Table S8: Dimethylated (naturally unmodified) N-termini identified in the TAILS experiment comparing wild-type and *Ctsb*$^{-/-}$ skin (replicate 2). This is a comprehensive, non redundant listing. 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	Quantile
RRAPAAQPPA	AAAPSAVGSPAAAPR	N-ter +34.06 Da	45.1	51.7	3	1326.82	-0.45	0.06	CHCH2_MOUSE	B2RPU8_MOUSE	Coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial;		0.25 - 0.75
NAVGPVPTAN	AALPADPPASVVVGPVVVPR	N-ter +34.06 Da	63.9	72.8	3	1944.30	0.53	0.04	FETUA_MOUSE		Alpha-2-HS-glycoprotein;	Countertrypin;Fetuin-A;	0.25 - 0.75
PFAGGGYRLG	AAPEEESAYVAGER	N-ter +34.06 Da	29.4	61.3	3	1511.82	-2.47	0.14	NSF1C_MOUSE		NSFL1 cofactor p47;	p97 cofactor p47;	0.00 - 0.15
LRAMRGIVNG	AAPELPVPTGGPMAGAR	N-ter +34.06 Da	41.4	45.0	3	1624.95	-0.89	0.05	VATB2_MOUSE		V-type proton ATPase subunit B, brain isoform;	Endomembrane proton pump 58 kDa subunit;Vacuolar proton pump subunit B 2;	0.15 - 0.25
LERKPAAGLS	AAPVPPAAAPLLDFSSDSVPPAPR	N-ter +28.03 Da	42.8	75.4	4	2370.44	-0.79	0.11	RTN4_MOUSE	Q8BHF5_MOUSE	Reticulon-4;	Neurite outgrowth inhibitor;	0.15 - 0.25
ASASTSQSSR	AASIFGGAKPVDTAAR	N-ter +28.03 Da, K +28.03 Da	30.9	83.2	3	1587.01	-5.64	0.00	IF4B_MOUSE	Q3TDD8_MOUSE	Eukaryotic translation initiation factor 4B;		0.00 - 0.15
SVTREDSGQY	AAYISNAVGAAYSSAR	N-ter +34.06 Da	37.2	83.5	3	1604.97	-4.64	1.16	OBSCN_MOUSE	E9QQ96_MOUSE	Obscurin;	Obscurin-RhoGEF;Obscurin-myosin light chain kinase;	0.00 - 0.15
M	ACGLVASNLNLKPGECLKVR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	42.8	72.6	4	2300.52	0.07	0.01	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;	0.25 - 0.75
IQNLHSFDPF	ADASKGDDLLPAGTEDYIHIR	N-ter +28.03 Da, K +28.03 Da	52.7	82.2	4	2312.36	0.86	0.10	EIF1_MOUSE		Eukaryotic translation initiation factor 1;	Protein translation factor SUI1 homolog;	0.25 - 0.75
IQNLQSFDPF	ADATKGDDLLPAGTEDYIHIR	N-ter +28.03 Da, K +28.03 Da	27.7	66.6	3	2326.34	1.47	0.13	EIF1B_MOUSE		Eukaryotic translation initiation factor 1b;		0.85 - 1.00
VQNFQSFDPL	ADATKGNDLLPAGTEDYIHIR	N-ter +28.03 Da, K +28.03 Da	30.5	76.2	4	2325.37	2.49	0.24	E9QAM7_MOUSE				0.85 - 1.00
LCVFSVQTQA	ADDDYDEPTDSLDAR	N-ter +28.03 Da	35.2	118.8	3	1724.91	-3.18	1.16	FIBB_MOUSE		Fibrinogen beta chain;		0.00 - 0.15
LLSQVLLVTS	ADDLECTPGFQR	N-ter +28.03 Da, C +57.02 Da	21.6	79.9	3	1435.75	-0.36	0.05	CAD13_MOUSE		Cadherin-13;	Heart cadherin;Truncated cadherin;	0.25 - 0.75
MSFSADQI	ADFKEAFLLFDR	N-ter +34.06 Da, K +34.06 Da	30.1	64.9	3	1538.98	0.01	0.00	E9PWG4_MOUSE				0.25 - 0.75
AGDEESYEVF	ADLFDPVIKLR	N-ter +28.03 Da, K +28.03 Da	35.6	82.2	3	1341.91	0.37	0.03	KCRS_MOUSE		Creatine kinase S-type, mitochondrial;	Basic-type mitochondrial creatine kinase;Sarcomeric mitochondrial creatine kinase;	0.25 - 0.75
TERVVGPISG	ADLHGMLEIPDLR	N-ter +28.03 Da	27.8	73.2	3	1506.90	1.14	0.04	DSG1A_MOUSE	DSG1B_MOUSE	Desmoglein-1-alpha;	DG1;DGI;Desmosomal glycoprotein I;	0.75 - 0.85
IWTTRHPVQG	ADLVQDLSISTCR	N-ter +28.03 Da, C +57.02 Da	29.7	50.3	3	1504.83	-0.40	0.02	LYVE1_MOUSE		Lymphatic vessel endothelial hyaluronic acid receptor 1;	Cell surface retention sequence-binding protein 1;Extracellular link domain-containing protein 1;	0.25 - 0.75
ALPSRMERWS	ADPLAPGAFCTQIVR	N-ter +34.06 Da, C +57.02 Da	37.1	54.7	3	1648.97	0.39	0.03	Q3URZ6_MOUSE	F7DBB3_MOUSE			0.25 - 0.75
LLLPPPNAYA	ADTPGEATPPPR	N-ter +28.03 Da	24.4	81.4	3	1235.72	-0.14	0.01	MESD_MOUSE	D3YVR4_MOUSE	LDLR chaperone MESD;	Mesoderm development candidate 2;Mesoderm development protein;	0.25 - 0.75
TLGISPFHEF	ADVVFTANDSGHR	N-ter +34.06 Da	45.0	52.4	3	1421.79	1.09	0.07	TTHY_MOUSE		Transthyretin;	Prealbumin;	0.75 - 0.85
VREKEAQPLE	AEAPGVDLGILPEGR	N-ter +28.03 Da	74.2	23.6	2	1520.86	0.57	0.03	NIBAN_MOUSE		Protein Niban;	Protein FAM129A;	0.25 - 0.75
APVAPCENKF	AEDSAEAAVSVPESR	N-ter +28.03 Da	35.4	71.3	3	1544.84	0.62	0.03	CA174_MOUSE	E9PUH0_MOUSE	UPF0688 protein C1orf174 homolog;		0.25 - 0.75
TAFQAASALG	AEFASEACR	N-ter +34.06 Da, C +57.02 Da	27.2	64.3	2	1073.57	0.10	0.01	SEP15_MOUSE	D3Z3Y8_MOUSE	15 kDa selenoprotein;		0.25 - 0.75
LEITESQSAD	AEPPPPPKPDLSR	N-ter +28.03 Da, K +28.03 Da	24.8	90.3	3	1455.94	0.66	0.04	ZDHC5_MOUSE	E9QQ92_MOUSE	Palmitoyltransferase ZDHHC5;	Zinc finger DHHC domain-containing protein 5;	0.25 - 0.75
SLQLVSWTLA	AEPVDVLEAWGVHR	N-ter +28.03 Da	59.4	85.3	3	1604.97	0.54	0.05	Q9JLI2_MOUSE				0.25 - 0.75
EITRLQGRMQ	AESQSPTNVDLEDKER	N-ter +34.06 Da, K +34.06 Da	39.2	87.8	3	1885.14	-0.76	0.12	TB182_MOUSE		182 kDa tankyrase-1-binding protein;		0.15 - 0.25
ARSKPSPQLS	AETPVAALPEFPR	N-ter +28.03 Da	30.7	56.8	3	1424.85	-0.11	0.01	E9Q0S6_MOUSE				0.25 - 0.75
GVKVLAFLSL	AEVGQVAGPGPQR	N-ter +34.06 Da	38.4	65.1	3	1298.80	1.17	0.04	CAND2_MOUSE		Cullin-associated NEDD8-dissociated protein 2;	Cullin-associated and neddylation-dissociated protein 2;TBP-interacting protein of 120 kDa B;p120 CAND2;	0.75 - 0.85
STKYDAPFVF	AEVNADVVDWIR	N-ter +34.06 Da	32.7	63.8	3	1419.85	0.19	0.01	TGM2_MOUSE		Protein-glutamine gamma-glutamyltransferase 2;	Tissue transglutaminase;Transglutaminase C;Transglutaminase-2;	0.25 - 0.75
PKHLSRKTLV	AFPQKVMPPPQAR	N-ter +28.03 Da, K +28.03 Da	26.1	76.1	3	1521.96	1.83	0.05	Q3U422_MOUSE				0.85 - 1.00
GLVFVSEAGP	AGAGESKCPLMVKVLDAVR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	17.5	77.9	4	2084.31	0.52	0.06	TTHY_MOUSE		Transthyretin;	Prealbumin;	0.25 - 0.75
RTFGTTGERR	AGEEAADSPELPR	N-ter +34.06 Da	37.0	74.0	3	1374.79	0.32	0.01	ADXL_MOUSE		Adrenodoxin-like protein, mitochondrial;	Ferredoxin-1-like protein;	0.25 - 0.75
MQND	AGEFVDLYVPR	N-ter +34.06 Da	44.5	14.8	2	1298.73	-0.15	0.01	RS21_MOUSE		40S ribosomal protein S21;		0.25 - 0.75
VCDNGSGLCK	AGFAGDDAPR	N-ter +34.06 Da	39.2	66.8	2	1009.57	-0.64	0.06	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
M	AGGEAGVTLGQPHLSR	N-ter +28.03 Da	40.2	27.3	3	1576.87	2.75	0.24	IF2H_MOUSE		Eukaryotic translation initiation factor 2 subunit 3, Y-linked;	Eukaryotic translation initiation factor 2 subunit gamma, Y-linked;	0.85 - 1.00
ENALGLDQQF	AGLDLNSSDNQSGGSTASKGR	N-ter +28.03 Da, K +28.03 Da	35.8	114.2	4	2077.24	-4.32	0.86	DDX3X_MOUSE		ATP-dependent RNA helicase DDX3X;	D1Pas1-related sequence 2;DEAD box RNA helicase DEAD3;DEAD box protein 3, X-chromosomal;Embryonic RNA helicase;	0.00 - 0.15
PVGPAGPIGS	AGPPGFPGAPGPKGELGPVGNPGPAGPAGPR	N-ter +34.06 Da, K +34.06 Da	24.1	65.4	4	2797.71	-2.12	0.09	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.00 - 0.15
RGQSSSANRR	AGSSSGSGVQGASAGGLAADASR	N-ter +34.06 Da	60.0	65.7	3	1954.09	0.90	0.15	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.75 - 0.85
QADCAVLIVA	AGVGEFEAGISKNGQTR	N-ter +28.03 Da, K +28.03 Da	34.8	68.4	3	1776.04	0.32	0.02	EF1A1_MOUSE	EF1A2_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.25 - 0.75
GARGAQVRGN	AGVSDGSEVAKAQKAAPGGASPTIFSR	N-ter +34.06 Da, K +34.06 Da	29.5	69.5	4	2660.68	-0.23	0.02	HINT2_MOUSE		Histidine triad nucleotide-binding protein 2, mitochondrial;	HINT-3;	0.25 - 0.75
GTPVPYALSN	AIGPSAQASTGSLVITCPSNLNDLKESSNNR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	36.6	86.8	4	3268.98	-3.18	0.29	SHLB1_MOUSE	Q3TYR7_MOUSE	Endophilin-B1;	SH3 domain-containing GRB2-like protein B1;	0.00 - 0.15
RENEFSFEDN	AIKGGKKAFKMKR	N-ter +34.06 Da, K +34.06 Da	8.0	97.0	4	1666.44	-6.64	0.00	B1AR17_MOUSE	E9Q614_MOUSE			0.00 - 0.15
PNFASPVITL	AIPENTNIGSLFPIPLATDR	N-ter +28.03 Da	41.1	67.8	3	2166.32	0.71	0.07	Q8CFX3_MOUSE	F7BJK1_MOUSE			0.25 - 0.75
AAAAAAASRI	AIPGLAGAGNSVLLVSNLNPER	N-ter +34.06 Da	48.8	60.7	3	2195.38	-0.60	0.11	PTBP1_MOUSE	Q922I7_MOUSE	Polypyrimidine tract-binding protein 1;	Heterogeneous nuclear ribonucleoprotein I;	0.25 - 0.75
AMRILGGVIS	AISEAAAQYNPEPPPPR	N-ter +34.06 Da	45.9	55.9	3	1841.06	0.25	0.00	D3YW48_MOUSE	CPNS1_MOUSE			0.25 - 0.75

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	Quantile
GLLGLAAADP	AIYFKEQFLDGDAWTNR	N-ter +28.03 Da, K +28.03 Da	26.4	91.9	3	2129.25	-6.64	0.00	CALR_MOUSE		Calreticulin;	CRP55;Calregulin;Endoplasmic reticulum resident protein 60;HACBP;	0.00 - 0.15
DFHRCEKAMT	AKGGDVSVCEWYR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	32.6	78.8	3	1581.89	-2.25	0.21	CX6B1_MOUSE		Cytochrome c oxidase subunit 6B1;	Cytochrome c oxidase subunit VIb isoform 1;	0.00 - 0.15
TAVKVAGSVA	AKLPSSSLLVDR	N-ter +34.06 Da, K +34.06 Da	28.8	46.9	3	1352.93	0.58	0.01	STBD1_MOUSE	Q147V6_MOUSE	Starch-binding domain-containing protein 1;	Genethonin-1;	0.25 - 0.75
AEKSAVSCLW	AKVNPDEVGGEALGR	N-ter +28.03 Da, K +28.03 Da	43.3	76.1	3	1566.96	0.89	0.07	HBB2_MOUSE		Hemoglobin subunit beta-2;	Beta-2-globin;Hemoglobin beta-2 chain;Hemoglobin beta-minor chain;	0.75 - 0.85
ASWSLQGVVF	ALFTLCALFTR	N-ter +34.06 Da, C +57.02 Da	26.6	4.6	3	1345.77	-1.69	0.38	S5A1_MOUSE		3-oxo-5-alpha-steroid 4-dehydrogenase 1;	SR type 1;Steroid 5-alpha-reductase 1;	0.00 - 0.15
RKDAQMVHSN	ALNEDTQDELGDPR	N-ter +34.06 Da	33.1	69.4	3	1605.88	0.94	0.09	AMRP_MOUSE	F6SY09_MOUSE	Alpha-2-macroglobulin receptor-associated protein;	Heparin-binding protein 44;Low density lipoprotein receptor-related protein-associated protein 1;	0.75 - 0.85
ERHTLITEMV	ALNPDFKPPADYKPPATR	N-ter +28.03 Da, K +28.03 Da	17.8	70.9	4	2081.28	1.41	0.09	SF01_MOUSE	Q3UI45_MOUSE	Splicing factor 1;	CW17;Mammalian branch point-binding protein;Transcription factor ZFM1;Zinc finger gene in MEN1 locus;Zinc finger protein 162;	0.75 - 0.85
AVGPVPTANA	ALPADPPASVVVGPVVVPR	N-ter +28.03 Da	51.7	77.1	3	1867.24	0.32	0.02	FETUA_MOUSE		Alpha-2-HS-glycoprotein;	Countertrypin;Fetuin-A;	0.25 - 0.75
SLVSQGMIQL	ALSEASQTDPSGPPPR	N-ter +34.06 Da	61.8	67.7	3	1642.95	-0.92	0.04	F134C_MOUSE		Protein FAM134C;		0.15 - 0.25
KTDQVIQFFI	ALVNDPQPEHPLR	N-ter +28.03 Da	40.6	58.6	3	1512.89	1.50	0.08	UB2L3_MOUSE		Ubiquitin-conjugating enzyme E2 L3;	UbcM4;Ubiquitin carrier protein L3;Ubiquitin-protein ligase L3;	0.85 - 1.00
GMLPEKDCRY	ALYDASFETKESR	N-ter +28.03 Da, K +28.03 Da	25.9	75.6	3	1571.90	-0.92	0.05	DEST_MOUSE		Destrin;	Actin-depolymerizing factor;Sid 23;	0.15 - 0.25
VQMGAVDLLG	AMDDDIAALVVDNGSGMCKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	25.3	51.1	4	2994.50	4.59	0.26	E9Q606_MOUSE				0.85 - 1.00
LALAFGLAHA	AMEGPWKTVAIAADR	N-ter +34.06 Da, K +34.06 Da	27.1	58.8	3	1683.04	0.15	0.00	A2AEN9_MOUSE	Q9D3H2_MOUSE			0.25 - 0.75
PREIFKQKER	AMSTTSVTSSQPGKLR	N-ter +28.03 Da, K +28.03 Da	34.8	99.5	3	1706.07	-2.12	0.37	DBNL_MOUSE		Drebrin-like protein;	Actin-binding protein 1;SH3 domain-containing protein 7;	0.00 - 0.15
SPVSSGVNLF	ANDGSFLELFKR	N-ter +28.03 Da, K +28.03 Da	23.2	87.0	3	1451.90	-0.30	0.02	CS043_MOUSE		Uncharacterized protein C19orf43 homolog;		0.25 - 0.75
EAVVSSVNTV	ANKTVEEAENIVVTTGVVR	N-ter +34.06 Da, K +34.06 Da	27.2	82.7	4	2096.39	-1.09	0.07	SYUG_MOUSE		Gamma-synuclein;	Persyn;	0.15 - 0.25
CDIDIRKDLY	ANNVMSGGTTMYPGIADR	N-ter +34.06 Da	36.7	49.0	3	1888.00	-3.84	0.55	ACTS_MOUSE		Actin, alpha skeletal muscle;	Alpha-actin-1;	0.00 - 0.15
HHSFYNELRV	APEEHPTLLTEAPLNPKANR	N-ter +28.03 Da, K +28.03 Da	38.9	70.1	4	2253.37	1.06	0.09	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.75 - 0.85
QSKGQWLTLE	APLDTINVHLR	N-ter +28.03 Da	37.6	56.8	3	1275.80	-0.12	0.01	LYAG_MOUSE		Lysosomal alpha-glucosidase;	Acid maltase;	0.25 - 0.75
M	APNVLASEPEIPKGIR	N-ter +28.03 Da, K +28.03 Da	43.7	66.2	3	1746.12	0.73	0.07	KAD2_MOUSE		Adenylate kinase 2, mitochondrial;	ATP-AMP transphosphorylase 2;	0.25 - 0.75
TSQLTAFPLG	APPPWPIPQDSSGPELGSR	N-ter +34.06 Da	50.1	58.5	3	2021.16	0.54	0.02	GORS1_MOUSE		Golgi reassembly-stacking protein 1;	Golgi peripheral membrane protein p65;Golgi reassembly-stacking protein of 65 kDa;	0.25 - 0.75
ATSASGALLS	APPSGPPISGFSVGTTYDITR	N-ter +34.06 Da	51.7	68.1	3	2153.27	-0.25	0.03	PRRC1_MOUSE		Protein PRRC1;	Proline-rich and coiled-coil-containing protein 1;	0.25 - 0.75
VAGPQPAQTG	APQGSLGEYLFER	N-ter +34.06 Da	44.3	53.8	3	1499.86	1.68	0.06	FRIL1_MOUSE	Q9CPX4_MOUSE	Ferritin light chain 1;	Ferritin L subunit 1;	0.85 - 1.00
NAILVRYTQK	APQVSTPTLVEAAR	N-ter +28.03 Da	42.0	43.8	3	1466.87	0.28	0.01	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
TISKIKGLVR	APQVYILPPPAEQLSR	N-ter +34.06 Da	43.1	52.7	3	1812.13	-0.79	0.01	IGG2B_MOUSE		Ig gamma-2B chain C region;		0.15 - 0.25
M	APVEHVVADAGAFLR	N-ter +28.03 Da	29.0	69.8	3	1578.96	-1.32	0.10	NOB1_MOUSE	F6YBB8_MOUSE	RNA-binding protein NOB1;		0.15 - 0.25
LLATVWHGQG	APVIEPSGPELVVEPGETVTLR	N-ter +28.03 Da	49.2	52.3	3	2316.38	0.03	0.01	CSF1R_MOUSE	Q3TBH6_MOUSE	Macrophage colony-stimulating factor 1 receptor;	CSF-1 receptor;Proto-oncogene c-Fms;	0.25 - 0.75
NLQSRSFRIL	AQMTGTEYMQDPDEEALR	N-ter +34.06 Da	23.4	26.0	3	2118.00	-2.25	0.21	E9PYJ9_MOUSE	LDB3_MOUSE			0.00 - 0.15
GRVQEPKPGM	ARPAPASPAARPFPHTGQGRLR	N-ter +34.06 Da	34.3	37.6	4	2344.41	-2.40	0.13	KIFC3_MOUSE		Kinesin-like protein KIFC3;		0.00 - 0.15
SVQSGNLALA	ASAAAVDAGMAMAGQSPVLR	N-ter +28.03 Da	34.7	37.9	3	1901.02	1.25	0.03	PTBP1_MOUSE	Q922I7_MOUSE	Polypyrimidine tract-binding protein 1;	Heterogeneous nuclear ribonucleoprotein I;	0.75 - 0.85
SPCLLPRVHL	ASAFGSSTESLVAR	N-ter +34.06 Da	49.3	25.5	2	1415.78	0.01	0.00	THEM5_MOUSE		Thioesterase superfamily member 5;		0.25 - 0.75
GNTGFSAGLD	ASAQTTSHELTIPNDLIGCIIGR	N-ter +34.06 Da, C +57.02 Da	29.6	31.3	4	2500.40	-3.18	0.58	PCBP2_MOUSE		Poly(rC)-binding protein 2;	Alpha-CP2;CTBP;Putative heterogeneous nuclear ribonucleoprotein X;	0.00 - 0.15
SSCLVLAARH	ASASSTNLKDVLSNLIPKEQAR	N-ter +34.06 Da, K +34.06 Da	28.2	70.3	4	2443.62	-0.20	0.02	CISY_MOUSE		Citrate synthase, mitochondrial;		0.25 - 0.75
KNVREATESF	ASDPILYRPVAVALDTKGPEIR	N-ter +28.03 Da, K +28.03 Da	23.7	77.7	4	2436.56	-1.09	0.07	KPYM_MOUSE		Pyruvate kinase isozymes M1/M2;	Pyruvate kinase muscle isozyme;	0.15 - 0.25
LALLVRSTAP	ASFFGENHLEVPVPSALTR	N-ter +28.03 Da	33.1	73.3	3	2098.24	-1.89	0.42	CSPG4_MOUSE		Chondroitin sulfate proteoglycan 4;	Chondroitin sulfate proteoglycan NG2;Proteoglycan AN2;	0.00 - 0.15
ENVFGVCHIF	ASFNDTFVHVTDLSGKETICR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	39.7	102.2	4	2452.46	-4.64	1.16	RS14_MOUSE	D3YVF4_MOUSE	40S ribosomal protein S14;		0.00 - 0.15
ARGAAVTRSM	ASGGGVPTDEEQATGLER	N-ter +28.03 Da	51.7	69.4	3	1800.97	-0.60	0.03	COX5B_MOUSE	Q9D881_MOUSE	Cytochrome c oxidase subunit 5B, mitochondrial;	Cytochrome c oxidase polypeptide Vb;	0.25 - 0.75
EPAGTPRRSY	ASGPGGLHADLLR	N-ter +34.06 Da	29.7	31.2	3	1296.78	-0.15	0.00	SSDH_MOUSE		Succinate-semialdehyde dehydrogenase, mitochondrial;	Aldehyde dehydrogenase family 5 member A1;NAD(+)-dependent succinic semialdehyde dehydrogenase;	0.25 - 0.75
DIQVKELEKR	ASGQAFELILSPR	N-ter +28.03 Da	23.2	87.5	3	1415.90	5.05	0.22	STMN1_MOUSE	D3Z1Z8_MOUSE	Stathmin;	Leukemia-associated gene protein;Leukemia-associated phosphoprotein p18;Metablastin;Oncoprotein 18;Phosphoprotein p19;Prosolin;Protein Pr22;pp17;	0.85 - 1.00
QEVRCLERSY	ASKPTLNEVVIVSAIR	N-ter +28.03 Da, K +28.03 Da	44.7	75.7	3	1752.18	-0.15	0.01	THIL_MOUSE		Acetyl-CoA acetyltransferase, mitochondrial;	Acetoacetyl-CoA thiolase;	0.25 - 0.75
SSSPEVKGYW	ASLDASTQTTHELTIPNNLIGCIIGR	N-ter +28.03 Da, C +57.02 Da	43.4	76.2	4	2822.68	-1.40	0.26	PCBP1_MOUSE		Poly(rC)-binding protein 1;	Alpha-CP1;Heterogeneous nuclear ribonucleoprotein E1;	0.15 - 0.25
TGAEDTRMPP	ASLEQSLEASPISKVR	N-ter +28.03 Da, K +28.03 Da	29.3	58.8	3	1770.09	-3.64	0.46	Q3URZ6_MOUSE	F7DBB3_MOUSE			0.00 - 0.15
VYSSSAKNSS	ASNTQDGVGSLCSR	N-ter +28.03 Da, C +57.02 Da	25.8	77.7	3	1478.79	0.21	0.02	PAXI_MOUSE	F8VQ28_MOUSE	Paxillin;		0.25 - 0.75
M	ASQTQGIQQLLQAEKR	N-ter +28.03 Da, K +28.03 Da	33.1	14.1	3	1854.06	4.26	0.31	VATG2_MOUSE		V-type proton ATPase subunit G 2;	V-ATPase 13 kDa subunit 2;Vacuolar proton pump subunit G 2;	0.85 - 1.00

