Supporting Information

Validation of the Applicability of In-Cell Fast Photochemical Oxidation of Proteins (IC-FPOP) Across Multiple Eukaryotic Cell Lines

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Table S1. IC-FPOP oxidatively modified proteins in Vero Cells.

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
A8JZY9	10 kDa heat shock protein	Biological Replicate 1 Only	1
Q12904-2	26S proteasome regulatory subunit 6A	Biological Replicate 1 Only	1
Q16864-2	40S ribosomal protein S26	Biological Replicate 1 Only	1
A0A024R663	40S ribosomal protein S3	Biological Replicate 1 Only	1
B4E0X8	60S acidic ribosomal protein P0	Biological Replicate 1 Only	1
V9HW42	60S acidic ribosomal protein P2	Biological Replicate 1 Only	1
O14964	Acetyl-CoA acetyltransferase	Biological Replicate 1 Only	1
U3KPR7	Actin	Biological Replicate 1 Only	1
Q9NP61	Actin	Biological Replicate 1 Only	1
P08758	Activated tyrosine kinase PDGFRB	Biological Replicate 1 Only	1
Q16643-3	Acyl-CoA-binding protein	Biological Replicate 1 Only	1
Q92625	ADP-ribosylation factor GTPase-activating protein 3	Biological Replicate 1 Only	1
P07203	Alpha-actinin-1	Biological Replicate 1 Only	1
B7Z4E6	Alpha-enolase	Biological Replicate 1 Only	1
Q9P0L0	Aminoacyl tRNA synthase complex-interacting multifunctional protein 1	Biological Replicate 1 Only	1
P12109	Ankyrin repeat and BTB/POZ domain-containing protein 1	Biological Replicate 1 Only	1
Q86VD1	Ankyrin repeat and SAM domain-containing protein 1A	Biological Replicate 1 Only	1
Q13562	Ankyrin repeat domain-containing protein 30B	Biological Replicate 1 Only	1
A0A173ADH0	Annexin A5	Biological Replicate 1 Only	1
A0A024RA42	Apolipoprotein C-I	Biological Replicate 1 Only	1
Q9UHV9	ATP synthase subunit d	Biological Replicate 1 Only	1
P41236		Biological Replicate 1 Only	1
	ATP synthase subunit e		1
P04844	ATP-binding cassette sub-family F member 1	Biological Replicate 1 Only	1
Q13740	ATP-dependent RNA helicase A	Biological Replicate 1 Only	1
Q6IAN0	ATP-dependent RNA helicase DDX42	Biological Replicate 1 Only	1
P55735-3	Autophagy-related protein 2 homolog B	Biological Replicate 1 Only	1
Q969K4	Basic leucine zipper and W2 domains 2	Biological Replicate 1 Only	1
O75691	Biotinprotein ligase ligase ; Biotin] ligase ; Biotin ligase ; Biotin ligase]	Biological Replicate 1 Only	1
C9JMV8	CAD protein	Biological Replicate 1 Only	1
P54707-2	Cadherin 5	Biological Replicate 1 Only	1
B2R960	Cadherin-6	Biological Replicate 1 Only	1
A4D111	Calpain small subunit 1	Biological Replicate 1 Only	2
Q8WZA1-2	Calpain-10	Biological Replicate 1 Only	1
Q8N5L1	Carbohydrate sulfotransferase 5	Biological Replicate 1 Only	1
B1AK88	Caveolae-associated protein 1	Biological Replicate 1 Only	1
Q13740	CD166 antigen	Biological Replicate 1 Only	2
Q92734	CDV3 homolog	Biological Replicate 1 Only	1
O60304	Centromere protein F	Biological Replicate 1 Only	1
		Biological Replicate 1 Only	1
Q2M2I3	Centrosomal protein of 85 kDa		1
P55285	CGI-150 protein	Biological Replicate 1 Only	1
K7ER00	Chondroitin sulfate proteoglycan 4	Biological Replicate 1 Only	1
A0A0B4J2C3	Chromosome 11 open reading frame 58	Biological Replicate 1 Only	1
Q8TD35-2	Cold shock domain containing E1	Biological Replicate 1 Only	1
B2RAN0	Collagen alpha-1 chain	Biological Replicate 1 Only	1
B2R665	Collagen alpha-2 chain	Biological Replicate 1 Only	1
A0A1B0GWD8	Collagen alpha-5 chain chain)	Biological Replicate 1 Only	1
Q8TDM6	Collagen	Biological Replicate 1 Only	1
Q53FP0	COP9 signalosome complex subunit 3	Biological Replicate 1 Only	1
Q92804	CSDA protein	Biological Replicate 1 Only	1
Q6SA08-2	Cyclic nucleotide-binding domain-containing protein 2	Biological Replicate 1 Only	1
P17677-2	Cyclic nucleotide-gated cation channel beta-1	Biological Replicate 1 Only	1
P20827	Cytohesin-1	Biological Replicate 1 Only	1
A0A024R4E5	Cytoplasmic dynein 1 heavy chain 1	Biological Replicate 1 Only	1
Q15149	Dehydrogenase/reductase SDR family member 7B	Biological Replicate 1 Only	1
I3L3U6	Deleted.	Biological Replicate 1 Only	1
Q15438	Disks large homolog 5	Biological Replicate 1 Only	1
Q86XK7-2	Disks large homolog 3	Biological Replicate 1 Only	1
P49593	Dolichyl-diphosphooligosaccharideprotein glycosyltransferase subunit 2	Biological Replicate 1 Only	1
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B2R5M8	Drebrin-like protein	Biological Replicate 1 Only	1
094826	Dynactin subunit 2	Biological Replicate 1 Only	1
Q8N394	Dynein heavy chain 6	Biological Replicate 1 Only	1
Q75ND3	E3 SUMO-protein ligase KIAA1586	Biological Replicate 1 Only	1
V9HWF4	E3 ubiquitin-protein ligase TRIP12	Biological Replicate 1 Only	1
F5H1U9	E3 UFM1-protein ligase 1	Biological Replicate 1 Only	1
P17980	Elongation factor 1-alpha 2	Biological Replicate 1 Only	1
B3KS28	Elongation factor 1-gamma	Biological Replicate 1 Only	1
Q9UNF1	Elongation factor Ts	Biological Replicate 1 Only	2
		Biological Replicate 1 Only	1

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B2RA03 Non-POU domain containing octamer-binding isoform 1 Biological Replicate 1 Only 3				1
B2RA03 Non-POU domain containing octamer-binding isoform 1 Biological Replicate 1 Only 3				1
	B2RA03		Biological Replicate 1 Only	3
	Q86XP3			1
Q86UV5-8 Nuclear distribution protein nudE homolog 1 Biological Replicate 1 Only 1				1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
O75369	Nuclear RNA export factor 1	Biological Replicate 1 Only	2
Q8NE71	NudC-like protein	Biological Replicate 1 Only	1
Q8NF72	Otoferlin	Biological Replicate 1 Only	1
Q13330	PCTAIRE protein kinase 2	Biological Replicate 1 Only	1
Q99543-2	PDZ and LIM domain protein 7	Biological Replicate 1 Only	1
B4DV79	PhenylalaninetRNA ligase alpha subunit	Biological Replicate 1 Only	1
			1
D6RGD1	Phosphatidylinositol-4-phosphate 3-kinase	Biological Replicate 1 Only	1
P23396	Phosphoglycerate kinase	Biological Replicate 1 Only	1
A0A024RDS1	Plasma membrane calcium-transporting ATPase 1	Biological Replicate 1 Only	1
B4DTN5	Pleckstrin homology-like domain family B member 2	Biological Replicate 1 Only	1
P07602	Podocin	Biological Replicate 1 Only	1
P08151	Potassium voltage-gated channel subfamily H member 2	Biological Replicate 1 Only	1
K7EPF9	Potassium voltage-gated channel subfamily KQT member 4	Biological Replicate 1 Only	1
O94874	Potassium-transporting ATPase alpha chain 2 /K ATPase subunit alpha)	Biological Replicate 1 Only	1
P09493-10	Prefoldin subunit 2	Biological Replicate 1 Only	2
V9HW92	Prefoldin subunit 3	Biological Replicate 1 Only	1
P29966	Prosaposin	Biological Replicate 1 Only	1
P38606	Proteasome 26S non-ATPase subunit 2 variant	Biological Replicate 1 Only	1
B4DW52	Protein disulfide-isomerase	Biological Replicate 1 Only	5
Q9NXZ1	Protein disulfide-isomerase		5
		Biological Replicate 1 Only	
Q96M20	Protein FAM240C	Biological Replicate 1 Only	
P50747	Protein FAM83E	Biological Replicate 1 Only	1
P05997	Protein LKAAEAR1	Biological Replicate 1 Only	1
Q6ZU15	Protein O-linked-mannose beta-1	Biological Replicate 1 Only	1
Q6P2H3	Protein O-mannosyl-transferase TMTC2	Biological Replicate 1 Only	1
B7ZLW0	Protein phosphatase 1	Biological Replicate 1 Only	1
A0A0K0K1L8	Protein phosphatase 1F /calmodulin-dependent protein kinase phosphatase)	Biological Replicate 1 Only	1
Q9NQC3	Protein phosphatase inhibitor 2	Biological Replicate 1 Only	1
Q86YL5-2	Protein PRRC2C	Biological Replicate 1 Only	1
B4DPA0	Protein SEC13 homolog	Biological Replicate 1 Only	1
Q9UMX5	Protein TFG	Biological Replicate 1 Only	1
Q90MA5 Q9NR12-3	Putative heat shock protein HSP 90-alpha A4	Biological Replicate 1 Only	2
			2
D3DWY7	Pyridoxine 5'-phosphate oxidase variant	Biological Replicate 1 Only	
V9HW98	RAB21	Biological Replicate 1 Only	1
Q14614	RABGGTA protein	Biological Replicate 1 Only	1
A0A024RB14	Radixin	Biological Replicate 1 Only	1
Q9UK76	Ragulator complex protein LAMTOR1	Biological Replicate 1 Only	1
A8K8P1	Receptor-type tyrosine-protein phosphatase alpha	Biological Replicate 1 Only	1
A0A140VK53	Receptor-type tyrosine-protein phosphatase F	Biological Replicate 1 Only	1
Q96MQ0	Reticulon-4	Biological Replicate 1 Only	1
A0A1G4P1I6	Rho guanine nucleotide exchange factor 2	Biological Replicate 1 Only	1
A0A024R1N1	RNA binding motif protein 3	Biological Replicate 1 Only	1
Q7Z6E5	rRNA-processing protein UTP23 homolog	Biological Replicate 1 Only	1
Q92993-3	Ryanodine receptor 3	Biological Replicate 1 Only	1
Q9BV86-2	Sarcoma antigen 1	Biological Replicate 1 Only	1
Q59FX5		Biological Replicate 1 Only	1
	Septin-14		1
A8TX70	Serine/threonine kinase 33	Biological Replicate 1 Only	
P35241	SF3B1 protein	Biological Replicate 1 Only	1
Q9P032	Similar to Chain	Biological Replicate 1 Only	1
F5GXV7	Small subunit processome component 20 homolog	Biological Replicate 1 Only	1
O15240	Solute carrier family 2	Biological Replicate 1 Only	1
Q14028	Sp3 transcription factor variant	Biological Replicate 1 Only	1
Q9HCI6	Sperm flagellar protein 2	Biological Replicate 1 Only	1
Q9GZS9-2	StAR-related lipid transfer protein 9	Biological Replicate 1 Only	1
Q59EA3	Sterile alpha and TIR motif-containing protein 1	Biological Replicate 1 Only	1
B2RD14	Stromal interaction molecule 1	Biological Replicate 1 Only	1
A0PJH5	Structural maintenance of chromosomes protein	Biological Replicate 1 Only	1
B4DVA0	Sulfate_transp domain-containing protein	Biological Replicate 1 Only	1
Q6IAA8	Synaptosomal-associated protein	Biological Replicate 1 Only	1
P26641-2	Syntaxin-binding protein 2	Biological Replicate 1 Only	1
			1
A8K9A5	TATA-binding protein-associated factor 2N 68)	Biological Replicate 1 Only	
J3QSS5	TBC1 domain family member 1	Biological Replicate 1 Only	1
P50213	T-complex protein 1 subunit delta	Biological Replicate 1 Only	1
E9PRZ9	T-complex protein 1 subunit gamma	Biological Replicate 1 Only	1
Q9Y520-7	T-complex protein 10A homolog 2	Biological Replicate 1 Only	1
Q14532	Tensin-2	Biological Replicate 1 Only	1
Q96BY7	Testicular secretory protein Li 53	Biological Replicate 1 Only	1
Q9Y5Q9	Testis anion transporter 1	Biological Replicate 1 Only	1
V9GYM8	Testis development-related protein	Biological Replicate 1 Only	1
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A0A024RBH0Tetraspanin-32BA8K3A8Thimet oligopeptidaseBQ9Y639TransaclolaseBS4R3N1Transcription elongation factor SPT5BF5H6T0Transcription factor GATA-4BP07437Translationally-controlled tumor proteinBQSBET0Tripartite motif-containing protein 72BQ9NPG3tRNA wybutosine-synthesizing protein 5wyosine-C)-hydroxylase)BP63261Tropomyosin 3 isoform 1BQ9P2P6Trubulin alpha-1 chainBA0A0222X644Tubulin alpha ChainBH0YK48Tubulin alpha ChainBA0A024R017Tubulin beta chainBA0A024R017Tubulin beta-4A chainBQ7Z3V9Ubinuclein-1B	iological Replicate 1 Only iological Replicate 1 Only	1 1 2 1 4 1 7 1 1 1 2 2
A8K3A8Thimet oligopeptidaseBQ9Y639TranscloloaseBQ9Y639Transcription leongation factor SPT5BS4R3N1Transcription factor GATA-4BP07437Transcription factor GATA-4BQ9NPG3Translationally-controlled tumor proteinBQ9NPG3tRNA wybutosine-synthesizing protein 5wyosine-C)-hydroxylase)BQ9NPG3tRNA wybutosine-synthesizing protein 5wyosine-C)-hydroxylase)BQ9NPG3tRNA wybutosine-synthesizing protein 5wyosine-C)-hydroxylase)BQ9P2P6Tropomyosin 3 isoform 1BQ9P2P6Tubulin alpha chainBA0A0S2Z4G4Tubulin alpha-3E chainBH0YK48Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A024R017Tubulin beta-4A chainBQ7Z3V9Ubinuclein-1B	iological Replicate 1 Only iological Replicate 1 Only	2 1 4 1 7 1 1 2
Q9Y639TransidolaseBS4R3N1Transcription elongation factor SPT5BF5H6T0Transcription factor GATA-4BP07437Translationally-controlled tumor proteinBQ59ET0Tripartite motif-containing protein 72BQ9NPG3tRNA wybutosine-synthesizing protein 5BQ14697-2Tropomyosin 3 isoform 1BQ14697-2Tropomyosin 3 isoform 1BQ9P2P6Tubulin alpha chainBP61604Tubulin alpha chainBH0YK48Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A024QY3Tubulin beta chainBA0A024QY3Ubinuclein-1BA0A024DY3Tubulin beta chainBA0A024DY3Tubulin beta chainBA0A024DY3Tubulin beta chainBA0A024DY3Tubulin beta chain	iological Replicate 1 Only iological Replicate 1 Only	2 1 4 1 7 1 1 2
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S4R3N1Transcription elongation factor SPT5BF5H6T0Transcription factor GATA-4BP07437Translationally-controlled tumor proteinBQ59ET0Tripartite motif-containing protein 72BQ9NPG3tRNA wybutosine-synthesizing protein 5wyosine-C)-hydroxylase)BP63261Tropomyosin 3 isoform 1BQ9P2P6Tropomyosin 3 isoform 1BP61604Tubulin alpha chainBA0A052Z4G4Tubulin alpha SE chainBH0YK48Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A0224JY3Tubulin beta chainBA0A0224JY3Tubulin beta chainBA0A0224JY3Tubulin beta chainBA0A0224JY3Tubulin beta chainBA0A024QY33Tubulin beta chainBA0A024QY34Tubulin beta chainBA0A024QY34Tubulin beta chainBA0A024QY34Tubulin beta chainBA0A024QY34Tubulin beta chainBA0A024QY34Tubulin beta chainBA0A024QY34Tubulin beta chainBA0A024DY54Ubinuclein-1B	iological Replicate 1 Only iological Replicate 1 Only	1 4 1 7 1 1 1 2
F5H6T0Transcription factor GATA-4BP07437Transcription factor GATA-4BP07437Translationally-controlled tumor proteinBQ59ET0Tripartite motif-containing protein 72BQ9NPG3tRNA wybutosine-synthesizing protein 5wyosine-C)-hydroxylase)BP63261Tropomyosin 3 isoform 1BQ9P2P6Tubulin alpha-1 chainBP61604Tubulin alpha chainBA0A0S2Z4G4Tubulin alpha-3E chainBH0YK48Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A024R017Tubulin beta-4A chainBQ7Z3V9Ubinuclein-1B	iological Replicate 1 Only iological Replicate 1 Only	1 4 1 7 1 1 1 2
P07437Translationally-controlled tumor proteinBQ59ET0Triparitie motif-containing protein 72BQ9NPG3tRNA wybutosine-synthesizing protein 5wyosine-C)-hydroxylase)BP63261Tropomyosin 3 isoform 1BQ14697-2Tropomyosin alpha-1 chainBQ9P2P6Tubulin alpha chainBP61604Tubulin alpha-3E chainBH0YK48Tubulin alpha-3E chainBA0A0224QYX3Tubulin beta chainBA0A024R017Tubulin beta chainBQ7Z3V9Ubinuclein-1B	iological Replicate 1 Only iological Replicate 1 Only	4 1 7 1 1 1 2
Q59ET0Tripartite motif-containing protein 72BQ9NPG3tRNA wybutosine-synthesizing protein 5wyosine-C)-hydroxylase)BP63261Tropomyosin 3 isoform 1BQ14697-2Tropomyosin alpha-1 chainBQ9P2P6Tubulin alpha chainBP61604Tubulin alpha chainBA0A0S2Z4G4Tubulin alpha-3E chainBH0YK48Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A0224J73Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A024QY34Tubulin beta chainBA0A024D	iological Replicate 1 Only iological Replicate 1 Only	1 1 7 1 1 1 2
Q9NPG3tRNA wybutosine-synthesizing protein 5 wyosine-C)-hydroxylase)BP63261Tropomyosin 3 isoform 1BQ14697-2Tropomyosin alpha-1 chainBQ9P2P6Tubulin alpha chainBP61604Tubulin alpha chainBA0A05224G4Tubulin alpha-3E chainBH0YK48Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A0224R017Tubulin beta-4A chainBQ723V9Ubinuclein-1B	iological Replicate 1 Only iological Replicate 1 Only	1 7 1 1 1 2
P63261Tropomyosin 3 isoform 1BQ14697-2Tropomyosin alpha-1 chainBQ9P2P6Tubulin alpha - thainBP61604Tubulin alpha chainBA0A0S2Z4G4Tubulin alpha - SE chainBH0YK48Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A024QYX3Tubulin beta chainBQ7Z3V9Ubinuclein-1B	iological Replicate 1 Only iological Replicate 1 Only	7 1 1 1 2
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Q9P2P6Tubulin alpha chainBiP61604Tubulin alpha chainBiA0A052Z4G4Tubulin alpha SE chainBiH0YK48Tubulin beta chainBiA0A024QYX3Tubulin beta chainBiA0A024QYX3Tubulin beta chainBiA0A024QYX3Tubulin beta chainBiA0A024QY34Tubulin beta chainBiA0A024QY34Tubulin beta chainBiA0A024QY34Tubulin beta chainBiA0A024QY34Tubulin beta chainBiA0A024QY34Tubulin beta chainBiA0A024QY34Ubinuclein-1Bi	iological Replicate 1 Only iological Replicate 1 Only iological Replicate 1 Only iological Replicate 1 Only iological Replicate 1 Only	1 1 2
P61604Tubulin alpha chainBiA0A0S2Z4G4Tubulin alpha-3E chainBiH0YK48Tubulin beta chainBiA0A024QYX3Tubulin beta chainBiA0A024R017Tubulin beta-4A chainBiQ7Z3V9Ubinuclein-1Bi	iological Replicate 1 Only iological Replicate 1 Only iological Replicate 1 Only iological Replicate 1 Only	1 2
A0A0S2Z4G4Tubulin alp ¹ a-3E chainBH0YK48Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A024R017Tubulin beta -AchainBQ7Z3V9Ubinuclein-1B	iological Replicate 1 Only iological Replicate 1 Only iological Replicate 1 Only	2
A0A0S2Z4G4Tubulin alp ¹ a-3E chainBH0YK48Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A024R017Tubulin beta -AchainBQ7Z3V9Ubinuclein-1B	iological Replicate 1 Only iological Replicate 1 Only iological Replicate 1 Only	=
H0YK48Tubulin beta chainBA0A024QYX3Tubulin beta chainBA0A024R017Tubulin beta chainBQ7Z3V9Ubinuclein-1B	iological Replicate 1 Only iological Replicate 1 Only	=
A0A024QYX3 Tubulin beta chain B A0A024R017 Tubulin beta-4A chain B Q7Z3V9 Ubinuclein-1 B	iological Replicate 1 Only	
A0A024R017 Tubulin beta-4A chain B Q7Z3V9 Ubinuclein-1 Bi		1
Q7Z3V9 Ubinuclein-1 Bi		1
		1
	iological Replicate 1 Only	1
B3KS98 Ubiquitin carboxyl-terminal hydrolase Bi	iological Replicate 1 Only	1
P52888 Ubiquitin carboxyl-terminal hydrolase Bi	iological Replicate 1 Only	1
Q13423 Ubiquitin carboxyl-terminal hydrolase 48 Bi	iological Replicate 1 Only	1
	iological Replicate 1 Only	1
	iological Replicate 1 Only	1
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	iological Replicate 1 Only	1
	iological Replicate 1 Only	1
	iological Replicate 1 Only	1
Q8IUE6 Vesicle-associated membrane protein-associated protein A B	iological Replicate 1 Only	1
A0A024R8E5 von Willebrand factor A domain-containing protein 3A Bi	iological Replicate 1 Only	1
	iological Replicate 1 Only	1
	iological Replicate 1 Only	2
	iological Replicate 1 Only	1
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	iological Replicate 1 Only	1
	iological Replicate 1 Only	1
	iological Replicate 1 Only	1
A8K9Y8 ZNF507 protein B	iological Replicate 1 Only	1
V5LDX0 14-3-3 protein gamma Bi	iological Replicate 2 Only	1
H7C0X8 39S ribosomal protein L37 Bi	iological Replicate 2 Only	1
	iological Replicate 2 Only	9
	iological Replicate 2 Only	ĩ
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	iological Replicate 2 Only	•
	iological Replicate 2 Only	1
	iological Replicate 2 Only	1
P07737 40S ribosomal protein S7 B	iological Replicate 2 Only	2
Q96BN8 4F2 cell-surface antigen heavy chain B	iological Replicate 2 Only	1
	iological Replicate 2 Only	2
	iological Replicate 2 Only	1
	iological Replicate 2 Only	1
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	iological Replicate 2 Only	1
	iological Replicate 2 Only	1
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Q16715 Adhesion G-protein coupled receptor G6 Bi	iological Replicate 2 Only	1
	iological Replicate 2 Only	1
	iological Replicate 2 Only	6
	iological Replicate 2 Only	1
	iological Replicate 2 Only	2
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	iological Replicate 2 Only	1
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	iological Replicate 2 Only	1
P10606 Arf-GAP with coiled-coil B	iological Replicate 2 Only	1
	iological Replicate 2 Only	1
	iological Replicate 2 Only	1
	iological Replicate 2 Only	1
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	iological Replicate 2 Only	1
	iological Replicate 2 Only	1
B4DJ09 Atrophin 1 Bi	iological Replicate 2 Only	1
Q6GPH4 Autophagy-related protein 13 B	iological Replicate 2 Only	1
	iological Replicate 2 Only	1
	iological Replicate 2 Only	1
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Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P11388-4	Bromodomain testis-specific protein	Biological Replicate 2 Only	1
B4E1C2	Caldesmon	Biological Replicate 2 Only	1
A0A140VJR0	Calmodulin-like protein 3	Biological Replicate 2 Only	1
Q9Y4B5	Calnexin	Biological Replicate 2 Only	1
P60709	Calnexin	Biological Replicate 2 Only	7
Q5JU67	cAMP-regulated phosphoprotein 19	Biological Replicate 2 Only	1
Q15027	Cancer-related regulator of actin dynamics	Biological Replicate 2 Only	1
Q12797	Carbohydrate sulfotransferase 15	Biological Replicate 2 Only	1
Q6UY18	Cardiomyopathy-associated protein 5	Biological Replicate 2 Only	1
E9PRY8	CD63 antigen	Biological Replicate 2 Only	2
P05198	CD99 antigen	Biological Replicate 2 Only	2
Q07812-5	Chromodomain-helicase-DNA-binding protein 4	Biological Replicate 2 Only	-
Q99623	Cilia- and flagella-associated protein 157	Biological Replicate 2 Only	1
A0A1W2PR46	Coatomer subunit beta	Biological Replicate 2 Only	1
P46777	Coatomer subunit beta	Biological Replicate 2 Only	1
Q9P2D8-3	Cofilin 2	Biological Replicate 2 Only	1
Q9P2D8-3 Q16891-2		Biological Replicate 2 Only Biological Replicate 2 Only	1
	Coiled-coil domain-containing protein 63		
A3RDR6	Collagen alpha-4 chain	Biological Replicate 2 Only	1
P42677	Copine-1	Biological Replicate 2 Only	1
Q12888-2	Coronin	Biological Replicate 2 Only	1
H0YL11	CST complex subunit STN1	Biological Replicate 2 Only	1
J3KPF0	Cytochrome c oxidase subunit 5B	Biological Replicate 2 Only	1
B4DYP4	Cytosolic carboxypeptidase 1	Biological Replicate 2 Only	1
Q8N3K9	DC30	Biological Replicate 2 Only	1
A0A087WYV2	DDB1- and CUL4-associated factor 15	Biological Replicate 2 Only	1
Q6ECI4	Diacylglycerol kinase eta	Biological Replicate 2 Only	1
D3DV26	Dihydropyrimidinase-related protein 3	Biological Replicate 2 Only	1
O95450	Dihydropyrimidine dehydrogenase	Biological Replicate 2 Only	1
A8K8X0	DNA replication ATP-dependent helicase/nuclease DNA2	Biological Replicate 2 Only	1
O43156	DNA topoisomerase 2-alpha	Biological Replicate 2 Only	1
P60660-2	DUF4205 domain-containing protein	Biological Replicate 2 Only	1
E9PQK5	Dynamin-like 120 kDa protein	Biological Replicate 2 Only	1
H0YBH6	E3 ubiguitin-protein ligase HERC2	Biological Replicate 2 Only	1
Q6Q759	E3 ubiquitin-protein ligase RNF213	Biological Replicate 2 Only	1
Q96M93	elF-2-alpha kinase GCN2	Biological Replicate 2 Only	1
Q6LES2	eIF4G1 variant protein	Biological Replicate 2 Only	1
P63220	Elongation factor 1-delta	Biological Replicate 2 Only	3
P27824-2	Endoplasmic reticulum resident protein 29	Biological Replicate 2 Only	2
P49321	Epididymis secretory protein Li 310	Biological Replicate 2 Only	1
Q14847	Epididymis secretory sperm binding protein	Biological Replicate 2 Only	1
Q15149-3	Epididymis secretory sperm binding protein	Biological Replicate 2 Only	2
P84550-2	Epididymis secretory sperm binding protein)	Biological Replicate 2 Only	1
O75143-5	Establishment of cohesion 1 homolog 1	Biological Replicate 2 Only	1
P23246	Eukaryotic translation initiation factor 2 subunit 1	Biological Replicate 2 Only	2
M0R0R2	Eukaryotic translation initiation factor 4H	Biological Replicate 2 Only	1
Q8IX03-2	FYVE and coiled-coil domain-containing protein 1	Biological Replicate 2 Only	1
O75382	Girdin	Biological Replicate 2 Only	1
P30040	Glial fibrillary acidic protein	Biological Replicate 2 Only	1
O95714	Golgin subfamily A member 4	Biological Replicate 2 Only	1
Q4LE58	Guanine nucleotide binding protein	Biological Replicate 2 Only	1
V9HWB8	Guanine nucleotide-binding protein G subunit alpha-1	Biological Replicate 2 Only	2
Q7LFX5	H.sapiens ras-related Hrab2 protein	Biological Replicate 2 Only	-
Q2QD09	Heat shock protein 94c	Biological Replicate 2 Only	1
P08195-4	HECT	Biological Replicate 2 Only	1
Q6ZU35	Hemicentin-2	Biological Replicate 2 Only	1
P36578		Biological Replicate 2 Only Biological Replicate 2 Only	1
	Heterogeneous nuclear ribonucleoprotein D		1
Q8WUM4-2	Heterogeneous nuclear ribonucleoprotein K transcript variant	Biological Replicate 2 Only	3
H0YHG0	Heterogeneous nuclear ribonucleoprotein R	Biological Replicate 2 Only	
Q13177	Histocompatibility 13 isoform 1	Biological Replicate 2 Only	1
Q01844-5	Histone H4	Biological Replicate 2 Only	1
Q8TCU6	HSPC269	Biological Replicate 2 Only	1
P35579-2	Ig-like domain-containing protein	Biological Replicate 2 Only	6
B2R761	Integrator complex subunit 10	Biological Replicate 2 Only	1
Q9UMS4	IQ and AAA domain-containing protein 1-like	Biological Replicate 2 Only	1
B3KN49	Isocitrate dehydrogenase	Biological Replicate 2 Only	1
B2R4R0	Jupiter microtubule associated homolog 2	Biological Replicate 2 Only	2
Q15056	Keratin	Biological Replicate 2 Only	- 1
Q9H910-3	Keratin	Biological Replicate 2 Only	1
Q86SQ4-3	Kinesin-like protein	Biological Replicate 2 Only	1
40004+0		Diological replicate 2 Only	•

