

Table S17: Acetylated N-termini identified in the TAILS experiment comparing wild-type and Ctsl^{-/-} skin (replicate 1). Up to two potential protein IDs per peptide are stated.

Non Prime Site	Prime Site	Modifications	Hyperscore	Mass error in ppm	Charge	Precursor neutral mass in Da	Fold change (log ₂) of ASAPRatio	FC-error of ASAPRatio	Uniprot ID 1	Uniprot ID 2	Protein Name 1	Protein Name 2
MAA	AAAAAAAAGAGRSGPGRR	N-ter + 42.01 Da	44.8	45.8	3	1764.99	n.d.	n.d.	PABP2_MOUSE		Polyadenylate-binding protein 2;	Nuclear poly(A)-binding protein I;Poly(A)-binding protein II;Polyadenylate-binding nuclear protein 1;
AAAAAVAAA	AAAAAAEPPASGTTKR	N-ter + 42.01 Da, K +34.06 Da	37.3	28.3	3	1778.99	-1.43	0.23	ALKB5_MOUSE		Probable alpha-ketoglutarate-dependent dioxygenase ABH5;	Alkylated DNA repair protein alkB homolog 5;
M	AAAAGAVVASAASGPAEGKITELR	N-ter + 42.01 Da, K +28.03 Da N-ter + 42.01 Da, K +28.03 Da, C	70.0	46.7	3	2393.44	1.14	0.41	SLTM_MOUSE		SAFB-like transcription modulator;	Modulator of estrogen-induced transcription;SAF-like transcription modulator;
M	AAAKDGCLETAAGNGR	+57.02 Da	53.1	42.3	3	1687.87	0.16	0.02	FPD3_MOUSE	Q3TIR6_MOUSE	Prefoldin subunit 3;	Von Hippel-Lindau-binding protein 1;
M	AAAKAVLGPLVGAVDQTSSTR	N-ter + 42.01 Da, K +28.03 Da	40.1	56.6	4	2294.43	0.30	0.03	GLPK_MOUSE	B1ASZ3_MOUSE	Glycerol kinase;	ATP:glycerol 3-phosphotransferase;
M	AAAMDVTPSGTNSGAGKKR	N-ter + 42.01 Da, K +28.03 Da	49.6	47.0	3	2031.10	-0.01	0.01	RBX1_MOUSE		E3 ubiquitin-protein ligase RBX1;	RING finger protein 75;RING-box protein 1;
M	AAAPATLADPQPQEKQKDASESSELSR	N-ter + 42.01 Da, K +28.03 Da	34.0	48.8	4	3035.69	1.44	0.62	RABE2_MOUSE		Rab GTPase-binding effector protein 2;	Rabaptin-5beta;
M	AAATASSALKR	N-ter + 42.01 Da, K +28.03 Da	38.0	25.8	2	1115.66	-0.92	0.07	COG1_MOUSE	Q81057_MOUSE	Conserved oligomeric Golgi complex subunit 1;	Component of oligomeric Golgi complex 1;Low density lipoprotein receptor defect B-complementing protein;
M	AAADISQWAGPLCLQEVDEPPQHALR	N-ter + 42.01 Da, C +57.02 Da N-ter + 42.01 Da, K +28.03 Da, C	45.4	43.8	3	2842.50	n.d.	n.d.	PEBP1_MOUSE	D3Z1V4_MOUSE	Phosphatidylethanolamine-binding protein 1;	HCNPPP;
M	AAETVELHKLKLAELKQECLAR	+57.02 Da	40.5	61.8	4	2675.67	-1.43	0.31	SARNP_MOUSE		SAP domain-containing ribonucleoprotein;	Nuclear protein Hcc-1;
M	AAGFKTVEPLEYR	N-ter + 42.01 Da, K +28.03 Da	42.5	46.3	3	1712.96	-1.40	0.33	EXOS8_MOUSE	D3YYN3_MOUSE	Exosome complex component RRP43;	Exosome component 8;Ribosomal RNA-processing protein 43;
M	AAKPKLYFNNGR	N-ter + 42.01 Da, K +28.03 Da N-ter + 42.01 Da, K +28.03 Da, C	23.3	48.8	3	1524.92	0.00	0.00	GSTA4_MOUSE		Glutathione S-transferase A4;	GST A4-4;GST class-alpha member 4;Glutathione S-transferase 5.7;
M	AAANATTNPSQLLPLELVDKIGISR	+57.02 Da	49.8	43.8	3	2637.50	1.36	1.48	LSM5_MOUSE		U6 snRNA-associated Sm-like protein LSM5;	
ADTSKQESNM	AAAPAKGENLSLVVHGGDIR	N-ter + 42.01 Da, K +34.06 Da	68.1	43.8	3	2076.24	-2.00	0.64	DHSO_MOUSE		Sorbitol dehydrogenase;	L-iditol 2-dehydrogenase;
M	AAPODVHVR	N-ter + 42.01 Da	39.6	39.6	2	1033.57	n.d.	n.d.	SEC20_MOUSE	B8JH4_MOUSE	Vesicle transport protein SEC20;	
M	AASAAASSEHFEKLHEIFR	N-ter + 42.01 Da, K +28.03 Da	44.6	66.4	4	2099.18	-1.40	0.26	VTI1B_MOUSE	Q91XH6_MOUSE	Vesicle transport through interaction with t-SNAREs homolog 1B;	Vesicle transport v-SNARE protein Vti1-like 1;Vti1-rp1;
M	AASPSKTEIQITFKR	N-ter + 42.01 Da, K +28.03 Da N-ter + 42.01 Da, K +28.03 Da, C	38.7	36.2	3	1774.06	-0.62	0.15	ARFG2_MOUSE		ADP-ribosylation factor GTPase-activating protein 2;	GTPase-activating protein ZNF289;Zinc finger protein 289;
M	AATFFGVEVKAPCR	+57.02 Da	32.4	44.2	3	1621.90	-0.06	0.02	PSMG1_MOUSE	D3Z795_MOUSE	Proteasome assembly chaperone 1;	Down syndrome critical region protein 2 homolog;
M	AATFGSGVIVPR	N-ter + 42.01 Da, K +34.06 Da	60.0	28.4	2	1218.75	2.12	0.56	UB2V1_MOUSE	D3Z1I3_MOUSE	Ubiquitin-conjugating enzyme E2 variant 1;	CROC-1;
M	AAVKTLNPKAEVAR	N-ter + 42.01 Da, K +28.03 Da	38.0	36.0	3	1564.99	0.06	0.01	TCPZ_MOUSE	E9QPA6_MOUSE	T-complex protein 1 subunit zeta;	CCT-zeta-1;
M	AAVPSAVHLPR	N-ter + 42.01 Da	35.1	29.2	2	1158.68	n.d.	n.d.	LYPL1_MOUSE	E9QLB2_MOUSE	Lysophospholipase-like protein 1;	
DLYTAKGLFR	AAVPSGASTGIYEALRLR	N-ter + 42.01 Da	33.9	68.7	3	1846.07	n.d.	n.d.	ENOA_MOUSE	ENOB_MOUSE	Alpha-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 1;Non-neural enolase;
M	AAYKLVILR	N-ter + 42.01 Da, K +34.06 Da	49.0	40.0	2	1121.78	0.65	0.14	PGAM1_MOUSE		Phosphoglycerate mutase 1;	BPG-dependent PGAM 1;Phosphoglycerate mutase isozyme B;
M	ACGLVASNLNLKPGCECLKVR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	52.1	53.3	4	2296.36	-0.36	0.05	LEG1_MOUSE		Galectin-1;	14 kDa lectin;Beta-galactoside-binding lectin L-14-I;Galaptin;Lactose-binding lectin 1;Lectin galactoside-binding soluble 1;S-Lac lectin 1;
M	ADEDEGEGHPSAPHR	N-ter + 42.01 Da	49.3	51.1	3	1628.80	n.d.	n.d.	SNX27_MOUSE	D6RES4_MOUSE	Sorting nexin-27;	
M	ADEEKLPPGWEKR	N-ter + 42.01 Da, K +28.03 Da	49.5	49.7	3	1651.94	-0.22	0.02	PINI_MOUSE		Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1;	Peptidyl-prolyl cis-trans isomerase Pin1;
M	ADEIAKAQVAQPGGDTFGKIIR	N-ter + 42.01 Da, K +28.03 Da	68.1	53.2	4	2495.51	-0.38	0.30	HINT1_MOUSE	80R1E3_MOUSE	Histidine triad nucleotide-binding protein 1;	Adenosine 5'-monophosphoramidase;Protein kinase C inhibitor 1;Protein kinase C-interacting protein 1;
NIYKPNKAM	ADEVTEKQVYDAHTKEIDLVNR	N-ter + 42.01 Da, K +34.06 Da	45.6	59.6	4	2682.57	-1.25	0.54	CAV1_MOUSE	D3Z148_MOUSE	Caveolin-1;	
M	ADIDKLNDSIIQR	N-ter + 42.01 Da, K +34.06 Da	59.3	47.2	3	1689.03	-1.25	0.66	PP1G_MOUSE		Protein phosphatase 1C catalytic subunit;	Protein phosphatase 1C catalytic subunit;
M	ADKEAAFDDAVEER	N-ter + 42.01 Da, K +34.06 Da	51.9	44.3	3	1640.85	0.30	0.09	RBBP4_MOUSE	E9PYH8_MOUSE	Histone-binding protein RBBP4;	Chromatin assembly factor 1 subunit C;Chromatin assembly factor I p48 subunit;Nucleosome-remodeling factor subunit RBAP48;Retinoblastoma-binding protein 48;