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	Quantile
MKAARFVMRS	ASSLSSASLVPR	N-ter +34.06 Da	41.1	23.9	2	1207.73	0.25	0.01	PDK4_MOUSE		[Pyruvate dehydrogenase [lipoamide]] kinase isozyme 4, mitochondrial;	Pyruvate dehydrogenase kinase isoform 4;	0.25 - 0.75
EVKGYWASLD	ASTQTTHELTIPNNLIGCIIGR	N-ter +34.06 Da, C +57.02 Da	38.3	21.6	3	2442.36	-0.17	0.03	PCBP1_MOUSE		Poly(rC)-binding protein 1;	Alpha-CP1;Heterogeneous nuclear ribonucleoprotein E1;	0.25 - 0.75
WTGYFGKVLM	ASTSYLPSQVTEMFNQGR	N-ter +34.06 Da	27.9	76.8	3	2049.16	-3.84	0.55	WIPI2_MOUSE	D3YWK1_MOUSE	WD repeat domain phosphoinositide-interacting protein 2;		0.00 - 0.15
IREGEVEVLK	ATEMVEVGPEDDEVGAER	N-ter +34.06 Da	49.1	69.6	3	1966.04	-0.84	0.12	PTRF_MOUSE		Polymerase I and transcript release factor;	Cav-p60;Cavin-1;	0.15 - 0.25
NWYKMGLQVL	ATIEKIPFESAFR	N-ter +34.06 Da, K +34.06 Da	25.5	67.9	3	1576.04	-0.43	0.04	FACR2_MOUSE		Fatty acyl-CoA reductase 2;	Male sterility domain-containing protein 1;	0.25 - 0.75
VIQHRPSQQY	ATLDVYNPFENR	N-ter +34.06 Da	21.6	50.5	3	1471.83	-1.18	0.08	SCAM3_MOUSE	Q3UXS0_MOUSE	Secretory carrier-associated membrane protein 3;		0.15 - 0.25
KHKKEKAVTI	ATPATAAPAAVSAATTTSAQEEPAAAPEPR	N-ter +28.03 Da	45.8	78.0	4	2833.63	-1.94	0.30	SRRM1_MOUSE	A2A8V8_MOUSE	Serine/arginine repetitive matrix protein 1;	Plenty-of-prolines 101;	0.00 - 0.15
SSSAPRVSRL	ATTVSAPDLKSVR	N-ter +34.06 Da, K +34.06 Da	44.1	82.2	3	1411.98	-1.03	0.08	F7CK47_MOUSE	MAP4_MOUSE	Microtubule-associated protein;		0.15 - 0.25
SDTTTPIKLL	AVAATAPPDAPNREEVFDER	N-ter +28.03 Da	28.4	100.0	4	2182.28	-1.40	0.29	VINC_MOUSE		Vinculin;	Metavinculin;	0.15 - 0.25
QERQTQAVLQ	AVADKVKEDSQVPATQTLQR	N-ter +28.03 Da, K +28.03 Da	33.2	80.3	4	2267.43	-0.58	0.03	AKA12_MOUSE		A-kinase anchor protein 12;	Germ cell lineage protein gercelin;Src-suppressed C kinase substrate;	0.25 - 0.75
QLAAQPSTYL	AVAEELENVSGKYFDGLR	N-ter +28.03 Da, K +28.03 Da	27.2	89.8	3	2052.24	-3.18	0.58	RDH13_MOUSE		Retinol dehydrogenase 13;		0.00 - 0.15
DDGLADLLFV	AVEEQYSCEYGSGR	N-ter +34.06 Da, C +57.02 Da	48.6	79.2	3	1667.86	-2.94	0.45	E9PX16_MOUSE				0.00 - 0.15
IIPASTGAAK	AVGKVIPELNGKLTGMAFR	N-ter +28.03 Da, K +28.03 Da	37.7	79.3	4	2084.38	0.01	0.00	G3P_MOUSE	F8WJL5_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.25 - 0.75
MGASGRLLR	AVIMGAPGSGKGTVSSR	N-ter +34.06 Da, K +34.06 Da	38.7	82.1	3	1642.09	-0.30	0.06	KAD3_MOUSE		GTP:AMP phosphotransferase, mitochondrial;	Adenylate kinase 3;Adenylate kinase 3 alpha-like 1;	0.25 - 0.75
QRLYAREATQ	AVLDKPETLSSDASTR	N-ter +28.03 Da, K +28.03 Da	19.3	90.9	3	1745.08	-4.32	0.86	ACADV_MOUSE		Very long-chain specific acyl-CoA dehydrogenase, mitochondrial;	MVLCAD;	0.00 - 0.15
GPEPTTDCFV	AVMHGETEGTVPGNALVVDPEKPFR	N-ter +28.03 Da, K +28.03 Da	35.6	66.0	4	2705.56	0.41	0.02	EHD2_MOUSE		EH domain-containing protein 2;		0.25 - 0.75
RSLLVIPNTL	AVNAAQDSTDLVAKLR	N-ter +28.03 Da, K +28.03 Da	41.5	59.9	3	1727.06	1.20	0.08	TCPA_MOUSE		T-complex protein 1 subunit alpha;	CCT-alpha;Tailless complex polypeptide 1A;Tailless complex polypeptide 1B;	0.75 - 0.85
VLTGFGMTLC	AVPIAQKSEPQSLSNEALMR	N-ter +28.03 Da, K +28.03 Da	33.1	92.8	4	2224.40	0.12	0.01	Q542V8_MOUSE	D3Z3K5_MOUSE			0.25 - 0.75
QKEKSPPDQS	AVPNTPPSTPVKLEEDLPQEPTSR	N-ter +28.03 Da, K +28.03 Da	30.9	72.9	4	2657.58	0.16	0.02	ADDA_MOUSE		Alpha-adducin;	Erythrocyte adducin subunit alpha;	0.25 - 0.75
LSLEVQELQA	AVRPLQLLGTCAELCR	N-ter +34.06 Da, C +57.02 Da	56.0	55.5	3	1890.14	-0.94	0.11	Q8BTE6_MOUSE				0.15 - 0.25
ERNEWQGKFL	AVSQNPGDVLTPVPTGSQEFGAADQQDDLR	N-ter +28.03 Da	42.9	81.4	4	3139.76	-1.89	0.21	GOGA2_MOUSE	E9PUQ5_MOUSE	Golgin subfamily A member 2;	130 kDa cis-Golgi matrix protein;	0.00 - 0.15
TGQAAPVLGL	AVSSELQIQQSFVPDECPR	N-ter +34.06 Da, C +57.02 Da	51.9	55.7	3	2223.23	-0.40	0.03	FKBP9_MOUSE		Peptidyl-prolyl cis-trans isomerase FKBP9;	63 kDa FK506-binding protein;FK506-binding protein 9;FKBP65RS;Rotamase;	0.25 - 0.75
VNVKTTSASR	AVSSLATAKGGPSEVR	N-ter +34.06 Da, K +34.06 Da	20.7	96.8	3	1597.10	0.37	0.07	DCLK1_MOUSE	Q8BRN4_MOUSE	Serine/threonine-protein kinase DCLK1;	Doublecortin-like and CAM kinase-like 1;Doublecortin-like kinase 1;	0.25 - 0.75
LSKDITANTW	AVTVDPCPSTNAKR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	25.1	101.1	3	1570.97	-2.74	0.37	PPR3A_MOUSE		Protein phosphatase 1 regulatory subunit 3A;	Protein phosphatase 1 glycogen-associated regulatory subunit;Protein phosphatase type-1 glycogen targeting subunit;	0.00 - 0.15
LWSAVGASNM	AVVTCGSVVKLLNTR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	31.2	46.6	3	1684.11	0.53	0.07	SDF2_MOUSE		Stromal cell-derived factor 2;		0.25 - 0.75
TISLQMGTNK	CASQVGMTAPGTR	N-ter +34.06 Da, C +57.02 Da	28.9	63.8	3	1368.76	-0.17	0.01	CNN2_MOUSE	D3Z7R6_MOUSE	Calponin-2;	Calponin H2, smooth muscle;Neutral calponin;	0.25 - 0.75
ARNLGRVGTK	CCTLPEDQR	N-ter +34.06 Da, C +57.02 Da	33.6	57.5	2	1211.62	0.29	0.05	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
MEPYS	CDTFVALPPATVGNR	N-ter +34.06 Da, C +57.02 Da	37.3	45.0	3	1650.94	-0.45	0.01	SCRN3_MOUSE	A2AWQ9_MOUSE	Secernin-3;		0.25 - 0.75
M	CEEETTALVCDNGSGLCKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	23.8	56.5	4	3055.50	4.17	0.39	ACTH_MOUSE	D3YZY0_MOUSE	Actin, gamma-enteric smooth muscle;	Alpha-actin-3;Gamma-2-actin;Smooth muscle gamma-actin;	0.85 - 1.00
HNLPGLFRCE	CEIGYELDR	N-ter +28.03 Da, C +57.02 Da	32.0	84.6	2	1181.64	0.12	0.02	FBN1_MOUSE	A2AQ53_MOUSE	Fibrillin-1;		0.25 - 0.75
WLLDHCQESY	CEPTVCQPTCYQR	N-ter +28.03 Da, C +57.02 Da	41.6	90.3	3	1725.88	3.83	1.04	E9Q2E9_MOUSE				0.85 - 1.00
TCCKAADKDT	CFSTEGPNLVTR	N-ter +28.03 Da, C +57.02 Da	31.3	64.7	3	1407.77	-0.34	0.02	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
SGGAAGATSL	CFVYPLDFAR	N-ter +34.06 Da, C +57.02 Da	32.1	44.9	2	1320.73	-1.94	0.15	ADT1_MOUSE	ADT2_MOUSE	ADP/ATP translocase 1;	ADP,ATP carrier protein 1;ADP,ATP carrier protein, heart/skeletal muscle isoform T1;Adenine nucleotide translocator 1;Solute carrier family 25 member 4;mANC1;	0.00 - 0.15
QAGRFHVNLL	CGEEQGADAALHFNPR	N-ter +28.03 Da, C +57.02 Da	66.2	72.0	3	1798.94	1.46	0.15	LEG7_MOUSE	Q9CRB1_MOUSE	Galectin-7;		0.85 - 1.00
SRTTSTTSTM	CGYYGNYYGGR	N-ter +28.03 Da, C +57.02 Da	30.7	60.4	2	1356.64	1.26	0.10	KR168_MOUSE	O09048_MOUSE	Keratin-associated protein 16-8;	Keratin-associated protein 16.8;	0.75 - 0.85
CRVPITPENP	CKEIIGGTSESEPMLSHTVR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	18.5	87.5	4	2298.40	-2.00	0.40	RN219_MOUSE		RING finger protein 219;		0.00 - 0.15
CQQVGGISTV	CQPVGGISTVCQPTCGVSR	N-ter +28.03 Da, C +57.02 Da	37.6	55.3	3	2090.09	2.29	0.13	E9Q2E9_MOUSE				0.85 - 1.00
KPTDGASSSN	CVTDISHLVR	N-ter +28.03 Da, C +57.02 Da	33.0	68.0	3	1226.73	2.29	0.11	NASP_MOUSE	B1AU75_MOUSE	Nuclear autoantigenic sperm protein;		0.85 - 1.00
AEFKAAFDMF	DADGGGDISVKELGTVMR	N-ter +34.06 Da, K +34.06 Da	32.4	88.0	3	1887.17	0.01	0.00	TNNC2_MOUSE		Troponin C, skeletal muscle;	STNC;	0.25 - 0.75
MQN	DAGEFVDLYVPR	N-ter +34.06 Da	33.8	73.3	3	1413.84	1.41	0.06	RS21_MOUSE		40S ribosomal protein S21;		0.75 - 0.85
LGVKSVQKLL	DAVDTYIPVPTR	N-ter +34.06 Da	44.4	30.2	2	1379.79	1.63	0.11	EFTU_MOUSE	D3YVN7_MOUSE	Elongation factor Tu, mitochondrial;		0.85 - 1.00
LPLLARLSAG	DCPCSEAALCQPIR	N-ter +28.03 Da, C +57.02 Da	43.3	56.6	3	1703.84	1.43	0.13	DIAC_MOUSE		Di-N-acetylchitobiase;		0.75 - 0.85
RPKVKREVKV	DCSEYLALSKR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	19.8	82.1	3	1408.88	1.05	0.06	Q8BM18_MOUSE	Q148R4_MOUSE			0.75 - 0.85
IFVKAVLVTG	DDEATILADNKCMCTR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	39.8	94.4	3	1980.13	-2.94	0.45	IGJ_MOUSE		Immunoglobulin J chain;		0.00 - 0.15

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	Quantile
VLLTFGFVRA	DDEVDVDGTVEEDLGKSR	N-ter +34.06 Da, K +34.06 Da	73.1	68.4	3	2045.15	0.62	0.09	ENPL_MOUSE		Endoplasmin;	94 kDa glucose-regulated protein;Endoplasmic reticulum resident protein 99;Heat shock protein 90 kDa beta member 1;Polymorphic tumor rejection antigen 1;Tumor rejection antigen gp96;	0.25 - 0.75
MTEAEQQQLI	DDHFLFDKPVSPLLLASGMAR	N-ter +34.06 Da, K +34.06 Da	30.3	117.7	4	2396.60	-0.06	0.00	KCRM_MOUSE	KCRB_MOUSE	Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
PPPCPGRELF	DDPSYVNIQNLDKAR	N-ter +28.03 Da, K +28.03 Da	38.7	76.0	3	1803.05	1.87	0.12	SHC1_MOUSE		SHC-transforming protein 1;	SHC-transforming protein A;Src homology 2 domain-containing-transforming protein C1;	0.85 - 1.00
DSELSTSELE	DDSISMGYKLQDLTDVQIMAR	N-ter +34.06 Da, K +34.06 Da	23.1	43.7	3	2466.38	-1.94	0.30	SLAI1_MOUSE	F7D4S5_MOUSE	SLAIN motif-containing protein 1;		0.00 - 0.15
EDEYTESYSD	DDSNMEDYPDPQSANPMNSSLLSLYR	N-ter +28.03 Da	21.0	69.3	4	2986.50	6.66	0.85	NVL_MOUSE		Nuclear valosin-containing protein-like;		0.85 - 1.00
TNLRDDIMRL	DDTVHVVIATPGR	N-ter +28.03 Da	22.0	96.4	3	1406.89	2.21	0.34	DDX6_MOUSE		Probable ATP-dependent RNA helicase DDX6;	ATP-dependent RNA helicase p54;DEAD box protein 6;Oncogene RCK homolog;	0.85 - 1.00
TWKLVSSENF	DDYMKEVGVGFATR	N-ter +34.06 Da, K +34.06 Da	36.2	77.0	3	1654.99	-0.03	0.00	FABP4_MOUSE		Fatty acid-binding protein, adipocyte;	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;	0.25 - 0.75
DVIRNAFACF	DEEATGTIQEDYLR	N-ter +28.03 Da	27.0	41.9	3	1666.84	0.85	0.05	ML12B_MOUSE		Myosin regulatory light chain 12B;	Myosin regulatory light chain 2-B, smooth muscle isoform;Myosin regulatory light chain 20 kDa;Myosin regulatory light chain MRLC2;	0.25 - 0.75
KAVLSAEKLR	DEEVHTGLGELLR	N-ter +28.03 Da	37.2	71.2	3	1494.87	1.51	0.15	SERPH_MOUSE		Serpin H1;	47 kDa heat shock protein;Collagen-binding protein;Serine protease inhibitor J6;	0.85 - 1.00
IENHEGVRRF	DEILEASDGIMVAR	N-ter +34.06 Da	42.8	68.4	3	1551.91	-1.03	0.04	KPYM_MOUSE		Pyruvate kinase isozymes M1/M2;	Pyruvate kinase muscle isozyme;	0.15 - 0.25
NFASQMSYGY	DEKSAGVSVPGPMGPSGPR	N-ter +34.06 Da, K +34.06 Da	36.0	75.3	3	1892.15	-2.40	0.25	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
DKDKSGFIEE	DELGSILKGFSSDAR	N-ter +28.03 Da, K +28.03 Da	25.2	90.1	3	1650.01	-0.17	0.03	PRVA_MOUSE		Parvalbumin alpha;		0.25 - 0.75
DDFRFASAGD	DGIIVVWNAQTGEKLLELR	N-ter +28.03 Da, K +28.03 Da	16.7	112.4	4	2209.50	2.04	0.10	WDR41_MOUSE	B2RQV3_MOUSE	WD repeat-containing protein 41;		0.85 - 1.00
SASNRIIAAK	DHASIQMNVAEVDR	N-ter +28.03 Da	33.8	94.7	3	1611.92	0.14	0.02	RS21_MOUSE		40S ribosomal protein S21;		0.25 - 0.75
MDD	DIAALVVDNGSGMCKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	49.4	87.1	4	2562.44	-0.49	0.09	ACTB_MOUSE	E9Q1F2_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.25 - 0.75
LLFWIPASRG	DILLTQSPAILSVSPGER	N-ter +28.03 Da	49.6	73.1	3	1923.21	-0.62	0.11	KV5A9_MOUSE		Ig kappa chain V-V region L7;		0.25 - 0.75
LLLWFPGARC	DIQMTQSPSSLSASLGER	N-ter +28.03 Da	56.8	73.8	3	1934.08	-1.03	0.19	KV5A7_MOUSE	KV5A8_MOUSE	Ig kappa chain V-V region MOPC 41;		0.15 - 0.25
PMSRRTEISI	DISSKQVESTASAAGPSR	N-ter +28.03 Da, K +28.03 Da	40.7	88.0	3	1846.11	-0.79	0.12	SEPT9_MOUSE	A2A6U3_MOUSE	Septin-9;	SL3-3 integration site 1 protein;	0.15 - 0.25
QQLIDDHFLF	DKPVSPLLLASGMAR	N-ter +34.06 Da, K +34.06 Da	37.5	49.2	3	1622.07	0.83	0.07	KCRM_MOUSE	KCRB_MOUSE	Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
NRVYKEMYKT	DLEKDIISDTSGDFR	N-ter +34.06 Da, K +34.06 Da	24.2	75.8	3	1778.07	-1.89	0.14	ANXA2_MOUSE	B0V2N7_MOUSE	Annexin A2;	Annexin II;Annexin-2;Calpactin I heavy chain;Calpactin-1 heavy chain;Chromobindin-8;Lipocortin II;Placental anticoagulant protein IV;Protein I;p36;	0.00 - 0.15
QKEVNENFAI	DLIAQQPVNEVEHR	N-ter +28.03 Da	24.2	86.9	3	1675.01	-0.69	0.10	NDUS6_MOUSE	D3YW32_MOUSE	NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial;	Complex I-13kD-A;NADH-ubiquinone oxidoreductase 13 kDa-A subunit;	0.25 - 0.75
HHDYNTYTFL	DLNLDLSKFR	N-ter +34.06 Da, K +34.06 Da	24.3	50.2	3	1287.85	-0.86	0.09	NDUV3_MOUSE	Q3U422_MOUSE	NADH dehydrogenase [ubiquinone] flavoprotein 3, mitochondrial;	Complex I-9kD;NADH-ubiquinone oxidoreductase 9 kDa subunit;	0.15 - 0.25
GGSLVSMLAR	DLPAAAAPAGPASFAR	N-ter +28.03 Da	52.5	64.2	3	1509.89	4.97	0.80	6PGL_MOUSE	Q8CBG6_MOUSE	6-phosphogluconolactonase;		0.85 - 1.00
LTSESSRPTR	DLSSSDLSTASKIVK	N-ter +28.03 Da, K +28.03 Da	43.6	76.2	3	1634.04	1.31	0.18	A2M_MOUSE	D3YW52_MOUSE	Alpha-2-macroglobulin;	Pregnancy zone protein;	0.75 - 0.85
RKTRVSGEHM	DLTTCPLAAGGQQEKLR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	42.8	67.6	3	1925.20	2.33	0.20	Q9D1B1_MOUSE				0.85 - 1.00
CEEETTALVC	DNGSGLCKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	38.0	96.3	3	1863.04	-3.18	0.58	ACTA_MOUSE	ACTH_MOUSE	Actin, aortic smooth muscle;	Alpha-actin-2;	0.00 - 0.15
DDEETTALVC	DNGSGLVKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da	49.5	83.9	3	1802.05	-1.29	0.16	ACTC_MOUSE	ACTS_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.15 - 0.25
NKNMKRGKSL	DNLIKVTPEVNR	N-ter +28.03 Da, K +28.03 Da	30.8	74.9	3	1452.94	1.65	0.13	SCEL_MOUSE		Sciellin;		0.85 - 1.00
QDSILMKDKS	DNLYNNIINR	N-ter +28.03 Da	21.6	88.1	3	1275.77	0.43	0.01	HSF3_MOUSE	Q8BL67_MOUSE	Heat shock factor protein 3;	Heat shock transcription factor 3;	0.25 - 0.75
KSKENPRNFS	DNQLQEGKNVIGLQMGTNR	N-ter +28.03 Da, K +28.03 Da	36.2	68.6	3	2170.27	0.61	0.07	TAGL2_MOUSE		Transgelin-2;	SM22-beta;	0.25 - 0.75
LLGLLGLAAA	DPAIYFKEQFLDGDAWTNR	N-ter +28.03 Da, K +28.03 Da	27.9	96.5	4	2341.36	-1.47	0.12	CALR_MOUSE		Calreticulin;	CRP55;Calregulin;Endoplasmic reticulum resident protein 60;HACBP;	0.15 - 0.25
LLTACLASRA	DPASTLPDIQVQENFSESR	N-ter +34.06 Da	51.0	66.3	3	2166.21	-0.30	0.05	AMBP_MOUSE		Protein AMBP;		0.25 - 0.75
VPTANAALPA	DPPASVVVGPVVVPR	N-ter +28.03 Da	50.3	75.4	3	1515.00	0.74	0.05	FETUA_MOUSE		Alpha-2-HS-glycoprotein;	Countertrypin;Fetuin-A;	0.25 - 0.75
PTSYPEPSKL	DPTSVTLKPMEIR	N-ter +34.06 Da, K +34.06 Da	24.1	84.5	3	1554.04	0.68	0.04	MA2B1_MOUSE		Lysosomal alpha-mannosidase;	Lysosomal acid alpha-mannosidase;Mannosidase alpha class 2B member 1;Mannosidase alpha-B;	0.25 - 0.75
LLVILPATGS	DPVLCFTQYEESSGR	N-ter +34.06 Da, C +57.02 Da	45.7	67.5	3	1820.97	0.57	0.02	PROP_MOUSE		Properdin;	Complement factor P;	0.25 - 0.75
SWASRNEAAP	DQDEIDCLPGLAKQPSFR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	38.3	53.2	3	2144.17	0.19	0.01	PPGB_MOUSE	A2A5J9_MOUSE	Lysosomal protective protein;	Carboxypeptidase C;Carboxypeptidase L;Cathepsin A;Protective protein cathepsin A;Protective protein for beta-galactosidase;	0.25 - 0.75
GLPGLAGLHG	DQGAPGPVGPAGPR	N-ter +28.03 Da	46.6	47.1	2	1302.73	-0.11	0.01	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.25 - 0.75
DVQETDTSQK	DQSPASHEIATNLGDFAISLYR	N-ter +28.03 Da	64.9	71.3	3	2432.37	0.28	0.08	A1AT1_MOUSE	A1AT2_MOUSE	Alpha-1-antitrypsin 1-1;	Alpha-1 protease inhibitor 1;Alpha-1-antiproteinase;Serine protease inhibitor 1-1;Serine protease inhibitor A1a;	0.25 - 0.75

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	Quantile
DVQETDTSQK	DQSPASHEIATNLGDFALR	N-ter +34.06 Da	45.4	65.8	3	2075.19	-0.94	0.05	A1AT4_MOUSE		Alpha-1-antitrypsin 1-4;	Alpha-1 protease inhibitor 4;Serine protease inhibitor 1-4;Serine protease inhibitor A1d;	0.15 - 0.25
EGSSNVFSMF	DQTQIQEFKEAFTVIDQNR	N-ter +28.03 Da, K +28.03 Da	44.8	92.8	4	2365.41	-2.74	0.37	MLRS_MOUSE	F6ULR7_MOUSE	Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.00 - 0.15
FWSLLAICAS	DSFRDQAVAIMR	N-ter +34.06 Da	29.1	52.8	3	1441.83	-0.36	0.03	DPEP1_MOUSE		Dipeptidase 1;	Membrane-bound dipeptidase 1;Microsomal dipeptidase;Renal dipeptidase;	0.25 - 0.75
QTRGFVSDSS	DSMDTGAGSIR	N-ter +28.03 Da	40.0	77.5	2	1136.60	0.94	0.04	ATIF1_MOUSE	Q9D879_MOUSE	ATPase inhibitor, mitochondrial;	Inhibitor of F(1)F(o)-ATPase;	0.75 - 0.85
PRQPSPSQSS	DSQVHSGVQVEGR	N-ter +28.03 Da	38.7	101.1	3	1424.85	2.94	0.45	E9Q019_MOUSE	FILA_MOUSE			0.85 - 1.00
KVLQTRGFVS	DSSDSMDTGAGSIR	N-ter +34.06 Da	46.7	52.1	2	1431.71	2.11	0.20	ATIF1_MOUSE	Q9D879_MOUSE	ATPase inhibitor, mitochondrial;	Inhibitor of F(1)F(o)-ATPase;	0.85 - 1.00
DVEPDTYCRY	DSVSVFNGAVSDDSKR	N-ter +28.03 Da, K +28.03 Da	61.0	85.5	3	1738.00	-0.07	0.01	PCOC1_MOUSE	D3YZE3_MOUSE	Procollagen C-endopeptidase enhancer 1;	P14;Procollagen COOH-terminal proteinase enhancer 1;Type 1 procollagen C-proteinase enhancer protein;Type I procollagen COOH-terminal proteinase enhancer;	0.25 - 0.75
QGVMVGMGQK	DSYVGDEAQSKR	N-ter +34.06 Da, K +34.06 Da	31.3	96.3	3	1421.88	0.30	0.06	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
RHNRIKEIGA	DTFSQLGSLQALDLSWNAIR	N-ter +34.06 Da	42.1	48.9	3	2268.31	-3.32	0.66	LGR6_MOUSE	D3Z6S4_MOUSE	Leucine-rich repeat-containing G-protein coupled receptor 6;		0.00 - 0.15
PKKQALYLMF	DTPQESPVKSPPVR	N-ter +28.03 Da, K +28.03 Da	29.9	96.7	3	1592.01	0.60	0.06	TACC2_MOUSE	E9Q8T1_MOUSE	Transforming acidic coiled-coil-containing protein 2;		0.25 - 0.75
LTKYKKTLLG	DVPVVADPTVPNVTVTR	N-ter +34.06 Da	54.2	70.7	3	1812.15	-1.22	0.17	GDIR2_MOUSE		Rho GDP-dissociation inhibitor 2;	D4;Rho-GDI beta;	0.15 - 0.25
CCLVPSFLAE	DVQETDTSQKDQSPASHEIATNLGDFAISLYR	N-ter +34.06 Da, K +34.06 Da	46.7	84.6	4	3604.10	-1.40	0.18	A1AT1_MOUSE	A1AT2_MOUSE	Alpha-1-antitrypsin 1-1;	Alpha-1 protease inhibitor 1;Alpha-1-antiproteinase;Serine protease inhibitor 1-1;Serine protease inhibitor A1a;	0.15 - 0.25
LVLILKGVQC	DVQLVESGGGLVQPGGSR	N-ter +28.03 Da	43.9	33.4	3	1781.99	0.03	0.00	HVM16_MOUSE		Ig heavy chain V region MOPC 21;		0.25 - 0.75
TDKPLRLPLQ	DVYKIGGIGTVPVGR	N-ter +28.03 Da, K +28.03 Da	50.0	73.1	3	1586.03	-0.11	0.01	EF1A1_MOUSE	EF1A2_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.25 - 0.75
LVFAPVGVQS	DWLSISLPHR	N-ter +34.06 Da	34.3	84.1	3	1256.81	-0.84	0.03	Q9EQY5_MOUSE	D3YYJ5_MOUSE			0.15 - 0.25
HSGALQRQKR	DWVIPPINLPENSR	N-ter +28.03 Da	29.3	60.4	3	1676.99	1.04	0.14	CADH2_MOUSE	D3YYT0_MOUSE	Cadherin-2;	Neural cadherin;	0.75 - 0.85
VLHFGIAVLY	EACCVVLLLWLALFLSIQPR	N-ter +28.03 Da, C +57.02 Da	32.4	56.7	4	2428.48	4.06	0.38	MFS6L_MOUSE		Major facilitator superfamily domain-containing protein 6-like;		0.85 - 1.00
DGSASGTTLL	EALDCILPPTRPTDKPLR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	31.4	72.2	4	2159.40	1.58	0.06	EF1A1_MOUSE	D3YZ68_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.85 - 1.00
FEGRRSRRRR	EAPKVVEEQESR	N-ter +28.03 Da, K +28.03 Da	22.1	37.1	3	1455.81	0.14	0.00	CO4B_MOUSE		Complement C4-B;		0.25 - 0.75
GSYIYEKPQT	EAPQVTGPIEVPVVR	N-ter +28.03 Da	38.4	26.2	3	1617.95	-0.74	0.04	CRIP2_MOUSE		Cysteine-rich protein 2;	Heart LIM protein;	0.25 - 0.75
GTEAAAATVF	EAVPMSMPPILR	N-ter +28.03 Da	29.5	87.0	3	1367.85	-0.04	0.00	A1AT2_MOUSE		Alpha-1-antitrypsin 1-2;	Alpha-1 protease inhibitor 2;Alpha-1-antiproteinase;Serine protease inhibitor 1-2;Serine protease inhibitor A1b;	0.25 - 0.75
LGTPRLGVQG	EDGLDFPEYDGVDR	N-ter +34.06 Da	39.9	20.8	2	1659.78	-1.18	0.14	CASQ1_MOUSE	E9Q489_MOUSE	Calsequestrin-1;	Calsequestrin, skeletal muscle isoform;	0.15 - 0.25
PKLPGRVAFG	EDIDLPETFDAR	N-ter +34.06 Da	38.8	38.3	2	1453.77	-5.64	0.00	CATB_MOUSE		Cathepsin B;	Cathepsin B1;	0.00 - 0.15
GATALLTHGQ	EDIPEVSCIHNGLR	N-ter +34.06 Da, C +57.02 Da	46.4	72.7	3	1671.97	0.76	0.04	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.25 - 0.75
SHIDKTLMLN	EDKPADDYSAVLQR	N-ter +34.06 Da, K +34.06 Da	33.5	82.8	3	1674.03	-1.47	0.16	SRCA_MOUSE		Sarcalumenin;		0.15 - 0.25
TLTAVHDAIL	EDLVFPSEIVGKR	N-ter +34.06 Da, K +34.06 Da	44.9	75.4	3	1556.04	2.38	0.23	RS7_MOUSE	F6SVV1_MOUSE	40S ribosomal protein S7;		0.85 - 1.00
LGTLPARAAH	EDPVEKVIEGFSR	N-ter +34.06 Da, K +34.06 Da	31.4	97.8	3	1572.04	0.43	0.02	SBSN_MOUSE	E9QPB2_MOUSE	Suprabasin;		0.25 - 0.75
LCCLVPSFLA	EDVQETDTSQKDQSPASHEIATNLGDFAISLYR	N-ter +34.06 Da, K +34.06 Da	31.3	86.9	4	3733.16	-1.69	0.76	A1AT1_MOUSE	A1AT2_MOUSE	Alpha-1-antitrypsin 1-1;	Alpha-1 protease inhibitor 1;Alpha-1-antiproteinase;Serine protease inhibitor 1-1;Serine protease inhibitor A1a;	0.00 - 0.15
LCCLVPSFLA	EDVQETDTSQKDQSPASHEIATNLGDFALR	N-ter +34.06 Da, K +34.06 Da	47.7	44.3	3	3369.81	-0.81	0.06	A1AT4_MOUSE		Alpha-1-antitrypsin 1-4;	Alpha-1 protease inhibitor 4;Serine protease inhibitor 1-4;Serine protease inhibitor A1d;	0.15 - 0.25
ARQASRSTAY	EDYYYHPPPR	N-ter +28.03 Da	24.9	71.3	3	1363.72	2.04	0.32	Q8VHM5_MOUSE				0.85 - 1.00
LVQDVANNTN	EEAGDGTTTATVLAR	N-ter +34.06 Da	32.0	75.8	3	1524.90	-0.04	0.00	CH60_MOUSE	D3Z2F2_MOUSE	60 kDa heat shock protein, mitochondrial;	60 kDa chaperonin;Chaperonin 60;HSP-65;Heat shock protein 60;Mitochondrial matrix protein P1;	0.25 - 0.75
SGLLLTLTQG	EEAQEIDCNDEAVFQAVDASLKKLNAR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	46.7	111.6	4	3146.91	-3.18	0.58	Q6S9I3_MOUSE	Q6S9I2_MOUSE			0.00 - 0.15
M	EEEIAALVIDNGSGMCKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	28.6	55.2	4	2979.54	0.71	0.05	ACTG_MOUSE	B1ATY1_MOUSE	Actin, cytoplasmic 2;	Gamma-actin;	0.25 - 0.75
EDEKAAAEIY	EEFLAAFEGSDGNKVKTFVR	N-ter +28.03 Da, K +28.03 Da	30.7	75.4	4	2327.39	0.70	0.06	SR140_MOUSE	E9QM87_MOUSE	U2 snRNP-associated SURP motif-containing protein;	140 kDa Ser/Arg-rich domain protein;U2-associated protein SR140;	0.25 - 0.75
GHACTQKFSN	EEIAMATVTALR	N-ter +28.03 Da	44.5	29.2	2	1331.75	-0.45	0.04	ALDOA_MOUSE	ALDOC_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
MPCKI	EEIKDFLLTAR	N-ter +34.06 Da, K +34.06 Da	29.5	58.9	3	1401.93	0.14	0.01	RL38_MOUSE		60S ribosomal protein L38;		0.25 - 0.75
LLILSGELYA	EEKQCDFPTVENGR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	32.7	66.3	3	1776.00	0.21	0.02	F13B_MOUSE	B1AY02_MOUSE	Coagulation factor XIII B chain;	Protein-glutamine gamma-glutamyltransferase B chain;Transglutaminase B chain;	0.25 - 0.75
PHLHSYKEAF	EEMEGTSPSSPPHSVAR	N-ter +28.03 Da	66.4	100.5	3	1825.02	-0.25	0.04	E9Q0S6_MOUSE	E9Q6Y2_MOUSE			0.25 - 0.75
ERGNPVIAQW	EEVEDASEEAPLRDR	N-ter +34.06 Da	30.0	77.1	3	1777.99	-2.18	0.20	SRCA_MOUSE		Sarcalumenin;		0.00 - 0.15
ERGNPVIAQW	EEVEDASEEAPLR	N-ter +34.06 Da	56.6	40.8	2	1506.79	-1.52	0.17	SRCA_MOUSE		Sarcalumenin;		0.00 - 0.15
AVLSAEKLRD	EEVHTGLGELLR	N-ter +34.06 Da	24.4	57.8	3	1385.85	0.71	0.06	SERPH_MOUSE		Serpin H1;	47 kDa heat shock protein;Collagen-binding protein;Serine protease inhibitor J6;	0.25 - 0.75

