2	Biological 1 and 2	8
P26368	Splicing factor U2AF 65 kDa subunit	Biological Replicate 2 Only	1
Q9BW85	Splicing factor YJU2	Biological Replicate 1 Only	1
P23246	Splicing factor, proline- and glutamine-rich	Biological 1 and 2	3
Q07666	Src-associated in mitosis 68 kDa protein	Biological Replicate 2 Only	1
P38646	Stress-70 protein, mitochondrial	Biological 1 and 2	5
P31948	Stress-induced-phosphoprotein 1	Biological 1 and 2	7
Q9UBE0	SUMO-activating enzyme subunit 1	Biological Replicate 1 Only	1
Q9UBS9	SUN domain-containing ossification factor	Biological Replicate 1 Only	1
P00441	Superoxide dismutase	Biological Replicate 2 Only	1
P34741	Syndecan-2	Biological 1 and 2	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q9Y490	Talin-1	Biological Replicate 2 Only	1
Q86TI0	TBC1 domain family member 1	Biological Replicate 2 Only	1
P78371	T-complex protein 1 subunit beta	Biological Replicate 2 Only	1
P78371	T-complex protein 1 subunit beta	Biological Replicate 2 Only	1
P50991	T-complex protein 1 subunit delta	Biological Replicate 1 Only	1
P49368	T-complex protein 1 subunit gamma	Biological Replicate 1 Only	1
P50990	T-complex protein 1 subunit theta	Biological Replicate 1 Only	2
Q9NUJ3	T-complex protein 11-like protein 1	Biological Replicate 1 Only	1
Q2MV58	Tectonic-1	Biological Replicate 2 Only	1
P22105	Tenascin-X	Biological 1 and 2	2
O95881	Thioredoxin domain-containing protein 12	Biological Replicate 1 Only	1
O14530	Thioredoxin domain-containing protein 9	Biological Replicate 1 Only	1
Q8NFAQ8	Torsin-1A-interacting protein 2	Biological Replicate 1 Only	1
P37837	Transaldolase	Biological Replicate 2 Only	1
Q96EI5	Transcription elongation factor A protein-like 4	Biological Replicate 2 Only	1
Q00059	Transcription factor A, mitochondrial	Biological Replicate 1 Only	1
P05412	Transcription factor AP-1	Biological Replicate 1 Only	1
Q13263	Transcription intermediary factor 1-beta	Biological 1 and 2	3
Q8WXI9	Transcriptional repressor p66-beta	Biological Replicate 1 Only	2
P37802	Transgelin-2	Biological Replicate 1 Only	1
Q9UI15	Transgelin-3	Biological Replicate 1 Only	1
P55072	Transitional endoplasmic reticulum ATPase	Biological Replicate 1 Only	2
P29401	Transketolase	Biological Replicate 2 Only	2
Q9HD45	Transmembrane 9 superfamily member 3	Biological Replicate 2 Only	1
Q13445	Transmembrane emp24 domain-containing protein 1	Biological Replicate 1 Only	1
Q13428	Treacle protein	Biological Replicate 1 Only	1
P60174	Triosephosphate isomerase	Biological Replicate 1 Only	1
Q6P1R4	tRNA-dihydrouridine	Biological Replicate 2 Only	1
Q9Y3I0	tRNA-splicing ligase RtcB homolog	Biological Replicate 2 Only	1
P09493	Tropomyosin alpha-1 chain	Biological 1 and 2	2
P06753	Tropomyosin alpha-3 chain	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q71U36	Tubulin alpha-1A chain	Biological Replicate 2 Only	1
P68363	Tubulin alpha-1B chain	Biological Replicate 2 Only	1
Q9BQE3	Tubulin alpha-1C chain	Biological Replicate 2 Only	1
P68366	Tubulin alpha-4A chain	Biological Replicate 2 Only	1
A6NNZ2	Tubulin beta 8B	Biological 1 and 2	2
P07437	Tubulin beta chain	Biological 1 and 2	10
P07437	Tubulin beta chain	Biological Replicate 2 Only	2
Q9H4B7	Tubulin beta-1 chain	Biological 1 and 2	2
Q9H4B7	Tubulin beta-1 chain	Biological Replicate 2 Only	1
Q13509	Tubulin beta-2A chain	Biological 1 and 2	3
Q9BVA1	Tubulin beta-2B chain	Biological 1 and 2	10
Q13509	Tubulin beta-3 chain	Biological 1 and 2	7
P04350	Tubulin beta-4A chain	Biological 1 and 2	4
P04350	Tubulin beta-4A chain	Biological 1 and 2	8
P68371	Tubulin beta-4B chain	Biological 1 and 2	12
P68371	Tubulin beta-4B chain	Biological Replicate 2 Only	1
Q9BUF5	Tubulin beta-6 chain	Biological 1 and 2	4
Q9BUF5	Tubulin beta-6 chain	Biological Replicate 1 Only	1
Q3ZCM7	Tubulin beta-8 chain	Biological 1 and 2	3
O75347	Tubulin-specific chaperone A	Biological Replicate 2 Only	1
B5MCY1	Tudor domain-containing protein 15	Biological Replicate 2 Only	1
O43399	Tumor protein D54	Biological Replicate 2 Only	1
O14683	Tumor protein p53-inducible protein 11	Biological Replicate 2 Only	1
Q12792	Twinfilin-1	Biological Replicate 2 Only	1
P08621	U1 small nuclear ribonucleoprotein 70 kDa	Biological Replicate 2 Only	2
P09012	U1 small nuclear ribonucleoprotein A	Biological 1 and 2	2
P09234	U1 small nuclear ribonucleoprotein C	Biological Replicate 1 Only	1
P09661	U2 small nuclear ribonucleoprotein A'	Biological Replicate 1 Only	1
O15042	U2 snRNP-associated SURP motif-containing protein	Biological Replicate 1 Only	1
O43290	U4/U6.U5 tri-snRNP-associated protein 1	Biological Replicate 1 Only	1
Q9Y4Z0	U6 snRNA-associated Sm-like protein LSm4	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q9UMX0	Ubiquilin-1	Biological 1 and 2	2
Q9UHD9	Ubiquilin-2	Biological Replicate 2 Only	1
Q9NRR5	Ubiquilin-4	Biological Replicate 2 Only	1
P15374	Ubiquitin carboxyl-terminal hydrolase isozyme L3	Biological 1 and 2	2
P62979	Ubiquitin-40S ribosomal protein S27a	Biological Replicate 2 Only	1
P62987	Ubiquitin-60S ribosomal protein L40	Biological Replicate 2 Only	1
Q5T6F2	Ubiquitin-associated protein 2	Biological Replicate 1 Only	1
Q14157	Ubiquitin-associated protein 2-like	Biological 1 and 2	3
Q13885	Ubiquitin-associated protein 2-like	Biological 1 and 2	10
P61088	Ubiquitin-conjugating enzyme E2 N	Biological Replicate 1 Only	1
Q15819	Ubiquitin-conjugating enzyme E2 variant 2	Biological Replicate 2 Only	1
P22314	Ubiquitin-like modifier-activating enzyme 1	Biological 1 and 2	2
Q8N5S3	Uncharacterized protein C2orf73	Biological Replicate 2 Only	1
Q5T0Z8	Uncharacterized protein C6orf132	Biological Replicate 1 Only	1
Q96K31	Uncharacterized protein C8orf76	Biological Replicate 1 Only	1
Q92614	Unconventional myosin-XVIIIa	Biological Replicate 1 Only	1
Q9H5V9	UPF0428 protein CXorf56	Biological Replicate 1 Only	1
Q9UFG5	UPF0449 protein C19orf25	Biological Replicate 1 Only	1
O00526	Uroplakin-2	Biological Replicate 2 Only	1
O95399	Urotensin-2	Biological 1 and 2	2
P54727	UV excision repair protein RAD23 homolog B	Biological 1 and 2	2
P86790	Vacuolar fusion protein CCZ1 homolog B	Biological Replicate 2 Only	1
Q9H270	Vacuolar protein sorting-associated protein 11 homolog	Biological Replicate 1 Only	1
Q96RL7	Vacuolar protein sorting-associated protein 13A	Biological Replicate 2 Only	1
Q9P1Q0	Vacuolar protein sorting-associated protein 54	Biological Replicate 2 Only	1
Q9UEU0	Vesicle transport through interaction with t-SNAREs homolog 1B	Biological Replicate 1 Only	1
Q15836	Vesicle-associated membrane protein 3	Biological Replicate 1 Only	1
O75396	Vesicle-trafficking protein SEC22b	Biological Replicate 2 Only	1
P08670	Vimentin	Biological Replicate 1 Only	2
P08670	Vimentin	Biological 1 and 2	13
P18206	Vinculin	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P36543	V-type proton ATPase subunit E 1	Biological Replicate 1 Only	1
Q96A05	V-type proton ATPase subunit E 2	Biological Replicate 1 Only	1
Q15904	V-type proton ATPase subunit S1	Biological Replicate 1 Only	1
Q641Q2	WASH complex subunit 2A	Biological Replicate 1 Only	1
Q9Y3C0	WASH complex subunit 3	Biological Replicate 1 Only	1
Q9Y4E6	WD repeat-containing protein 7	Biological Replicate 2 Only	1
Q9Y2W2	WW domain-binding protein 11	Biological 1 and 2	3
Q969T9	WW domain-binding protein 2	Biological Replicate 1 Only	1
Q9Y2T7	Y-box-binding protein 2	Biological Replicate 1 Only	1
P16989	Y-box-binding protein 3	Biological 1 and 2	4
O00488	Zinc finger protein 593	Biological Replicate 1 Only	1
Q9ULD9	Zinc finger protein 608	Biological Replicate 1 Only	1
Q8NB50	Zinc finger protein 62 homolog	Biological Replicate 1 Only	1
P35789	Zinc finger protein 93	Biological Replicate 1 Only	1
P10070	Zinc finger protein GLI2	Biological Replicate 2 Only	1
Q96EF9	Zinc fingers and homeoboxes protein 1, isoform 2	Biological Replicate 1 Only	1