M	ADLEQLSDDEEKVR	N-ter + 42.01 Da, K +28.03 Da	47.4	41.9	3	1729.91	-0.84	0.14	CAZA2_MOUSE	D6RCW7_MOUSE	F-actin-capping protein subunit alpha-2;	CapZ alpha-2;
IQTQQLHAAM	ADTFLEHMCR	N-ter + 42.01 Da, C +57.02 Da	54.5	37.8	2	1320.61	n.d.	n.d.	KPYM_MOUSE		Pyruvate kinase isozymes M1/M2;	Pyruvate kinase muscle isozyme;
SVPAPPTLPM	ADTYAVVQKR	N-ter + 42.01 Da, K +28.03 Da	29.7	22.3	2	1219.68	-1.09	0.19	PTN18_MOUSE	Q3V441_MOUSE	Tyrosine-protein phosphatase non-receptor type 18;	Fetal liver phosphatase 1;PTP-K1;
M	AEAEAALKEEGNR	N-ter + 42.01 Da, K +28.03 Da	34.4	54.3	3	1584.86	-2.94	0.68	UN45B_MOUSE		Protein unc-45 homolog B;	
GTDPTSRKMM	AELEEVLDGKPLQALR	N-ter + 42.01 Da, K +34.06 Da	51.9	45.1	3	1957.18	1.42	0.84	ACINU_MOUSE	E9Q9R4_MOUSE	Apoptotic chromatin condensation inducer in the nucleus;	
M	AENLLDGPPNPKR	N-ter + 42.01 Da, K +28.03 Da	31.3	43.3	3	1489.85	-0.52	0.06	CBP_MOUSE	F8VPR5_MOUSE	CREB-binding protein;	
M	AENNAQNKAKLISETR	N-ter + 42.01 Da, K +28.03 Da	48.1	41.1	3	1884.08	0.21	0.05	MSPD2_MOUSE	B1AU74_MOUSE	Motile sperm domain-containing protein 2;	
M	AENPGLNHR	N-ter + 42.01 Da	36.3	40.6	2	1177.60	n.d.	n.d.	IMA3_MOUSE	E9Q1R3_MOUSE	Importin subunit alpha-3;	Importin alpha Q2;Karyopherin subunit alpha-3;
M	AERPEDLNLPAVITR	N-ter + 42.01 Da	46.3	43.3	3	1849.05	n.d.	n.d.	DPOE3_MOUSE	D6RDT4_MOUSE	DNA polymerase epsilon subunit 3;	DNA polymerase II subunit 3;DNA polymerase epsilon subunit p17;NF-YB-like protein;YB-like protein 1;
MAFPPLWE	AEVETLKR	N-ter + 42.01 Da, K +28.03 Da	47.6	34.4	2	1143.65	-0.34	0.08	DLRB1_MOUSE	A2AVR9_MOUSE	Dynein light chain roadblock-type 1;	Dynein light chain 2A, cytoplasmic;
M	AFKDTGKTPEVEVAIHR	N-ter + 42.01 Da, K +34.06 Da	49.0	50.8	4	2104.30	0.82	0.32	RS20_MOUSE		40S ribosomal protein S20;	

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M	AGKPVLYHFDGR	N-ter + 42.01 Da, K +28.03 Da	33.6	57.3	3	1428.83	-0.36	0.12	GSTA3_MOUSE		Glutathione S-transferase A3;	GST class-alpha member 3;Glutathione S-transferase Ya3;Glutathione S-transferase Yc;
M	AGLGHPSAFGR	N-ter + 42.01 Da	57.4	38.4	2	1110.60	n.d.	n.d.	DDAH1_MOUSE		N(G),N(G)-dimethylarginine dimethylaminohydrolyase 1;	DDAH1;Dimethylargininase-1;
M	AGLLKKTTLVGLVCDTPHER	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	62.7	58.5	4	2433.48	-4.64	2.32	NDUA5_MOUSE		NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 5;	Complex I subunit B13;Complex I-13kD-B;NADH-ubiquinone oxidoreductase 13 kDa-B subunit;
M	AGLNSLEAVKR	N-ter + 42.01 Da, K +28.03 Da	55.3	32.0	2	1226.74	1.61	0.42	TPM4_MOUSE		Tropomyosin alpha-4 chain;	Tropomyosin-4;
M	AGTTTIEAVKR	N-ter + 42.01 Da, K +28.03 Da	50.8	31.3	2	1215.72	2.42	0.72	Q8C7C3_MOUSE	D3Z6i8_MOUSE		
M	AGVDQHEGTIQVQQQLFFR	N-ter + 42.01 Da	48.9	43.2	3	2285.22	n.d.	n.d.	ABHEB_MOUSE		Abhydrolase domain-containing protein 14B;	CCG1-interacting factor B;
M	AGVPRPDNVAEIVAGAR	N-ter + 42.01 Da	42.6	41.6	3	1621.92	n.d.	n.d.	KBTBB_MOUSE		Kelch repeat and BTB domain-containing protein 11;	
M	AIVHTLPVPLEPAR	N-ter + 42.01 Da	36.0	43.4	3	1553.96	n.d.	n.d.	LZTS2_MOUSE		Leucine zipper putative tumor suppressor 2;	
M	AKIAKTHEDIAQIR	N-ter + 42.01 Da, K +34.06 Da	30.7	52.3	4	1832.18	0.84	0.28	SF3B1_MOUSE		Splicing factor 3B subunit 1;	Protein LAPSER1;
M	AKIAQAGMYR	N-ter + 42.01 Da, K +34.06 Da	45.8	27.7	2	1183.69	-0.45	0.13	ANXA6_MOUSE	F8WIT2_MOUSE	Annexin A6;	Pre-mRNA-splicing factor SF3b 155 kDa subunit;Spliceosome-associated protein 155;
M	AKTEEMVQTEEMETPR	N-ter + 42.01 Da, K +28.03 Da	40.1	53.4	3	1978.01	-0.03	0.01	BAG1_MOUSE	F6TFC9_MOUSE	BAG family molecular chaperone regulator 1;	67 kDa calelectrin;Annexin VI;Annexin-6;Calphobindin-II;Chromobindin-20;Lipocortin VI;Protein III;p68;p70;
M	AKVEQVLSLEPQHELFKR	N-ter + 42.01 Da, K +28.03 Da	50.6	64.1	4	2248.40	-0.62	0.20	VAPB_MOUSE	Q88H80_MOUSE	Vesicle-associated membrane protein-associated protein B;	Ubiquitin-activating enzyme E1;Ubiquitin-activating enzyme E1 X;Ubiquitin-like modifier-activating enzyme 1 X;
M	ALDGPQEMLLEEGKAGSGLR	N-ter + 42.01 Da, K +28.03 Da	55.8	46.7	3	2156.14	3.46	1.02	PR58_MOUSE		26S protease regulatory subunit 8;	Bcl-2-associated athanogene 1;
M	ALDPAEQHLR	N-ter + 42.01 Da	41.6	38.5	2	1190.65	n.d.	n.d.	COXAM_MOUSE		COX assembly mitochondrial protein homolog;	
M	ALKQISSNR	N-ter + 42.01 Da, K +34.06 Da	42.1	36.7	2	1091.69	-1.29	0.41	ESTD_MOUSE		5-formylglutathione hydrolase;	Esterase 10;Esterase D;Sid 478;
M	ALLAEHLKPLPADR	N-ter + 42.01 Da, K +28.03 Da	47.6	46.2	3	1726.09	0.68	0.55	GLTP_MOUSE	D3Z1H9_MOUSE	Glycolipid transfer protein;	
M	AMQKIFAR	N-ter + 42.01 Da, K +34.06 Da	42.5	36.0	2	1039.64	-1.47	0.86	ENOB_MOUSE	Q5SX59_MOUSE	Beta-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 3;Muscle-specific enolase;Skeletal muscle enolase;
M	AMVSEFLKQAR	N-ter + 42.01 Da, K +28.03 Da	56.9	37.8	2	1348.77	3.42	2.63	ANXA1_MOUSE	E9QA30_MOUSE	Annexin A1;	Annexin I;Annexin-1;Calpactin II;Calpactin-2;Chromobindin-9;Lipocortin I;Phospholipase A2 inhibitory protein;p35;
M	ANHAPFETDISTLTR	N-ter + 42.01 Da	42.6	49.3	3	1713.92	n.d.	n.d.	F16P1_MOUSE	E9Q0T7_MOUSE	Fructose-1,6-bisphosphatase 1;	D-fructose-1,6-bisphosphate 1-phosphohydrolase 1;
M	ANKGSPSYGMSR	N-ter + 42.01 Da, K +28.03 Da	46.9	37.0	2	1236.64	-0.22	0.04	TAGL_MOUSE		Transgelin;	Actin-associated protein p27;Smooth muscle protein 22-alpha;
M	AQDQGEKENPMR	N-ter + 42.01 Da, K +28.03 Da	29.2	48.6	3	1471.74	-0.18	0.03	RL11_MOUSE	D3Z3K1_MOUSE	60S ribosomal protein L11;	
M	AQELQHPFAR	N-ter + 42.01 Da	31.9	46.1	3	1366.73	n.d.	n.d.	ADSV_MOUSE	E9QM03_MOUSE	Adseverin;	Gelsolin-like protein;Scinderin;
M	AQGSHQIDFQVLHDLR	N-ter + 42.01 Da	63.6	42.7	3	1905.03	n.d.	n.d.	TAB2_MOUSE	D3Z216_MOUSE	TGF-beta-activated kinase 1 and MAP3K7-binding protein 2;	Mitogen-activated protein kinase kinase 7-interacting protein 2;TAK1-binding protein 2;TGF-beta-activated kinase 1-binding protein 2;
M	AQNLKDLAGR	N-ter + 42.01 Da, K +34.06 Da	43.7	30.7	2	1160.71	-1.12	0.12	PHB2_MOUSE	E9Q313_MOUSE	Prohibitin-2;	B-cell receptor-associated protein BAP37;Repressor of estrogen receptor activity;