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	Quantile
FRHACVPVDF	EEVHVSSNADEEDIR	N-ter +28.03 Da	45.4	79.5	3	1755.93	1.09	0.18	IDHG1_MOUSE	Q3TKM5_MOUSE	Isocitrate dehydrogenase [NAD] subunit gamma 1, mitochondrial;	Isocitric dehydrogenase subunit gamma;NAD(+)-specific ICDH subunit gamma;	0.75 - 0.85
TEEHHLRDYF	EEYGKIDTIEIITDR	N-ter +34.06 Da, K +34.06 Da	34.4	79.8	3	1862.18	-0.04	0.01	ROA2_MOUSE	F6U106_MOUSE	Heterogeneous nuclear ribonucleoproteins A2/B1;		0.25 - 0.75
EVTDRAYTGR	EFDDLPLAEQR	N-ter +28.03 Da	28.5	49.2	3	1359.73	0.16	0.00	AT2A1_MOUSE		Sarcoplasmic/endoplasmic reticulum calcium ATPase 1;	Calcium pump 1;Calcium-transporting ATPase sarcoplasmic reticulum type, fast twitch skeletal muscle isoform;Endoplasmic reticulum class 1/2 Ca(2+) ATPase;	0.25 - 0.75
RLSLESEGAN	EGATAAPELSALEEAFR	N-ter +28.03 Da	45.2	30.9	2	1788.95	0.71	0.14	TPPP_MOUSE		Tubulin polymerization-promoting protein;		0.25 - 0.75
IIRNVKGPVQ	EGDVLTLLESER	N-ter +28.03 Da	45.5	37.8	2	1387.77	0.99	0.06	RS28_MOUSE	D3YVD9_MOUSE	40S ribosomal protein S28;		0.75 - 0.85
KKAGHPFMWN	EHLGYVLTCPSNLGTGLR	N-ter +28.03 Da, C +57.02 Da	42.6	81.7	3	2014.20	-2.84	0.61	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
DAYGPPSNFL	EIDVSNPQTVGVGR	N-ter +28.03 Da	27.9	45.8	3	1497.85	0.88	0.06	SNX3_MOUSE	Q78ZM0_MOUSE	Sorting nexin-3;	SDP3 protein;	0.75 - 0.85
DPLNNLGRTL	EIPGSSDPNIVPDGDFSSLVR	N-ter +28.03 Da	35.8	74.1	3	2228.26	0.38	0.04	CO4B_MOUSE		Complement C4-B;		0.25 - 0.75
NLVKTNCDLY	EKLGEYGFQNAILVR	N-ter +28.03 Da, K +28.03 Da	29.7	71.2	3	1792.12	-0.49	0.02	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
LLAVLPTTTA	EKNGIDIYSLTVDSR	N-ter +34.06 Da, K +34.06 Da	45.9	57.5	3	1777.09	1.08	0.06	Q9DBK8_MOUSE	Q8C7G9_MOUSE			0.75 - 0.85
KLPSLAFLYM	EKNQLEEVPSALPR	N-ter +34.06 Da, K +34.06 Da	33.2	67.8	3	1677.09	-0.52	0.04	PRELP_MOUSE		Prolargin;	Proline-arginine-rich end leucine-rich repeat protein;	0.25 - 0.75
NIGGAGSYIY	EKPQTEAPQVTGPIEVPVVR	N-ter +28.03 Da, K +28.03 Da	21.4	66.2	4	2229.38	3.43	0.11	CRIP2_MOUSE		Cysteine-rich protein 2;	Heart LIM protein;	0.85 - 1.00
AIPNLRENYG	ELADCCTKQEPER	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	21.6	101.3	3	1703.00	-2.74	0.37	ALBU_MOUSE		Serum albumin;		0.00 - 0.15
HIFCNTCSSN	ELALPSYPKPVR	N-ter +28.03 Da, K +28.03 Da	29.2	73.7	3	1424.94	0.43	0.03	RUFY1_MOUSE		RUN and FYVE domain-containing protein 1;	Rab4-interacting protein;	0.25 - 0.75
SAKSGDELQD	ELFELLGPEGLDLIEKLLQNR	N-ter +34.06 Da, K +34.06 Da	19.9	66.9	4	2506.64	-3.84	0.00	E9PZJ8_MOUSE				0.00 - 0.15
KPGAVQETTF	ELGGDVHSGTALPASR	N-ter +28.03 Da	41.0	101.7	3	1593.97	-0.62	0.07	AFAD_MOUSE	E9PYX7_MOUSE	Afadin;	Protein Af-6;	0.25 - 0.75
QKKRQNKDLM	ELQALIDSHFEAR	N-ter +34.06 Da	34.5	68.4	3	1561.94	0.25	0.02	TNNT3_MOUSE	A2A6J0_MOUSE	Troponin T, fast skeletal muscle;	Fast skeletal muscle troponin T;	0.25 - 0.75
RQMRHRSLAR	ELSGTIKEILGTAQSVGCNVDGR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	39.3	84.1	4	2459.48	1.42	0.15	RL12_MOUSE		60S ribosomal protein L12;		0.75 - 0.85
QTTALMAHLF	EMGFCDRQLNLRLLR	N-ter +28.03 Da, C +57.02 Da	28.2	56.7	3	1948.12	1.55	0.09	NBR1_MOUSE	A2A4N8_MOUSE	Next to BRCA1 gene 1 protein;	Membrane component chromosome 17 surface marker 2 homolog;Neighbor of BRCA1 gene 1 protein;	0.85 - 1.00
TDKHKTDLNH	ENLKGGDDLDPNYVLSSR	N-ter +34.06 Da, K +34.06 Da	39.3	68.5	3	2059.23	-1.56	0.14	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
DLLLTKPEMF	ENPLYGSVSSFPKLVPR	N-ter +28.03 Da, K +28.03 Da	27.1	66.6	3	1945.20	-0.38	0.03	SHIP1_MOUSE		Phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase 1;	Inositol polyphosphate-5-phosphatase of 145 kDa;SH2 domain-containing inositol-5'-phosphatase 1;p150Ship;	0.25 - 0.75
DKLCAIPNLR	ENYGELADCCTKQEPER	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	37.1	96.4	3	2154.14	-2.64	0.50	ALBU_MOUSE		Serum albumin;		0.00 - 0.15
TGHFMGKKSL	EPPSLSLVGTAPPNTPR	N-ter +28.03 Da	29.2	61.8	3	1760.06	0.35	0.01	NMB_MOUSE	D3Z621_MOUSE	Neuromedin-B;		0.25 - 0.75
LRSLFSSAEN	EPPVPLVGNWRPPQPVKGR	N-ter +34.06 Da, K +34.06 Da	23.7	67.6	4	2190.45	-0.43	0.01	CAH3_MOUSE		Carbonic anhydrase 3;	Carbonate dehydratase III;Carbonic anhydrase III;	0.25 - 0.75
LQLVSWTLAA	EPVDVLEAWGVHR	N-ter +28.03 Da	46.1	92.9	3	1533.94	0.96	0.07	Q9JLI2_MOUSE				0.75 - 0.85
LLWAAACAQS	EQDFYDFKAVNIR	N-ter +28.03 Da, K +28.03 Da	20.5	59.9	3	1699.96	-1.03	0.13	GPX7_MOUSE	E9PVY3_MOUSE	Glutathione peroxidase 7;		0.15 - 0.25
LIWDNGMVLG	EQEVSDNELQELSTQGSR	N-ter +28.03 Da	58.6	45.5	3	2076.06	1.16	0.07	CLUS_MOUSE	E9Q9B8_MOUSE	Clusterin;	Apolipoprotein J;Clustrin;Sulfated glycoprotein 2;	0.75 - 0.85
GPPGSPGSPG	EQGPSGASGPAGPR	N-ter +34.06 Da	41.3	9.7	2	1300.67	-0.54	0.05	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.25 - 0.75
TLFQPSFIGM	ESAGIHETTYNSIMKCDIDIR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	26.1	66.9	4	2508.37	-1.12	0.15	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.15 - 0.25
RTLPRDAVEK	ESALSPGEDVQR	N-ter +34.06 Da	30.9	75.3	3	1320.77	-0.86	0.05	PCOC1_MOUSE	D3YUE2_MOUSE	Procollagen C-endopeptidase enhancer 1;	P14;Procollagen COOH-terminal proteinase enhancer 1;Type 1 procollagen C-proteinase enhancer protein;Type I procollagen COOH-terminal proteinase enhancer;	0.15 - 0.25
GPRGERGTPG	ESGAAGPSGPIGSR	N-ter +34.06 Da	55.3	48.1	2	1275.72	1.44	0.23	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.85 - 1.00
FIVFFSYSKC	ESLQTSLLHAAR	N-ter +28.03 Da	38.0	53.8	3	1352.81	1.48	0.07	F8VQ07_MOUSE				0.85 - 1.00
RSPRRSPVHP	ESSEGEEHSVVPQR	N-ter +34.06 Da	30.7	90.5	3	1602.92	-5.64	2.82	FILA2_MOUSE	FILA2_MOUSE	Filaggrin-2;	Intermediate filament-associated protein;	0.00 - 0.15
GPAGKNGDRG	ETGPAGPAGPIGPAGAR	N-ter +28.03 Da	42.7	51.5	3	1502.86	1.47	0.09	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.85 - 1.00
RRSGRLLTRW	ETTSSIPEAGEGQIR	N-ter +34.06 Da	38.4	62.6	3	1607.92	0.75	0.08	ISCA2_MOUSE		Iron-sulfur cluster assembly 2 homolog, mitochondrial;	HESB-like domain-containing protein 1;	0.25 - 0.75
LASLLLSGQA	EVEDASEEAPLR	N-ter +34.06 Da	42.4	48.3	2	1377.75	-1.64	0.10	SRCA_MOUSE		Sarcalumenin;		0.00 - 0.15
FSRGLSNAER	EVGKALEGINNGITQAGR	N-ter +34.06 Da, K +34.06 Da	43.4	48.2	3	1894.18	-1.32	0.13	SBSN_MOUSE	E9QPB2_MOUSE	Suprabasin;		0.15 - 0.25
VLSAEKLRDE	EVHTGLGELLR	N-ter +34.06 Da	38.0	48.5	3	1256.79	0.70	0.07	SERPH_MOUSE		Serpin H1;	47 kDa heat shock protein;Collagen-binding protein;Serine protease inhibitor J6;	0.25 - 0.75
RLVDSDGSLA	EVPKEAPKVGILGSGDFAR	N-ter +34.06 Da, K +34.06 Da	42.1	61.3	4	2071.38	0.92	0.07	STEA3_MOUSE	E9QN92_MOUSE	Metalloreductase STEAP3;	Dudulin-2;Protein nm1054;Six-transmembrane epithelial antigen of prostate 3;Tumor suppressor-activated pathway protein 6;	0.75 - 0.85
LMAVVIGINS	EVQLQQSGAELVR	N-ter +34.06 Da	40.8	39.9	3	1489.89	0.31	0.02	HVM02_MOUSE		Ig heavy chain V region 93G7;		0.25 - 0.75
DKRSALQSIN	EWASQTTDGKLPEVTKDVER	N-ter +34.06 Da, K +34.06 Da	33.3	82.0	4	2390.51	0.89	0.09	SERPH_MOUSE		Serpin H1;	47 kDa heat shock protein;Collagen-binding protein;Serine protease inhibitor J6;	0.75 - 0.85
VTASKAIIEK	EYQPHVIVSTTGPNPFNTLTDR	N-ter +34.06 Da	26.6	112.4	4	2519.57	-2.40	0.13	ADDA_MOUSE	E9Q1K3_MOUSE	Alpha-adducin;	Erythrocyte adducin subunit alpha;	0.00 - 0.15

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	Quantile
LESEATNLRS	FAAGQEPDASAASGR	N-ter +34.06 Da	22.7	73.0	3	1467.82	-0.30	0.02	SENP7_MOUSE	E9Q1L5_MOUSE	Sentrin-specific protease 7;	SUMO-1-specific protease 2;Sentrin/SUMO-specific protease SENP7;	0.25 - 0.75
EIFDKARVLF	FDELDSIAKAR	N-ter +34.06 Da, K +34.06 Da	17.2	62.8	3	1331.86	0.99	0.05	TERA_MOUSE		Transitional endoplasmic reticulum ATPase;	15S Mg(2+)-ATPase p97 subunit;Valosin-containing protein;	0.75 - 0.85
VVKGEKILPV	FDEPPNPTNVEESLKR	N-ter +28.03 Da, K +28.03 Da	26.0	75.6	3	1927.11	0.06	0.01	TMOD3_MOUSE		Tropomodulin-3;	Ubiquitous tropomodulin;	0.25 - 0.75
ESEKVKITKV	FDFAGEEVR	N-ter +34.06 Da	23.3	53.6	2	1102.61	0.97	0.11	CFDP1_MOUSE		Craniofacial development protein 1;	27 kDa craniofacial protein;Bucentaur;Protein Cp27;	0.75 - 0.85
MVNPTVF	FDITADDEPLGR	N-ter +34.06 Da	31.2	27.0	2	1381.73	1.70	0.12	PPIA_MOUSE	E9Q1E3_MOUSE	Peptidyl-prolyl cis-trans isomerase A;	Cyclophilin A;Cyclosporin A-binding protein;Rotamase A;SP18;	0.85 - 1.00
KDGRHCCLKC	FDKFCANTCVDCR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	33.0	54.9	3	1759.91	-2.00	0.16	FHL1_MOUSE	A2AEX8_MOUSE	Four and a half LIM domains protein 1;	KyoT;RBP-associated molecule 14-1;Skeletal muscle LIM-protein 1;	0.00 - 0.15
QQQLIDDHFL	FDKPVSPLLLASGMAR	N-ter +34.06 Da, K +34.06 Da	35.8	83.8	3	1769.20	-1.25	0.06	KCRM_MOUSE	KCRB_MOUSE	Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.15 - 0.25
KGPKVTVKVY	FDLQIGDESVGR	N-ter +34.06 Da	28.3	34.9	2	1368.76	-0.67	0.02	PPIB_MOUSE		Peptidyl-prolyl cis-trans isomerase B;	CYP-S1;Cyclophilin B;Rotamase B;S-cyclophilin;	0.25 - 0.75
TEGVKGAKNF	FEAKVQAINVSSR	N-ter +28.03 Da, K +28.03 Da	28.8	50.0	3	1503.92	0.32	0.02	EFHD2_MOUSE	Q8C845_MOUSE	EF-hand domain-containing protein D2;	Swiprosin-1;	0.25 - 0.75
FDLYRNSIEF	FEEISDEASKLVDR	N-ter +28.03 Da, K +28.03 Da	27.2	68.0	3	1692.97	-0.36	0.02	ANK2_MOUSE	F6Z2A0_MOUSE	Ankyrin-2;	Brain ankyrin;	0.25 - 0.75
DTEEHHLRDY	FEEYGKIDTIEIITDR	N-ter +28.03 Da, K +28.03 Da	17.9	83.8	3	1997.20	-2.94	0.45	ROA2_MOUSE	F6U106_MOUSE	Heterogeneous nuclear ribonucleoproteins A2/B1;		0.00 - 0.15
KSIIMYLTSL	FEVLPQQVTIDAIR	N-ter +28.03 Da	37.1	62.1	3	1656.03	-0.18	0.01	Q3TR59_MOUSE	E9Q6R7_MOUSE			0.25 - 0.75
REIFDKARVL	FFDELDSIAKAR	N-ter +28.03 Da, K +28.03 Da	22.7	56.6	3	1466.86	0.38	0.02	TERA_MOUSE		Transitional endoplasmic reticulum ATPase;	15S Mg(2+)-ATPase p97 subunit;Valosin-containing protein;	0.25 - 0.75
EQALEDHFSS	FGPISEVVVVKDR	N-ter +34.06 Da, K +34.06 Da	24.5	54.9	3	1512.02	1.95	0.16	RBM3_MOUSE	Q8BG13_MOUSE	Putative RNA-binding protein 3;	RNA-binding motif protein 3;	0.85 - 1.00
VAGDEESYTV	FKDLFDPIIQDR	N-ter +34.06 Da, K +34.06 Da	30.3	80.9	3	1574.04	-1.56	0.14	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
VARGKLHVLL	FKEETEIPAR	N-ter +34.06 Da, K +34.06 Da	30.0	59.0	3	1286.83	1.23	0.15	PRDBP_MOUSE		Protein kinase C delta-binding protein;	Cavin-3;Serum deprivation response factor-related gene product that binds to C-kinase;	0.75 - 0.85
EEFDARWVTY	FNKPDIDAWELR	N-ter +28.03 Da, K +28.03 Da	44.4	59.7	3	1558.91	-0.30	0.03	COX5A_MOUSE		Cytochrome c oxidase subunit 5A, mitochondrial;	Cytochrome c oxidase polypeptide Va;	0.25 - 0.75
VLRPPGGGSN	FSLGFDEPAEQPVR	N-ter +28.03 Da	38.1	50.6	3	1618.88	0.79	0.01	HN1_MOUSE		Hematological and neurological expressed 1 protein;		0.25 - 0.75
PPVRNLHQSG	FSLSGAQIDDNIPR	N-ter +34.06 Da	35.2	58.6	3	1565.92	1.20	0.06	DPYL2_MOUSE		Dihydropyrimidinase-related protein 2;	Unc-33-like phosphoprotein 2;	0.75 - 0.85
QLQDMGLIDL	FSPEKSQLPGIVAGGR	N-ter +34.06 Da, K +34.06 Da	20.1	93.7	3	1710.17	0.10	0.02	ANT3_MOUSE		Antithrombin-III;	Serpin C1;	0.25 - 0.75
SAGADEIGKL	FVGGLDWSTTQETLR	N-ter +28.03 Da	38.5	66.3	3	1736.99	0.21	0.01	DAZP1_MOUSE	Q3UGB5_MOUSE	DAZ-associated protein 1;	Deleted in azoospermia-associated protein 1;	0.25 - 0.75
RYLSPKYIKM	FVLDEADEMLSR	N-ter +28.03 Da	38.2	63.8	3	1451.79	0.71	0.09	IF4A1_MOUSE	IF4A2_MOUSE	Eukaryotic initiation factor 4A-I;	ATP-dependent RNA helicase eIF4A-1;	0.25 - 0.75
LDRHANTIRL	FVLLPEQSPGSYSKR	N-ter +28.03 Da, K +28.03 Da	32.7	67.3	3	1763.08	-0.94	0.09	UBP47_MOUSE	F6ZD38_MOUSE	Ubiquitin carboxyl-terminal hydrolase 47;	Deubiquitinating enzyme 47;Ubiquitin thiolesterase 47;Ubiquitin-specific-processing protease 47;	0.15 - 0.25
HRDDGLADLL	FVSSGPTNASAFTER	N-ter +34.06 Da	42.5	62.0	3	1603.91	0.07	0.01	MAP4_MOUSE	E9QPW8_MOUSE	Microtubule-associated protein 4;		0.25 - 0.75
GPPPPAGGGG	GAAGAGGGPPPGPPGAGDR	N-ter +34.06 Da	43.8	65.7	3	1548.89	-0.03	0.00	FUBP2_MOUSE		Far upstream element-binding protein 2;	KH type-splicing regulatory protein;	0.25 - 0.75
LGNVLGGLIS	GAAGGGGGGGGMGLGGGGGGGTAMR	N-ter +34.06 Da	65.6	66.9	3	1981.04	0.12	0.02	D3YW48_MOUSE				0.25 - 0.75
LLRGPPVARA	GAGAVGAGPVVR	N-ter +28.03 Da	47.7	38.0	2	1037.64	0.06	0.01	Q6PE62_MOUSE				0.25 - 0.75
RNLHKTAVHN	GAGGALFVHR	N-ter +28.03 Da	51.4	53.2	2	1011.62	-0.34	0.06	NDUV2_MOUSE		NADH dehydrogenase [ubiquinone] flavoprotein 2, mitochondrial;	NADH-ubiquinone oxidoreductase 24 kDa subunit;	0.25 - 0.75
SMVAQAMGVY	GALTKAPVPGAQNSSQSR	N-ter +28.03 Da, K +28.03 Da	45.1	87.6	3	1824.15	-2.84	0.61	STML2_MOUSE		Stomatin-like protein 2;		0.00 - 0.15
ATPKQGPRML	GAPEEADANEEGVR	N-ter +28.03 Da	36.6	68.1	3	1470.76	0.47	0.04	CYTC_MOUSE	A2APX3_MOUSE	Cystatin-C;	Cystatin-3;	0.25 - 0.75
RVAGPQPAQT	GAPQGSLGEYLFER	N-ter +28.03 Da	33.4	71.0	3	1550.88	0.82	0.04	FRIL1_MOUSE	Q9CPX4_MOUSE	Ferritin light chain 1;	Ferritin L subunit 1;	0.25 - 0.75
ESEGIGDSNF	GAPSASVAAAPAPAR	N-ter +34.06 Da	36.7	63.9	3	1326.83	-0.42	0.04	AP1B1_MOUSE	Q8CC13_MOUSE	AP-1 complex subunit beta-1;	Adapter-related protein complex 1 subunit beta-1;Adaptor protein complex AP-1 subunit beta-1;Beta-1-adaptin;Beta-adaptin 1;Clathrin assembly protein complex 1 beta large chain;Golgi adaptor HA1/AP1 adaptin beta subunit;	0.25 - 0.75
AGSSSGSGVQ	GASAGGLAADASR	N-ter +34.06 Da	64.6	32.8	2	1136.64	0.32	0.03	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.25 - 0.75
TISLQMGTNK	GASQAGMLAPGTR	N-ter +28.03 Da	57.7	55.1	2	1243.70	-0.11	0.01	CNN3_MOUSE		Calponin-3;	Calponin, acidic isoform;	0.25 - 0.75
FAAGSGSALA	GCPGCGAGMQTGCR	N-ter +28.03 Da, C +57.02 Da	33.2	73.9	3	1495.69	-0.89	0.12	Q91X24_MOUSE				0.15 - 0.25
NPGHPFIMTV	GCVAGDEESYTVFKDLFDPIIQDR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	42.5	96.4	4	2841.69	-3.84	0.55	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
TMRQTYPLQR	GDEAATLLENLASER	N-ter +28.03 Da	23.8	71.6	3	1615.92	0.54	0.28	E9Q492_MOUSE	Q3V0V1_MOUSE			0.25 - 0.75
PASHEIATNL	GDFAISLYR	N-ter +28.03 Da	35.0	49.9	2	1068.61	1.12	0.03	A1AT1_MOUSE	A1AT2_MOUSE	Alpha-1-antitrypsin 1-1;	Alpha-1 protease inhibitor 1;Alpha-1-antiproteinase;Serine protease inhibitor 1-1;Serine protease inhibitor A1a;	0.75 - 0.85
EDERKMLTGS	GDPKEEEEEELVDPLTTVR	N-ter +34.06 Da, K +34.06 Da	29.4	67.5	3	2252.32	-0.04	0.01	QCR6_MOUSE		Cytochrome b-c1 complex subunit 6, mitochondrial;	Complex III subunit 6;Complex III subunit VIII;Cytochrome c1 non-heme 11 kDa protein;Mitochondrial hinge protein;Ubiquinol-cytochrome c reductase complex 11 kDa protein;	0.25 - 0.75
PGPVGPAGKN	GDRGETGPAGPAGPIGPAGAR	N-ter +34.06 Da	62.0	53.3	3	1894.09	1.54	0.24	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.85 - 1.00
LNDGDISLTY	GDSTVNTESATASAPR	N-ter +28.03 Da	27.8	95.9	3	1590.90	-0.42	0.06	B0QZV3_MOUSE	A1L3P4_MOUSE	Sodium/hydrogen exchanger;		0.25 - 0.75
DLNLKGSKVK	GDVDISGPKLEGDIKVPR	N-ter +34.06 Da, K +34.06 Da	17.3	58.7	4	1996.32	-0.42	0.04	E9Q616_MOUSE				0.25 - 0.75
SLTKYKKTLL	GDVPVVADPTVPNVTVTR	N-ter +28.03 Da	53.7	67.1	3	1863.13	-0.97	0.15	GDIR2_MOUSE		Rho GDP-dissociation inhibitor 2;	D4;Rho-GDI beta;	0.15 - 0.25
VLGVSEPVLA	GDVSSCDNPSGTEPSGTNR	N-ter +28.03 Da, C +57.02 Da	46.0	77.7	3	1963.97	0.21	0.06	Q9D140_MOUSE				0.25 - 0.75
AGRFHVNLLC	GEEQGADAALHFNPR	N-ter +34.06 Da	79.9	67.8	3	1644.92	1.43	0.12	LEG7_MOUSE	Q9CRB1_MOUSE	Galectin-7;		0.85 - 1.00