Table S5. IC-FPOP oxidatively modified proteins in 200 mM H₂O₂ PIXY

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q15029	116 kDa U5 small nuclear ribonucleoprotein component	Biological 1 and 2	2
P31946	14-3-3 protein beta/alpha	Biological Replicate 2 Only	1
P62258	14-3-3 protein epsilon	Biological Replicate 2 Only	1
P61981	14-3-3 protein gamma	Biological Replicate 2 Only	1
P61978	14-3-3 protein gamma	Biological 1 and 2	5
P27348	14-3-3 protein theta	Biological 1 and 2	3
Q99460	26S proteasome non-ATPase regulatory subunit 1	Biological 1 and 2	3
O75832	26S proteasome non-ATPase regulatory subunit 10	Biological Replicate 2 Only	2
Q9UNM6	26S proteasome non-ATPase regulatory subunit 13	Biological 1 and 2	4
O00487	26S proteasome non-ATPase regulatory subunit 14	Biological Replicate 1 Only	1
Q13200	26S proteasome non-ATPase regulatory subunit 2	Biological Replicate 2 Only	1
P61981	26S proteasome regulatory subunit 10B	Biological 1 and 2	2
P17980	26S proteasome regulatory subunit 6A	Biological Replicate 2 Only	2
P40227	26S proteasome regulatory subunit 6B	Biological 1 and 2	2
P35998	26S proteasome regulatory subunit 7	Biological Replicate 2 Only	2
P62195	26S proteasome regulatory subunit 8	Biological Replicate 2 Only	4
Q9Y3D3	28S ribosomal protein S16, mitochondrial	Biological 1 and 2	2
P82663	28S ribosomal protein S25, mitochondrial	Biological Replicate 2 Only	4
P82930	28S ribosomal protein S34, mitochondrial	Biological Replicate 1 Only	1
P82673	28S ribosomal protein S35, mitochondrial	Biological Replicate 2 Only	1
P82932	28S ribosomal protein S6, mitochondrial	Biological Replicate 1 Only	1
Q9BYD1	39S ribosomal protein L13, mitochondrial	Biological Replicate 2 Only	1
P49406	39S ribosomal protein L19, mitochondrial	Biological Replicate 2 Only	1
Q9P0M9	39S ribosomal protein L27, mitochondrial	Biological Replicate 2 Only	1
Q9NYK5	39S ribosomal protein L39, mitochondrial	Biological Replicate 2 Only	1
Q8IXM3	39S ribosomal protein L41, mitochondrial	Biological Replicate 2 Only	1
Q9HD33	39S ribosomal protein L47, mitochondrial	Biological Replicate 2 Only	1
Q96GC5	39S ribosomal protein L48, mitochondrial	Biological Replicate 2 Only	1
Q99714	3-hydroxyacyl-CoA dehydrogenase type-2	Biological Replicate 2 Only	3
P31937	3-hydroxyisobutyrate dehydrogenase, mitochondrial	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P09110	3-ketoacyl-CoA thiolase, peroxisomal	Biological Replicate 2 Only	1
P46783	40S ribosomal protein S10	Biological Replicate 2 Only	2
P46777	40S ribosomal protein S10	Biological Replicate 2 Only	1
P25398	40S ribosomal protein S12	Biological Replicate 2 Only	1
P62333	40S ribosomal protein S15	Biological 1 and 2	3
P08708	40S ribosomal protein S17	Biological Replicate 2 Only	2
P62269	40S ribosomal protein S18	Biological Replicate 2 Only	2
P39019	40S ribosomal protein S19	Biological Replicate 1 Only	1
P63220	40S ribosomal protein S21	Biological Replicate 1 Only	1
P62847	40S ribosomal protein S24	Biological Replicate 2 Only	1
P42677	40S ribosomal protein S27	Biological Replicate 2 Only	1
Q71UM5	40S ribosomal protein S27-like	Biological Replicate 2 Only	1
P23396	40S ribosomal protein S3	Biological Replicate 2 Only	2
P61247	40S ribosomal protein S3a	Biological Replicate 1 Only	1
P62701	40S ribosomal protein S4, X isoform	Biological Replicate 1 Only	1
P46060	40S ribosomal protein S5	Biological 1 and 2	4
P62753	40S ribosomal protein S6	Biological Replicate 1 Only	1
P08865	40S ribosomal protein SA	Biological 1 and 2	3
P49189	4-trimethylaminobutyraldehyde dehydrogenase	Biological Replicate 2 Only	2
P10809	60 kDa heat shock protein, mitochondrial	Biological 1 and 2	5
P05388	60S acidic ribosomal protein P0	Biological 1 and 2	3
Q8NHW5	60S acidic ribosomal protein P0-like	Biological 1 and 2	3
P05386	60S acidic ribosomal protein P1	Biological Replicate 1 Only	1
P27635	60S ribosomal protein L10	Biological Replicate 1 Only	1
P26373	60S ribosomal protein L13	Biological Replicate 2 Only	1
P50914	60S ribosomal protein L14	Biological Replicate 2 Only	1
P18621	60S ribosomal protein L17	Biological 1 and 2	2
P84098	60S ribosomal protein L19	Biological Replicate 1 Only	1
P46778	60S ribosomal protein L21	Biological Replicate 1 Only	2
P35268	60S ribosomal protein L22	Biological Replicate 2 Only	1
P62829	60S ribosomal protein L23	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P83731	60S ribosomal protein L24	Biological Replicate 2 Only	2
P62841	60S ribosomal protein L32	Biological 1 and 2	5
Q9Y3U8	60S ribosomal protein L36	Biological Replicate 2 Only	1
P36578	60S ribosomal protein L4	Biological Replicate 2 Only	1
P46087	60S ribosomal protein L5	Biological Replicate 2 Only	1
P62917	60S ribosomal protein L8	Biological Replicate 2 Only	1
P52209	6-phosphogluconate dehydrogenase, decarboxylating	Biological Replicate 1 Only	1
P10515	70 kDa mitochondrial autoantigen of primary biliary cirrhosis	Biological 1 and 2	2
Q9UHI8	A disintegrin and metalloproteinase with thrombospondin motifs 1	Biological Replicate 1 Only	1
Q8IZP0	Abl interactor 1	Biological Replicate 1 Only	1
Q9BWD1	Acetyl-CoA acetyltransferase, cytosolic	Biological Replicate 2 Only	1
P24752	Acetyl-CoA acetyltransferase, mitochondrial	Biological Replicate 2 Only	3
P39687	Acidic leucine-rich nuclear phosphoprotein 32 family member A	Biological Replicate 2 Only	1
Q92688	Acidic leucine-rich nuclear phosphoprotein 32 family member B	Biological Replicate 2 Only	1
Q99798	Aconitate hydratase, mitochondrial	Biological Replicate 2 Only	1
P68032	Actin, alpha cardiac muscle 1	Biological 1 and 2	4
P68133	Actin, alpha skeletal muscle	Biological 1 and 2	4
P62736	Actin, aortic smooth muscle	Biological 1 and 2	4
P60709	Actin, cytoplasmic 1	Biological 1 and 2	4
P60709	Actin, cytoplasmic 1	Biological Replicate 2 Only	4
P63261	Actin, cytoplasmic 2	Biological 1 and 2	8
P63244	Actin, gamma-enteric smooth muscle	Biological 1 and 2	2
O96019	Actin-like protein 6A	Biological Replicate 2 Only	1
P61160	Actin-related protein 2	Biological Replicate 1 Only	1
P61158	Actin-related protein 3	Biological Replicate 1 Only	1
O95433	Activator of 90 kDa heat shock protein ATPase homolog 1	Biological 1 and 2	2
O95372	Acyl-protein thioesterase 2	Biological Replicate 1 Only	1
Q6P587	Acylpyruvase FAHD1, mitochondrial	Biological Replicate 2 Only	1
P23526	Adenosylhomocysteinase	Biological Replicate 2 Only	1
P54819	Adenylate kinase 2, mitochondrial	Biological Replicate 2 Only	1
P00568	Adenylate kinase isoenzyme 1	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q01518	Adenylyl cyclase-associated protein 1	Biological Replicate 2 Only	1
Q9HDC9	Adipocyte plasma membrane-associated protein	Biological Replicate 2 Only	1
P84077	ADP-ribosylation factor 1	Biological Replicate 1 Only	1
P61204	ADP-ribosylation factor 3	Biological Replicate 1 Only	1
P18085	ADP-ribosylation factor 4	Biological Replicate 1 Only	1
P10109	Adrenodoxin, mitochondrial	Biological Replicate 2 Only	1
Q03252	A-kinase anchor protein 12	Biological 1 and 2	2
P78371	A-kinase anchor protein 12	Biological 1 and 2	5
Q9ULX6	A-kinase anchor protein 8-like	Biological Replicate 2 Only	1
Q99996	A-kinase anchor protein 9	Biological Replicate 1 Only	1
P49588	Alanine--tRNA ligase, cytoplasmic	Biological Replicate 2 Only	1
P30837	Aldehyde dehydrogenase X, mitochondrial	Biological Replicate 2 Only	1
P05091	Aldehyde dehydrogenase, mitochondrial	Biological Replicate 1 Only	1
P12814	Alpha-actinin-1	Biological Replicate 2 Only	2
P35609	Alpha-actinin-2	Biological Replicate 2 Only	2
O43707	Alpha-actinin-4	Biological Replicate 2 Only	2
O43707	Alpha-actinin-4	Biological 1 and 2	5
P61163	Alpha-centractin	Biological Replicate 2 Only	2
O43768	Alpha-endosulfine	Biological Replicate 1 Only	1
P06733	Alpha-enolase	Biological 1 and 2	4
Q16352	Alpha-internexin	Biological Replicate 2 Only	2
P40222	Alpha-taxilin	Biological Replicate 2 Only	1
Q12904	Aminoacyl tRNA synthase complex-interacting multifunctional protein 1	Biological Replicate 2 Only	1
Q92870	Amyloid-beta A4 precursor protein-binding family B member 2	Biological Replicate 1 Only	1
Q4VCS5	Angiomotin	Biological 1 and 2	3
Q9P0K7	Ankycorbin	Biological Replicate 1 Only	2
P08758	Annexin A5	Biological Replicate 1 Only	2
P08133	Annexin A6	Biological Replicate 1 Only	1
Q10567	AP-1 complex subunit beta-1	Biological Replicate 1 Only	1
P63010	AP-2 complex subunit beta	Biological Replicate 1 Only	1
Q13625	Apoptosis-stimulating of p53 protein 2	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q9UKV3	Apoptotic chromatin condensation inducer in the nucleus	Biological 1 and 2	2
P53365	Arfaptin-2	Biological Replicate 1 Only	1
P14868	Aspartate--tRNA ligase, cytoplasmic	Biological Replicate 2 Only	1
Q9UBB4	Ataxin-10	Biological Replicate 1 Only	1
P06576	ATP synthase subunit beta, mitochondrial	Biological 1 and 2	9
O75947	ATP synthase subunit d, mitochondrial	Biological Replicate 2 Only	1
P56385	ATP synthase subunit e, mitochondrial	Biological Replicate 2 Only	1
P48047	ATP synthase subunit O, mitochondrial	Biological Replicate 2 Only	1
Q9NRK6	ATP-binding cassette sub-family B member 10, mitochondrial	Biological Replicate 2 Only	1
Q8NE71	ATP-binding cassette sub-family F member 1	Biological Replicate 2 Only	1
Q9UG63	ATP-binding cassette sub-family F member 2	Biological Replicate 2 Only	1
P53396	ATP-citrate synthase	Biological Replicate 2 Only	1
O76031	ATP-dependent Clp protease ATP-binding subunit clpX-like, mitochondrial	Biological Replicate 2 Only	1
Q16740	ATP-dependent Clp protease proteolytic subunit, mitochondrial	Biological Replicate 2 Only	2
Q08211	ATP-dependent RNA helicase A	Biological Replicate 2 Only	1
Q92499	ATP-dependent RNA helicase DDX1	Biological Replicate 2 Only	1
Q9NVP1	ATP-dependent RNA helicase DDX18	Biological Replicate 2 Only	1
Q9NUU7	ATP-dependent RNA helicase DDX19A	Biological Replicate 2 Only	1
Q9NUU7	ATP-dependent RNA helicase DDX19A	Biological Replicate 1 Only	1
Q9UMR2	ATP-dependent RNA helicase DDX19B	Biological Replicate 2 Only	1
Q9GZR7	ATP-dependent RNA helicase DDX24	Biological Replicate 2 Only	1
O00571	ATP-dependent RNA helicase DDX3X	Biological Replicate 2 Only	1
O15523	ATP-dependent RNA helicase DDX3Y	Biological Replicate 2 Only	1
Q7L2E3	ATP-dependent RNA helicase DHX30	Biological Replicate 2 Only	1
O14497	AT-rich interactive domain-containing protein 1A	Biological Replicate 1 Only	1
Q96GD4	Aurora kinase B	Biological Replicate 2 Only	1
O95816	BAG family molecular chaperone regulator 2	Biological Replicate 2 Only	1
O75531	Barrier-to-autointegration factor	Biological Replicate 2 Only	2
P35613	Basigin	Biological Replicate 2 Only	1
Q16611	Bcl-2 homologous antagonist/killer	Biological Replicate 2 Only	1
Q562R1	Beta-actin-like protein 2	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P42025	Beta-centractin	Biological Replicate 2 Only	1
Q92538	BFA-resistant GEF 1	Biological Replicate 2 Only	1
Q6ZP65	BICD family-like cargo adapter 1	Biological Replicate 2 Only	1
P07814	Bifunctional glutamate/proline--tRNA ligase	Biological Replicate 2 Only	1
P31939	Bifunctional purine biosynthesis protein PURH	Biological Replicate 2 Only	1
O95342	Bile salt export pump	Biological Replicate 1 Only	1
Q13867	Bleomycin hydrolase	Biological 1 and 2	3
Q8NFK5	BPI fold-containing family B member 6	Biological Replicate 2 Only	1
Q9P287	BRCA2 and CDKN1A-interacting protein	Biological Replicate 2 Only	1
O75815	Breast cancer anti-estrogen resistance protein 3	Biological Replicate 2 Only	1
Q969G3	BRG1-associated factor 57	Biological Replicate 2 Only	1
P25440	Bromodomain-containing protein 2	Biological Replicate 2 Only	1
Q15059	Bromodomain-containing protein 3	Biological Replicate 2 Only	1
O60885	Bromodomain-containing protein 4	Biological Replicate 2 Only	1
Q96CX2	BTB/POZ domain-containing protein KCTD12	Biological Replicate 2 Only	2
P11586	C-1-tetrahydrofolate synthase, cytoplasmic	Biological Replicate 1 Only	2
Q8IYU8	Calcium uptake protein 2, mitochondrial	Biological Replicate 2 Only	1
Q9HB71	Calcyclin-binding protein	Biological Replicate 2 Only	1
Q9BXY5	Calcyphosin-2	Biological 1 and 2	2
P0DP25	Calmodulin-3	Biological Replicate 2 Only	1
P27824	Calnexin	Biological Replicate 1 Only	2
P04632	Calpain small subunit 1	Biological Replicate 2 Only	1
P27797	Calreticulin	Biological 1 and 2	4
P13861	cAMP-dependent protein kinase type II-alpha regulatory subunit	Biological Replicate 2 Only	1
Q6ZU35	Cancer-related regulator of actin dynamics	Biological 1 and 2	2
Q14444	Caprin-1	Biological Replicate 2 Only	2
O75718	Cartilage-associated protein	Biological Replicate 2 Only	1
Q8WXD9	Caskin-1	Biological Replicate 2 Only	1
P35221	Catenin alpha-1	Biological 1 and 2	3
Q9UI47	Catenin alpha-3	Biological Replicate 2 Only	1
O60716	Catenin delta-1	Biological 1 and 2	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P07339	Cathepsin D	Biological 1 and 2	3
P48960	CD97 antigen	Biological Replicate 2 Only	1
Q99459	Cell division cycle 5-like protein	Biological 1 and 2	2
P41208	Centrin-2	Biological Replicate 2 Only	1
Q03188	Centromere protein C	Biological Replicate 1 Only	1
Q9H3R5	Centromere protein H	Biological Replicate 1 Only	1
O43264	Centromere/kinetochore protein zw10 homolog	Biological Replicate 2 Only	1
Q5SW79	Centrosomal protein of 170 kDa	Biological Replicate 2 Only	2
Q96GE4	Centrosomal protein of 95 kDa	Biological Replicate 2 Only	1
Q96L14	Cep170-like protein	Biological Replicate 2 Only	1
Q9Y696	Chloride intracellular channel protein 4	Biological Replicate 2 Only	1
Q13185	Chromobox protein homolog 3	Biological 1 and 2	2
Q14839	Chromodomain-helicase-DNA-binding protein 4	Biological Replicate 2 Only	2
Q96G28	Cilia- and flagella-associated protein 36	Biological 1 and 2	2
Q6ZU64	Cilia- and flagella-associated protein 65	Biological Replicate 2 Only	1
Q9C0B2	Cilia- and flagella-associated protein 74	Biological Replicate 2 Only	1
O75390	Citrate synthase, mitochondrial	Biological Replicate 2 Only	1
Q9HAW4	Claspin	Biological Replicate 2 Only	1
Q9C0J9	Class E basic helix-loop-helix protein 41	Biological Replicate 2 Only	1
Q00610	Clathrin heavy chain 1	Biological Replicate 2 Only	2
P53675	Clathrin heavy chain 2	Biological Replicate 2 Only	1
Q14677	Clathrin interactor 1	Biological Replicate 2 Only	1
Q9UKF6	Cleavage and polyadenylation specificity factor subunit 3	Biological Replicate 2 Only	1
Q16630	Cleavage and polyadenylation specificity factor subunit 6	Biological 1 and 2	2
P33240	Cleavage stimulation factor subunit 2	Biological Replicate 2 Only	1
P53621	Coatomer subunit alpha	Biological Replicate 2 Only	1
P48444	Coatomer subunit delta	Biological Replicate 2 Only	1
O14579	Coatomer subunit epsilon	Biological Replicate 2 Only	1
Q9Y678	Coatomer subunit gamma-1	Biological Replicate 2 Only	1
P23528	Cofilin-1	Biological Replicate 2 Only	1
Q96A33	Coiled-coil domain-containing protein 47	Biological 1 and 2	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q8NEL0	Coiled-coil domain-containing protein 54	Biological Replicate 1 Only	1
Q16204	Coiled-coil domain-containing protein 6	Biological Replicate 2 Only	1
Q9H6F5	Coiled-coil domain-containing protein 86	Biological Replicate 1 Only	1
P02452	Collagen alpha-1	Biological Replicate 1 Only	1
P08123	Collagen alpha-2	Biological Replicate 2 Only	1
P08572	Collagen alpha-2	Biological Replicate 2 Only	1
Q14031	Collagen alpha-6	Biological Replicate 1 Only	1
Q9BPX3	Condensin complex subunit 3	Biological Replicate 2 Only	1
Q8I WV2	Contactin-4	Biological Replicate 2 Only	1
Q9UNS2	COP9 signalosome complex subunit 3	Biological Replicate 2 Only	1
Q9BT78	COP9 signalosome complex subunit 4	Biological Replicate 2 Only	1
O75131	Copine-3	Biological Replicate 1 Only	1
O75367	Core histone macro-H2A.1	Biological Replicate 2 Only	1
Q9P0M6	Core histone macro-H2A.2	Biological Replicate 2 Only	1
Q9BR76	Coronin-1B	Biological Replicate 2 Only	1
P78310	Coxsackievirus and adenovirus receptor	Biological Replicate 2 Only	1
P12277	Creatine kinase B-type	Biological 1 and 2	7
P06732	Creatine kinase M-type	Biological Replicate 1 Only	1
P46109	Crk-like protein	Biological Replicate 1 Only	1
P17812	CTP synthase 1	Biological Replicate 1 Only	1
Q92879	CUGBP Elav-like family member 1	Biological Replicate 1 Only	1
Q8N6W0	CUGBP Elav-like family member 5	Biological Replicate 2 Only	1
P06493	Cyclin-dependent kinase 1	Biological 1 and 2	3
Q9BWU1	Cyclin-dependent kinase 19	Biological Replicate 2 Only	1
P24941	Cyclin-dependent kinase 2	Biological Replicate 2 Only	1
Q00535	Cyclin-dependent-like kinase 5	Biological Replicate 1 Only	1
Q9UHD1	Cysteine and histidine-rich domain-containing protein 1	Biological Replicate 2 Only	1
P31930	Cytochrome b-c1 complex subunit 1, mitochondrial	Biological Replicate 2 Only	1
P22695	Cytochrome b-c1 complex subunit 2, mitochondrial	Biological Replicate 1 Only	1
P20674	Cytochrome c oxidase subunit 5A, mitochondrial	Biological Replicate 2 Only	1
O00483	Cytochrome c oxidase subunit NDUF4A	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P08574	Cytochrome c1, heme protein, mitochondrial	Biological Replicate 1 Only	1
Q13409	Cytoplasmic dynein 1 intermediate chain 2	Biological 1 and 2	2
Q07065	Cytoskeleton-associated protein 4	Biological 1 and 2	2
Q14008	Cytoskeleton-associated protein 5	Biological Replicate 2 Only	1
P28838	Cytosol aminopeptidase	Biological 1 and 2	2
O43175	D-3-phosphoglycerate dehydrogenase	Biological Replicate 2 Only	2
Q96EP5	DAZ-associated protein 1	Biological Replicate 2 Only	2
Q5BKZ1	DBIRD complex subunit ZNF326	Biological Replicate 2 Only	1
Q9BTC0	Death-inducer obliterator 1	Biological Replicate 1 Only	1
Q92608	Dedicator of cytokinesis protein 2	Biological Replicate 2 Only	1
Q9Y238	Deleted in lung and esophageal cancer protein 1	Biological Replicate 1 Only	1
Q13011	Delta	Biological Replicate 1 Only	1
Q14126	Desmoglein-2	Biological Replicate 2 Only	2
Q9Y295	Developmentally-regulated GTP-binding protein 1	Biological Replicate 2 Only	1
P09622	Dihydrolipoyl dehydrogenase, mitochondrial	Biological Replicate 1 Only	1
Q16555	Dihydropyrimidinase-related protein 2	Biological Replicate 1 Only	1
Q9Y2E4	Disco-interacting protein 2 homolog C	Biological Replicate 1 Only	1
O43184	Disintegrin and metalloproteinase domain-containing protein 12	Biological Replicate 2 Only	1
Q12959	Disks large homolog 1	Biological Replicate 1 Only	1
P04053	DNA nucleotidylexotransferase	Biological Replicate 1 Only	1
Q92878	DNA repair protein RAD50	Biological Replicate 2 Only	1
P49736	DNA replication licensing factor MCM2	Biological Replicate 1 Only	1
P25205	DNA replication licensing factor MCM3	Biological 1 and 2	2
P22061	DNA replication licensing factor MCM3	Biological 1 and 2	3
P33991	DNA replication licensing factor MCM4	Biological 1 and 2	4
P33993	DNA replication licensing factor MCM7	Biological Replicate 2 Only	2
P11388	DNA topoisomerase 2-alpha	Biological Replicate 2 Only	1
Q02880	DNA topoisomerase 2-beta	Biological Replicate 2 Only	1
P78527	DNA-dependent protein kinase catalytic subunit	Biological Replicate 2 Only	1
O15160	DNA-directed RNA polymerases I and III subunit RPAC1	Biological Replicate 2 Only	1
P31689	DnaJ homolog subfamily A member 1	Biological Replicate 2 Only	3

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
O60884	DnaJ homolog subfamily A member 2	Biological Replicate 1 Only	1
Q99615	DnaJ homolog subfamily C member 7	Biological Replicate 1 Only	1
Q8WXX5	DnaJ homolog subfamily C member 9	Biological Replicate 1 Only	1
Q9P2X0	Dolichol-phosphate mannosyltransferase subunit 3	Biological Replicate 2 Only	1
Q9Y673	Dolichyl-phosphate beta-glucosyltransferase	Biological Replicate 2 Only	1
P49959	Double-strand break repair protein MRE11	Biological Replicate 2 Only	2
Q14919	Dr1-associated corepressor	Biological Replicate 1 Only	1
Q9UJU6	Drebrin-like protein	Biological Replicate 2 Only	1
P36507	Dual specificity mitogen-activated protein kinase kinase 2	Biological Replicate 2 Only	1
Q14203	Dynactin subunit 1	Biological 1 and 2	2
O00429	Dynamamin-1-like protein	Biological 1 and 2	2
Q8TE73	Dynein heavy chain 5, axonemal	Biological Replicate 2 Only	1
Q5VTR2	E3 ubiquitin-protein ligase BRE1A	Biological Replicate 1 Only	1
Q7Z6Z7	E3 ubiquitin-protein ligase HUWE1	Biological Replicate 2 Only	1
Q7Z6E9	E3 ubiquitin-protein ligase RBBP6	Biological Replicate 2 Only	1
Q9NWF9	E3 ubiquitin-protein ligase RNF216	Biological Replicate 2 Only	1
Q14669	E3 ubiquitin-protein ligase TRIP12	Biological Replicate 2 Only	1
Q96T88	E3 ubiquitin-protein ligase UHRF1	Biological Replicate 2 Only	1
Q16206	Ecto-NOX disulfide-thiol exchanger 2	Biological Replicate 1 Only	1
A4FU69	EF-hand calcium-binding domain-containing protein 5	Biological Replicate 1 Only	1
Q9H4M9	EH domain-containing protein 1	Biological 1 and 2	2
Q9NZN3	EH domain-containing protein 3	Biological 1 and 2	2
Q92616	eIF-2-alpha kinase activator GCN1	Biological Replicate 1 Only	1
Q15717	ELAV-like protein 1	Biological Replicate 2 Only	1
P68104	Elongation factor 1-alpha 1	Biological Replicate 2 Only	3
P68104	Elongation factor 1-alpha 1	Biological Replicate 2 Only	1
Q05639	Elongation factor 1-alpha 2	Biological Replicate 2 Only	1
P29692	Elongation factor 1-delta	Biological Replicate 2 Only	1
P13639	Elongation factor 2	Biological 1 and 2	13
P43897	Elongation factor Ts, mitochondrial	Biological Replicate 1 Only	1
P49368	Elongation factor Tu, mitochondrial	Biological 1 and 2	3

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q15369	Elongin-C	Biological Replicate 2 Only	1
P50402	Emerin	Biological Replicate 2 Only	1
Q99961	Endophilin-A2	Biological Replicate 2 Only	1
P11021	Endoplasmic reticulum chaperone BiP	Biological Replicate 2 Only	5
P14625	Endoplasmin	Biological 1 and 2	7
Q9UPY3	Endoribonuclease Dicer	Biological Replicate 2 Only	1
P30084	Enoyl-CoA hydratase, mitochondrial	Biological Replicate 1 Only	1
P60763	Eukaryotic initiation factor 4A-I	Biological 1 and 2	2
Q14240	Eukaryotic initiation factor 4A-II	Biological Replicate 2 Only	1
P38919	Eukaryotic initiation factor 4A-III	Biological Replicate 2 Only	1
P62495	Eukaryotic peptide chain release factor subunit 1	Biological Replicate 1 Only	2
P47813	Eukaryotic translation initiation factor 1A, X-chromosomal	Biological Replicate 2 Only	1
P05198	Eukaryotic translation initiation factor 2 subunit 1	Biological Replicate 2 Only	1
P20042	Eukaryotic translation initiation factor 2 subunit 2	Biological Replicate 2 Only	1
Q9BY44	Eukaryotic translation initiation factor 2A	Biological Replicate 2 Only	2
Q14152	Eukaryotic translation initiation factor 3 subunit A	Biological Replicate 2 Only	2
P55884	Eukaryotic translation initiation factor 3 subunit B	Biological 1 and 2	2
P55072	Eukaryotic translation initiation factor 3 subunit B	Biological 1 and 2	4
Q99613	Eukaryotic translation initiation factor 3 subunit C	Biological Replicate 2 Only	2
B5ME19	Eukaryotic translation initiation factor 3 subunit C-like protein	Biological Replicate 2 Only	2
O15371	Eukaryotic translation initiation factor 3 subunit D	Biological Replicate 2 Only	1
P60228	Eukaryotic translation initiation factor 3 subunit E	Biological Replicate 2 Only	1
O00303	Eukaryotic translation initiation factor 3 subunit F	Biological Replicate 2 Only	2
Q13347	Eukaryotic translation initiation factor 3 subunit I	Biological 1 and 2	2
Q7L2H7	Eukaryotic translation initiation factor 3 subunit M	Biological 1 and 2	2
Q04637	Eukaryotic translation initiation factor 4 gamma 1	Biological Replicate 1 Only	1
P78344	Eukaryotic translation initiation factor 4 gamma 2	Biological Replicate 2 Only	1
O60573	Eukaryotic translation initiation factor 4E type 2	Biological Replicate 1 Only	1
P63241	Eukaryotic translation initiation factor 5A-1	Biological 1 and 2	2
Q6IS14	Eukaryotic translation initiation factor 5A-1-like	Biological 1 and 2	2
Q9GZV4	Eukaryotic translation initiation factor 5A-2	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P56537	Eukaryotic translation initiation factor 6	Biological Replicate 2 Only	1
O14980	Exportin-1	Biological Replicate 2 Only	2
P54577	Exportin-2	Biological 1 and 2	2
Q9HAV4	Exportin-5	Biological 1 and 2	2
Q9Y5B9	FACT complex subunit SPT16	Biological Replicate 2 Only	1
Q08945	FACT complex subunit SSRP1	Biological Replicate 2 Only	1
P52907	F-actin-capping protein subunit alpha-1	Biological Replicate 2 Only	1
P47756	F-actin-capping protein subunit beta	Biological Replicate 1 Only	1
Q96AE4	Far upstream element-binding protein 1	Biological 1 and 2	2
Q92945	Far upstream element-binding protein 2	Biological 1 and 2	5
Q96I24	Far upstream element-binding protein 3	Biological Replicate 2 Only	2
P49321	Fatty acid synthase	Biological 1 and 2	2
P23142	Fibulin-1	Biological Replicate 2 Only	1
P21333	Filamin-A	Biological Replicate 2 Only	2
O75369	Filamin-B	Biological Replicate 2 Only	4
O75955	Flotillin-1	Biological Replicate 1 Only	1
Q14254	Flotillin-2	Biological Replicate 1 Only	1
P04075	Fructose-bisphosphate aldolase A	Biological Replicate 1 Only	1
P07954	Fumarate hydratase, mitochondrial	Biological Replicate 1 Only	2
Q13569	G/T mismatch-specific thymine DNA glycosylase	Biological Replicate 2 Only	1
Q9H3C7	Gametogenetin-binding protein 2	Biological Replicate 1 Only	1
Q07666	GAP-associated tyrosine phosphoprotein p62	Biological Replicate 1 Only	1
P35269	General transcription factor IIF subunit 1	Biological Replicate 1 Only	1
O60763	General vesicular transport factor p115	Biological Replicate 2 Only	1
Q8N2G8	GH3 domain-containing protein	Biological Replicate 2 Only	1
Q96EK6	Glucosamine 6-phosphate N-acetyltransferase	Biological Replicate 2 Only	1
P06744	Glucose-6-phosphate isomerase	Biological Replicate 2 Only	1
P14314	Glucosidase 2 subunit beta	Biological 1 and 2	2
P00367	Glutamate dehydrogenase 1, mitochondrial	Biological Replicate 1 Only	2
O94925	Glutaminase kidney isoform, mitochondrial	Biological Replicate 2 Only	1
P47897	Glutamine--tRNA ligase	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q92947	Glutaryl-CoA dehydrogenase, mitochondrial	Biological Replicate 2 Only	1
Q9Y2Q3	Glutathione S-transferase kappa 1	Biological 1 and 2	3
P78417	Glutathione S-transferase omega-1	Biological Replicate 2 Only	1
P04406	Glyceraldehyde-3-phosphate dehydrogenase	Biological Replicate 2 Only	3
A6NDG6	Glycerol-3-phosphate phosphatase	Biological Replicate 1 Only	1
Q07021	Glycoprotein gC1qBP	Biological 1 and 2	3
P49915	GMP synthase	Biological Replicate 1 Only	1
Q9H3P7	Golgi resident protein GCP60	Biological Replicate 1 Only	1
Q08378	Golgin subfamily A member 3	Biological Replicate 2 Only	1
Q9NYA3	Golgin subfamily A member 6A	Biological Replicate 2 Only	1
A6NDN3	Golgin subfamily A member 6B	Biological Replicate 2 Only	1
A6NDK9	Golgin subfamily A member 6C	Biological Replicate 2 Only	1
P0CG33	Golgin subfamily A member 6D	Biological Replicate 2 Only	1
Q9UHW5	GPN-loop GTPase 3	Biological Replicate 2 Only	1
Q6Y7W6	GRB10-interacting GYF protein 2	Biological Replicate 2 Only	1
Q4V328	GRIP1-associated protein 1	Biological Replicate 2 Only	1
Q9HAV7	GrpE protein homolog 1, mitochondrial	Biological Replicate 1 Only	1
O00178	GTP-binding protein 1	Biological Replicate 2 Only	1
Q9NR31	GTP-binding protein SAR1a	Biological Replicate 1 Only	1
P61952	Guanine nucleotide-binding protein G	Biological Replicate 1 Only	1
P62879	Guanine nucleotide-binding protein G	Biological Replicate 2 Only	1
Q9UBI6	Guanine nucleotide-binding protein G	Biological Replicate 2 Only	1
Q9BVP2	Guanine nucleotide-binding protein-like 3	Biological Replicate 1 Only	1
P32455	Guanylate-binding protein 1	Biological Replicate 1 Only	1
Q9BT25	HAUS augmin-like complex subunit 8	Biological Replicate 2 Only	1
P0DMV9	Heat shock 70 kDa protein 1B	Biological Replicate 2 Only	2
P0DMV9	Heat shock 70 kDa protein 1B	Biological 1 and 2	12
P34931	Heat shock 70 kDa protein 1-like	Biological Replicate 2 Only	4
P34932	Heat shock 70 kDa protein 4	Biological 1 and 2	2
P17066	Heat shock 70 kDa protein 6	Biological Replicate 2 Only	1
P17066	Heat shock 70 kDa protein 6	Biological Replicate 2 Only	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P11142	Heat shock cognate 71 kDa protein	Biological Replicate 2 Only	5
Q92598	Heat shock protein 105 kDa	Biological Replicate 1 Only	1
P07900	Heat shock protein HSP 90-alpha	Biological Replicate 2 Only	1
P08238	Heat shock protein HSP 90-beta	Biological 1 and 2	3
P08238	Heat shock protein HSP 90-beta	Biological Replicate 2 Only	1
P09601	Heme oxygenase 1	Biological 1 and 2	2
P30519	Heme oxygenase 2	Biological Replicate 1 Only	1
Q9NZC9	HepA-related protein	Biological Replicate 2 Only	1
P51858	Hepatoma-derived growth factor	Biological Replicate 1 Only	1
Q7Z4V5	Hepatoma-derived growth factor-related protein 2	Biological Replicate 1 Only	1
Q99729	Heterogeneous nuclear ribonucleoprotein A/B	Biological Replicate 2 Only	1
P09651	Heterogeneous nuclear ribonucleoprotein A1	Biological Replicate 2 Only	1
P51991	Heterogeneous nuclear ribonucleoprotein A3	Biological Replicate 2 Only	2
Q14103	Heterogeneous nuclear ribonucleoprotein D0	Biological 1 and 2	4
O14979	Heterogeneous nuclear ribonucleoprotein D-like	Biological 1 and 2	2
P52597	Heterogeneous nuclear ribonucleoprotein F	Biological Replicate 2 Only	1
P31943	Heterogeneous nuclear ribonucleoprotein H	Biological 1 and 2	5
P55795	Heterogeneous nuclear ribonucleoprotein H2	Biological 1 and 2	2
P55795	Heterogeneous nuclear ribonucleoprotein H2	Biological Replicate 2 Only	3
P31942	Heterogeneous nuclear ribonucleoprotein H3	Biological Replicate 1 Only	2
P61758	Heterogeneous nuclear ribonucleoprotein K	Biological 1 and 2	2
P14866	Heterogeneous nuclear ribonucleoprotein L	Biological Replicate 2 Only	4
O60506	Heterogeneous nuclear ribonucleoprotein Q	Biological Replicate 2 Only	3
O43390	Heterogeneous nuclear ribonucleoprotein R	Biological Replicate 2 Only	1
Q00839	Heterogeneous nuclear ribonucleoprotein U	Biological Replicate 2 Only	3
Q9BUJ2	Heterogeneous nuclear ribonucleoprotein U-like protein 1	Biological Replicate 1 Only	1
P22626	Heterogeneous nuclear ribonucleoproteins A2/B1	Biological Replicate 2 Only	4
P07910	Heterogeneous nuclear ribonucleoproteins C1/C2	Biological Replicate 2 Only	1
P19367	Hexokinase-1	Biological Replicate 2 Only	1
P52789	Hexokinase-2	Biological Replicate 2 Only	1
P52790	Hexokinase-3	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q6UWX4	HHIP-like protein 2	Biological Replicate 2 Only	1
P09429	High mobility group protein B1	Biological 1 and 2	2
P26583	High mobility group protein B2	Biological Replicate 2 Only	1
O15347	High mobility group protein B3	Biological Replicate 2 Only	1
P49773	Histidine triad nucleotide-binding protein 1	Biological Replicate 1 Only	1
Q13547	Histone deacetylase 1	Biological 1 and 2	3
Q92769	Histone deacetylase 2	Biological 1 and 2	3
Q92769	Histone deacetylase 2	Biological Replicate 2 Only	2
P16401	Histone H1.5	Biological Replicate 2 Only	1
P0C0S8	Histone H2A type 1	Biological Replicate 2 Only	1
P04908	Histone H2A type 1-B/E	Biological Replicate 2 Only	1
Q93077	Histone H2A type 1-C	Biological Replicate 2 Only	1
P20671	Histone H2A type 1-D	Biological Replicate 2 Only	1
Q96KK5	Histone H2A type 1-H	Biological Replicate 2 Only	1
Q99878	Histone H2A type 1-J	Biological Replicate 2 Only	1
Q6F113	Histone H2A type 2-A	Biological Replicate 2 Only	1
Q16777	Histone H2A type 2-C	Biological Replicate 2 Only	1
Q7L7L0	Histone H2A type 3	Biological Replicate 2 Only	1
Q9BTM1	Histone H2A.J	Biological Replicate 2 Only	1
Q96A08	Histone H2B type 1-A	Biological 1 and 2	2
P33778	Histone H2B type 1-B	Biological 1 and 2	5
P62807	Histone H2B type 1-C/E/F/G/I	Biological 1 and 2	4
P58876	Histone H2B type 1-D	Biological 1 and 2	4
Q93079	Histone H2B type 1-H	Biological 1 and 2	4
P06899	Histone H2B type 1-J	Biological 1 and 2	5
O60814	Histone H2B type 1-K	Biological 1 and 2	4
Q99880	Histone H2B type 1-L	Biological 1 and 2	3
Q99879	Histone H2B type 1-M	Biological 1 and 2	4
Q99877	Histone H2B type 1-N	Biological 1 and 2	4
P23527	Histone H2B type 1-O	Biological 1 and 2	5
Q16778	Histone H2B type 2-E	Biological 1 and 2	5