M	AQPKNLEGYVGFANLPNQVYR	N-ter + 42.01 Da, K +28.03 Da	67.8	41.4	3	2447.36	0.82	0.54	SEPT7_MOUSE	E9Q9F5_MOUSE	Septin-7;	CDC10 protein homolog;
M	ASASYHISNLEKMTSSDKDFR	N-ter + 42.01 Da, K +28.03 Da	34.3	59.7	4	2597.43	-1.18	0.57	CAND1_MOUSE		Cullin-associated NEDD8-dissociated protein 1;	Cullin-associated and neddylation-dissociated protein 1;p120 CAND1;
M	ASCASIDIEDATAQHRLR	N-ter + 42.01 Da, C +57.02 Da	48.3	53.1	3	1827.94	n.d.	n.d.	EDC4_MOUSE	D6RE33_MOUSE	Enhancer of mRNA-decapping protein 4;	
M	ASESGKLWGGRR	N-ter + 42.01 Da, K +28.03 Da	48.4	33.9	2	1216.66	-2.32	0.46	ARLY_MOUSE	E0CY49_MOUSE	Argininosuccinate lyase;	Argininosuccinase;
M	ASGADSKGDDLSTAILKQKRNPNR	N-ter + 42.01 Da, K +28.03 Da	40.8	65.4	4	2667.61	2.64	1.04	TERA_MOUSE		Transitional endoplasmic reticulum ATPase;	155 Mg(2+)-ATPase p97 subunit;Valosin-containing protein;
M	ASGCKIGPSILNSDLANLGAELCLR	N-ter + 42.01 Da, K +34.06 Da, C +57.02 Da	65.1	46.2	3	2591.45	0.37	0.26	RPE_MOUSE	B2KGF0_MOUSE	Ribulose-phosphate 3-epimerase;	Ribulose-5-phosphate-epimerase;
M	ASGVAVSDGVKVFNDMKVYR	N-ter + 42.01 Da, K +34.06 Da	44.8	45.2	3	2201.35	1.41	1.37	COF1_MOUSE	E9Q1T2_MOUSE	Cofilin-1;	Cofilin, non-muscle isoform;
M	ASGVQVADEVCR	N-ter + 42.01 Da, C +57.02 Da	29.8	45.9	2	1331.67	n.d.	n.d.	DEST_MOUSE		Destrin;	Actin-depolymerizing factor;Sid 23;
M	ASGVTNVNDEVKVFNDMKVYR	N-ter + 42.01 Da, K +34.06 Da	45.8	48.0	3	2330.41	-1.18	1.27	COF2_MOUSE		Cofilin-2;	Cofilin, muscle isoform;
M	ASKEMFEDTVEER	N-ter + 42.01 Da, K +28.03 Da	44.0	53.6	3	1639.83	-0.03	0.01	RBBP7_MOUSE	A2AFI9_MOUSE	Histone-binding protein RBBP7;	Histone acetyltransferase type B subunit 2;Nucleosome-remodeling factor subunit RBAP46;Retinoblastoma-binding protein 7;Retinoblastoma-binding protein p46;
M	ASLKDLGKWR	N-ter + 42.01 Da, K +28.03 Da	46.7	34.5	2	1399.83	2.59	0.27	FABP5_MOUSE	E9Q964_MOUSE	Fatty acid-binding protein, epidermal;	Epidermal-type fatty acid-binding protein;Fatty acid-binding protein 5;Keratinocyte lipid-binding protein;Psoriasis-associated fatty acid-binding protein homolog;
M	ASLQPPGGIR	N-ter + 42.01 Da	17.7	6.5	2	1067.58	n.d.	n.d.	PRKDC_MOUSE		DNA-dependent protein kinase catalytic subunit;	p460;
M	ASLSLAPVNIKAGADEER	N-ter + 42.01 Da, K +34.06 Da	55.2	42.2	3	2063.20	3.02	2.23	TCPB_MOUSE		T-complex protein 1 subunit beta;	CCT-beta;
M	ASNFKKTMASSAQR	N-ter + 42.01 Da, K +28.03 Da	36.4	52.6	3	1724.98	-0.79	0.49	CETN2_MOUSE		Centrin-2;	Caltractin isoform 1;
M	ASQSQGIQQLLQAEKR	N-ter + 42.01 Da, K +28.03 Da	41.1	48.8	3	1854.09	1.63	0.46	VATG1_MOUSE		V-type proton ATPase subunit G 1;	V-ATPase 13 kDa subunit 1;Vacuolar proton pump subunit G 1;

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M	ASSDIQVKELEKR	N-ter + 42.01 Da, K +28.03 Da	40.1	46.4	3	1599.96	2.58	0.93	STMN1_MOUSE	D321Z8_MOUSE	Stathmin;	Leukemia-associated gene protein;Leukemia-associated phosphoprotein p18;Metablastin;Oncoprotein 18;Phosphoprotein p19;Prosolin;Protein Pr22;pp17; Bisphosphate 3'-nucleotidase 1;PAP-inositol-1,4-phosphatase;
M	ASSHTVLMR	N-ter + 42.01 Da	47.5	35.5	2	1042.56	n.d.	n.d.	BPNT1_MOUSE	D325X0_MOUSE	3'(2'),5'-bisphosphate nucleotidase 1;	
M	ASSKKVTLVLSR	N-ter + 42.01 Da, K +34.06 Da	32.7	43.0	3	1485.02	0.00	0.00	PIR_MOUSE	A2AIH8_MOUSE	Pirin;	Probable quercetin 2,3-dioxygenase PIR;
DVAHPKEAPP	ASTVSGIRPAR	N-ter + 42.01 Da	15.4	44.4	2	1155.69	n.d.	n.d.	OKR1_MOUSE	F8WGG8_MOUSE	Oxidation resistance protein 1;	Protein C7; FYVE finger-containing phosphoinositide kinase;PIKfyve;Phosphatidylinositol-3-phosphate 5-kinase type III;p235; Swiprosin-1;
M	ATDDKSSPTLDSANDLPR	N-ter + 42.01 Da, K +28.03 Da	44.4	48.5	3	1972.03	-1.94	0.52	FYV1_MOUSE	D325N5_MOUSE	1-phosphatidylinositol-3-phosphate 5-kinase;	
M	ATDELASKLSR	N-ter + 42.01 Da, K +28.03 Da	68.6	37.0	2	1259.72	2.50	0.94	EFHD2_MOUSE	Q8C845_MOUSE	EF-hand domain-containing protein D2;	
M	ATDISESSGADCKGDTKNSAKLDADYPLR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	39.4	64.1	4	3210.74	0.08	0.04	DENR_MOUSE	E9Q0G1_MOUSE	Density-regulated protein;	
M	ATEGMILTNHHDQIR	N-ter + 42.01 Da	49.6	57.5	3	1776.96	n.d.	n.d.	GEPH_MOUSE	A0JNY3_MOUSE	Gephyrin;	
M	ATESSLPTHVLDTASGLPAQGLCLR	N-ter + 42.01 Da, C +57.02 Da	30.3	44.8	3	2736.50	n.d.	n.d.	HIUH_MOUSE		5-hydroxyisourate hydrolase;	Transthyretin-related protein; CW17;Mammalian branch point-binding protein;Transcription factor ZFM1;Zinc finger gene in MEN1 locus;Zinc finger protein 162;
M	ATGANATPLDFPSKRR	N-ter + 42.01 Da, K +28.03 Da	45.1	51.6	3	1771.05	1.30	0.18	SF01_MOUSE	Q3UI45_MOUSE	Splicing factor 1;	Hexokinase type III;
M	ATIGPSGLHPGER	N-ter + 42.01 Da	49.4	30.8	2	1332.72	n.d.	n.d.	HXX3_MOUSE	D6RCV7_MOUSE	Hexokinase-3;	Hexokinase type III;
M	ATKCTKCGPGYSTPLEAMKGR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	63.6	52.4	4	2553.49	-1.69	0.60	SBP1_MOUSE	D6RHN2_MOUSE	Selenium-binding protein 1;	56 kDa selenium-binding protein;
M	ATKIDKEACR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	25.9	57.4	3	1288.75	0.77	0.33	COTL1_MOUSE		Coactosin-like protein;	
M	ATPEASGSGEKVEGSEPSVTYYR	N-ter + 42.01 Da, K +34.06 Da	41.1	37.6	3	2476.27	0.12	0.05	CYB5B_MOUSE		Cytochrome b5 type B;	Cytochrome b5 outer mitochondrial membrane isoform;
M	ATQVEPLLPAGAPLLQAEHGLAR	N-ter + 42.01 Da	39.2	44.7	3	2522.46	n.d.	n.d.	LARP1_MOUSE		La-related protein 1;	La ribonucleoprotein domain family member 1; Anchorin C1;Annexin V;Annexin-5;Calphobindin I;Endonexin II;Lipocortin V;Placental anticoagulant protein 4;Placental anticoagulant protein I;Thromboplastin inhibitor;Vascular anticoagulant-alpha;
M	ATRGTVTFDFGFDGR	N-ter + 42.01 Da	42.7	52.3	3	1637.87	n.d.	n.d.	ANXA5_MOUSE		Annexin A5;	
M	ATTAQSQPQVAGKR	N-ter + 42.01 Da, K +28.03 Da	41.0	44.6	3	1608.93	2.18	0.83	THUM1_MOUSE		THUMP domain-containing protein 1;	
EATGGKYVPR	AVLVDELPMTMDSVR	N-ter + 42.01 Da	32.7	71.5	3	1642.94	n.d.	n.d.	TBB2C_MOUSE	TBB4_MOUSE	Tubulin beta-4B chain;	Tubulin beta-2C chain;
M	AVSTGVKVPR	N-ter + 42.01 Da, K +34.06 Da	42.8	15.7	2	1088.69	0.12	0.05	UB2V2_MOUSE		Ubiquitin-conjugating enzyme E2 variant 2;	Ubc-like protein MMS2; L-isoaspartyl protein carboxyl methyltransferase;Protein L-isoaspartyl/D-aspartyl methyltransferase;Protein-beta-aspartate methyltransferase;