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	Quantile
MSDN	GELEDKPPAPPVR	N-ter +28.03 Da, K +28.03 Da	31.6	96.7	3	1459.95	2.66	0.19	PAK2_MOUSE		Serine/threonine-protein kinase PAK 2;	Gamma-PAK;p21-activated kinase 2;	0.85 - 1.00
ACGSVTMSNP	GESSFDLADR	N-ter +34.06 Da	44.5	53.5	2	1129.61	-0.56	0.05	SODE_MOUSE		Extracellular superoxide dismutase [Cu-Zn];		0.25 - 0.75
AWSKDINAYN	GETPTEKLPFPIIDDKGR	N-ter +34.06 Da, K +34.06 Da	23.5	81.4	4	2114.42	0.40	0.05	PRDX6_MOUSE	Q6GT24_MOUSE	Peroxiredoxin-6;	1-Cys peroxiredoxin;Acidic calcium-independent phospholipase A2;Antioxidant protein 2;Non-selenium glutathione peroxidase;	0.25 - 0.75
KGVVPLAGTN	GETTTQGLDGLSER	N-ter +28.03 Da	42.5	67.6	3	1490.82	-0.34	0.04	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
KDLTEYLSRF	GEVVDCTIKTDPVTGR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	28.0	87.9	3	1814.15	-0.89	0.10	HNRDL_MOUSE	F6VQH5_MOUSE	Heterogeneous nuclear ribonucleoprotein D-like;	JKT41-binding protein;	0.15 - 0.25
DLHLKGPNVK	GEYDVTVPR	N-ter +34.06 Da	33.4	44.0	2	1068.61	0.01	0.00	E9Q616_MOUSE	F7BRM2_MOUSE			0.25 - 0.75
SKQNLPNPKV	GFCSGSGR	N-ter +34.06 Da, C +57.02 Da	8.0	43.9	2	860.44	-2.94	0.23	ALG13_MOUSE		UDP-N-acetylglucosamine transferase subunit ALG13 homolog;	Asparagine-linked glycosylation 13 homolog;Glycosyltransferase 28 domain-containing protein 1;	0.00 - 0.15
TLFGPKGVNI	GGAGSYIYEKPQTEAPQVTGPIEVPVVR	N-ter +28.03 Da, K +28.03 Da	48.1	86.8	4	2997.84	-1.32	0.10	CRIP2_MOUSE		Cysteine-rich protein 2;	Heart LIM protein;	0.15 - 0.25
GGNFGFGDSR	GGGGNFGPGPGSNFR	N-ter +28.03 Da	48.6	115.6	3	1404.82	1.01	0.05	ROA2_MOUSE	F6U106_MOUSE	Heterogeneous nuclear ribonucleoproteins A2/B1;		0.75 - 0.85
SNIKAAWGKI	GGHGAEYGAEALER	N-ter +34.06 Da	53.6	85.3	3	1449.83	-0.36	0.04	HBA_MOUSE	Q91VB8_MOUSE	Hemoglobin subunit alpha;	Alpha-globin;Hemoglobin alpha chain;	0.25 - 0.75
VQMGAVDLLG	GGLDSLIGDSNFGAPSASVAAAPAPAR	N-ter +28.03 Da	49.4	76.5	4	2496.45	0.19	0.02	AP1B1_MOUSE	Q5SVG5_MOUSE	AP-1 complex subunit beta-1;	Adapter-related protein complex 1 subunit beta-1;Adaptor protein complex AP-1 subunit beta-1;Beta-1-adaptin;Beta-adaptin 1;Clathrin assembly protein complex 1 beta large chain;Golgi adaptor HA1/AP1 adaptin beta subunit;	0.25 - 0.75
YGGGGGGGYG	GGSGGYGGGGGGYGGGEGYSISPNSYR	N-ter +34.06 Da	23.4	66.2	4	2460.24	-6.64	0.00	E9QNN1_MOUSE				0.00 - 0.15
GHPTSPPRPP	GGSIITVYPKEIR	N-ter +28.03 Da, K +28.03 Da	26.9	60.6	3	1487.96	0.01	0.00	MA2B2_MOUSE		Epididymis-specific alpha-mannosidase;	Mannosidase alpha class 2B member 2;	0.25 - 0.75
GFSSRSLYSL	GGSKSIFGNLVGR	N-ter +28.03 Da, K +28.03 Da	42.1	63.7	3	1346.85	-0.06	0.00	K2C1B_MOUSE		Keratin, type II cytoskeletal 1b;	Cytokeratin-1B;Embryonic type II keratin-1;Keratin-77;Type-II keratin Kb39;	0.25 - 0.75
PQQQQMTSSY	GGYKEPAAPVSIQR	N-ter +28.03 Da, K +28.03 Da	42.4	90.7	3	1527.98	0.62	0.11	LASP1_MOUSE	A2A6H0_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.25 - 0.75
DEEEGAGDEN	GHGEQQSQPPAAAAQQQPSQQR	N-ter +28.03 Da	19.3	118.7	4	2356.41	1.70	0.27	HNRPU_MOUSE		Heterogeneous nuclear ribonucleoprotein U;	Scaffold attachment factor A;	0.85 - 1.00
VCYGRRYGPK	GIGFGQGAGCLSTDTGEHLGLQFQQSPKPAR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	67.3	65.8	4	3281.90	-0.01	0.00	CSRP3_MOUSE		Cysteine and glycine-rich protein 3;	Cysteine-rich protein 3;LIM domain protein, cardiac;Muscle LIM protein;	0.25 - 0.75
NIKRNDFQLI	GIQDGYLSLLQDSGEVR	N-ter +34.06 Da	49.4	69.6	3	1883.12	1.01	0.19	IF5A1_MOUSE		Eukaryotic translation initiation factor 5A-1;	Eukaryotic initiation factor 5A isoform 1;eIF-4D;	0.75 - 0.85
LSVPCILGQN	GISDVVKVTLTPEEEAR	N-ter +34.06 Da, K +34.06 Da	45.1	57.7	3	1910.21	-0.69	0.09	LDHA_MOUSE		L-lactate dehydrogenase A chain;	LDH muscle subunit;	0.25 - 0.75
GISTVCQPVG	GISTVCQPTCGVSR	N-ter +28.03 Da, C +57.02 Da	28.0	80.7	3	1548.86	1.07	0.04	E9Q2E9_MOUSE				0.75 - 0.85
ARYASICQQN	GIVPIVEPEILPDGDHDLKR	N-ter +28.03 Da, K +28.03 Da	45.2	81.6	4	2267.44	-0.81	0.10	ALDOA_MOUSE	ALDOC_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.15 - 0.25
M	GKDYYQTLGLAR	N-ter +34.06 Da, K +34.06 Da	35.8	46.6	3	1451.91	2.15	0.19	DNJB1_MOUSE		DnaJ homolog subfamily B member 1;	Heat shock 40 kDa protein 1;	0.85 - 1.00
PSNQVIMLTF	GKFDVEPDTYCR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	29.9	68.1	3	1553.89	-6.64	0.00	PCOC1_MOUSE	D3YZE3_MOUSE	Procollagen C-endopeptidase enhancer 1;	P14;Procollagen COOH-terminal proteinase enhancer 1;Type 1 procollagen C-proteinase enhancer protein;Type I procollagen COOH-terminal proteinase enhancer;	0.00 - 0.15
KAENGKLVIN	GKPITIFQER	N-ter +28.03 Da, K +28.03 Da	29.8	52.2	3	1243.79	-0.36	0.01	G3P_MOUSE	F8WJL5_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.25 - 0.75
AEKAAVSCLW	GKVNSDEVGGEALGR	N-ter +34.06 Da, K +34.06 Da	45.1	77.9	3	1554.98	-0.01	0.00	HBB1_MOUSE		Hemoglobin subunit beta-1;	Beta-1-globin;Hemoglobin beta-1 chain;Hemoglobin beta-major chain;	0.25 - 0.75
PDFRDDRDDP	GLAPVAAATGPFLAR	N-ter +34.06 Da	19.0	84.6	3	1444.98	-1.94	0.15	KCNA7_MOUSE		Potassium voltage-gated channel subfamily A member 7;	Voltage-gated potassium channel subunit Kv1.7;	0.00 - 0.15
NPGHLSFRAL	GLDEGEPAGSWDLTVEGR	N-ter +34.06 Da	36.0	81.1	3	1921.08	-0.04	0.00	CPN2_MOUSE		Carboxypeptidase N subunit 2;	Carboxypeptidase N 83 kDa chain;Carboxypeptidase N large subunit;Carboxypeptidase N polypeptide 2;Carboxypeptidase N regulatory subunit;	0.25 - 0.75
VTVVRNLETY	GLDPCSVAAILQQR	N-ter +28.03 Da, C +57.02 Da	37.7	25.7	3	1554.86	-0.14	0.00	EIF2D_MOUSE	E9PUG7_MOUSE	Eukaryotic translation initiation factor 2D;	Ligatin;	0.25 - 0.75
SGLQGLPGLA	GLHGDQGAPGPVGPAGPR	N-ter +28.03 Da	38.6	80.7	3	1666.99	1.16	0.07	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.75 - 0.85
LIKGVDEGPN	GLKLISEVIGER	N-ter +34.06 Da, K +34.06 Da	35.8	43.2	3	1380.96	-0.43	0.01	GPDA_MOUSE	E0CXN5_MOUSE	Glycerol-3-phosphate dehydrogenase [NAD+], cytoplasmic;		0.25 - 0.75
TASHCLARGF	GLLGSNPADGVAWTCFR	N-ter +34.06 Da, C +57.02 Da	48.3	74.8	3	1854.07	-2.00	0.16	CAF17_MOUSE	B2FDE8_MOUSE	Putative transferase CAF17 homolog, mitochondrial;	Iron-sulfur cluster assembly factor homolog;	0.00 - 0.15
M	GLLSQGSPLSWEETQR	N-ter +28.03 Da	47.8	45.7	3	1815.00	0.52	0.04	GSH1_MOUSE		Glutamate--cysteine ligase catalytic subunit;	GCS heavy chain;Gamma-ECS;Gamma-glutamylcysteine synthetase;	0.25 - 0.75
M	GLPKGPEGQGLPEVETR	N-ter +34.06 Da, K +34.06 Da	31.1	49.8	3	1831.14	0.16	0.00	CCD93_MOUSE	E9Q9A4_MOUSE	Coiled-coil domain-containing protein 93;		0.25 - 0.75
NSQAFLSTNA	GLPPSYETIKEEYGVTELGEPSNSAVVR	N-ter +34.06 Da, K +34.06 Da	23.8	92.0	4	3088.91	4.86	1.08	IFM2_MOUSE		Interferon-induced transmembrane protein 2;	Fragilis protein 3;	0.85 - 1.00
ERRRQLAEKY	GLTLDPEADSEYLSR	N-ter +34.06 Da	41.8	28.6	2	1698.90	0.62	0.05	SVIL_MOUSE	Q8K4L2_MOUSE	Supervillin;	Archvillin;p205/p250;	0.25 - 0.75
KGYMRPTKSR	GLTPDLPKSASQER	N-ter +34.06 Da, K +34.06 Da	30.9	97.8	3	1566.06	-0.56	0.04	F7CK47_MOUSE		Microtubule-associated protein;		0.25 - 0.75
SSNTDSSSSP	GNSHTSSSSSSSSSSSSSSSR	N-ter +28.03 Da	9.3	9.4	4	2177.91	2.87	0.35	E9PXS2_MOUSE	F7D6F6_MOUSE			0.85 - 1.00
LAGLVFVSEA	GPAGAGESKCPLMVKVLDAVR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	34.0	69.5	3	2238.38	0.77	0.04	TTHY_MOUSE		Transthyretin;	Prealbumin;	0.25 - 0.75
SMPDVDLHLK	GPNVKGEYDVTVPR	N-ter +28.03 Da, K +28.03 Da	27.1	79.2	3	1585.97	-0.23	0.00	E9Q616_MOUSE	F7BRM2_MOUSE			0.25 - 0.75
DEEEPLPACN	GPTPAPASPAAEVGSQEEALSSSAQSPGR	N-ter +28.03 Da	36.5	78.0	4	2763.55	-2.06	0.17	D3Z6Q9_MOUSE				0.00 - 0.15
QDHPSSMGVY	GQESGGFSGPGENR	N-ter +34.06 Da	48.8	88.8	3	1411.78	0.53	0.05	EWS_MOUSE	Q5SUS8_MOUSE	RNA-binding protein EWS;		0.25 - 0.75
MYIFPVHWQF	GQLDQHPIDGYLSHTELAPLR	N-ter +34.06 Da	39.9	65.4	4	2393.41	-0.01	0.00	SPRC_MOUSE	Q5NCU4_MOUSE	SPARC;	Basement-membrane protein 40;Osteonectin;Secreted protein acidic and rich in cysteine;	0.25 - 0.75

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	Quantile
KHAPPPAAVN	GQPPPEPSAPAKVVR	N-ter +28.03 Da, K +28.03 Da	19.0	98.5	3	1585.06	2.20	0.27	LARP1_MOUSE		La-related protein 1;	La ribonucleoprotein domain family member 1;	0.85 - 1.00
VSKQPSRITN	GQPQQTTGAASGGYIKR	N-ter +34.06 Da, K +34.06 Da	34.4	80.4	3	1787.14	0.61	0.10	SNP23_MOUSE	Q9D3L3_MOUSE	Synaptosomal-associated protein 23;	Syndet;Vesicle-membrane fusion protein SNAP-23;	0.25 - 0.75
HSLRTAAVLQ	GQVVQFKLSDIGEGIR	N-ter +34.06 Da, K +34.06 Da	45.7	44.3	3	1813.15	0.07	0.01	ODB2_MOUSE		Lipoamide acyltransferase component of branched-chain alpha-keto acid dehydrogenase complex, mitochondrial;	Branched-chain alpha-keto acid dehydrogenase complex component E2;Dihydrolipoamide acetyltransferase component of branched-chain alpha-keto acid dehydrogenase complex;Dihydrolipoamide branched chain transacylase;Dihydrolipoyllysine-residue (2-methylpropanoyl)transferase;	0.25 - 0.75
NDTLYTPEWE	GRVPDSIDYR	N-ter +28.03 Da	27.3	66.8	3	1204.70	-0.36	0.04	CATK_MOUSE		Cathepsin K;		0.25 - 0.75
EETTALVCDN	GSGLCKAGFAGDDAPR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	25.0	11.5	3	1645.87	-6.64	0.00	ACTA_MOUSE	ACTH_MOUSE	Actin, aortic smooth muscle;	Alpha-actin-2;	0.00 - 0.15
EETTALVCDN	GSGLVKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da	43.8	89.7	3	1572.97	-0.86	0.14	ACTC_MOUSE	ACTS_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.15 - 0.25
HPTSPPRPPG	GSIITVYPKEIR	N-ter +28.03 Da, K +28.03 Da	37.6	89.5	3	1430.98	0.39	0.02	MA2B2_MOUSE		Epididymis-specific alpha-mannosidase;	Mannosidase alpha class 2B member 2;	0.25 - 0.75
GGRPAMEPGN	GSLDLGGDAAGR	N-ter +28.03 Da	52.9	59.9	2	1115.62	1.98	0.03	HNRPU_MOUSE		Heterogeneous nuclear ribonucleoprotein U;	Scaffold attachment factor A;	0.85 - 1.00
M	GSSQSVEIPGGGTEGYHVLR	N-ter +28.03 Da	62.4	69.5	3	2057.16	0.47	0.07	GORS2_MOUSE	A2ATI8_MOUSE	Golgi reassembly-stacking protein 2;	Golgi reassembly-stacking protein of 55 kDa;	0.25 - 0.75
GQSSSANRRA	GSSSGSGVQGASAGGLAADASR	N-ter +28.03 Da	68.0	61.6	3	1877.00	2.27	0.31	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.85 - 1.00
HGPPPMDQYL	GSTPVGSGVYR	N-ter +34.06 Da	39.2	49.1	2	1112.66	0.72	0.06	SF01_MOUSE	Q3UI45_MOUSE	Splicing factor 1;	CW17;Mammalian branch point-binding protein;Transcription factor ZFM1;Zinc finger gene in MEN1 locus;Zinc finger protein 162;	0.25 - 0.75
ALERGARGGP	GSVELAHLHGILR	N-ter +28.03 Da	24.5	81.8	3	1428.94	6.73	0.37	FGF20_MOUSE		Fibroblast growth factor 20;		0.85 - 1.00
VRNIKSMWEK	GSVFSAPSASGTPNKETAGLKVGVSSR	N-ter +28.03 Da, K +28.03 Da	26.3	70.1	4	2674.62	0.33	0.03	Q8VCQ8_MOUSE	E9Q0M9_MOUSE			0.25 - 0.75
GDHSTPPSAY	GSVKPYTNFDAER	N-ter +28.03 Da, K +28.03 Da	37.5	67.1	3	1538.88	-0.34	0.06	ANXA2_MOUSE	B0V2N7_MOUSE	Annexin A2;	Annexin II;Annexin-2;Calpactin I heavy chain;Calpactin-1 heavy chain;Chromobindin-8;Lipocortin II;Placental anticoagulant protein IV;Protein I;p36;	0.25 - 0.75
ISTSVCLRAH	GSVVKSEDYAFPTYADR	N-ter +28.03 Da, K +28.03 Da	48.0	81.2	3	1960.12	-1.64	0.21	COX41_MOUSE		Cytochrome c oxidase subunit 4 isoform 1, mitochondrial;	Cytochrome c oxidase polypeptide IV;Cytochrome c oxidase subunit IV isoform 1;	0.00 - 0.15
RSFRILAQMT	GTEYMQDPDEEALRR	N-ter +28.03 Da	19.9	78.8	3	1836.98	2.29	0.24	LDB3_MOUSE	E9PYJ9_MOUSE	LIM domain-binding protein 3;	Protein cypher;Protein oracle;Z-band alternatively spliced PDZ-motif protein;	0.85 - 1.00
RSFRILAQMT	GTEYMQDPDEEALR	N-ter +28.03 Da	30.3	87.7	3	1680.88	0.00	0.00	E9PYJ9_MOUSE	LDB3_MOUSE			0.25 - 0.75
ILTRLRLQKR	GTGGVDTAAVGAVFDISNADR	N-ter +28.03 Da	75.0	71.4	3	2020.13	2.01	0.12	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.85 - 1.00
VEAARNLGRV	GTKCCTLPEDQR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	26.5	43.8	3	1531.84	-3.06	0.26	ALBU_MOUSE		Serum albumin;		0.00 - 0.15
SVCVVHLRNL	GTLDNPSSLDETAYER	N-ter +28.03 Da	39.9	72.9	3	1794.96	0.60	0.08	FRDA_MOUSE	E9Q2P9_MOUSE	Frataxin, mitochondrial;		0.25 - 0.75
FDQTTISLQM	GTNKGASQAGMLAPGTR	N-ter +28.03 Da, K +28.03 Da	33.1	59.9	3	1671.97	1.40	0.07	CNN3_MOUSE		Calponin-3;	Calponin, acidic isoform;	0.75 - 0.85
TIDCDVITLM	GTPSGTAEPYDGTKAR	N-ter +34.06 Da, K +34.06 Da	42.8	49.6	3	1674.97	0.55	0.05	BSDC1_MOUSE		BSD domain-containing protein 1;		0.25 - 0.75
QRRSIISRLF	GTSPAAEVTPSPPEPAPALEAPAR	N-ter +34.06 Da	41.9	71.7	3	2346.40	0.12	0.01	PARF_MOUSE		Putative GTP-binding protein Parf;		0.25 - 0.75
RLRLQKRGTG	GVDTAAVGAVFDISNADR	N-ter +34.06 Da	58.1	51.9	3	1811.02	0.16	0.01	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
LDHGRTLREQ	GVEEHETLLLR	N-ter +28.03 Da	35.6	48.2	3	1322.78	0.18	0.01	TLN1_MOUSE	A2AIM2_MOUSE	Talin-1;		0.25 - 0.75
EYVSPNSEDV	GVEGPKGDPGPQGPR	N-ter +28.03 Da, K +28.03 Da	34.5	95.4	3	1502.93	1.10	0.38	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.75 - 0.85
M	GVEIETISPGDGR	N-ter +28.03 Da	31.3	65.7	3	1356.78	0.35	0.02	FKB1B_MOUSE		Peptidyl-prolyl cis-trans isomerase FKBP1B;	12.6 kDa FK506-binding protein;FK506-binding protein 1B;Immunophilin FKBP12.6;Rotamase;	0.25 - 0.75
GGGTAMRILG	GVISAISEAAAQYNPEPPPPR	N-ter +34.06 Da	37.6	84.6	4	2197.34	0.10	0.00	CPNS1_MOUSE	D3YW48_MOUSE	Calpain small subunit 1;	Calcium-activated neutral proteinase small subunit;Calcium-dependent protease small subunit;Calcium-dependent protease small subunit 1;Calpain regulatory subunit;	0.25 - 0.75
M	GVQPPNFSWVLPGR	N-ter +28.03 Da	33.0	57.6	3	1580.94	0.65	0.08	DUS23_MOUSE		Dual specificity protein phosphatase 23;	Low molecular mass dual specificity phosphatase 3;	0.25 - 0.75
M	GVQVETISPGDGR	N-ter +28.03 Da	44.9	51.8	2	1341.76	1.53	0.05	FKB1A_MOUSE	Q1JUQ8_MOUSE	Peptidyl-prolyl cis-trans isomerase FKBP1A;	12 kDa FK506-binding protein;FK506-binding protein 1A;Immunophilin FKBP12;Rotamase;	0.85 - 1.00
WQEGDKVIRP	GVSQAGEEMEQFGQGVR	N-ter +28.03 Da	50.6	42.9	3	1835.93	0.45	0.04	SBSN_MOUSE	E9QPB2_MOUSE	Suprabasin;		0.25 - 0.75
GNFAAQYSDK	GVSSGPGPMGLMGPR	N-ter +28.03 Da	57.6	30.7	2	1426.75	0.11	0.00	CO1A2_MOUSE	E0CXI2_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.25 - 0.75
RAMSLSDALK	GVTDNVVDTVVHYVPLPR	N-ter +34.06 Da	38.7	72.1	3	2013.26	-1.79	0.25	PLIN1_MOUSE		Perilipin-1;	Lipid droplet-associated protein;Perilipin A;	0.00 - 0.15
MSN	GYEDHMAEDCR	N-ter +28.03 Da, C +57.02 Da	35.3	99.8	3	1409.67	7.24	1.54	ELAV1_MOUSE		ELAV-like protein 1;	Elav-like generic protein;Hu-antigen R;MelG;	0.85 - 1.00
QQQQMTSSYG	GYKEPAAPVSIQR	N-ter +28.03 Da, K +28.03 Da	44.5	58.3	3	1470.91	-0.92	0.05	LASP1_MOUSE	A2A6H0_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.15 - 0.25
KGHRGLPGLK	GYSGLQGLPGLAGLHGDQGAPGPVGPAGPR	N-ter +28.03 Da	41.3	102.6	4	2780.72	-1.89	0.28	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.00 - 0.15
TQCEKIVQKY	GYTHLSTGDLLR	N-ter +34.06 Da	42.9	57.1	3	1365.82	-1.15	0.13	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.15 - 0.25
SRVRTGRSIK	GYTLPPHCSR	N-ter +34.06 Da, C +57.02 Da	24.7	92.6	3	1220.73	-2.40	0.50	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15