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q5QNW6	Histone H2B type 2-F	Biological 1 and 2	4
Q8N257	Histone H2B type 3-B	Biological 1 and 2	4
P57053	Histone H2B type F-S	Biological 1 and 2	4
P62805	Histone H4	Biological Replicate 2 Only	2
Q99525	Histone H4-like protein type G	Biological Replicate 1 Only	1
Q16576	Histone-binding protein RBBP7	Biological Replicate 2 Only	3
Q9NR48	Histone-lysine N-methyltransferase ASH1L	Biological 1 and 2	2
O43719	HIV Tat-specific factor 1	Biological Replicate 1 Only	1
P51610	Host cell factor 1	Biological Replicate 1 Only	1
P50502	Hsc70-interacting protein	Biological Replicate 2 Only	1
Q9NZL4	Hsp70-binding protein 1	Biological Replicate 1 Only	1
Q16543	Hsp90 co-chaperone Cdc37	Biological Replicate 1 Only	1
Q6YN16	Hydroxysteroid dehydrogenase-like protein 2	Biological Replicate 2 Only	2
Q9Y4L1	Hypoxia up-regulated protein 1	Biological Replicate 2 Only	3
P52292	Importin subunit alpha-1	Biological Replicate 2 Only	2
Q14974	Importin subunit beta-1	Biological 1 and 2	2
Q8TEX9	Importin-4	Biological Replicate 2 Only	1
O00410	Importin-5	Biological Replicate 2 Only	1
O95373	Importin-7	Biological Replicate 2 Only	1
Q15181	Inorganic pyrophosphatase	Biological Replicate 1 Only	1
P12268	Inosine-5'-monophosphate dehydrogenase 2	Biological Replicate 2 Only	2
Q9NPH2	Inositol-3-phosphate synthase 1	Biological Replicate 2 Only	1
Q9NZI8	Insulin-like growth factor 2 mRNA-binding protein 1	Biological Replicate 2 Only	1
Q9Y6M1	Insulin-like growth factor 2 mRNA-binding protein 2	Biological Replicate 2 Only	1
O00425	Insulin-like growth factor 2 mRNA-binding protein 3	Biological Replicate 2 Only	1
O00425	Insulin-like growth factor 2 mRNA-binding protein 3	Biological Replicate 1 Only	1
Q9H0C8	Integrin-linked kinase-associated serine/threonine phosphatase 2C	Biological Replicate 2 Only	1
Q13418	Integrin-linked protein kinase	Biological 1 and 2	2
Q86UX2	Inter-alpha-trypsin inhibitor heavy chain H5	Biological Replicate 2 Only	1
P19525	Interferon-induced, double-stranded RNA-activated protein kinase	Biological Replicate 2 Only	1
Q12905	Interleukin enhancer-binding factor 2	Biological 1 and 2	3

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q12906	Interleukin enhancer-binding factor 3	Biological 1 and 2	7
Q96AB3	Isochorismatase domain-containing protein 2	Biological Replicate 2 Only	1
O43837	Isocitrate dehydrogenase	Biological Replicate 2 Only	3
P48735	Isocitrate dehydrogenase	Biological Replicate 2 Only	1
P41252	Isoleucine--tRNA ligase, cytoplasmic	Biological Replicate 2 Only	1
O94819	Kelch repeat and BTB domain-containing protein 11	Biological Replicate 2 Only	1
P05783	Keratin, type I cytoskeletal 18	Biological Replicate 1 Only	1
P05787	Keratin, type II cytoskeletal 8	Biological Replicate 2 Only	1
Q8IVT5	Kinase suppressor of Ras 1	Biological Replicate 1 Only	1
Q86UP2	Kinectin	Biological 1 and 2	3
P33176	Kinesin-1 heavy chain	Biological Replicate 2 Only	2
Q9H9P8	L-2-hydroxyglutarate dehydrogenase, mitochondrial	Biological Replicate 2 Only	1
Q04760	Lactoylglutathione lyase	Biological Replicate 1 Only	1
P42025	Lamina-associated polypeptide 2, isoform alpha	Biological Replicate 2 Only	1
P18669	Lamin-B1	Biological 1 and 2	3
Q02952	Lamin-B2	Biological 1 and 2	2
Q6PKG0	La-related protein 1	Biological Replicate 2 Only	1
Q92615	La-related protein 4B	Biological Replicate 1 Only	1
Q4G0J3	La-related protein 7	Biological Replicate 1 Only	1
P46379	Large proline-rich protein BAG6	Biological Replicate 1 Only	2
P42166	Leucine-rich PPR motif-containing protein, mitochondrial	Biological Replicate 2 Only	1
Q9Y608	Leucine-rich repeat flightless-interacting protein 2	Biological Replicate 2 Only	1
O75325	Leucine-rich repeat neuronal protein 2	Biological Replicate 1 Only	1
Q96AG4	Leucine-rich repeat-containing protein 59	Biological Replicate 2 Only	1
Q9P2J5	Leucine--tRNA ligase, cytoplasmic	Biological Replicate 2 Only	1
P09960	Leukotriene A-4 hydrolase	Biological Replicate 2 Only	1
Q86W92	Liprin-beta-1	Biological Replicate 2 Only	1
P00338	L-lactate dehydrogenase A chain	Biological Replicate 1 Only	2
P07195	L-lactate dehydrogenase B chain	Biological Replicate 1 Only	1
P36776	Lon protease homolog, mitochondrial	Biological Replicate 2 Only	1
P05455	Lupus La protein	Biological Replicate 1 Only	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q9NRZ9	Lymphoid-specific helicase	Biological Replicate 1 Only	1
Q8NHM5	Lysine-specific demethylase 2B	Biological Replicate 2 Only	1
O60341	Lysine-specific histone demethylase 1A	Biological Replicate 2 Only	1
Q15046	Lysine--tRNA ligase	Biological Replicate 1 Only	2
P10253	Lysosomal alpha-glucosidase	Biological Replicate 1 Only	1
Q9NZW5	MAGUK p55 subfamily member 6	Biological Replicate 2 Only	1
P40926	Malate dehydrogenase, mitochondrial	Biological Replicate 2 Only	3
O43451	Maltase-glucoamylase, intestinal	Biological Replicate 1 Only	1
P42704	Matrin-3	Biological Replicate 2 Only	3
P30153	Medium tumor antigen-associated 61 kDa protein	Biological Replicate 2 Only	1
O60732	Melanoma-associated antigen C1	Biological Replicate 1 Only	1
Q6ZN28	Metastasis-associated in colon cancer protein 1	Biological Replicate 1 Only	1
P56192	Methionine--tRNA ligase, cytoplasmic	Biological Replicate 2 Only	1
O95983	Methyl-CpG-binding domain protein 3	Biological Replicate 2 Only	1
P22033	Methylmalonyl-CoA mutase, mitochondrial	Biological Replicate 1 Only	1
Q9BRQ6	MICOS complex subunit MIC25	Biological Replicate 2 Only	1
Q16891	MICOS complex subunit MIC60	Biological Replicate 2 Only	1
P27816	Microtubule-associated protein 4	Biological Replicate 1 Only	2
Q9NZJ7	Mitochondrial carrier homolog 1	Biological Replicate 2 Only	1
O14925	Mitochondrial import inner membrane translocase subunit Tim23	Biological Replicate 2 Only	1
Q9NS69	Mitochondrial import receptor subunit TOM22 homolog	Biological Replicate 2 Only	1
O96008	Mitochondrial import receptor subunit TOM40 homolog	Biological Replicate 2 Only	1
O94826	Mitochondrial import receptor subunit TOM70	Biological Replicate 2 Only	2
O95202	Mitochondrial proton/calcium exchanger protein	Biological Replicate 2 Only	1
P28482	Mitogen-activated protein kinase 1	Biological Replicate 2 Only	1
O43684	Mitotic checkpoint protein BUB3	Biological 1 and 2	3
Q6NZ67	Mitotic-spindle organizing protein 2B	Biological 1 and 2	2
P26038	Moesin	Biological Replicate 2 Only	1
P78406	mRNA export factor	Biological Replicate 1 Only	1
Q9NPI6	mRNA-decapping enzyme 1A	Biological Replicate 2 Only	1
P22234	Multifunctional protein ADE2	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q96EY5	Multivesicular body subunit 12A	Biological Replicate 2 Only	1
Q6P1R3	Myb/SANT-like DNA-binding domain-containing protein 2	Biological Replicate 2 Only	1
Q9BQG0	Myb-binding protein 1A	Biological Replicate 2 Only	2
Q15773	Myeloid leukemia factor 2	Biological Replicate 2 Only	1
P13349	Myogenic factor 5	Biological Replicate 2 Only	1
P05976	Myosin light chain 1/3, skeletal muscle isoform	Biological Replicate 1 Only	1
P08590	Myosin light chain 3	Biological Replicate 1 Only	1
P60660	Myosin light polypeptide 6	Biological Replicate 2 Only	1
P19105	Myosin regulatory light chain 12A	Biological Replicate 2 Only	1
P35579	Myosin-10	Biological 1 and 2	7
P35580	Myosin-11	Biological 1 and 2	6
Q7Z406	Myosin-14	Biological 1 and 2	2
P35579	Myosin-9	Biological 1 and 2	2
Q13423	NAD	Biological Replicate 2 Only	1
O00217	NADH dehydrogenase	Biological Replicate 2 Only	1
O75380	NADH dehydrogenase	Biological Replicate 2 Only	1
P17568	NADH dehydrogenase	Biological Replicate 1 Only	1
P19404	NADH dehydrogenase	Biological Replicate 1 Only	1
Q16718	NADH dehydrogenase	Biological 1 and 2	2
P00387	NADH-cytochrome b5 reductase 3	Biological Replicate 2 Only	1
P28331	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial	Biological Replicate 2 Only	1
P41227	N-alpha-acetyltransferase 10	Biological Replicate 1 Only	1
P41227	N-alpha-acetyltransferase 10	Biological Replicate 2 Only	1
Q9BSU3	N-alpha-acetyltransferase 11	Biological Replicate 1 Only	1
P15882	N-chimaerin	Biological Replicate 2 Only	1
P18615	Negative elongation factor E	Biological Replicate 2 Only	1
Q8WXH0	Nesprin-2	Biological Replicate 1 Only	1
A2RRP1	Neuroblastoma-amplified sequence	Biological Replicate 2 Only	1
P12036	Neurofilament heavy polypeptide	Biological Replicate 2 Only	2
P07196	Neurofilament light polypeptide	Biological 1 and 2	5
P07197	Neurofilament medium polypeptide	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P07197	Neurofilament medium polypeptide	Biological Replicate 2 Only	2
Q04721	Neurogenic locus notch homolog protein 2	Biological Replicate 2 Only	1
Q8NEJ9	Neuroguidin	Biological Replicate 1 Only	1
O15240	Neurosecretory protein VGF	Biological Replicate 1 Only	1
P55769	NHP2-like protein 1	Biological Replicate 2 Only	1
Q969V3	Nicalin	Biological Replicate 2 Only	1
Q9Y314	Nitric oxide synthase-interacting protein	Biological Replicate 2 Only	1
Q15155	Nodal modulator 1	Biological 1 and 2	2
Q5JPE7	Nodal modulator 2	Biological 1 and 2	2
P69849	Nodal modulator 3	Biological 1 and 2	2
Q15233	Non-POU domain-containing octamer-binding protein	Biological Replicate 2 Only	5
P46782	Nuclear autoantigenic sperm protein	Biological 1 and 2	2
Q7Z417	Nuclear fragile X mental retardation-interacting protein 2	Biological Replicate 1 Only	1
Q9Y266	Nuclear migration protein nudC	Biological Replicate 2 Only	1
Q9HCD5	Nuclear receptor coactivator 5	Biological 1 and 2	3
Q9H1E3	Nuclear ubiquitous casein and cyclin-dependent kinase substrate 1	Biological Replicate 1 Only	1
P67809	Nuclease-sensitive element-binding protein 1	Biological Replicate 2 Only	1
Q8WTT2	Nucleolar complex protein 3 homolog	Biological Replicate 2 Only	1
P78316	Nucleolar protein 14	Biological Replicate 2 Only	1
Q9H6R4	Nucleolar protein 6	Biological Replicate 1 Only	1
Q9NR30	Nucleolar RNA helicase 2	Biological Replicate 2 Only	2
P17480	Nucleolar transcription factor 1	Biological Replicate 2 Only	1
P19338	Nucleolin	Biological Replicate 2 Only	2
P31483	Nucleolysin TIA-1 isoform p40	Biological Replicate 2 Only	1
Q01085	Nucleolysin TIAR	Biological Replicate 2 Only	1
P06748	Nucleophosmin	Biological Replicate 2 Only	3
Q7Z3B4	Nucleoporin p54	Biological Replicate 2 Only	1
Q9BVL2	Nucleoporin p58/p45	Biological Replicate 2 Only	1
P12270	Nucleoprotein TPR	Biological 1 and 2	4
P15531	Nucleoside diphosphate kinase A	Biological 1 and 2	3
P22392	Nucleoside diphosphate kinase B	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P55209	Nucleosome assembly protein 1-like 1	Biological Replicate 2 Only	1
Q99733	Nucleosome assembly protein 1-like 4	Biological Replicate 2 Only	1
A1L443	NUT family member 2F	Biological Replicate 1 Only	1
Q5VZR2	NUT family member 2G	Biological Replicate 1 Only	1
Q9NX40	OCIA domain-containing protein 1	Biological Replicate 1 Only	1
P04181	Ornithine aminotransferase, mitochondrial	Biological Replicate 2 Only	1
Q6GQQ9	OTU domain-containing protein 7B	Biological 1 and 2	2
Q9NX31	Oxidative stress-responsive serine-rich protein 1	Biological Replicate 2 Only	1
O75475	PC4 and SFRS1-interacting protein	Biological Replicate 2 Only	2
O00151	PDZ and LIM domain protein 1	Biological Replicate 2 Only	1
Q53GG5	PDZ and LIM domain protein 3	Biological Replicate 1 Only	1
O14908	PDZ domain-containing protein GIPC1	Biological Replicate 2 Only	1
Q96EY7	Pentatricopeptide repeat domain-containing protein 3, mitochondrial	Biological Replicate 1 Only	1
P62937	Peptidyl-prolyl cis-trans isomerase A	Biological Replicate 2 Only	3
P62937	Peptidyl-prolyl cis-trans isomerase A	Biological Replicate 2 Only	1
Q9Y536	Peptidyl-prolyl cis-trans isomerase A-like 4A	Biological Replicate 2 Only	1
P23284	Peptidyl-prolyl cis-trans isomerase B	Biological Replicate 2 Only	2
P30405	Peptidyl-prolyl cis-trans isomerase F, mitochondrial	Biological Replicate 2 Only	1
Q00688	Peptidyl-prolyl cis-trans isomerase FKBP3	Biological Replicate 2 Only	1
Q13526	Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1	Biological 1 and 2	2
Q9Y3C6	Peptidyl-prolyl cis-trans isomerase-like 1	Biological Replicate 2 Only	1
Q9Y3E5	Peptidyl-tRNA hydrolase 2, mitochondrial	Biological Replicate 1 Only	1
P41219	Peripherin	Biological 1 and 2	2
Q8NEY8	Periphilin-1	Biological Replicate 1 Only	1
Q06830	Peroxiredoxin-1	Biological 1 and 2	4
P30041	Peroxiredoxin-6	Biological Replicate 2 Only	2
Q9Y285	Phenylalanine--tRNA ligase alpha subunit	Biological 1 and 2	3
Q8IZ21	Phosphatase and actin regulator 4	Biological Replicate 2 Only	1
P48739	Phosphatidylinositol transfer protein beta isoform	Biological Replicate 1 Only	1
P00558	Phosphoglycerate kinase 1	Biological 1 and 2	4
P18669	Phosphoglycerate mutase 1	Biological 1 and 2	3