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
S4R369	Kininogen 1	Biological Replicate 2 Only	1
B2R8Z8	Large proline-rich protein BAG6	Biological Replicate 2 Only	1
Q14197	Leucine-rich repeat a domain-containing nogo receptor-interacting protein 4	Biological Replicate 2 Only	1
P26038	LIM and SH3 domain protein 1	Biological Replicate 2 Only	3
P46379-3	LysinetRNA ligase	Biological Replicate 2 Only	1
Q13564-4	Macrophage-capping protein	Biological Replicate 2 Only	1
D6RIA3	Maltase-glucoamylase	Biological Replicate 2 Only	1
P02549	Mannosyl-oligosaccharide glucosidase	Biological Replicate 2 Only	1
Q562L9	MAP4 protein	Biological Replicate 2 Only	2
H3BMD8	Methylthioribose-1-phosphate isomerase	Biological Replicate 2 Only	2
			1
Q9H4A3-7	MHC class I antigen	Biological Replicate 2 Only	
Q8TBD0	MICOS complex subunit MIC60	Biological Replicate 2 Only	1
Q9H2M6	Microtubule cross-linking factor 1	Biological Replicate 2 Only	1
P61981	Microtubule-actin cross-linking factor 1	Biological Replicate 2 Only	2
Q9HBR0	Mitogen-activated protein kinase	Biological Replicate 2 Only	1
K7EJH8	Moesin	Biological Replicate 2 Only	1
Q8N0S2	mRNA decapping enzyme variant	Biological Replicate 2 Only	1
B4DS05	Myosin-9	Biological Replicate 2 Only	1
P05387	Myotrophin	Biological Replicate 2 Only	1
Q53G42	Na/H exchange regulatory cofactor NHE-RF1 /H exchanger)	Biological Replicate 2 Only	1
B4DH89	NADH dehydrogenase flavoprotein 3	Biological Replicate 2 Only	1
			1
Q5T3Y7	Nebulin-related-anchoring protein	Biological Replicate 2 Only	
Q1HBJ4	NEDD8-activating enzyme E1 regulatory subunit	Biological Replicate 2 Only	1
Q9BV20	Neural cell adhesion molecule 1	Biological Replicate 2 Only	1
Q6ICQ4	Neural cell adhesion molecule 1	Biological Replicate 2 Only	1
Q9BTW9-4	Ninein-like protein	Biological Replicate 2 Only	1
Q59HG2	NOD2	Biological Replicate 2 Only	1
P06733	Non-muscle myosin heavy chain 9	Biological Replicate 2 Only	1
A0A0S2Z500	NUAK family SNF1-like kinase 1	Biological Replicate 2 Only	1
Q53G74	Nuclear autoantigenic sperm protein	Biological Replicate 2 Only	1
Q6FG99	Nucleolin	Biological Replicate 2 Only	1
P63096	NUMA1 variant protein	Biological Replicate 2 Only	1
Q5QJ38	Optineurin isoform 1	Biological Replicate 2 Only	1
H0Y2S1	p37 AUF1	Biological Replicate 2 Only	1
A0A024R0H1	Peptidyl-prolyl cis-trans isomerase G	Biological Replicate 2 Only	1
P06727	Peptidyl-tRNA hydrolase ICT1	Biological Replicate 2 Only	1
P57721	Peroxiredoxin-1	Biological Replicate 2 Only	1
Q7Z595	Phosphatidylinositol 3	Biological Replicate 2 Only	1
Q86V38	Phosphodiesterase	Biological Replicate 2 Only	1
Q9P2K8	Phosphoglycerate mutase	Biological Replicate 2 Only	1
Q06830	Phosphoglycerate mutase	Biological Replicate 2 Only	1
Q13724	Phospholipid phosphatase-related protein type 3	Biological Replicate 2 Only	1
			1
Q9Y2G0	Photoreceptor cilium actin regulator	Biological Replicate 2 Only	1
A0A024R0R4	Plastin-3	Biological Replicate 2 Only	1
P62081	Plectin	Biological Replicate 2 Only	1
A6NEY3	Poly polymerase	Biological Replicate 2 Only	1
Q9P0B2	Poly-binding protein 3	Biological Replicate 2 Only	1
Q8NBX0	POU domain protein	Biological Replicate 2 Only	1
O43390	Pre-mRNA-processing factor 19	Biological Replicate 2 Only	1
B0YIW6	Probable ATP-dependent RNA helicase DDX6	Biological Replicate 2 Only	1
B6D4Y1	Probable E3 ubiquitin-protein ligase HECTD4	Biological Replicate 2 Only	1
Q13129	Probable helicase senataxin	Biological Replicate 2 Only	1
Q12YQ1	Probable phosphoglycerate mutase 4	Biological Replicate 2 Only	2
P08962	Profilin-1	Biological Replicate 2 Only	1
H0YAH0	Progesterone-induced-blocking factor 1	Biological Replicate 2 Only	1
A0A024R4A0	Programmed cell death 6-interacting protein	Biological Replicate 2 Only	2
A0A0S2Z410	Prohibitin-2	Biological Replicate 2 Only	1
A0A024R9W5	Proteasome endopeptidase complex	Biological Replicate 2 Only	1
P53618	Proteasome subunit alpha type-3	Biological Replicate 2 Only	1
Q6IAL9	Protein EFR3 homolog B	Biological Replicate 2 Only	1
Q5T6X2	Protein Hook homolog 3	Biological Replicate 2 Only	1
Q6NXE6	Protein KIBRA	Biological Replicate 2 Only	1
	Protein PML		1
O43776		Biological Replicate 2 Only	
	Protein unc-79 homolog	Biological Replicate 2 Only	1
Q969G3			
A8K725	Protocadherin-7	Biological Replicate 2 Only	1
A8K725 P56181	PTTG1 protein	Biological Replicate 2 Only	1
A8K725			1 1 1
A8K725 P56181	PTTG1 protein	Biological Replicate 2 Only	

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P29590-2	Putative uncharacterized protein BVES-AS1	Biological Replicate 2 Only	1
A0A0A0MR05	Pyridoxal kinase	Biological Replicate 2 Only	1
V9HW01	Pyruvate kinase	Biological Replicate 2 Only	1
O60285	Pyruvate kinase	Biological Replicate 2 Only	1
P25788	Rab GDP dissociation inhibitor	Biological Replicate 2 Only	1
	RANBP2-like and GRIP domain-containing protein 2	Biological Replicate 2 Only	1
Q99996-6			1
A8K7Z3	Ras-related protein R-Ras2	Biological Replicate 2 Only	1
B4E388	Retinal dehydrogenase 2	Biological Replicate 2 Only	1
P13797	Rhodopsin kinase GRK7	Biological Replicate 2 Only	1
P09493-7	Ribosomal protein L4 variant	Biological Replicate 2 Only	1
A0A024R084	RNA-binding protein EWS	Biological Replicate 2 Only	1
A4D1U3	RPLP1 protein	Biological Replicate 2 Only	1
Q9UK80	RPLP1 protein	Biological Replicate 2 Only	1
B0QZ18	S100 calcium binding protein A10	Biological Replicate 2 Only	1
Q3V6T2	Saccharopine dehydrogenase-like oxidoreductase	Biological Replicate 2 Only	1
B2R4P2	Serine/threonine-protein kinase PAK 2	Biological Replicate 2 Only	2
Q8NDA2	Serine/threonine-protein kinase WNK1	Biological Replicate 2 Only	-
Q86XP1	Sialic acid-binding Ig-like lectin 12	Biological Replicate 2 Only	1
B4DR52	Single-stranded DNA binding protein 1	Biological Replicate 2 Only	1
			1
O60313-10	SKI family transcriptional corepressor 1	Biological Replicate 2 Only	1
A0A0S2Z3X8	Small nuclear ribonucleoprotein E	Biological Replicate 2 Only	1
Q8WTQ7	Solute carrier family 16	Biological Replicate 2 Only	1
I3L457	Spectrin alpha chain	Biological Replicate 2 Only	1
Q12771	Sperm-associated antigen 17	Biological Replicate 2 Only	1
B3KT70	Splicing factor	Biological Replicate 2 Only	1
P27482	Staufen isoform b variant	Biological Replicate 2 Only	1
Q05682	Steroidogenic acute regulatory protein	Biological Replicate 2 Only	1
P58546	Stromal cell derived factor 4	Biological Replicate 2 Only	1
A0A1W2PNU4	Sulfotransferase	Biological Replicate 2 Only	1
A8K6R5	Sulfotransferase	Biological Replicate 2 Only	1
A0A024R8M0	SUMO-1 activating enzyme subunit 1	Biological Replicate 2 Only	1
Q86VF7-2	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily E member 1	Biological Replicate 2 Only	1
A2A3R6	Synaptonemal complex central element protein 1	Biological Replicate 2 Only	1
Q13427	Target of rapamycin complex subunit LST8	Biological Replicate 2 Only	1
P22105-4	TEK tyrosine kinase variant	Biological Replicate 2 Only	1
B7ZKJ5	TELO2-interacting protein 1 homolog	Biological Replicate 2 Only	1
			1
O43451	Tenascin-X	Biological Replicate 2 Only	1
Q66K64	Terminal nucleotidyltransferase 4A	Biological Replicate 2 Only	1
Q96PQ1	Testis-specific serine kinase substrate	Biological Replicate 2 Only	1
Q4LE64	TP53-binding protein 1	Biological Replicate 2 Only	1
A0A087WV75	TPM1 protein variant	Biological Replicate 2 Only	1
Q8NDG6	Transmembrane 7 superfamily member 3	Biological Replicate 2 Only	1
A0A087WWD4	Trichohyalin-like protein 1	Biological Replicate 2 Only	1
P14550	Triosephosphate isomerase	Biological Replicate 2 Only	1
A0A0X1KG68	Tripartite motif-containing protein 3	Biological Replicate 2 Only	1
P67936	Tropomyosin 1	Biological Replicate 2 Only	2
O94788	Tropomyosin alpha-1 chain	Biological Replicate 2 Only	1
Q6FHK8	Tropomyosin alpha-4 chain	Biological Replicate 2 Only	1
P13645	Tropomyosin beta chain	Biological Replicate 2 Only	1
Q6NX68	Tubulin alpha-1A chain	Biological Replicate 2 Only	2
Q81X07	Tubulin-specific chaperone D	Biological Replicate 2 Only	1
A6NGG8	Tyrosine-protein kinase receptor	Biological Replicate 2 Only	1
A0A024R3D8		Biological Replicate 2 Only	1
	Tyrosine-protein phosphatase non-receptor type		1
Q9BQS8-4	Ubiquitin carboxyl-terminal hydrolase 21	Biological Replicate 2 Only	1
Q8NA47	Ubiquitin thioesterase otulin	Biological Replicate 2 Only	
Q15046-2	Uncharacterized protein	Biological Replicate 2 Only	1
A8K4Z6	Uncharacterized protein C4orf54	Biological Replicate 2 Only	1
Q58F21-3	Uncharacterized protein C8orf86	Biological Replicate 2 Only	1
Q5EC54	Vacuolar protein sorting-associated protein 37B	Biological Replicate 2 Only	3
B4DLP0	Vacuolar-sorting protein SNF8	Biological Replicate 2 Only	1
A0A0S2Z5V7	XIAP-associated factor 1	Biological Replicate 2 Only	1
A8K3M3	ZFX protein	Biological Replicate 2 Only	1
O14745	Zinc finger protein 224	Biological Replicate 2 Only	1
Q12882	Zinc finger protein 470	Biological Replicate 2 Only	1
P53420	Zinc finger protein 831	Biological Replicate 2 Only	2
O00764	Zinc finger protein of r	Biological Replicate 2 Only	1
Q6T4P5-3	Zinc finger protein ZFPM1	Biological Replicate 2 Only	1
J3QRS3	14-3-3 protein beta/alpha	Both Biological Replicates	2
Q9Y3C6	26S proteasome regulatory subunit 7	Both Biological Replicates	2
491000		Dotti Diological Replicates	۷.

A0A0S2Z3L0 K7ELW9 B2RD79 Q562V5 Q9BUF5 P68366 O75396 A0A0G2JIW1 B1PS43 Q8NBS9 P07355-2 Q9UMX0 P54709 P42224 Q9UE89 P06753-6 P61160 P80723	ACLY variant protein ACTA2 protein Actina lapha 4 isoform 1 Actin-like protein Actin-like protein Actin-like protein Actin-related protein 2 Aldehyde dehydrogenase 1 family Alternative protein POTEM Annexin A1 Annexin A2 ATP synthase subunit beta ATP see Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase Beta-actin	Both Biological Replicates Both Biological Replicates	2 2 3 5 2 9 3 2 9 3 2 11 4
B2RD79 Q562V5 Q9BUF5 P68366 O75396 A0A0G2JIW1 B1PS43 Q8NBS9 P07355-2 Q9UMX0 P54709 P42224 Q9UE89 P06753-6 P61160 P80723	Actinin alpha 4 isoform 1 Actin-like protein Actin-like protein Actin-like protein Actin-like protein 2 Aldehyde dehydrogenase 1 family Alternative protein POTEM Annexin A1 Annexin A2 ATP synthase subunit beta ATPase Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase	Both Biological Replicates Both Biological Replicates	2 3 5 2 2 9 3 2 11
Q562V5 Q9BUF5 P68366 O75396 A0A0G2JIW1 B1PS43 Q8NBS9 P07355-2 Q9UMX0 P54709 P42224 Q9UE89 P06753-6 P61160 P80723	Actin-like protein Actin-like protein Actin-like protein Actin-related protein 2 Aldehyde dehydrogenase 1 family Alternative protein POTEM Annexin A1 Annexin A2 ATP synthase subunit beta ATPase Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase	Both Biological Replicates Both Biological Replicates	3 5 2 9 3 2 11
Q9BUF5 P68366 O75396 A0A0G2JIW1 B1P543 Q8NBS9 P07355-2 Q9UMX0 P54709 P42224 Q9UE89 P06753-6 P61160 P80723	Actin-like protein Actin-like protein Actin-like protein Actin-related protein 2 Aldehyde dehydrogenase 1 family Alternative protein POTEM Annexin A1 Annexin A2 ATP synthase subunit beta ATPase Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase	Both Biological Replicates Both Biological Replicates	5 2 9 3 2 11
Q9BUF5 P68366 O75396 A0A0G2JIW1 B1P543 Q8NBS9 P07355-2 Q9UMX0 P54709 P42224 Q9UE89 P06753-6 P61160 P80723	Actin-like protein Actin-like protein Actin-like protein 2 Aldehyde dehydrogenase 1 family Alternative protein POTEM Annexin A1 Annexin A2 ATP synthase subunit beta ATPase Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase	Both Biological Replicates Both Biological Replicates	5 2 9 3 2 11
P68366 O75396 A0A0G2JIW1 B1PS43 Q8NBS9 P07355-2 Q9UMX0 P54709 P42224 Q9UE89 P06753-6 P61160 P80723	Actin-like protein Actin-like protein 2 Aldehyde dehydrogenase 1 family Alternative protein POTEM Annexin A1 Annexin A2 ATP synthase subunit beta ATPase Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase	Both Biological Replicates Both Biological Replicates	2 2 9 3 2 11
O75396 A0A0G2JIW1 B1PS43 Q8NBS9 P07355-2 Q9UMX0 P54709 P42224 Q9UE89 P06753-6 P61160 P80723	Actin-related protein 2 Aldehyde dehydrogenase 1 family Alternative protein POTEM Annexin A1 Annexin A2 ATP synthase subunit beta ATPase Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase	Both Biological Replicates Both Biological Replicates Both Biological Replicates Both Biological Replicates Both Biological Replicates Both Biological Replicates Both Biological Replicates	2 9 3 2 11
A0A0G2JIW1 B1PS43 Q8NBS9 P07355-2 Q9UMX0 P54709 P42224 Q9UE89 P06753-6 P61160 P80723	Aldehyde dehydrogenase 1 family Alternative protein POTEM Annexin A1 Annexin A2 ATP synthase subunit beta ATPase Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase	Both Biological Replicates Both Biological Replicates Both Biological Replicates Both Biological Replicates Both Biological Replicates Both Biological Replicates	9 3 2 11
B1PS43 Q8NBS9 P07355-2 Q9UMX0 P54709 P42224 Q9UE89 P06753-6 P61160 P80723	Alternative protein POTEM Annexin A1 Annexin A2 ATP synthase subunit beta ATPase Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase	Both Biological Replicates Both Biological Replicates Both Biological Replicates Both Biological Replicates Both Biological Replicates	3 2 11
Q8NBS9 P07355-2 Q9UMX0 P54709 P42224 Q9UE89 P06753-6 P61160 P80723	Annexin A1 Annexin A2 ATP synthase subunit beta ATPase Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase	Both Biological Replicates Both Biological Replicates Both Biological Replicates Both Biological Replicates	2 11
P07355-2 Q9UMX0 P54709 P42224 Q9UE89 P06753-6 P61160 P80723	Annexin A2 ATP synthase subunit beta ATPase Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase	Both Biological Replicates Both Biological Replicates Both Biological Replicates	11
Q9UMX0 P54709 P42224 Q9UE89 P06753-6 P61160 P80723	ATP synthase subunit beta ATPase Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase	Both Biological Replicates Both Biological Replicates	
P54709 P42224 Q9UE89 P06753-6 P61160 P80723	ATPase Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase	Both Biological Replicates	4
P42224 Q9UE89 P06753-6 P61160 P80723	ATPase Ca++ transporting cardiac muscle slow twitch 2 isoform 1 ATPase		
P42224 Q9UE89 P06753-6 P61160 P80723	ATPase		2
Q9UE89 P06753-6 P61160 P80723		Both Biological Replicates	4
P06753-6 P61160 P80723	Deta-actin	Both Biological Replicates	2
P61160 P80723	Data activ like westain 0		
P80723	Beta-actin-like protein 2	Both Biological Replicates	2
	Bifunctional glutamate/prolinetRNA ligase	Both Biological Replicates	3
	Brain acid soluble protein 1	Both Biological Replicates	6
Q4LE36	Calcyclin-binding protein	Both Biological Replicates	7
E7EMB3	Calmodulin-2	Both Biological Replicates	2
D0PNI1	Calpain small subunit 1	Both Biological Replicates	3
B2R7U4	Calpastatin	Both Biological Replicates	3
B4DJQ5	Calponin-3	Both Biological Replicates	3
V9HW88	Calreticulin	Both Biological Replicates	5
P61978-3	Calumenin	Both Biological Replicates	5
A0A024R4K3	Caprin-1	Both Biological Replicates	3
Q96PH1	Cathepsin D	Both Biological Replicates	2
A0A024RC65	CDC37 cell division cycle 37 homolog	Both Biological Replicates	3
P35270	Centrin-2	Both Biological Replicates	2
A0A087WSV8	Chloride intracellular channel protein	Both Biological Replicates	2
P10599	Cilia- and flagella-associated protein 47	Both Biological Replicates	3
Q9UBS4	Cingulin	Both Biological Replicates	2
P18206	Clathrin heavy chain	Both Biological Replicates	6
Q00839	Cofilin-1	Both Biological Replicates	3
P31946	Coxsackievirus and adenovirus receptor	Both Biological Replicates	4
Q53Y06	Deleted.	Both Biological Replicates	3
O95551-2	DnaJ homolog subfamily B member 11	Both Biological Replicates	2
Q562R1	Drebrin	Both Biological Replicates	5
			5
P35527	Electron-transfer-flavoprotein alpha polypeptide isoform 1	Both Biological Replicates	
P13639	Elongation factor 2	Both Biological Replicates	5
H6VRG1	Epididymis luminal protein 33	Both Biological Replicates	2
V9HWP2	Epididymis luminal protein 35	Both Biological Replicates	7
Q13310-3	Epididymis luminal protein 4	Both Biological Replicates	2
V9HW37	Epididymis secretory protein Li 69	Both Biological Replicates	2
A0A024R3X4	Epididymis secretory sperm binding protein	Both Biological Replicates	6
V9HWB4	Epididymis secretory sperm binding protein Li 89n	Both Biological Replicates	16
E5KNY5	Fatty acid synthase	Both Biological Replicates	4
P02545	Filamin-A	Both Biological Replicates	3
Q14315	Filamin-C	Both Biological Replicates	6
P09382	Galectin-1	Both Biological Replicates	2
P04406	Glyceraldehyde-3-phosphate dehydrogenase	Both Biological Replicates	6
Q9HB71	Glypican-4	Both Biological Replicates	2
P0CG39	HCG1991735	Both Biological Replicates	2
P55072	Heat shock 70 kDa protein 1B	Both Biological Replicates	7
			2
J3KQA9	Heat shock 70 kDa protein 1-like	Both Biological Replicates	
P68371	Heat shock cognate 71 kDa protein	Both Biological Replicates	13
A0A024RD80	Heat shock protein 90kDa alpha	Both Biological Replicates	2
P04792	Heat shock protein beta-1	Both Biological Replicates	6
A0A140VJZ4	Heat shock protein HSP 90-alpha	Both Biological Replicates	3
B4DH02	Heme oxygenase	Both Biological Replicates	6
P28074	Heparan-alpha-glucosaminide N-acetyltransferase	Both Biological Replicates	2
P60174	Heterogeneous nuclear ribonucleoprotein K	Both Biological Replicates	2
Q15084-2	Heterogeneous nuclear ribonucleoprotein M	Both Biological Replicates	2
V9HW31	Heterogeneous nuclear ribonucleoprotein U	Both Biological Replicates	5
P22626	Heterogeneous nuclear ribonucleoproteins A2/B1	Both Biological Replicates	2
P25786-2	High-mobility group box 1	Both Biological Replicates	2
A8K3R2	Histone chaperone ASF1B	Both Biological Replicates	2
B4DVU9	Histone H2A type 2-B	Both Biological Replicates	5
P30041	Hypoxia up-regulated protein 1	Both Biological Replicates	3