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	Quantile
ARLLPQEPGE	HDLPPAPQPAVLAALNR	N-ter +28.03 Da	23.1	50.5	3	1807.10	4.27	1.39	ZC12D_MOUSE	E9QNR7_MOUSE	Probable ribonuclease ZC3H12D;	MCP-induced protein 4;Transformed follicular lymphoma homolog;Zinc finger CCCH domain-containing protein 12D;	0.85 - 1.00
LLAFTQPKTF	HEASEDCISQGGTLGTPQSELENEALFEYAR	N-ter +34.06 Da, C +57.02 Da	40.8	93.2	4	3471.92	-1.94	0.37	TETN_MOUSE	Q8CFZ6_MOUSE	Tetranectin;	C-type lectin domain family 3 member B;Plasminogen kringle 4-binding protein;	0.00 - 0.15
TSQKDQSPAS	HEIATNLGDFAISLYR	N-ter +34.06 Da	45.6	75.5	3	1853.13	0.30	0.02	A1AT1_MOUSE	A1AT2_MOUSE	Alpha-1-antitrypsin 1-1;	Alpha-1 protease inhibitor 1;Alpha-1-antiproteinase;Serine protease inhibitor 1-1;Serine protease inhibitor A1a;	0.25 - 0.75
KTKGKEAPFT	HFDPSCLFPACR	N-ter +34.06 Da, C +57.02 Da	22.6	85.0	3	1539.85	-3.32	0.33	CAH3_MOUSE				0.00 - 0.15
MPG	HLQEGFGCVVTNR	N-ter +28.03 Da, C +57.02 Da	47.7	85.7	3	1543.89	2.34	0.16	PAIRB_MOUSE		Plasminogen activator inhibitor 1 RNA-binding protein;	PAI1 RNA-binding protein 1;SERPINE1 mRNA-binding protein 1;	0.85 - 1.00
SMSSGLEFVS	HNPPSEAAAPPVAR	N-ter +28.03 Da	24.4	71.9	3	1440.85	0.72	0.02	ATX2_MOUSE	E9QQ60_MOUSE	Ataxin-2;	Spinocerebellar ataxia type 2 protein homolog;	0.25 - 0.75
IHYGGKNRDL	HVPIPAVAEMNPNVNVFVPPR	N-ter +34.06 Da	57.8	114.3	4	2330.54	-1.43	0.16	IGHM_MOUSE	MUCM_MOUSE	Ig mu chain C region secreted form;		0.15 - 0.25
YFGKLRNIEL	ICQENEGENDPVLQR	N-ter +28.03 Da, C +57.02 Da	45.2	68.3	3	1827.97	1.67	0.18	MARE1_MOUSE		Microtubule-associated protein RP/EB family member 1;	APC-binding protein EB1;End-binding protein 1;	0.85 - 1.00
AEKNAPAIIF	IDELDAIAPKR	N-ter +34.06 Da, K +34.06 Da	33.4	44.7	3	1307.87	0.63	0.01	TERA_MOUSE		Transitional endoplasmic reticulum ATPase;	15S Mg(2+)-ATPase p97 subunit;Valosin-containing protein;	0.25 - 0.75
EDEKLTLTEL	IDFYGIDDNLLHYNR	N-ter +28.03 Da	66.1	68.2	3	1895.05	-0.01	0.00	SFR1_MOUSE		Swi5-dependent recombination DNA repair protein 1 homolog;	Meiosis protein 5 homolog;	0.25 - 0.75
TKATVYFINL	IDLDTIDVSNLNR	N-ter +28.03 Da	31.5	68.2	3	1514.90	0.99	0.05	SAE2_MOUSE	A2BH29_MOUSE	SUMO-activating enzyme subunit 2;	Anthracycline-associated resistance ARX;Ubiquitin-like 1-activating enzyme E1B;	0.75 - 0.85
RQKEVNENFA	IDLIAQQPVNEVEHR	N-ter +28.03 Da	32.5	82.1	3	1788.10	-1.06	0.02	NDUS6_MOUSE	D3YW32_MOUSE	NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial;	Complex I-13kD-A;NADH-ubiquinone oxidoreductase 13 kDa-A subunit;	0.15 - 0.25
RLAKYNQLMR	IEEALGDKAVFAGR	N-ter +28.03 Da, K +28.03 Da	29.6	61.1	3	1530.93	0.51	0.04	ENOB_MOUSE		Beta-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 3;Muscle-specific enolase;Skeletal muscle enolase;	0.25 - 0.75
FVPNDGCLNF	IEENDEVLVAGFGR	N-ter +34.06 Da	42.7	40.5	3	1580.89	1.75	0.18	RS23_MOUSE	Q9CZI5_MOUSE	40S ribosomal protein S23;		0.85 - 1.00
VICVAVWVIN	IGHFADPAHGGSWLR	N-ter +34.06 Da	25.8	65.2	3	1653.97	-1.03	0.08	AT2A3_MOUSE	B1ATS5_MOUSE	Sarcoplasmic/endoplasmic reticulum calcium ATPase 3;	Calcium pump 3;	0.15 - 0.25
PKHPVDQVQR	IIGGSMDAKGSFPWQAK	N-ter +28.03 Da, K +28.03 Da	18.9	94.7	4	1876.17	0.12	0.01	HPT_MOUSE		Haptoglobin;		0.25 - 0.75
ERLGSYLIRN	IKIPMKPSWKTAFLAR	N-ter +34.06 Da, K +34.06 Da	17.8	115.5	3	2022.58	-1.32	0.10	SP100_MOUSE	Q6NTA3_MOUSE	Nuclear autoantigen Sp-100;	Nuclear dot-associated Sp100 protein;Speckled 100 kDa;	0.15 - 0.25
AAVCAQPRGR	ILGGQEAAAHAR	N-ter +34.06 Da	38.5	104.7	3	1226.82	0.16	0.04	CFAD_MOUSE		Complement factor D;	28 kDa adipocyte protein;Adipsin;C3 convertase activator;Properdin factor D;	0.25 - 0.75
GDAVPVFDLL	ILGVGPDGHTCSLFPDHPLLQER	N-ter +28.03 Da, C +57.02 Da	26.2	105.8	4	2585.58	-3.47	0.77	6PGL_MOUSE	Q8CBG6_MOUSE	6-phosphogluconolactonase;		0.00 - 0.15
APMTDEIQQQ	ILNLPESWDWR	N-ter +34.06 Da	30.4	53.2	3	1461.86	1.77	0.38	CATC_MOUSE	D3Z220_MOUSE	Dipeptidyl peptidase 1;	Cathepsin C;Cathepsin J;Dipeptidyl peptidase I;Dipeptidyl transferase;	0.85 - 1.00
ESAAADDNGL	IPPTPVPASASKVAFPEILGTSVKR	N-ter +34.06 Da, K +34.06 Da	16.8	77.1	4	2663.85	0.21	0.02	Q8CGS6_MOUSE	Q80XB7_MOUSE			0.25 - 0.75
D	IQMTQTPSSLSASLGDR	N-ter +34.06 Da	22.0	63.7	3	1940.10	-1.29	0.06	KV5AF_MOUSE	KV5AG_MOUSE	Ig kappa chain V-V region HP 91A3;		0.15 - 0.25
D	IQMTQTTSSLSASLGDR	N-ter +28.03 Da	51.9	65.1	3	1938.06	-0.25	0.04	KV5AA_MOUSE	KV5AB_MOUSE	Ig kappa chain V-V region MOPC 173;		0.25 - 0.75
IGEEAPQMNY	IQVTPQEKEAIER	N-ter +28.03 Da, K +28.03 Da	19.6	85.1	3	1596.02	0.50	0.04	RD23A_MOUSE	RD23B_MOUSE	UV excision repair protein RAD23 homolog A;		0.25 - 0.75
LLLGPSSVLG	ISFHLPVNSR	N-ter +34.06 Da	30.2	56.5	3	1202.77	-1.03	0.21	TMEDA_MOUSE		Transmembrane emp24 domain-containing protein 10;	21 kDa transmembrane-trafficking protein;Transmembrane protein Tmp21;p24 family protein delta-1;	0.15 - 0.25
IALNDNFVKL	ISWYDNEYGYSNR	N-ter +34.06 Da	30.8	53.5	3	1699.86	1.28	0.16	G3P_MOUSE	F8WJL5_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.75 - 0.85
KKELSDIAHR	IVAPGKGILAADESTGSIAKR	N-ter +28.03 Da, K +28.03 Da	18.5	71.1	4	2137.40	0.91	0.09	ALDOA_MOUSE	A6ZI44_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.75 - 0.85
D	IVITQDELSNPVTSGESVSISCR	N-ter +28.03 Da, C +57.02 Da	45.0	83.5	4	2633.51	0.24	0.04	KV2A1_MOUSE	KV2A2_MOUSE	Ig kappa chain V-II region MOPC 167;		0.25 - 0.75
E	IVLTQSPAITAASLGQK	N-ter +28.03 Da, K +28.03 Da	49.6	58.1	3	1882.19	1.52	0.10	KV6A1_MOUSE	KV6A2_MOUSE	Ig kappa chain V-VI region XRPC 44;		0.85 - 1.00
LLWVPGSTGD	IVLTQSPASLAVSLGQR	N-ter +34.06 Da	58.5	62.9	3	1888.20	-0.30	0.05	KV3A1_MOUSE	KV3A2_MOUSE	Ig kappa chain V-III region PC 2880/PC 1229;		0.25 - 0.75
RYASICQQNG	IVPIVEPEILPDGDHDLKR	N-ter +34.06 Da, K +34.06 Da	25.2	92.5	4	2222.50	0.60	0.07	ALDOA_MOUSE	ALDOC_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
QNAILVRYTQ	KAPQVSTPTLVEAAR	N-ter +28.03 Da, K +28.03 Da	44.8	79.3	3	1623.06	0.68	0.08	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
QATKASPQAT	KASPQTTKASPQAKPLR	N-ter +28.03 Da, K +28.03 Da	15.8	105.0	4	1920.35	7.82	0.51	BSN_MOUSE		Protein bassoon;		0.85 - 1.00
KDWFLQAPKR	KATAVLGPPRK	N-ter +28.03 Da, K +28.03 Da	28.7	67.7	3	1220.88	1.42	0.11	VCC1_MOUSE	E9Q192_MOUSE	VEGF co-regulated chemokine 1;	13.6 kDa protein;C-X-C motif chemokine 17;	0.75 - 0.85
KIREGEVEVL	KATEMVEVGPEDDEVGAERGEATDLLR	N-ter +28.03 Da, K +28.03 Da	31.2	52.8	4	2971.60	0.38	0.05	PTRF_MOUSE		Polymerase I and transcript release factor;	Cav-p60;Cavin-1;	0.25 - 0.75
KIREGEVEVL	KATEMVEVGPEDDEVGAER	N-ter +34.06 Da, K +34.06 Da	44.8	84.3	3	2128.24	-1.64	0.31	PTRF_MOUSE		Polymerase I and transcript release factor;	Cav-p60;Cavin-1;	0.00 - 0.15
APPWKDSKKF	KDAPDGPTVVLTVDGR	N-ter +28.03 Da, K +28.03 Da	35.4	66.0	3	1695.03	-6.64	0.00	FA12_MOUSE	F6WLH2_MOUSE	Coagulation factor XII;	Hageman factor;	0.00 - 0.15
AGDEESYDVF	KDLFDPIIEER	N-ter +34.06 Da, K +34.06 Da	28.5	62.4	3	1441.94	0.21	0.01	KCRB_MOUSE		Creatine kinase B-type;	B-CK;Creatine kinase B chain;	0.25 - 0.75
AGDEESYTVF	KDLFDPIIQDR	N-ter +34.06 Da, K +34.06 Da	38.1	66.9	3	1426.94	-0.94	0.04	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.15 - 0.25
LPMMQAISNN	KDQGGYEDFVEGLR	N-ter +34.06 Da, K +34.06 Da	23.5	39.8	3	1679.95	0.06	0.00	E9PWG4_MOUSE	MYL1_MOUSE			0.25 - 0.75
EDVQETDTSQ	KDQSPASHEIATNLGDFAISLYR	N-ter +28.03 Da, K +28.03 Da	35.0	80.1	4	2588.53	-1.79	0.19	A1AT1_MOUSE	A1AT2_MOUSE	Alpha-1-antitrypsin 1-1;	Alpha-1 protease inhibitor 1;Alpha-1-antiproteinase;Serine protease inhibitor 1-1;Serine protease inhibitor A1a;	0.00 - 0.15
MR	KDTPPPLVPPAAR	N-ter +28.03 Da, K +28.03 Da	22.3	89.6	3	1413.96	-0.74	0.05	MEP50_MOUSE	D6RIL4_MOUSE	Methylosome protein 50;	WD repeat-containing protein 77;	0.25 - 0.75
MFDQTQIQEF	KEAFTVIDQNR	N-ter +28.03 Da, K +28.03 Da	37.8	81.6	3	1375.86	1.32	0.06	MLRS_MOUSE	F6ULR7_MOUSE	Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.75 - 0.85
SLARELSGTI	KEILGTAQSVGCNVDGR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	39.7	62.6	3	1871.14	1.43	0.08	RL12_MOUSE		60S ribosomal protein L12;		0.85 - 1.00
QQMTSSYGGY	KEPAAPVSIQR	N-ter +34.06 Da, K +34.06 Da	29.0	68.5	3	1262.89	1.01	0.08	LASP1_MOUSE	A2A6H0_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.75 - 0.85
LAAADPAIYF	KEQFLDGDAWTNR	N-ter +28.03 Da, K +28.03 Da	42.7	56.9	3	1634.90	0.28	0.02	CALR_MOUSE		Calreticulin;	CRP55;Calregulin;Endoplasmic reticulum resident protein 60;HACBP;	0.25 - 0.75

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	Quantile
MSMN	KGPTLLDGDLPEQENVLQR	N-ter +34.06 Da, K +34.06 Da	39.4	77.1	4	2189.40	0.97	0.05	PLIN1_MOUSE		Perilipin-1;	Lipid droplet-associated protein;Perilipin A;	0.75 - 0.85
IPTLEEYQHY	KGSDFDCELR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	20.9	74.0	3	1293.76	-0.94	0.15	HNRPK_MOUSE	E9Q8D6_MOUSE	Heterogeneous nuclear ribonucleoprotein K;		0.15 - 0.25
NARKMKFALL	KGSFSEQGINEFLR	N-ter +28.03 Da, K +28.03 Da	35.4	55.3	3	1666.96	0.82	0.13	PDIA6_MOUSE	Q3TML0_MOUSE	Protein disulfide-isomerase A6;	Thioredoxin domain-containing protein 7;	0.25 - 0.75
RSAPPKLASL	KGVVPEDAVETLAGSLGTR	N-ter +34.06 Da, K +34.06 Da	46.6	34.5	3	1966.20	-1.12	0.12	ICAL_MOUSE	Q921U7_MOUSE	Calpastatin;	Calpain inhibitor;	0.15 - 0.25
PLRLPLQDVY	KIGGIGTVPVGR	N-ter +34.06 Da, K +34.06 Da	37.1	45.7	3	1220.88	1.31	0.13	EF1A1_MOUSE	EF1A2_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.75 - 0.85
LDLRAHLKQV	KKEDIEKENR	N-ter +28.03 Da, K +28.03 Da	23.0	116.3	3	1399.97	4.53	0.50	TNNI3_MOUSE		Troponin I, cardiac muscle;	Cardiac troponin I;	0.85 - 1.00
M	KLNFSGLR	N-ter +34.06 Da, K +34.06 Da	39.7	55.7	3	1132.77	-0.49	0.01	CBR2_MOUSE		Carbonyl reductase [NADPH] 2;	Adipocyte protein P27;Lung carbonyl reductase;NADPH-dependent carbonyl reductase 2;	0.25 - 0.75
EKKELKSMKR	KMEKDMEISEHLLKALASCR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	23.6	38.1	4	2500.42	2.81	0.37	CC105_MOUSE		Coiled-coil domain-containing protein 105;		0.85 - 1.00
PRPDRLVNRL	KNITLDDASAPR	N-ter +34.06 Da, K +34.06 Da	31.2	35.5	3	1367.85	0.63	0.03	CSDE1_MOUSE	Q80TP8_MOUSE	Cold shock domain-containing protein E1;		0.25 - 0.75
M	KPPAACAGDVVDAASPASTVNHLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	57.2	78.0	4	2459.45	0.07	0.01	THOP1_MOUSE		Thimet oligopeptidase;		0.25 - 0.75
LDPEGKGTIK	KQFLEELLTTQCDR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	31.2	68.0	3	1836.07	0.28	0.02	MLRS_MOUSE		Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.25 - 0.75
PIGGDFPAVQ	KQNDIHRAFKR	N-ter +28.03 Da, K +28.03 Da	9.2	93.8	3	1496.01	2.16	0.07	DMD_MOUSE		Dystrophin;		0.85 - 1.00
AQAYKALKDY	KSSLSDISSLLQIEPR	N-ter +28.03 Da, K +28.03 Da	50.8	76.7	3	1828.17	0.18	0.01	TOM34_MOUSE		Mitochondrial import receptor subunit TOM34;	Translocase of outer membrane 34 kDa subunit;	0.25 - 0.75
RQNRRPGTGG	KTGSGGGSSGGGGAGPGGR	N-ter +28.03 Da, K +28.03 Da	22.8	75.2	3	1515.85	-0.15	0.01	PRC2A_MOUSE		Protein PRRC2A;	HLA-B-associated transcript 2;Proline-rich and coiled-coil-containing protein 2A;	0.25 - 0.75
NLHASNTRLQ	KTGTAEMSSILEER	N-ter +34.06 Da, K +34.06 Da	45.9	79.4	3	1619.02	0.39	0.02	ATPA_MOUSE	D6RJ16_MOUSE	ATP synthase subunit alpha, mitochondrial;		0.25 - 0.75
DNHTSVVGMR	KVAAAMSVTSIPVK	N-ter +28.03 Da, K +28.03 Da	9.2	107.9	3	1485.06	-1.94	0.15	MOCOS_MOUSE		Molybdenum cofactor sulfurase;	Molybdenum cofactor sulfurtransferase;	0.00 - 0.15
PSSSAPRVSR	LATTVSAPDLKSVR	N-ter +28.03 Da, K +28.03 Da	31.0	63.7	3	1512.98	1.51	0.13	F7CK47_MOUSE	MAP4_MOUSE	Microtubule-associated protein;		0.85 - 1.00
DQAGRFHVNL	LCGEEQGADAALHFNPR	N-ter +34.06 Da, C +57.02 Da	61.7	85.5	3	1918.09	-4.64	2.32	LEG7_MOUSE	Q9CRB1_MOUSE	Galectin-7;		0.00 - 0.15
KKLNKLSFLY	LDHNDLESVPPNLPESLR	N-ter +34.06 Da	25.2	70.9	3	2078.23	-2.00	0.16	MIME_MOUSE		Mimecan;	Osteoglycin;	0.00 - 0.15
MAWNETADLG	LDIGAQGEALGYR	N-ter +28.03 Da	48.4	42.7	3	1389.79	-0.20	0.01	CTNB1_MOUSE	F7CRC6_MOUSE	Catenin beta-1;	Beta-catenin;	0.25 - 0.75
RTIAVLLPCL	LDKGMMSPVTEVR	N-ter +28.03 Da, K +28.03 Da	39.8	75.0	3	1517.91	-2.74	0.37	ECM29_MOUSE	A2ALV7_MOUSE	Proteasome-associated protein ECM29 homolog;		0.00 - 0.15
PPPKARSNEN	LDKIDMSLDDIIKLNR	N-ter +34.06 Da, K +34.06 Da	27.9	13.8	3	2003.25	-1.32	0.07	UIF_MOUSE		UAP56-interacting factor;	Forty-two-three domain-containing protein 1;	0.15 - 0.25
PSPGEALIHL	LDLPCTPPPPAPIPSVR	N-ter +28.03 Da, C +57.02 Da	42.3	67.7	3	1854.13	0.76	0.05	AP1G2_MOUSE		AP-1 complex subunit gamma-like 2;	Gamma2-adaptin;	0.25 - 0.75
GPTSYPEPSK	LDPTSVTLKPMEIR	N-ter +28.03 Da, K +28.03 Da	25.3	90.6	3	1655.08	0.39	0.05	MA2B1_MOUSE		Lysosomal alpha-mannosidase;	Lysosomal acid alpha-mannosidase;Mannosidase alpha class 2B member 1;Mannosidase alpha-B;	0.25 - 0.75
KGQWLTLEAP	LDTINVHLR	N-ter +34.06 Da	27.9	36.7	3	1113.71	3.93	0.41	LYAG_MOUSE		Lysosomal alpha-glucosidase;	Acid maltase;	0.85 - 1.00
TGTGTLLLVL	LDVNDNAPIPEPR	N-ter +28.03 Da	33.7	43.8	3	1476.82	1.11	0.06	CADH1_MOUSE		Cadherin-1;	ARC-1;Epithelial cadherin;Uvomorulin;	0.75 - 0.85
FRAMGVPMMG	LDYSDEINQVVEVR	N-ter +34.06 Da	31.2	59.8	3	1711.99	-0.49	0.04	A2M_MOUSE	D3YW52_MOUSE	Alpha-2-macroglobulin;	Pregnancy zone protein;	0.25 - 0.75
KDGSASGTTL	LEALDCILPPTRPTDKPLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	22.2	87.3	4	2260.46	0.95	0.07	EF1A1_MOUSE	D3YZ68_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.75 - 0.85
KEGNASGVSL	LEALDTILPPTRPTDKPLR	N-ter +28.03 Da, K +28.03 Da	28.3	64.5	4	2201.42	0.00	0.00	EF1A2_MOUSE	B7ZBW3_MOUSE	Elongation factor 1-alpha 2;	Eukaryotic elongation factor 1 A-2;Statin-S1;	0.25 - 0.75
VVLDPMYSTY	LEALGIKEGTIPPEYR	N-ter +28.03 Da, K +28.03 Da	24.2	52.5	3	1841.13	0.64	0.04	ICAL_MOUSE	Q921U7_MOUSE	Calpastatin;	Calpain inhibitor;	0.25 - 0.75
RTLTAVHDAI	LEDLVFPSEIVGKR	N-ter +28.03 Da, K +28.03 Da	27.3	71.1	3	1657.06	3.17	0.17	RS7_MOUSE	F6SVV1_MOUSE	40S ribosomal protein S7;		0.85 - 1.00
KSPEERTIEY	LEEVAVNFAKGLADR	N-ter +34.06 Da, K +34.06 Da	21.5	63.4	3	1699.10	0.00	0.00	ECHA_MOUSE		Trifunctional enzyme subunit alpha, mitochondrial;	TP-alpha;	0.25 - 0.75
PPPLPTYHVL	LEGEGLGQSLGNCKDDLLNVCMR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	20.8	113.9	4	2633.56	-2.94	0.45	TRI29_MOUSE		Tripartite motif-containing protein 29;		0.00 - 0.15
NDAYGPPSNF	LEIDVSNPQTVGVGR	N-ter +34.06 Da	42.5	42.0	3	1616.96	-0.67	0.05	SNX3_MOUSE	Q78ZM0_MOUSE	Sorting nexin-3;	SDP3 protein;	0.25 - 0.75
MPSHNPSPAS	LESSPATTEKNSNFTVTPR	N-ter +28.03 Da, K +28.03 Da	21.0	83.8	4	2134.27	6.22	0.96	K0319_MOUSE	F2Z497_MOUSE	Dyslexia-associated protein KIAA0319 homolog;		0.85 - 1.00
LWVLGLPAHG	LEVAEDSGHPWR	N-ter +28.03 Da	21.2	93.0	3	1422.82	0.01	0.00	TXD15_MOUSE		Thioredoxin domain-containing protein 15;		0.25 - 0.75
AFTKLTDNIF	LEVLHSTDPQLSEAQSILR	N-ter +34.06 Da	48.9	62.7	3	2169.32	0.53	0.06	SAMH1_MOUSE	Q6ZQM3_MOUSE	SAM domain and HD domain-containing protein 1;	Interferon-gamma-inducible protein Mg11;	0.25 - 0.75
YVSDAFHKAF	LEVNEEGSEAAASTSVVITGR	N-ter +28.03 Da	55.6	66.3	3	2146.22	0.15	0.02	ANT3_MOUSE		Antithrombin-III;	Serpin C1;	0.25 - 0.75
AANCDKSLHT	LFGDKLCAIPNLR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	14.5	76.5	3	1584.07	0.47	0.04	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
RPPGGGSNFS	LGFDEPAEQPVR	N-ter +28.03 Da	33.1	43.5	3	1384.76	2.00	0.28	HN1_MOUSE		Hematological and neurological expressed 1 protein;		0.85 - 1.00
QSVCVVHLRN	LGTLDNPSSLDETAYER	N-ter +28.03 Da	31.3	30.1	3	1907.97	1.02	0.06	FRDA_MOUSE	E9Q2P9_MOUSE	Frataxin, mitochondrial;		0.75 - 0.85
LLVTGRGALR	LHPMGIDGPIDSFAPFHNVNCPR	N-ter +34.06 Da, C +57.02 Da	27.8	25.1	4	2624.35	-0.29	0.04	CPSF1_MOUSE		Cleavage and polyadenylation specificity factor subunit 1;	Cleavage and polyadenylation specificity factor 160 kDa subunit;	0.25 - 0.75
GATPSRYMTF	LHVYSAISSSKKKELLKR	N-ter +28.03 Da, K +28.03 Da	17.7	102.8	4	2226.61	-2.47	0.14	DYHC2_MOUSE	F6QLS2_MOUSE	Cytoplasmic dynein 2 heavy chain 1;	Cytoplasmic dynein 2 heavy chain;Dynein cytoplasmic heavy chain 2;Dynein heavy chain 11;Dynein heavy chain isotype 1B;	0.00 - 0.15
KHKTDLNHEN	LKGGDDLDPNYVLSSR	N-ter +28.03 Da, K +28.03 Da	53.8	72.9	3	1804.07	-0.89	0.12	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.15 - 0.25
EFTVLMHGPK	LKTIEGIVMAADSAR	N-ter +28.03 Da, K +28.03 Da	36.2	77.7	3	1630.04	1.82	0.13	SRCA_MOUSE		Sarcalumenin;		0.85 - 1.00
PDQAGRFHVN	LLCGEEQGADAALHFNPR	N-ter +28.03 Da, C +57.02 Da	41.9	69.3	3	2025.11	0.67	0.10	LEG7_MOUSE	Q9CRB1_MOUSE	Galectin-7;		0.25 - 0.75
LQGGGLGPLS	LLPPDLPDLEPECR	N-ter +34.06 Da, C +57.02 Da	28.1	64.4	3	1697.00	0.63	0.02	OSTM1_MOUSE		Osteopetrosis-associated transmembrane protein 1;	Grey-lethal protein;	0.25 - 0.75
SGKGPLDRKK	LNSSHLSLFHGSR	N-ter +34.06 Da	11.2	50.2	3	1487.88	-5.06	0.00	AN34C_MOUSE		Ankyrin repeat domain-containing protein 34C;		0.00 - 0.15

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	Quantile
KCCTLPEDQR	LPCVEDYLSAILNR	N-ter +28.03 Da, C +57.02 Da	31.3	73.2	3	1690.00	2.41	0.33	ALBU_MOUSE		Serum albumin;		0.85 - 1.00
M	LPNTGKLAGCTVFITGASR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	23.7	71.4	4	2161.36	-2.00	0.16	HSDL2_MOUSE	E9PYC8_MOUSE	Hydroxysteroid dehydrogenase-like protein 2;		0.00 - 0.15
GKVLMASTSY	LPSQVTEMFNQGR	N-ter +28.03 Da	33.6	48.3	3	1533.84	0.77	0.04	WIPI2_MOUSE	D3YWK1_MOUSE	WD repeat domain phosphoinositide-interacting protein 2;		0.25 - 0.75
ALLCAGRAQG	LQCYECYGVPIETSCPAVTCR	N-ter +34.06 Da, C +57.02 Da	57.7	29.2	3	2596.24	-1.43	0.08	LY6C1_MOUSE	LY6C2_MOUSE	Lymphocyte antigen 6C1;		0.15 - 0.25
PRKIISLSQL	LQEDSLNVADLSSLR	N-ter +34.06 Da	27.9	61.1	3	1693.01	0.49	0.01	PSME2_MOUSE	E0CZ90_MOUSE	Proteasome activator complex subunit 2;	11S regulator complex subunit beta;Activator of multicatalytic protease subunit 2;Proteasome activator 28 subunit beta;	0.25 - 0.75
PPKQSTSFLV	LQEILESDGKGDPNKPSGFR	N-ter +28.03 Da, K +28.03 Da	21.0	98.6	4	2270.41	-2.32	0.23	PDLI1_MOUSE		PDZ and LIM domain protein 1;	C-terminal LIM domain protein 1;Elfin;LIM domain protein CLP-36;	0.00 - 0.15
ARRQHLKSVM	LQIAATELEKEESR	N-ter +28.03 Da, K +28.03 Da	35.6	79.3	3	1672.04	1.35	0.09	TNNI2_MOUSE	A2A6K0_MOUSE	Troponin I, fast skeletal muscle;	Troponin I, fast-twitch isoform;	0.75 - 0.85
DESTGSIAKR	LQSIGTENTEENRR	N-ter +28.03 Da	19.3	81.2	3	1673.97	1.58	0.17	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.85 - 1.00
DESTGSIAKR	LQSIGTENTEENR	N-ter +28.03 Da	26.6	70.4	3	1517.84	3.19	0.14	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.85 - 1.00
ALSVLPDSRA	LRPGDCEVCISYLGR	N-ter +34.06 Da, C +57.02 Da	59.6	63.3	3	1828.03	1.54	0.19	MANF_MOUSE	Q3TMX5_MOUSE	Mesencephalic astrocyte-derived neurotrophic factor;	Arginine-rich protein;Protein ARMET;	0.85 - 1.00
HSGITESQEF	LSGGAQSSSSKSHPSER	N-ter +34.06 Da, K +34.06 Da	27.0	85.0	3	1769.08	-2.84	0.41	E9Q8I5_MOUSE				0.00 - 0.15
ASCRALHLTM	LSLDFLDDVRR	N-ter +34.06 Da	24.8	50.8	3	1512.90	-1.47	0.21	SC11A_MOUSE	D3Z569_MOUSE	Signal peptidase complex catalytic subunit SEC11A;	Endopeptidase SP18;Microsomal signal peptidase 18 kDa subunit;SEC11 homolog A;SEC11-like protein 1;SPC18;Sid 2895;	0.15 - 0.25
MGL	LSQGSPLSWEETQR	N-ter +28.03 Da	39.3	51.2	3	1644.90	0.18	0.01	GSH1_MOUSE		Glutamate--cysteine ligase catalytic subunit;	GCS heavy chain;Gamma-ECS;Gamma-glutamylcysteine synthetase;	0.25 - 0.75
DQFSRSVNVS	LTQEELDSGLDELSVR	N-ter +28.03 Da	47.4	56.6	3	1831.02	0.67	0.03	AKAP2_MOUSE	A2API8_MOUSE	A-kinase anchor protein 2;	AKAP expressed in kidney and lung;Protein kinase A-anchoring protein 2;	0.25 - 0.75
GIWHNDNKSF	LVWVNEEDHLR	N-ter +28.03 Da	42.3	57.2	3	1436.82	-0.76	0.06	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.15 - 0.25
KGSVAGGAVY	LVYDQELLGPSDKSEAALR	N-ter +34.06 Da, K +34.06 Da	21.8	70.6	3	2171.36	-0.45	0.05	QIL1_MOUSE		Protein QIL1;		0.25 - 0.75
AGNKVTYVDF	LVYDVLDQHR	N-ter +34.06 Da	28.4	63.7	3	1290.80	-0.94	0.05	GSTM2_MOUSE	GSTM6_MOUSE	Glutathione S-transferase Mu 2;	GST 5-5;GST class-mu 2;Glutathione S-transferase pmGT2;	0.15 - 0.25
SCTFFLAVSG	LYSSSDDVIELTPSNFNR	N-ter +34.06 Da	52.2	60.0	3	2090.16	0.10	0.01	PDIA6_MOUSE	Q3TML0_MOUSE	Protein disulfide-isomerase A6;	Thioredoxin domain-containing protein 7;	0.25 - 0.75
TARGAAVTRS	MASGGGVPTDEEQATGLER	N-ter +28.03 Da	44.7	64.6	3	1932.01	-1.18	0.05	COX5B_MOUSE	Q9D881_MOUSE	Cytochrome c oxidase subunit 5B, mitochondrial;	Cytochrome c oxidase polypeptide Vb;	0.15 - 0.25
EQEDNAIKAI	MEIPKETLQTAADGTR	N-ter +28.03 Da, K +28.03 Da	28.0	87.8	3	1816.10	2.09	0.20	E9PVX6_MOUSE				0.85 - 1.00
GKLPSLAFLY	MEKNQLEEVPSALPR	N-ter +34.06 Da, K +34.06 Da	32.0	67.0	3	1808.14	0.01	0.00	PRELP_MOUSE		Prolargin;	Proline-arginine-rich end leucine-rich repeat protein;	0.25 - 0.75
GEHTPSALAI	MENANVLAR	N-ter +34.06 Da	26.7	57.9	2	1050.63	-0.01	0.00	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
SLLLGSVQGY	MEQASKTVQDALSSVQESDIAVVAR	N-ter +34.06 Da, K +34.06 Da	31.0	99.1	4	2729.72	-2.84	0.20	APOC3_MOUSE	E9QP56_MOUSE	Apolipoprotein C-III;	Apolipoprotein C3;	0.00 - 0.15
ETLFQPSFIG	MESAGIHETTYNSIMKCDIDIR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	23.7	59.9	4	2651.46	-0.23	0.03	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
DTPKKQALYL	MFDTPQESPVKSPPVR	N-ter +28.03 Da, K +28.03 Da	26.0	72.3	3	1870.10	0.71	0.08	TACC2_MOUSE	E9Q8T1_MOUSE	Transforming acidic coiled-coil-containing protein 2;		0.25 - 0.75
KLLEWIKAEN	MHLTELYLSLPR	N-ter +34.06 Da	29.3	49.1	3	1505.92	0.71	0.02	Q9D1Q5_MOUSE				0.25 - 0.75
SVILQHLRMS	MHTEAAEVLLER	N-ter +28.03 Da	41.7	107.5	3	1425.88	-0.76	0.03	HIBCH_MOUSE	E0CX19_MOUSE	3-hydroxyisobutyryl-CoA hydrolase, mitochondrial;	3-hydroxyisobutyryl-coenzyme A hydrolase;	0.15 - 0.25
	MKVFVTGPLPAEGR	N-ter +28.03 Da, K +28.03 Da	33.1	83.9	3	1557.01	-0.67	0.07	GRHPR_MOUSE	D6REG4_MOUSE	Glyoxylate reductase/hydroxypyruvate reductase;		0.25 - 0.75
WAATPKQGPR	MLGAPEEADANEEGVR	N-ter +34.06 Da	49.9	63.5	3	1720.92	0.49	0.03	CYTC_MOUSE	A2APX3_MOUSE	Cystatin-C;	Cystatin-3;	0.25 - 0.75
QLSKTEFLSF	MNTELAAFTKNQKDPGVLDR	N-ter +28.03 Da, K +28.03 Da	26.9	83.2	4	2331.42	0.60	0.06	S10AB_MOUSE	F6SJ35_MOUSE	Protein S100-A11;	Calgizzarin;Endothelial monocyte-activating polypeptide;Protein S100-C;S100 calcium-binding protein A11;	0.25 - 0.75
LPYNPMMVVM	MPPPPPPVSTAVQPPGAPPVR	N-ter +28.03 Da	34.5	26.3	3	2116.21	2.36	0.10	DVL2_MOUSE		Segment polarity protein dishevelled homolog DVL-2;	DSH homolog 2;	0.85 - 1.00
ILAQMTGTEY	MQDPDEEALRR	N-ter +34.06 Da	25.2	83.2	3	1392.80	1.13	0.13	LDB3_MOUSE	E9PYJ9_MOUSE	LIM domain-binding protein 3;	Protein cypher;Protein oracle;Z-band alternatively spliced PDZ-motif protein;	0.75 - 0.85
	MQQVEASLQPETLR	N-ter +28.03 Da	26.8	52.6	3	1656.94	1.87	0.11	SPA3G_MOUSE	SPA3C_MOUSE	Serine protease inhibitor A3G;	Serine protease inhibitor 2A;	0.85 - 1.00
NSGSLSVEEF	MSLPELQQNPLVQR	N-ter +34.06 Da	38.6	59.9	3	1686.04	0.41	0.02	CANB1_MOUSE		Calcineurin subunit B type 1;	Protein phosphatase 2B regulatory subunit 1;Protein phosphatase 3 regulatory subunit B alpha isoform 1;	0.25 - 0.75
PGLGGNFASQ	MSYGYDEKSAGVSVPGPMGPSGPR	N-ter +34.06 Da, K +34.06 Da	53.8	60.3	3	2493.38	-0.34	0.06	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.25 - 0.75
SPNKGVLSDF	MTDVPVDPGVVHR	N-ter +28.03 Da	54.6	87.4	3	1448.87	-0.23	0.03	TPD54_MOUSE	Q3TUJ9_MOUSE	Tumor protein D54;	Tumor protein D52-like 2;	0.25 - 0.75
QSRSFRILAQ	MTGTEYMQDPDEEALRR	N-ter +28.03 Da	22.4	76.9	3	2069.08	-6.64	0.00	LDB3_MOUSE	E9PYJ9_MOUSE	LIM domain-binding protein 3;	Protein cypher;Protein oracle;Z-band alternatively spliced PDZ-motif protein;	0.00 - 0.15
QSRSFRILAQ	MTGTEYMQDPDEEALR	N-ter +28.03 Da	41.0	41.5	3	1912.90	1.42	0.22	E9PYJ9_MOUSE	LDB3_MOUSE			0.75 - 0.85
PTSGMIGNLS	MTPELSSAHNVIVTER	N-ter +28.03 Da	35.7	64.1	3	1811.04	-0.42	0.01	DSG1A_MOUSE		Desmoglein-1-alpha;	DG1;DGI;Desmosomal glycoprotein I;	0.25 - 0.75
TTLEHSDCAF	MVDNEAIYDICR	N-ter +34.06 Da, C +57.02 Da	32.5	36.5	3	1531.78	-0.52	0.02	TBA1A_MOUSE	TBA1B_MOUSE	Tubulin alpha-1A chain;	Alpha-tubulin 1;Alpha-tubulin isotype M-alpha-1;Tubulin alpha-1 chain;	0.25 - 0.75
DHHIVTPLTA	MVIENDAGDER	N-ter +34.06 Da	32.4	59.6	2	1281.69	0.72	0.05	ITIH2_MOUSE		Inter-alpha-trypsin inhibitor heavy chain H2;		0.25 - 0.75
EIFKKAGHPF	MWNEHLGYVLTCPSNLGTGLR	N-ter +34.06 Da, C +57.02 Da	37.4	70.6	3	2451.40	-4.32	0.86	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
TIKKRLETYY	NATEPVISFYDKR	N-ter +34.06 Da, K +34.06 Da	38.2	69.7	3	1607.01	0.68	0.08	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.25 - 0.75
TGGRTTWART	NATLSVEPEGR	N-ter +28.03 Da	36.9	50.3	2	1199.68	-0.32	0.02	ACOT2_MOUSE		Acyl-coenzyme A thioesterase 2, mitochondrial;	Acyl coenzyme A thioester hydrolase;MTE-I;Very-long-chain acyl-CoA thioesterase;	0.25 - 0.75