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
O43520	Phospholipid-transporting ATPase IC	Biological Replicate 2 Only	1
O60423	Phospholipid-transporting ATPase IK	Biological Replicate 1 Only	1
O15067	Phosphoribosylformylglycinamide synthase	Biological Replicate 2 Only	1
Q9H307	Pinin	Biological Replicate 1 Only	2
Q8NC51	Plasminogen activator inhibitor 1 RNA-binding protein	Biological 1 and 2	2
P13796	Plastin-2	Biological Replicate 2 Only	2
P13797	Plastin-3	Biological Replicate 2 Only	2
P13797	Plastin-3	Biological Replicate 2 Only	1
Q15149	Plectin	Biological Replicate 2 Only	1
O43660	Pleiotropic regulator 1	Biological Replicate 2 Only	1
Q7Z3K3	Pogo transposable element with ZNF domain	Biological Replicate 2 Only	1
P09874	Poly [ADP-ribose] polymerase 1	Biological Replicate 2 Only	2
Q15365	Poly(rC)-binding protein 1	Biological Replicate 1 Only	1
Q15365	Poly(rC)-binding protein 1	Biological 1 and 2	5
Q15366	Poly(rC)-binding protein 2	Biological 1 and 2	3
Q15366	Poly(rC)-binding protein 2	Biological Replicate 2 Only	1
P11940	Polyadenylate-binding protein 1	Biological Replicate 2 Only	5
P11940	Polyadenylate-binding protein 1	Biological Replicate 1 Only	1
Q4VXU2	Polyadenylate-binding protein 1-like	Biological Replicate 2 Only	1
Q9H361	Polyadenylate-binding protein 3	Biological Replicate 2 Only	4
Q13310	Polyadenylate-binding protein 4	Biological Replicate 2 Only	2
Q13310	Polyadenylate-binding protein 4	Biological 1 and 2	3
Q9Y2S7	Polymerase delta-interacting protein 2	Biological Replicate 2 Only	1
P26599	Polypyrimidine tract-binding protein 1	Biological 1 and 2	3
P20648	Potassium-transporting ATPase alpha chain 1	Biological Replicate 2 Only	1
P54707	Potassium-transporting ATPase alpha chain 2	Biological Replicate 2 Only	1
Q6S8J3	POTE ankyrin domain family member E	Biological Replicate 1 Only	1
A5A3E0	POTE ankyrin domain family member F	Biological Replicate 1 Only	1
P0CG38	POTE ankyrin domain family member I	Biological Replicate 1 Only	1
P0CG39	POTE ankyrin domain family member J	Biological Replicate 1 Only	1
P61011	Prefoldin subunit 3	Biological 1 and 2	3

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P02545	Prelamin-A/C	Biological Replicate 2 Only	3
Q9C0J8	pre-mRNA 3' end processing protein WDR33	Biological 1 and 2	2
Q6UN15	Pre-mRNA 3'-end-processing factor FIP1	Biological Replicate 2 Only	1
O75400	Pre-mRNA-processing factor 40 homolog A	Biological Replicate 1 Only	1
Q6P2Q9	Pre-mRNA-processing-splicing factor 8	Biological Replicate 2 Only	3
Q99633	Pre-mRNA-splicing factor 18	Biological Replicate 2 Only	1
Q5VTL8	Pre-mRNA-splicing factor 38B	Biological Replicate 2 Only	1
O43143	Pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15	Biological Replicate 2 Only	1
O95391	Pre-mRNA-splicing factor SLU7	Biological Replicate 1 Only	1
O75934	Pre-mRNA-splicing factor SPF27	Biological Replicate 1 Only	1
Q5JRX3	Presequence protease, mitochondrial	Biological Replicate 1 Only	1
P58743	Prestin	Biological Replicate 2 Only	1
P45974	Probable 28S rRNA	Biological Replicate 2 Only	1
Q7L014	Probable ATP-dependent RNA helicase DDX46	Biological 1 and 2	2
P17844	Probable ATP-dependent RNA helicase DDX5	Biological 1 and 2	4
P26196	Probable ATP-dependent RNA helicase DDX6	Biological Replicate 2 Only	1
Q5JPH6	Probable glutamate--tRNA ligase, mitochondrial	Biological Replicate 1 Only	1
Q8N0Y7	Probable phosphoglycerate mutase 4	Biological 1 and 2	3
Q9NPF4	Probable tRNA N6-adenosine threonylcarbamoyltransferase	Biological Replicate 2 Only	1
Q8WUM4	Programmed cell death 6-interacting protein	Biological Replicate 1 Only	1
Q9BUL8	Programmed cell death protein 10	Biological Replicate 1 Only	1
Q99623	Prohibitin-2	Biological Replicate 2 Only	1
P12004	Proliferating cell nuclear antigen	Biological 1 and 2	2
P46013	Proliferation marker protein Ki-67	Biological Replicate 1 Only	1
Q9UQ80	Proliferation-associated protein 2G4	Biological Replicate 1 Only	1
O43272	Proline dehydrogenase 1, mitochondrial	Biological Replicate 1 Only	1
Q32P28	Prolyl 3-hydroxylase 1	Biological 1 and 2	2
Q15185	Prostaglandin E synthase 3	Biological 1 and 2	2
Q8N8N7	Prostaglandin reductase 2	Biological Replicate 2 Only	1
Q06323	Proteasome activator complex subunit 1	Biological Replicate 2 Only	1
P61289	Proteasome activator complex subunit 3	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P49721	Proteasome subunit beta type-2	Biological Replicate 1 Only	1
P28070	Proteasome subunit beta type-4	Biological Replicate 2 Only	1
Q9NY61	Protein AATF	Biological Replicate 2 Only	2
Q9ULJ1	Protein BCAP	Biological Replicate 1 Only	1
P62324	Protein BTG1	Biological Replicate 1 Only	1
O60610	Protein diaphanous homolog 1	Biological Replicate 2 Only	1
P07237	Protein disulfide-isomerase	Biological 1 and 2	2
P30101	Protein disulfide-isomerase A3	Biological Replicate 2 Only	1
P13667	Protein disulfide-isomerase A4	Biological Replicate 2 Only	2
Q15084	Protein disulfide-isomerase A6	Biological Replicate 1 Only	1
Q52LJ0	Protein FAM98B	Biological Replicate 1 Only	1
Q92636	Protein FAN	Biological Replicate 2 Only	1
Q9UJC3	Protein Hook homolog 1	Biological Replicate 1 Only	1
Q9UNF0	Protein kinase C and casein kinase substrate in neurons protein 2	Biological Replicate 2 Only	1
P61326	Protein mago nashi homolog	Biological Replicate 2 Only	1
Q96A72	Protein mago nashi homolog 2	Biological Replicate 2 Only	1
Q92597	Protein NDRG1	Biological Replicate 1 Only	1
Q96TA1	Protein Niban 2	Biological Replicate 1 Only	1
Q13438	Protein OS-9	Biological Replicate 2 Only	1
O14974	Protein phosphatase 1 regulatory subunit 12A	Biological Replicate 2 Only	1
Q8WYL5	Protein phosphatase Slingshot homolog 1	Biological Replicate 2 Only	1
Q13123	Protein Red	Biological Replicate 1 Only	1
Q14690	Protein RRP5 homolog	Biological Replicate 2 Only	1
P31949	Protein S100-A11	Biological Replicate 2 Only	1
P18583	Protein SON	Biological 1 and 2	2
Q9H9S3	Protein transport protein Sec61 subunit alpha isoform 2	Biological Replicate 1 Only	1
Q9H3U1	Protein unc-45 homolog A	Biological Replicate 2 Only	1
Q8NE65	Protein ZNF738	Biological Replicate 1 Only	1
Q99497	Protein/nucleic acid deglycase DJ-1	Biological Replicate 2 Only	2
Q32M88	Protein-glucosylgalactosylhydroxylysine glucosidase	Biological Replicate 1 Only	1
P20700	Protein-L-isoaspartate	Biological 1 and 2	5