M	AWKSGGASHSELIHNR	N-ter + 42.01 Da, K +28.03 Da	44.7	52.0	4	1932.10	0.67	0.20	P1MT_MOUSE	E9PWEO_MOUSE	Protein-L-isoaspartate(D-aspartate) O-methyltransferase;	
M	AYHSFLVEPISCHAWNKDR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	37.9	63.8	4	2399.30	0.60	0.12	ARC1B_MOUSE	D32650_MOUSE	Actin-related protein 2/3 complex subunit 1B;	Arp2/3 complex 41 kDa subunit;p41-ARC; BPG-dependent PGAM 1;Phosphoglycerate mutase isozyme B;
MA	AYKLVLR	N-ter + 42.01 Da, K +34.06 Da	41.7	36.8	2	1050.74	0.07	0.01	PGAM1_MOUSE		Phosphoglycerate mutase 1;	
VYTYIQEFYR	CLVQKGLVKTK	N-ter + 42.01 Da, K +34.06 Da, K +28.03 Da, C +57.02 Da	11.2	38.0	2	1410.98	n.d.	n.d.	Q9D7A0_MOUSE	D3YV51_MOUSE		
GNSTHPMHSR	CSPDPGLTALLSDHR	N-ter + 42.01 Da, C +57.02 Da	48.1	73.0	3	1679.92	n.d.	n.d.	HEMO_MOUSE		Hemopexin;	
M	DADKDNKQACDER	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	37.3	66.0	3	1905.98	0.03	0.01	NMI_MOUSE	87ZD13_MOUSE	N-myc-interactor;	N-myc and STAT interactor;
M	DDDIAALVDNDSGCMKAGFAGDDAPR	N-ter + 42.01 Da, K +34.06 Da, C +57.02 Da	66.1	33.1	3	2812.38	1.12	0.69	ACTB_MOUSE	E9Q1F2_MOUSE	Actin, cytoplasmic 1;	Beta-actin;
M	DDREDLVYQAKLAQAER	N-ter + 42.01 Da, K +28.03 Da	65.8	48.0	3	2349.24	2.37	1.04	1433E_MOUSE	D6REF3_MOUSE	14-3-3 protein epsilon;	
MC	DEDETTALVCDNDSGLVKAGFAGDDAPR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	61.3	39.8	3	2949.45	-0.34	0.17	ACTS_MOUSE		Actin, alpha skeletal muscle;	Alpha-actin-1;
M	DGAAGPGEPAHETLQTLRSQR	N-ter + 42.01 Da	59.5	45.3	3	2264.15	n.d.	n.d.	EMAL3_MOUSE		Echinoderm microtubule-associated protein-like 3;	3T3-L1 lipid-binding protein;Adipocyte lipid-binding protein;Adipocyte-type fatty acid-binding protein;Fatty acid-binding protein 4;Myelin P2 protein homolog;p15;p2 adipocyte protein;Protein 422;
GKSTTIKRR	DGDKLVVECVKMGVTSTR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	38.0	79.0	4	2091.24	-2.32	0.58	FABP4_MOUSE		Fatty acid-binding protein, adipocyte;	
M	DGEDDSNLVIKRR	N-ter + 42.01 Da, K +28.03 Da	29.8	51.2	3	1716.96	-0.76	0.14	F192A_MOUSE		Protein FAM192A;	NEFA-interacting nuclear protein NIP30;
QAFTVIDQNR	DGIIDKEDLR	N-ter + 42.01 Da, K +34.06 Da	33.4	69.3	3	1248.76	-1.47	0.41	MLR5_MOUSE	F6ULR7_MOUSE	Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;
M	DGIVPDIAGVTKR	N-ter + 42.01 Da, K +34.06 Da	33.1	42.1	2	1546.92	2.49	0.95	PTBP1_MOUSE	Q92217_MOUSE	Polypyrimidine tract-binding protein 1;	Heterogeneous nuclear ribonucleoprotein I;
PLPLLSALD	DGKATLTSSTNPLGR	N-ter + 42.01 Da, K +28.03 Da	41.7	106.7	3	1587.00	2.72	0.89	PAX8_MOUSE	A2AIU6_MOUSE	Paired box protein Pax-8;	
LLQDGLKMDL	DHGKFLDCVVR	N-ter + 42.01 Da, K +34.06 Da, C +57.02 Da	36.6	79.6	3	1420.85	-2.00	0.96	KBTB5_MOUSE		Kelch repeat and BTB domain-containing protein 5;	
M	DIAIHPWIR	N-ter + 42.01 Da	35.3	56.9	3	1429.81	n.d.	n.d.	CRYAB_MOUSE		Alpha-crystallin B chain;	Alpha(B)-crystallin;p23;
LTMKAKSTVR	DIDPQNDLFLR	N-ter + 42.01 Da	29.0	79.3	3	1487.84	n.d.	n.d.	DLRB2_MOUSE		Dynein light chain roadblock-type 2;	Dynein light chain 2B, cytoplasmic;
M	DKNELVQKAKLAEQAER	N-ter + 42.01 Da, K +34.06 Da	39.5	46.8	4	2244.41	1.21	0.38	1433Z_MOUSE	D3YXF4_MOUSE	14-3-3 protein zeta/delta;	Protein kinase C inhibitor protein 1;SEZ-2;
M	DKNELVQKAK	N-ter + 42.01 Da, K +34.06 Da	37.6	40.4	3	1446.96	1.71	0.72	1433Z_MOUSE	D3YXF4_MOUSE	14-3-3 protein zeta/delta;	Protein kinase C inhibitor protein 1;SEZ-2;
M	DLA AAAEPGAGSQHPEVR	N-ter + 42.01 Da	58.2	63.9	3	1948.04	n.d.	n.d.	MCM6_MOUSE	Q3ULG5_MOUSE	DNA replication licensing factor MCM6;	Mi5 homolog;

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Non Prime Site	Prime Site	Modifications	Hyperscore	Mass error in ppm	Charge	Precursor neutral mass in Da	Fold change (log ₂) of ASAPRatio	FC-error of ASAPRatio	Uniprot ID 1	Uniprot ID 2	Protein Name 1	Protein Name 2
M	DLEAVCKR	N-ter + 42.01 Da, K +34.06 Da, C +57.02 Da	49.8	37.0	2	1196.66	-0.15	0.04	AGM1_MOUSE	Q88WW3_MOUSE	Phosphoacetylglucosamine mutase;	Acetylglucosamine phosphomutase;N-acetylglucosamine-phosphate mutase;Phosphoglucomutase-3;
LTSSESRPTR	DLSSSDLTASKIVK	N-ter + 42.01 Da, K +28.03 Da	31.8	58.4	3	1647.99	0.50	0.12	A2M_MOUSE	D3YW52_MOUSE	Alpha-2-macroglobulin;	Pregnancy zone protein;
M	DNLSDTLKKLKITAADR	N-ter + 42.01 Da, K +28.03 Da	25.9	57.9	4	2158.33	1.60	1.15	E9Q912_MOUSE	E9Q6Q4_MOUSE		
M	DPSGVKVLETAEDIQER	N-ter + 42.01 Da, K +28.03 Da	40.7	47.3	3	2086.12	0.85	0.36	SPTA2_MOUSE	A3KGU7_MOUSE	Spectrin alpha chain, brain;	Alpha-II spectrin;Fodrin alpha chain;Spectrin, non-erythroid alpha chain;
M	DSEAFQHAR	N-ter + 42.01 Da	62.9	46.9	2	1232.58	n.d.	n.d.	IASPP_MOUSE	D3YXE7_MOUSE	RelA-associated inhibitor;	Inhibitor of ASPP protein;NFkB-interacting protein 1;PPP1R13B-like protein;
M	EAATHQVGMAGPR	N-ter + 42.01 Da	53.1	58.4	3	1496.77	n.d.	n.d.	E9Q7K1_MOUSE			
M	EAKGGTVKAASGFNATEDAQTLR	N-ter + 42.01 Da, K +28.03 Da	56.4	55.0	4	2550.42	-0.38	0.17	ANKA4_MOUSE	E9Q073_MOUSE	Annexin A4;	Annexin IV;Annexin-4;
M	EDPGETSIIHR	N-ter + 42.01 Da	47.3	32.0	2	1427.64	n.d.	n.d.	Q80X98_MOUSE			
M	EEAELVKGR	N-ter + 42.01 Da, K +28.03 Da	55.9	39.5	2	1230.68	2.12	0.63	PALMD_MOUSE	Q3UVT7_MOUSE	Palmdelphin;	
M	EEAPHGCPGADSAQAGR	N-ter + 42.01 Da, C +57.02 Da	67.4	49.7	3	1881.87	n.d.	n.d.	NUBP1_MOUSE		Cytosolic Fe-5 cluster assembly factor NUBP1;	Nucleotide-binding protein 1;
MC	EEEDSTALVCDNGSGLCKAGFAGDDAPR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	48.3	55.6	4	3010.46	1.32	0.58	ACTA_MOUSE		Actin, aortic smooth muscle;	Alpha-actin-2;
M	EEEIAALVIDNGSMCKAGFAGDDAPR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	92.5	46.2	3	2862.45	1.09	0.83	ACTG_MOUSE	B1ATY1_MOUSE	Actin, cytoplasmic 2;	Gamma-actin;
M	EEESIKEGSEKPR	N-ter + 42.01 Da, K +28.03 Da	37.7	53.0	3	1745.94	0.57	0.19	PKHO2_MOUSE		Pleckstrin homology domain-containing family O member 2;	Pleckstrin homology domain-containing family Q member 1;
MC	EEETLALVCDNGSGLCKAGFAGDDAPR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	82.9	45.3	3	2909.41	1.38	0.66	ACTH_MOUSE	D3YZY0_MOUSE	Actin, gamma-enteric smooth muscle;	Alpha-actin-3;Gamma-2-actin;Smooth muscle gamma-actin;