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	Quantile
RFFQTTAVCK	NDVITVQTPAFAESVTEGDVR	N-ter +28.03 Da	54.7	59.7	3	2275.27	0.30	0.02	ODO2_MOUSE		Dihydrolipoyllysine-residue succinyltransferase component of 2-oxoglutarate dehydrogenase complex, mitochondrial;	2-oxoglutarate dehydrogenase complex component E2;Dihydrolipoamide succinyltransferase component of 2-oxoglutarate dehydrogenase complex;E2K;	0.25 - 0.75
RDKRSALQSI	NEWASQTTDGKLPEVTKDVER	N-ter +34.06 Da, K +34.06 Da	34.9	85.3	4	2504.57	-2.64	0.17	SERPH_MOUSE		Serpin H1;	47 kDa heat shock protein;Collagen-binding protein;Serine protease inhibitor J6;	0.00 - 0.15
ELYCKVCYAK	NFGPTGIGFGGLTQQVEKK	N-ter +28.03 Da, K +28.03 Da	36.6	50.2	3	2190.28	-0.29	0.02	CSRP3_MOUSE		Cysteine and glycine-rich protein 3;	Cysteine-rich protein 3;LIM domain protein, cardiac;Muscle LIM protein;	0.25 - 0.75
	NIVLTQSPASLAVSLGQR	N-ter +28.03 Da	64.5	48.2	3	1881.16	1.21	0.07	KV3A9_MOUSE	KV3AA_MOUSE	Ig kappa chain V-III region MOPC 63;		0.75 - 0.85
ILLWLYGADG	NIVMTQSPKSMSMSVGER	N-ter +28.03 Da, K +28.03 Da	30.9	84.1	3	2037.18	-1.56	0.37	KV5A2_MOUSE		Ig kappa chain V-V region MOPC 21;		0.00 - 0.15
YNKFMSVLDT	NKDCEVDFGEYVR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	31.6	72.0	3	1685.89	1.74	0.24	S10A3_MOUSE		Protein S100-A3;	Protein S-100E;S100 calcium-binding protein A3;	0.85 - 1.00
SSSLGQQLNL	NLLENWDTLGSTVSQLQER	N-ter +28.03 Da	47.4	39.7	3	2230.21	0.29	0.05	APOA1_MOUSE	Q8BPD5_MOUSE	Apolipoprotein A-I;	Apolipoprotein A1;	0.25 - 0.75
VPFIQIKVLN	NPSGVFHFMQSLALLMSPVKNR	N-ter +28.03 Da, K +28.03 Da	18.5	70.0	4	2528.52	1.48	0.17	EPG5_MOUSE		Ectopic P granules protein 5 homolog;		0.85 - 1.00
GALGCAICHG	NPVDDICIAKPR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	32.4	22.3	3	1452.81	0.96	0.01	ANT3_MOUSE		Antithrombin-III;	Serpin C1;	0.75 - 0.85
VVKLDDGHLN	NSLGSPVQADVYFPR	N-ter +28.03 Da	22.6	107.4	3	1677.03	-1.40	0.07	LEGLA_MOUSE	E9QAC6_MOUSE	Galectin-related protein A;	Lectin galactoside-binding-like protein A;	0.15 - 0.25
IPRHEVTEIS	NTDVETQPGKTVIR	N-ter +34.06 Da, K +34.06 Da	22.5	102.8	3	1625.11	0.53	0.10	E9Q616_MOUSE				0.25 - 0.75
HTTRVCLTTF	NVQDGPDFQDR	N-ter +28.03 Da	42.6	59.6	2	1317.67	0.60	0.07	THIOM_MOUSE	Q3TUS3_MOUSE	Thioredoxin, mitochondrial;	Thioredoxin-2;	0.25 - 0.75
MAVQKFSQSL	QDFQFECIGDAETDDEISIAQSLKEFAR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	23.9	106.2	4	3317.89	-2.94	0.68	RHG42_MOUSE	Q9D333_MOUSE	Rho GTPase-activating protein 42;	Rho-type GTPase-activating protein 42;	0.00 - 0.15
LAQMTGTEYM	QDPDEEALRR	N-ter +34.06 Da	23.0	90.9	3	1261.76	1.41	0.13	LDB3_MOUSE	E9PYJ9_MOUSE	LIM domain-binding protein 3;	Protein cypher;Protein oracle;Z-band alternatively spliced PDZ-motif protein;	0.75 - 0.85
PTDKPLRLPL	QDVYKIGGIGTVPVGR	N-ter +28.03 Da, K +28.03 Da	35.8	61.4	3	1714.08	-0.15	0.01	EF1A1_MOUSE	EF1A2_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.25 - 0.75
LGATALLTHG	QEDIPEVSCIHNGLR	N-ter +34.06 Da, C +57.02 Da	40.4	76.9	3	1800.04	-2.84	0.41	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
VFSMFDQTQI	QEFKEAFTVIDQNR	N-ter +28.03 Da, K +28.03 Da	62.2	58.0	3	1780.02	0.72	0.11	MLRS_MOUSE	F6ULR7_MOUSE	Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.25 - 0.75
HGYYAAGQTW	QEGDKVIRPGVSQAGEEMEQFGQGVR	N-ter +34.06 Da, K +34.06 Da	36.3	42.9	4	2898.62	0.60	0.05	E9QPB2_MOUSE				0.25 - 0.75
RQYFYRYITD	QEYIYSIHTR	N-ter +34.06 Da	37.7	65.1	3	1342.80	0.37	0.03	MA2B2_MOUSE	F6TMZ3_MOUSE	Epididymis-specific alpha-mannosidase;	Mannosidase alpha class 2B member 2;	0.25 - 0.75
RNLHASNTRL	QKTGTAEMSSILEER	N-ter +28.03 Da, K +28.03 Da	46.8	66.6	3	1735.00	-1.94	0.22	ATPA_MOUSE	D6RJ16_MOUSE	ATP synthase subunit alpha, mitochondrial;		0.00 - 0.15
ERQDVAEITK	QLPPVVPVSKPGPLR	N-ter +28.03 Da, K +28.03 Da	29.0	19.8	3	1639.05	0.44	0.04	TELT_MOUSE		Telethonin;	Titin cap protein;	0.25 - 0.75
TIKMSKKLCI	QLVAVAYAIGLVDSTIHTSCAFR	N-ter +28.03 Da, C +57.02 Da	23.3	39.3	4	2519.42	2.94	0.20	Q7TR44_MOUSE				0.85 - 1.00
NRKWAEDNEV	QNCMSCGKCFSVTVR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	9.2	48.0	4	1888.93	2.21	0.29	EEA1_MOUSE		Early endosome antigen 1;		0.85 - 1.00
TLSKSEHSLF	QPKGGSTGGAKTPLAPLAPSLGKPSR	N-ter +28.03 Da, K +28.03 Da	25.7	37.4	4	2584.60	0.25	0.01	NAV1_MOUSE		Neuron navigator 1;	Pore membrane and/or filament-interacting-like protein 3;	0.25 - 0.75
KKVLGPGKTS	QPPAPTTFSKR	N-ter +28.03 Da, K +28.03 Da	11.4	65.2	3	1284.80	1.74	0.13	SFI1_MOUSE	Q5NBZ9_MOUSE	Protein SFI1 homolog;		0.85 - 1.00
RSSNRRDRPR	QPSPSQSSDSQVHSGVQVEGR	N-ter +28.03 Da	32.2	86.0	3	2223.24	-1.32	0.30	F7BVV1_MOUSE	E9Q019_MOUSE			0.15 - 0.25
VRVAGRRLSQ	QSASGAPVLLR	N-ter +28.03 Da	32.4	43.3	2	1125.70	2.16	0.08	ETHE1_MOUSE		Protein ETHE1, mitochondrial;	Ethylmalonic encephalopathy protein 1 homolog;Hepatoma subtracted clone one protein;	0.85 - 1.00
LLHPTLILAQ	QSNVDELGCSHLGQSYESR	N-ter +28.03 Da, C +57.02 Da	49.6	62.2	3	2193.11	0.03	0.00	CO3A1_MOUSE	Q5DTG2_MOUSE	Collagen alpha-1(III) chain;		0.25 - 0.75
LWRAASLLRF	QSTLVIAEHANDSLAPITLNTITAAGR	N-ter +28.03 Da	39.4	86.2	4	2804.74	-2.32	0.35	ETFA_MOUSE		Electron transfer flavoprotein subunit alpha, mitochondrial;		0.00 - 0.15
LDATGKTTLT	QSVSESLKAVLLQSPPPCISQWR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	19.4	63.5	4	2677.66	0.31	0.02	CMPK2_MOUSE		UMP-CMP kinase 2, mitochondrial;	Thymidylate kinase LPS-inducible member;	0.25 - 0.75
LGRFAVRDMR	QTVAVGVIKAVDK	N-ter +34.06 Da, K +34.06 Da	21.2	75.4	3	1429.08	1.73	0.25	EF1A1_MOUSE		Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.85 - 1.00
MRAAPR	RAPAAQPPAAAAPSAVGSPAAAPR	N-ter +34.06 Da	57.4	111.8	4	2186.46	10.41	2.20	CHCH2_MOUSE	B2RPU8_MOUSE	Coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial;		0.85 - 1.00
LSLMEPESEF	RDIDNPSAEAER	N-ter +28.03 Da	27.3	105.1	3	1399.82	2.41	0.47	PLIN1_MOUSE		Perilipin-1;	Lipid droplet-associated protein;Perilipin A;	0.85 - 1.00
DIKSKTYQVM	RDYEQAGSAAPSVFSR	N-ter +28.03 Da	48.6	85.1	3	1768.00	1.04	0.08	MSTN1_MOUSE		Musculoskeletal embryonic nuclear protein 1;		0.75 - 0.85
KQDFDENDIL	RELEELSLEAQGIR	N-ter +28.03 Da	41.2	34.2	3	1669.96	5.09	0.30	IF2P_MOUSE		Eukaryotic translation initiation factor 5B;	Translation initiation factor IF-2;	0.85 - 1.00
TIAPDVTETL	REPLVFKAGKPVTVKIPFQSR	N-ter +28.03 Da, K +28.03 Da	16.0	54.8	4	2508.67	3.91	0.35	IGFN1_MOUSE	E9Q766_MOUSE	Immunoglobulin-like and fibronectin type III domain-containing protein 1;		0.85 - 1.00
GKAFLRQLPF	RGDDGIFDDNFIEER	N-ter +34.06 Da	44.7	76.3	3	1831.00	0.35	0.05	SNX3_MOUSE	Q78ZM0_MOUSE	Sorting nexin-3;	SDP3 protein;	0.25 - 0.75
GKALKRQLPF	RGDEGIFEESFIEER	N-ter +34.06 Da	48.5	56.6	3	1846.00	-0.12	0.02	SNX12_MOUSE	Q6ZWQ5_MOUSE	Sorting nexin-12;	SDP8 protein;	0.25 - 0.75
APGPAGASGD	RGEAGAAGPSGPAGPR	N-ter +28.03 Da	45.8	64.4	3	1434.83	4.76	1.83	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.85 - 1.00
RAAPRQSSSF	RLLQEALEAEER	N-ter +28.03 Da	39.9	65.3	3	1483.90	0.60	0.05	PDLI2_MOUSE	F7C957_MOUSE	PDZ and LIM domain protein 2;	PDZ-LIM protein mystique;	0.25 - 0.75
VETQPGKTVI	RLPSGSGPASPTTGSAVDIR	N-ter +34.06 Da	47.4	70.1	3	1959.20	0.11	0.01	E9Q616_MOUSE				0.25 - 0.75
KAHDVCLLGP	RPLPPSPPVR	N-ter +34.06 Da	25.5	63.2	3	1148.80	0.04	0.00	GILT_MOUSE	F6YSI1_MOUSE	Gamma-interferon-inducible lysosomal thiol reductase;	Gamma-interferon-inducible protein IP-30;Lysosomal thiol reductase IP30;	0.25 - 0.75
LINEHRILNG	RPPLGFLNPR	N-ter +34.06 Da	33.3	53.0	3	1199.80	-0.56	0.04	TPP1_MOUSE		Tripeptidyl-peptidase 1;	Lysosomal pepstatin-insensitive protease;Tripeptidyl aminopeptidase;Tripeptidyl-peptidase I;	0.25 - 0.75
SVVRPFAKLV	RPPVQVYGIEGR	N-ter +34.06 Da	31.9	36.1	3	1403.86	-0.52	0.01	ATPO_MOUSE	D3Z4J0_MOUSE	ATP synthase subunit O, mitochondrial;	Oligomycin sensitivity conferral protein;	0.25 - 0.75
LQAQRAFTTR	RQISEDVDGPDNR	N-ter +28.03 Da	43.3	85.2	3	1527.86	0.19	0.02	NEDD4_MOUSE		E3 ubiquitin-protein ligase NEDD4;	Neural precursor cell expressed developmentally down-regulated protein 4;	0.25 - 0.75
IYTTKIKPRL	RSEDGVEGDLGETQSR	N-ter +34.06 Da	24.7	103.6	3	1768.03	-1.43	0.23	E9Q616_MOUSE				0.15 - 0.25

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	Quantile
KTVTFRSYSN	RTLPDTVDWR	N-ter +34.06 Da	31.4	67.2	3	1291.80	-0.54	0.05	CATS_MOUSE	Q3UD32_MOUSE	Cathepsin S;		0.25 - 0.75
LNGKLTGMAF	RVPTPNVSVVDLTCR	N-ter +28.03 Da, C +57.02 Da	40.0	54.7	3	1740.03	0.31	0.02	G3P_MOUSE	G3PT_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.25 - 0.75
EKAEAPGTVS	SAAEGPKDPPVLPR	N-ter +28.03 Da, K +28.03 Da	25.1	89.6	3	1488.96	-3.06	0.51	NUDC3_MOUSE		NudC domain-containing protein 3;		0.00 - 0.15
AKKISTDSRM	SAALKLLEPLKYKAPCNPAYR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	15.5	57.2	4	2538.71	-0.97	0.15	FAKD5_MOUSE	F2Z402_MOUSE	FAST kinase domain-containing protein 5;		0.15 - 0.25
GGGVGGPGAK	SAAQAAAQTNSNAAGKQLR	N-ter +28.03 Da, K +28.03 Da	62.3	86.4	3	1913.17	0.07	0.01	PAIRB_MOUSE		Plasminogen activator inhibitor 1 RNA-binding protein;	PAI1 RNA-binding protein 1;SERPINE1 mRNA-binding protein 1;	0.25 - 0.75
QMAKLRSLFS	SAENEPPVPLVGNWRPPQPVKGR	N-ter +28.03 Da, K +28.03 Da	37.7	75.0	4	2579.59	-0.38	0.02	CAH3_MOUSE		Carbonic anhydrase 3;	Carbonate dehydratase III;Carbonic anhydrase III;	0.25 - 0.75
MATRSCVSRG	SAGSAAAGPVEAAIR	N-ter +28.03 Da	52.5	27.6	2	1354.76	-0.15	0.01	BOLA1_MOUSE		BolA-like protein 1;		0.25 - 0.75
SQMSYGYDEK	SAGVSVPGPMGPSGPR	N-ter +34.06 Da	35.3	47.6	3	1485.85	0.04	0.00	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.25 - 0.75
HFSVGENKKA	SAKVSDAISTQYPVVDHEFDAVVVGAGGAGLR	N-ter +34.06 Da, K +34.06 Da	40.6	104.2	4	3283.09	-2.94	0.23	DHSA_MOUSE		Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial;	Flavoprotein subunit of complex II;	0.00 - 0.15
CVLKIGEHTP	SALAIMENANVLAR	N-ter +34.06 Da	44.9	55.6	3	1505.93	-0.67	0.05	ALDOA_MOUSE	A6ZI44_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
VLELKYTGNA	SALLILPDQGR	N-ter +34.06 Da	41.9	23.6	2	1215.77	5.48	0.82	SPA3K_MOUSE		Serine protease inhibitor A3K;	Contrapsin;SPI-2;	0.85 - 1.00
HSKINFRDKR	SALQSINEWASQTTDGKLPEVTKDVER	N-ter +28.03 Da, K +28.03 Da	28.6	95.6	4	3085.89	-3.18	0.29	SERPH_MOUSE		Serpin H1;	47 kDa heat shock protein;Collagen-binding protein;Serine protease inhibitor J6;	0.00 - 0.15
KVSPGTLSIG	SALTVPSFPANSTAMVDLTNSLR	N-ter +28.03 Da	20.5	79.7	4	2419.43	2.51	0.25	PHF12_MOUSE	Q8CHY4_MOUSE	PHD finger protein 12;	PHD factor 1;	0.85 - 1.00
VPRASMCSIR	SAPPKLASLKGVVPEDAVETLAGSLGTR	N-ter +34.06 Da, K +34.06 Da	31.1	90.9	4	2864.97	0.83	0.16	ICAL_MOUSE	Q921U7_MOUSE	Calpastatin;	Calpain inhibitor;	0.25 - 0.75
KSMWEKGSVF	SAPSASGTPNKETAGLKVGVSSR	N-ter +34.06 Da, K +34.06 Da	29.7	79.6	4	2302.52	1.52	0.17	Q8VCQ8_MOUSE	E9Q0M9_MOUSE			0.85 - 1.00
SCLVLAARHA	SASSTNLKDVLSNLIPKEQAR	N-ter +34.06 Da, K +34.06 Da	36.9	110.7	4	2372.68	-1.40	0.07	CISY_MOUSE		Citrate synthase, mitochondrial;		0.15 - 0.25
M	SATHHKTSLPQGVR	N-ter +34.06 Da, K +34.06 Da	29.2	47.6	3	1586.01	-3.32	0.00	LEG7_MOUSE		Galectin-7;		0.00 - 0.15
SLPAVVVETF	SATVNGAVEGSAGTGR	N-ter +28.03 Da	49.8	73.4	3	1460.83	0.06	0.00	BIN1_MOUSE	Q6P1B9_MOUSE	Myc box-dependent-interacting protein 1;	Amphiphysin II;Amphiphysin-like protein;Bridging integrator 1;SH3 domain-containing protein 9;	0.25 - 0.75
GGSKGPVDTF	SAVLTTQGKASDVLVQGEGR	N-ter +28.03 Da, K +28.03 Da	38.0	84.3	3	2071.30	-0.30	0.03	MAST4_MOUSE	E9QPR4_MOUSE	Microtubule-associated serine/threonine-protein kinase 4;		0.25 - 0.75
LVLGAPSRPL	SAVSGPAEYLQHSIVPTMHYQDSLPR	N-ter +34.06 Da	42.3	101.3	4	2916.76	4.08	1.11	CPT2_MOUSE	A2A8E8_MOUSE	Carnitine O-palmitoyltransferase 2, mitochondrial;	Carnitine palmitoyltransferase II;	0.85 - 1.00
TESTVKTTVF	SCNLGEKFDETTADGR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	28.4	87.9	3	1855.01	2.01	0.11	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;	0.85 - 1.00
WPPTVCKEVN	SCQDSLDYWTIHGLWPDR	N-ter +28.03 Da, C +57.02 Da	35.8	60.5	3	2276.17	2.27	0.38	RNT2_MOUSE		Ribonuclease T2;	Ribonuclease 6;	0.85 - 1.00
LWALLTPAEA	SCQGIQCAPGQR	N-ter +28.03 Da, C +57.02 Da	29.4	85.7	3	1388.75	-0.06	0.01	E9PVG8_MOUSE				0.25 - 0.75
GTVTHLCRQY	SDAPPLTLDGIKDR	N-ter +28.03 Da, K +28.03 Da	57.2	72.7	3	1552.96	0.94	0.03	ACPM_MOUSE	F8WJ64_MOUSE	Acyl carrier protein, mitochondrial;	CI-SDAP;NADH-ubiquinone oxidoreductase 9.6 kDa subunit;	0.75 - 0.85
ESQASDSEGH	SDFSEGQAVGAHR	N-ter +28.03 Da	56.0	102.7	3	1387.79	1.90	0.13	E9Q019_MOUSE	FILA_MOUSE			0.85 - 1.00
GLTGNFAAQY	SDKGVSSGPGPMGLMGPR	N-ter +28.03 Da, K +28.03 Da	58.6	67.7	3	1785.01	-0.06	0.00	CO1A2_MOUSE	E0CXI2_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.25 - 0.75
SKKSTDHPKY	SDMIVAAIQAEKNR	N-ter +34.06 Da, K +34.06 Da	55.2	74.3	3	1613.04	0.44	0.03	H10_MOUSE		Histone H1.0;	Histone H1';Histone H1(0);MyD196;	0.25 - 0.75
TKQTQTFTTY	SDNQPGVLIQVYEGER	N-ter +34.06 Da	53.5	48.4	3	1837.03	0.39	0.02	HS71A_MOUSE	HS71B_MOUSE	Heat shock 70 kDa protein 1A;	Heat shock 70 kDa protein 3;Hsp68;	0.25 - 0.75
LSASKSNLVI	SDPIPGAKPLPVPPELAPFVGR	N-ter +28.03 Da, K +28.03 Da	31.9	62.1	3	2309.46	0.76	0.10	BAIP2_MOUSE	B1AZ46_MOUSE	Brain-specific angiogenesis inhibitor 1-associated protein 2;	Insulin receptor substrate protein of 53 kDa;Insulin receptor tyrosine kinase 53 kDa substrate;	0.25 - 0.75
MESEM	SDPQPLQEER	N-ter +34.06 Da	38.4	60.1	2	1231.70	0.19	0.02	CASPE_MOUSE		Caspase-14;	Mini-ICE;	0.25 - 0.75
SGGGLLVDVF	SDSASAVAPLAPGSEDNFAR	N-ter +34.06 Da	52.7	33.5	3	1995.04	-0.62	0.05	AP2A2_MOUSE		AP-2 complex subunit alpha-2;	100 kDa coated vesicle protein C;Adapter-related protein complex 2 alpha-2 subunit;Adaptor protein complex AP-2 subunit alpha-2;Alpha-adaptin C;Alpha2-adaptin;Clathrin assembly protein complex 2 alpha-C large chain;Plasma membrane adaptor HA2/AP2 adaptin alpha C subunit;	0.25 - 0.75
LQTRGFVSDS	SDSMDTGAGSIR	N-ter +28.03 Da	39.9	49.2	2	1223.61	0.54	0.04	ATIF1_MOUSE	Q9D879_MOUSE	ATPase inhibitor, mitochondrial;	Inhibitor of F(1)F(o)-ATPase;	0.25 - 0.75
RPRQPSPSQS	SDSQVHSGVQVEAQR	N-ter +28.03 Da	48.6	105.2	3	1653.98	-1.64	0.26	FILA_MOUSE	F6TL02_MOUSE	Filaggrin;		0.00 - 0.15
RPRQPSPSQS	SDSQVHSGVQVEGR	N-ter +28.03 Da	37.0	116.6	3	1511.91	-0.76	0.22	E9Q019_MOUSE	FILA_MOUSE			0.15 - 0.25
MKVLQTRGFV	SDSSDSMDTGAGSIR	N-ter +28.03 Da	45.7	79.2	3	1512.76	1.14	0.12	ATIF1_MOUSE	Q9D879_MOUSE	ATPase inhibitor, mitochondrial;	Inhibitor of F(1)F(o)-ATPase;	0.75 - 0.85
A	SDVLELTDENFESR	N-ter +28.03 Da	58.1	15.7	2	1680.81	0.77	0.05	PDIA3_MOUSE	F6Q404_MOUSE	Protein disulfide-isomerase A3;	58 kDa glucose-regulated protein;58 kDa microsomal protein;Disulfide isomerase ER-60;Endoplasmic reticulum resident protein 57;Endoplasmic reticulum resident protein 60;	0.25 - 0.75
QHASADEVVV	SEAESHVSGVSMVVPSTER	N-ter +28.03 Da	58.8	87.8	3	2015.14	-2.32	0.46	TDIF2_MOUSE		Deoxynucleotidyltransferase terminal-interacting protein 2;		0.00 - 0.15
QVEEYIADLY	SEEPGEEEPAWVQTER	N-ter +28.03 Da	45.5	73.5	3	1899.99	0.01	0.00	RCN3_MOUSE	D3Z7T1_MOUSE	Reticulocalbin-3;		0.25 - 0.75
RPANPNWGVF	SEFGDSSSPATR	N-ter +28.03 Da	48.9	59.9	2	1267.64	1.55	0.12	Q99K47_MOUSE	E9PV24_MOUSE			0.85 - 1.00
PTKETGWASF	SEFTSSLSTKESLR	N-ter +28.03 Da, K +28.03 Da	23.8	70.1	3	1626.96	-3.18	0.29	PP6R3_MOUSE		Serine/threonine-protein phosphatase 6 regulatory subunit 3;	SAPS domain family member 3;	0.00 - 0.15
RRLYLSHNQL	SEIPLNLPKSLAELR	N-ter +34.06 Da, K +34.06 Da	28.9	69.5	3	1747.21	0.65	0.02	ASPN_MOUSE		Asporin;	Periodontal ligament-associated protein 1;	0.25 - 0.75
PSSSGAATTV	SEKPGPKAAEVGDDFLGDFVVGER	N-ter +28.03 Da, K +28.03 Da	42.9	111.1	4	2602.62	-2.06	0.34	CLIP2_MOUSE		CAP-Gly domain-containing linker protein 2;	Cytoplasmic linker protein 115;Cytoplasmic linker protein 2;	0.00 - 0.15