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P04201	Proto-oncogene Mas	Biological Replicate 1 Only	1
Q9NQ39	Putative 40S ribosomal protein S10-like	Biological Replicate 2 Only	2
Q9BYX7	Putative beta-actin-like protein 3	Biological Replicate 1 Only	1
Q6NSW5	Putative DENN domain-containing protein 10 B	Biological Replicate 2 Only	1
Q5VTE0	Putative elongation factor 1-alpha-like 3	Biological Replicate 2 Only	4
P48741	Putative heat shock 70 kDa protein 7	Biological Replicate 2 Only	2
Q58FG1	Putative heat shock protein HSP 90-alpha A4	Biological Replicate 2 Only	1
Q58FG1	Putative heat shock protein HSP 90-alpha A4	Biological 1 and 2	2
Q6DN03	Putative histone H2B type 2-C	Biological Replicate 2 Only	1
Q6DRA6	Putative histone H2B type 2-D	Biological Replicate 2 Only	1
Q15486	Putative inactive beta-glucuronidase-like protein SMA3	Biological Replicate 1 Only	1
Q5SRD1	Putative mitochondrial import inner membrane translocase subunit Tim23B	Biological Replicate 2 Only	1
O60361	Putative nucleoside diphosphate kinase	Biological Replicate 2 Only	1
Q8NFI4	Putative protein FAM10A5	Biological Replicate 2 Only	1
A6NC97	Putative protein FAM172B	Biological Replicate 1 Only	1
Q8N6K4	Putative uncharacterized protein MGC34800	Biological Replicate 2 Only	1
Q6P996	Pyridoxal-dependent decarboxylase domain-containing protein 1	Biological Replicate 1 Only	1
Q9NVS9	Pyridoxine-5'-phosphate oxidase	Biological Replicate 1 Only	1
P11177	Pyruvate dehydrogenase E1 component subunit beta, mitochondrial	Biological Replicate 2 Only	2
P14618	Pyruvate kinase PKM	Biological 1 and 2	5
P31150	Rab GDP dissociation inhibitor alpha	Biological Replicate 1 Only	2
P50395	Rab GDP dissociation inhibitor beta	Biological Replicate 1 Only	1
P50395	Rab GDP dissociation inhibitor beta	Biological Replicate 1 Only	1
Q3YEC7	Rab-like protein 6	Biological Replicate 1 Only	1
P35241	Radixin	Biological Replicate 2 Only	1
P43686	Ran GTPase-activating protein 1	Biological 1 and 2	4
Q9UHV5	Rap guanine nucleotide exchange factor-like 1	Biological Replicate 1 Only	1
P52306	Rap1 GTPase-GDP dissociation stimulator 1	Biological Replicate 2 Only	1
Q13283	Ras GTPase-activating protein-binding protein 1	Biological 1 and 2	3
Q9UN86	Ras GTPase-activating protein-binding protein 2	Biological Replicate 2 Only	3
P63000	Ras-related C3 botulinum toxin substrate 1	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P57721	Ras-related C3 botulinum toxin substrate 3	Biological 1 and 2	3
P51149	Ras-related protein Rab-7a	Biological Replicate 2 Only	1
P62910	Receptor of activated protein C kinase 1	Biological 1 and 2	3
P18754	Regulator of chromosome condensation	Biological Replicate 1 Only	2
O43566	Regulator of G-protein signaling 14	Biological Replicate 2 Only	1
Q96DM3	Regulator of MON1-CCZ1 complex	Biological Replicate 2 Only	1
Q15293	Reticulocalbin-1	Biological Replicate 1 Only	1
Q9NQC3	Reticulon-4	Biological Replicate 2 Only	1
O75106	Retina-specific copper amine oxidase	Biological 1 and 2	2
Q9HB40	Retinoid-inducible serine carboxypeptidase	Biological Replicate 1 Only	1
P52565	Rho GDP-dissociation inhibitor 1	Biological Replicate 1 Only	1
Q14CB8	Rho GTPase-activating protein 19	Biological Replicate 2 Only	1
Q5TG30	Rho GTPase-activating protein 40	Biological Replicate 1 Only	1
Q12774	Rho guanine nucleotide exchange factor 5	Biological Replicate 1 Only	1
P08134	Rho-related GTP-binding protein RhoC	Biological Replicate 1 Only	1
P60891	Ribose-phosphate pyrophosphokinase 1	Biological Replicate 2 Only	1
P11908	Ribose-phosphate pyrophosphokinase 2	Biological Replicate 2 Only	1
Q9Y4W2	Ribosomal biogenesis protein LAS1L	Biological 1 and 2	2
Q9Y3A5	Ribosome maturation protein SBDS	Biological Replicate 2 Only	1
Q96E11	Ribosome-recycling factor, mitochondrial	Biological Replicate 2 Only	1
Q9C0B0	RING finger protein unkempt homolog	Biological Replicate 2 Only	1
O43251	RNA binding protein fox-1 homolog 2	Biological Replicate 2 Only	1
Q9H0A0	RNA cytidine acetyltransferase	Biological Replicate 2 Only	1
Q8N7H5	RNA polymerase II-associated factor 1 homolog	Biological Replicate 2 Only	2
P38159	RNA-binding motif protein, X chromosome	Biological Replicate 1 Only	1
O75526	RNA-binding motif protein, X-linked-like-2	Biological Replicate 1 Only	1
P98175	RNA-binding protein 10	Biological Replicate 2 Only	1
Q96PK6	RNA-binding protein 14	Biological Replicate 1 Only	2
Q96T37	RNA-binding protein 15	Biological Replicate 2 Only	1
P49756	RNA-binding protein 25	Biological Replicate 2 Only	1
Q14498	RNA-binding protein 39	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q9BWF3	RNA-binding protein 4	Biological 1 and 2	3
Q9BWF3	RNA-binding protein 4	Biological Replicate 1 Only	1
Q9BQ04	RNA-binding protein 4B	Biological 1 and 2	3
P52756	RNA-binding protein 5	Biological Replicate 1 Only	1
Q86SE5	RNA-binding Raly-like protein	Biological Replicate 2 Only	1
Q5JTH9	RRP12-like protein	Biological Replicate 2 Only	1
Q9Y265	RuvB-like 1	Biological 1 and 2	2
Q9Y230	RuvB-like 2	Biological Replicate 2 Only	1
A6NKF1	SAC3 domain-containing protein 1	Biological Replicate 2 Only	1
P31153	S-adenosylmethionine synthase isoform type-2	Biological Replicate 2 Only	1
Q8WVM8	Sec1 family domain-containing protein 1	Biological Replicate 2 Only	1
O14641	Segment polarity protein dishevelled homolog DVL-2	Biological Replicate 2 Only	2
Q96HI0	Sentrin-specific protease 5	Biological Replicate 2 Only	1
P35270	Sepiapterin reductase	Biological Replicate 1 Only	1
Q16181	Septin-7	Biological Replicate 2 Only	1
Q9UHD8	Septin-9	Biological 1 and 2	2
P34897	Serine hydroxymethyltransferase, mitochondrial	Biological Replicate 2 Only	2
Q8IYB3	Serine/arginine repetitive matrix protein 1	Biological Replicate 2 Only	1
Q9UQ35	Serine/arginine repetitive matrix protein 2	Biological Replicate 2 Only	1
A6NNA2	Serine/arginine repetitive matrix protein 3	Biological Replicate 1 Only	1
Q07955	Serine/arginine-rich splicing factor 1	Biological 1 and 2	4
Q16629	Serine/arginine-rich splicing factor 7	Biological 1 and 2	2
Q9BRL6	Serine/arginine-rich splicing factor 8	Biological Replicate 1 Only	1
Q13242	Serine/arginine-rich splicing factor 9	Biological Replicate 1 Only	1
Q9P289	Serine/threonine-protein kinase 26	Biological Replicate 2 Only	1
Q9Y5S2	Serine/threonine-protein kinase MRCK beta	Biological Replicate 2 Only	1
Q9BRS2	Serine/threonine-protein kinase RIO1	Biological Replicate 2 Only	1
Q9BVS4	Serine/threonine-protein kinase RIO2	Biological Replicate 1 Only	1
Q9NY27	Serine/threonine-protein phosphatase 4 regulatory subunit 2	Biological 1 and 2	2
P53041	Serine/threonine-protein phosphatase 5	Biological Replicate 2 Only	1
Q5H9R7	Serine/threonine-protein phosphatase 6 regulatory subunit 3	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P49591	Serine--tRNA ligase, cytoplasmic	Biological Replicate 2 Only	1
Q9BXP5	Serrate RNA effector molecule homolog	Biological Replicate 2 Only	3
P10768	S-formylglutathione hydrolase	Biological Replicate 1 Only	1
Q9H299	SH3 domain-binding glutamic acid-rich-like protein 3	Biological Replicate 1 Only	1
Q562F6	Shugoshin 2	Biological Replicate 2 Only	1
Q9NR45	Sialic acid synthase	Biological Replicate 1 Only	1
P37108	Signal recognition particle 14 kDa protein	Biological Replicate 1 Only	1
P60842	Signal recognition particle 54 kDa protein	Biological 1 and 2	4
P49458	Signal recognition particle 9 kDa protein	Biological Replicate 2 Only	2
P42224	Signal transducer and activator of transcription 1-alpha/beta	Biological Replicate 1 Only	1
Q04837	Single-stranded DNA-binding protein, mitochondrial	Biological 1 and 2	2
Q29RF7	Sister chromatid cohesion protein PDS5 homolog A	Biological Replicate 2 Only	1
Q9UHP9	Small muscular protein	Biological Replicate 1 Only	1
P62304	Small nuclear ribonucleoprotein E	Biological Replicate 2 Only	1
P62318	Small nuclear ribonucleoprotein Sm D3	Biological Replicate 1 Only	1
P63162	Small nuclear ribonucleoprotein-associated protein N	Biological Replicate 2 Only	1
P14678	Small nuclear ribonucleoprotein-associated proteins B and B'	Biological Replicate 2 Only	1
Q13573	SNW domain-containing protein 1	Biological Replicate 1 Only	1
Q9Y6M7	Sodium bicarbonate cotransporter 3	Biological Replicate 1 Only	1
P05023	Sodium/potassium-transporting ATPase subunit alpha-1	Biological 1 and 2	3
P05023	Sodium/potassium-transporting ATPase subunit alpha-1	Biological Replicate 2 Only	1
P50991	Sodium/potassium-transporting ATPase subunit alpha-2	Biological 1 and 2	3
P13637	Sodium/potassium-transporting ATPase subunit alpha-3	Biological 1 and 2	3
Q13733	Sodium/potassium-transporting ATPase subunit alpha-4	Biological 1 and 2	3
P54709	Sodium/potassium-transporting ATPase subunit beta-3	Biological Replicate 2 Only	1
Q8N695	Sodium-coupled monocarboxylate transporter 1	Biological Replicate 1 Only	1
Q86YT5	Solute carrier family 13 member 5	Biological Replicate 2 Only	1
Q07890	Son of sevenless homolog 2	Biological Replicate 1 Only	1
O60493	Sorting nexin-3	Biological Replicate 2 Only	1
Q13813	Spectrin alpha chain, non-erythrocytic 1	Biological 1 and 2	5
P11277	Spectrin beta chain, erythrocytic	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q01082	Spectrin beta chain, non-erythrocytic 1	Biological Replicate 2 Only	1
O15020	Spectrin beta chain, non-erythrocytic 2	Biological Replicate 2 Only	1
Q96SI9	Spermatid perinuclear RNA-binding protein	Biological Replicate 2 Only	1
P19623	Spermidine synthase	Biological Replicate 2 Only	1
Q13838	Spliceosome RNA helicase DDX39B	Biological Replicate 2 Only	2
Q15637	Splicing factor 1	Biological Replicate 1 Only	1
Q15459	Splicing factor 3A subunit 1	Biological Replicate 2 Only	1
Q15428	Splicing factor 3A subunit 2	Biological Replicate 2 Only	1
O75533	Splicing factor 3B subunit 1	Biological Replicate 2 Only	2
Q13435	Splicing factor 3B subunit 2	Biological 1 and 2	2
Q15393	Splicing factor 3B subunit 3	Biological Replicate 2 Only	1
Q96I25	Splicing factor 45	Biological 1 and 2	3
P26368	Splicing factor U2AF 65 kDa subunit	Biological 1 and 2	4
Q9BW85	Splicing factor YJU2	Biological Replicate 1 Only	1
P23246	Splicing factor, proline- and glutamine-rich	Biological Replicate 2 Only	1
Q12872	Splicing factor, suppressor of white-apricot homolog	Biological Replicate 1 Only	1
Q8WXA9	Splicing regulatory glutamine/lysine-rich protein 1	Biological Replicate 1 Only	1
Q9C0H9	SRC kinase signaling inhibitor 1	Biological Replicate 1 Only	1
Q96SB4	SRSF protein kinase 1	Biological Replicate 1 Only	1
Q7KZF4	Staphylococcal nuclease domain-containing protein 1	Biological Replicate 2 Only	1
Q15738	Sterol-4-alpha-carboxylate 3-dehydrogenase, decarboxylating	Biological Replicate 2 Only	1
Q9UJZ1	Stomatin-like protein 2, mitochondrial	Biological 1 and 2	2
P35749	Stress-70 protein, mitochondrial	Biological 1 and 2	2
P31948	Stress-induced-phosphoprotein 1	Biological 1 and 2	2
Q9HCN8	Stromal cell-derived factor 2-like protein 1	Biological Replicate 1 Only	1
Q14683	Structural maintenance of chromosomes protein 1A	Biological Replicate 1 Only	2
O95347	Structural maintenance of chromosomes protein 2	Biological 1 and 2	2
Q9UQE7	Structural maintenance of chromosomes protein 3	Biological 1 and 2	3
Q6ZRP7	Sulfhydryl oxidase 2	Biological Replicate 1 Only	1
Q9UBE0	SUMO-activating enzyme subunit 1	Biological Replicate 2 Only	1
Q9UBT2	SUMO-activating enzyme subunit 2	Biological 1 and 2	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P63279	SUMO-conjugating enzyme UBC9	Biological Replicate 1 Only	1
Q9UBS9	SUN domain-containing ossification factor	Biological Replicate 2 Only	1
O14512	Suppressor of cytokine signaling 7	Biological Replicate 1 Only	1
Q92922	SWI/SNF complex subunit SMARCC1	Biological 1 and 2	2
Q8TAQ2	SWI/SNF complex subunit SMARCC2	Biological 1 and 2	2
Q99536	Synaptic vesicle membrane protein VAT-1 homolog	Biological Replicate 2 Only	1
Q9HCH5	Synaptotagmin-like protein 2	Biological 1 and 2	2
P34741	Syndecan-2	Biological Replicate 1 Only	1
Q9Y490	Talin-1	Biological 1 and 2	2
Q4KMQ1	Taperin	Biological Replicate 2 Only	1
P17987	T-complex protein 1 subunit alpha	Biological 1 and 2	5
P63267	T-complex protein 1 subunit beta	Biological 1 and 2	4
P50990	T-complex protein 1 subunit delta	Biological 1 and 2	2
P48643	T-complex protein 1 subunit epsilon	Biological Replicate 2 Only	5
Q99832	T-complex protein 1 subunit eta	Biological 1 and 2	5
P49327	T-complex protein 1 subunit gamma	Biological 1 and 2	5
P49411	T-complex protein 1 subunit theta	Biological 1 and 2	2
P38646	T-complex protein 1 subunit zeta	Biological 1 and 2	5
Q5JUR7	Testis-expressed protein 30	Biological Replicate 2 Only	1
P52888	Thimet oligopeptidase	Biological Replicate 2 Only	1
P10599	Thioredoxin	Biological Replicate 1 Only	1
Q8NBS9	Thioredoxin domain-containing protein 5	Biological Replicate 2 Only	1
Q16762	Thiosulfate sulfurtransferase	Biological Replicate 2 Only	1
Q86V81	THO complex subunit 4	Biological Replicate 2 Only	1
P26639	Threonine--tRNA ligase, cytoplasmic	Biological Replicate 2 Only	1
Q6YHU6	Thyroid adenoma-associated protein	Biological Replicate 1 Only	1
Q5JTV8	Torsin-1A-interacting protein 1	Biological Replicate 2 Only	1
Q8NFAQ8	Torsin-1A-interacting protein 2	Biological Replicate 1 Only	1
O14657	Torsin-1B	Biological Replicate 2 Only	1
Q56UQ5	TPT1-like protein	Biological Replicate 2 Only	1
Q9H4I3	TraB domain-containing protein	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P48553	Trafficking protein particle complex subunit 10	Biological Replicate 1 Only	1
Q8WVT3	Trafficking protein particle complex subunit 12	Biological Replicate 2 Only	1
P0DI82	Trafficking protein particle complex subunit 2B	Biological Replicate 2 Only	1
P37837	Transaldolase	Biological Replicate 2 Only	1
P20290	Transcription factor BTF3	Biological Replicate 2 Only	1
Q9BQW3	Transcription factor COE4	Biological Replicate 1 Only	1
P31629	Transcription factor HIVEP2	Biological Replicate 2 Only	1
O00268	Transcription initiation factor TFIID subunit 4	Biological 1 and 2	2
Q9HBM6	Transcription initiation factor TFIID subunit 9B	Biological Replicate 2 Only	1
Q13263	Transcription intermediary factor 1-beta	Biological 1 and 2	3
P46937	Transcriptional coactivator YAP1	Biological Replicate 1 Only	1
Q86YP4	Transcriptional repressor p66-alpha	Biological Replicate 1 Only	1
Q8WXI9	Transcriptional repressor p66-beta	Biological 1 and 2	2
P62995	Transformer-2 protein homolog beta	Biological Replicate 1 Only	1
P61586	Transforming protein RhoA	Biological Replicate 1 Only	1
P37802	Transgelin-2	Biological Replicate 2 Only	1
Q9HCF6	Transient receptor potential cation channel subfamily M member 3	Biological Replicate 2 Only	1
P55060	Transitional endoplasmic reticulum ATPase	Biological 1 and 2	2
P29401	Transketolase	Biological Replicate 1 Only	1
Q9BSH4	Translational activator of cytochrome c oxidase 1	Biological Replicate 2 Only	1
P13693	Translationally-controlled tumor protein	Biological Replicate 2 Only	1
P49755	Transmembrane emp24 domain-containing protein 10	Biological Replicate 2 Only	1
Q5JRA6	Transport and Golgi organization protein 1 homolog	Biological Replicate 1 Only	1
Q13428	Treacle protein	Biological Replicate 1 Only	1
P40939	Trifunctional enzyme subunit alpha, mitochondrial	Biological Replicate 2 Only	1
P55084	Trifunctional enzyme subunit beta, mitochondrial	Biological Replicate 2 Only	3
P60174	Triosephosphate isomerase	Biological Replicate 2 Only	1
Q08J23	tRNA	Biological 1 and 2	3
Q7L0Y3	tRNA methyltransferase 10 homolog C	Biological Replicate 2 Only	1
Q9Y3I0	tRNA-splicing ligase RtcB homolog	Biological 1 and 2	8
A6NFK2	TRPM8 channel-associated factor 2	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q71U36	Tubulin alpha-1A chain	Biological 1 and 2	3
Q71U36	Tubulin alpha-1A chain	Biological Replicate 2 Only	1
P68363	Tubulin alpha-1B chain	Biological Replicate 2 Only	2
P68363	Tubulin alpha-1B chain	Biological Replicate 1 Only	1
Q9BQE3	Tubulin alpha-1C chain	Biological 1 and 2	4
Q9BQE3	Tubulin alpha-1C chain	Biological Replicate 1 Only	1
P0DPH8	Tubulin alpha-3D chain	Biological 1 and 2	3
Q6PEY2	Tubulin alpha-3E chain	Biological 1 and 2	2
P68366	Tubulin alpha-4A chain	Biological 1 and 2	2
Q9NY65	Tubulin alpha-8 chain	Biological 1 and 2	3
A6NNZ2	Tubulin beta 8B	Biological 1 and 2	4
P07437	Tubulin beta chain	Biological 1 and 2	12
P07437	Tubulin beta chain	Biological Replicate 2 Only	1
Q9H4B7	Tubulin beta-1 chain	Biological Replicate 2 Only	2
Q9H4B7	Tubulin beta-1 chain	Biological Replicate 1 Only	1
Q13885	Tubulin beta-2A chain	Biological 1 and 2	14
Q9BVA1	Tubulin beta-2B chain	Biological 1 and 2	14
Q13509	Tubulin beta-3 chain	Biological 1 and 2	6
Q13509	Tubulin beta-3 chain	Biological Replicate 2 Only	2
P04350	Tubulin beta-4A chain	Biological 1 and 2	2
P04350	Tubulin beta-4A chain	Biological 1 and 2	10
P68371	Tubulin beta-4B chain	Biological 1 and 2	13
Q9BUF5	Tubulin beta-6 chain	Biological 1 and 2	5
Q3ZCM7	Tubulin beta-8 chain	Biological 1 and 2	5
P23258	Tubulin gamma-1 chain	Biological Replicate 2 Only	3
Q9NRH3	Tubulin gamma-2 chain	Biological Replicate 2 Only	2
O75347	Tubulin-specific chaperone A	Biological Replicate 1 Only	1
Q9UBB9	Tuftelin-interacting protein 11	Biological Replicate 1 Only	1
Q16890	Tumor protein D53	Biological Replicate 1 Only	1
P07101	Tyrosine 3-monooxygenase	Biological Replicate 1 Only	1
P17735	Tyrosine aminotransferase	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P35590	Tyrosine-protein kinase receptor Tie-1	Biological Replicate 1 Only	1
P50993	Tyrosine--tRNA ligase, cytoplasmic	Biological 1 and 2	3
P08621	U1 small nuclear ribonucleoprotein 70 kDa	Biological Replicate 2 Only	1
P09661	U2 small nuclear ribonucleoprotein A'	Biological Replicate 2 Only	1
O15042	U2 snRNP-associated SURP motif-containing protein	Biological 1 and 2	4
Q8WWY3	U4/U6 small nuclear ribonucleoprotein Prp31	Biological Replicate 1 Only	1
O43290	U4/U6.U5 tri-snRNP-associated protein 1	Biological Replicate 2 Only	1
Q9NRR5	Ubiquilin-4	Biological Replicate 1 Only	1
P54578	Ubiquitin carboxyl-terminal hydrolase 14	Biological Replicate 1 Only	1
P43243	Ubiquitin carboxyl-terminal hydrolase 5	Biological Replicate 2 Only	1
Q93009	Ubiquitin carboxyl-terminal hydrolase 7	Biological Replicate 1 Only	1
P09936	Ubiquitin carboxyl-terminal hydrolase isozyme L1	Biological Replicate 1 Only	1
O14562	Ubiquitin domain-containing protein UBFD1	Biological Replicate 1 Only	1
Q14157	Ubiquitin-associated protein 2-like	Biological 1 and 2	2
Q13404	Ubiquitin-conjugating enzyme E2 variant 1	Biological Replicate 2 Only	1
Q15819	Ubiquitin-conjugating enzyme E2 variant 2	Biological Replicate 2 Only	1
Q15819	Ubiquitin-conjugating enzyme E2 variant 2	Biological Replicate 1 Only	1
Q9H832	Ubiquitin-conjugating enzyme E2 Z	Biological Replicate 2 Only	1
P22314	Ubiquitin-like modifier-activating enzyme 1	Biological Replicate 2 Only	1
A0AVT1	Ubiquitin-like modifier-activating enzyme 6	Biological Replicate 2 Only	1
Q04323	UBX domain-containing protein 1	Biological Replicate 1 Only	1
Q9NYU2	UDP-glucose:glycoprotein glucosyltransferase 1	Biological Replicate 2 Only	1
P30085	UMP-CMP kinase	Biological Replicate 2 Only	1
A1L170	Uncharacterized protein C1orf226	Biological Replicate 1 Only	1
Q8WYQ4	Uncharacterized protein C22orf15	Biological Replicate 1 Only	1
Q9ULG3	Uncharacterized protein KIAA1257	Biological Replicate 2 Only	1
Q9ULV0	Unconventional myosin-Vb	Biological 1 and 2	2
Q5T230	Undifferentiated embryonic cell transcription factor 1	Biological Replicate 2 Only	1
Q9HB07	UPF0160 protein MYG1, mitochondrial	Biological Replicate 2 Only	1
Q709C8	Vacuolar protein sorting-associated protein 13C	Biological Replicate 2 Only	1
Q9NP79	Vacuolar protein sorting-associated protein VTA1 homolog	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P50552	Vasodilator-stimulated phosphoprotein	Biological Replicate 2 Only	1
Q53GQ0	Very-long-chain 3-oxoacyl-CoA reductase	Biological Replicate 2 Only	1
Q9UEU0	Vesicle transport through interaction with t-SNAREs homolog 1B	Biological Replicate 2 Only	1
Q15836	Vesicle-associated membrane protein 3	Biological Replicate 2 Only	1
Q12907	Vesicular integral-membrane protein VIP36	Biological Replicate 1 Only	1
Q00341	Vigilin	Biological Replicate 2 Only	1
P08670	Vimentin	Biological 1 and 2	10
P18206	Vinculin	Biological 1 and 2	2
P21796	Voltage-dependent anion-selective channel protein 1	Biological Replicate 2 Only	1
P38606	V-type proton ATPase catalytic subunit A	Biological Replicate 2 Only	2
P21281	V-type proton ATPase subunit B, brain isoform	Biological Replicate 2 Only	1
P15313	V-type proton ATPase subunit B, kidney isoform	Biological Replicate 2 Only	1
Q15904	V-type proton ATPase subunit S1	Biological Replicate 1 Only	1
Q5VU97	VWFA and cache domain-containing protein 1	Biological Replicate 2 Only	1
A6NGB9	WAS/WASL-interacting protein family member 3	Biological Replicate 2 Only	1
Q6UXN9	WD repeat-containing protein 82	Biological Replicate 2 Only	1
Q2TAY7	WD40 repeat-containing protein SMU1	Biological Replicate 2 Only	2
Q8TF30	WH2 domain-containing protein 1	Biological Replicate 2 Only	1
P13010	X-ray repair cross-complementing protein 5	Biological Replicate 2 Only	4
P12956	X-ray repair cross-complementing protein 6	Biological Replicate 1 Only	2
P16989	Y-box-binding protein 3	Biological Replicate 2 Only	1
P49750	YLP motif-containing protein 1	Biological Replicate 2 Only	1
Q6NZY4	Zinc finger CCHC domain-containing protein 8	Biological Replicate 2 Only	1
Q9UQR1	Zinc finger protein 148	Biological Replicate 2 Only	1
P98182	Zinc finger protein 200	Biological Replicate 2 Only	1
Q6N043	Zinc finger protein 280D	Biological Replicate 1 Only	1
Q969S3	Zinc finger protein 622	Biological Replicate 2 Only	1
Q96KR1	Zinc finger RNA-binding protein	Biological Replicate 2 Only	1
O14874		Biological Replicate 2 Only	1

Table S6. IV-FPOP oxidatively modified proteins in 200 mM H₂O₂ PIXY
IV-FPOP oxidatively modified proteins in 200 mM H₂O₂ Flow²⁴

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P41932	14-3-3-like protein 1	Biological 1 and 2	2
Q20655	14-3-3-like protein 2	Biological 1 and 2	2
G5EBH0	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta egl-8	Biological Replicate 2 Only	1
G5EFZ1	2,3-bisphosphoglycerate-independent phosphoglycerate mutase	Biological 1 and 2	3
O76371	26S protease regulatory subunit 6A	Biological 1 and 2	4
Q18115	26S proteasome non-ATPase regulatory subunit 1	Biological 1 and 2	2
O76577	26S proteasome non-ATPase regulatory subunit 14	Biological Replicate 2 Only	1
Q04908	26S proteasome non-ATPase regulatory subunit 3	Biological 1 and 2	2
Q23449	26S proteasome non-ATPase regulatory subunit 8	Biological Replicate 2 Only	2
Q09261	28S ribosomal protein S31, mitochondrial	Biological Replicate 1 Only	1
Q8T8B9	2-amino-3-carboxymuconate-6-semialdehyde decarboxylase	Biological Replicate 2 Only	1
P36573	32 kDa beta-galactoside-binding lectin	Biological Replicate 2 Only	1
Q19341	3-hydroxyanthranilate 3,4-dioxygenase	Biological Replicate 2 Only	1
P51404	40S ribosomal protein S13	Biological 1 and 2	6
P48150	40S ribosomal protein S14	Biological Replicate 2 Only	1
Q9XVP0	40S ribosomal protein S15	Biological 1 and 2	2
O01692	40S ribosomal protein S17	Biological 1 and 2	2
O18650	40S ribosomal protein S19	Biological Replicate 2 Only	1
P51403	40S ribosomal protein S2	Biological 1 and 2	4
P49197	40S ribosomal protein S21	Biological 1 and 2	4
P52821	40S ribosomal protein S25	Biological 1 and 2	6
Q9TXP0	40S ribosomal protein S27	Biological 1 and 2	2
P48152	40S ribosomal protein S3	Biological 1 and 2	8
P48154	40S ribosomal protein S3a	Biological Replicate 2 Only	3
Q9N3X2	40S ribosomal protein S4	Biological 1 and 2	4
P49041	40S ribosomal protein S5	Biological Replicate 1 Only	1
Q9NEN6	40S ribosomal protein S6	Biological 1 and 2	4

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P48156	40S ribosomal protein S8	Biological 1 and 2	4
Q20228	40S ribosomal protein S9	Biological 1 and 2	5
P46769	40S ribosomal protein SA	Biological 1 and 2	5
Q22633	4-hydroxyphenylpyruvate dioxygenase	Biological Replicate 2 Only	1
P45894	5'-AMP-activated protein kinase catalytic subunit alpha-1	Biological Replicate 2 Only	2
Q95ZQ4	5'-AMP-activated protein kinase catalytic subunit alpha-2	Biological Replicate 2 Only	1
Q27274	60 kDa SS-A/Ro ribonucleoprotein homolog	Biological 1 and 2	2
Q93572	60S acidic ribosomal protein P0	Biological Replicate 2 Only	1
P91913	60S acidic ribosomal protein P1	Biological 1 and 2	2
Q09533	60S ribosomal protein L10	Biological 1 and 2	2
P91128	60S ribosomal protein L13	Biological Replicate 2 Only	1
Q27389	60S ribosomal protein L13a	Biological Replicate 2 Only	1
P91374	60S ribosomal protein L15	Biological 1 and 2	2
Q9BL19	60S ribosomal protein L17	Biological Replicate 2 Only	1
O44480	60S ribosomal protein L18a	Biological 1 and 2	4
O02639	60S ribosomal protein L19	Biological 1 and 2	2
P34334	60S ribosomal protein L21	Biological Replicate 2 Only	1
P52819	60S ribosomal protein L22	Biological Replicate 2 Only	1
P48162	60S ribosomal protein L23a 1	Biological 1 and 2	3
Q19869	60S ribosomal protein L26	Biological Replicate 1 Only	2
P50880	60S ribosomal protein L3	Biological Replicate 2 Only	3
O17570	60S ribosomal protein L38	Biological Replicate 2 Only	1
P52814	60S ribosomal protein L39	Biological 1 and 2	2
O02056	60S ribosomal protein L4	Biological 1 and 2	8
P49405	60S ribosomal protein L5	Biological Replicate 2 Only	1
O01802	60S ribosomal protein L7	Biological Replicate 2 Only	3
Q9XVF7	60S ribosomal protein L8	Biological 1 and 2	3
Q17761	6-phosphogluconate dehydrogenase, decarboxylating	Biological Replicate 2 Only	1
G5ECS8	A disintegrin and metalloproteinase with thrombospondin motifs adt-1	Biological Replicate 2 Only	1
P34400	Abnormal cell migration protein 10	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
O45348	Abnormal cell migration protein 18	Biological Replicate 2 Only	1
A6ZJ71	Abnormal cell migration protein 38	Biological 1 and 2	4
Q21166	Acetoacetyl-CoA synthetase	Biological Replicate 2 Only	1
O62220	Acidic leucine-rich nuclear phosphoprotein 32-related protein 1	Biological Replicate 2 Only	1
O01615	Acidic leucine-rich nuclear phosphoprotein 32-related protein 2	Biological Replicate 2 Only	2
G5EBZ8	Ack-related non-receptor tyrosine kinase	Biological Replicate 2 Only	1
Q18008	ACT1-like protein	Biological 1 and 2	2
P0DM41	Actin-1	Biological 1 and 2	7
Q07750	Actin-depolymerizing factor 1, isoforms a/b	Biological Replicate 2 Only	2
O01805	Acyl-CoA-binding protein homolog 1	Biological Replicate 2 Only	1
Q7YSI9	Adapter protein unc-53	Biological 1 and 2	2
P27604	Adenosylhomocysteinase	Biological 1 and 2	4
P34346	Adenylate kinase	Biological 1 and 2	4
Q20140	Adenylate kinase isoenzyme 1	Biological Replicate 2 Only	1
P91134	Adenylosuccinate synthetase	Biological 1 and 2	3
Q10943	ADP-ribosylation factor 1-like 2	Biological Replicate 2 Only	2
O01541	Alanine--tRNA ligase, cytoplasmic	Biological Replicate 2 Only	2
Q23122	Alanine--tRNA ligase, mitochondrial	Biological Replicate 2 Only	1
Q17334	Alcohol dehydrogenase 1	Biological Replicate 2 Only	1
O45218	Alkyldihydroxyacetonephosphate synthase	Biological 1 and 2	3
O17554	Alkylglycerol monooxygenase	Biological 1 and 2	2
Q23192	Alpha-tubulin N-acetyltransferase 2	Biological Replicate 1 Only	1
G5EFT4	Aminopeptidase Itah-1.1	Biological 1 and 2	2
Q17405	Aminopeptidase-like protein AC3.5	Biological Replicate 2 Only	1
O18191	Anaphase-promoting complex subunit 1	Biological Replicate 2 Only	1
H2L2B8	Anaphase-promoting complex subunit 10	Biological Replicate 2 Only	1
A0A1C3NSL9	Apical junction molecule	Biological Replicate 2 Only	1
P34552	Apoptosis-linked gene 2-interacting protein X 1	Biological Replicate 2 Only	2
Q19202	Apyrase apy-1	Biological Replicate 2 Only	1
Q21770	Argonaute protein wago-1	Biological Replicate 2 Only	1
O44712	Aryl hydrocarbon receptor protein 1	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q22067	Aspartate aminotransferase, cytoplasmic	Biological 1 and 2	3
Q03577	Aspartate--tRNA ligase, cytoplasmic	Biological 1 and 2	4
G5EEI4	Aspartic protease 1	Biological Replicate 2 Only	1
P55956	Aspartic protease 3	Biological Replicate 2 Only	1
Q21966	Aspartic protease 4	Biological Replicate 1 Only	1
O01530	Aspartic protease 6	Biological 1 and 2	2
Q19087	Aspartyl aminopeptidase	Biological Replicate 2 Only	1
Q9XXK1	ATP synthase subunit alpha, mitochondrial	Biological 1 and 2	5
P46561	ATP synthase subunit beta, mitochondrial	Biological 1 and 2	9
Q20748	ATPase family AAA domain-containing protein 3	Biological 1 and 2	3
Q9TZL8	ATP-dependent 6-phosphofructokinase 1	Biological Replicate 2 Only	2
Q21489	ATP-dependent DNA helicase chl-1	Biological Replicate 2 Only	1
Q95YF3	ATP-dependent RNA helicase cgh-1	Biological 1 and 2	3
P34689	ATP-dependent RNA helicase glh-1	Biological Replicate 2 Only	2
O01836	ATP-dependent RNA helicase glh-3	Biological Replicate 2 Only	1
D0PV95	ATP-dependent RNA helicase laf-1	Biological 1 and 2	3
P34379	Autophagy-related protein 13 homolog	Biological Replicate 2 Only	1
O44739	BAG family molecular chaperone regulator 1	Biological Replicate 2 Only	1
Q19640	Bardet-Biedl syndrome 2 protein homolog	Biological Replicate 2 Only	1
Q06561	Basement membrane proteoglycan	Biological Replicate 2 Only	1
O45435	Bestrophin homolog 13	Biological 1 and 2	3
Q22566	Bestrophin homolog 17	Biological Replicate 2 Only	1
Q23369	Bestrophin homolog 22	Biological Replicate 2 Only	1
Q94175	Bestrophin homolog 9	Biological Replicate 2 Only	1
Q10663	Bifunctional glyoxylate cycle protein	Biological Replicate 1 Only	3
Q966W3	Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 1	Biological Replicate 2 Only	1
O45679	Bifunctional L-3-cyanoalanine synthase/cysteine synthase	Biological Replicate 2 Only	1
P54688	Branched-chain-amino-acid aminotransferase, cytosolic	Biological Replicate 2 Only	1
Q9XUM6	BTB and MATH domain-containing protein 34	Biological 1 and 2	2
O76612	BTB and MATH domain-containing protein 47	Biological Replicate 2 Only	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q18990	CAD protein	Biological 1 and 2	10
P34616	Cadherin-3	Biological 1 and 2	2
Q19319	Cadherin-4	Biological Replicate 2 Only	2
Q967F4	Cadherin-related hmr-1	Biological Replicate 1 Only	1
Q23658	Calcium-dependent secretion activator	Biological Replicate 1 Only	1
O16305	Calmodulin	Biological Replicate 2 Only	1
P27798	Calreticulin	Biological Replicate 2 Only	1
P30625	cAMP-dependent protein kinase regulatory subunit	Biological Replicate 2 Only	2
P42168	Casein kinase I isoform alpha	Biological 1 and 2	4
P18334	Casein kinase II subunit alpha	Biological 1 and 2	2
P43508	Cathepsin B-like cysteine proteinase 4	Biological Replicate 1 Only	1
Q18879	Caveolin-2	Biological Replicate 1 Only	1
Q09316	CDK5RAP1-like protein	Biological Replicate 2 Only	1
Q05062	Cell division control protein 42 homolog	Biological Replicate 2 Only	1
G5EG38	Cell division cycle protein 16 homolog	Biological Replicate 2 Only	1
O76360	cGMP-dependent protein kinase egl-4	Biological Replicate 2 Only	1
P50140	Chaperonin homolog Hsp-60, mitochondrial	Biological 1 and 2	13
P32756	Choline O-acetyltransferase	Biological 1 and 2	2
P45895	Chondroitin sulfate synthase mig-22	Biological Replicate 2 Only	1
Q22516	Chromodomain-helicase-DNA-binding protein 3 homolog	Biological 1 and 2	3
P48996	Chromosome condensation protein dpy-27	Biological Replicate 2 Only	1
P34466	Clustered mitochondria protein homolog	Biological 1 and 2	2
Q09322	Coelomocyte uptake defective protein 15	Biological Replicate 2 Only	1
P17139	Collagen alpha-1(IV) chain	Biological 1 and 2	11
P17140	Collagen alpha-2(IV) chain	Biological 1 and 2	5
G5EGE9	Condensin complex subunit dpy-26	Biological Replicate 2 Only	1
P34341	Condensin-2 complex subunit kle-2	Biological Replicate 2 Only	1
O01422	COP9 signalosome complex subunit 2	Biological Replicate 1 Only	1
Q95PZ0	COP9 signalosome complex subunit 6	Biological 1 and 2	2
Q94261	COP9/Signalosome and eIF3 complex-shared subunit 1	Biological Replicate 2 Only	2
Q09221	Copine family protein 2	Biological 1 and 2	5