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P49327	Integrin beta-1	Both Biological Replicates	4
A0A024R5H8	Keratin 1	Both Biological Replicates	2
P05556	Keratin	Both Biological Replicates	2
P78310	Keratin	Both Biological Replicates	2
B2RAH5	Leucine-rich PPR-motif containing	Both Biological Replicates	2
P41208	Malate dehydrogenase	Both Biological Replicates	4
P04350	Milate denyarogenase Microtubule-associated protein	Both Biological Replicates	7
P50990	Microtubule-associated protein 1B	Both Biological Replicates	4
			2
A0A140VKE7	Microtubule-associated tumor suppressor candidate 2	Both Biological Replicates	
Q9NS69	Mitochondrial import receptor subunit TOM22 homolog	Both Biological Replicates	2
E9PK54	Myosin heavy chain 11 smooth muscle isoform	Both Biological Replicates	4
J3KN67	Myosin regulatory light chain 12A	Both Biological Replicates	4
Q9BT73	Myosin regulatory light chain MRCL3 variant	Both Biological Replicates	2
Q562Z4	Myosin	Both Biological Replicates	2
P35580-4	Myosin-10	Both Biological Replicates	2
P34931	Nyosin-14	Both Biological Replicates	4
P07900-2	NADPH oxidase 5	Both Biological Replicates	3
E9PK25	Neuroblast differentiation-associated protein AHNAK	Both Biological Replicates	3
P35998	Nuclear transport factor 2	Both Biological Replicates	2
P06748	Nucleophosmin	Both Biological Replicates	2
A0A024RBB7			2 3
	Nucleosome assembly protein 1-like 1	Both Biological Replicates	-
Q9UMX0-2	Nucleosome assembly protein 1-like 1	Both Biological Replicates	4
A8K486	Peptidyl-prolyl cis-trans isomerase	Both Biological Replicates	3
P31948-2	Peptidyl-prolyl cis-trans isomerase FKBP10	Both Biological Replicates	2
A0A0C4DGQ5	Peptidyl-prolyl cis-trans isomerase-like 1	Both Biological Replicates	3
O43852-4	Peroxiredoxin-6	Both Biological Replicates	4
P46013	Phytanoyl-CoA 2-hydroxylase interacting protein-like	Both Biological Replicates	3
A0A024RBE6	Polyadenylate-binding protein 1 -binding protein 1)	Both Biological Replicates	2
Q15365	Polyadenylate-binding protein 4 -binding protein 4) -binding protein)	Both Biological Replicates	2
P11441	Poly-binding protein 1	Both Biological Replicates	2
Q15366-3	Poly-binding protein 2	Both Biological Replicates	2
B4DJ30	POTE ankyrin domain family member J	Both Biological Replicates	2
			2
P52272	Prelamin-A/C	Both Biological Replicates	
Q9Y4L1	Proliferation marker protein Ki-67	Both Biological Replicates	4
Q13707	Proteasome assembly chaperone 3	Both Biological Replicates	9
Q14444	Proteasome subunit alpha type-1	Both Biological Replicates	2
B5MCY1	Proteasome subunit beta type-5	Both Biological Replicates	2
A0A024R8S5	Protein disulfide-isomerase	Both Biological Replicates	8
A0A090N8Y2	Protein disulfide-isomerase A4	Both Biological Replicates	5
A0A087WVQ6	Protein disulfide-isomerase A6	Both Biological Replicates	2
Q6FIG4	Protein phosphatase 1 regulatory subunit	Both Biological Replicates	- 3
A0A024R7B7	Pyruvate dehydrogenase E1 component subunit beta	Both Biological Replicates	2
E7EVA0	RAB1B protein	Both Biological Replicates	5
			2
A0A0S2Z3L2	RAB6A	Both Biological Replicates	
A0A1S5UZ07	Ras-related protein Rab-5C	Both Biological Replicates	5
A0A024RAM4	RBBP7 protein	Both Biological Replicates	3
Q9NR12	Ribosome biogenesis protein BOP1	Both Biological Replicates	2
A0A140VJM0	Sepiapterin reductase	Both Biological Replicates	2
P21333	Signal transducer and activator of transcription 1-alpha/beta	Both Biological Replicates	9
O75487	Signal transducer and activator of transcription 3	Both Biological Replicates	2
Q15417	Small acidic protein	Both Biological Replicates	5
A0A024RDR0	Small nuclear ribonucleoprotein F	Both Biological Replicates	2
A0A0S2Z3G9	Sodium/potassium-transporting ATPase subunit beta-3	Both Biological Replicates	3
P40763	Spectrin beta chain	Both Biological Replicates	2
B9EK46			2
	Splicing factor 3B subunit 2	Both Biological Replicates	2 3
P38646	Stress-70 protein	Both Biological Replicates	
Q15819	Stress-induced-phosphoprotein 1	Both Biological Replicates	2
P20810-6	Talin-1	Both Biological Replicates	3
P07814	T-complex protein 1 subunit theta	Both Biological Replicates	4
V9HW83	Testicular tissue protein Li 96	Both Biological Replicates	3
Q13435	Testis tissue sperm-binding protein Li 64n	Both Biological Replicates	3
P07339	Thioredoxin	Both Biological Replicates	2
V9HW22	Thioredoxin domain-containing protein 5	Both Biological Replicates	6
P37802-2	TMSB4X protein	Both Biological Replicates	5
B2R8R5	Transgelin-2	Both Biological Replicates	4
			4 10
P05787-2	Transitional endoplasmic reticulum ATPase -ATPase p97 subunit)	Both Biological Replicates	10
F5H5D3	Triosephosphate isomerase	Both Biological Replicates	3
Q15836 Q43852-3	Tropomyosin alpha-3 chain Tropomyosin alpha-3 chain	Both Biological Replicates Both Biological Replicates	2 4

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q68CP4	Tubulin alpha chain	Both Biological Replicates	2
B3KUD3	Tubulin alpha-4A chain	Both Biological Replicates	8
Q13885	Tubulin beta-2A chain	Both Biological Replicates	13
Q13509	Tubulin beta-3 chain	Both Biological Replicates	5
P13010	Tubulin beta-4A chain	Both Biological Replicates	2
P09493-8	Tubulin beta-4B chain	Both Biological Replicates	2
Q9UHD9	Tubulin beta-6 chain	Both Biological Replicates	2
A0A024QZK4	Tudor domain-containing protein 15	Both Biological Replicates	2
P51148-2	Tumor protein D54	Both Biological Replicates	2
B2R7P8	Tyrosyl-DNA phosphodiesterase 2	Both Biological Replicates	2
Q7Z406-2	Ubiquilin-1	Both Biological Replicates	2
Q53HL1	Ubiquilin-2	Both Biological Replicates	4
A0A024R6Y2	Ubiquitin carboxyl-terminal hydrolase	Both Biological Replicates	2
P04083	Ubiquitin carboxyl-terminal hydrolase	Both Biological Replicates	2
B2R6J2	Ubiquitin-conjugating enzyme E2 variant 2	Both Biological Replicates	2
P11177	Ubiquitin-like protein 4A	Both Biological Replicates	3
A8K7F6	Vesicle-associated membrane protein 3	Both Biological Replicates	3
Q96AY3	Vesicle-trafficking protein SEC22b	Both Biological Replicates	3
P08670	Vimentin	Both Biological Replicates	13
Q0P5N8	Vinculin	Both Biological Replicates	2
O00193	X-ray repair cross-complementing protein 5	Both Biological Replicates	2
P67809	Y-box-binding protein 1	Both Biological Replicates	3

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q9NRX4	14 kDa phosphohistidine phosphatase	Biological Replicate 1 Only	1
P31946	14-3-3 protein beta/alpha	Biological Replicate 2 Only	2
P62258	14-3-3 protein epsilon	Biological Replicate 2 Only	1
P61981	14-3-3 protein gamma	Biological Replicate 2 Only	1
P27348	14-3-3 protein theta	Both Biological Replicates	2
P63104	14-3-3 protein zeta/delta	Both Biological Replicates	2
P00973	2'-5'-oligoadenylate synthase 1	Biological Replicate 2 Only	1
P35998	26S proteasome regulatory subunit 7	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
P62269	40S ribosomal protein S18	Biological Replicate 2 Only	2
P62854	40S ribosomal protein S26	Biological Replicate 2 Only	1
P42677	40S ribosomal protein S27	Biological Replicate 2 Only	1
P62753	40S ribosomal protein S6	Biological Replicate 2 Only	1
P10809	60 kDa heat shock protein, mitochondrial	Biological Replicate 2 Only	3
P26373	60S ribosomal protein L13	Biological Replicate 2 Only	1
P83731	60S ribosomal protein L24	Biological Replicate 2 Only	1
P62917	60S ribosomal protein L24	Both Biological Replicates	2
P62917 P68032	Actin, alpha cardiac muscle 1	Both Biological Replicates	2 7
			7
P68032	Actin, alpha cardiac muscle 1	Both Biological Replicates	
P60709	Actin, cytoplasmic 1	Both Biological Replicates	14
Q53H12	Acylglycerol kinase, mitochondrial	Biological Replicate 2 Only	1
095622	Adenylate cyclase type 5	Biological Replicate 1 Only	1
Q13023	A-kinase anchor protein 6	Biological Replicate 1 Only	1
Q5JTZ9	AlaninetRNA ligase, mitochondrial	Biological Replicate 1 Only	1
P06733	Alpha-enolase	Both Biological Replicates	4
Q9UJX4	Anaphase-promoting complex subunit 5	Biological Replicate 1 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
P05089	Arginase-1	Biological Replicate 2 Only	1
P25705	ATP synthase subunit alpha, mitochondrial	Both Biological Replicates	3
P06576	ATP synthase subunit beta, mitochondrial	Biological Replicate 2 Only	3
Q8WXE1	ATR-interacting protein	Biological Replicate 2 Only	1
Q9P281	BAH and coiled-coil domain-containing protein 1	Biological Replicate 2 Only	1
P35613	Basigin	Both Biological Replicates	2
Q562R1	Beta-actin-like protein 2	Both Biological Replicates	4
Q6PJG6	BRCA1-associated ATM activator 1	Biological Replicate 1 Only	1
Q9ULD4	Bromodomain and PHD finger-containing protein 3	Biological Replicate 1 Only	1
Q8NCU7	C2 calcium-dependent domain-containing protein 4A	Biological Replicate 1 Only	1
P55285	C2 Calcium-dependent domain-containing protein 4A	Biological Replicate 1 Only	1
Q12791	Calcium-activated potassium channel subunit alpha-1	Biological Replicate 1 Only	1
Q9P1Z2	Calcium-binding and coiled-coil domain-containing protein 1	Biological Replicate 2 Only	1
			1
Q96JQ2	Calmin	Biological Replicate 1 Only	
P27797	Calreticulin	Both Biological Replicates	3
Q6ZU35	Cancer-related regulator of actin dynamics	Biological Replicate 1 Only	1
Q8TBY9	Cilia- and flagella-associated protein 251	Biological Replicate 1 Only	1
P08709	Coagulation factor VII	Biological Replicate 2 Only	1
P53618	Coatomer subunit beta	Biological Replicate 1 Only	1
Q8TD31	Coiled-coil alpha-helical rod protein 1	Biological Replicate 1 Only	1
Q17RW2	Collagen alpha-1	Biological Replicate 1 Only	1
Q07021	Complement component 1 Q subcomponent-binding protein, mitochondrial	Both Biological Replicates	4
Q9BXR6	Complement factor H-related protein 5	Biological Replicate 1 Only	1
Q9C0A0	Contactin-associated protein-like 4	Biological Replicate 2 Only	1
O75367	Core histone macro-H2A.1	Biological Replicate 1 Only	1
075367	Core histone macro-H2A.1	Biological Replicate 2 Only	1
	Core histone macro-H2A.2	Biological Replicate 1 Only	1
Q9P0M6			

Table S2. IC-FPOP oxidatively modified proteins in HEK Cells.

QNNQW8Cyclic nucleotide-gated cation channel beta-3Biological Replicate 2 OnlyQNNEU8DCC-interacting protein 13-betaBiological Replicate 2 OnlyQNNEU8Declicator of cytokinesis protein 5Biological Replicate 2 OnlyQNNEU8Diardydyscrot kinase zataBiological Replicate 1 OnlyQN1217Diardydyscrot kinase zataBiological Replicate 1 OnlyQN1217Diardydyscrot kinase zataBiological Replicate 1 OnlyQN1217DiArdydyscrot kinase zataBiological Replicate 1 OnlyQN1218DNA repair and recombination protein RAD51-kine Biological Replicate 2 OnlyBiological Replicate 2 OnlyQN12315DNA repair protein RAD51-kine Biological Replicate 2 OnlyBiological Replicate 2 OnlyQN12315DNA repair and recombinesing factor MCM3Biological Replicate 2 OnlyQN1245DNA replication licensing factor MCM3Biological Replicate 2 OnlyQN1245DNA replication licensing factor MCM3Biological Replicate 2 OnlyQN1245Dynein heavy chain 5, axonemalBiological Replicate 2 OnlyQN1245Dynein heavy chain 5, axonemalBiological Replicate 1 OnlyQN1245Dynein heavy chain 5, axonemalBiological Replicate 2 OnlyQN1245Dynein heavy chain 5, axonemalBiological Replicate 2 OnlyQN1245Dynein heavy chain 5, axonemalBiological Replicate 2 OnlyQN1245Biological Replicate 2 OnlyDynein heavy chain 5, axonemalQN1245Biological Replicate 2 OnlyDynein heavy chain 5, axonemalQN1245Biological Replicate 2 Only <td< th=""><th>odified Peptides</th></td<>	odified Peptides
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QQ2127Dihydroördite derytorgenaseBiological Replicate 2 OnlyQ57890DNA eccision repair protein FROCF-like 2Biological Replicate 2 OnlyQ49917DNA ligase 4Biological Replicate 2 OnlyQ52698DNA repair ontoin EADCF-like 2Biological Replicate 2 OnlyQ52505DNA repair ontoin Econsing factor MCM3Biological Replicate 2 OnlyQ14566DNA replication Econsing factor MCM3Biological Replicate 2 OnlyQ14566DNA replication Econsing factor MCM3Biological Replicate 2 OnlyQ0VDD8DNA-binding protein RFX5Biological Replicate 2 OnlyQ0VDD8Dynein heavy chain 1, axonemalBiological Replicate 2 OnlyQ8WX00Dynein heavy chain 7, axonemalBiological Replicate 2 OnlyQ8WX00Dynein heavy chain 7, axonemalBiological Replicate 2 OnlyQ6WX00Dynein heavy chain 7, axonemalBiological Replicate 2 OnlyQ6WX00DysterlinBiological Replicate 2 OnlyQ795923DysterlinBiological Replicate 2 OnlyQ14058Econculeotide pyrophosphatase/phosphatage 2 BonlyBiological Replicate 2 OnlyQ140584Econculeotide pyrophosphatase/ph	1
QGT800DNA igase ABiological Replicate 2 onlyP49917DNA igase ABiological Replicate 2 onlyQG2688DNA repair and recombination protein RAD54 likeBiological Replicate 2 onlyQG150515DNA replication licensing factor MCM3Biological Replicate 2 onlyQG14666DNA replication licensing factor MCM3Biological Replicate 2 onlyQG14666DNA replication licensing factor MCM3Biological Replicate 2 onlyQOVDD8DNA topication licensing factor MCM6Biological Replicate 2 onlyQOVDD8Dynein heavy chain 1, axonemalBiological Replicate 2 onlyQGETE73Dynein heavy chain 1, axonemalBiological Replicate 1 onlyQG6U31Dynein heavy chain 3, axonemalBiological Replicate 2 onlyQG6U31Dynein heavy chain 3, axonemalBiological Replicate 2 onlyQG523Subiquith-protein ligase MdIne-1Biological Replicate 2 onlyQG4033Ectonucleotide provohosphates/hosphodiesterase family member 3Biological Replicate 2 onlyQG40433Ectonucleotide provohosphates/hosphodiesterase family member 3Biological Replicate 2 onlyQG40433Ectonucleotide provohosphates/hosphodiesterase family member 3Biological Replicate 2 onlyQG40433Ectonucleotide provohosphates/hosphodiesterase family member 3Biological Replicate 2 onlyQG4143	
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092698DNA repair and recombination protein RADS1-kikeBiological Replicate 2 Only015315DNA replication licensing factor MCM3Biological Replicate 2 Only014566DNA replication licensing factor MCM3Biological Replicate 2 Only014566DNA replication licensing factor MCM3Biological Replicate 2 Only014567DNA topication licensing factor MCM6Biological Replicate 2 Only014573DNA topication RFX5Biological Replicate 1 Only020VDD8Dynein heavy chain 7, axonemalBiological Replicate 1 Only030581Dynein heavy chain 7, axonemalBiological Replicate 1 Only0405923Dynein heavy chain 7, axonemalBiological Replicate 1 Only040581Dynein heavy chain 7, axonemalBiological Replicate 2 Only0405923DyferinBiological Replicate 2 Only041534Edonucleotide prophosphatase/phosphodiesterase family member 3Biological Replicate 2 Only041638Edonucleotide prophosphatase/phosphodiesterase family member 3Biological Replicate 2 Only041638Edonucleotide prophosphatase/phosphodiesterase family member 3Biological Replicate 2 Only0416458Edonucleotide prophosphatase/phosphodiesterase family member 3Biological Replicate 2 Only0416458	1
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O15315DNA repair protein RAD51 homolog 2Biological Replicate 2 OnlyP25205DNA replication licensing factor MCM3Biological Replicate 2 OnlyO14566DNA topoisomerase 1Both Biological Replicates 2 OnlyP4382DNA-binding protein RFX5Biological Replicates 1 OnlyQOVDD8Dynein heavy chain 14, axonemalBiological Replicates 1 OnlyQOVD08Dynein heavy chain 5, axonemalBiological Replicate 2 OnlyQBVXX00Dynein heavy chain 6, axonemalBiological Replicate 1 OnlyQBVXX01Dynein heavy chain 7, axonemalBiological Replicate 1 OnlyQBVX02Dynein heavy chain 8, axonemalBiological Replicate 1 OnlyQBVX03Dynein heavy chain 8, axonemalBiological Replicate 2 OnlyQBVX04Est uliquitin-protein ligase RBLBiological Replicate 2 OnlyQBVX05Dynein heavy chain 8, axonemalBiological Replicate 2 OnlyQBVX04Est uliquitin-protein ligase RBLBiological Replicate 2 OnlyQBVX05Dynein heavy chain 8, axonemalBiological Replicate 2 OnlyQBVX05Est uliquitin-protein ligase RBLBiological Replicate 2 OnlyQBVX06Est uliquitin-protein ligase RBLBiological Replicate 2 OnlyQBVEEst uliquitin-protein subunit alpha, nutcohondrialBiological Replicate 1 OnlyQBVX06Est uliquitin-protein subunit alpha, nutcohondrialBiological Replicate 1 OnlyQBVR01Endogenous retrovirus group K member 19 Gag polyproteinBiological Replicate 1 OnlyQBVX03Endogenous retrovirus group K member 19 Gag polyprotein <td>1</td>	1
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P09104 Gamma-enolase Biological Replicate 1 Only	1
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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 Both Biological Replicates	5
Q3T8J9 GON-4-like protein Biological Replicate 1 Only	1
Q8TBN0 Guanine nucleotide exchange factor for Rab-3A Biological Replicate 1 Only	1
P0DMV9 Heat shock 70 kDa protein 1B Both Biological Replicates	3
PODMV9 Heat shock 70 kDa protein 1B Both Biological Replicates	3
P34931 Heat shock 70 kDa protein 1-like Both Biological Replicates	3
P34932 Heat shock 70 kDa protein 4 Biological Replicates	1
P17066 Heat shock 70 kDa protein 4 Biological Replicate FOlly	3
	2
5 1 5 1 - 5	
Q12931 Heat shock protein 75 kDa, mitochondrial Biological Replicate 2 Only	1
P07900 Heat shock protein HSP 90-alpha Both Biological Replicates	4
P08238 Heat shock protein HSP 90-beta Both Biological Replicates	3
P08238 Heat shock protein HSP 90-beta Both Biological Replicates	3

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P54652	Heat shock-related 70 kDa protein 2	Biological Replicate 1 Only	1
Q9UM44	HERV-H LTR-associating protein 2	Biological Replicate 1 Only	1
P09651	Heterogeneous nuclear ribonucleoprotein A1	Biological Replicate 2 Only	1
P61978	Heterogeneous nuclear ribonucleoprotein K	Biological Replicate 2 Only	2
P52272	Heterogeneous nuclear ribonucleoprotein M	Both Biological Replicates	2
Q00839	Heterogeneous nuclear ribonucleoprotein U	Biological Replicate 2 Only	1
P22626	Heterogeneous nuclear ribonucleoproteins A2/B1	Both Biological Replicates	3
P07910	Heterogeneous nuclear ribonucleoproteins C1/C2	Biological Replicate 2 Only	1
Q93077	Histone H2A type 1-C	Both Biological Replicates	2
Q6FI13	Histone H2A type 2-A	Biological Replicate 1 Only	1
P0C0S5	Histone H2A.Z	Both Biological Replicates	2
P16104	Histone H2AX	Biological Replicate 2 Only	1
O60814	Histone H2B type 1-K	Both Biological Replicates	2
P68431	Histone H3.1	Biological Replicate 1 Only	1
P68431	Histone H3.1	Biological Replicate 2 Only	1
Q16695	Histone H3.1t	Biological Replicate 1 Only	1
Q16695	Historie H3.1t	Biological Replicate 2 Only	1
Q71DI3	Historie H3.2	Biological Replicate 2 Only	1
Q71DI3	Historie H3.2	Both Biological Replicates	3
P84243	Histone H3.3	Biological Replicate 2 Only	1
P62805	Historie H3.5	Both Biological Replicates	7
Q16576	Histone-binding protein RBBP7	Biological Replicate 2 Only	1
096028	Histone-lysine N-methyltransferase NSD2	Biological Replicate 2 Only	1
P42858	Huntingtin	Biological Replicate 2 Only	1
			1
Q8TEX9	Importin-4	Biological Replicate 1 Only	1
015327	Inositol polyphosphate 4-phosphatase type II	Biological Replicate 1 Only	1
Q9UL03	Integrator complex subunit 6	Biological Replicate 1 Only	1
P48551	Interferon alpha/beta receptor 2	Biological Replicate 1 Only	1
Q5VZ66	Janus kinase and microtubule-interacting protein 3	Biological Replicate 1 Only	1
Q2WGJ6	Kelch-like protein 38	Biological Replicate 1 Only	1
P13645	Keratin, type I cytoskeletal 10	Both Biological Replicates	5
P08779	Keratin, type I cytoskeletal 16	Biological Replicate 1 Only	1
P35527	Keratin, type I cytoskeletal 9	Both Biological Replicates	7
P04264	Keratin, type II cytoskeletal 1	Both Biological Replicates	5
P35908	Keratin, type II cytoskeletal 2 epidermal	Biological Replicate 1 Only	4
P13647	Keratin, type II cytoskeletal 5	Biological Replicate 1 Only	1
P04259	Keratin, type II cytoskeletal 6B	Biological Replicate 1 Only	1
Q9H9P8	L-2-hydroxyglutarate dehydrogenase, mitochondrial	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
Q14767	Latent-transforming growth factor beta-binding protein 2	Biological Replicate 2 Only	1
Q9HCC9	Lateral signaling target protein 2 homolog	Biological Replicate 2 Only	1
A6NIV6	Leucine-rich repeat and IQ domain-containing protein 4	Biological Replicate 1 Only	1
Q05C16	Leucine-rich repeat-containing protein 63	Biological Replicate 2 Only	1
P07195	L-lactate dehydrogenase B chain	Biological Replicate 2 Only	1
P36776	Lon protease homolog, mitochondrial	Biological Replicate 1 Only	1
O95232	Luc7-like protein 3	Biological Replicate 1 Only	1
Q9Y4C1	Lysine-specific demethylase 3A	Biological Replicate 2 Only	1
Q6B0I6	Lysine-specific demethylase 4D	Both Biological Replicates	2
Q8NDA8	Maestro heat-like repeat-containing protein family member 1	Biological Replicate 1 Only	1
A6NGR9	Maestro heat-like repeat-containing protein family member 6	Biological Replicate 2 Only	1
P55145	Mesencephalic astrocyte-derived neurotrophic factor	Biological Replicate 1 Only	1
Q86V40	Metalloprotease TIKI1	Biological Replicate 1 Only	1
Q16891	MICOS complex subunit MIC60	Biological Replicate 1 Only	1
Q8N4C8	Misshapen-like kinase 1	Biological Replicate 2 Only	1
Q9NS69	Mitochondrial import receptor subunit TOM22 homolog	Both Biological Replicates	2
Q9P2K5	Myelin expression factor 2	Biological Replicate 2 Only	- 1
Q9NZM1	Myoferlin	Biological Replicate 2 Only	1
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Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
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	Both Biological Replicates	2
O95299	NADH dehydrogenase [ubiguinone] 1 alpha subcomplex subunit 10, mitochondrial	Biological Replicate 1 Only	1
P28331	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial	Biological Replicate 1 Only	1
Q8NFA2	NADPH oxidase organizer 1	Biological Replicate 2 Only	1
Q8NFP9	Neurobeachin	Biological Replicate 1 Only	1
P07196	Neurofilament light polypeptide	Biological Replicate 2 Only	2
P07197	Neurofilament medium polypeptide	Biological Replicate 1 Only	1
Q15758	Neutral amino acid transporter B	Biological Replicate 2 Only	1
Q7Z2Y5	Nik-related protein kinase	Biological Replicate 2 Only	1
Q15233	Non-POU domain-containing octamer-binding protein	Both Biological Replicates	3
Q14980	Nuclear mitotic apparatus protein 1	Biological Replicate 2 Only	1
P19338	Nucleolin	Both Biological Replicates	2
			2
P15531	Nucleoside diphosphate kinase A	Both Biological Replicates	2
P22392	Nucleoside diphosphate kinase B	Biological Replicate 2 Only	•
Q5VST9	Obscurin	Biological Replicate 2 Only	1
Q96KK4	Olfactory receptor 10C1	Biological Replicate 2 Only	1
Q9NZT2	Opioid growth factor receptor	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
Q9NX31	Oxidative stress-responsive serine-rich protein 1	Biological Replicate 2 Only	1
Q8IUH4	Palmitoyltransferase ZDHHC13	Biological Replicate 1 Only	1
Q8IUH5	Palmitoyltransferase ZDHHC17	Biological Replicate 2 Only	1
A0A0J9YXQ4	Paraneoplastic antigen Ma6E	Biological Replicate 1 Only	1
O00151	PDZ and LIM domain protein 1	Biological Replicate 2 Only	1
Q96AY3	Peptidyl-prolyl cis-trans isomerase FKBP10	Both Biological Replicates	2
P41219	Peripherin	Both Biological Replicates	2
Q06830	Peroxiredoxin-1	Both Biological Replicates	2
Q9NRQ2	Phospholipid scramblase 4	Biological Replicate 1 Only	1
Q8NB49	Phospholipid-transporting ATPase IG	Biological Replicate 1 Only	1
O15067	Phosphoribosylformylglycinamidine synthase	Biological Replicate 2 Only	1
Q7Z3H0	Photoreceptor ankyrin repeat protein	Biological Replicate 2 Only	1
Q8NC51	Plasminogen activator inhibitor 1 RNA-binding protein	Both Biological Replicates	3
Q15198	Platelet-derived growth factor receptor-like protein	Biological Replicate 2 Only	1
Q15149	Plectin	Biological Replicate 2 Only	1
Q8IUK5	Plexin domain-containing protein 1	Biological Replicate 2 Only	1
Q15365	Poly (rC)-binding protein 1	Biological Replicate 1 Only	1
Q15365	Poly(rC)binding protein 1	Both Biological Replicates	2
Q15365 Q15366	Poly(rC)binding protein 1		2
		Both Biological Replicates	2
Q8TBY8	Polyamine-modulated factor 1-binding protein 1	Biological Replicate 2 Only	-
P0CG47	Polyubiquitin-B [Cleaved into: Ubiquitin]	Biological Replicate 2 Only	1
P54707	Potassium-transporting ATPase alpha chain 2	Both Biological Replicates	2
Q13029	PR domain zinc finger protein 2	Biological Replicate 1 Only	1
Q7L3T8	Probable prolinetRNA ligase, mitochondrial	Biological Replicate 1 Only	1
P07737	Profilin-1	Biological Replicate 2 Only	1
Q9UQ80	Proliferation-associated protein 2G4	Biological Replicate 2 Only	1
Q14914	Prostaglandin reductase 1	Biological Replicate 1 Only	1
P28066	Proteasome subunit alpha type-5	Biological Replicate 1 Only	1
P07237	Protein disulfide-isomerase	Both Biological Replicates	2
P30101	Protein disulfide-isomerase A3	Biological Replicate 2 Only	1
P13667	Protein disulfide-isomerase A4	Biological Replicate 2 Only	1
O95905	Protein ecdysoneless homolog	Biological Replicate 2 Only	1
P49257	Protein ERGIC-53	Biological Replicate 1 Only	1
A8MVW0	Protein FAM171A2	Biological Replicate 1 Only	1
A2RU67	Protein FAM234B	Both Biological Replicates	2
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Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P61244	Protein max	Biological Replicate 1 Only	1
Q6ZRQ5	Protein MMS22-like	Biological Replicate 2 Only	1
Q460N3	Protein mono-ADP-ribosyltransferase PARP15	Biological Replicate 1 Only	1
Q96FB5	Protein RRNAD1	Biological Replicate 2 Only	1
Q14160	Protein scribble homolog	Biological Replicate 1 Only	1
P49221	Protein-glutamine gamma-glutamyltransferase 4	Both Biological Replicates	2
Q58FG1	Putative heat shock protein HSP 90-alpha A4	Biological Replicate 1 Only	1
Q58FG1	Putative heat shock protein HSP 90-alpha A4	Biological Replicate 2 Only	1
Q6DN03	Putative histone H2B type 2-C	Biological Replicate 2 Only	1
Q495Z4	Putative uncharacterized protein ASB16-AS1	Biological Replicate 1 Only	1
Q6ZRU5	Putative uncharacterized protein FLJ46089	Biological Replicate 1 Only	1
Q4ADV7	RAB6A-GEF complex partner protein 1	Biological Replicate 2 Only	1
Q9UHP6	Radial spoke head 14 homolog	Biological Replicate 2 Only	1
Q13576	Ras GTPase-activating-like protein IQGAP2	Biological Replicate 1 Only	1
Q86VI3	Ras GTPase-activating-like protein IQGAP3	Biological Replicate 1 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
Q8TDY2	RB1-inducible coiled-coil protein 1	Biological Replicate 2 Only	1
Q9Y5S9	RNA-binding protein 8A	Both Biological Replicates	2
P35637	RNA-binding protein FUS	Both Biological Replicates	2
Q92736	Ryanodine receptor 2	Both Biological Replicates	3
Q15413	Ryanodine receptor 3	Biological Replicate 1 Only	1
Q15413	Ryanodine receptor 3	Both Biological Replicates	2
Q8NBX0			2
	Saccharopine dehydrogenase-like oxidoreductase	Biological Replicate 2 Only	1
O43865	S-adenosylhomocysteine hydrolase-like protein 1	Biological Replicate 1 Only	1
Q5VUG0	Scm-like with four MBT domains protein 2	Biological Replicate 2 Only	1
Q6UWB4	Serine protease 55	Biological Replicate 1 Only	1
Q8IWQ3	Serine/threonine-protein kinase BRSK2	Biological Replicate 1 Only	1
Q9Y5S2	Serine/threonine-protein kinase MRCK beta	Biological Replicate 1 Only	1
Q8TD19	Serine/threonine-protein kinase Nek9	Biological Replicate 2 Only	1
Q9H4A3	Serine/threonine-protein kinase WNK1	Biological Replicate 1 Only	1
P11831	Serum response factor	Biological Replicate 1 Only	1
P09132	Signal recognition particle 19 kDa protein	Biological Replicate 2 Only	1
P62306	Small nuclear ribonucleoprotein F	Biological Replicate 1 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 Replicate 1 Only	1
P23246	Splicing factor, proline- and glutamine-rich	Both Biological Replicates	2
A6NHR9	Structural maintenance of chromosomes flexible hinge domain-containing protein 1	Biological Replicate 1 Only	1
O95347	Structural maintenance of chromosomes protein 2	Biological Replicate 1 Only	1
Q16623	Syntaxin-1A	Biological Replicate 2 Only	1
Q13148	TAR DNA-binding protein 43	Biological Replicate 2 Only	1
Q96DN5	TBC1 domain family member 31	Biological Replicate 1 Only	1
O95759	TBC1 domain family member 8	Biological Replicate 1 Only	1
P40227	T-complex protein 1 subunit zeta	Biological Replicate 1 Only	1
Q2MV58	Tectonic-1	Biological Replicate 1 Only	1
Q6NT89	TMF-regulated nuclear protein 1	Biological Replicate 1 Only	1
Q13263	Transcription intermediary factor 1-beta	Biological Replicate 2 Only	1
P46100	Transcriptional regulator ATRX	Both Biological Replicates	2
P62995	Transformer-2 protein homolog beta	Biological Replicate 1 Only	1
P37802	Transgelin-2	Biological Replicate 1 Only	1
P55072	Transitional endoplasmic reticulum ATPase	Biological Replicate 2 Only	1
P57088	Transmembrane protein 33	Biological Replicate 1 Only	1
Q9NUR3	Transmembrane protein 74B	Biological Replicate 1 Only	1
A6NGJ6	Tripartite motif-containing protein 64	Biological Replicate 2 Only	1
Q9Y3I0	tRNA-splicing ligase RtcB homolog	Biological Replicate 2 Only	1
P07478	Trypsin-2	Both Biological Replicates	2
P68363	Tubulin alpha-1B chain	Biological Replicate 2 Only	_ 1
Q9BQE3	Tubulin alpha-1C chain	Biological Replicate 2 Only	1
		3	·