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	Quantile
KTMIVHDDVE	SEPAMTPSKEGTLIVR	N-ter +28.03 Da, K +28.03 Da	27.6	80.9	3	1771.10	-0.34	0.02	M4K4_MOUSE	B7ZNR9_MOUSE	Mitogen-activated protein kinase kinase kinase kinase 4;	HPK/GCK-like kinase HGK;MAPK/ERK kinase kinase kinase 4;Nck-interacting kinase;	0.25 - 0.75
DSPERELILS	SEPSPAVTPVTPTTLIAPR	N-ter +34.06 Da	44.2	84.5	3	1967.28	-1.03	0.11	SNX2_MOUSE		Sorting nexin-2;		0.15 - 0.25
PRQPTVTSVC	SESAQELAEGQR	N-ter +28.03 Da	33.3	72.9	3	1331.73	0.65	0.03	PDLI5_MOUSE	E9Q8P5_MOUSE	PDZ and LIM domain protein 5;	Enigma homolog;Enigma-like PDZ and LIM domains protein;	0.25 - 0.75
LLLLSGDAHS	SEVPGAAAEGPGGSGVGLGDR	N-ter +34.06 Da	45.8	48.8	3	1873.03	-0.45	0.02	CO024_MOUSE		UPF0480 protein C15orf24 homolog;		0.25 - 0.75
WTHEVFSSRS	SEVVLSGDDEDYQR	N-ter +34.06 Da	37.1	80.6	3	1644.90	-1.52	0.17	E9Q616_MOUSE				0.00 - 0.15
ANEVEAVKVH	SFPTLKFFPASADR	N-ter +28.03 Da, K +28.03 Da	23.2	66.9	3	1638.99	0.04	0.00	PDIA1_MOUSE	E9Q8G8_MOUSE	Protein disulfide-isomerase;	Cellular thyroid hormone-binding protein;Endoplasmic reticulum resident protein 59;Prolyl 4-hydroxylase subunit beta;p55;	0.25 - 0.75
GLVRGQKVLD	SGAPIKIPVGPETLGR	N-ter +34.06 Da, K +34.06 Da	37.8	59.3	3	1659.13	0.37	0.01	ATPB_MOUSE		ATP synthase subunit beta, mitochondrial;		0.25 - 0.75
RNLHQSGFSL	SGAQIDDNIPR	N-ter +28.03 Da	35.1	52.8	2	1212.67	1.12	0.05	DPYL2_MOUSE		Dihydropyrimidinase-related protein 2;	Unc-33-like phosphoprotein 2;	0.75 - 0.85
KLEDGPKFLK	SGDAAIVDMVPGKPMCVESFSDYPPLGR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	49.4	79.6	4	3062.76	-1.79	0.31	EF1A1_MOUSE		Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.00 - 0.15
AAASWRPVSA	SGEEFWPGQSAADILSGAASR	N-ter +28.03 Da	61.6	65.4	3	2163.17	-1.12	0.24	OFUT2_MOUSE		GDP-fucose protein O-fucosyltransferase 2;	Peptide-O-fucosyltransferase 2;	0.15 - 0.25
SHQRAADSQN	SGEGNTSAAESSFSQEVAR	N-ter +28.03 Da	52.0	71.8	3	1941.01	2.32	0.29	Q7M739_MOUSE	E9PZZ3_MOUSE			0.85 - 1.00
NIDIRSAFKR	SGEGQEDAGELDFSGLLKR	N-ter +34.06 Da, K +34.06 Da	50.4	74.8	3	2075.24	-2.32	0.12	D3YU50_MOUSE	Q6P6L5_MOUSE			0.00 - 0.15
VLDGADCIML	SGETAKGDYPLEAVR	N-ter +34.06 Da, K +34.06 Da	32.5	86.3	3	1660.05	-0.89	0.15	KPYM_MOUSE		Pyruvate kinase isozymes M1/M2;	Pyruvate kinase muscle isozyme;	0.15 - 0.25
KVFHILDKDK	SGFIEEDELGSILKGFSSDAR	N-ter +28.03 Da, K +28.03 Da	32.0	68.3	3	2312.31	-0.45	0.08	PRVA_MOUSE		Parvalbumin alpha;		0.25 - 0.75
QAPPVRNLHQ	SGFSLSGAQIDDNIPR	N-ter +34.06 Da	33.7	53.4	3	1709.97	2.47	0.19	DPYL2_MOUSE		Dihydropyrimidinase-related protein 2;	Unc-33-like phosphoprotein 2;	0.85 - 1.00
RGAAVTRSMA	SGGGVPTDEEQATGLER	N-ter +34.06 Da	43.3	67.1	3	1735.96	-0.79	0.05	COX5B_MOUSE	Q9D881_MOUSE	Cytochrome c oxidase subunit 5B, mitochondrial;	Cytochrome c oxidase polypeptide Vb;	0.15 - 0.25
RKDLYANTVL	SGGTTMYPGIADR	N-ter +34.06 Da	40.2	51.7	2	1358.74	-0.60	0.03	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.25 - 0.75
VSVERALADE	SGLDTYSLSGGGGVPVLVR	N-ter +34.06 Da	60.8	59.2	3	1867.14	0.49	0.04	A2BFA6_MOUSE				0.25 - 0.75
ETTALVCDNG	SGLVKAGFAGDDAPR	N-ter +34.06 Da, K +34.06 Da	30.0	63.6	3	1527.97	0.39	0.03	ACTC_MOUSE	ACTS_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
GKTVIRLPSG	SGPASPTTGSAVDIR	N-ter +34.06 Da	68.4	43.3	2	1448.83	0.12	0.02	E9Q616_MOUSE				0.25 - 0.75
AAQYSDKGVS	SGPGPMGLMGPR	N-ter +34.06 Da	42.9	54.0	2	1189.68	-1.18	0.05	CO1A2_MOUSE	E0CXI2_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.15 - 0.25
SLSKERHQCT	SGPIVTLQGNDKSTSPDPDWSSQLER	N-ter +34.06 Da, K +34.06 Da	38.7	82.6	4	2881.71	-0.15	0.02	SYNP2_MOUSE	D3YVV9_MOUSE	Synaptopodin-2;	Myopodin;	0.25 - 0.75
FFTGLVKYMH	SGPVVAMVWEGLNVVKTGR	N-ter +34.06 Da, K +34.06 Da	21.0	75.4	3	2066.35	-0.25	0.01	NDKA_MOUSE	NDKB_MOUSE	Nucleoside diphosphate kinase A;	Metastasis inhibition factor NM23;NDPK-A;Tumor metastatic process-associated protein;nm23-M1;	0.25 - 0.75
PSGPVGKDGR	SGQPGPVGPAGVR	N-ter +28.03 Da	33.8	50.1	2	1205.71	0.14	0.01	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.25 - 0.75
SSANRRAGSS	SGSGVQGASAGGLAADASR	N-ter +28.03 Da	67.3	62.4	3	1645.90	1.63	0.14	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.85 - 1.00
MYTPIPQ	SGSPFPASVQDPGLHIWR	N-ter +34.06 Da	23.2	82.0	3	1984.20	-1.52	0.39	CAPG_MOUSE	Q99LB4_MOUSE	Macrophage-capping protein;	Actin regulatory protein CAP-G;Actin-capping protein GCAP39;Myc basic motif homolog 1;	0.00 - 0.15
ASSREGSPAR	SGTPVHCPSPIR	N-ter +34.06 Da, C +57.02 Da	41.7	53.8	3	1340.78	0.26	0.01	BAG3_MOUSE		BAG family molecular chaperone regulator 3;	Bcl-2-associated athanogene 3;Bcl-2-binding protein Bis;	0.25 - 0.75
MA	SGVAVSDGVIKVFNDMKVR	N-ter +28.03 Da, K +28.03 Da	21.4	115.1	4	2104.41	4.16	0.25	COF1_MOUSE	E9Q1T2_MOUSE	Cofilin-1;	Cofilin, non-muscle isoform;	0.85 - 1.00
DTSQKDQSPA	SHEIATNLGDFAISLYR	N-ter +34.06 Da	45.5	76.5	3	1940.17	0.25	0.03	A1AT1_MOUSE	A1AT2_MOUSE	Alpha-1-antitrypsin 1-1;	Alpha-1 protease inhibitor 1;Alpha-1-antiproteinase;Serine protease inhibitor 1-1;Serine protease inhibitor A1a;	0.25 - 0.75
RSTCHNQNSM	SICEEFSQQADDKGCFR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	45.9	79.9	3	2132.10	-4.32	0.86	A2M_MOUSE	D3YW52_MOUSE	Alpha-2-macroglobulin;	Pregnancy zone protein;	0.00 - 0.15
ASTSQSSRAA	SIFGGAKPVDTAAR	N-ter +34.06 Da, K +34.06 Da	24.9	83.4	3	1456.99	2.47	0.47	IF4B_MOUSE	Q3TDD8_MOUSE	Eukaryotic translation initiation factor 4B;		0.85 - 1.00
LQTRFPLDYY	SIPFPTPTTPLTGR	N-ter +28.03 Da	26.7	60.3	3	1511.93	2.49	0.12	UBP2L_MOUSE	E9PZA1_MOUSE	Ubiquitin-associated protein 2-like;		0.85 - 1.00
LSEKKISSVQ	SIVPALEIANAHR	N-ter +28.03 Da	31.4	57.6	3	1417.89	1.18	0.08	CH60_MOUSE		60 kDa heat shock protein, mitochondrial;	60 kDa chaperonin;Chaperonin 60;HSP-65;Heat shock protein 60;Mitochondrial matrix protein P1;	0.75 - 0.85
RTSPVPRQKR	SIVVSPILIPENQR	N-ter +34.06 Da	41.1	95.7	3	1598.12	-0.14	0.01	CAD13_MOUSE		Cadherin-13;	Heart cadherin;Truncated cadherin;	0.25 - 0.75
LGSSCCEIFY	SKDSEGSWFR	N-ter +34.06 Da, K +34.06 Da	23.3	92.7	3	1265.79	-6.64	0.00	NIPS1_MOUSE	Q5SVG6_MOUSE	Protein NipSnap homolog 1;		0.00 - 0.15
NRPPLAAGAN	SKGPPDFSSDEEREPTPVLGSGASVGR	N-ter +28.03 Da, K +28.03 Da	51.5	79.8	4	2813.61	-0.56	0.07	LAP2A_MOUSE	LAP2B_MOUSE	Lamina-associated polypeptide 2, isoforms alpha/zeta;	Thymopoietin isoforms alpha/zeta;	0.25 - 0.75
KIGGAQNRNY	SKLLCGLLSDR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	30.7	47.5	3	1316.81	-0.20	0.01	MIF_MOUSE		Macrophage migration inhibitory factor;	Delayed early response protein 6;Glycosylation-inhibiting factor;L-dopachrome isomerase;L-dopachrome tautomerase;Phenylpyruvate tautomerase;	0.25 - 0.75
PFPATHYSTL	SKPAPLTGTLEVR	N-ter +28.03 Da, K +28.03 Da	30.1	52.9	3	1423.92	1.73	0.19	PKN1_MOUSE	D6RH37_MOUSE	Serine/threonine-protein kinase N1;	Protein kinase C-like 1;Protein kinase C-like PKN;Protein-kinase C-related kinase 1;Serine-threonine protein kinase N;	0.85 - 1.00
TITESMDDML	SKVEAANFR	N-ter +34.06 Da, K +34.06 Da	12.6	66.7	2	1088.73	-6.64	0.00	GGT7_MOUSE		Gamma-glutamyltransferase 7;	Gamma-glutamyltransferase-like 3;Gamma-glutamyltranspeptidase 7;	0.00 - 0.15
LWSLVATLLG	SKWPEPVFGR	N-ter +34.06 Da, K +34.06 Da	27.9	53.6	3	1269.82	0.03	0.00	MASP2_MOUSE		Mannan-binding lectin serine protease 2;	MBL-associated serine protease 2;Mannose-binding protein-associated serine protease 2;	0.25 - 0.75
ISRRLVDSDG	SLAEVPKEAPKVGILGSGDFAR	N-ter +28.03 Da, K +28.03 Da	21.2	85.8	4	2324.51	1.47	0.16	STEA3_MOUSE	E9QN92_MOUSE	Metalloreductase STEAP3;	Dudulin-2;Protein nm1054;Six-transmembrane epithelial antigen of prostate 3;Tumor suppressor-activated pathway protein 6;	0.85 - 1.00

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	Quantile
STVHEILCKL	SLEGDHSTPPSAYGSVKPYTNFDAER	N-ter +28.03 Da, K +28.03 Da	30.1	66.4	4	2880.55	0.07	0.01	ANXA2_MOUSE	B0V2N7_MOUSE	Annexin A2;	Annexin II;Annexin-2;Calpactin I heavy chain;Calpactin-1 heavy chain;Chromobindin-8;Lipocortin II;Placental anticoagulant protein IV;Protein I;p36;	0.25 - 0.75
NEMATAASSS	SLEKSYELPDGQVITIGNER	N-ter +34.06 Da, K +34.06 Da	45.2	78.1	3	2315.45	-1.79	0.25	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.00 - 0.15
VSSDQMAKLR	SLFSSAENEPPVPLVGNWRPPQPVKGR	N-ter +28.03 Da, K +28.03 Da	33.8	103.9	4	3013.93	-2.00	0.24	CAH3_MOUSE		Carbonic anhydrase 3;	Carbonate dehydratase III;Carbonic anhydrase III;	0.00 - 0.15
FEHRLGEAAR	SLGNAGNEIGR	N-ter +28.03 Da	44.2	62.9	2	1114.64	-1.06	0.11	DMKN_MOUSE	E9QLW7_MOUSE	Dermokine;	Epidermis-specific secreted protein SK30/SK89;	0.15 - 0.25
SLPQNQPFVF	SLGTGQVIKGWDQGLLGMCEGEKR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	31.7	109.6	4	2720.78	-3.32	0.33	FKBP2_MOUSE		Peptidyl-prolyl cis-trans isomerase FKBP2;	13 kDa FK506-binding protein;FK506-binding protein 2;Immunophilin FKBP13;Rotamase;	0.00 - 0.15
RPEPQQVGTV	SLHLGVTPSVLR	N-ter +28.03 Da	30.7	33.7	3	1305.82	-0.38	0.04	TPP1_MOUSE		Tripeptidyl-peptidase 1;	Lysosomal pepstatin-insensitive protease;Tripeptidyl aminopeptidase;Tripeptidyl-peptidase I;	0.25 - 0.75
SIRSAPPKLA	SLKGVVPEDAVETLAGSLGTR	N-ter +34.06 Da, K +34.06 Da	48.5	80.9	3	2166.43	-0.79	0.12	ICAL_MOUSE	Q921U7_MOUSE	Calpastatin;	Calpain inhibitor;	0.15 - 0.25
AMKANTMSNY	SLLPASLLDHR	N-ter +34.06 Da	45.4	63.0	3	1254.83	-1.64	0.05	ST2B1_MOUSE	E9QKC1_MOUSE	Sulfotransferase family cytosolic 2B member 1;	Alcohol sulfotransferase;Hydroxysteroid sulfotransferase 2;	0.00 - 0.15
LSPQTKRAKR	SLLSGEETGSLPGNYLVPIYSGR	N-ter +34.06 Da	29.9	44.7	3	2442.40	-3.18	0.58	MYOM1_MOUSE		Myomesin-1;	Myomesin family member 1;Skelemin;	0.00 - 0.15
FQTSSSFSAM	SLPGAPTASSGTAAYPALPNR	N-ter +28.03 Da	32.5	59.8	3	2026.17	-0.58	0.06	ARNT_MOUSE	Q3ULM2_MOUSE	Aryl hydrocarbon receptor nuclear translocator;	Dioxin receptor, nuclear translocator;Hypoxia-inducible factor 1-beta;	0.25 - 0.75
RSLLSGEETG	SLPGNYLVPIYSGR	N-ter +34.06 Da	44.9	32.7	2	1568.93	-0.12	0.01	MYOM1_MOUSE		Myomesin-1;	Myomesin family member 1;Skelemin;	0.25 - 0.75
LLGSPSRRSY	SLPPHQKVPLPSLSPTMQAGTIAR	N-ter +28.03 Da, K +28.03 Da	44.6	55.2	4	2581.58	-0.58	0.01	ODP2_MOUSE		Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial;	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex;Pyruvate dehydrogenase complex component E2;	0.25 - 0.75
QTPGMRRCSS	SLPPIQAPSHPPPQPPTQPR	N-ter +28.03 Da	35.5	44.4	4	2169.27	1.20	0.04	RHG17_MOUSE	F8WJ58_MOUSE	Rho GTPase-activating protein 17;	Neuron-associated developmentally-regulated protein;Rho-type GTPase-activating protein 17;	0.75 - 0.85
TDKPFDQTTI	SLQMGTNKGASQAGMLAPGTR	N-ter +34.06 Da, K +34.06 Da	39.7	101.8	4	2143.37	1.78	0.13	CNN3_MOUSE		Calponin-3;	Calponin, acidic isoform;	0.85 - 1.00
ASVILQHLRM	SMHTEAAEVLLER	N-ter +34.06 Da	54.7	60.8	3	1518.89	-1.40	0.11	HIBCH_MOUSE	E0CX19_MOUSE	3-hydroxyisobutyryl-CoA hydrolase, mitochondrial;	3-hydroxyisobutyryl-coenzyme A hydrolase;	0.15 - 0.25
ASGPENFQVG	SMPPAQQQITSGQMHR	N-ter +34.06 Da	62.0	85.6	3	1830.07	-4.32	0.86	TLN1_MOUSE	F8WGT0_MOUSE	Talin-1;		0.00 - 0.15
STAASRATTL	SNAVSSLASTGLSLTKVDER	N-ter +28.03 Da, K +28.03 Da	32.9	78.9	3	2090.29	1.15	0.09	PICA_MOUSE		Phosphatidylinositol-binding clathrin assembly protein;	Clathrin assembly lymphoid myeloid leukemia;	0.75 - 0.85
TPGHACTQKF	SNEEIAMATVTALR	N-ter +28.03 Da	36.7	41.8	3	1532.85	-0.20	0.02	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
EQFLPMMQAI	SNNKDQGGYEDFVEGLR	N-ter +28.03 Da, K +28.03 Da	77.0	48.0	3	1983.03	0.70	0.10	MYL1_MOUSE	E9PWG4_MOUSE	Myosin light chain 1/3, skeletal muscle isoform;	Myosin light chain alkali 1/2;	0.25 - 0.75
KSFVLNLGKD	SNNLCLHFNPR	N-ter +34.06 Da, C +57.02 Da	26.8	56.4	3	1404.79	-0.56	0.03	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;	0.25 - 0.75
LLAACGSVTM	SNPGESSFDLADRLDPVEKIDR	N-ter +34.06 Da, K +34.06 Da	25.5	70.0	4	2527.50	0.16	0.02	SODE_MOUSE		Extracellular superoxide dismutase [Cu-Zn];		0.25 - 0.75
TSGDSLTVAS	SNTDFAFSLYR	N-ter +28.03 Da	42.0	68.8	2	1347.74	4.33	1.41	SPA3G_MOUSE	D3Z450_MOUSE	Serine protease inhibitor A3G;	Serine protease inhibitor 2A;	0.85 - 1.00
KIPRHEVTEI	SNTDVETQPGKTVIR	N-ter +34.06 Da, K +34.06 Da	41.2	94.7	3	1712.14	0.10	0.01	E9Q616_MOUSE				0.25 - 0.75
LHPTLILAQQ	SNVDELGCSHLGQSYESR	N-ter +28.03 Da, C +57.02 Da	45.7	69.3	3	2065.06	0.79	0.12	CO3A1_MOUSE	Q5DTG2_MOUSE	Collagen alpha-1(III) chain;		0.25 - 0.75
RSIISRLFGT	SPAAEVTPSPPEPAPALEAPAR	N-ter +28.03 Da	27.1	54.8	3	2182.25	1.09	0.04	PARF_MOUSE		Putative GTP-binding protein Parf;		0.75 - 0.85
QETDTSQKDQ	SPASHEIATNLGDFALR	N-ter +34.06 Da	46.9	59.7	3	1832.07	0.03	0.00	A1AT4_MOUSE		Alpha-1-antitrypsin 1-4;	Alpha-1 protease inhibitor 4;Serine protease inhibitor 1-4;Serine protease inhibitor A1d;	0.25 - 0.75
NSTHPMHSRC	SPDPGLTALLSDHR	N-ter +28.03 Da	64.7	67.7	3	1505.89	0.79	0.08	HEMO_MOUSE		Hemopexin;		0.25 - 0.75
MPGVGLPELG	SPGLPPLPSLPPR	N-ter +34.06 Da	32.0	60.9	3	1360.91	-0.06	0.00	GORS2_MOUSE	A2ATI9_MOUSE	Golgi reassembly-stacking protein 2;	Golgi reassembly-stacking protein of 55 kDa;	0.25 - 0.75
RGKTKATKSC	SPPPPPPEPTSEGR	N-ter +34.06 Da	50.9	73.9	3	1477.87	0.42	0.03	BCAS1_MOUSE	A2AVX1_MOUSE	Breast carcinoma-amplified sequence 1 homolog;	Novel amplified in breast cancer 1 homolog;	0.25 - 0.75
KEEQAPPMLG	SQEGHLVEEVILR	N-ter +34.06 Da	24.1	45.8	3	1541.93	-1.89	0.14	SYNP2_MOUSE	D3YVV9_MOUSE	Synaptopodin-2;	Myopodin;	0.00 - 0.15
PVRNRKVVDY	SQFQESDDADEDYGR	N-ter +34.06 Da	47.3	80.9	3	1794.89	1.25	0.23	NUCKS_MOUSE		Nuclear ubiquitous casein and cyclin-dependent kinases substrate;	JC7;	0.75 - 0.85
TFLPRKIISL	SQLLQEDSLNVADLSSLR	N-ter +28.03 Da	57.9	67.2	3	2015.19	-3.84	0.55	PSME2_MOUSE	E0CZ90_MOUSE	Proteasome activator complex subunit 2;	11S regulator complex subunit beta;Activator of multicatalytic protease subunit 2;Proteasome activator 28 subunit beta;	0.00 - 0.15
GSYSQAPSQY	SQQSSSYGQQSSFR	N-ter +34.06 Da	27.5	88.5	3	1609.90	-1.32	0.10	EWS_MOUSE	Q5SUS8_MOUSE	RNA-binding protein EWS;		0.15 - 0.25
ISKVRVHIQG	SRGESQEVALPSR	N-ter +34.06 Da	35.9	82.5	3	1448.90	-0.30	0.02	Q3URZ6_MOUSE	F7DBB3_MOUSE			0.25 - 0.75
DQMAKLRSLF	SSAENEPPVPLVGNWRPPQPVKGR	N-ter +28.03 Da, K +28.03 Da	33.4	95.0	4	2666.68	1.26	0.14	CAH3_MOUSE		Carbonic anhydrase 3;	Carbonate dehydratase III;Carbonic anhydrase III;	0.75 - 0.85
RSPGASRAAM	SSDAQWLTAEER	N-ter +34.06 Da	43.8	32.8	2	1425.74	-0.60	0.06	PHS2_MOUSE		Pterin-4-alpha-carbinolamine dehydratase 2;	4-alpha-hydroxy-tetrahydropterin dehydratase 2;DcoH-like protein DCoHm;Dimerization cofactor of hepatocyte nuclear factor 1 from muscle;HNF-1-alpha dimerization cofactor;	0.25 - 0.75
VLQTRGFVSD	SSDSMDTGAGSIR	N-ter +34.06 Da	47.2	51.7	2	1316.68	0.84	0.07	ATIF1_MOUSE	Q9D879_MOUSE	ATPase inhibitor, mitochondrial;	Inhibitor of F(1)F(o)-ATPase;	0.25 - 0.75