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q17423	Crescerin-like protein che-12	Biological 1 and 2	2
P34393	C-type lectin domain-containing protein 160	Biological Replicate 2 Only	1
G5ED41	Cullin-associated NEDD8-dissociated protein 1	Biological Replicate 2 Only	2
P34687	Cuticle collagen 34	Biological 1 and 2	2
Q09455	Cuticle collagen 39	Biological Replicate 2 Only	1
Q09457	Cuticle collagen bli-1	Biological Replicate 1 Only	1
P91285	Cuticle collagen dpy-5	Biological 1 and 2	3
Q23628	Cuticle collagen lon-3	Biological Replicate 1 Only	1
P20784	Cuticle collagen rol-6	Biological Replicate 1 Only	2
P46551	Cyclin-dependent kinase 12	Biological Replicate 2 Only	1
P98080	Cytochrome b-c1 complex subunit 1, mitochondrial	Biological 1 and 2	4
P24893	Cytochrome c oxidase subunit 1	Biological Replicate 2 Only	1
Q19542	Cytoplasmic dynein 2 heavy chain 1	Biological Replicate 2 Only	3
Q21106	DDB1- and CUL4-associated factor homolog 1	Biological Replicate 1 Only	1
Q22851	Degenerin-like protein asic-2	Biological Replicate 2 Only	1
G5EGA5	Delta(12) fatty acid desaturase fat-2	Biological Replicate 2 Only	1
G5EGN2	Delta(9)-fatty-acid desaturase fat-6	Biological 1 and 2	2
P41950	Dendrite extension defective protein 1	Biological Replicate 2 Only	1
O17953	Dihydrolipoyl dehydrogenase, mitochondrial	Biological Replicate 2 Only	1
Q19749	Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial	Biological 1 and 2	3
Q18164	Dihydropyrimidine dehydrogenase [NADP(+)]	Biological 1 and 2	3
Q18253	Dipeptidyl peptidase family member 2	Biological 1 and 2	2
Q09568	DIS3-like exonuclease 2	Biological Replicate 2 Only	1
G5EFD5	Disintegrin and metalloproteinase domain-containing protein unc-71	Biological 1 and 2	2
G5ECY0	Disks large homolog 1	Biological Replicate 2 Only	1
Q18066	Disorganized muscle protein 1	Biological 1 and 2	4
Q21554	DNA damage-binding protein 1	Biological Replicate 1 Only	1
A0FLQ6	DNA polymerase theta	Biological Replicate 1 Only	1
G5EG86	DNA repair protein brc-2	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q21902	DNA replication licensing factor mcm-5	Biological Replicate 2 Only	1
O17966	DNA topoisomerase 1	Biological 1 and 2	3
Q23670	DNA topoisomerase 2 top-2	Biological 1 and 2	4
O61660	DNA topoisomerase 3	Biological Replicate 1 Only	1
P16356	DNA-directed RNA polymerase II subunit RPB1	Biological Replicate 2 Only	1
Q10578	DNA-directed RNA polymerase II subunit RPB2	Biological Replicate 1 Only	1
Q9N5K2	DNA-directed RNA polymerases I, II, and III subunit RPABC1	Biological Replicate 2 Only	1
Q9GR61	DNA-directed RNA polymerases I, II, and III subunit RPABC5	Biological 1 and 2	2
Q8TA83	DnaJ homolog dnj-10	Biological Replicate 1 Only	1
Q17438	DnaJ homolog subfamily B member 1	Biological Replicate 2 Only	1
P45971	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 48 kDa subunit	Biological Replicate 1 Only	1
Q9GZH4	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1	Biological Replicate 2 Only	1
Q21307	Dual specificity mitogen-activated protein kinase kinase mek-1	Biological Replicate 2 Only	1
Q10664	Dual specificity mitogen-activated protein kinase kinase mek-2	Biological Replicate 2 Only	1
Q19020	Dynein heavy chain, cytoplasmic	Biological 1 and 2	10
Q9TW65	Dystrophin-1	Biological Replicate 2 Only	1
Q94361	E3 SUMO-protein ligase gei-17	Biological Replicate 1 Only	1
Q09654	E3 ubiquitin-protein ligase arc-1	Biological Replicate 1 Only	1
V6CLA2	E3 ubiquitin-protein ligase hecd-1	Biological Replicate 2 Only	1
Q65XX2	E3 ubiquitin-protein ligase listerin	Biological Replicate 2 Only	1
Q17750	E3 UFM1-protein ligase 1 homolog	Biological Replicate 2 Only	2
P90755	Ectonucleotide pyrophosphatase/phosphodiesterase C27A7.3	Biological 1 and 2	3
Q18892	Ectopic P granules protein 5	Biological Replicate 2 Only	1
Q11190	Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial	Biological 1 and 2	2
P53013	Elongation factor 1-alpha	Biological 1 and 2	2
P29691	Elongation factor 2	Biological 1 and 2	11
Q9XV52	Elongation factor G, mitochondrial	Biological Replicate 2 Only	1
Q20819	Elongation factor Ts, mitochondrial	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
O01971	Emerin homolog 1	Biological Replicate 2 Only	1
P20163	Endoplasmic reticulum chaperone BiP homolog	Biological 1 and 2	4
Q22235	Endoplasmin homolog	Biological 1 and 2	8
P91863	Endoprotease aex-5	Biological Replicate 2 Only	1
Q27527	Enolase	Biological 1 and 2	5
Q18169	Esterase C25G4.2	Biological Replicate 2 Only	1
P27639	Eukaryotic initiation factor 4A	Biological 1 and 2	3
O16520	Eukaryotic peptide chain release factor subunit 1	Biological 1 and 2	3
D0Z5N4	Eukaryotic translation initiation factor 2-alpha kinase gcn-2	Biological 1 and 2	2
Q19192	Eukaryotic translation initiation factor 2-alpha kinase pek-1	Biological Replicate 2 Only	1
P34339	Eukaryotic translation initiation factor 3 subunit A	Biological 1 and 2	10
Q9XWI6	Eukaryotic translation initiation factor 3 subunit B	Biological 1 and 2	3
P30642	Eukaryotic translation initiation factor 3 subunit D	Biological 1 and 2	3
O61820	Eukaryotic translation initiation factor 3 subunit E	Biological Replicate 2 Only	1
Q18967	Eukaryotic translation initiation factor 3 subunit F	Biological Replicate 2 Only	2
Q19706	Eukaryotic translation initiation factor 3 subunit G	Biological Replicate 2 Only	1
O01974	Eukaryotic translation initiation factor 3 subunit H	Biological Replicate 1 Only	1
Q9XUP3	Eukaryotic translation initiation factor 3 subunit K	Biological Replicate 2 Only	2
Q95QW0	Eukaryotic translation initiation factor 3 subunit L	Biological Replicate 2 Only	1
Q9XW13	Eukaryotic translation initiation factor 4E-binding protein Mextli homolog	Biological Replicate 2 Only	1
P34563	Eukaryotic translation initiation factor 5A-1	Biological Replicate 1 Only	1
Q20751	Eukaryotic translation initiation factor 5A-2	Biological Replicate 2 Only	1
Q10901	Excitatory amino acid transporter	Biological Replicate 1 Only	1
Q18406	Exocyst complex component 5	Biological Replicate 2 Only	1
O01705	Exostosin-2 homolog	Biological Replicate 2 Only	1
Q9XTW2	Extracellular serine/threonine protein kinase CeFam20	Biological Replicate 1 Only	1
Q9N5R9	FACT complex subunit spt-16	Biological 1 and 2	3
P34686	F-actin-capping protein subunit beta	Biological Replicate 2 Only	1
P90740	Fanconi-associated nuclease 1 homolog	Biological Replicate 2 Only	1
Q20224	Fatty acid-binding protein homolog 2	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q20222	Fatty acid-binding protein homolog 3	Biological Replicate 2 Only	1
O01812	Fatty acid-binding protein homolog 6	Biological 1 and 2	4
P34382	Fatty-acid and retinol-binding protein 1	Biological Replicate 1 Only	1
O16299	Fidgetin-like protein 1	Biological Replicate 2 Only	1
Q9TY03	Frataxin, mitochondrial	Biological 1 and 2	2
P54216	Fructose-bisphosphate aldolase 1	Biological 1 and 2	4
P34638	G2/mitotic-specific cyclin-A1	Biological Replicate 2 Only	1
P91200	Galactoside 2-alpha-L-fucosyltransferase	Biological 1 and 2	2
F3Y5P4	Girdin homolog	Biological Replicate 2 Only	1
O44408	GLH-binding kinase 1	Biological Replicate 1 Only	1
P30627	Globin-like protein	Biological Replicate 2 Only	1
P34428	Glutamine/asparagine-rich protein mdt-30	Biological Replicate 2 Only	2
O02621	Glutathione peroxidase 1	Biological 1 and 2	2
Q9N4X8	Glutathione S-transferase P 10	Biological Replicate 2 Only	1
P17329	Glyceraldehyde-3-phosphate dehydrogenase 2	Biological 1 and 2	3
Q10039	Glycine--tRNA ligase	Biological 1 and 2	2
Q9U2Q9	Glycogen synthase kinase-3	Biological Replicate 2 Only	1
O16294	GMP reductase	Biological Replicate 1 Only	1
P90970	Golgin-84	Biological 1 and 2	2
P34562	GRIP and coiled-coil domain-containing protein 2	Biological Replicate 2 Only	1
O17915	GTP-binding nuclear protein ran-1	Biological Replicate 2 Only	1
Q19572	Guanine nucleotide-binding protein alpha-12 subunit	Biological 1 and 2	2
Q9XTB2	Guanine nucleotide-binding protein alpha-13 subunit	Biological Replicate 2 Only	1
P22454	Guanine nucleotide-binding protein alpha-2 subunit	Biological Replicate 2 Only	1
Q20701	Guanine nucleotide-binding protein alpha-5 subunit	Biological Replicate 2 Only	1
Q20910	Guanine nucleotide-binding protein alpha-9 subunit	Biological Replicate 2 Only	1
P51875	Guanine nucleotide-binding protein G(o) subunit alpha	Biological 1 and 2	2
P17343	Guanine nucleotide-binding protein subunit beta-1	Biological Replicate 2 Only	1
Q21215	Guanine nucleotide-binding protein subunit beta-2-like 1	Biological Replicate 2 Only	6
Q21086	Guanine nucleotide-binding protein-like 3 homolog	Biological 1 and 2	2
G5EBV6	Guanyl-specific ribonuclease pgl-3	Biological Replicate 2 Only	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q09237	GYF domain-containing protein C18H9.3	Biological Replicate 1 Only	1
Q23495	HEAT repeat-containing protein 1 homolog	Biological 1 and 2	3
P09446	Heat shock 70 kDa protein A	Biological 1 and 2	12
P27420	Heat shock 70 kDa protein C	Biological 1 and 2	6
P11141	Heat shock 70 kDa protein F, mitochondrial	Biological 1 and 2	11
Q05036	Heat shock protein 110	Biological 1 and 2	7
Q18688	Heat shock protein 90	Biological 1 and 2	13
Q22037	Heterogeneous nuclear ribonucleoprotein A1	Biological 1 and 2	3
Q20502	Histidine ammonia-lyase	Biological Replicate 2 Only	1
P53795	Histidine triad nucleotide-binding protein 1	Biological Replicate 2 Only	1
P34183	Histidine--tRNA ligase	Biological Replicate 1 Only	1
P15796	Histone H1.2	Biological Replicate 2 Only	1
P62784	Histone H4	Biological 1 and 2	5
Q93352	Homeobox protein ceh-36	Biological Replicate 2 Only	1
Q9BL02	Homeobox protein cut-like ceh-44	Biological Replicate 2 Only	1
Q09604	Homeobox protein vab-15	Biological Replicate 2 Only	2
Q9Y041	Homogentisate 1,2-dioxygenase	Biological Replicate 2 Only	1
Q02328	Huntington interacting protein related 1	Biological Replicate 2 Only	3
O18023	Ig-like and fibronectin type-III domain-containing protein 2	Biological Replicate 2 Only	1
Q18581	Inactive angiotensin-converting enzyme-related protein	Biological Replicate 1 Only	1
O01767	Inactive protein-tyrosine phosphatase egg-4	Biological Replicate 2 Only	1
Q27295	Innexin eat-5	Biological Replicate 2 Only	1
Q19746	Innexin-3	Biological Replicate 2 Only	1
Q23027	Innexin-5	Biological Replicate 1 Only	1
Q18680	Inorganic pyrophosphatase 1	Biological Replicate 2 Only	1
Q9GZH3	Inosine-5'-monophosphate dehydrogenase	Biological 1 and 2	2
P34370	Inositol polyphosphate 5-phosphatase	Biological Replicate 1 Only	1
P34446	Integrin alpha pat-2	Biological Replicate 1 Only	1
Q27874	Integrin beta pat-3	Biological Replicate 1 Only	1
Q10128	Interleukin cytokine receptor-related protein 2	Biological Replicate 1 Only	1
P90901	Intermediate filament protein ifa-1	Biological 1 and 2	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
O02365	Intermediate filament protein ifa-2	Biological 1 and 2	4
Q19289	Intermediate filament protein ifb-1	Biological Replicate 1 Only	1
Q19286	Intermediate filament protein ifb-2	Biological 1 and 2	5
O45168	Intermediate filament protein ifc-1	Biological Replicate 2 Only	1
Q21067	Intermediate filament protein ifc-2	Biological Replicate 2 Only	1
Q86DC6	Intermediate filament protein ifd-1	Biological Replicate 1 Only	1
Q09501	Intermediate filament protein ifp-1	Biological Replicate 2 Only	1
G5EFW7	Intraflagellar transport protein 122 homolog	Biological Replicate 2 Only	1
Q0G838	Intraflagellar transport protein 46 homolog	Biological Replicate 2 Only	1
Q22830	Intraflagellar transport protein osm-1	Biological Replicate 2 Only	1
Q21926	Isoleucine--tRNA ligase, cytoplasmic	Biological 1 and 2	4
P34540	Kinesin heavy chain	Biological Replicate 2 Only	2
P46822	Kinesin light chain	Biological Replicate 2 Only	1
P45962	Kinesin-like protein klp-3	Biological Replicate 2 Only	1
P34278	Kinetochore null protein 1	Biological Replicate 2 Only	1
Q21952	Kinetochore protein Nuf2 homolog	Biological Replicate 2 Only	1
Q18026	Kynureninase	Biological Replicate 2 Only	2
Q21443	Lamin-1	Biological 1 and 2	3
Q18823	Laminin-like protein lam-2	Biological 1 and 2	4
D5MCN2	La-related protein 1	Biological Replicate 2 Only	1
P34629	Leucine aminopeptidase 1	Biological 1 and 2	3
Q9TZM3	Leucine-rich repeat serine/threonine-protein kinase 1	Biological Replicate 2 Only	1
Q09996	Leucine--tRNA ligase	Biological Replicate 2 Only	2
P34416	LIM and SH3 domain protein F42H10.3	Biological Replicate 2 Only	1
G5EE86	LIM/homeobox protein ttx-3	Biological Replicate 2 Only	1
Q23571	Lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial	Biological Replicate 2 Only	1
Q21049	Liprin-alpha	Biological Replicate 2 Only	1
O44952	Lon protease homolog, mitochondrial	Biological Replicate 2 Only	1
Q95QK3	Lysine-specific demethylase jmjd-3.1	Biological Replicate 1 Only	1
Q22099	Lysine--tRNA ligase	Biological Replicate 2 Only	3

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P91193	Macoilin	Biological Replicate 1 Only	1
P53018	Major sperm protein 32	Biological 1 and 2	2
A3QMC8	Mannose-1-phosphate guanyltransferase beta	Biological Replicate 2 Only	1
G5EGM1	Matrix metalloproteinase-A	Biological Replicate 1 Only	1
P34808	Meiotic spindle formation protein mei-1	Biological Replicate 2 Only	1
O18209	Membrane-associated tyrosine- and threonine-specific cdc2-inhibitory kinase wee-1.3	Biological Replicate 2 Only	1
Q09165	Mesocentin	Biological Replicate 1 Only	1
Q9GYL2	Metal transporter cnm-2	Biological Replicate 2 Only	1
P90992	Mitochondrial 2-oxoglutarate/malate carrier protein	Biological Replicate 2 Only	1
Q9Y0V6	Mitochondrial import inner membrane translocase subunit Tim10	Biological Replicate 2 Only	1
O45319	Mitochondrial import inner membrane translocase subunit tim-13	Biological 1 and 2	2
P91454	Mitochondrial import inner membrane translocase subunit TIM14	Biological Replicate 2 Only	1
O17287	Mitochondrial import receptor subunit TOM22 homolog	Biological 1 and 2	3
Q02335	Mitochondrial import receptor subunit tomm-70	Biological Replicate 1 Only	1
Q9BKU4	Mitochondrial prohibitin complex protein 1	Biological 1 and 2	4
P50093	Mitochondrial prohibitin complex protein 2	Biological Replicate 2 Only	2
Q9XWH0	Mitotic checkpoint protein bub-3	Biological Replicate 2 Only	1
Q09591	Mitotic chromosome and X-chromosome-associated protein mix-1	Biological Replicate 1 Only	1
Q09412	Molybdopterin synthase sulfur carrier subunit	Biological Replicate 1 Only	1
Q23223	mRNA transport homolog 4	Biological Replicate 2 Only	1
P34713	Multidrug resistance protein pgp-3	Biological Replicate 1 Only	1
O01761	Muscle M-line assembly protein unc-89	Biological Replicate 2 Only	3
Q10656	Myoblast growth factor receptor egl-15	Biological Replicate 2 Only	1
P19625	Myosin regulatory light chain 1	Biological Replicate 2 Only	2
P19626	Myosin regulatory light chain 2	Biological Replicate 2 Only	3
P53014	Myosin, essential light chain	Biological 1 and 2	2
P02567	Myosin-1	Biological Replicate 2 Only	6