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P68366	Tubulin alpha-4A chain	Biological Replicate 1 Only	1
Q9NY65	Tubulin alpha-8 chain	Biological Replicate 2 Only	1
P07437	Tubulin beta chain	Biological Replicate 2 Only	5
P07437	Tubulin beta chain	Both Biological Replicates	10
Q9H4B7	Tubulin beta-1 chain	Both Biological Replicates	2
Q13885	Tubulin beta-2A chain	Biological Replicate 1 Only	5
Q9BVA1	Tubulin beta-2B chain	Both Biological Replicates	11
Q13509	Tubulin beta-3 chain	Biological Replicate 1 Only	3
Q13509	Tubulin beta-3 chain	Both Biological Replicates	7
P04350	Tubulin beta-4A chain	Both Biological Replicates	6
P04350	Tubulin beta-4A chain	Both Biological Replicates	6
P68371	Tubulin beta-4B chain	Both Biological Replicates	12
Q9BUF5	Tubulin beta-6 chain	Both Biological Replicates	4
Q3ZCM7	Tubulin beta-8 chain	Biological Replicate 1 Only	3
C9JJH3	Ubiquitin carboxyl-terminal hydrolase 17-like protein 10	Biological Replicate 1 Only	1
P62979	Ubiquitin-40S ribosomal protein S27a	Biological Replicate 2 Only	1
Q14157	Ubiquitin-associated protein 2-like	Biological Replicate 2 Only	1
P22314	Ubiquitin-like modifier-activating enzyme 1	Biological Replicate 1 Only	2
Q68DL7	Uncharacterized protein C18orf63	Biological Replicate 1 Only	1
Q9ULG3	Uncharacterized protein KIAA1257	Biological Replicate 2 Only	1
Q92614	Unconventional myosin-XVIIIa	Biological Replicate 2 Only	1
Q5T230	Undifferentiated embryonic cell transcription factor 1	Biological Replicate 1 Only	1
Q6ZVL6	UPF0606 protein KIAA1549L	Biological Replicate 2 Only	1
P46939	Utrophin	Biological Replicate 2 Only	1
Q68DQ2	Very large A-kinase anchor protein	Biological Replicate 2 Only	1
P08670	Vimentin	Both Biological Replicates	7
P04275	von Willebrand factor	Biological Replicate 1 Only	2
O00534	von Willebrand factor A domain-containing protein 5A	Biological Replicate 1 Only	1
Q9Y4E6	WD repeat-containing protein 7	Biological Replicate 2 Only	1
P67809	Y-box-binding protein 1	Both Biological Replicates	2
Q8WYQ9	Zinc finger CCHC domain-containing protein 14	Biological Replicate 1 Only	1
Q9NUD5	Zinc finger CCHC domain-containing protein 3	Biological Replicate 2 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
Q8WV37	Zinc finger protein 480	Biological Replicate 2 Only	1
Q9C0D4	Zinc finger protein 518B	Biological Replicate 1 Only	1
Q96IR2	Zinc finger protein 845	Biological Replicate 1 Only	1
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Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
G3ICC6	14-3-3 protein theta	Biological Replicate 1 Only	1
G3I7D7	14-3-3 protein theta	Biological Replicate 1 Only	1
G3HE31	26S protease regulatory subunit 7	Biological Replicate 1 Only	1
G3GSW2	28S ribosomal protein S22, mitochondrial	Biological Replicate 1 Only	1
G3HWX4	40S ribosomal protein S15	Biological Replicate 1 Only	1
G3IF39	40S ribosomal protein S15	Biological Replicate 1 Only	1
G3HTK9	40S ribosomal protein S3a	Biological Replicate 1 Only	1
G3HUW8	40S ribosomal protein S4	Biological Replicate 1 Only	1
G3GYQ6	4-hydroxyphenylpyruvate dioxygenase	Biological Replicate 1 Only	1
G3ILU9	52 kDa Ro protein	Biological Replicate 1 Only	1
G3IKK4	60 kDa heat shock protein, mitochondrial	Biological Replicate 1 Only	1
G3I488	60S ribosomal protein L23	Biological Replicate 1 Only	1
G3H602	60S ribosomal protein L36a	Biological Replicate 1 Only	1
G3H8N3	60S ribosomal protein L4	Biological Replicate 1 Only	1
G3HAD3	60S ribosomal protein L6	Biological Replicate 1 Only	1
G3H7F8	Acidic leucine-rich nuclear phosphoprotein 32 family member B	Biological Replicate 1 Only	1
G3HV77	Addic redene-nen ndereal phosphoprotein 52 family member b ADCK3	Biological Replicate 1 Only	1
G3HDZ3	Adseverin	U	1
G3H638		Biological Replicate 1 Only	1
	AHSA1	Biological Replicate 1 Only	1
G3HUC2	A-kinase anchor protein 2	Biological Replicate 1 Only	1
G3HWK8	Alanine aminotransferase 1	Biological Replicate 1 Only	1
G3HMV7	Alpha-L-fucosidase	Biological Replicate 1 Only	1
G3H559	Alpha-mannosidase	Biological Replicate 1 Only	1
G3HV21	Angiopoietin-related protein 2	Biological Replicate 1 Only	1
G3HSZ4	Anionic trypsin-2	Biological Replicate 1 Only	1
G3HXA1	Ankyrin repeat and MYND domain-containing protein 2	Biological Replicate 1 Only	1
G3IF65	Ankyrin-2	Biological Replicate 1 Only	1
G3HXL6	Annexin	Biological Replicate 1 Only	1
G3IFZ0	Antigen KI-67	Biological Replicate 1 Only	1
G3I8B9	AP-2 complex subunit beta	Biological Replicate 1 Only	1
G3HRA3	ARF GTPase-activating protein GIT1	Biological Replicate 1 Only	1
G3H5C6	Armadillo repeat-containing protein 3	Biological Replicate 1 Only	1
G3H3N9	Armadillo repeat-containing protein 4	Biological Replicate 1 Only	1
G3IN17	Ataxin-1-like	Biological Replicate 1 Only	1
G3I432	ATPase family AAA domain-containing protein 3	Biological Replicate 1 Only	1
G3GU86	Bardet-Biedl syndrome 5 protein-like	Biological Replicate 1 Only	1
G3ILS9	B-cell CLL/lymphoma 9-like protein	Biological Replicate 1 Only	1
G3I6Z7	B-cell scaffold protein with ankyrin repeats	Biological Replicate 1 Only	1
G3HXJ8	Biorientation of chromosomes in cell division protein 1-like	Biological Replicate 1 Only	1
G3HQS5	Bromodomain-containing protein 2	Biological Replicate 1 Only	1
G3HXE4	Bullous pemphigoid antigen 1, isoforms 1/2/3/4	Biological Replicate 1 Only	1
G3ILG5	Bystin	Biological Replicate 1 Only	1
G3HHR6	Cadherin-18	U	1
G3GUB3	Cadrenn- to Calcium-binding mitochondrial carrier protein Aralar1	Biological Replicate 1 Only Biological Poplicate 1 Only	1
		Biological Replicate 1 Only	1
G3GRX6	Calcium-transporting ATPase type 2C member 2	Biological Replicate 1 Only	1
G3HSA2	Calponin	Biological Replicate 1 Only	1
G3GTB7	Calumenin	Biological Replicate 1 Only	1
G3ILN5	Carbonyl reductase 1	Biological Replicate 1 Only	1
G3GVZ4	CC2D1B	Biological Replicate 1 Only	1

Table S3. IC-FPOP oxidatively modified proteins in CHO Cells.

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
G3HWP9	Cell division control protein 2-like	Biological Replicate 1 Only	1
G3GRF9	Centromere protein F	Biological Replicate 1 Only	1
G3H7I7	Centrosome-associated protein 350	Biological Replicate 1 Only	1
G3I3A0	Chromosome-associated kinesin KIF4A	Biological Replicate 1 Only	1
G3HF77	CHTOP	Biological Replicate 1 Only	1
G3H4Z8	Citrate synthase, mitochondrial	Biological Replicate 1 Only	1
G3H9V2	Claspin	Biological Replicate 1 Only	1
G3HUX6	C-myc promoter-binding protein	Biological Replicate 1 Only	1
G3I1K8	Coiled-coil domain-containing protein 46	Biological Replicate 1 Only	1
G3HUW4	Coiled-coil domain-containing protein 75	Biological Replicate 1 Only	1
G3IKH4	Collagen alpha-2 chain	Biological Replicate 1 Only	1
G3HID0	COMM domain-containing protein 5	Biological Replicate 1 Only	1
G3HKC9	Copine-5	Biological Replicate 1 Only	1
G3H6T0	Core histone macro-H2A.2	Biological Replicate 1 Only	1
G3HEQ3	Cytoskeleton-associated protein 4	Biological Replicate 1 Only	1
G3IHL3	Dedicator of cytokinesis protein 10	Biological Replicate 1 Only	1
G3GZT0	Deleted in bladder cancer protein 1-like	Biological Replicate 1 Only	1
G3IG95	Deoxynucleotidyltransferase terminal-interacting protein 2	Biological Replicate 1 Only	1
G3I2S3	Deoxyndcleolidynansielase terminal-interacting protein 2 Deoxyribonuclease-1-like 2	Biological Replicate 1 Only	1
		5	1
G3I1H0	DNA helicase	Biological Replicate 1 Only	1
G3l2l1	DNA helicase	Biological Replicate 1 Only	1
G3IL33	DNA polymerase eta	Biological Replicate 1 Only	•
G3HA98	DNA2-like helicase	Biological Replicate 1 Only	1
0000/04	Dolichyl-diphosphooligosaccharideprotein glycosyltransferase subuni		4
G3GV24		Biological Replicate 1 Only	1
G3HZA6	Dynamin-binding protein	Biological Replicate 1 Only	1
G3IAG7	Dynein heavy chain 3, axonemal	Biological Replicate 1 Only	1
G3HAM0	Dynein heavy chain 5, axonemal	Biological Replicate 1 Only	1
G3I0T8	Dystrophin	Biological Replicate 1 Only	1
G3HRG2	E3 ubiquitin-protein ligase CBL-B	Biological Replicate 1 Only	1
G3HSF5	E3 ubiquitin-protein ligase HECW1	Biological Replicate 1 Only	1
G3GUF2	E3 ubiquitin-protein ligase MYLIP	Biological Replicate 1 Only	1
G3I3W0	Elongation factor 1-alpha 1	Biological Replicate 1 Only	1
G3HXN0	Endoribonuclease Dicer	Biological Replicate 1 Only	1
G3HDA9	Envelope glycoprotein	Biological Replicate 1 Only	1
G3HL21	Ephrin type-B receptor 6	Biological Replicate 1 Only	1
G3HG60	ETS translocation variant 3	Biological Replicate 1 Only	1
G3HEZ1	Eukaryotic peptide chain release factor subunit 1	Biological Replicate 1 Only	1
G3IH35	Eukaryotic translation initiation factor 4 gamma 3	Biological Replicate 1 Only	1
G3H294	FAM109A	Biological Replicate 1 Only	1
G3HH99	Fanconi anemia group B protein-like	Biological Replicate 1 Only	1
G31729	F-box/WD repeat-containing protein 11	Biological Replicate 1 Only	1
G3H4V2	FERM, RhoGEF and pleckstrin domain-containing protein 2	Biological Replicate 1 Only	1
G3I6H5	Fermitin family-like 2	Biological Replicate 1 Only	1
G3IBK2	Filamin-Å	Biological Replicate 1 Only	1
G3HU61	Frizzled-5	Biological Replicate 1 Only	1
G3HW85	FUN14 domain-containing protein 1	Biological Replicate 1 Only	1
G3HJV9	FYVE and coiled-coil domain-containing protein 1	Biological Replicate 1 Only	1
G3IAS7	G kinase-anchoring protein 1	Biological Replicate 1 Only	1
G3H9D5	Gametogenetin-binding protein 2	Biological Replicate 1 Only	1
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Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
G3H914	Ganglioside-induced differentiation-associated protein 2	Biological Replicate 1 Only	1
G3HG45	GAPDH	Biological Replicate 1 Only	1
G3HNV7	Glyceraldehyde-3-phosphate dehydrogenase	Biological Replicate 1 Only	1
G3HWN9	Glyceraldehyde-3-phosphate dehydrogenase	Biological Replicate 1 Only	1
G3HYZ5	Glyceraldehyde-3-phosphate dehydrogenase	Biological Replicate 1 Only	1
G3HZ70	Heat shock 70 kDa protein 1A	Biological Replicate 1 Only	1
G3HZE6	Heat shock 70 kDa protein 1A/1B	Biological Replicate 1 Only	1
G3IFX1	Heterogeneous nuclear ribonucleoprotein C-like 1-like isoform 5	Biological Replicate 1 Only	1
G3HJ68	Heterogeneous nuclear ribonucleoprotein M	Biological Replicate 1 Only	1
G3H5W4	Heterogeneous nuclear ribonucleoprotein Q	Biological Replicate 1 Only	1
G3IA10	Heterogeneous nuclear ribonucleoprotein U-like protein 1	Biological Replicate 1 Only	1
G3GWG3	High mobility group protein B1	Biological Replicate 1 Only	1
G3HUX2	Histone-binding protein RBBP4	Biological Replicate 1 Only	1
G3HD83	Homeobox even-skipped-like protein 1	Biological Replicate 1 Only	1
G3H295	Homeobox protein cut-like	Biological Replicate 1 Only	1
G3GRY1	HSDL1	Biological Replicate 1 Only	1
G3GSH2	HSPA2	Biological Replicate 1 Only	1
G3HA18	Huntingtin-interacting protein 1	Biological Replicate 1 Only	1
G3H9Y8	Hyaluronan mediated motility receptor	Biological Replicate 1 Only	1
G3l973	Hypoxia up-regulated protein 1	Biological Replicate 1 Only	1
G3H718	Inhibitor of Bruton tyrosine kinase	Biological Replicate 1 Only	1
G3H3W4	Insulin-degrading enzyme	Biological Replicate 1 Only	1
G3HDZ7	0 0 ,	U	1
G3H884	Integrin alpha-1	Biological Replicate 1 Only	1
	Interleukin-17 receptor A	Biological Replicate 1 Only	1
G3H3P5	Kinesin-like protein	Biological Replicate 1 Only	1
G3HZE5	Kinesin-like protein	Biological Replicate 1 Only	1
G3H6X6	Kinesin-like protein	Biological Replicate 1 Only	1
G3IE68	Laminin subunit alpha-2	Biological Replicate 1 Only	1
G3H2M7	Laminin subunit beta-3	Biological Replicate 1 Only	•
G3HK76	LETM1 and EF-hand domain-containing protein 1, mitochondrial	Biological Replicate 1 Only	1
G3HX21	Leucine-rich repeat flightless-interacting protein 2	Biological Replicate 1 Only	1
G3H0X2	Leucine-rich repeat-containing protein 57	Biological Replicate 1 Only	1
G3HZW5	L-Fucosyltransferase	Biological Replicate 1 Only	1
G3HN65	LIM and SH3 domain protein 1	Biological Replicate 1 Only	1
G3HB16	Lipin-1	Biological Replicate 1 Only	1
G3H3D2	Lymphoid-restricted membrane protein	Biological Replicate 1 Only	1
G3HYW2	Malignant T cell amplified sequence 1	Biological Replicate 1 Only	1
G3GUB5	Methionine aminopeptidase	Biological Replicate 1 Only	1
G3HKQ7	Microtubule-associated protein	Biological Replicate 1 Only	1
G3H0V1	Microtubule-associated protein 1A	Biological Replicate 1 Only	1
G3I2C8	Muscarinic acetylcholine receptor	Biological Replicate 1 Only	1
G3GRE9	Myb-binding protein 1A	Biological Replicate 1 Only	1
G3HTA4	Myosin-14	Biological Replicate 1 Only	1
G3GYK6	Myosin-binding protein C, cardiac-type	Biological Replicate 1 Only	1
G3H629	Neurexin-3-alpha	Biological Replicate 1 Only	1
G3HDG3	Neuroguidin	Biological Replicate 1 Only	1
G3II61	Neurotrypsin	Biological Replicate 1 Only	1
G3GU05	NKG2D ligand 4	Biological Replicate 1 Only	1
G3IBB9	Nodal modulator 1	Biological Replicate 1 Only	1
G3HAH7	Nuclear receptor subfamily 1 group I member 2	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
G3H4S1	Nuclear receptor-interacting protein 1	Biological Replicate 1 Only	1
G3GR93	Nucleolar GTP-binding protein 1	Biological Replicate 1 Only	1
G3HB02	Nucleolar protein 10	Biological Replicate 1 Only	1
G3IH46	Nucleophosmin	Biological Replicate 1 Only	1
G3I8L7	Olfactory receptor	Biological Replicate 1 Only	1
G3GTW5	Opioid-binding protein/cell adhesion molecule	Biological Replicate 1 Only	1
G3HDG6	Paraspeckle component 1	Biological Replicate 1 Only	1
G3IPM4	Peptidase S1 domain-containing protein	Biological Replicate 1 Only	1
G3HH47	Peptidyl-prolyl cis-trans isomerase	Biological Replicate 1 Only	1
G3GYP9	Peptidyl-prolyl cis-trans isomerase	Biological Replicate 1 Only	1
G3GZB3	Pericentriolar material 1 protein	Biological Replicate 1 Only	1
G3HCG3	Perilipin	Biological Replicate 1 Only	1
G3HVL1	Peroxiredoxin-1	Biological Replicate 1 Only	1
G3H6X2	Phosphatase and actin regulator	Biological Replicate 1 Only	1
G3HLM6	Phosphoglycerate mutase	Biological Replicate 1 Only	1
G3H533	Plasminogen activator inhibitor 1 RNA-binding protein	Biological Replicate 1 Only	1
G3HGL5	Pleckstrin-likey domain-containing family A member 5	Biological Replicate 1 Only	1
G3I3J2	Protachykinin-1	Biological Replicate 1 Only	1
G3GWR8	Proteasome endopeptidase complex	Biological Replicate 1 Only	1
G3HYX3	Protein BTG1	Biological Replicate 1 Only	1
G3HUI7	Protein disulfide-isomerase TMX3	Biological Replicate 1 Only	1
G3HWT7	Protein dopey-2	Biological Replicate 1 Only	1
G3HM99	Protein ERGIC-53	Biological Replicate 1 Only	1
G3IG31	Protein FAM40A	Biological Replicate 1 Only	1
G3GWU9	Protein FAM5C	Biological Replicate 1 Only	1
G3H5W5	Protein HEXIM1	Biological Replicate 1 Only	1
G3GW17	Protein phosphatase 1 regulatory subunit 3A	Biological Replicate 1 Only	1
G3HR99	Protein phosphatase Slingshot-like 2	Biological Replicate 1 Only	1
G3IB34	Protein RRP5-like	Biological Replicate 1 Only	1
G3HF61	Protein strawberry notch-like 2	Biological Replicate 1 Only	1
G3HM65	Protein Wiz	Biological Replicate 1 Only	1
G3HITO	Protein ZNF365	Biological Replicate 1 Only	1
G3GYJ4	Prothrombin	Biological Replicate 1 Only	1
G3HL18	Prothymosin alpha	Biological Replicate 1 Only	1
G3H6A7	Putative global transcription activator SNF2L4	Biological Replicate 1 Only	1
G3HTI7	Putative G-protein coupled receptor 116	Biological Replicate 1 Only	1
G3H5V2	Putative G-protein coupled receptor 179	Biological Replicate 1 Only	1
G3HC41	Pyruvate kinase	Biological Replicate 1 Only	1
G3H6B4	Queuine tRNA-ribosyltransferase	Biological Replicate 1 Only	1
G3GYD2	Rab GTPase-binding effector protein 1	Biological Replicate 1 Only	1
G3I4V4	Ran-binding protein 6	Biological Replicate 1 Only	1
G314 V4 G3H937	Ran-specific GTPase-activating protein	Biological Replicate 1 Only	1
G3HKG8		o . ,	1
G3IF62	Ras GTPase-activating protein-binding protein 2	Biological Replicate 1 Only Biological Poplicate 1 Only	1
G3IF62 G3HP03	Ras GTPase-activating-like protein IQGAP1	Biological Replicate 1 Only Biological Poplicate 1 Only	1
G3HP03 G3HX83	Ras suppressor protein 1	Biological Replicate 1 Only	1
	Ras-related protein Rab-14	Biological Replicate 1 Only	1
G3HC20	Reticulocalbin-3	Biological Replicate 1 Only	1
G3HWV8 G3HJ95	Rho guanine nucleotide exchange factor 18	Biological Replicate 1 Only	1
	RING finger and transmembrane domain-containing protein 1	Biological Replicate 1 Only	1
G3ICM3	RING finger protein 207	Biological Replicate 1 Only	I