M	EERPSETNSNVDSQAQPSVAQLAGR	N-ter + 42.01 Da	51.5	59.4	4	2801.46	n.d.	n.d.	CPZIP_MOUSE		CapZ-interacting protein;	Protein kinase substrate CapZIP;
GKPGERGLPG	EFLGPGAGPR	N-ter + 42.01 Da	28.6	76.8	2	1138.66	n.d.	n.d.	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;
M	EGYHKPDQQLKQLKDTANR	N-ter + 42.01 Da, K +34.06 Da	40.1	61.4	4	2614.60	-0.42	0.12	TKT_MOUSE	E0CY51_MOUSE	Transketolase;	P68;
M	EIPPTHYAASR	N-ter + 42.01 Da	31.3	35.2	2	1413.72	n.d.	n.d.	LXN_MOUSE		Latexin;	Endogenous carboxypeptidase inhibitor;Tissue carboxypeptidase inhibitor;
M	FAPEQSPAKM	N-ter + 42.01 Da, K +34.06 Da	40.1	49.0	2	1227.65	-0.06	0.01	Q8R2L7_MOUSE	E9Q616_MOUSE		
M	PARRSPSLAM	N-ter + 42.01 Da, K +34.06 Da	23.4	36.5	3	1461.99	2.08	0.83	1433T_MOUSE		14-3-3 protein theta;	14-3-3 protein tau;
M	EKTLETVPLER	N-ter + 42.01 Da, K +34.06 Da	41.5	3	1520.90	0.88	0.24	ROA2_MOUSE		Heterogeneous nuclear ribonucleoproteins A2/B1;		
M	EKVPGDMEIER	N-ter + 42.01 Da, K +28.03 Da	34.1	52.3	3	1658.90	-1.09	0.14	CYGB_MOUSE		Cytoglobin;	Histoglobin;
M	EKVPGDMEIER	N-ter + 42.01 Da, K +28.03 Da	46.0	49.1	3	1502.78	-0.27	0.06	CYGB_MOUSE		Cytoglobin;	Histoglobin;
M	ELHILHR	N-ter + 42.01 Da	20.6	43.9	3	1218.67	n.d.	n.d.	GATL2_MOUSE	GATL3_MOUSE	GATS-like protein 2;	
M	ELVEVLKR	N-ter + 42.01 Da, K +34.06 Da	56.2	40.7	2	1191.76	-0.06	0.04	NDUAC_MOUSE		NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 12;	Complex I-B17.2;NADH-ubiquinone oxidoreductase subunit B17.2;
M	ELVVRGAMATATVR	N-ter + 42.01 Da	29.1	15.5	3	1643.87	n.d.	n.d.	E9PXG8_MOUSE			
M	ENEYKR	N-ter + 42.01 Da, K +28.03 Da	36.5	39.5	2	1038.52	-0.38	0.06	IFISA_MOUSE		Interferon-activable protein 205-A;	Interferon-inducible protein p205-A;Protein D3';
M	ENQLTKSVEER	N-ter + 42.01 Da, K +28.03 Da	49.3	35.0	2	1532.80	-0.84	0.18	OCTC_MOUSE		Peroxisomal carnitine O-octanoyltransferase;	
DKLCAIPNLR	ENYGEADCCCTKQEPER	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	51.8	60.0	3	2168.05	-0.74	0.12	ALBU_MOUSE		Serum albumin;	
M	EPKAPCPAAVPSSEER	N-ter + 42.01 Da, K +34.06 Da, C +57.02 Da	56.4	45.4	3	1843.99	-1.25	0.45	COAC_MOUSE		Phosphopantothenoylcysteine decarboxylase;	CoaC;
M	EQAVHGESKR	N-ter + 42.01 Da, K +28.03 Da	24.4	46.3	3	1340.71	-0.36	0.13	NSDHL_MOUSE		Sterol-4-alpha-carboxylate 3-dehydrogenase, decarboxylating;	
M	ETLLKR	N-ter + 42.01 Da, K +34.06 Da	29.9	37.0	2	965.61	-2.32	0.23	KT3K_MOUSE		Ketosamine-3-kinase;	Fructosamine-3-kinase-related protein;
M	ETPKPR	N-ter + 42.01 Da, K +28.03 Da	33.4	41.6	2	927.52	-0.03	0.01	IRF3_MOUSE		Interferon regulatory factor 3;	
M	EVKVVESGGGLVQPQGSLSR	N-ter + 42.01 Da, K +28.03 Da	41.4	60.0	3	1937.17	-0.74	0.12	HVM26_MOUSE		Ig heavy chain V region M167;	
M	FGQADSQAGKSGSR	N-ter + 42.01 Da, K +28.03 Da	20.2	37.0	3	1595.79	-0.34	0.04	HN1L_MOUSE		Hematological and neurological expressed 1-like protein;	
RNLHKTAVHN	GAGGALFVHR	N-ter + 42.01 Da	52.7	39.6	2	1025.58	n.d.	n.d.	NDUV2_MOUSE		NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial;	NADH-ubiquinone oxidoreductase 24 kDa subunit;
CFSGMSDHRV	GDGGSFSQSTTGHCVHMR	N-ter + 42.01 Da, C +57.02 Da	43.2	79.7	4	1961.97	n.d.	n.d.	HNRH2_MOUSE		Heterogeneous nuclear ribonucleoprotein H2;	Heterogeneous nuclear ribonucleoprotein H';
M	GDLSHIER	N-ter + 42.01 Da	44.6	22.1	2	967.49	n.d.	n.d.	POTE1_MOUSE	Q3UXR7_MOUSE	Protection of telomeres protein 1;	POT1-like telomere end-binding protein;
M	GDPSKQDILAIKFR	N-ter + 42.01 Da, K +28.03 Da	30.6	51.8	3	1685.04	-0.18	0.03	ARFG3_MOUSE		ADP-ribosylation factor GTPase-activating protein 3;	
M	PGPAGASGDR	N-ter + 42.01 Da	57.7	62.5	2	1292.69	n.d.	n.d.	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;
M	VEDNEDDDDED	N-ter + 42.01 Da	27.3	4.1	2	1168.58	n.d.	n.d.	LMNA_MOUSE		Prelamin-A/C;	
M	AELRHVMTNL	N-ter + 42.01 Da, K +28.03 Da	55.6	70.0	3	1732.94	0.31	0.06	CALM_MOUSE	Q3UKW2_MOUSE	Calmodulin;	
M	VGPAGKNGDR	N-ter + 42.01 Da	76.8	63.2	3	1573.88	n.d.	n.d.	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;
M	PGERGGPGSR	N-ter + 42.01 Da, K +34.06 Da	35.6	21.5	3	1730.92	-2.00	0.24	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;
M	PGPTGPTGPP	N-ter + 42.01 Da, K +34.06 Da	41.9	21.9	3	1701.94	-2.56	0.30	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;
M	PGQRGERGFP	N-ter + 42.01 Da, K +34.06 Da	30.4	24.9	3	2013.05	-4.32	0.86	CO1A1_MOUSE		Collagen alpha-1(I) chain;	Alpha-1 type I collagen;
M	KGDKGSQGYQ	N-ter + 42.01 Da	32.3	54.6	2	1118.61	n.d.	n.d.	CO6A5_MOUSE	E9Q1B5_MOUSE	Collagen alpha-5(VI) chain;	Collagen alpha-1(XIX) chain;
M	GSEAAQLLEAADFAAHKHR	N-ter + 42.01 Da, K +28.03 Da	48.7	72.2	4	2091.20	0.73	0.26	MESH1_MOUSE		Guanosine-3',5'-bis(diphosphate) 3'-pyrophosphohydrolase MESH1;	HD domain-containing protein 3;Metazoan SpOT homolog 1;Penta-phosphate guanosine-3'-pyrophosphohydrolase;
M	ILTRLRLQKR	N-ter + 42.01 Da	64.8	66.2	3	2034.10	n.d.	n.d.	KCRM_MOUSE		Creatine kinase M chain;M-CK;	12 kDa FK506-binding protein;FK506-binding protein 1A;immunophilin FKBP12;Rotamase;
M	GVQVETISPGDGR	N-ter + 42.01 Da	29.6	65.4	3	1355.76	n.d.	n.d.	FKB1A_MOUSE	Q1JUQ8_MOUSE	Peptidyl-prolyl cis-trans isomerase FKBP1A;	Alpha-actin-2;
M	VFPSIVGRPR	N-ter + 42.01 Da, K +28.03 Da	26.6	58.1	4	2604.39	0.40	0.13	ACTA_MOUSE	ACTB_MOUSE	Actin, aortic smooth muscle;	

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Non Prime Site	Prime Site	Modifications	Hyperscore	Mass error in ppm	Charge	Precursor neutral mass in Da	Fold change (log ₂) of ASAPRatio	FC-error of ASAPRatio	Uniprot ID 1	Uniprot ID 2	Protein Name 1	Protein Name 2
M	HQPPESTAAAAAADISAR	N-ter + 42.01 Da	60.5	36.3	3	2007.02	n.d.	n.d.	T22D1_MOUSE	D3Z0V7_MOUSE	TSC22 domain family protein 1;	Regulatory protein TSC-22;TGFB-stimulated clone 22 homolog;TSC22-related inducible leucine zipper 1b;Transforming growth factor beta-1-induced transcript 4 protein;
M	HSLATAAPVPTALAQVDR	N-ter + 42.01 Da	40.4	42.1	3	1990.11	n.d.	n.d.	RCD1_MOUSE		Cell differentiation protein RCD1 homolog;	CCR4-NOT transcription complex subunit 9;EPO-induced protein FL10;