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P12845	Myosin-2	Biological 1 and 2	9
Q9XVI9	Myosin-2 essential light chain	Biological Replicate 2 Only	1
P12844	Myosin-3	Biological 1 and 2	16
P02566	Myosin-4	Biological 1 and 2	16
P90789	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7	Biological Replicate 2 Only	1
P24887	NADH-ubiquinone oxidoreductase chain 1	Biological 1 and 2	2
P24896	NADH-ubiquinone oxidoreductase chain 5	Biological Replicate 2 Only	1
Q86S66	Nascent polypeptide-associated complex subunit alpha	Biological 1 and 2	4
O17972	Nephrocystin-1-like protein	Biological Replicate 2 Only	1
Q9XXA7	Neuferricin homolog	Biological Replicate 2 Only	1
P36609	Neuronal calcium sensor 2	Biological 1 and 2	4
Q09502	Neuropeptide receptor 18	Biological 1 and 2	2
Q21568	NHP2-like protein 1 homolog	Biological Replicate 2 Only	1
Q9XUB9	Nicotinic receptor-associated protein 1	Biological Replicate 2 Only	1
Q21755	Nitric oxide synthase-interacting protein homolog	Biological Replicate 2 Only	1
O76463	Nitrilase and fragile histidine triad fusion protein NitFhit	Biological Replicate 1 Only	1
G5EDP2	Non-specific lipid-transfer protein-like 2	Biological Replicate 2 Only	2
Q9N4M4	Nuclear anchorage protein 1	Biological 1 and 2	4
Q21878	Nuclear hormone receptor family member nhr-1	Biological Replicate 1 Only	1
O17082	Nuclear hormone receptor family member nhr-125	Biological 1 and 2	2
O01931	Nuclear hormone receptor family member nhr-154	Biological 1 and 2	2
O17930	Nuclear hormone receptor family member nhr-268	Biological Replicate 2 Only	1
Q94407	Nuclear hormone receptor family member nhr-48	Biological Replicate 1 Only	1
O16425	Nuclear hormone receptor family member nhr-57	Biological Replicate 1 Only	1
G5EEH9	Nuclear pore complex protein Nup98-Nup96	Biological Replicate 2 Only	1
Q95QZ9	Nuclear protein localization protein 4 homolog 2	Biological Replicate 2 Only	1
P91136	Nucleolar complex protein 3 homolog	Biological Replicate 2 Only	3
O44411	Nucleolar GTP-binding protein 1	Biological 1 and 2	2
Q21276	Nucleolar protein 56	Biological 1 and 2	4
Q6BER5	Nucleosome-remodeling factor subunit NURF301-like	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P91917	Obg-like ATPase 1	Biological Replicate 2 Only	2
O61790	Orotate phosphoribosyltransferase	Biological 1 and 2	2
P34266	P granule abnormality protein 2	Biological Replicate 2 Only	2
A5JYW9	Paired amphipathic helix protein sin-3	Biological 1 and 2	2
O16785	Paralyzed arrest at two-fold protein 6	Biological 1 and 2	2
P10567	Paramyosin	Biological 1 and 2	9
Q11186	Patanin-like phospholipase domain-containing protein	Biological Replicate 2 Only	1
Q966B0	PAW domain-containing protein Y50D4B.3	Biological Replicate 2 Only	1
Q9TW67	Peptide-N(4)-(N-acetyl-beta-glucosaminyl)asparagine amidase	Biological 1 and 2	2
P52009	Peptidyl-prolyl cis-trans isomerase 1	Biological Replicate 2 Only	1
P52011	Peptidyl-prolyl cis-trans isomerase 3	Biological Replicate 2 Only	1
P52013	Peptidyl-prolyl cis-trans isomerase 5	Biological 1 and 2	4
P52014	Peptidyl-prolyl cis-trans isomerase 6	Biological Replicate 2 Only	1
P52015	Peptidyl-prolyl cis-trans isomerase 7	Biological 1 and 2	2
P52016	Peptidyl-prolyl cis-trans isomerase 8	Biological Replicate 2 Only	1
Q23490	Peroxidase mlt-7	Biological 1 and 2	2
Q95Y89	Pescadillo homolog	Biological Replicate 2 Only	2
P90925	Phenylalanine-4-hydroxylase	Biological Replicate 2 Only	1
Q19713	Phenylalanine--tRNA ligase beta subunit	Biological Replicate 2 Only	1
P40614	Phosphate carrier protein, mitochondrial	Biological 1 and 2	4
O16264	Phosphatidylethanolamine-binding protein homolog F40A3.3	Biological Replicate 2 Only	1
G5EE01	Phosphatidylinositol 3,4,5-trisphosphate 3-phosphatase and dual-specificity protein phosphatase daf-18	Biological Replicate 2 Only	1
Q9TXI7	Phosphatidylinositol 3-kinase catalytic subunit type 3	Biological Replicate 2 Only	1
O17828	piRNA biogenesis factor prde-1	Biological Replicate 1 Only	1
O61931	Piwi-like protein ergo-1	Biological 1 and 2	2
Q22943	Platelet-activating factor acetylhydrolase homolog 2	Biological Replicate 2 Only	1
Q9N4H4	Poly [ADP-ribose] polymerase 1	Biological Replicate 2 Only	1
Q9TXQ1	Poly [ADP-ribose] polymerase tankyrase	Biological Replicate 2 Only	1
O17087	Poly(A) RNA polymerase gld-2	Biological Replicate 1 Only	1
Q9U1S7	Polycystin-2	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
C7IVR4	Polyglutamine-repeat protein pqn-41	Biological Replicate 2 Only	1
P34369	Pre-mRNA-splicing factor 8 homolog	Biological 1 and 2	3
Q22006	Pre-rRNA-processing protein pro-1	Biological Replicate 2 Only	1
P52166	Presenilin sel-12	Biological Replicate 2 Only	1
Q01608	Presenilin spe-4	Biological Replicate 2 Only	1
O17071	Probable 26S proteasome regulatory subunit 10B	Biological 1 and 2	3
O16368	Probable 26S proteasome regulatory subunit 4	Biological Replicate 2 Only	1
Q20938	Probable 26S proteasome regulatory subunit rpn-6.1	Biological Replicate 2 Only	1
P34748	Probable 28S ribosomal protein S23, mitochondrial	Biological Replicate 2 Only	1
Q23629	Probable 2-oxoglutarate dehydrogenase E1 component DHKTD1 homolog, mitochondrial	Biological Replicate 2 Only	2
Q9N2V9	Probable 3',5'-cyclic phosphodiesterase pde-6	Biological Replicate 2 Only	1
Q95Y71	Probable 39S ribosomal protein L45, mitochondrial	Biological Replicate 2 Only	1
P41938	Probable 3-hydroxyacyl-CoA dehydrogenase B0272.3	Biological 1 and 2	3
Q9XTI0	Probable 3-hydroxyisobutyrate dehydrogenase, mitochondrial	Biological 1 and 2	2
Q21217	Probable 4-aminobutyrate aminotransferase, mitochondrial	Biological Replicate 2 Only	2
Q960A1	Probable aldehyde oxidase gad-3	Biological 1 and 2	2
P34479	Probable amino acid transporter skat-1	Biological Replicate 2 Only	1
Q10454	Probable arginine kinase F46H5.3	Biological 1 and 2	5
Q18803	Probable ATP synthase subunit g 2, mitochondrial	Biological Replicate 2 Only	1
P53585	Probable ATP-citrate synthase	Biological Replicate 2 Only	2
Q9XWE9	Probable ceramide synthase lagr-1	Biological Replicate 2 Only	1
P34575	Probable citrate synthase, mitochondrial	Biological 1 and 2	3
P34574	Probable clathrin heavy chain 1	Biological 1 and 2	3
Q20168	Probable coatomer subunit beta'	Biological 1 and 2	3
Q22498	Probable coatomer subunit gamma	Biological 1 and 2	2
Q23500	Probable cytoplasmic aconitate hydratase	Biological Replicate 2 Only	1
P54889	Probable delta-1-pyrroline-5-carboxylate synthase	Biological Replicate 2 Only	2
Q19196	Probable DNA polymerase epsilon subunit 2	Biological 1 and 2	2
P34669	Probable dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 3	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q93615	Probable electron transfer flavoprotein subunit alpha, mitochondrial	Biological Replicate 2 Only	1
P34460	Probable elongation factor 1-beta/1-delta 1	Biological 1 and 2	3
Q9U2H9	Probable elongation factor 1-beta/1-delta 2	Biological 1 and 2	3
P54412	Probable elongation factor 1-gamma	Biological Replicate 1 Only	2
P34559	Probable enoyl-CoA hydratase, mitochondrial	Biological Replicate 1 Only	1
O17214	Probable fumarate hydratase, mitochondrial	Biological Replicate 2 Only	1
Q09610	Probable galaptin lec-8	Biological 1 and 2	2
Q19000	Probable gamma-butyrobetaine dioxygenase	Biological Replicate 1 Only	1
P34497	Probable glutamine synthetase	Biological Replicate 1 Only	1
Q20772	Probable glutaryl-CoA dehydrogenase, mitochondrial	Biological Replicate 2 Only	1
P91252	Probable glutathione S-transferase 6	Biological Replicate 1 Only	1
P91253	Probable glutathione S-transferase 7	Biological Replicate 2 Only	1
Q09607	Probable glutathione S-transferase gst-36	Biological Replicate 2 Only	1
Q22949	Probable glycerol-3-phosphate acyltransferase, mitochondrial	Biological Replicate 2 Only	1
P34517	Probable glycerol-3-phosphate dehydrogenase 2	Biological 1 and 2	2
P46548	Probable glycylopeptide N-tetradecanoyltransferase	Biological 1 and 2	2
Q10907	Probable G-protein coupled receptor AH9.4	Biological Replicate 1 Only	1
Q27484	Probable histone H2B 3	Biological 1 and 2	2
Q93714	Probable isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial	Biological 1 and 2	2
O02640	Probable malate dehydrogenase, mitochondrial	Biological Replicate 2 Only	1
P90747	Probable manganese-transporting ATPase catp-8	Biological 1 and 2	2
P34650	Probable mannose-6-phosphate isomerase	Biological 1 and 2	2
Q09582	Probable methionine synthase	Biological Replicate 2 Only	1
P34385	Probable methylcrotonoyl-CoA carboxylase beta chain, mitochondrial	Biological Replicate 2 Only	1
Q17693	Probable methylenetetrahydrofolate reductase	Biological Replicate 1 Only	1
P52713	Probable methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial	Biological Replicate 2 Only	1
Q23381	Probable methylmalonyl-CoA mutase, mitochondrial	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
O02161	Probable mitochondrial import inner membrane translocase subunit tin-44	Biological Replicate 2 Only	2
Q20412	Probable NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 2, mitochondrial	Biological 1 and 2	2
Q93873	Probable NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial	Biological 1 and 2	2
Q22619	Probable NADH dehydrogenase [ubiquinone] iron-sulfur protein 8, mitochondrial	Biological Replicate 2 Only	1
Q18040	Probable ornithine aminotransferase, mitochondrial	Biological Replicate 2 Only	1
P91427	Probable phosphoglycerate kinase	Biological Replicate 2 Only	2
O18054	Probable prefoldin subunit 3	Biological 1 and 2	3
Q17435	Probable prefoldin subunit 4	Biological Replicate 2 Only	1
P52554	Probable prefoldin subunit 6	Biological 1 and 2	3
P34498	Probable pre-mRNA-splicing factor ATP-dependent RNA helicase mog-1	Biological Replicate 1 Only	1
O45244	Probable pre-mRNA-splicing factor ATP-dependent RNA helicase mog-4	Biological Replicate 2 Only	1
P34329	Probable protein disulfide-isomerase A4	Biological Replicate 2 Only	1
P49595	Probable protein phosphatase 2C F42G9.1	Biological Replicate 2 Only	1
P52899	Probable pyruvate dehydrogenase E1 component subunit alpha, mitochondrial	Biological 1 and 2	5
Q19537	Probable replication factor A 73 kDa subunit	Biological Replicate 2 Only	1
Q20496	Probable rho GDP-dissociation inhibitor	Biological 1 and 2	2
O17680	Probable S-adenosylmethionine synthase 1	Biological 1 and 2	3
P50306	Probable S-adenosylmethionine synthase 4	Biological Replicate 2 Only	1
Q09543	Probable serine/threonine-protein phosphatase PP2A regulatory subunit	Biological Replicate 2 Only	2
Q9XTU6	Probable small nuclear ribonucleoprotein E	Biological Replicate 1 Only	1
Q9N4G9	Probable small nuclear ribonucleoprotein G	Biological Replicate 2 Only	1
P91918	Probable small nuclear ribonucleoprotein-associated protein B	Biological Replicate 1 Only	1
Q18409	Probable splicing factor, arginine/serine-rich 6	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q09450	Probable succinyl-CoA:3-ketoacid coenzyme A transferase, mitochondrial	Biological 1 and 2	6
P34604	Probable translation initiation factor eIF-2B subunit alpha	Biological 1 and 2	2
P80361	Probable translation initiation factor eIF-2B subunit gamma	Biological Replicate 2 Only	1
P34477	Probable ubiquitin-conjugating enzyme E2 7	Biological Replicate 1 Only	1
Q17413	Probable uridine-cytidine kinase	Biological Replicate 1 Only	1
Q9NAE2	Probable urocanate hydratase	Biological Replicate 2 Only	1
Q9N5Y2	Probable very-long-chain enoyl-CoA reductase art-1	Biological Replicate 1 Only	1
Q21752	Probable voltage-dependent anion-selective channel	Biological Replicate 2 Only	5
P30628	Probable V-type proton ATPase 116 kDa subunit a	Biological 1 and 2	3
Q19626	Probable V-type proton ATPase subunit B	Biological 1 and 2	4
Q23680	Probable V-type proton ATPase subunit F	Biological Replicate 2 Only	1
Q22494	Probable V-type proton ATPase subunit H 2	Biological 1 and 2	7
Q9XW16	Profilin-1	Biological Replicate 2 Only	1
Q20025	Profilin-2	Biological 1 and 2	2
O45228	Proline dehydrogenase 1, mitochondrial	Biological Replicate 2 Only	1
Q19842	Propionyl-CoA carboxylase alpha chain, mitochondrial	Biological 1 and 2	8
O44156	Proteasome subunit alpha type-1	Biological Replicate 2 Only	2
Q27488	Proteasome subunit alpha type-2	Biological Replicate 2 Only	1
Q95008	Proteasome subunit alpha type-5	Biological 1 and 2	2
O17586	Proteasome subunit alpha type-6	Biological 1 and 2	2
Q95005	Proteasome subunit alpha type-7	Biological Replicate 2 Only	1
Q23237	Proteasome subunit beta type-3	Biological 1 and 2	3
Q18610	Protein abhd-3.2	Biological Replicate 2 Only	1
Q9U2X0	Protein arginine N-methyltransferase 1	Biological Replicate 2 Only	4
Q9XW42	Protein arginine N-methyltransferase 7	Biological Replicate 1 Only	1
Q23402	Protein BCCIP homolog	Biological 1 and 2	2
V6CJ04	Protein bicaudal D homolog	Biological 1 and 2	3
Q8IA98	Protein CASP	Biological Replicate 2 Only	1
W6RTA4	Protein clarinet	Biological Replicate 2 Only	1
Q03609	Protein CLASP-3	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
A5JYX5	Protein dhs-3	Biological Replicate 2 Only	2
Q17770	Protein disulfide-isomerase 2	Biological 1 and 2	6
Q09263	Protein EFR3 homolog	Biological Replicate 1 Only	1
O44400	Protein F37C4.5	Biological Replicate 2 Only	1
Q9XX47	Protein fam-161	Biological Replicate 2 Only	1
O18282	Protein FRG1 homolog	Biological Replicate 2 Only	1
P34885	Protein kinase C-like 1B	Biological Replicate 2 Only	1
P34705	Protein kup-1	Biological 1 and 2	2
G5EBZ4	Protein let-418	Biological Replicate 2 Only	1
Q27394	Protein let-653	Biological 1 and 2	2
Q27365	Protein lin-15A	Biological Replicate 2 Only	1
Q27395	Protein lin-15B	Biological 1 and 2	2
Q18508	Protein mel-28	Biological 1 and 2	2
G5EBL2	Protein mes-1	Biological Replicate 1 Only	2
G5EED4	Protein nipi-3	Biological 1 and 2	2
Q9XW10	Protein pad-1	Biological 1 and 2	3
Q95QA6	Protein pat-12	Biological 1 and 2	3
Q19775	Protein phosphatase ppm-1.A	Biological Replicate 2 Only	1
B7WN72	Protein shank	Biological Replicate 1 Only	1
Q9N3X8	Protein sidekick homolog	Biological Replicate 2 Only	2
O62301	Protein smg-8	Biological Replicate 2 Only	1
Q9XWJ1	Protein smg-9	Biological Replicate 2 Only	1
Q18685	Protein unc-112	Biological Replicate 1 Only	1
Q01630	Protein unc-33	Biological Replicate 2 Only	1
Q9XV66	Protein unc-80	Biological Replicate 1 Only	1
P37806	Protein unc-87	Biological 1 and 2	4
Q7YZW5	Protein vem-1	Biological Replicate 2 Only	1
P41846	Protein WBSCR14 homolog	Biological Replicate 2 Only	1
Q4TT88	Puromycin-sensitive aminopeptidase	Biological Replicate 2 Only	2
Q93425	Putative 28S ribosomal protein S5, mitochondrial	Biological Replicate 2 Only	1
O01513	Putative 40S ribosomal protein S4-like	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P46562	Putative aldehyde dehydrogenase family 7 member A1 homolog	Biological Replicate 2 Only	1
P49713	Putative alpha-L-fucosidase	Biological Replicate 2 Only	1
Q27245	Putative aminopeptidase W07G4.4	Biological Replicate 2 Only	1
Q22021	Putative ATP synthase subunit f, mitochondrial	Biological Replicate 2 Only	2
P34305	Putative ATP-dependent RNA helicase rha-2	Biological Replicate 2 Only	2
P34580	Putative ATP-dependent RNA helicase T26G10.1	Biological 1 and 2	3
Q20781	Putative carbonic anhydrase-like protein 1	Biological Replicate 1 Only	1
P55216	Putative cystathionine gamma-lyase 2	Biological 1 and 2	2
Q27515	Putative cytochrome P450 CYP13A6	Biological Replicate 2 Only	1
Q19264	Putative deoxyribose-phosphate aldolase	Biological 1 and 2	3
Q93650	Putative glutaminase 3	Biological Replicate 1 Only	1
O17919	Putative H/ACA ribonucleoprotein complex subunit 4	Biological Replicate 2 Only	1
Q19317	Putative neurobeachin homolog	Biological 1 and 2	3
C0HKD7	Putative peroxisomal biogenesis factor 10	Biological Replicate 1 Only	1
O62146	Putative phospholipase B-like 2	Biological 1 and 2	2
Q9BL07	Putative phospholipase B-like 3	Biological 1 and 2	2
P34344	Putative protein tag-250	Biological Replicate 2 Only	1
Q18846	Putative ribosomal protein S6 kinase alpha-2	Biological 1 and 2	2
P34528	Putative serine protease K12H4.7	Biological 1 and 2	3
Q17703	Putative steroid dehydrogenase 1	Biological Replicate 2 Only	1
O17730	Putative thiosulfate sulfurtransferase mpst-1	Biological Replicate 2 Only	1
Q9U2G0	Putative U5 small nuclear ribonucleoprotein 200 kDa helicase	Biological Replicate 2 Only	3
Q10941	Putative UDP-glucuronosyltransferase ugt-46	Biological Replicate 2 Only	1
Q18081	Putative UDP-glucuronosyltransferase ugt-48	Biological 1 and 2	2
Q22181	Putative UDP-glucuronosyltransferase ugt-56	Biological Replicate 2 Only	1
P50581	Putative uncharacterized protein T27A8.3	Biological Replicate 2 Only	1
Q10040	Putative zinc protease C28F5.4	Biological Replicate 2 Only	2
O17732	Pyruvate carboxylase 1	Biological 1 and 2	3
O44451	Pyruvate dehydrogenase E1 component subunit beta, mitochondrial	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q22366	Rab-3-interacting molecule unc-10	Biological Replicate 2 Only	1
Q07292	Raf homolog serine/threonine-protein kinase	Biological 1 and 2	2
G5EDB9	Rap guanine nucleotide exchange factor	Biological 1 and 2	2
P34578	Rap guanine nucleotide exchange factor 1	Biological Replicate 1 Only	1
Q22720	Ras GTPase-activating protein gap-1	Biological Replicate 2 Only	2
P22981	Ras protein let-60	Biological Replicate 2 Only	1
Q03206	Ras-related protein ced-10	Biological Replicate 2 Only	1
O01803	Ras-related protein rab-11.1	Biological Replicate 2 Only	1
Q23310	Receptor-type guanylate cyclase gcy-14	Biological Replicate 2 Only	1
X5M8U1	Receptor-type guanylate cyclase gcy-17	Biological Replicate 2 Only	1
G5EEE9	Receptor-type guanylate cyclase gcy-23	Biological 1 and 2	4
A0A078BQP2	Receptor-type guanylate cyclase gcy-25	Biological Replicate 1 Only	1
Q23681	Receptor-type guanylate cyclase gcy-4	Biological Replicate 1 Only	1
Q23682	Receptor-type guanylate cyclase gcy-5	Biological Replicate 2 Only	1
N1NVB7	Receptor-type guanylate cyclase gcy-6	Biological Replicate 2 Only	1
E7EAU8	Receptor-type guanylate cyclase gcy-9	Biological Replicate 2 Only	1
G5EFV3	Regulator of spindle assembly protein 2	Biological Replicate 2 Only	1
Q93575	Regulator of telomere elongation helicase 1 homolog	Biological 1 and 2	3
P53016	Replication factor C subunit 4	Biological Replicate 2 Only	1
P92199	Rho-associated protein kinase let-502	Biological Replicate 1 Only	1
P42170	Ribonucleoside-diphosphate reductase small chain	Biological Replicate 2 Only	1
Q18674	Ribosomal RNA processing protein 1 homolog	Biological Replicate 2 Only	1
Q9XX15	Ribosomal RNA small subunit methyltransferase nep-1	Biological Replicate 2 Only	1
P34524	Ribosome biogenesis protein BRX1 homolog	Biological 1 and 2	3
Q9N3F0	Ribosome production factor 2 homolog	Biological Replicate 2 Only	1
Q95QG8	RNA polymerase II subunit A C-terminal domain phosphatase	Biological Replicate 2 Only	1
Q03560	RNA polymerase-associated protein CTR9	Biological 1 and 2	2
G5EBY0	RNA polymerase-associated protein RTF1 homolog	Biological 1 and 2	3
Q09EF7	Rootletin	Biological 1 and 2	3
Q22053	rRNA 2'-O-methyltransferase fibrillar	Biological 1 and 2	4
O62251	rRNA methyltransferase 2, mitochondrial	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q10121	RutC family protein C23G10.2	Biological Replicate 1 Only	1
Q9GZH2	RuvB-like 2	Biological Replicate 1 Only	1
Q19469	Serine/threonine kinase SAD-1	Biological Replicate 2 Only	1
P84199	Serine/threonine-protein kinase D1044.8	Biological Replicate 2 Only	1
O01583	Serine/threonine-protein kinase mrck-1	Biological Replicate 2 Only	2
Q9TW45	Serine/threonine-protein kinase par-1	Biological Replicate 2 Only	1
Q9GN62	Serine/threonine-protein kinase par-4	Biological Replicate 1 Only	1
O01510	Serine/threonine-protein kinase smg-1	Biological Replicate 2 Only	1
P46549	Serine/threonine-protein kinase SULU	Biological Replicate 2 Only	1
Q09499	Serine/threonine-protein kinase/endoribonuclease ire-1	Biological Replicate 2 Only	1
G5EGK8	Serine/threonine-protein phosphatase 2A catalytic subunit	Biological 1 and 2	3
O18178	Serine/threonine-protein phosphatase 2A regulatory subunit pptr-1	Biological 1 and 2	2
O02217	Serine/threonine-protein phosphatase 2A regulatory subunit rsa-1	Biological Replicate 2 Only	1
Q09422	Serine/threonine-protein phosphatase Pgam5, mitochondrial	Biological Replicate 2 Only	1
Q09206	Serpentine receptor class alpha-4	Biological Replicate 2 Only	1
Q20249	Serpentine receptor class epsilon-8	Biological Replicate 2 Only	1
P91535	Serpentine receptor class gamma-20	Biological Replicate 2 Only	1
P54127	Serpentine receptor class gamma-5	Biological 1 and 2	2
Q966L5	Serrate RNA effector molecule homolog	Biological Replicate 2 Only	1
Q9N4D6	Sestrin homolog	Biological Replicate 2 Only	1
Q09415	SET domain-containing protein 14	Biological Replicate 2 Only	1
G5EFZ3	Set1/Ash2 histone methyltransferase complex subunit ash-2	Biological Replicate 2 Only	1
G5EBL3	Sex determination and dosage compensation protein sdc-2	Biological Replicate 2 Only	1
P34709	Sex-determining transformer protein 2	Biological Replicate 2 Only	1
O16927	Signal recognition particle 14 kDa protein	Biological Replicate 1 Only	1
O01498	Signal transducing adapter molecule 1	Biological Replicate 2 Only	1
Q17348	Small nuclear ribonucleoprotein Sm D3	Biological Replicate 2 Only	1
P34714	SPARC	Biological Replicate 2 Only	1
Q10579	Spermatocyte protein spe-26	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q9XWS0	Spindle and kinetochore-associated protein 1	Biological Replicate 2 Only	1
Q20010	Spindle assembly abnormal protein 5	Biological Replicate 2 Only	1
O62479	Spindle assembly abnormal protein 6	Biological Replicate 1 Only	1
P91870	Spindle-defective protein 2	Biological Replicate 2 Only	1
Q18212	Spliceosome RNA helicase DDX39B homolog	Biological Replicate 2 Only	2
P90978	Splicing factor U2AF 65 kDa subunit	Biological Replicate 2 Only	2
Q8WQG9	Stress-activated protein kinase jnk-1	Biological Replicate 2 Only	2
O16259	Stress-induced-phosphoprotein 1	Biological Replicate 2 Only	3
O01789	Structural maintenance of chromosomes protein 1	Biological 1 and 2	2
B2FDA8	Structural maintenance of chromosomes protein 3	Biological Replicate 1 Only	1
G5EG17	Structural maintenance of chromosomes protein 6 homolog smc-6	Biological Replicate 1 Only	1
Q09508	Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial	Biological Replicate 2 Only	1
Q09545	Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial	Biological Replicate 2 Only	1
P53588	Succinate--CoA ligase [ADP-forming] subunit beta, mitochondrial	Biological Replicate 2 Only	1
P53589	Succinate--CoA ligase [GDP-forming] subunit beta, mitochondrial	Biological 1 and 2	5
Q94225	Sulfate permease family protein 3	Biological Replicate 2 Only	1
P34697	Superoxide dismutase [Cu-Zn]	Biological Replicate 2 Only	1
Q93212	Suppressor of lurcher protein 1	Biological 1 and 2	2
Q10122	Suppressor of organelle fusion 2	Biological 1 and 2	2
O17582	Suppressor of presenilin protein 4	Biological Replicate 1 Only	1
G5EDG2	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A containing DEAD/H box 1 homolog	Biological Replicate 2 Only	1
G5ECL2	Synaptojanin	Biological Replicate 2 Only	1
P34693	Synaptotagmin-1	Biological Replicate 2 Only	1
Q9GSX9	Synembryn	Biological Replicate 2 Only	1
Q93646	Syntrophin-1	Biological Replicate 2 Only	1
Q9GZC8	Systemic RNA interference defective protein 1	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P41988	T-complex protein 1 subunit alpha	Biological 1 and 2	4
P47207	T-complex protein 1 subunit beta	Biological 1 and 2	4
P47208	T-complex protein 1 subunit delta	Biological 1 and 2	3
P47209	T-complex protein 1 subunit epsilon	Biological Replicate 2 Only	3
Q9N4J8	T-complex protein 1 subunit gamma	Biological Replicate 2 Only	3
Q9N358	T-complex protein 1 subunit theta	Biological 1 and 2	7
P46550	T-complex protein 1 subunit zeta	Biological 1 and 2	7
Q95YE9	Telomere length regulation protein clk-2	Biological 1 and 2	2
G5EGQ6	Teneurin-1	Biological 1 and 2	2
G5EEM6	TGF-beta-activated kinase 1 and MAP3K7-binding protein 1	Biological Replicate 2 Only	1
Q18484	Thioredoxin-related transmembrane protein 2 homolog	Biological Replicate 2 Only	1
P52709	Threonine--tRNA ligase, cytoplasmic	Biological 1 and 2	5
O17389	Thymosin beta	Biological Replicate 2 Only	1
G4SLH0	Titin homolog	Biological 1 and 2	4
Q18885	Transcription factor BTF3 homolog	Biological Replicate 2 Only	1
P28515	Transcription factor elt-1	Biological Replicate 2 Only	1
G5EGM3	Transcription initiation factor TFIID subunit 1	Biological Replicate 2 Only	1
G5EEV2	Transcription-associated protein 1	Biological Replicate 2 Only	2
Q93971	Transient receptor potential channel	Biological Replicate 2 Only	1
P54811	Transitional endoplasmic reticulum ATPase homolog 1	Biological 1 and 2	10
P54812	Transitional endoplasmic reticulum ATPase homolog 2	Biological 1 and 2	13
Q93573	Translationally-controlled tumor protein homolog	Biological 1 and 2	5
Q11080	Transmembrane BAX inhibitor motif-containing protein 4	Biological Replicate 2 Only	1
D3KZG3	Transmembrane channel-like protein 1	Biological Replicate 2 Only	1
Q20687	Transmembrane protein 237 homolog	Biological Replicate 1 Only	1
Q22288	Transthyretin-like protein 15	Biological Replicate 2 Only	1
Q10657	Triosephosphate isomerase	Biological Replicate 2 Only	1
Q09541	Tripeptidyl-peptidase 2	Biological Replicate 2 Only	1
Q22866	Tropomyosin isoforms a/b/d/f	Biological 1 and 2	9
Q27249	Tropomyosin isoforms c/e	Biological 1 and 2	5
Q9GYF1	Troponin I 2	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P34690	Tubulin alpha-2 chain	Biological 1 and 2	4
P91910	Tubulin alpha-3 chain	Biological 1 and 2	3
P52274	Tubulin alpha-8 chain	Biological Replicate 2 Only	1
P12456	Tubulin beta-1 chain	Biological 1 and 2	7
P52275	Tubulin beta-2 chain	Biological 1 and 2	16
P41937	Tubulin beta-4 chain	Biological Replicate 2 Only	7
Q09647	Tubulin polyglutamylase ttl-4	Biological Replicate 1 Only	1
P91127	Tubulin polymerization-promoting protein homolog	Biological Replicate 2 Only	1
Q23551	Twitchin	Biological 1 and 2	5
P28192	Tyrosine-protein phosphatase 4	Biological Replicate 2 Only	1
Q9BMN8	Tyrosine-protein phosphatase Lar-like	Biological Replicate 2 Only	2
O01884	Ubiquinone biosynthesis monooxygenase COQ6, mitochondrial	Biological Replicate 1 Only	1
Q17361	Ubiquitin carboxyl-terminal hydrolase 14	Biological Replicate 2 Only	1
Q7JKC3	Ubiquitin carboxyl-terminal hydrolase 7	Biological Replicate 1 Only	1
G5EES6	Ubiquitin fusion degradation protein 3 homolog	Biological Replicate 2 Only	1
Q95XX0	Ubiquitin-conjugating enzyme E2 13	Biological Replicate 2 Only	1
O45495	Ubiquitin-conjugating enzyme E2 variant 1	Biological Replicate 2 Only	1
P91430	Ubiquitin-like modifier-activating enzyme 5	Biological Replicate 1 Only	1
P37165	Ubiquitin-like protein 1-40S ribosomal protein S27a	Biological 1 and 2	2
Q564Q1	UDP-glucose 4-epimerase	Biological Replicate 2 Only	1
Q19905	UDP-glucose 6-dehydrogenase	Biological Replicate 2 Only	1
O18158	UDP-N-acetylglucosamine--peptide N-acetylglucosaminyltransferase	Biological 1 and 2	2
Q18779	UDP-sugar transporter sqv-7	Biological Replicate 1 Only	1
O17622	UMP-CMP kinase 1	Biological Replicate 2 Only	1
P34261	Uncharacterized amino-acid permease B0303.11	Biological Replicate 2 Only	1
Q11083	Uncharacterized calcium-binding protein B0563.7	Biological 1 and 2	2
Q09475	Uncharacterized helicase C28H8.3	Biological 1 and 2	4
Q09461	Uncharacterized mitochondrial carrier C16C10.1	Biological Replicate 2 Only	1
Q11177	Uncharacterized oxidoreductase dhs-27	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q10912	Uncharacterized protein B0034.4	Biological Replicate 2 Only	1
P34255	Uncharacterized protein B0303.3	Biological Replicate 2 Only	1
Q09214	Uncharacterized protein B0495.5	Biological Replicate 1 Only	1
Q11109	Uncharacterized protein C03B1.2	Biological Replicate 1 Only	1
Q11111	Uncharacterized protein C03B1.4	Biological Replicate 1 Only	1
Q11124	Uncharacterized protein C03F11.3	Biological Replicate 2 Only	1
Q11181	Uncharacterized protein C05D10.4	Biological 1 and 2	2
P48053	Uncharacterized protein C05D11.1	Biological 1 and 2	2
Q18232	Uncharacterized protein C26F1.3	Biological Replicate 1 Only	1
Q10030	Uncharacterized protein C27D6.1	Biological Replicate 2 Only	1
Q09259	Uncharacterized protein C30G12.6	Biological 1 and 2	2
Q18594	Uncharacterized protein C44B7.5	Biological Replicate 2 Only	1
Q09280	Uncharacterized protein C45G9.8	Biological Replicate 2 Only	1
P34367	Uncharacterized protein C50C3.2	Biological Replicate 2 Only	1
Q09936	Uncharacterized protein C53C9.2	Biological 1 and 2	2
Q09287	Uncharacterized protein C56G2.3	Biological Replicate 2 Only	1
P41954	Uncharacterized protein D1044.6	Biological 1 and 2	3
Q09531	Uncharacterized protein F07F6.4	Biological Replicate 2 Only	1
P53015	Uncharacterized protein F31E3.4	Biological Replicate 2 Only	1
Q09560	Uncharacterized protein F36G3.1	Biological Replicate 2 Only	1
P34430	Uncharacterized protein F44B9.9	Biological Replicate 2 Only	1
P34433	Uncharacterized protein F44E2.3	Biological Replicate 1 Only	1
Q09389	Uncharacterized protein F47D12.3	Biological Replicate 2 Only	1
P34445	Uncharacterized protein F54C8.7	Biological Replicate 2 Only	1
P34504	Uncharacterized protein K04H4.2	Biological Replicate 1 Only	1
P45967	Uncharacterized protein mdmh-35	Biological Replicate 2 Only	1
P34542	Uncharacterized protein R05D3.9	Biological Replicate 2 Only	1
Q09609	Uncharacterized protein R07B1.9	Biological 1 and 2	2
Q09350	Uncharacterized protein T09B9.4	Biological Replicate 2 Only	1
Q09354	Uncharacterized protein T15H9.4	Biological Replicate 2 Only	1
Q09355	Uncharacterized protein T15H9.5	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q10012	Uncharacterized protein T19C3.6	Biological Replicate 2 Only	1
P46064	Uncharacterized protein tag-51	Biological 1 and 2	2
O02485	Uncharacterized protein ZK1073.1	Biological Replicate 2 Only	1
P34603	Uncharacterized protein ZK1098.3	Biological Replicate 1 Only	1
Q09359	Uncharacterized protein ZK1307.1	Biological 1 and 2	2
Q02333	Uncharacterized protein ZK370.6	Biological 1 and 2	3
Q09663	Uncharacterized protein ZK673.4	Biological Replicate 1 Only	1
P34675	Uncharacterized protein ZK688.5	Biological 1 and 2	2
P91443	Unconventional myosin heavy chain 6	Biological Replicate 2 Only	1
O17606	UPF0160 protein C27H6.8	Biological Replicate 2 Only	1
Q09600	Vacuolar protein sorting-associated protein 11 homolog	Biological 1 and 2	2
Q11182	Vacuolar protein sorting-associated protein 16 homolog	Biological Replicate 1 Only	1
Q23194	Vacuolar protein sorting-associated protein 18 homolog	Biological 1 and 2	2
Q19954	Vacuolar protein sorting-associated protein 41 homolog	Biological Replicate 1 Only	1
G5EFV8	Vacuolar protein sorting-associated protein 52 homolog	Biological Replicate 1 Only	1
Q9U1Q4	Valine--tRNA ligase	Biological Replicate 2 Only	2
O17040	Very-long-chain (3R)-3-hydroxyacyl-CoA dehydratase hpo-8	Biological Replicate 2 Only	1
Q09517	Very-long-chain 3-oxoacyl-coA reductase let-767	Biological 1 and 2	3
Q94392	Vesicle-fusing ATPase	Biological Replicate 1 Only	1
P19826	Vinculin	Biological Replicate 2 Only	2
P18948	Vitellogenin-6	Biological Replicate 2 Only	1
Q21898	V-type proton ATPase 16 kDa proteolipid subunit 1	Biological Replicate 2 Only	1
Q9XW92	V-type proton ATPase catalytic subunit A	Biological 1 and 2	16
Q9XXU9	V-type proton ATPase subunit C	Biological 1 and 2	3
Q23229	XO lethal protein 1	Biological 1 and 2	2
Q95XU6	Zinc finger CCCH domain-containing protein 14	Biological Replicate 2 Only	1
P34706	Zinc finger protein sdc-3	Biological Replicate 2 Only	2
Q21432	Zinc metalloproteinase nas-11	Biological Replicate 1 Only	1
Q21180	Zinc metalloproteinase nas-16	Biological 1 and 2	2
Q21181	Zinc metalloproteinase nas-19	Biological Replicate 2 Only	1
Q9U3S9	Zinc metalloproteinase nas-6	Biological Replicate 2 Only	1