GMLARSRNA-binding protein 12Biological Replicate 1 Only1GMLARSRNA-binding protein FUSBiological Replicate 1 Only1GMLARSRobbin FUSBiological Replicate 1 Only1GMLARSRobbin FUSBiological Replicate 1 Only1GMLARSSerinethreonine-protein thrase LMTK1Biological Replicate 1 Only1GMLARSSerinethreonine-protein phosphataseBiological Replicate 1 Only1GMLARSSerinethreonine-protein phosphatase 2A regulatory subunit 8" subunit1GMLARSSerinethreonine-protein Biological Replicate 1 Only1GMLARSSerinethreonine-protein Biological Replicate 1 Only1GMLARSSerinethreonine-protein Biological Replicate 1 Only1GMLARSSplott transient receptor potential channel 5Biological Replicate 1 Only1GMLARSSplott cancer and the transient receptor potential channel 5Biological Replicate 1 Only1GMLARSSplott cancer and the transient receptor potential channel 5Biological Replicate 1 Only1GMLARSSplott cancer and the transient receiver and transient rec	Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
G3BEF1FNN-binding protein FUSBiological Replicate 1 Only1G3BEX6RRPDT-Bile proteinBiological Replicate 1 Only1G3CX65Schnehtmenne-protein phosphataseBiological Replicate 1 Only1G3CW86Schnehtmenne-protein phosphataseBiological Replicate 1 Only1G3GW86Schnehtmenne-protein phosphataseBiological Replicate 1 Only1G3GW86Schnehtmenne-protein phosphataseBiological Replicate 1 Only1G3HAD2Short transient receiptor potential channel 5Biological Replicate 1 Only1G3HAD2Short transient receiptor potential channel 5Biological Replicate 1 Only1G3HAD3Spliceosome RNA helicase BAT1Biological Replicate 1 Only1G3GK28Spliceosome RNA helicase BAT1Biological Replicate 1 Only1G3GK7Spliceosome RNA helicase BAT1Biological Replicate 1 Only1G3GK7Stornelaserine-incling protein 1Biological Replicate 1 Only1G3GK7Stornelaserine-incling protein 1Biological Replicate 1 Only1G3GK7Stornelaserine-incling protein 1Biological Replicate 1 Only1G3HF6Succinate delydrogenase Ilavoprotein subunt, micchondrin Biological Replicate 1 Only1G3HF7Succinate delydrogenase Ilavoprotein subunt, micchondrin Biological Replicate 1 Only1G3HF7Succinate delydrogenase Ilavoprotein subunt, micchondrin Biological Replicate 1 Only1G3HF7Succinate delydrogenase Ilavoprotein Start Biological Replicate 1 Only1	G3HAR3	RNA-binding protein 12	Biological Replicate 1 Only	1
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G3IEX6 Rottelin Biological Replicate 1 Only 1 G3GX56 Scrine/Threonine-protein kinase LMTK1 Biological Replicate 1 Only 1 G3GV786 Scrine/Threonine-protein phosphatase 2A regulatory subunit 8" subonit 2010 (applicate 1 Only 1 G3GV787 Scrine/Threonine-protein phosphatase 2A regulatory subunit 8" subonit 2010 (applicate 1 Only 1 G3GV787 Scrine/Threonine-protein phosphatase 2A regulatory subunit 8" subonit 2010 (applicate 1 Only 1 G3GV787 Scrine/Threonine-protein phosphatase 2A regulatory subunit 8" subonit 2010 (applicate 1 Only 1 G3GV787 Short Imreian damin, brain 2 Biological Replicate 1 Only 1 G3H040 Spectrim brei and hani, brain 2 Biological Replicate 1 Only 1 G3H041 Spectrim brei and hani, brain 2 Biological Replicate 1 Only 1 G3GV68 Splicing factor, arginine/serine-rich 7 Biological Replicate 1 Only 1 G3GV641 Staticator, arginine/serine-rich 7 Biological Replicate 1 Only 1 G3GV641 Staticator, arginine/serine-rich 7 Biological Replicate 1 Only 1 G3GV641 Staticator, arginine/serine-rich 7 Biological Replicate 1 Only 1 G3GV641 Staticator, arginine/serine-rich 7 Biological Replicate 1 Only 1 G3GV641 Staticator, arg	G3IBF1		Biological Replicate 1 Only	1
G31220 BRP15-like protein Belongia Replicate 1 Only 1 G3GW88 Seried.threeonie-protein phosphatase Biological Replicate 1 Only 1 G3GW88 Seried.threeonie-protein phosphatase Biological Replicate 1 Only 1 G3GB2 gamma Biological Replicate 1 Only 1 G3GB2 Gamma SA regulatory subunit B' subunit G3GB2 Gamma SA regulatory SA regulato			Biological Replicate 1 Only	1
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Serinell'treonine-protein phosphalase 2A regulatory subunit B* subunit G31/BP2 G31/BP2 Short transient receptor potential channel 5 Biological Replicate 1 Only 1 G31/L00 SNCC hinge domain-containing protein G31/L31 Spectrin beta chain, brain 2 Biological Replicate 1 Only 1 G31/L31 Spectrin beta chain, brain 2 Biological Replicate 1 Only 1 G31/L31 Spectrin beta chain, brain 2 Biological Replicate 1 Only 1 G31/L31 Spectrin beta chain, brain 2 Biological Replicate 1 Only 1 G31/L31 Spectrin beta chain, brain 2 Biological Replicate 1 Only 1 G31/L31 Spectrin beta chain, brain 2 Biological Replicate 1 Only 1 G31/L31 Spectrin beta chain, brain 2 Biological Replicate 1 Only 1 G31/L31 Spectrin beta chain, brain 2 Biological Replicate 1 Only 1 G31/L31 Spectrin Biological Replicate 1 Only 1 G31/L31 Transcription factor BTF3 Biological Replica		•	o . ,	1
G3IGB2DescriptionBiological Replicate 1 Only1G3IAU0SNC hinge domain-containing proteinBiological Replicate 1 Only1G3IAU3SNC hinge domain-containing proteinBiological Replicate 1 Only1G3IAU3Spectrin beat Ania, Irbain 2Biological Replicate 1 Only1G3IAU3Spectrin beat Ania, Irbain 2Biological Replicate 1 Only1G3IAU3Splicescome RNA helicase BAT1Biological Replicate 1 Only1G3IGI9Splicescome RNA helicase BAT1Biological Replicate 1 Only1G3IGI9STE2O-like serineThreonine-protein kinaseBiological Replicate 1 Only1G3IGI9STE2O-like serineThreonine-protein kinaseBiological Replicate 1 Only1G3IGI9STE2O-like serineThreonine-protein subunt, mitochondrialBiological Replicate 1 Only1G3IGI7Stormal complex central element protein 1Biological Replicate 1 Only1G3IF1Succinate dehydrogenase flavoprotein subunt, mitochondrialBiological Replicate 1 Only1G3IF6Galarita Complex central element protein 1Biological Replicate 1 Only1G3IF76Tat-Lubuin kinase 1Biological Replicate 1 Only1G3IF76Tatestopic repeat protein 5Biological Replicate 1 Only1G3IF76Tatestopic repeat protein 5Biological Replicate 1 Only1G3IF76Tatestopic repeat protein 5Biological Replicate 1 Only1G3IF76Tatestopic repeat 5Biological Replicate 1 Only1G3IF76Ta				
G3HPA2Short transient receptor potential channel 5Biological Replicate 1 Only1G3HA2SPC hinge domain-containing proteinBiological Replicate 1 Only1G3HG3Splicing factor, arginine/serineBiological Replicate 1 Only1G3HC3Splicing factor, arginine/serine-rich 7Biological Replicate 1 Only1G3HG4Splicing factor, arginine/serine-rich 7Biological Replicate 1 Only1G3HG9STE20-ilke serine-rich 7Biological Replicate 1 Only1G3HG7Steroline-protein kinaseBiological Replicate 1 Only1G3HG7Steroline-grupale protein kinaseBiological Replicate 1 Only1G3HG7Steroline-grupalex protein 1Biological Replicate 1 Only1G3HV6Storonal cell derived factor 2-like protein 1Biological Replicate 1 Only1G3HV6Succinate delydrogenase favorotein subunit, mitochondrialBiological Replicate 1 Only1G3HV6Succinate delydrogenase favorotein subunit, mitochondrialBiological Replicate 1 Only1G3HV6Synaptorenal complex central element protein 1Biological Replicate 1 Only1G3HV6Tau-tubulin kinase 1Biological Replicate 1 Only1G3HC8Tau-tubulin kinase 1Biological Replicate 1 Only1G3HC9Tau-tubulin kinase 1Biological Replicate 1 Only1G3HC6Tau-tubulin kinase 1Biological Replicate 1 Only1G3HC7Tau-tubulin kinase 1Biological Replicate 1 Only1G3HC8Transcrip	G3IGB2		Biological Replicate 1 Only	1
G3IAU0SNC hinge domain-containing proteinBiological Replicate 1 Only1G3I4L3Spectrin beat hain, brain 2Biological Replicate 1 Only1G3I908SPINABiological Replicate 1 Only1G3I6200Splitescome RNA helicase BA11Biological Replicate 1 Only1G3I6201Splitescome RNA helicase BA11Biological Replicate 1 Only1G3I619STE20-like serine/Ihreonine-protein kinaseBiological Replicate 1 Only1G3I619Strond cell-derived factor 2-like proteinBiological Replicate 1 Only1G3I619Strond cell-derived factor 2-like protein 1Biological Replicate 1 Only1G3I619Succinate dehydrogenase flavoprotein suburit, mitochondrialBiological Replicate 1 Only1G3I75Synaptonemal complex central element protein 1Biological Replicate 1 Only1G3I76Synaptonemal complex central element protein 1Biological Replicate 1 Only1G3I76Synaptonemal complex central element protein 1Biological Replicate 1 Only1G3I76Synaptonemal complex central element protein 1Biological Replicate 1 Only1G3I76Synaptonema complex central element protein 5Biological Replicate 1 Only1G3I76Synaptonema complex central element protein 5Biological Replicate 1 Only1G3I76Synaptonema complex central element protein 5Biological Replicate 1 Only1G3I76Transcription factor BTF3Biological Replicate 1 Only1G3I76Transcription factor BTF3		5	o , , , ,	-
G314L3 Spectrin beta chain, brain 2 Biological Replicate 1 Only 1 G319Q8 Spliceosome RNA helicase BAT1 Biological Replicate 1 Only 1 G342243 Spliceosome RNA helicase BAT1 Biological Replicate 1 Only 1 G34C30 Splicing factor, arginine/servine-rich 7 Biological Replicate 1 Only 1 G31G01 STE2DH ise servine/thronine-protein kinase Biological Replicate 1 Only 1 G31G19 STE2DH ise servine/thronine-protein kinase Biological Replicate 1 Only 1 G31G17 Steorine/tavier dator 2-kike protein 1 Biological Replicate 1 Only 1 G31G17 Synaphorenal complex central element protein 1 Biological Replicate 1 Only 1 G31G17 Synaphorenal complex central element protein 1 Biological Replicate 1 Only 1 G31G3 Tetratricopeptide repeat protein 5 Biological Replicate 1 Only 1 G31G3 Tetratricopeptide repeat protein 5 Biological Replicate 1 Only 1 G31G3 Tetratricopeptide repeat protein 5 Biological Replicate 1 Only 1 G31G3 Tetratricopeptide repeat protein 5 Biological Replicate 1 Only 1 G31G3			o . ,	•
G3908SPINABiological Repicate 10 niv1G34243Spiceosone RNA helicase BAT1Biological Repicate 10 niv1G34001Spiceosone RNA helicase BAT1Biological Repicate 10 niv1G3H071Stabilin-2Biological Repicate 10 niv1G3H071Stabilin-2Biological Repicate 10 niv1G3H87Steoro regularoy element-bioling protein 2Biological Repicate 10 niv1G3H74Steoro regularoy element-bioling protein 1Biological Repicate 10 niv1G3H74Succinate dehydrogenase flavoprotein suburit, mitochondrialBiological Repicate 10 niv1G3H75Synaptonemal complex central element protein 1Biological Repicate 10 niv1G3H760Tetraturicopelide repeat protein 5Biological Repicate 10 niv1G3H761Tetraturicopelide repeat protein 5Biological Repicate 10 niv1G3H763Tetraturicopelide repeat protein 5Biological Repicate 10 niv1G3G5H2Tetraturicopelide repeat protein 5Biological Repicate 10 niv1G3G6H2Transeription factor BT3Biological Repicate 10 niv1G3H651Transeription factor BT3Biological Repicate 10 niv1G3H652Transeription factor BT3Biological Repicate 10 niv1G3H653Transeription factor BT3Biological Repicate 10 niv1G3H674Transeription factor BT3Biological Repicate 10 niv1G3H675Transent receptor potential calion channel subfamily M member 1Biological Repicat			a . ,	•
G31/2H3Spliceosome RNA helicase BA11Biological Replicate 1 Only1G36209Splicing factor, arginine/serine-rich 7Biological Replicate 1 Only1G31601STE20/like serine/throonine-protein kinaseBiological Replicate 1 Only1G31877Sterol regulatory element-binding protein 2Biological Replicate 1 Only1G31971Stromal cell-derived factor 2-like protein 1Biological Replicate 1 Only1G31971Succinate dehydrogenase flavoprotein subunit mitochondrialBiological Replicate 1 Only1G31975Synaptonemal complex central element trotein 1Biological Replicate 1 Only1G31975Synaptonemal complex central element trotein 1Biological Replicate 1 Only1G31976Tat-ubulin kinase 1Biological Replicate 1 Only1G31976Tat-ubulin kinase 1Biological Replicate 1 Only1G31973Synaptonemal complex central element trotein 5Biological Replicate 1 Only1G31973Tat-ubulin kinase 1Biological Replicate 1 Only1G31974Tat-ubulin kinase 1Biological Replicate 1 Only1G31975Tatanistic receptor 5Biological Replicate 1 Only1G31974Tatascription factor BT3Biological Replicate 1 Only1G31975Tatasient receptor potential cation channel subfamily Member 1Biological Replicate 1 Only1G31976Tatascription factor BT3Biological Replicate 1 Only1G31976Tatascription factor BT3Biological Replicate 1 Only1<			a . ,	•
G3G290Splicing factor, arginine/serine-rich 7Biological Replicate 1 Only1G3H0N1Stabilin-2Biological Replicate 1 Only1G3IGI0STE20-like serine/threonine-protein kinaseBiological Replicate 1 Only1G3IBR7Sterol regulatory element-binding proteins 2Biological Replicate 1 Only1G3IBR7Sterol regulatory element-binding proteins 2Biological Replicate 1 Only1G3GUV4Strome clear 2/ke protein 1Biological Replicate 1 Only1G3IBR7Succinate delydrogenase flavoprotein suburit, mitochondrialBiological Replicate 1 Only1G3IBR7Synaptonemal complex central element protein 1Biological Replicate 1 Only1G3IBR6Tat-tubulin kinase 1Biological Replicate 1 Only1G3IH26Tetratricopetide repeat protein 5Biological Replicate 1 Only1G3IGS14Tetratricopetide repeat protein 5Biological Replicate 1 Only1G3IGG1Transcription factor BTF3Biological Replicate 1 Only1G3IGS2Transcription factor BTF3Biological Replicate 1 Only1G3IH28Transcription factor BTF3Biological Replicate 1 Only1G3IH29Transcription GTPASBiological Replicate 1 Only1G3IH29Transcription factor BTF3<			o . ,	-
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G3IEY9 Utrophin Biological Replicate 1 Only 1			o . ,	•
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G317E8 WD repeat-containing protein 60 Biological Replicate 1 Only 1		·	o . ,	
	G3I/Eð	wD repeat-containing protein 60	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
G3IP37	WD repeat-containing protein 67	Biological Replicate 1 Only	1
G3ILL8	WD repeat-containing protein C10orf79	Biological Replicate 1 Only	1
G3HEX9	Zinc finger protein DZIP1L	Biological Replicate 1 Only	1
G3HCM3	Zinc finger protein Rlf	Biological Replicate 1 Only	1
G3HUR8	10 kDa heat shock protein, mitochondrial	Biological Replicate 2 Only	1
G3I7W5	25-hydroxycholesterol 7-alpha-hydroxylase	Biological Replicate 2 Only	1
G3IHM5	26S proteasome non-ATPase regulatory subunit 4	Biological Replicate 2 Only	1
G3IMD1	40S ribosomal protein S26	Biological Replicate 2 Only	1
G3HTK4	52 kDa repressor of the inhibitor of the protein kinase	Biological Replicate 2 Only	1
G3HJM9	5'-nucleotidase domain-containing protein 1	Biological Replicate 2 Only	1
G3IDC2	60S acidic ribosomal protein P1	Biological Replicate 2 Only	1
G3HBE9	60S ribosomal protein L13a	Biological Replicate 2 Only	1
G3HAQ2	60S ribosomal protein L18	Biological Replicate 2 Only	1
G3HE04	60S ribosomal protein L5	Biological Replicate 2 Only	1
G3HF38	60S ribosomal protein L8	Biological Replicate 2 Only	1
G3HVI3	Actin-binding WH2 containing protein	Biological Replicate 2 Only	1
G3IA30	ADP-ribosylation factor 4	Biological Replicate 2 Only	2
G31088	A-kinase anchor protein 9	Biological Replicate 2 Only	- 1
G3HY68	Alpha-enolase	Biological Replicate 2 Only	1
G31616	Alpha-enolase	Biological Replicate 2 Only	1
G3HLY7	Amino acid transporter	Biological Replicate 2 Only	1
G3HDH1	Ankyrin repeat domain-containing protein 27	Biological Replicate 2 Only	1
G3HZW3	Ankynn repeat domain containing protein 27 Annexin	Biological Replicate 2 Only	1
G3H2W3 G3H219	AP-1 complex subunit gamma	Biological Replicate 2 Only	1
		U	1
G3HSX3 G3HGF4	Aspartate aminotransferase	Biological Replicate 2 Only Biological Replicate 2 Only	1
	AT-hook-containing transcription factor	U	1
G3IBD6	ATP-dependent RNA helicase DDX18	Biological Replicate 2 Only	1
G3H170 G3H354	Basigin	Biological Replicate 2 Only	4
	B-cell receptor-associated protein 31	Biological Replicate 2 Only	4
G31630	Beta-adducin	Biological Replicate 2 Only	1
G318G1	Brain-specific angiogenesis inhibitor 1	Biological Replicate 2 Only	
G3GUS2	CAD protein	Biological Replicate 2 Only	1
G3I4H6	Calmodulin	Biological Replicate 2 Only	1
G3GXT7	Catenin alpha-1	Biological Replicate 2 Only	1
G3IAI7	CNPY2	Biological Replicate 2 Only	1
G3GRD6	Coatomer subunit beta	Biological Replicate 2 Only	1
G3H3B4	Cohesin subunit SA-2	Biological Replicate 2 Only	1
G3HN72	Coiled-coil domain-containing protein 22	Biological Replicate 2 Only	1
G3HWA3	Delta-1-pyrroline-5-carboxylate synthase	Biological Replicate 2 Only	1
G3HLZ9	DENN domain-containing protein 2C	Biological Replicate 2 Only	1
G3H3C6	Desmin	Biological Replicate 2 Only	1
G3GZ37	Disks large-associated protein 2	Biological Replicate 2 Only	1
G3ICZ6	DMRT-like domain-containing protein	Biological Replicate 2 Only	1
G3I322	DNA replication licensing factor MCM9	Biological Replicate 2 Only	1
G31003	DNA topoisomerase	Biological Replicate 2 Only	1
G3IFY1	Drebrin	Biological Replicate 2 Only	1
G3I1S5	Drebrin-like protein	Biological Replicate 2 Only	1
G3l911	Dual specificity protein phosphatase CDC14B	Biological Replicate 2 Only	1
G3IBN9	Dynein heavy chain 7, axonemal	Biological Replicate 2 Only	1
GSIDINS			