NGYISAAELR	HVMTNLGKLTDEEVDEMIR	N-ter + 42.01 Da, K +28.03 Da	36.0	77.6	4	2428.35	-0.94	0.22	CALM_MOUSE	Q3UKW2_MOUSE	Calmodulin;	
RLAKYNQLMR	IEEALGDKAVFAGR	N-ter + 42.01 Da, K +28.03 Da	33.0	70.0	3	1544.93	-2.94	0.45	ENOB_MOUSE		Beta-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 3;Muscle-specific enolase;Skeletal muscle enolase; 28 kDa adipocyte protein;Adipin;C3 convertase activator;Properdin factor D;
AAVCAQPRGR	ILGGQEAHAAR	N-ter + 42.01 Da	43.9	79.3	3	1234.74	n.d.	n.d.	CFAD_MOUSE		Complement factor D;	
M	IPGGLTEARPATAEVQEIADR	N-ter + 42.01 Da	40.3	46.0	3	2366.30	n.d.	n.d.	CYTA_MOUSE	E0CZ96_MOUSE	Cystatin-A;	Stefin-A;
D	IQMTQSTSSLSASLGDGR	N-ter + 42.01 Da	37.9	55.6	3	1938.01	n.d.	n.d.	KV5AD_MOUSE		Ig kappa chain V-V region HP 123E6;	
KKELSDIAHR	IVAPKGLAADESTGSIAGR	N-ter + 42.01 Da, K +34.06 Da	32.7	73.3	4	2163.45	-0.60	0.15	ALDOA_MOUSE	A6Z144_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;
EDRLGHAGEG	KELSPGAPLTKQSR	N-ter + 42.01 Da, K +28.03 Da	36.0	10.8	3	1722.02	1.03	0.27	F126B_MOUSE		Protein FAM126B;	
GIQASGKKR	KITEQEEDSPKR	N-ter + 42.01 Da, K +34.06 Da	10.6	111.8	3	1569.04	-0.47	0.15	ZDBF2_MOUSE		DBF4-type zinc finger-containing protein 2 homolog;	
VPPGPTNEMS	KNKEMDIDESLSYR	N-ter + 42.01 Da, K +28.03 Da	41.5	21.0	3	1824.93	2.31	0.52	UBA1Y_MOUSE		Ubiquitin-like modifier-activating enzyme 1 Y;	Ubiquitin-activating enzyme E1;Ubiquitin-activating enzyme E1 Y;
M	KQPKNLEGVVGFANLPNQVYR	N-ter + 42.01 Da, K +28.03 Da	52.1	56.0	4	2532.49	0.00	0.00	E9Q1G8_MOUSE		Uncharacterized coiled-coil domain-containing protein KIAA1984;	
RALQIQGVKE	KTAQNKATMGILR	N-ter + 42.01 Da, K +34.06 Da	27.1	6.7	3	1540.95	-2.06	0.26	K1984_MOUSE			Drosophila retinal degeneration B homolog 1;Mpt-1;Phosphatidylinositol transfer protein, membrane-associated 1;Pyk2 N-terminal domain-interacting receptor 2;
SLRSQDHP	LAALPLLATSSSR	N-ter + 42.01 Da	35.8	38.5	3	1340.82	n.d.	n.d.	PITM1_MOUSE		Membrane-associated phosphatidylinositol transfer protein 1;	
M	LGGLGKLAEGLAHR	N-ter + 42.01 Da, K +28.03 Da	49.5	56.2	3	1663.02	0.63	0.36	FAM25_MOUSE		Protein FAM25;	
M	LGSGFAER	N-ter + 42.01 Da, K +28.03 Da	37.7	43.7	2	1164.65	-1.09	0.07	IST1_MOUSE	Q8BHC2_MOUSE	IST1 homolog;	
M	LKPQPPQQTSPQPPPTQQAQVAR	N-ter + 42.01 Da, K +28.03 Da	32.1	42.1	4	2850.60	0.87	0.11	ATX2L_MOUSE		Ataxin-2-like protein;	
M	LPNTGKLAGCTVITGASR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	37.8	47.6	3	2163.22	0.03	0.01	HSDL2_MOUSE	E9PYC8_MOUSE	Hydroxysteroid dehydrogenase-like protein 2;	
LRVPPRMDYR	LYLGHNVYTAIR	N-ter + 42.01 Da	25.7	66.1	3	1460.87	n.d.	n.d.	TRFE_MOUSE	E9Q035_MOUSE	Serotransferrin;	Beta-1 metal-binding globulin;Siderophilin;
VAIDNKIEQA	MDLVKSHLMYAVR	N-ter + 42.01 Da, K +28.03 Da	57.5	46.4	3	1631.93	-0.25	0.08	T22D1_MOUSE	D3Z0V7_MOUSE	TSC22 domain family protein 1;	Regulatory protein TSC-22;TGFB-stimulated clone 22 homolog;TSC22-related inducible leucine zipper 1b;Transforming growth factor beta-1-induced transcript 4 protein;
MSA	MEAADVFHR	N-ter + 42.01 Da	46.5	49.1	2	1116.56	n.d.	n.d.	CPPE_MOUSE	D3Z7F7_MOUSE	Calcineurin-like phosphoesterase domain-containing protein 1;	
IEKRLNRGDK	MEMPLDITGKALMFAKR	N-ter + 42.01 Da, K +28.03 Da	29.3	50.6	3	2094.17	-1.32	0.50	SYNP2_MOUSE	D3YVV9_MOUSE	Synaptopodin-2;	Myopodin;
TSFKENPTTF	MGHYLHEVAR	N-ter + 42.01 Da	21.6	54.9	3	1253.67	n.d.	n.d.	ALBU_MOUSE		Serum albumin;	
M	MKVFTVGLPAEGR	N-ter + 42.01 Da, K +34.06 Da	34.8	50.0	3	1576.96	-1.36	0.38	GRHPR_MOUSE	D6REG4_MOUSE	Glyoxylate reductase/hydroxypyruvate reductase;	
M	MLGPEGEGYVVKLR	N-ter + 42.01 Da, K +28.03 Da	36.5	45.2	3	1673.96	1.53	0.47	HNRPF_MOUSE		Heterogeneous nuclear ribonucleoprotein F;	
M	MQQEASLQPETLR	N-ter + 42.01 Da	44.7	67.1	3	1670.94	n.d.	n.d.	SPA3C_MOUSE	SPA3F_MOUSE	Serine protease inhibitor A3C;	Kallikrein-binding protein;
M	MTEEHTDLEAR	N-ter + 42.01 Da	56.1	33.3	2	1503.68	n.d.	n.d.	CAV3_MOUSE		Caveolin-3;	M-caveolin;
M	NILAPVRR	N-ter + 42.01 Da	31.2	35.7	2	1110.67	n.d.	n.d.	RAB34_MOUSE	81AQD3_MOUSE	Ras-related protein Rab-34;	Ras-related homolog;Ras-related protein Rab-39;Ras-related protein Rah;
M	NKAPQPTGPPPAR	N-ter + 42.01 Da, K +28.03 Da	31.3	37.9	3	1530.86	0.07	0.01	IF4G1_MOUSE	D3YWC6_MOUSE	Eukaryotic translation initiation factor 4 gamma 1;	
EQKQMKETIM	NQEKLAKLQAQVQR	N-ter + 42.01 Da, K +28.03 Da	33.9	44.5	3	1754.07	-1.64	0.57	BT3L4_MOUSE	BTF3_MOUSE	Transcription factor BTF3 homolog 4;	Basic transcription factor 3-like 4;
M	NRPAPEISYENMR	N-ter + 42.01 Da	41.7	44.5	3	1847.95	n.d.	n.d.	TP4A2_MOUSE		Protein tyrosine phosphatase type IVA 2;	Protein-tyrosine phosphatase 4a2;Protein-tyrosine phosphatase of regenerating liver 2;
M	NSVGEACTDMKR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	57.4	30.7	2	1567.73	-2.00	0.64	TRIA1_MOUSE		TP53-regulated inhibitor of apoptosis 1;	Protein 15E1.1;WF-1;p53-inducible cell-survival factor;
M	NTLGKTITCR	N-ter + 42.01 Da, C +57.02 Da	49.4	38.6	2	1369.78	-4.32	0.86	E9Q5Z6_MOUSE	E9Q4Y1_MOUSE		
M	NVNDLKQR	N-ter + 42.01 Da, K +28.03 Da	41.4	45.8	2	1186.67	-1.69	0.33	UAP1_MOUSE	Q3UH27_MOUSE	UDP-N-acetylhexosamine pyrophosphorylase;	
VPAYFNSQR	QATKDAVGIAGLNVLIR	N-ter + 42.01 Da, K +28.03 Da	40.7	50.9	3	1695.05	-2.94	0.45	H571A_MOUSE	H571B_MOUSE	Heat shock 70 kDa protein 1A;	Heat shock 70 kDa protein 3;Hsp68;
HGYAAGQTV	QEGDKVIHPGVSQAGEEMEQGGQVGR	N-ter + 42.01 Da, K +34.06 Da	39.3	55.9	4	2887.56	-5.06	0.00	SBSN_MOUSE		Suprabasin;	
M	QPASAKWYDR	N-ter + 42.01 Da, K +28.03 Da	48.2	37.9	2	1421.73	2.00	0.51	TEBP_MOUSE	D3Z7C6_MOUSE	Prostaglandin E synthase 3;	Cytosolic prostaglandin E2 synthase;Hsp90 co-chaperone;Progesterone receptor complex p23;Sid 3177;Telomerase-binding protein p23;
SQPRVSEVAM	QSAPLEQAKRPR	N-ter + 42.01 Da, K +34.06 Da	27.7	45.8	3	1684.01	-1.09	0.49	SAMH1_MOUSE	E9Q0K6_MOUSE	SAM domain and HD domain-containing protein 1;	Interferon-gamma-inducible protein Mg11; 47 kDa heat shock protein;Collagen-binding protein;Serine protease inhibitor J6;