Protein	100 mM H₂O₂ FLOW	100 mM H₂O₂ PIXY	200 mM H₂O₂ PIXY
A6NNZ2	2	2	11
O60361	1	1	1
P04350	6	5	66.5
P04908	5.5	3	13
P07437	9.5	27.5	161.5
P08238	13.5	2	5
POC0S8	5.5	0.5	13.5
P0DMV9	0.5	4	4
P17066	0.5	4	4
P20671	5.5	0.5	13
P22392	1	1	7
P34931	21.5	21.5	5.5
P60709	36.5	39	28
P62736	34.5	36.5	72.5
P63261	52	50.5	370.5
P68032	43	39	72.5
P68133	41.5	39	72.5
P68371	11.5	29	160
Q13509	5	13.5	56
Q3ZCM7	5	5.5	14
Q562R1	1.5	4.5	10
Q6FI13	9	4.5	28
Q6S8J3	4.5	5	75.5
Q7L7L0	3.5	1	4
Q93077	5.5	1	13.5
Q96KK5	5.5	1	13.5
Q99878	5.5	1	13.5
Q9BTM1	5.5	1	13.5

Q9BUF5	8	7.5	20.5
Q9BVA1	10	28.5	164.5
Q9BYX7	0.5	2.5	1
Q9H4B7	1	1	2
A5A3E0	0.5	3	1
O75475	0.5	1.5	63
P04350	17	20.5	121
P04406	2.5	2	72.5
P07197	21.5	5.5	33
P07237	5.5	8	11
P07900	2	1.5	49
P07910	1.5	2.5	8.5
P08238	15.5	4.5	35
P08670	5	9	34
P0DMV9	63.5	29	127.5
P10809	30	67	61.5
P11021	23.5	24.5	8
P11142	16	16	39.5
P12277	5	2	124.5
P13667	4	13	8.5
P13797	3	5	12
P14314	3.5	8	2.5
P14625	2	4	20.5
P15531	3.5	2	14.5
P18206	1	10	37
P19338	4.5	14	7.5
P20674	3.5	2.5	2
P22314	9.5	2	11.5
P22626	49.5	10	58.5
P23246	1	11	64

P27348	15.5	5	14
P27797	36	24	60.5
P30101	6.5	7.5	17.5
P30153	0.5	2.5	5
P31946	14.5	5	3
P31948	6	33.5	45.5
P34932	6	4.5	14
P35579	16	11.5	83
P35613	1.5	1.5	4.5
P37802	12	10.5	2.5
P38646	24	11.5	15.5
P40926	1.5	0.5	2.5
P48741	0.5	4	4
P49321	3	9.5	8
P50991	1	1	16.5
P60660	7	9.5	2.5
P60709	49.5	41	28
P60842	2.5	4	34.5
P61978	15.5	20.5	15.5
P62805	4	0.5	5.5
P63267	34.5	36.5	72.5
P67809	39.5	39.5	5.5
P68104	4	2	230.5
Q00839	4.5	6	20
Q04760	12	0.5	8
Q06830	1	1	10
Q07021	2	4	73.5
Q13263	15	6	27
Q13509	14	16	60
Q13885	10	28.5	164.5

Q15233	4	15.5	89.5
Q15365	4.5	9	16
Q15459	2	2.5	4
Q15819	3	7.5	16.5
Q16777	9	4.5	28
Q5VTE0	4	2	227.5
Q8NC51	7	12	2.5
Q9NS69	2.5	3	3
Average	10.94791667	11.08333333	41.44270833
ST.DEV	13.56048423	13.26682976	59.30389487
ST.DEV.P	13.48967181	13.1975508	58.99421184
ST.DEV.S	13.56048423	13.26682976	59.30389487

Table S7. Average number of modifications per system (Full list of raw data). The number of residues modified per protein have a large range which results in a standard deviation value greater than the average. Some values are averages of modifications found on each protein between the 2 biological replicates.