G3H646E3 ubiquith-proten ligase D2IP3Biological Replicate 2 Only1G3GVA0E3 ubiquith-proten ligase HUWE1Biological Replicate 2 Only1G3HD10Elongation factor 1-betaBiological Replicate 2 Only1G3HX88Envelope qhycoproteinBiological Replicate 2 Only1G3HS54Eukaryotic translation initiation factor 1Biological Replicate 2 Only1G3H01Exportin-5Biological Replicate 2 Only1G3H021Exportin-5Biological Replicate 2 Only1G3H036FAST kinase domain-containing protein 5Biological Replicate 2 Only1G3H266FAST kinase domain-containing protein 3Biological Replicate 2 Only1G3H266FAST kinase domain-containing protein 3Biological Replicate 2 Only1G3H266FAST kinase domain-containing protein 3Biological Replicate 2 Only1G3H270Fitroblast growth factor receptor substrate 3Biological Replicate 2 Only1G3H267Gamma-tubulin complex componentBiological Replicate 2 Only1G3H273Gutathicar perovidase 2Biological Replicate 2 Only1G3H273Glyceraidehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3H268Glyceraidehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3GX50General transcription factor 3C polypeptide 2Biological Replicate 2 Only1G3GX51Glyceraidehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3GX51Glyce	Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
G3HD10Eiongation factor 1-betaBiological Replicate 2 Only1G3HX86Ervelope glycoproteinBiological Replicate 2 Only1G3HS64Etvaryotic translation-related factor 1Biological Replicate 2 Only1G3HY.18Ervaroellul ar sulfataseBiological Replicate 2 Only1G3HV864Etvaroellul ar sulfataseBiological Replicate 2 Only1G3HV86FAST kinase domain-containing protein 5Biological Replicate 2 Only1G3HV17Fabor Nation 100 (FMU/FPL2)1G3GX00Furtice 100 (FMU/FPL2)100 (GMU/FPL2)G3G2N0Furtice 100 (FMU/FPL2)100 (GMU/FPL2)G3G2N0Furtice 100 (GMU/FPL2)100 (GMU/FPL2)G3G2N0Furtice 100 (GMU/FPL2)100 (GMU/FPL2)G3G2N0Furtice 100 (GMU/FPL2)100 (GMU/FPL2)G3G2N0Furtice 100 (GMU/FPL2)100 (GMU/FPL2)G3G2N0General transcription factor 30 (GMU/FPL2)100 (GMU/FPL2)G3G2N0General transcription factor 30 (GMU/FPL2)Biological Replicate 2 OnlyG3G2N0General transcription factor 30 (GMU/FPL2)Biological Repl	G3H646	E3 ubiquitin-protein ligase DZIP3	Biological Replicate 2 Only	1
G3HXX8Envelope glycoproteinBiological Replicate 2 Only1G3HX8Exptrion differentiation-related factor 1Biological Replicate 2 Only1G3HX8Exportin-5Biological Replicate 2 Only2G30O1Exptortin-5Biological Replicate 2 Only1G3HX86FAST kinase domain-containing protein 5Biological Replicate 2 Only1G3HX97F-box only protein 8Biological Replicate 2 Only1G3HX96FH1/FH2 domain-containing protein 3Biological Replicate 2 Only1G3HX97FerritinBiological Replicate 2 Only1G3HX98Gamma-tubulin complex componentBiological Replicate 2 Only1G3HX99Gamma-tubulin complex componentBiological Replicate 2 Only1G3HX99Gamma-tubulin complex componentBiological Replicate 2 Only1G3GX80General transcription factor 3C polypeptide 2Biological Replicate 2 Only1G3GX80General transcription factor 3C polypeptide 2Biological Replicate 2 Only1G3GX873Gilveraidehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3HF33Gilveraidehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3GX873Gilveraidehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3GX87Gilveraidehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3GX87Gilveraidehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3GX873Gilveraidehyde-3-phosphat	G3GVA0	E3 ubiquitin-protein ligase HUWE1	Biological Replicate 2 Only	1
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G310Q1Extracellular sulfataseBiological Replicate 2 Only1G3143E6FAST kinase domain-containing protein 5Biological Replicate 2 Only1G3147V17F-box only protein 8Biological Replicate 2 Only1G3627V0FH1/FH2 domain-containing protein 3Biological Replicate 2 Only1G31039Fibroblast growth factor receptor substrate 3Biological Replicate 2 Only1G31039Fibroblast growth factor receptor substrate 3Biological Replicate 2 Only1G319N7Furctose-bisphosphate aldolaseBiological Replicate 2 Only1G318N8Gamma-tubulin complex componentBiological Replicate 2 Only1G31630General transcription factor 3C polyeptide 2Biological Replicate 2 Only1G316373Gilveraldehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G31733Gilveraldehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G318F7Gilveraldehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G318F6Gilveraldehyde-3-phosphate dehydrog			U	2
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G318Y6FH1/FH2 domain-containing protein 3Biological Replicate 2 Only1G31039Fibroblast growth factor receptor substrate 3Biological Replicate 2 Only1G319N7Fructose-bisphosphate aldolaseBiological Replicate 2 Only1G3HW9Garma-tubulin complex componentBiological Replicate 2 Only1G3BN8GAPDHBiological Replicate 2 Only1G3CN0General transcription factor 3C polypeptide 2Biological Replicate 2 Only1G3HB73Glucatione peroxidase 2Biological Replicate 2 Only1G3NB73Gluceraldehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3HB76Glyceraldehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3NB77Glyceraldehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3GSD8Glyceraldehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3I8F6Glyceraldehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3I8F6Glyceraldehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3I8F6Glyceraldehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3IR50Glyceraldehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3IR50Glyceraldehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3IR50Glyceraldehyde-3-phosphate dehydrogenaseBiological Replicate 2 Only1G3IR50Glyceraldehyde-3-phosphate dehydrogenaseBiological R			U	•
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G3GY44 Keratin, type I cytoskeletal 15 Biological Replicate 2 Only 1			5	•
G3HV39 Keratin, type I cytoskeletal 17 Biological Replicate 2 Only 1			U	•
G3I8G0 Keratin, type I cytoskeletal 19 Biological Replicate 2 Only 2			U	
G3I6E9 Keratin, type I cytoskeletal 42 Biological Replicate 2 Only 1			U	•
G3IFS9 Keratin, type II cytoskeletal 2 oral Biological Replicate 2 Only 1			U	•
G3H2Z7 Keratin, type II cytoskeletal 4 Biological Replicate 2 Only 2			U	
G3H208 Keratin, type II cytoskeletal 6A Biological Replicate 2 Only 1			U	-
G3IBN5 Keratin, type II cytoskeletal 71 Biological Replicate 2 Only 1	G3IBN5	Keratin, type II cytoskeletal 71	Biological Replicate 2 Only	
G3HXR4 Kinesin-like protein Biological Replicate 2 Only 1	G3HXR4	Kinesin-like protein	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
G3IF29	Leucine-rich repeat-containing protein 26	Biological Replicate 2 Only	1
G3IM72	Leucine-rich repeat-containing protein 59	Biological Replicate 2 Only	1
G3I0S4	Lin-28-like A	Biological Replicate 2 Only	1
G3HBD3	L-lactate dehydrogenase	Biological Replicate 2 Only	2
G3I2Z3	Lysine-specific demethylase 2A	Biological Replicate 2 Only	1
G3H2X6	Metalloproteinase inhibitor 2	Biological Replicate 2 Only	1
G3HM47	Microtubule-actin cross-linking factor 1, isoform 4	Biological Replicate 2 Only	1
G3GUU5	Microtubule-associated protein 6	Biological Replicate 2 Only	1
G3GT01	MIF4G domain-containing protein	Biological Replicate 2 Only	1
G3H0U6	Mitochondrial import receptor subunit TOM22-like	Biological Replicate 2 Only	2
G3H0G2	MKI67 FHA domain-interacting nucleolar phosphoprotein	Biological Replicate 2 Only	1
G3I2D5	Multidrug resistance-associated protein 5	Biological Replicate 2 Only	1
G3HF20	Mutated melanoma-associated antigen 1	Biological Replicate 2 Only	1
G3I621	Myosin-10	Biological Replicate 2 Only	1
G3GSK3	Myosin-8	Biological Replicate 2 Only	1
G3I6Z5	Myosin-XVIIIa	Biological Replicate 2 Only	1
G3IEM6	NACHT, LRR and PYD domains-containing protein 2	Biological Replicate 2 Only	1
G3HJF7	Neuromodulin	Biological Replicate 2 Only	1
G3HHZ0	Neuron navigator 3	Biological Replicate 2 Only	1
G3GR94	Non-specific serine/threonine protein kinase	Biological Replicate 2 Only	1
G3H8F9	Nucleoside diphosphate kinase	Biological Replicate 2 Only	1
G3l613	Obscurin-like protein 1	Biological Replicate 2 Only	1
G3IG36	Olfactory receptor	Biological Replicate 2 Only	1
G3HNJ6	Olfactory receptor	Biological Replicate 2 Only	2
G3H9M6	Olfactory receptor 2T2	Biological Replicate 2 Only	1
G3H9M0 G3HNB2	OMACIONY RECEPTOR 212	Biological Replicate 2 Only	1
G3GUL3	PDX1	Biological Replicate 2 Only	1
G3HZA3	Peptidylprolyl isomerase	Biological Replicate 2 Only	1
G3IDT6	Peptidylprolyl isomerase	Biological Replicate 2 Only	1
G3HUR1	PH and SEC7 domain-containing protein 2	U	1
		Biological Replicate 2 Only	1
G3I129	Poly-binding protein 2	Biological Replicate 2 Only	1
G3H7C8	Poly-binding protein 3	Biological Replicate 2 Only	•
G3HAG8	Potassium voltage-gated channel subfamily H member 2	Biological Replicate 2 Only	1
G3I2J8	Proteasome subunit alpha type	Biological Replicate 2 Only	1
G3GWI1	Protein ALO17	Biological Replicate 2 Only	1
G3HEZ0	Protein disulfide-isomerase A3	Biological Replicate 2 Only	1
G3HMB9	Protein disulfide-isomerase A4	Biological Replicate 2 Only	1
G3H7T9	Protein DJ-1	Biological Replicate 2 Only	1
G3HWD0	Protein kinase C and casein kinase substrate in neurons protein 2	Biological Replicate 2 Only	1
G3H439	Protein naked cuticle-like 1	Biological Replicate 2 Only	1
G3H5M2	Protein O-mannosyl-transferase 2	Biological Replicate 2 Only	1
G3GSU4	Protein phosphatase 1G	Biological Replicate 2 Only	3
G3IEU2	Protein sidekick-2	Biological Replicate 2 Only	2
G3I411	Protein transport protein sec16	Biological Replicate 2 Only	1
G3H204	Proteolipid protein 2	Biological Replicate 2 Only	1
G3HXT3	Protocadherin-7	Biological Replicate 2 Only	1
G3GTI1	Putative ATP-dependent RNA helicase DDX60	Biological Replicate 2 Only	1
G3HGA3	Putative E3 ubiquitin-protein ligase MYCBP2	Biological Replicate 2 Only	1
G3HCD9	Putative UPF0575 protein C19orf67 like protein	Biological Replicate 2 Only	1
G3HZU7	Pyrin	Biological Replicate 2 Only	1

G3HMQ0 Rab GDP dissociation inhibitor Biological Replicate 2 Only	1
G3HF72 Ras GTPase-activating-like protein IQGAP3 Biological Replicate 2 Only	1
G3HG79 Rho guanine nucleotide exchange factor 2 Biological Replicate 2 Only	1
G3GZ13 Ribosome-binding protein 1 Biological Replicate 2 Only	1
G3GSW3 RING finger protein 160 Biological Replicate 2 Only	1
G3IKI7 RUN and FYVE domain-containing protein 4 Biological Replicate 2 Only	1
G3HIP2 RUN domain-containing protein 1 Biological Replicate 2 Only	1
G3HI28 RuvB-like helicase Biological Replicate 2 Only	1
G3IKJ2 Secretory carrier-associated membrane protein Biological Replicate 2 Only	1
G3IPN2 Sentrin-specific protease 5 Biological Replicate 2 Only	2
G3H134 Septin-8 Biological Replicate 2 Only	1
G3GVI0 Serine/threonine-protein kinase 31 Biological Replicate 2 Only	1
G3HK64 Serine/threonine-protein kinase WNK4 Biological Replicate 2 Only	1
G3I6F2 S-glutathione dehydrogenase Biological Replicate 2 Only	1
G3H9N8 SHC-transforming protein 1 Biological Replicate 2 Only	1
G3HUM7 Signal recognition particle 19 kDa protein Biological Replicate 2 Only	1
G3HC68 Sodium/potassium-transporting ATPase subunit alpha Biological Replicate 2 Only	1
	1
	1
	1
G3INN8 Stress-70 protein, mitochondrial Biological Replicate 2 Only	•
G3IG05 Stress-induced-phosphoprotein 1 Biological Replicate 2 Only	1
G3IIX1 Structural maintenance of chromosomes protein 3 Biological Replicate 2 Only	1
G3HIC5 Suppressor of IKK-epsilon protein A Biological Replicate 2 Only	1
G3HPW6 Synaptotagmin-like protein 2 Biological Replicate 2 Only	1
G3I877 Syntaxin-12 Biological Replicate 2 Only	1
G3I7Y5 Target of Myb protein 1 Biological Replicate 2 Only	1
G3HRP2 Tetraspanin Biological Replicate 2 Only	1
G3H6P6 Tetratricopeptide repeat protein 8 Biological Replicate 2 Only	1
G3HY79 Transcriptional regulator Kaiso Biological Replicate 2 Only	1
G3GXU1 Transforming protein RhoA Biological Replicate 2 Only	1
G3HM98 Transketolase Biological Replicate 2 Only	1
G3H2L3 Tripartite motif-containing protein 60 Biological Replicate 2 Only	1
G3HSR5 Tubby-related protein 4 Biological Replicate 2 Only	1
G3I255 Tubulin alpha chain Biological Replicate 2 Only	1
G3IHW0 Tubulin alpha chain Biological Replicate 2 Only	1
G3HNB8 TYMS Biological Replicate 2 Only	1
G3IC35 Tyrosine-protein phosphatase non-receptor type 13 Biological Replicate 2 Only	1
G3I9H0 Ubiquitin Biological Replicate 2 Only	1
G3GTE7 von Willebrand factor Biological Replicate 2 Only	1
G3IGN4 VPS10 domain-containing receptor SorCS3 Biological Replicate 2 Only	1
G3I108 Zinc finger protein PLAG1 Biological Replicate 2 Only	1
G3HCL2 14-3-3 protein beta/alpha Both Biological Replicates	2
G3I3C7 14-3-3 protein epsilon Both Biological Replicates	2
G3I8R9 14-3-3 protein zeta/delta Both Biological Replicates	3
G3IAQ0 40S ribosomal protein S3 Both Biological Replicates	2
G3IHP6 60 kDa heat shock protein, mitochondrial Both Biological Replicates	2
	2
G3H2T7 Actin, alpha cardiac muscle 1 Both Biological Replicates	2
G3IKS8 Actin, gamma-enteric smooth muscle Both Biological Replicates	2
G3IAG4 Alpha-actinin-1 Both Biological Replicates	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
G3I5T3	Alpha-enolase	Both Biological Replicates	2
G3HQM6	Alpha-enolase	Both Biological Replicates	2
G3HR98	Anionic trypsin-2-like protein	Both Biological Replicates	2
G3I2Q7	ANKRD37	Both Biological Replicates	3
G3H1K9	Annexin	Both Biological Replicates	3
G3IG81	Beta-actin-like protein 2	Both Biological Replicates	2
G3H3Q1	Calreticulin	Both Biological Replicates	3
G3GVX1	CLIP-associating protein 2	Both Biological Replicates	2
G3GWT5	Cytoplasmic dynein 1 heavy chain 1	Both Biological Replicates	2
G3HLS2	EF-hand calcium-binding domain-containing protein 5	Both Biological Replicates	3
G3HDS3	Elongation factor 1-alpha 1	Both Biological Replicates	2
G3I968	Elongation factor 1-alpha 1	Both Biological Replicates	2
G3H2I6	Elongation factor 1-delta	Both Biological Replicates	3
G3HXU0	Elongation factor 2	Both Biological Replicates	2
G3HPV7	Endoplasmic reticulum chaperone BiP	Both Biological Replicates	3
G3HKZ1	Endoplasmin	Both Biological Replicates	2
G3H352	EZR	Both Biological Replicates	2
G3HHR3	Fructose-bisphosphate aldolase	Both Biological Replicates	2
G3HCX8	Galectin	Both Biological Replicates	3
G3IEX2	Glyceraldehyde-3-phosphate dehydrogenase	Both Biological Replicates	2
G3HH39	Glyceraldehyde-3-phosphate dehydrogenase	Both Biological Replicates	2
G3HL13	Glyceraldehyde-3-phosphate dehydrogenase	Both Biological Replicates	4
G3HAY0	GRIP1-associated protein 1	Both Biological Replicates	2
G3HNC4	H-2 class I histocompatibility antigen, D-D alpha chain	Both Biological Replicates	2
G3HXM1	Heat shock 70 kDa protein 1L	Both Biological Replicates	2
G3I0W1	Heat shock cognate 71 kDa protein	Both Biological Replicates	2
G3IJ02	5	o .	2
G31302 G3H7Z2	Heterogeneous nuclear ribonucleoproteins A2/B1 Histone H2A	Both Biological Replicates Both Biological Replicates	3
G3IPU3	Historie H2A	5 1	2
G3I4Z7	Historie H2A	Both Biological Replicates	3
		Both Biological Replicates	
G3H5Q0	Histone H2A	Both Biological Replicates	5 2
G3HFP1	Histone H2A	Both Biological Replicates	
G3IDL7	Histone H2B	Both Biological Replicates	5
G3HHM2	Histone H3	Both Biological Replicates	3
G3HYJ9	Histone H3.1t	Both Biological Replicates	2
G3GXA9	Histone H4	Both Biological Replicates	3
G3HBJ3	Intercellular adhesion molecule 1	Both Biological Replicates	2
G3GU92	Keratin, type I cytoskeletal 14	Both Biological Replicates	2
G3GRQ1	Keratin, type I cytoskeletal 27	Both Biological Replicates	4
G3HMD1	Keratin, type II cytoskeletal 1b	Both Biological Replicates	3
G317J6	Keratin, type II cytoskeletal 2 epidermal	Both Biological Replicates	2
G3HWN8	Kinesin-like protein KIF27	Both Biological Replicates	2
G3H154	Leucine-rich repeat flightless-interacting protein 1	Both Biological Replicates	2
G3HQN3	Leucine-rich repeat-containing protein KIAA1731	Both Biological Replicates	2
G3HMW8	Lupus La protein-like	Both Biological Replicates	2
G3HQP8	Moesin	Both Biological Replicates	4
G3HN02	Mucin-5B	Both Biological Replicates	2
G3IKI6	Myosin-11	Both Biological Replicates	3
Q9ERF7	Myosin-9	Both Biological Replicates	2
G3I3L6	NEDD4-binding protein 2	Both Biological Replicates	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
G3HV53	Negative elongation factor D	Both Biological Replicates	2
G3IDD4	Neural cell adhesion molecule 1	Both Biological Replicates	3
G3I3X4	Non-POU domain-containing octamer-binding protein	Both Biological Replicates	2
G3IJR3	Nuclease-sensitive element-binding protein 1	Both Biological Replicates	3
G3HTL1	Nucleoside diphosphate kinase	Both Biological Replicates	2
G3IFP5	Oxysterol-binding protein	Both Biological Replicates	2
G3HDT0	Peripherin	Both Biological Replicates	3
G3H576	Prohibitin	Both Biological Replicates	2
G3I5H3	Protein disulfide-isomerase	Both Biological Replicates	3
G3GSN1	Protein disulfide-isomerase A5	Both Biological Replicates	2
G3HJW0	Putative allantoicase	Both Biological Replicates	2
G3IBP3	Putative ATP-dependent RNA helicase DDX6	Both Biological Replicates	4
G3I558	Putative RNA exonuclease NEF-sp	Both Biological Replicates	2
G3GVD0	Pyruvate kinase	Both Biological Replicates	11
G3l6P1	Radixin	Both Biological Replicates	2
G3HBD4	Ras-related protein Rab-1B	Both Biological Replicates	2
G3HUA1	Retinoic acid receptor gamma	Both Biological Replicates	2
G3H2N7	Sacsin	Both Biological Replicates	2
G3H8R0	Serine/threonine-protein kinase PCTAIRE-3	Both Biological Replicates	2
G3H2J8	SERPINH1	Both Biological Replicates	3
G3IDD9	Small nuclear ribonucleoprotein F	Both Biological Replicates	2
G3IH63	Spermatogenesis-associated protein 5	Both Biological Replicates	2
G3ID81	Talin-1	Both Biological Replicates	3
G3HSP9	Tetratricopeptide repeat protein 3	Both Biological Replicates	2
G3HSL4	Transcription intermediary factor 1-beta	Both Biological Replicates	4
G3I8F9	Transgelin	Both Biological Replicates	5
G3GSP9	Tubulin beta chain	Both Biological Replicates	2
G3IAS8	Tubulin beta chain	Both Biological Replicates	3
G3IPJ0	Tubulin beta chain	Both Biological Replicates	2
G3HFM7	Tubulin beta-3 chain	Both Biological Replicates	3
G3I2E9	Tubulin beta-6 chain	Both Biological Replicates	3
G3IEG6	Tubulintyrosine ligase-like protein 12	Both Biological Replicates	6
G3I4A0	VIM	Both Biological Replicates	4
G3HWC3	Zinc fingers and homeoboxes protein 3	Both Biological Replicates	2
G3H1V7	Actin, cytoplasmic 2	Both Biological Replicates	3

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P31946	14-3-3 protein beta/alpha	Biological Replicate 1 Only	1
P27348	14-3-3 protein theta	Biological Replicate 1 Only	1
B9VP19	60 kDa chaperonin	Biological Replicate 1 Only	1
P68032	Actin, alpha cardiac muscle 1	Biological Replicate 1 Only	1
Q8N3C0	Activating signal cointegrator 1 complex subunit 3	Biological Replicate 1 Only	1
A8K1F6	Adenosine receptor A2	Biological Replicate 1 Only	1
Q5H913	ADP-ribosylation factor-like protein 13A	Biological Replicate 1 Only	1
B2R825	Alpha-1,4 glucan phosphorylase	Biological Replicate 1 Only	1
P06733	Alpha-i,+ gidean phosphorylase	Biological Replicate 1 Only	2
L0R849	·	•	1
	Alternative protein EDARADD	Biological Replicate 1 Only	1
L8E9I3	Alternative protein TRIM67	Biological Replicate 1 Only	
L8E905	Alternative protein WDFY1	Biological Replicate 1 Only	1
P07355	Annexin A2	Biological Replicate 1 Only	2
P08758	Annexin A5	Biological Replicate 1 Only	1
B3KXW5	AP-1 complex subunit gamma	Biological Replicate 1 Only	1
A0A024R0X0	AP1 gamma subunit binding protein 1,	Biological Replicate 1 Only	1
F8WCH3	Apolipoprotein L1	Biological Replicate 1 Only	1
Q07812	Apoptosis regulator BAX	Biological Replicate 1 Only	1
B9EH95	Armadillo repeat gene deletes in velocardiofacial syndrome	Biological Replicate 1 Only	1
Q6NXE6	Armadillo repeat-containing protein 6	Biological Replicate 1 Only	1
A0A024RAI1	ARP3 actin-related protein 3 homolog	Biological Replicate 1 Only	1
Q6SPF0	Atherin	Biological Replicate 1 Only	1
O43313	ATM interactor	Biological Replicate 1 Only	1
V9HW31	ATP synthase subunit beta	Biological Replicate 1 Only	2
C9JTY4	ATP-binding cassette sub-family B	Biological Replicate 1 Only	- 1
Q14CR0	ATP-binding cassette, sub-family G, member 8	Biological Replicate 1 Only	1
A0A068W6H0	Basal cell adhesion molecule	Biological Replicate 1 Only	1
		o 1	•
P35613	Basigin	Biological Replicate 1 Only	2
Q9UE89	Beta-actin	Biological Replicate 1 Only	2
P50583	Bis-tetraphosphatase	Biological Replicate 1 Only	1
P80723	Brain acid soluble protein 1	Biological Replicate 1 Only	1
Q6QJE6	Breakpoint cluster region protein	Biological Replicate 1 Only	1
Q7KYR7	Butyrophilin subfamily 2 member A1	Biological Replicate 1 Only	1
E7EMB3	Calmodulin-2	Biological Replicate 1 Only	2
V9HW88	Calreticulin	Biological Replicate 1 Only	3
Q7L1S5	Carbohydrate sulfotransferase 9	Biological Replicate 1 Only	1
Q66K79	Carboxypeptidase Z	Biological Replicate 1 Only	1
Q8WXD9	Caskin-1	Biological Replicate 1 Only	1
P07339	Cathepsin D	Biological Replicate 1 Only	1
Q6NZI2	Caveolae-associated protein 1	Biological Replicate 1 Only	1
Q6P2H3	Centrosomal protein of 85 kDa	Biological Replicate 1 Only	1
Q8NA72	Centrosomal protein POC5	Biological Replicate 1 Only	1
P29973		•	1
	cGMP-gated cation channel alpha-1	Biological Replicate 1 Only	1
Q1RMC5	Claspin homolog	Biological Replicate 1 Only	
A0A087WVQ6	Clathrin heavy chain	Biological Replicate 1 Only	1
P08709	Coagulation factor VII	Biological Replicate 1 Only	1

Table S4. IC-FPOP oxidatively	modified proteins in N	MCF-10A Cells.
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Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q5TAT6	Collagen alpha-1 chain	Biological Replicate 1 Only	1
D6RFN0	COP9 signalosome complex subunit 4	Biological Replicate 1 Only	1
P35670	Copper-transporting ATPase 2	Biological Replicate 1 Only	1
A0A0D9SG04	Cordon-bleu protein-like 1	Biological Replicate 1 Only	1
Q5VU57	Cytosolic carboxypeptidase 6	Biological Replicate 1 Only	1
D6RGX7	DCN1-like protein 4	Biological Replicate 1 Only	1
Q96BY6	Dedicator of cytokinesis protein 10	Biological Replicate 1 Only	1
B7ZLJ0	DIAPH2 protein	Biological Replicate 1 Only	1
A0A1C7CYX9	Dihydropyrimidinase-related protein 2	Biological Replicate 1 Only	1
10EZ64	DNA primase large subunit	Biological Replicate 1 Only	1
P11388	DNA topoisomerase 2-alpha	Biological Replicate 1 Only	1
O14802	DNA-directed RNA polymerase III subunit RPC1	Biological Replicate 1 Only	1
Q9H596	Dual specificity protein phosphatase 21	Biological Replicate 1 Only	1
Q9C0G6	Dynein heavy chain 6, axonemal	Biological Replicate 1 Only	1
Q9HCl6	E3 SUMO-protein ligase KIAA1586	Biological Replicate 1 Only	1
P53804	E3 ubiquitin-protein ligase TTC3	Biological Replicate 1 Only	1
A0A0S2Z3L0	Electron-transfer-flavoprotein alpha polypeptide	Biological Replicate 1 Only	1
P49411	Elongation factor Tu, mitochondrial	Biological Replicate 1 Only	1
Q6PCB8	Embigin	Biological Replicate 1 Only	1
094919	Endonuclease domain-containing 1 protein	Biological Replicate 1 Only	1
Q5D1E8	Endoribonuclease ZC3H12A	Biological Replicate 1 Only	1
V9HW25	Epididymis secretory protein Li 273	Biological Replicate 1 Only	1
A0A024R3X4	Epididymis secretory sperm binding protein	Biological Replicate 1 Only	1
V9HWC2	Epididymis secretory sperm binding protein Li 67p	Biological Replicate 1 Only	1
V9HWB4	Epididymis secretory sperm binding protein Li 89n	Biological Replicate 1 Only	2
Q99645	Epididyinis secretory sperm binding protein Erosin Epiphycan	Biological Replicate 1 Only	1
O95073		Biological Replicate 1 Only	1
A0A024R321	Fibrinogen silencer-binding protein	a 1 ,	1
Q13467	Filamin B, beta , Frizzled-5	Biological Replicate 1 Only	1
		Biological Replicate 1 Only	1
Q53GS0	G protein-binding protein CRFG variant	Biological Replicate 1 Only	1
Q59ET0	Glucan, branching enzyme 1 variant	Biological Replicate 1 Only	1
Q5VZ30	Glutamate decarboxylase 2	Biological Replicate 1 Only	1
O15399	Glutamate receptor ionotropic, NMDA 2D	Biological Replicate 1 Only	1
P51790	H/Cl exchange transporter 3	Biological Replicate 1 Only	1
A0A024R3R4	HCG1984091,	Biological Replicate 1 Only	1
O43390	Heterogeneous nuclear ribonucleoprotein R	Biological Replicate 1 Only	1
A0A1X7SBS1	Heterogeneous nuclear ribonucleoprotein U	Biological Replicate 1 Only	1
Q6UWP5	HHSL751	Biological Replicate 1 Only	1
B2R4R0	Histone H4	Biological Replicate 1 Only	2
P16144	Integrin beta-4	Biological Replicate 1 Only	1
D3DUZ3	Interferon, gamma-inducible protein 16,	Biological Replicate 1 Only	1
A0A1B0GTI5	Interleukin-10 receptor subunit beta	Biological Replicate 1 Only	1
M0R2W5	Kallikrein-2	Biological Replicate 1 Only	1
A0A024RA36	KIAA0241,	Biological Replicate 1 Only	1
D3DRX6	Kinesin-like protein	Biological Replicate 1 Only	1
O15066	Kinesin-like protein KIF3B	Biological Replicate 1 Only	1
Q6ZMV9	Kinesin-like protein KIF6	Biological Replicate 1 Only	1
I6LFJ3	KIR3DS1	Biological Replicate 1 Only	1
1021 00		2.5logical replicate rolliy	·