AKAVLSAEKL	RDEEVHTGLGELLR	N-ter + 42.01 Da	32.9	89.6	4	1665.00	n.d.	n.d.	SERPH_MOUSE		Serpin H1;	Domino homolog;p400 kDa SWI2/SNF2-related protein;
TVAFPSTHPP	RMANTNTSTATPQGQVR	N-ter + 42.01 Da	31.1	108.6	3	1874.11	n.d.	n.d.	EP400_MOUSE	E9QJY9_MOUSE	E1A-binding protein p400;	
M	SAAEEVDGLGVRRPHYGSVLDNER	N-ter + 42.01 Da	59.9	49.6	3	2610.40	n.d.	n.d.	IQGA1_MOUSE	F6ZJB0_MOUSE	Ras GTPase-activating-like protein IQGAP1;	
M	SAAETGSEPSQAGPSEATLHSLR	N-ter + 42.01 Da	68.4	44.4	3	2381.22	n.d.	n.d.	E9Q3E1_MOUSE		Aldehyde dehydrogenase;	
M	SAKAISEQTGKELLYYICITSAIQNR	N-ter + 42.01 Da, C +57.02 Da	31.1	48.5	4	3198.85	3.16	2.11	ACLY_MOUSE	Q3TSO2_MOUSE	ATP-citrate synthase;	ATP-citrate (pro-S)-lyase;Citrate cleavage enzyme;
M	SAKSAISKEIFALPDER	N-ter + 42.01 Da, K +28.03 Da	39.7	42.4	3	1959.15	-0.25	0.10	STXB6_MOUSE	Q3TYA4_MOUSE	Syntaxin-binding protein 6;	

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Non Prime Site	Prime Site	Modifications	Hyperscore	Mass error in ppm	Charge	Precursor neutral mass in Da	Fold change (log ₂) of ASAPRatio	FC-error of ASAPRatio	Uniprot ID 1	Uniprot ID 2	Protein Name 1	Protein Name 2
M	SAMEAADVFHR	N-ter + 42.01 Da	58.5	51.1	2	1274.64	n.d.	n.d.	CPPED_MOUSE	D3Z7F7_MOUSE	Calcineurin-like phosphoesterase domain-containing protein 1;	
M	SAPAGSPHPAAGAR	N-ter + 42.01 Da	56.0	49.2	2	1287.70	n.d.	n.d.	Q80ZK0_MOUSE			
M	SATQHKTSLPQGVYR	N-ter + 42.01 Da, K +28.03 Da	57.6	50.1	3	1578.93	3.14	1.39	Q9CRB1_MOUSE	D3Z141_MOUSE	Prothymosin alpha;	
M	SDAAVDTSEITTKDLKEKKEVVEEAENGR	N-ter + 42.01 Da, K +28.03 Da	33.5	58.5	4	3431.95	2.01	0.77	PTMA_MOUSE			Activating transcription factor 2;MXBP protein;cAMP response element-binding protein CRE-BP1;
M	SDDKPFCLTAPGCGQR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	32.9	41.8	3	1877.92	-0.74	0.26	ATF2_MOUSE	A2AQE9_MOUSE	Cyclic AMP-dependent transcription factor ATF-2;	
M	SDKLPYKVDIAGLAAWGR	N-ter + 42.01 Da, K +28.03 Da	63.9	50.5	3	2057.23	-1.69	0.98	SAHH_MOUSE	A2ALT5_MOUSE	Adenosylhomocysteinase;	CUBP;Liver copper-binding protein;S-adenosyl-L-homocysteine hydrolase;
M	SDNGELEDKPPAPVVR	N-ter + 42.01 Da, K +28.03 Da	46.9	48.4	3	1789.97	0.57	0.26	PAK2_MOUSE		Serine/threonine-protein kinase PAK 2;	Gamma-PAK;p21-activated kinase 2;
M	SDSEKLNLDLSIGR	N-ter + 42.01 Da, K +34.06 Da	53.2	32.5	2	1621.93	0.01	0.01	PP1A_MOUSE		Serine/threonine-protein phosphatase PP1-alpha catalytic subunit;	
M	SDSLDNEEKPPAPPLR	N-ter + 42.01 Da, K +28.03 Da	53.1	50.1	3	1834.00	-0.56	0.14	PAK3_MOUSE	A3KGC2_MOUSE	Serine/threonine-protein kinase PAK 3;	Beta-PAK;CDC42/RAC effector kinase PAK-B;p21-activated kinase 3;
NKLHHHHHHQ	SDSLVVCEDPELKETLR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	40.6	46.1	3	2158.18	0.31	0.14	GMFG_MOUSE		Glia maturation factor gamma;	
M	SEAFDCAKCNESLYGR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	38.7	49.7	3	1975.94	-0.40	0.09	FHL3_MOUSE	A6H6N4_MOUSE	Four and a half LIM domains protein 3;	Skeletal muscle LIM-protein 2;
M	SEGDSVGDVSHGKPSVYVR	N-ter + 42.01 Da, K +28.03 Da	48.0	41.5	3	2044.07	-2.56	0.90	RER1_MOUSE		Protein RER1;	
M	SELEQLRQEAELQR	N-ter + 42.01 Da	42.6	45.7	3	1769.97	n.d.	n.d.	GBB2_MOUSE	GBB4_MOUSE	Guanine nucleotide-binding protein G(i1)/G(s)/G(t) subunit beta-2;	G protein subunit beta-2;Transducin beta chain 2;
M	SEPELKLVAR	N-ter + 42.01 Da, K +34.06 Da	34.3	33.2	2	1216.76	0.06	0.02	APT_MOUSE	Q6PK77_MOUSE	Adenine phosphoribosyltransferase;	
M	SETAPAAPAAPAAEKTVPKVKAR	N-ter + 42.01 Da, K +28.03 Da	33.1	54.2	4	2540.61	4.20	1.95	H14_MOUSE		Histone H1.4;	H1 VAR.2;H1e;
M	SGCQAQGDCCSRPCGAQDKHPR	N-ter + 42.01 Da, K +34.06 Da, C +57.02 Da	42.8	56.1	4	2736.30	-0.52	0.44	MTNB_MOUSE		Probable methylthioribulose-1-phosphate dehydratase;	APAF1-interacting protein;Monocyte/macrophage protein 19;
M	SGEGENPASKPTPVQDVQDGR	N-ter + 42.01 Da, K +28.03 Da	63.4	46.9	3	2294.19	0.18	0.08	PA1B3_MOUSE	Q8CA83_MOUSE	Platelet-activating factor acetylhydrolase IB subunit gamma;	PAF acetylhydrolase 29 kDa subunit;PAF-AH subunit gamma;
M	SGGKYVDSEGHLYTVPIR	N-ter + 42.01 Da, K +28.03 Da	41.6	46.2	3	2047.13	-1.43	0.62	CAV1_MOUSE		Caveolin-1;	
PSGPGVKDGR	SGQPGVPGAPGVR	N-ter + 42.01 Da	38.7	62.5	2	1219.71	n.d.	n.d.	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;
M	SGSSVAAMKVKVQQLR	N-ter + 42.01 Da, K +28.03 Da	42.0	46.5	3	1873.13	-0.74	0.16	GBG5_MOUSE		Guanine nucleotide-binding protein G(i1)/G(s)/G(o) subunit gamma-5;	
M	SGYTPDEKLR	N-ter + 42.01 Da, K +34.06 Da	42.3	33.0	2	1240.69	-1.09	0.19	NDUB6_MOUSE	A2AP32_MOUSE	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 6;	Complex I-B17;NADH-ubiquinone oxidoreductase B17 subunit;
M	SHGFTKEEVAEFAAFNR	N-ter + 42.01 Da, K +28.03 Da	36.8	54.7	4	2137.14	-0.11	0.02	CALM4_MOUSE		Calmodulin-4;	Calcium-binding protein Dd112;
M	SHPSWLPPKSTGEPLGHVPPAR	N-ter + 42.01 Da, K +34.06 Da	37.1	58.0	4	2325.38	0.67	0.05	LPP_MOUSE		Lipoma-preferred partner homolog;	
M	SHQTGIQASEDVKEIFAR	N-ter + 42.01 Da, K +28.03 Da	48.3	47.3	3	2085.15	-1.09	0.44	TWF1_MOUSE		Twinfilin-1;	Protein A6;
M	SHTILLVQPTKRPEGR	N-ter + 42.01 Da, K +34.06 Da	29.8	48.1	4	1907.21	-0.47	0.14	ERH_MOUSE		Enhancer of rudimentary homolog;	
M	SIEKIWAR	N-ter + 42.01 Da, K +34.06 Da	40.7	31.7	2	1077.67	-1.47	0.16	ENOG_MOUSE	D3Z6E4_MOUSE	Gamma-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 2;Neural enolase;Neuron-specific enolase;
M	SILVYSPHPDAFPLSLR	N-ter + 42.01 Da	45.8	44.5	3	1840.03	n.d.	n.d.	SYVC_MOUSE		Valine-tRNA ligase;	Protein G7a;Valyl-tRNA synthetase;
SLSTFQQMWI	SKQEYDEAGPSIVHR	N-ter + 42.01 Da, K +28.03 Da	48.0	75.4	4	1785.00	1.57	0.37	ACTA_MOUSE	ACTC_MOUSE	Actin, aortic smooth muscle;	Alpha-actin-2;
M	SKQPTQFINPETPGYGFANLPNQVHR	N-ter + 42.01 Da, K +28.03 Da	42.0	52.1	4	3236.81	1.64	1.08	SEPT2_MOUSE	D3Z3C0_MOUSE	Septin-2;	Neural precursor cell expressed developmentally down-regulated protein 5;
M	SKSESPKEPEQLR	N-ter + 42.01 Da, K +28.03 Da	38.4	49.3	3	1611.93	2.92	1.49	ROA1_MOUSE	Q5EBP8_MOUSE	Heterogeneous nuclear ribonucleoprotein A1;	suppressed;hnRNP core protein A1;
CEPVYGLTM	SLKPOQPAPATGR	N-ter + 42.01 Da, K +28.03 Da	35.4	41.2	3	1613.96	0.82	0.15	ATX2_MOUSE	E9QQ60_MOUSE	Ataxin-2;	Spinocerebellar ataxia type 2 protein homolog;