GBM/20 Laccase domain-containing protein 1 Biclogical Replicate 1 Only 1 AGMW22PA8 Loukocyte immunoglobulin-like roceptor sublamily B member 1 Biclogical Replicate 1 Only 1 POI338 Loukocyte immunoglobulin-like roceptor sublamily B member 1 Biclogical Replicate 1 Only 1 AGMU22PA8 Lyaphosphaidlyseine lipses ABH012 Biclogical Replicate 1 Only 1 AGMU20PA Lyaphosphaidlyseine lipses ABH012 Biclogical Replicate 1 Only 1 AGMU20PA Lyaphosphaidlyseine lipses ABH012 Biclogical Replicate 1 Only 1 H10133 MAX gene essociated protein Biclogical Replicate 1 Only 1 FBID50 MHC class 1 anigen Biclogical Replicate 1 Only 1 FBID50 MHC class 1 anigen Biclogical Replicate 1 Only 2 ASZ177 Multant desmin Biclogical Replicate 1 Only 1 ASZ177 Myosin light cohin 4 Biclogical Replicate 1 Only 1 ASIG144 Myosin light cohin 4 Biclogical Replicate 1 Only 1 ASZ177 Myosin light cohin 4 Biclogical Replicate 1 Only 1 ASIG14 Myosin light cohin 4 Biclogical Replicate 1 Only 1 ASIG14 Myosin light cohin 4 Biclogical Replicate 1 Only 1 ASIG14	Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
F6TER3Laukocyte immunoglobulin-like receptor subfamily B member JBiological Replicate 1 Only1P00338Lysophosphathyserine lipase A BHD12Biological Replicate 1 Only1ADA140V/C9Lysophosphathyserine lipase A BHD12Biological Replicate 1 Only1H3BU53MAX gene-associated proteinBiological Replicate 1 Only1H3BU53MAX gene-associated proteinBiological Replicate 1 Only1F6IDX8MHC class I antigenBiological Replicate 1 Only1F6IDX8MHC class I antigenBiological Replicate 1 Only1ADA02G2IN42Mutorin6Biological Replicate 1 Only1ADA02G2IN42Myosin light chan 4Biological Replicate 1 Only1F12829Myosin light phate 4Biological Replicate 1 Only1G8LLA2Myosin light phate 4Biological Replicate 1 Only1ADA02G2IN42Myosin light phate 4Biological Replicate 1 Only1G8LKA2Myosin light phate 4Biological Replicate 1 Only1ADA0A0ANS79Nacardet complex subunit 3 phateBiological Replicate 1 Only1ADA0A0ANS70Nacardet complex subunit 3 phateBiological Repl	Q8IV20	Laccase domain-containing protein 1	Biological Replicate 1 Only	1
P00338 Licketie delyviogenses A chain Biological Replicate 1 Only 1 A0A140/UCG Liysophospholidysein [lapes ABIP12 Biological Replicate 1 Only 1 HA0A140/UCG Liysophospholidysein [lapes ABIP12 Biological Replicate 1 Only 1 H3BU53 MAX gene associated protein Biological Replicate 1 Only 1 F6IBS0 MHC class 1 antigen Biological Replicate 1 Only 1 F6IBS0 MHC class 1 antigen Biological Replicate 1 Only 1 A0A622M42 Mutani desmin Biological Replicate 1 Only 1 A0A62JN42 Mutani desmin Biological Replicate 1 Only 1 CB1242 Myosin light chain 4 Biological Replicate 1 Only 1 CB1242 Myosin light chain 4 Biological Replicate 1 Only 1 CB1244 Myosin light chain 4 Biological Replicate 1 Only 1 CB1244 Myosin light chain 4 Biological Replicate 1 Only 1 CB1244 Myosin light chain 4 Biological Replicate 1 Only 1 CB1243 Myosin light chain 4 Biological Replicate 1 Only 1 CB1243 Myosin light chain 4 Biological Replicate 1 Only 1 CB1243 Myosin light chain 4 Biological Replicate 1 Only 1 <t< td=""><td>A0A1W2PPA8</td><td>Leucine-, glutamate- and lysine-rich protein 1</td><td>Biological Replicate 1 Only</td><td>1</td></t<>	A0A1W2PPA8	Leucine-, glutamate- and lysine-rich protein 1	Biological Replicate 1 Only	1
QRN2K0Lysophosphilapse ABHD12Biological Replicate 1 Only1ADX140V/LC9Lysophosphilapse 11,Biological Replicate 1 Only1HBBU53MAX gene-associated proteinBiological Replicate 1 Only1FBI50MHC class I antigenBiological Replicate 1 Only1FBI50MHC class I antigenBiological Replicate 1 Only1FBI50MHC class I antigenBiological Replicate 1 Only1ADAG2LM2Muoin-6Biological Replicate 1 Only1ADAG2LM2Myosin light chan 4Biological Replicate 1 Only1P12229Myosin light chan 4Biological Replicate 1 Only1QA3181NADH delytogenase ionsulfur protein 4, mitochondrialBiological Replicate 1 Only1QA3181NADH delytogenase ionsulfur protein 4, mitochondrialBiological Replicate 1 Only1HOY1X3Nascer loytepride-8 subunit 8, mitochondrialBiological Replicate 1 Only1QA3181NADH delytogenase 1 thesa subunit 4, mitochondrialBiological Replicate 1 Only1QBVXH0Nesepin-2Biological Replicate 1 Only1QBVXH0	F6TER3	Leukocyte immunoglobulin-like receptor subfamily B member 1	Biological Replicate 1 Only	1
ADA140VLC2Lysophospholpase II.Biological Repicate 1 Only1H3BUS3MAX gen-associated proteinBiological Repicate 1 Only1PH035Metallaporteinase inhibitor 2Biological Repicate 1 Only1F6IB50MHC class I antigenBiological Repicate 1 Only1F6IB50MHC class I antigenBiological Repicate 1 Only1ADA0G2,IM42Mutoin-6Biological Repicate 1 Only2MARIABiological Repicate 1 Only2P12229Myosin light polypeptide 6Biological Repicate 1 Only1G8LN2Myosin light polypeptide 6Biological Repicate 1 Only1Od5169NADH dehydrogenase in Unito Novin 1Biological Repicate 1 Only1Od5169NADH dehydrogenase in unitochondrialBiological Repicate 1 Only1HOYHX9Nascent polypeptide-associated complex subunit 8, mitochondrialBiological Repicate 1 Only1HOYHX9Nascent polypeptide-associated complex subunit 8, mitochondrialBiological Repicate 1 Only1HOYHX9Nescent polypeptide-associated complex subunit 8, mitochondrialBiological Repicate 1 Only1Q3161NuADI dehydrogenase incomodulinBiological Repicate 1 Only1Q43767Neuropenic dfferentiatin factor 1Biological Repicate 1 Only1Q43863Offactory receptorBiological Repicate 1 Only1Q43863Polytical SchemaseBiological Repicate 1 Only1Q43863Polytical SchemaseBiological Repicate 1 Only1Q	P00338	L-lactate dehydrogenase A chain	Biological Replicate 1 Only	1
H38U53 MAX gene-associated protein Biological Replicate 1 Only 1 F61B50 MHC class I antigen Biological Replicate 1 Only 1 F61CX8 MHC class I antigen Biological Replicate 1 Only 1 AAAGC2.MA2 Mucin-6 Biological Replicate 1 Only 2 P12829 Myosin light chain 4 Biological Replicate 1 Only 1 Q8LLA2 Myosin light chain 4 Biological Replicate 1 Only 1 Q43181 NADH dehydrogenase 1 beaksocmptex subuut 8, mitochondrial Biological Replicate 1 Only 1 Q43181 NADH dehydrogenase 1 beaksocmptex subuut 8, mitochondrial Biological Replicate 1 Only 1 Q43181 NADH dehydrogenase 1 beaksocmptex subuut 8, mitochondrial Biological Replicate 1 Only 1 Q40X190 Nascent polyapidic-associated comptex subuut 8, mitochondrial Biological Replicate 1 Only 1 Q40A0MS79 Nascent polyapidic-associated protein 5 Biological Replicate 1 Only 1 Q40A0MS79 Necogenic differentiation factor 1 Biological Replicate 1 Only 1 Q40A0MS79 Necogenic differentiation factor 1 Biological Replicate 1 Only 1 Q40SOU1 Necoge	Q8N2K0	Lysophosphatidylserine lipase ABHD12	Biological Replicate 1 Only	1
P10035Metalfoproteinase inhibitor 2Biological Replicate 1 Only1F6IB50MHC diass I antigenBiological Replicate 1 Only1ADAG2.NM22Mucin-6Biological Replicate 1 Only2ADAG2.NM22Mucin-6Biological Replicate 1 Only2G8JLA2Myosin light chain 4Biological Replicate 1 Only1G8JLA2Myosin light chain 4Biological Replicate 1 Only1G95169NADH dehydrogenase 1 beta subcomplex subunit 8, michorodnrialBiological Replicate 1 Only1Od5169NADH dehydrogenase 1 beta subcomplex subunit 8, michorodnrialBiological Replicate 1 Only1Od5169NADH dehydrogenase 1 beta subcomplex subunit 8, michorodnrialBiological Replicate 1 Only1Od5169NADH dehydrogenase 1 beta subcomplex subunit 8, michorodnrialBiological Replicate 1 Only1Od3181NADAI OMMS79Nekasocided proteins 5Biological Replicate 1 Only1Q8WXH0Nasprin-2Biological Replicate 1 Only1Q8W2H0Nesprin-2Biological Replicate 1 Only1Q41314Q41314Olfactory receptorBiological Replicate 1 Only1Q42426Puesprin-2Biological Replicate 1 Only1Q42426Nucleoside diphosphate kinaseBiological Replicate 1 Only1Q42426Nucleoside diphosphate kinaseBiological Replicate 1 Only1Q42426PuesprintorinBiological Replicate 1 Only1Q425273Patalin-like prospholigase domain-containing protein 7	A0A140VJC9	Lysophospholipase II,	Biological Replicate 1 Only	1
F81050MHC class I antigenBicologica Replicate 1 Only1AAA03C2.IM22Mucin-6Bicologica Replicate 1 Only2P12829Myosin light chain 4Bicologica Replicate 1 Only1AA52217Mutant desminBicologica Replicate 1 Only1Q8JLA2Myosin light chain 4Bicologica Replicate 1 Only1Q8JLA2Myosin light chain 4Bicologica Replicate 1 Only1Q95169NADH dehydrogenaes 1 beatsBicologica Replicate 1 Only1Q45181NADH dehydrogenaes 1 beatsBicologica Replicate 1 Only1Q40A0MS79Necreassociated protein 5Bicologica Replicat	H3BU53	MAX gene-associated protein	Biological Replicate 1 Only	1
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A6NJV1Protein FAM166CBiological Replicate 1 Only1Q6ZV65Protein FAM47EBiological Replicate 1 Only1			.	·
Q6ZV65 Protein FAM47E Biological Replicate 1 Only 1			.	·
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Q86UY5 Protein FAM83A Biological Replicate 1 Only 1			.	
	Q86UY5	Protein FAM83A	Biological Replicate 1 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
K7EM46	Protein hinderin	Biological Replicate 1 Only	1
A0A024QZR3	Protein pelota homolog	Biological Replicate 1 Only	1
Q8TAB3	Protocadherin-19	Biological Replicate 1 Only	1
O60245	Protocadherin-7	Biological Replicate 1 Only	1
Q7RTM1	Proton channel OTOP1	Biological Replicate 1 Only	1
Q59EL4	PRPF4 protein variant	Biological Replicate 1 Only	1
A8MXQ7	utative IQ motif and ankyrin repeat domain-containing protein LOC6425	7 Biological Replicate 1 Only	1
A6NDY2	Putative protein FAM90A10P	Biological Replicate 1 Only	1
V9HWB8	Pyruvate kinase	Biological Replicate 1 Only	1
Q5R372	Rab GTPase-activating protein 1-like	Biological Replicate 1 Only	1
P36888	Receptor-type tyrosine-protein kinase FLT3	Biological Replicate 1 Only	1
B1APM2	Regulator of G-protein signalling 5,	Biological Replicate 1 Only	1
Q15293	Reticulocalbin-1	Biological Replicate 1 Only	1
A6NKG5	Retrotransposon-like protein 1	Biological Replicate 1 Only	1
A0A087WU09	Rootletin	Biological Replicate 1 Only	1
A0A1W2PPP7	Rotatin	Biological Replicate 1 Only	1
A8K2G0	Secretory carrier-associated membrane protein	Biological Replicate 1 Only	1
A0A0A0MQU6	Sema domain, transmembrane domain, and cytoplasmic domain, 6A,	Biological Replicate 1 Only	1
Q6UWB4	Serine protease 55	Biological Replicate 1 Only	1
A0A087WXA3	· · · · · · · · · · · · · · · · · · ·	o , , ,	1
	Serine/arginine repetitive matrix protein 3	Biological Replicate 1 Only	1
A0A1B0GTZ4	Serine/threonine-protein kinase DCLK3	Biological Replicate 1 Only	1
Q16513	Serine/threonine-protein kinase N2	Biological Replicate 1 Only	1
Q6P3R8	Serine/threonine-protein kinase Nek5	Biological Replicate 1 Only	1
Q9H4A3	Serine/threonine-protein kinase WNK1	Biological Replicate 1 Only	1
B5BTZ6	Signal transducer and activator of transcription	Biological Replicate 1 Only	1
Q59GK1	Solute carrier family 2, member 6 variant	Biological Replicate 1 Only	1
B7ZKT5	Son of sevenless homolog 2	Biological Replicate 1 Only	1
B5MBX0	Sororin	Biological Replicate 1 Only	1
A0A087WTE6	SRC kinase-signaling inhibitor 1	Biological Replicate 1 Only	1
Q3MIM1	STON1-GTF2A1L readthrough transcript	Biological Replicate 1 Only	1
P31948	Stress-induced-phosphoprotein 1	Biological Replicate 1 Only	1
O15400	Syntaxin-7	Biological Replicate 1 Only	1
A0A0C4DH28	T cell receptor gamma variable 4	Biological Replicate 1 Only	1
P82094	TATA element modulatory factor	Biological Replicate 1 Only	1
Q8NA31	Telomere repeats-binding bouquet formation protein 1	Biological Replicate 1 Only	1
A0A140VJQ4	Testicular tissue protein Li 130	Biological Replicate 1 Only	1
Q16495	Thyroid peroxidase	Biological Replicate 1 Only	1
A0A0A0MTS7	Titin	Biological Replicate 1 Only	2
P20290	Transcription factor BTF3	Biological Replicate 1 Only	1
H0YCZ6	Transcriptional enhancer factor TEF-1	Biological Replicate 1 Only	1
J3KNP2	Transducin beta-like protein 3	Biological Replicate 1 Only	1
P55072	Transitional endoplasmic reticulum ATPase	Biological Replicate 1 Only	1
Q2LD37	Transmembrane protein KIAA1109	Biological Replicate 1 Only	1
Q2QD09	Triosephosphate isomerase	Biological Replicate 1 Only	1
Q12816	Trophinin	Biological Replicate 1 Only	1
H7BYY1	Tropomyosin 1,	Biological Replicate 1 Only	1
A0A0S2Z4G4	Tropomyosin 3	Biological Replicate 1 Only	1
P67936	Tropomyosin alpha-4 chain	Biological Replicate 1 Only	2
101000		Biological replicate i Olly	۷.

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P13805	Troponin T, slow skeletal muscle	Biological Replicate 1 Only	1
B2R6L0	Tubulin beta chain	Biological Replicate 1 Only	1
P07437	Tubulin beta chain	Biological Replicate 1 Only	1
Q13509	Tubulin beta-3 chain	Biological Replicate 1 Only	3
P68371	Tubulin beta-4B chain	Biological Replicate 1 Only	1
Q9BUF5	Tubulin beta-6 chain	Biological Replicate 1 Only	2
K7EK43	Tubulin beta-6 chain	Biological Replicate 1 Only	1
Q6IBS0	Twinfilin-2	Biological Replicate 1 Only	1
A0A126LAX6	U30	Biological Replicate 1 Only	1
Q6ZU65	Ubinuclein-2	Biological Replicate 1 Only	1
Q8IYU4	Ubiquilin-like protein	Biological Replicate 1 Only	1
Q5UGI3	Ubiquitin C splice variant	Biological Replicate 1 Only	1
Q8N5J2	Ubiquitin carboxyl-terminal hydrolase MINDY-1	Biological Replicate 1 Only	1
A0A024RDB0	Ubiguitin-activating enzyme E1-like 2,	Biological Replicate 1 Only	1
Q15819	Ubiquitin-conjugating enzyme E2 variant 2	Biological Replicate 1 Only	1
Q3KQV9	UDP-N-acetylhexosamine pyrophosphorylase-like protein 1	Biological Replicate 1 Only	1
A0A1W2PQF2	Uncharacterized protein	Biological Replicate 1 Only	1
Q6NV74	Uncharacterized protein KIAA1211-like	Biological Replicate 1 Only	1
H3BMM1	Unconventional myosin-IXa	Biological Replicate 1 Only	1
J3QRI8	UPF0183 protein C16orf70	Biological Replicate 1 Only	1
B5LY69	Uridine monophosphate synthetase	Biological Replicate 1 Only	1
O75436	Vacuolar protein sorting-associated protein 26A	Biological Replicate 1 Only	1
A0A0S2Z4N8	Vasodilator-stimulated phosphoprotein	Biological Replicate 1 Only	1
P08670	Vasoullator-stimulated phosphoprotein	Biological Replicate 1 Only	4
P18206	Vinculin	Biological Replicate 1 Only	2
P11473	Vitamin D3 receptor	Biological Replicate 1 Only	2
Q15061	WD repeat-containing protein 43	Biological Replicate 1 Only	1
Q5GH72	XK-related protein 7	Biological Replicate 1 Only	1
O15015	Zinc finger protein 646	o , , ,	1
H7BZC4	28S ribosomal protein S9, mitochondrial	Biological Replicate 1 Only	1
C9IZN3	Actin-related protein 3C	Biological Replicate 2 Only Biological Replicate 2 Only	1
	•	U 1 <i>J</i>	1
O95996	Adenomatous polyposis coli protein 2	Biological Replicate 2 Only	1
L8EAF3	Alternative protein ZEB1	Biological Replicate 2 Only	1
Q9H310	Ammonium transporter Rh type B	Biological Replicate 2 Only	1
Q9UPQ3	Arf-GAP with GTPase	Biological Replicate 2 Only	1
O43150	Arf-GAP with SH3 domain	Biological Replicate 2 Only	1
A0A0S2Z3L2	ATPase Ca++ transporting cardiac muscle slow twitch 2	Biological Replicate 2 Only	1
O43918	Autoimmune regulator	Biological Replicate 2 Only	1
Q562R1	Beta-actin-like protein 2	Biological Replicate 2 Only	2
060716	Catenin delta-1	Biological Replicate 2 Only	1
P02452	Collagen alpha-1 chain	Biological Replicate 2 Only	5
A0A0S2Z3H5	Collagen type I alpha 2	Biological Replicate 2 Only	1
D3DRA2	Collagen, type XVII, alpha 1,	Biological Replicate 2 Only	1
P01024	Complement C3	Biological Replicate 2 Only	1
Q59EK7	CS0DF038YO05 variant	Biological Replicate 2 Only	1
Q13363	C tempinel his dine unstain 1	Biological Replicate 2 Only	1
	C-terminal-binding protein 1	Diological Replicate 2 Only	I
Q14204 B4DLA6	C-terminal-binding protein 1 Cytoplasmic dynein 1 heavy chain 1 DNA helicase	Biological Replicate 2 Only Biological Replicate 2 Only Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P49916	DNA ligase 3	Biological Replicate 2 Only	1
P78563	Double-stranded RNA-specific editase 1	Biological Replicate 2 Only	1
Q5T4S7	E3 ubiquitin-protein ligase UBR4	Biological Replicate 2 Only	1
E7ESC7	E3 ubiquitin-protein transferase MAEA	Biological Replicate 2 Only	1
V9HW22	Epididymis luminal protein 33	Biological Replicate 2 Only	2
J3KSS3	FYVE, RhoGEF and PH domain-containing protein 4	Biological Replicate 2 Only	1
O75140	GATOR complex protein DEPDC5	Biological Replicate 2 Only	1
P04406	Glyceraldehyde-3-phosphate dehydrogenase	Biological Replicate 2 Only	3
A0A024R2V1	HCG20123,	Biological Replicate 2 Only	1
Q5XTR9	Hemoglobin delta-beta fusion protein	Biological Replicate 2 Only	1
Q86YZ3	Hornerin	Biological Replicate 2 Only	1
Q6LBH2	HPX-6 protein	Biological Replicate 2 Only	1
Q86UW8	Hyaluronan and proteoglycan link protein 4	Biological Replicate 2 Only	1
Q9H0B3	IQ domain-containing protein N	Biological Replicate 2 Only	1
J3KR23	IST1 homolog	Biological Replicate 2 Only	1
A0A024R1X8	Junction plakoglobin,	Biological Replicate 2 Only	1
H6VRG1	Keratin 1	Biological Replicate 2 Only	12
P13645	Keratin, type I cytoskeletal 10	Biological Replicate 2 Only	11
P02533	Keratin, type I cytoskeletal 14	Biological Replicate 2 Only	4
Q04695	Keratin, type I cytoskeletal 17	Biological Replicate 2 Only	1
P35908	Keratin, type II cytoskeletal 2 epidermal	Biological Replicate 2 Only	4
P12035	Keratin, type II cytoskeletal 3	Biological Replicate 2 Only	1
P13647	Keratin, type II cytoskeletal 5	Biological Replicate 2 Only	2
P04259	Keratin, type II cytoskeletal 6B	Biological Replicate 2 Only	2
Q5XKE5	Keratin, type II cytoskeletal 79	Biological Replicate 2 Only	1
Q59EB0	Kinase insert domain receptor variant	Biological Replicate 2 Only	1
Q7Z4S6	Kinesin-like protein KIF21A	Biological Replicate 2 Only	1
P11047	Laminin subunit gamma-1	Biological Replicate 2 Only	2
Q96FE5	Leucine-rich repeat protein 1	Biological Replicate 2 Only	- 1
A0A0G2JNQ6	Leukocyte immunoglobulin-like receptor subfamily B member 1	Biological Replicate 2 Only	1
Q8N5K9	LOC645895 protein	Biological Replicate 2 Only	1
Q86XM6	LPPR4 protein	Biological Replicate 2 Only	1
O95983	Methyl-CpG-binding domain protein 3	Biological Replicate 2 Only	1
F6IR41	MHC class I antigen	Biological Replicate 2 Only	1
A0A0G2JMX7	Miccouss rangen Microtubule-associated protein	Biological Replicate 2 Only	1
A7UNU5	•	U 1 1	1
Q76KP1	Mutant electron-transferring flavoprotein dehydrogenase	Biological Replicate 2 Only	1
	/l-beta-glucosaminyl-glycoprotein 4-beta-N-acetylgalactosaminyltransfe	o 1	1
A0A087X1N7		Biological Replicate 2 Only	1
C6KE32	P2X purinoceptor	Biological Replicate 2 Only	1
O75781	Paralemmin-1	Biological Replicate 2 Only	1
O60664	Perilipin-3	Biological Replicate 2 Only	1
P0CG39	POTE ankyrin domain family member J	Biological Replicate 2 Only	1
Q07954	Prolow-density lipoprotein receptor-related protein 1	Biological Replicate 2 Only	1
Q5TDH0	Protein DDI1 homolog 2	Biological Replicate 2 Only	1
A0A024R8S5	Protein disulfide-isomerase	Biological Replicate 2 Only	2
Q14554	Protein disulfide-isomerase A5	Biological Replicate 2 Only	1
A0A024R8D6	Protein kinase N3,	Biological Replicate 2 Only	1
A0A1U9X972	PRRC2A	Biological Replicate 2 Only	1

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
Q5HY64	Putative protein FAM47C	Biological Replicate 2 Only	1
Q9BRP9	Putative uncharacterized protein MGC13053	Biological Replicate 2 Only	1
A0A024R136	Rac GTPase activating protein 1,	Biological Replicate 2 Only	1
Q86XE0	Sorting nexin-32	Biological Replicate 2 Only	1
A0A024R0N6	Spectrin beta chain	Biological Replicate 2 Only	1
Q7RTM4	Spectrin-like protein of the nuclear envelope and Golgi	Biological Replicate 2 Only	1
Q8NDV3	Structural maintenance of chromosomes protein 1B	Biological Replicate 2 Only	1
Q86US8	Telomerase-binding protein EST1A	Biological Replicate 2 Only	1
A0A0S2Z577	Vacuolar protein sorting 33-like protein B	Biological Replicate 2 Only	1
A0A024R4Q4	Zinc finger protein 329,	Biological Replicate 2 Only	1
Q3ZCX4	Zinc finger protein 568	Biological Replicate 2 Only	1
Q6ZN30	Zinc finger protein basonuclin-2	Biological Replicate 2 Only	1
P63220	40S ribosomal protein S21	Both Biological Replicates	4
P60709	Actin, cytoplasmic 1	Both Biological Replicates	6
P15144	Aminopeptidase N	Both Biological Replicates	8
V9HWP2	Epididymis luminal protein 35	Both Biological Replicates	2
D0PNI1	Epididymis luminal protein 4	Both Biological Replicates	2
P09382	Galectin-1	Both Biological Replicates	4
Q59EJ3	Heat shock 70kDa protein 1A variant	Both Biological Replicates	2
A0A024RD80	Heat shock protein 90kDa alpha , class B member 1,	Both Biological Replicates	2
P35527	Keratin, type I cytoskeletal 9	Both Biological Replicates	20
A0A024R1N1	Myosin, heavy polypeptide 9, non-muscle,	Both Biological Replicates	4
Q09666	Neuroblast differentiation-associated protein AHNAK	Both Biological Replicates	6
P06703	Protein S100-A6	Both Biological Replicates	4
Q6FG99	RPLP1 protein	Both Biological Replicates	2
P37802	Transgelin-2	Both Biological Replicates	10

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptid
Q86TU7	Actin-histidine N-methyltransferase	Biological Replicate 1 Only	1
Q59EC0	Adenosine deaminase	Biological Replicate 1 Only	1
Q59HB5	Alpha 1 type XI collagen	Biological Replicate 1 Only	1
Q86UK0	ATP-binding cassette sub-family A member 12	Biological Replicate 1 Only	1
P21854	B-cell differentiation antigen CD72	Biological Replicate 1 Only	1
P07686	Beta-hexosaminidase subunit beta	Biological Replicate 1 Only	1
A6XGM4	BORIS transcription factor transcript variant C5	Biological Replicate 1 Only	1
Q5SW79	Centrosomal protein of 170 kDa	Biological Replicate 1 Only	1
Q59EM3	Chimerin 1 variant	Biological Replicate 1 Only	1
Q17RW2	Collagen alpha-1 chain	Biological Replicate 1 Only	1
P02452	Collagen alpha-1 chain	Biological Replicate 1 Only	1
D9ZGF2	Collagen	Biological Replicate 1 Only	1
Q6FHS1	CTSF protein	Biological Replicate 1 Only	1
Q14195	•	3 . ,	
	Dihydropyrimidinase-related protein 3	Biological Replicate 1 Only	1
P78325	Disintegrin and metalloproteinase domain-containing protein 8	Biological Replicate 1 Only	1
A0A0A8J1J7	Dual oxidase 2	Biological Replicate 1 Only	1
075592	E3 ubiquitin-protein ligase MYCBP2	Biological Replicate 1 Only	1
A0A087WTW0	E3 ubiquitin-protein ligase UHRF1	Biological Replicate 1 Only	1
Q8N3D4	EH domain-binding protein 1-like protein 1	Biological Replicate 1 Only	1
B5MCA4	Epithelial cell adhesion molecule	Biological Replicate 1 Only	1
Q86WI1	Fibrocystin-L	Biological Replicate 1 Only	1
Q6ZNL6	FYVE	Biological Replicate 1 Only	1
Q6LD43	GA protein	Biological Replicate 1 Only	1
Q14749	Glycine N-methyltransferase	Biological Replicate 1 Only	1
Q5VSG8	Glycoprotein endo-alpha-1	Biological Replicate 1 Only	1
Q75T13	GPI inositol-deacylase	Biological Replicate 1 Only	1
A0A024R5X2	HCG2001986	Biological Replicate 1 Only	1
A0A024R962	HCG40889	Biological Replicate 1 Only	1
E7ERX0	Histone-lysine N-methyltransferase MECOM	Biological Replicate 1 Only	1
Q6NW39	Homeobox domain-containing protein	Biological Replicate 1 Only	1
P16144	Integrin beta-4	Biological Replicate 1 Only	1
P11047	Laminin subunit gamma-1	Biological Replicate 1 Only	1
Q6UWW0	•	a . ,	
	Lipocalin-15	Biological Replicate 1 Only	1
J7F572	MHC class I antigen	Biological Replicate 1 Only	1
019649	MHC class I antigen	Biological Replicate 1 Only	1
P26038	Moesin	Biological Replicate 1 Only	1
A0A024R071	Nucleoporin 155kDa	Biological Replicate 1 Only	1
Q9ULE6	Paladin	Biological Replicate 1 Only	1
Q13219	Pappalysin-1	Biological Replicate 1 Only	1
Q7Z738	Supplementary Table 5. IC-FPOP oxidatively modified proteins in MCF-7 Cells.	Biological Replicate 1 Only	1
P30041	Peroxiredoxin-6	Biological Replicate 1 Only	1
O60346	PH domain leucine-rich repeat-containing protein phosphatase 1	Biological Replicate 1 Only	1
A6MW40	PKDREJ	Biological Replicate 1 Only	1
Q5JS98	Pre-B-cell leukemia transcription factor 3	Biological Replicate 1 Only	1
P0C7U0	Protein ELFN1	Biological Replicate 1 Only	1
Q05655	Protein kinase C delta type	Biological Replicate 1 Only	1
P49593	Protein phosphatase 1F /calmodulin-dependent protein kinase phosphatase	Biological Replicate 1 Only	1
Q70YC5	Protein ZNF365	Biological Replicate 1 Only	1
A0A1B0GTZ2		a 1	
	Putative coiled-coil domain-containing protein 196	Biological Replicate 1 Only	1
B1APH4	Putative zinc finger protein 487	Biological Replicate 1 Only	1
A0A024R3K2	RNA pseudouridylate synthase domain containing 4	Biological Replicate 1 Only	1

Table S5. IC-FPOP oxidatively modified proteins in MCF-7 Cells.