M	SLSNKLTLDKLDVKGKR	N-ter + 42.01 Da, K +34.06 Da	30.2	46.3	3	2092.49	-1.03	0.06	PGK1_MOUSE		Phosphoglycerate kinase 1;	
ASVILQHLRM	SMHTEAAEVLRLR	N-ter + 42.01 Da	34.9	45.4	3	1526.81	n.d.	n.d.	HIBCH_MOUSE	E0CX19_MOUSE	3-hydroxyisobutyryl-CoA hydrolase, mitochondrial;	3-hydroxyisobutyryl-coenzyme A hydrolase;
M	SMNKGPTLLDGLDPEQENVLQR	N-ter + 42.01 Da, K +28.03 Da	53.0	51.9	3	2523.39	3.04	1.55	PLIN1_MOUSE		Perilipin-1;	Lipid droplet-associated protein;Perilipin A;
M	SDAEFDKAAEEVKR	N-ter + 42.01 Da, K +28.03 Da	51.0	29.2	2	1704.92	2.08	0.25	ACBP_MOUSE		Acyl-CoA-binding protein;	Diazepam-binding inhibitor;Endozepine;
M	SGQDSNPAAIHPAAEDIQGDDR	N-ter + 42.01 Da	49.5	52.7	3	2305.14	n.d.	n.d.	PA1B2_MOUSE	F8WIW7_MOUSE	Platelet-activating factor acetylhydrolase IB subunit beta;	beta;
M	SSEPPPPPLQPPTHQTSVGLLDTPR	N-ter + 42.01 Da	38.3	48.7	4	2689.50	n.d.	n.d.	CHSP1_MOUSE		Calcium-regulated heat stable protein 1;	Calcium-regulated heat-stable protein of 24 kDa;
M	SSGALLPKPQMR	N-ter + 42.01 Da, K +28.03 Da	38.4	34.1	2	1353.79	-0.94	0.11	COX6C_MOUSE	D3Z6E1_MOUSE	Cytochrome c oxidase subunit 6C;	Cytochrome c oxidase polypeptide VIc;
M	SSIKVECVLR	N-ter + 42.01 Da, K +34.06 Da, C +57.02 Da	39.4	30.9	2	1265.76	-2.56	0.45	RGN_MOUSE		Regucalcin;	Glucuronolactonase;Senescence marker protein 30;
M	SSKTASTNSIAQAR	N-ter + 42.01 Da, K +28.03 Da	35.4	46.2	3	1490.84	0.10	0.04	GBG12_MOUSE		Guanine nucleotide-binding protein G(i1)/G(s)/G(o) subunit gamma-12;	
M	SSLQELCSGLPLRPLPENR	N-ter + 42.01 Da, C +57.02 Da	51.1	46.0	3	2207.24	n.d.	n.d.	HUTU_MOUSE	Q3UEL5_MOUSE	Urocanate hydratase;	Imidazolonepropionate hydrolase;
M	SSPPEGKLETKAGHPVAVKAGGMR	N-ter + 42.01 Da, K +34.06 Da	27.1	54.9	4	2545.59	-0.06	0.02	DAP1_MOUSE		Death-associated protein 1;	
M	SSSRPVALVTGANKGIGFAITR	N-ter + 42.01 Da, K +34.06 Da	73.8	46.7	3	2277.41	1.27	0.65	CBR1_MOUSE		Carbonyl reductase [NADPH] 1;	15-hydroxyprostaglandin dehydrogenase [NADP+];NADPH-dependent carbonyl reductase 1;Prostaglandin 9-ketoreductase;Prostaglandin-E(2) 9-reductase;
M	SSTQFNKGPSYGLSAEVKNR	N-ter + 42.01 Da, K +28.03 Da	55.3	46.2	3	2267.26	1.79	0.70	CNN2_MOUSE	D3Z7R6_MOUSE	Calponin-2;	Calponin H2, smooth muscle;Neutral calponin;
M	SSVAVLTQESFAEHR	N-ter + 42.01 Da	49.3	47.7	3	1701.91	n.d.	n.d.	VIGLN_MOUSE		Vigilin;	High density lipoprotein-binding protein;
M	SVFGKLFAGAGGKAGKGGPTPQEAIR	N-ter + 42.01 Da, K +28.03 Da	48.1	64.3	4	2740.68	1.42	0.41	CHM4B_MOUSE		Charged multivesicular body protein 4b;	Chromatin-modifying protein 4b;
M	SYQGKKNIPR	N-ter + 42.01 Da, K +28.03 Da	29.7	43.2	3	1287.79	-0.58	0.38	DPYL2_MOUSE	DPYL3_MOUSE	Dihydropyrimidinase-related protein 2;	Unc-33-like phosphoprotein 2;

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Non Prime Site	Prime Site	Modifications	Hyperscore	Mass error in ppm	Charge	Precursor neutral mass in Da	Fold change (log ₂) of ASAPRatio	FC-error of ASAPRatio	Uniprot ID 1	Uniprot ID 2	Protein Name 1	Protein Name 2
M	TATLRPFLSAVR	N-ter + 42.01 Da	36.7	34.6	2	1388.83	n.d.	n.d.	ARPC4_MOUSE		Actin-related protein 2/3 complex subunit 4;	Arp2/3 complex 20 kDa subunit;
M	TETDGFYKSR	N-ter + 42.01 Da, K +28.03 Da	48.1	37.3	2	1272.65	0.35	0.05	CASP6_MOUSE		Caspase-6;	Apoptotic protease Mch-2;
M	MCTSFKENPT	N-ter + 42.01 Da	29.0	28.4	3	1501.76	n.d.	n.d.	ALBU_MOUSE		Serum albumin;	
M	LIKEGDVVKR	N-ter + 42.01 Da	43.0	62.2	3	1666.00	n.d.	n.d.	ATPA_MOUSE	D3Z6F5_MOUSE	ATP synthase subunit alpha, mitochondrial;	
M	FKEAFLFDR	N-ter + 42.01 Da, K +28.03 Da, C +57.02 Da	50.7	73.5	3	1845.10	-1.36	0.24	MYL1_MOUSE	E9PWG4_MOUSE	Myosin light chain 1/3, skeletal muscle isoform;	Myosin light chain alkali 1/2;
M	TMDKSELVQKAKLAEQAER	N-ter + 42.01 Da, K +28.03 Da	40.5	59.5	4	2300.38	2.26	0.87	1433B_MOUSE	A2A5N1_MOUSE	14-3-3 protein beta/alpha;	Protein kinase C inhibitor protein 1;
M	TQEEAGRLPQVLAR	N-ter + 42.01 Da	36.5	40.3	3	1608.92	n.d.	n.d.	Q8BGM4_MOUSE	Q88Y07_MOUSE		
M	GFQNAILVRY	N-ter + 42.01 Da, K +34.06 Da	35.0	1.4	3	1872.06	-2.64	0.50	ALBU_MOUSE		Serum albumin;	
M	TSDDAKVVAEPPQQR	N-ter + 42.01 Da, K +28.03 Da	46.9	49.2	3	1811.99	2.41	1.68	LAR4B_MOUSE		La-related protein 4B;	La ribonucleoprotein domain family member 4B;La ribonucleoprotein domain family member 5;La-related protein 5;
M	FERPEAEAMC	N-ter + 42.01 Da, K +34.06 Da	26.6	52.5	4	2440.33	-0.54	0.11	ALBU_MOUSE		Serum albumin;	
M	TSPEGAQNKEIDCLSPAQR	N-ter + 42.01 Da, K +34.06 Da, C +57.02 Da	48.6	46.1	3	2305.21	0.73	0.37	LRRF1_MOUSE	E9Q9T1_MOUSE	Leucine-rich repeat flightless-interacting protein 1;	FLI-LRR-associated protein 1;H186 FLAP; Homeobox protein K-2;Homeobox protein mHox;Paired-related homeobox protein 1;
M	TSSYGHVLER	N-ter + 42.01 Da	55.1	41.7	2	1189.62	n.d.	n.d.	PRRX1_MOUSE		Paired mesoderm homeobox protein 1;	
M	AMCTSFKENP	N-ter + 42.01 Da	25.9	30.1	3	1602.81	n.d.	n.d.	ALBU_MOUSE		Serum albumin;	
M	TTKDPSEHPSVTLFR	N-ter + 42.01 Da, K +28.03 Da	42.2	45.9	3	1913.04	-1.47	0.53	ACY1_MOUSE		Aminoacylase-1;	N-acyl-L-amino-acid amidohydrolase;
M	VEKEEAGGGGGGISEEEAAQYDR	N-ter + 42.01 Da, K +28.03 Da	79.7	54.6	3	2464.23	0.07	0.02	SAE1_MOUSE		SUMO-activating enzyme subunit 1;	Ubiquitin-like 1-activating enzyme E1A;
M	LDSETLCRRA	N-ter + 42.01 Da, K +34.06 Da, K +28.03 Da	10.0	109.5	3	1459.36	n.d.	n.d.	STK11_MOUSE	F8WJM6_MOUSE	Serine/threonine-protein kinase STK11;	Liver kinase B1 homolog;
M	PVDKM	N-ter + 42.01 Da, K +34.06 Da	39.5	30.9	2	1107.70	-1.79	0.25	G3P_MOUSE	E9PX99_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;
M	MITCQFS	N-ter + 42.01 Da, K +34.06 Da	32.6	28.1	2	1336.77	-2.00	0.32	TITIN_MOUSE	A2AT70_MOUSE	Titin;	Connectin;
M	TILNNGKTCR	N-ter + 42.01 Da	24.2	67.4	2	1170.60	n.d.	n.d.	CAH3_MOUSE		Carbonic anhydrase 3;	Carbonate dehydratase III;Carbonic anhydrase III;
M	LASLSTFQQM	N-ter + 42.01 Da, K +28.03 Da	32.5	76.0	4	2084.19	1.12	0.21	ACTA_MOUSE	ACTC_MOUSE	Actin, aortic smooth muscle;	Alpha-actin-2;
M	YGFQNAILVR	N-ter + 42.01 Da, K +28.03 Da	55.7	54.2	3	2029.19	-0.42	0.09	ALBU_MOUSE		Serum albumin;	