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
A0A087X080	Ryanodine receptor 3	Biological Replicate 1 Only	1
Q13591	Semaphorin-5A	Biological Replicate 1 Only	1
P51957	Serine/threonine-protein kinase Nek4	Biological Replicate 1 Only	1
A0A096LP01	Small integral membrane protein 26	Biological Replicate 1 Only	1
P78524	Suppression of tumorigenicity 5 protein	Biological Replicate 1 Only	1
E9PJ55	T-complex protein 11-like protein 1	Biological Replicate 1 Only	1
A0A024R2Y2	Testicular tissue protein Li 201	Biological Replicate 1 Only	1
Q14232	Translation initiation factor eIF-2B subunit alpha	Biological Replicate 1 Only	1
Q8N3T6	Transmembrane protein 132C	Biological Replicate 1 Only	1
F5H0Q0	tRNA-dihydrouridine synthase -like	Biological Replicate 1 Only	-
A0A1B0GUA9	Uncharacterized protein C13orf46	Biological Replicate 1 Only	1
Q5T5N4	Uncharacterized protein C6orf118	Biological Replicate 1 Only	1
Q68DQ2	Very large A-kinase anchor protein	Biological Replicate 1 Only	1
Q6AHZ1	Zinc finger protein 518A	Biological Replicate 1 Only	1
Q8TC21	Zinc finger protein 596	Biological Replicate 1 Only	1
P31946	14-3-3 protein beta/alpha	Biological Replicate 2 Only	1
P27348	14-3-3 protein beta/aipha	Biological Replicate 2 Only	1
P68032	Actin	Biological Replicate 2 Only	1
Q8N3C0	Activating signal cointegrator 1 complex subunit 3	Biological Replicate 2 Only Biological Replicate 2 Only	1
A8K1F6	Adenosine receptor A2	v	1
	•	Biological Replicate 2 Only	
LOR849	Alternative protein EDARADD	Biological Replicate 2 Only	1
L8E905	Alternative protein WDFY1	Biological Replicate 2 Only	1
B3KXW5	AP-1 complex subunit gamma	Biological Replicate 2 Only	1
Q07812	Apoptosis regulator BAX	Biological Replicate 2 Only	1
A0A024RAI1	ARP3 actin-related protein 3 homolog	Biological Replicate 2 Only	1
Q6SPF0	Atherin	Biological Replicate 2 Only	1
O43313	ATM interactor	Biological Replicate 2 Only	1
P25705	ATP synthase subunit alpha	Biological Replicate 2 Only	1
Q7L1S5	Carbohydrate sulfotransferase 9	Biological Replicate 2 Only	1
Q8WXD9	Caskin-1	Biological Replicate 2 Only	1
P07339	Cathepsin D	Biological Replicate 2 Only	1
Q6NZI2	Caveolae-associated protein 1	Biological Replicate 2 Only	1
Q6P2H3	Centrosomal protein of 85 kDa	Biological Replicate 2 Only	1
P29973	cGMP-gated cation channel alpha-1	Biological Replicate 2 Only	1
Q1RMC5	Claspin homolog	Biological Replicate 2 Only	1
Q5TAT6	Collagen alpha-1 chain	Biological Replicate 2 Only	1
P35670	Copper-transporting ATPase 2	Biological Replicate 2 Only	1
A0A0D9SG04	Cordon-bleu protein-like 1	Biological Replicate 2 Only	1
B7ZLJ0	DIAPH2 protein	Biological Replicate 2 Only	1
A0A1C7CYX9	Dihydropyrimidinase-related protein 2	Biological Replicate 2 Only	1
P11388	DNA topoisomerase 2-alpha	Biological Replicate 2 Only	1
Q9H596	Dual specificity protein phosphatase 21	Biological Replicate 2 Only	1
Q9C0G6	Dynein heavy chain 6	Biological Replicate 2 Only	1
Q9HCI6	E3 SUMO-protein ligase KIAA1586	Biological Replicate 2 Only	1
P53804	E3 ubiguitin-protein ligase TTC3	Biological Replicate 2 Only	1
A0A0S2Z3L0	Electron-transfer-flavoprotein alpha polypeptide	Biological Replicate 2 Only	1
V9HWP2	Epididymis luminal protein 35	Biological Replicate 2 Only	4
D0PNI1	Epididymis luminal protein 4	Biological Replicate 2 Only	1
V9HW25	Epididymis secretory protein Li 273	Biological Replicate 2 Only	1
V9HWC2	Epididymis secretory sperm binding protein Li 67p	Biological Replicate 2 Only	1
V9HWB4	Epididymis secretory sperm binding protein Li 89n	Biological Replicate 2 Only	1
Q99645	Epididyinis secretory sperin binding protein Er osh	Biological Replicate 2 Only	1
O95073	Fibrinogen silencer-binding protein	Biological Replicate 2 Only	1
000010		Biological replicato 2 Only	*

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
A0A024R321	Filamin B	Biological Replicate 2 Only	1
Q53GS0	G protein-binding protein CRFG variant	Biological Replicate 2 Only	1
P09382	Galectin-1	Biological Replicate 2 Only	1
Q5VZ30	Glutamate decarboxylase 2	Biological Replicate 2 Only	1
Q59EJ3	Heat shock 70kDa protein 1A variant	Biological Replicate 2 Only	2
A0A024RD80	Heat shock protein 90kDa alpha	Biological Replicate 2 Only	1
O43390	Heterogeneous nuclear ribonucleoprotein R	Biological Replicate 2 Only	1
A0A1X7SBS1	Heterogeneous nuclear ribonucleoprotein U	Biological Replicate 2 Only	1
Q6UWP5	HHSL751	Biological Replicate 2 Only	1
D3DUZ3	Interferon	Biological Replicate 2 Only	1
P35527	Keratin	Biological Replicate 2 Only	1
Q8IV20	Laccase domain-containing protein 1	Biological Replicate 2 Only	1
A0A1W2PPA8	Leucine-	Biological Replicate 2 Only	1
A5Z217	Mutant desmin	Biological Replicate 2 Only	1
P24844	Myosin regulatory light polypeptide 9	Biological Replicate 2 Only	1
H0YHX9	Nascent polypeptide-associated complex subunit alpha	Biological Replicate 2 Only	1
Q8WXH0	Nesprin-2	Biological Replicate 2 Only	1
Q13562	Neurogenic differentiation factor 1	Biological Replicate 2 Only	1
P17677	Neuromodulin	Biological Replicate 2 Only	1
Q6ZV29	Patatin-like phospholipase domain-containing protein 7	Biological Replicate 2 Only	1
Q06830	Peroxiredoxin-1	Biological Replicate 2 Only	-
Q53G35	Phosphoglycerate mutase	Biological Replicate 2 Only	1
Q15365	Poly-binding protein 1	Biological Replicate 2 Only	1
P07737	Profilin-1	Biological Replicate 2 Only	2
P46013	Proliferation marker protein Ki-67	Biological Replicate 2 Only	- 1
Q15084	Protein disulfide-isomerase A6	Biological Replicate 2 Only	1
Q6ZV65	Protein FAM47E	Biological Replicate 2 Only	1
P06703	Protein S100-A6	Biological Replicate 2 Only	1
Q8TAB3	Protocadherin-19	Biological Replicate 2 Only	1
O60245	Protocadherin-7	Biological Replicate 2 Only	1
A6NDY2	Putative protein FAM90A10P	Biological Replicate 2 Only	1
V9HWB8	Pyruvate kinase	Biological Replicate 2 Only	1
Q6FG99	RPLP1 protein	Biological Replicate 2 Only	1
A0A087WXA3	Serine/arginine repetitive matrix protein 3	Biological Replicate 2 Only	1
A0A1B0GTZ4	Serine/threonine-protein kinase DCLK3	Biological Replicate 2 Only	1
Q9H4A3	Serine/threonine-protein kinase WNK1	Biological Replicate 2 Only	1
B7ZKT5	Son of sevenless homolog 2	Biological Replicate 2 Only	1
B5MBX0	Sororin	Biological Replicate 2 Only	1
P31948	Stress-induced-phosphoprotein 1	Biological Replicate 2 Only	1
O15400	Syntaxin-7	Biological Replicate 2 Only	1
A0A0C4DH28	T cell receptor gamma variable 4	Biological Replicate 2 Only	1
P82094	TATA element modulatory factor	Biological Replicate 2 Only	1
J3KNP2	Transducin beta-like protein 3	Biological Replicate 2 Only	1
P55072	Transitional endoplasmic reticulum ATPase -ATPase p97 subunit	Biological Replicate 2 Only	1
H7BYY1	Tropomyosin 1	Biological Replicate 2 Only	1
B2R6L0	Tubulin beta chain	Biological Replicate 2 Only	1
Q13509	Tubulin beta-3 chain	Biological Replicate 2 Only	3
Q9BUF5	Tubulin beta-6 chain	Biological Replicate 2 Only	2
K7EK43	Tubulin beta-6 chain	Biological Replicate 2 Only	2
Q6IBS0	Twinfilin-2	Biological Replicate 2 Only	1
Q5UGI3	Ubiquitin C splice variant	Biological Replicate 2 Only	1
Q15819	Ubiquitin-conjugating enzyme E2 variant 2	Biological Replicate 2 Only	1
P18206	Vinculin	Biological Replicate 2 Only	1
F TOZOU	VIIGUIII	biological Replicate 2 Offy	Z

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
P55036	26S proteasome non-ATPase regulatory subunit 4	Both Biological Replicates	2
F2Z340	2-amino-3-ketobutyrate coenzyme A ligase	Both Biological Replicates	2
Q9H0U6	39S ribosomal protein L18	Both Biological Replicates	2
P63220	40S ribosomal protein S21	Both Biological Replicates	3
P23396	40S ribosomal protein S3	Both Biological Replicates	2
P60709	Actin	Both Biological Replicates	3
A0A0S2Z5W7	Acyl-CoA binding domain containing 4	Both Biological Replicates	2
Q9HDC9	Adipocyte plasma membrane-associated protein	Both Biological Replicates	2
P06733	Alpha-enolase	Both Biological Replicates	5
L8E9I3	Alternative protein TRIM67	Both Biological Replicates	2
P15144	Aminopeptidase N	Both Biological Replicates	5
Q6ZTN6	Ankyrin repeat domain-containing protein 13D	Both Biological Replicates	2
P07355	Annexin A2	Both Biological Replicates	4
V9HW31	ATP synthase subunit beta	Both Biological Replicates	5
A0A024R5H0	Barrier to autointegration factor 1	Both Biological Replicates	2
P35613	Basigin	Both Biological Replicates	3
A7XZE4	Beta tropomyosin	Both Biological Replicates	2
Q9UE89	Beta-actin	Both Biological Replicates	3
P07814	Bifunctional glutamate/prolinetRNA ligase	Both Biological Replicates	2
P80723	Brain acid soluble protein 1	Both Biological Replicates	2
H0YAH7	Bromodomain-containing protein 8	Both Biological Replicates	2
E7EMB3	Calmodulin-2	Both Biological Replicates	3
A0A0C4DGQ5	Calpain small subunit 1	Both Biological Replicates	2
P51911	Calponin-1	Both Biological Replicates	2
V9HW88	Calreticulin	Both Biological Replicates	4
B2CIS9	Caspase 14	Both Biological Replicates	4
A0A024R5K1	Coronin	Both Biological Replicates	2
P0C869	Cytosolic phospholipase A2 beta	Both Biological Replicates	2
O43175	D-3-phosphoglycerate dehydrogenase	Both Biological Replicates	2
P33316	Deoxyuridine 5'-triphosphate nucleotidohydrolase	Both Biological Replicates	2
Q08554	Desmocollin-1	Both Biological Replicates	2
P36957	ydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase comp	Both Biological Replicates	2
A0A1B0GTX1	Dynamin-binding protein	Both Biological Replicates	2
Q53G85	Elongation factor 1-alpha	Both Biological Replicates	2
Q9Y6I0	Endogenous retrovirus group K member 6	Both Biological Replicates	2
V9HW22	Epididymis luminal protein 33	Both Biological Replicates	2
A0A024R3X4	Epididymis secretory sperm binding protein	Both Biological Replicates	3
P56537	Eukaryotic translation initiation factor 6 GCN homolog	Both Biological Replicates	2
O15540	Fatty acid-binding protein	Both Biological Replicates	2
Q2NNQ8	FER-1-like protein 4	Both Biological Replicates	2
Q9NVK5	FGFR1 oncogene partner 2	Both Biological Replicates	2
P21333	Filamin-A	Both Biological Replicates	2
O75369	Filamin-B	Both Biological Replicates	2
P04406	Glyceraldehyde-3-phosphate dehydrogenase	Both Biological Replicates	4
A0A0J9YX86	Golgin subfamily A member 8Q	Both Biological Replicates	2
Q9HAV7	GrpE protein homolog 1	Both Biological Replicates	2
B2RTU6	HCG1981012	Both Biological Replicates	2
P07900	Heat shock protein HSP 90-alpha	Both Biological Replicates	2
P61978	Heterogeneous nuclear ribonucleoprotein K	Both Biological Replicates	2
A0A087X0X3	Heterogeneous nuclear ribonucleoprotein M	Both Biological Replicates	2
B2R4R0	Histone H4	Both Biological Replicates	3
Q9Y471	Inactive cytidine monophosphate-N-acetylneuraminic acid hydroxylase	Both Biological Replicates	2
Q9BZV3	Interphotoreceptor matrix proteoglycan 2	Both Biological Replicates	2

Uniprot ID	Protein Name	Biological Replicate	Number of Modified Peptides
M0R2W5	Kallikrein-2	Both Biological Replicates	2
H6VRG1	Keratin 1	Both Biological Replicates	2
P05783	Keratin	Both Biological Replicates	2
P08727	Keratin	Both Biological Replicates	8
P08729	Keratin	Both Biological Replicates	2
P05787	Keratin	Both Biological Replicates	6
P00338	L-lactate dehydrogenase A chain	Both Biological Replicates	3
A0A024R4K3	Malate dehydrogenase	Both Biological Replicates	2
Q9NR99	Matrix-remodeling-associated protein 5	Both Biological Replicates	2
G8JLA2	Myosin light polypeptide 6	Both Biological Replicates	3
A0A024R1N1	Myosin	Both Biological Replicates	3
P29966	Myristoylated alanine-rich C-kinase substrate	Both Biological Replicates	2
O94760	N	Both Biological Replicates	2
Q09666	Neuroblast differentiation-associated protein AHNAK	Both Biological Replicates	7
Q32Q12	Nucleoside diphosphate kinase	Both Biological Replicates	2
B0FTY2	NudC-like protein	Both Biological Replicates	2
A8K486	Peptidyl-prolyl cis-trans isomerase	Both Biological Replicates	2
V9HWF4	Phosphoglycerate kinase	Both Biological Replicates	2
P02545	Prelamin-A/C	Both Biological Replicates	7
P26196	Probable ATP-dependent RNA helicase DDX6	Both Biological Replicates	2
P25786	Proteasome subunit alpha type-1	Both Biological Replicates	2
Q9UKY7	Protein CDV3 homolog	Both Biological Replicates	2
Q9NTK1	Protein DEPP1	Both Biological Replicates	2
V9HVY3	Protein disulfide-isomerase	Both Biological Replicates	4
A0A024R8S5	Protein disulfide-isomerase	Both Biological Replicates	2
Q7Z4L9	Protein phosphatase 1 regulatory subunit 42	Both Biological Replicates	2
Q92734	Protein TFG	Both Biological Replicates	2
A6NC97	Putative protein FAM172B	Both Biological Replicates	2
Q5T035	Putative uncharacterized protein C9orf129	Both Biological Replicates	2
P11177	Pyruvate dehydrogenase E1 component subunit beta	Both Biological Replicates	2
Q96Q15	Serine/threonine-protein kinase SMG1	Both Biological Replicates	2
F8W1A0	Serine/threonine-protein phosphatase PP1-gamma catalytic subunit	Both Biological Replicates	2
Q7RTN6	STE20-related kinase adapter protein alpha	Both Biological Replicates	2
Q53G55	TNF receptor-associated protein 1 variant	Both Biological Replicates	2
P37802	Transgelin-2	Both Biological Replicates	9
P29401	Transketolase	Both Biological Replicates	3
A0A024R9Z1	Transmembrane protein 106B	Both Biological Replicates	2
B7Z596	Tropomyosin alpha-1 chain	Both Biological Replicates	2
P67936	Tropomyosin alpha-4 chain	Both Biological Replicates	2 3
F5H5D3	Tubulin alpha chain	Both Biological Replicates	2
P07437	Tubulin beta chain	Both Biological Replicates	2
P68371	Tubulin beta-4B chain	Both Biological Replicates	3
O43399	Tumor protein D54	Both Biological Replicates	
		a .	2
Q9UF64 P08670	Uncharacterized protein DKFZp434E199 Vimentin	Both Biological Replicates	2
		Both Biological Replicates	6
P16989 O15015	Y-box-binding protein 3	Both Biological Replicates	2 2
015015	Zinc finger protein 646	Both Biological Replicates	2

Table S6. Oxidatively modified peptides and residues in the fractionated and unfractionated CHO cell samples.

Protein		Fractionated		Unfractionated		
	Peptide	Sequence	Modified Residues	Peptide	Sequence	Modified Residues
Coil	1-10	MMEAKFYEEK	E3; E8		•	
	24-33	LHSAVAEMEK	H2; E7; E9			
	41-56	RHTETIQELLEDTNMR	H2			
	42-56	HTETIQELLEDTNMR	E7; E10			
	130-140	EKEHLASDYEK	E1; E3; D8; H4			
	149-157	YDSDLNLLK	D2			
	198-207	DQENKFHMER	E3; E9			
	203-211	FHMERNHLK	H7			
	208-216	NHLKHTYDK	H2; H5			
	217-227			217-227	KVHELQSELDK	H3; L5; L9
	218-229	VHELQSELDKEK	E11			
	247-258	EEQLSRMTEVQR	E1; E2			
	259-272	SQAQQADAALEEFK	D7; E11			
	274-287	QVEVNSEKVYAEMK	E12			
	331-348	LEHEQEKTHLLQQHNAEK	H3; H9; H14			
	349-357	DSLVRDHER	H7; E8			
	354-364	DHEREIENLEK	D1;E5; E7			
	365-381	QLRAANMEHENQIQESK	H9			
	368-381	AANMEHENQIQESK	H6; E12			
	383-393	RDAQPWRPFCK	D2			
BiP	541-553	MVNDAEKFAEEDK	E10; E11			
Actin						
	69-95	YPIEHGIVTNWDDMEKIW HHTFYNELR	13; 17; 18			
	96-113	VAPEEHPVLLTEAPLNPK	A2; E12; E4; E5; H6; L10; P3; P7; V1; V8			
	148-178			148-178	TTGIVMDSGDGV THTVPIYEGYALP HAILR	D10; D7; H14; I4; M6; V12; V16; V5
	197-206	GYSFTTTAER	Y2; F4			
	291-312	KDLYANTVLSGGTTMYPG IADR	L9; M15; Y16; R22			
	292-312	DLYANTVLSGGTTMYPGI ADR	L8; M14; N5; V7	292-312	DLYANTVLSGGT TMYPGIADR	M14
	360-372	QEYDESGPSIVHR	D4; E5; Y3			
	360-373	QEYDESGPSIVHRK	Y3; D4	360-373	QEYDESGPSIVH RK	H12

Uniprot ID of Proteins in Common	Protein Name	Unfactionated Peptide Number Modified	Fractionated Number of Peptides Modified
G3IFZ0	Antigen KI-67	1	43
G3l488	Eukaryotic translation initiation factor	1	27
G3HN02	tRNA guanylyltransferase	2	24
	Phosphatidylinositol 3,4,5-trisphosphate-dependent Rac		
G3H4S1	exchanger 1	1	20
G3HXJ8	Choline/ethanolaminephosphotransferase 1	1	19
	Constitutive coactivator of peroxisome proliferator-activated		
G3H9V2	receptor gamma	1	19
G3GZB3	Pre-mRNA-splicing factor SYF1	1	19
G3HXE4	Calcium release-activated calcium channel	1	18
G3H718	Kyphoscoliosis peptidase	1	16
G3H3B4	Rho guanine nucleotide exchange factor 17	1	12
G3H1K9	Alphafucosyltransferase	2	10
G3GZ90	Cartilage intermediate layer	1	10
G3HE04	TKTL2	1	10
G3H2N7	Cordon-bleu	2	9
G3HYU7	Flt3-interacting zinc finger	1	9
G3HWC3	FOXR2	3	8
G3HN72	NET1	1	8
G3GU05	Peptidyl-tRNA hydrolase 2, mitochondrial	1	8
G310S4	Regulating synaptic membrane exocytosis	1	8
G3H1V7	Actin, cytoplasmic 2	3	7
G3I3A0	Complement component C8 gamma chain	1	7
G3H3W4	LATS2	1	7
G3GU92	MMP21	2	7
G3HF72	Nicotinamide phosphoribosyltransferase	1	7
G3HYT6	tRNA-specific adenosine deaminase 2	1	7
G3IF65	Apical endosomal glyco	1	6
G3HHR6	Calpain 11	1	6
G3GVZ4	Cell division cycle and apoptosis regulator	1	6
G3HWV8	S-methyl-5'-thioadenosine phosphorylase	1	6
G3HGA3	Smoothelin	1	6
G3H8R0	Spatacsin	3	6
G319Q8	Thyrotropin-releasing hormone-degrading ectoenzyme	1	6
G3HWK8	All-trans-retinol 13,14-reductase	1	5
G3HSL4	Eukaryotic translation initiation factor 4 gamma 3	2	5
G3H884	Limbin	1	5
G3HTA4	MEN1	1	5
G3HYJ9	Neurogenic locus notch homolog	2	5
G3HZU7	Pre-mRNA-processing factor 6	1	5
G3HIP2	Putative phospholipid-transporting ATPase IM	2	5
G3GSH2	Salivary plasminogen activator alpha 2	1	5
G3HPA2	Suppressor of tumorigenicity	1	5
G3GVD0	Activation-induced cytidine deaminase	2	4
G3HDZ3	A-kinase anchor	1	4
G3HZA3	Lactation elevated	1	4
G3HSE4	Rapamycin-insensitive companion of mTOR	1	4
G3IAG4	RP1L1	3	4
G3HGF4	Transcription factor 12	- 1	4
G3GXT2	Calcium-independent phospholipase A2-gamma	1	3
G3GRX6	Carbonic anhydrase 3	1	3
G3HG60	Fibrillin-1	1	3
			-

Table S7. Peptide modifications per protein oxidatively modified in CHO fractionated and non-fractionated samples.

Uniprot ID of Proteins in Common	Protein Name	Unfactionated Peptide Number Modified	Fractionated Number of Peptides Modified
G3HDG3	Palladin	1	3
G3H6T0	Cysteine and histidine-rich	1	2
G317J6	Glycerol-3-phosphate dehydrogenase	2	2
G3IAS7	Glyco	1	2
G3GRY1	ITFG3	1	2
G3HCG3	Pre-mRNA-splicing factor SYF2	1	2
G3H2J8	Sodium/hydrogen exchanger	4	2
G3HSZ4	TNFAIP3-interacting	1	2
G3I8B9	ARFIP2	1	1
Q9ERF7	L-dopachrome tautomerase	11	1
G3HYW2	Murinoglobulin-1	1	1
G3GWT5	Nucleoside diphosphate-linked moiety X motif 6	2	1
G3GYJ4	Ras-specific guanine nucleotide-releasing factor 1	1	1