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	Quantile
DRPRQPSPSQ	SSDSQVHSGVQVEGR	N-ter +28.03 Da	33.6	113.2	3	1598.95	-4.64	1.16	E9Q019_MOUSE	FILA_MOUSE			0.00 - 0.15
SPRRSPVHPE	SSEGEEHSVVPQR	N-ter +28.03 Da	33.6	103.7	3	1467.85	0.06	0.01	FILA2_MOUSE	FILA2_MOUSE	Filaggrin-2;	Intermediate filament-associated protein;	0.25 - 0.75
LDSPERELIL	SSEPSPAVTPVTPTTLIAPR	N-ter +34.06 Da	46.1	75.7	3	2054.30	0.10	0.01	SNX2_MOUSE		Sorting nexin-2;		0.25 - 0.75
TDEQALEDHF	SSFGPISEVVVVKDR	N-ter +34.06 Da, K +34.06 Da	32.3	77.9	3	1686.13	-2.25	0.21	RBM3_MOUSE	Q8BG13_MOUSE	Putative RNA-binding protein 3;	RNA-binding motif protein 3;	0.00 - 0.15
IIRKVVRQVD	SSGAIDTQQHEEVELR	N-ter +28.03 Da	46.1	94.1	3	1826.05	-1.32	0.43	ANK1_MOUSE	D3YTV8_MOUSE	Ankyrin-1;	Erythrocyte ankyrin;	0.15 - 0.25
VVLLFETALL	SSGFSLEDPQTHSNR	N-ter +28.03 Da	54.9	69.3	3	1688.89	1.66	0.07	HS90B_MOUSE	Q71LX8_MOUSE	Heat shock protein HSP 90-beta;	Heat shock 84 kDa;Tumor-specific transplantation 84 kDa antigen;	0.85 - 1.00
CGLSDPNLTL	SSGKDGQCPLVVEQVR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	47.5	64.4	3	1814.05	1.29	0.17	LRC47_MOUSE	F6YT33_MOUSE	Leucine-rich repeat-containing protein 47;		0.75 - 0.85
YTENGGGQGY	SSGPGASPETQGKANVTR	N-ter +28.03 Da, K +28.03 Da	29.4	97.8	3	1799.09	1.87	0.39	CD34_MOUSE		Hematopoietic progenitor cell antigen CD34;		0.85 - 1.00
DDGLADLLFV	SSGPTNASAFTER	N-ter +34.06 Da	72.8	47.1	2	1357.73	1.92	0.12	MAP4_MOUSE	E9QPW8_MOUSE	Microtubule-associated protein 4;		0.85 - 1.00
GTPAPNKRRK	SSKLIMELTGGGR	N-ter +34.06 Da, K +34.06 Da	27.4	34.1	3	1415.89	-1.94	0.22	MYOZ1_MOUSE		Myozenin-1;	Calsarcin-2;Filamin-, actinin- and telethonin-binding protein;Protein FATZ;	0.00 - 0.15
QAYKALKDYK	SSLSDISSLLQIEPR	N-ter +34.06 Da	51.2	67.2	3	1678.05	0.32	0.03	TOM34_MOUSE		Mitochondrial import receptor subunit TOM34;	Translocase of outer membrane 34 kDa subunit;	0.25 - 0.75
TQPRTTAGTY	SSPPPASYSTLQAPALSVTGPITANSEQIAR	N-ter +34.06 Da	25.8	68.1	4	3144.87	-3.47	0.39	TM1L2_MOUSE	Q5SXA4_MOUSE	TOM1-like protein 2;	Target of Myb-like protein 2;	0.00 - 0.15
AAHVAPRRSI	SSQQTIPPSAKYGGR	N-ter +34.06 Da, K +34.06 Da	26.8	46.7	3	1644.00	0.06	0.00	IDHG1_MOUSE		Isocitrate dehydrogenase [NAD] subunit gamma 1, mitochondrial;	Isocitric dehydrogenase subunit gamma;NAD(+)-specific ICDH subunit gamma;	0.25 - 0.75
QSSSANRRAG	SSSGSGVQGASAGGLAADASR	N-ter +28.03 Da	70.2	72.2	3	1820.00	2.43	0.21	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.85 - 1.00
FENEMATAAS	SSSLEKSYELPDGQVITIGNER	N-ter +34.06 Da, K +34.06 Da	47.3	75.3	3	2489.52	-3.06	0.26	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.00 - 0.15
DFENEMATAA	SSSSLEKSYELPDGQVITIGNER	N-ter +28.03 Da, K +28.03 Da	48.2	55.7	3	2564.44	-0.32	0.03	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
ELDKVKSATL	SSTESTASGMQDEVR	N-ter +34.06 Da	40.8	79.5	3	1617.87	-1.56	0.28	AKA12_MOUSE	F8WI21_MOUSE	A-kinase anchor protein 12;	Germ cell lineage protein gercelin;Src-suppressed C kinase substrate;	0.00 - 0.15
LVLAARHASA	SSTNLKDVLSNLIPKEQAR	N-ter +34.06 Da, K +34.06 Da	19.6	89.5	4	2214.54	-1.79	0.31	CISY_MOUSE		Citrate synthase, mitochondrial;		0.00 - 0.15
LWSWLPSIGF	SSVEEMAAESR	N-ter +28.03 Da	50.2	59.7	2	1222.62	0.26	0.02	Q3URZ6_MOUSE	F7DBB3_MOUSE			0.25 - 0.75
EVREAKPALK	SSVETQPAEEVR	N-ter +34.06 Da	56.3	49.9	2	1364.77	0.20	0.02	E41L2_MOUSE	Q811B2_MOUSE	Band 4.1-like protein 2;	Generally expressed protein 4.1;	0.25 - 0.75
FVPMEENSIY	SSWQEVTEFPVIVQR	N-ter +34.06 Da	36.5	74.2	3	1838.12	-0.07	0.00	DOK3_MOUSE		Docking protein 3;	Downstream of tyrosine kinase 3;p62(dok)-like protein;	0.25 - 0.75
YQQPQQQQMT	SSYGGYKEPAAPVSIQR	N-ter +34.06 Da, K +34.06 Da	27.2	75.5	3	1877.17	-1.52	0.26	LASP1_MOUSE	A2A6H0_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.00 - 0.15
LDKVKSATLS	STESTASGMQDEVR	N-ter +34.06 Da	45.4	72.7	3	1530.82	-0.56	0.09	AKA12_MOUSE	F8WI21_MOUSE	A-kinase anchor protein 12;	Germ cell lineage protein gercelin;Src-suppressed C kinase substrate;	0.25 - 0.75
LFRAAVPSGA	STGIYEALELR	N-ter +34.06 Da	42.7	22.9	2	1284.74	1.00	0.03	ENOA_MOUSE	ENOB_MOUSE	Alpha-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 1;Non-neural enolase;	0.75 - 0.85
IHRAAAVAAM	STGTFVVSQPLNYR	N-ter +34.06 Da	37.0	36.4	3	1601.92	0.04	0.00	AL9A1_MOUSE	Q3U367_MOUSE	4-trimethylaminobutyraldehyde dehydrogenase;	Aldehyde dehydrogenase family 9 member A1;	0.25 - 0.75
QSMLSTQNQY	STLSKPAALTGTLEVR	N-ter +34.06 Da, K +34.06 Da	31.1	63.0	3	1711.16	3.26	0.33	PKN2_MOUSE	F6TJL1_MOUSE	Serine/threonine-protein kinase N2;	PKN gamma;Protein kinase C-like 2;Protein-kinase C-related kinase 2;	0.85 - 1.00
LPGPFPATHY	STLSKPAPLTGTLEVR	N-ter +34.06 Da, K +34.06 Da	21.4	69.5	3	1737.19	-1.29	0.03	PKN1_MOUSE	D6RH37_MOUSE	Serine/threonine-protein kinase N1;	Protein kinase C-like 1;Protein kinase C-like PKN;Protein-kinase C-related kinase 1;Serine-threonine protein kinase N;	0.15 - 0.25
SVIAHVDHGK	STLTDSLVCKAGIIASAR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	21.2	60.1	3	1930.24	1.24	0.08	EF2_MOUSE		Elongation factor 2;		0.75 - 0.85
TARVQEIRRF	STPAPQPTAEPLAPTVLVPR	N-ter +28.03 Da	22.4	74.1	3	2069.31	-0.23	0.02	SYP2L_MOUSE	B2RQK7_MOUSE	Synaptopodin 2-like protein;		0.25 - 0.75
QTSVAIGRSF	STPQSQFQESSPVWKLGR	N-ter +34.06 Da, K +34.06 Da	32.7	48.8	3	2129.26	0.10	0.01	MCEE_MOUSE		Methylmalonyl-CoA epimerase, mitochondrial;	DL-methylmalonyl-CoA racemase;	0.25 - 0.75
PLYFGGDRLR	STQAAPQVVLNVPETQVTCLENGLR	N-ter +34.06 Da, C +57.02 Da	32.2	55.4	4	2757.61	-2.00	0.24	MPPB_MOUSE		Mitochondrial-processing peptidase subunit beta;	Beta-MPP;P-52;	0.00 - 0.15
SGELTVTFHT	STSIGSAEKSASGEPTTGDR	N-ter +28.03 Da, K +28.03 Da	23.6	72.4	4	1993.10	1.79	0.06	CSPG2_MOUSE	E9QMK2_MOUSE	Versican core protein;	Chondroitin sulfate proteoglycan core protein 2;Large fibroblast proteoglycan;PG-M;	0.85 - 1.00
SSSSSSNFHI	SVEESVDGKVVSSR	N-ter +28.03 Da, K +28.03 Da	36.5	51.4	3	1532.88	2.18	0.14	K1C15_MOUSE	B1AQ77_MOUSE	Keratin, type I cytoskeletal 15;	Cytokeratin-15;Keratin-15;	0.85 - 1.00
DLRHAFSPVA	SVESASGETLHSPKVGQPGAAGPVSPMCPGR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	49.0	68.5	4	3102.74	-1.40	0.22	FETUA_MOUSE		Alpha-2-HS-glycoprotein;	Countertrypin;Fetuin-A;	0.15 - 0.25
GESGNKGEPG	SVGAQGPPGPSGEEGKR	N-ter +34.06 Da, K +34.06 Da	27.1	82.4	3	1677.05	-0.40	0.05	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.25 - 0.75
LAKGRRAEDG	SVIDYELIDQDAR	N-ter +34.06 Da	37.5	50.3	3	1569.89	0.03	0.00	ANXA2_MOUSE	B0V2N7_MOUSE	Annexin A2;	Annexin II;Annexin-2;Calpactin I heavy chain;Calpactin-1 heavy chain;Chromobindin-8;Lipocortin II;Placental anticoagulant protein IV;Protein I;p36;	0.25 - 0.75
LESKSNKIVQ	SVIQTAVDQFAR	N-ter +28.03 Da	42.8	66.0	3	1361.82	-0.84	0.12	AKA12_MOUSE		A-kinase anchor protein 12;	Germ cell lineage protein gercelin;Src-suppressed C kinase substrate;	0.15 - 0.25
FRECDYNKFM	SVLDTNKDCEVDFGEYVR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	35.1	77.4	3	2201.20	1.51	0.47	S10A3_MOUSE		Protein S100-A3;	Protein S-100E;S100 calcium-binding protein A3;	0.85 - 1.00
AITARRQHLK	SVMLQIAATELEKEESR	N-ter +28.03 Da, K +28.03 Da	48.8	80.9	3	1989.21	-1.40	0.11	TNNI2_MOUSE	A2A6K0_MOUSE	Troponin I, fast skeletal muscle;	Troponin I, fast-twitch isoform;	0.15 - 0.25
GHPLYRKYML	SVPHGIANEDIVSR	N-ter +34.06 Da	50.0	57.2	3	1526.91	0.73	0.04	SH319_MOUSE	F8WI17_MOUSE	SH3 domain-containing protein 19;	Kryn;	0.25 - 0.75
TKIFTASNVS	SVPLPAENVTITAGQR	N-ter +34.06 Da	41.9	35.8	3	1686.01	0.01	0.00	UBP2L_MOUSE	E9Q9Q3_MOUSE	Ubiquitin-associated protein 2-like;		0.25 - 0.75
FQHVGTSVFL	SVTGEQYGNPIR	N-ter +34.06 Da	34.1	65.3	3	1353.80	-0.25	0.02	SDF2L_MOUSE		Stromal cell-derived factor 2-like protein 1;		0.25 - 0.75
VYSPLAHRAY	SVVAGGPEVTLTPER	N-ter +34.06 Da	50.0	43.0	3	1544.93	0.52	0.02	D2HDH_MOUSE	E9QN44_MOUSE	D-2-hydroxyglutarate dehydrogenase, mitochondrial;		0.25 - 0.75
HIEEESTIRY	SWQDEIAQGTWR	N-ter +34.06 Da	32.6	94.5	3	1509.89	-1.12	0.12	SYNEM_MOUSE	F6VN34_MOUSE	Synemin;	Desmuslin;	0.15 - 0.25
ALNDNFVKLI	SWYDNEYGYSNR	N-ter +28.03 Da	34.3	80.7	3	1580.78	0.75	0.09	G3P_MOUSE	F8WJL5_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.25 - 0.75
TAASSSSLEK	SYELPDGQVITIGNER	N-ter +28.03 Da	44.7	68.0	3	1818.04	0.00	0.00	ACTB_MOUSE	ACTA_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.25 - 0.75
TVGCVAGDEE	SYTVFKDLFDPIIQDR	N-ter +28.03 Da, K +28.03 Da	45.7	74.3	3	2012.21	-0.32	0.07	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75

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	Quantile
LQKRGTGGVD	TAAVGAVFDISNADR	N-ter +28.03 Da	44.7	42.4	3	1533.84	-0.12	0.00	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
GSWEPFASGK	TAESGELHGLTTDEKFVEGVYR	N-ter +34.06 Da, K +34.06 Da	36.9	69.7	4	2505.48	-0.32	0.05	TTHY_MOUSE		Transthyretin;	Prealbumin;	0.25 - 0.75
AAFSLAEAKF	TAGDFSTTVIQNVNKAQVKIR	N-ter +28.03 Da, K +28.03 Da	30.8	78.1	4	2373.52	-0.17	0.01	VATD_MOUSE	E9Q0D9_MOUSE	V-type proton ATPase subunit D;	V-ATPase 28 kDa accessory protein;Vacuolar proton pump subunit D;	0.25 - 0.75
NEDLSETKIF	TASNVSSVPLPAENVTITAGQR	N-ter +28.03 Da	46.5	57.5	3	2239.31	0.60	0.06	UBP2L_MOUSE	E9Q9Q3_MOUSE	Ubiquitin-associated protein 2-like;		0.25 - 0.75
DTCCKAADKD	TCFSTEGPNLVTR	N-ter +28.03 Da, C +57.02 Da	42.3	36.7	2	1508.79	1.15	0.11	ALBU_MOUSE		Serum albumin;		0.75 - 0.85
MVHL	TDAEKAAVSCLWGKVNSDEVGGEALGR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	43.8	74.9	4	2920.76	0.24	0.03	HBB1_MOUSE		Hemoglobin subunit beta-1;	Beta-1-globin;Hemoglobin beta-1 chain;Hemoglobin beta-major chain;	0.25 - 0.75
MVHL	TDAEKSAVSCLWAKVNPDEVGGEALGR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	46.4	104.5	4	2960.89	-5.06	0.00	HBB2_MOUSE		Hemoglobin subunit beta-2;	Beta-2-globin;Hemoglobin beta-2 chain;Hemoglobin beta-minor chain;	0.00 - 0.15
TYGTAAAKAY	TDDLGAVGGACLEDEASALR	N-ter +28.03 Da, C +57.02 Da	61.3	74.7	3	2047.11	-0.97	0.08	WIPI2_MOUSE	D3YWK1_MOUSE	WD repeat domain phosphoinositide-interacting protein 2;		0.15 - 0.25
RELPSFLGER	TDEAAFQKVMSNLDSNR	N-ter +28.03 Da, K +28.03 Da	26.3	80.0	3	1981.12	1.20	0.18	S10A4_MOUSE	D3YUT9_MOUSE	Protein S100-A4;	Metastasin;Metastatic cell protein;PEL98;Placental calcium-binding protein;Protein 18A2;Protein Mts1;S100 calcium-binding protein A4;	0.75 - 0.85
VLRKAMKGLG	TDEDSILNLLTSR	N-ter +34.06 Da	34.1	55.6	3	1509.89	-0.18	0.03	ANXA5_MOUSE		Annexin A5;	Anchorin CII;Annexin V;Annexin-5;Calphobindin I;Endonexin II;Lipocortin V;Placental anticoagulant protein 4;Placental anticoagulant protein I;Thromboplastin inhibitor;Vascular anticoagulant-alpha;	0.25 - 0.75
AESGELHGLT	TDEKFVEGVYR	N-ter +28.03 Da, K +28.03 Da	21.6	96.1	3	1397.85	1.12	0.05	TTHY_MOUSE		Transthyretin;	Prealbumin;	0.75 - 0.85
INRVYKEMYK	TDLEKDIISDTSGDFR	N-ter +34.06 Da, K +34.06 Da	26.3	62.0	3	1879.10	-0.79	0.11	ANXA2_MOUSE	B0V2N7_MOUSE	Annexin A2;	Annexin II;Annexin-2;Calpactin I heavy chain;Calpactin-1 heavy chain;Chromobindin-8;Lipocortin II;Placental anticoagulant protein IV;Protein I;p36;	0.15 - 0.25
GGYKPTDKHK	TDLNHENLKGGDDLDPNYVLSSR	N-ter +28.03 Da, K +28.03 Da	38.2	75.4	4	2627.48	0.51	0.08	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
SRRSTQGVTL	TDLQEAEKTIGR	N-ter +34.06 Da, K +34.06 Da	25.8	68.1	3	1427.92	1.05	0.12	MYPT1_MOUSE		Protein phosphatase 1 regulatory subunit 12A;	Myosin phosphatase-targeting subunit 1;	0.75 - 0.85
AHVDHGKSTL	TDSLVCKAGIIASAR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	29.1	64.8	3	1629.06	1.10	0.06	EF2_MOUSE		Elongation factor 2;		0.75 - 0.85
ILSVASTVWT	TDTEDKGEFLSEGGGVR	N-ter +34.06 Da, K +34.06 Da	33.5	94.4	3	1864.13	-2.40	0.63	Q99K47_MOUSE	E9PV24_MOUSE			0.00 - 0.15
PRHEVTEISN	TDVETQPGKTVIR	N-ter +28.03 Da, K +28.03 Da	21.7	89.9	3	1498.97	0.42	0.08	E9Q616_MOUSE				0.25 - 0.75
LRQIKINEVQ	TDVSVDTKHQTLQGVAFPISR	N-ter +28.03 Da, K +28.03 Da	41.1	48.8	4	2354.37	-1.47	0.16	TWF1_MOUSE		Twinfilin-1;	Protein A6;	0.15 - 0.25
WLLCALGLQA	TEAELPSAPAELPGGAACLSR	N-ter +34.06 Da, C +57.02 Da	42.2	63.8	3	2130.22	1.59	0.20	SPIT1_MOUSE		Kunitz-type protease inhibitor 1;	Hepatocyte growth factor activator inhibitor type 1;	0.85 - 1.00
RRGAISAEVY	TEEDAASYVR	N-ter +34.06 Da	29.8	56.7	2	1173.64	0.00	0.00	KAP0_MOUSE	A2AI69_MOUSE	cAMP-dependent protein kinase type I-alpha regulatory subunit;		0.25 - 0.75
KDWSFYILAH	TEFTPTETDTYACR	N-ter +28.03 Da, C +57.02 Da	26.9	49.2	3	1718.83	2.61	0.21	B2MG_MOUSE	Q91XJ8_MOUSE	Beta-2-microglobulin;		0.85 - 1.00
AGNNWAKGHY	TEGAELVDSVLDVVR	N-ter +28.03 Da	51.8	67.3	3	1628.97	0.20	0.04	TBB2A_MOUSE	TBB2B_MOUSE	Tubulin beta-2A chain;		0.25 - 0.75
VTEEEAAAAQ	TEGPSTPSSFPAQEEHR	N-ter +34.06 Da	29.9	101.9	3	1890.09	-2.06	0.43	AKA12_MOUSE		A-kinase anchor protein 12;	Germ cell lineage protein gercelin;Src-suppressed C kinase substrate;	0.00 - 0.15
KLEEERHTLI	TEMVALNPDFKPPADYKPPATR	N-ter +34.06 Da, K +34.06 Da	39.0	73.1	4	2559.61	0.40	0.06	SF01_MOUSE	Q3UI45_MOUSE	Splicing factor 1;	CW17;Mammalian branch point-binding protein;Transcription factor ZFM1;Zinc finger gene in MEN1 locus;Zinc finger protein 162;	0.25 - 0.75
KKRLETYYNA	TEPVISFYDKR	N-ter +28.03 Da, K +28.03 Da	26.7	55.7	3	1409.83	0.68	0.06	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.25 - 0.75
ETGAGISETV	TETTVTETTVTETTEPENQSLIMKLR	N-ter +28.03 Da, K +28.03 Da	41.2	95.4	4	3007.81	0.28	0.03	PP1RB_MOUSE		Protein phosphatase 1 regulatory subunit 11;	T-complex testis expressed protein 5;	0.25 - 0.75
ESVRSPGSSR	TEVLVTPAGVASKR	N-ter +34.06 Da, K +34.06 Da	52.7	55.7	3	1495.02	1.73	0.18	LAD1_MOUSE		Ladinin-1;	Linear IgA disease antigen homolog;	0.85 - 1.00
TLNAANVPAG	TEVVCAPPTAYIDFAR	N-ter +28.03 Da, C +57.02 Da	45.1	56.9	3	1837.01	1.04	0.09	TPIS_MOUSE		Triosephosphate isomerase;	Triose-phosphate isomerase;	0.75 - 0.85
SFRILAQMTG	TEYMQDPDEEALRR	N-ter +28.03 Da	27.2	75.6	3	1779.94	-0.01	0.00	LDB3_MOUSE	E9PYJ9_MOUSE	LIM domain-binding protein 3;	Protein cypher;Protein oracle;Z-band alternatively spliced PDZ-motif protein;	0.25 - 0.75
SFRILAQMTG	TEYMQDPDEEALR	N-ter +34.06 Da	37.5	85.6	3	1629.88	-0.52	0.07	E9PYJ9_MOUSE	LDB3_MOUSE			0.25 - 0.75
IAPSNQVIML	TFGKFDVEPDTYCR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	41.2	64.5	3	1789.95	-0.62	0.06	PCOC1_MOUSE	D3YZE3_MOUSE	Procollagen C-endopeptidase enhancer 1;	P14;Procollagen COOH-terminal proteinase enhancer 1;Type 1 procollagen C-proteinase enhancer protein;Type I procollagen COOH-terminal proteinase enhancer;	0.25 - 0.75
MANSER	TFIAIKPDGVQR	N-ter +28.03 Da, K +28.03 Da	28.0	74.7	3	1399.92	0.52	0.05	NDKA_MOUSE	NDKB_MOUSE	Nucleoside diphosphate kinase A;	Metastasis inhibition factor NM23;NDPK-A;Tumor metastatic process-associated protein;nm23-M1;	0.25 - 0.75
VTTLDIVRAN	TFVAELKGLDPAR	N-ter +34.06 Da, K +34.06 Da	26.2	87.7	3	1484.03	-0.23	0.01	MDHM_MOUSE		Malate dehydrogenase, mitochondrial;		0.25 - 0.75
FKEAFLLFDR	TGECKITLSQVGDVLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	41.7	66.8	3	1831.11	0.55	0.03	MYL1_MOUSE	E9PWG4_MOUSE	Myosin light chain 1/3, skeletal muscle isoform;	Myosin light chain alkali 1/2;	0.25 - 0.75
LTRLRLQKRG	TGGVDTAAVGAVFDISNADR	N-ter +34.06 Da	58.9	56.8	3	1969.11	0.62	0.04	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
KVCYAKNFGP	TGIGFGGLTQQVEKK	N-ter +28.03 Da, K +28.03 Da	25.6	65.9	3	1775.10	-0.22	0.02	CSRP3_MOUSE		Cysteine and glycine-rich protein 3;	Cysteine-rich protein 3;LIM domain protein, cardiac;Muscle LIM protein;	0.25 - 0.75
FRAAVPSGAS	TGIYEALELR	N-ter +28.03 Da	42.4	32.1	2	1191.69	0.04	0.00	ENOA_MOUSE	ENOB_MOUSE	Alpha-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 1;Non-neural enolase;	0.25 - 0.75
PAGKNGDRGE	TGPAGPAGPIGPAGAR	N-ter +28.03 Da	40.0	48.8	2	1373.81	1.35	0.10	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.75 - 0.85
HTVEKGGKHK	TGPNLHGLFGR	N-ter +34.06 Da	30.8	57.2	3	1201.75	0.25	0.02	CYC_MOUSE		Cytochrome c, somatic;		0.25 - 0.75

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	Quantile
LHASNTRLQK	TGTAEMSSILEER	N-ter +28.03 Da	45.2	27.9	2	1450.74	1.53	0.09	ATPA_MOUSE	D6RJ16_MOUSE	ATP synthase subunit alpha, mitochondrial;		0.85 - 1.00
VHKAVLDVAE	TGTEAAAATGVIGGIR	N-ter +34.06 Da	48.1	37.5	3	1477.89	0.89	0.05	SPA3K_MOUSE		Serine protease inhibitor A3K;	Contrapsin;SPI-2;	0.75 - 0.85
IKTKGKEAPF	THFDPSCLFPACR	N-ter +28.03 Da, C +57.02 Da	36.8	79.5	3	1634.86	-0.22	0.01	CAH3_MOUSE		Carbonic anhydrase 3;	Carbonate dehydratase III;Carbonic anhydrase III;	0.25 - 0.75
GGDVAFVKHT	TIFEVLPEKADR	N-ter +28.03 Da, K +28.03 Da	37.9	68.7	3	1472.93	0.66	0.05	TRFE_MOUSE	D3YYR8_MOUSE	Serotransferrin;	Beta-1 metal-binding globulin;Siderophilin;	0.25 - 0.75
M	TIGSMENVEVFTSEGKGR	N-ter +34.06 Da, K +34.06 Da	51.1	61.4	3	2008.18	-1.52	0.13	SMYD1_MOUSE		SET and MYND domain-containing protein 1;	CD8b-opposite;Zinc finger protein BOP;	0.00 - 0.15
EQLVDEGLVK	TIGVSNFNPLQIER	N-ter +34.06 Da	22.9	62.3	3	1621.01	-1.22	0.14	ALDR_MOUSE		Aldose reductase;	Aldehyde reductase;	0.15 - 0.25
LSQSPQGRVM	TIPYQPMPASSPVICAGGQDR	N-ter +28.03 Da, C +57.02 Da	51.7	61.8	3	2272.24	1.34	0.11	PCBP1_MOUSE		Poly(rC)-binding protein 1;	Alpha-CP1;Heterogeneous nuclear ribonucleoprotein E1;	0.75 - 0.85
LDAYSIQGQH	TISPLDLAKLNQVAR	N-ter +28.03 Da, K +28.03 Da	24.5	57.6	3	1694.11	0.14	0.01	PCBP1_MOUSE		Poly(rC)-binding protein 1;	Alpha-CP1;Heterogeneous nuclear ribonucleoprotein E1;	0.25 - 0.75
DALNIETAVK	TKGVDEVTIVNILTNR	N-ter +34.06 Da, K +34.06 Da	48.7	82.6	3	1839.26	-0.20	0.01	ANXA2_MOUSE	B0V2N7_MOUSE	Annexin A2;	Annexin II;Annexin-2;Calpactin I heavy chain;Calpactin-1 heavy chain;Chromobindin-8;Lipocortin II;Placental anticoagulant protein IV;Protein I;p36;	0.25 - 0.75
KPRESEKVKI	TKVFDFAGEEVR	N-ter +28.03 Da, K +28.03 Da	38.5	27.8	3	1452.80	0.77	0.02	CFDP1_MOUSE		Craniofacial development protein 1;	27 kDa craniofacial protein;Bucentaur;Protein Cp27;	0.25 - 0.75
NLDPLNNLGR	TLEIPGSSDPNIVPDGDFSSLVR	N-ter +28.03 Da	29.2	68.4	3	2442.40	-0.17	0.04	CO4B_MOUSE		Complement C4-B;		0.25 - 0.75
ELLSQEFLLL	TLEQKNIAVENEVR	N-ter +34.06 Da, K +34.06 Da	29.1	101.4	3	1710.17	-0.69	0.09	ASHWN_MOUSE		Ashwin;		0.25 - 0.75
SAANCDKSLH	TLFGDKLCAIPNLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	22.8	38.8	3	1673.00	0.54	0.04	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
SLPSTAVTSE	TLPGSLSPPVEKYR	N-ter +28.03 Da, K +28.03 Da	27.4	80.3	3	1599.03	2.33	0.13	DLG1_MOUSE	E9Q9H0_MOUSE	Disks large homolog 1;	Embryo-dlg/synapse-associated protein 97;Synapse-associated protein 97;	0.85 - 1.00
NPWEKARPEF	TLPVHFYGR	N-ter +34.06 Da	29.0	45.3	3	1122.69	-1.69	0.16	PYGM_MOUSE	E9PUM3_MOUSE	Glycogen phosphorylase, muscle form;	Myophosphorylase;	0.00 - 0.15
WDGLDPGKLY	TLVLTDPDAPSR	N-ter +28.03 Da	49.9	38.7	2	1311.75	0.99	0.05	PEBP1_MOUSE	D3Z1V4_MOUSE	Phosphatidylethanolamine-binding protein 1;	HCNPpp;	0.75 - 0.85
CNAHYPKQSF	TMVADTPENLR	N-ter +34.06 Da	37.1	47.4	2	1279.73	0.14	0.02	LASP1_MOUSE	A2A6G6_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.25 - 0.75
VDKGVVPLAG	TNGETTTQGLDGLSER	N-ter +28.03 Da	40.4	66.1	3	1705.92	0.03	0.01	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
DQSPASHEIA	TNLGDFAISLYR	N-ter +28.03 Da	52.4	44.8	2	1396.80	0.68	0.11	A1AT2_MOUSE	A1AT1_MOUSE	Alpha-1-antitrypsin 1-2;	Alpha-1 protease inhibitor 2;Alpha-1-antiproteinase;Serine protease inhibitor 1-2;Serine protease inhibitor A1b;	0.25 - 0.75
EDPNQFVPLN	TNPTEVLEKR	N-ter +34.06 Da, K +34.06 Da	32.7	26.8	3	1253.80	-0.40	0.02	ADDG_MOUSE		Gamma-adducin;	Adducin-like protein 70;	0.25 - 0.75
MALLISLPGE	TPAMAQILLLLSSACLHAGNSAR	N-ter +34.06 Da, C +57.02 Da	24.9	66.1	4	2428.48	-5.64	0.00	PILB2_MOUSE	F8WHI2_MOUSE	Paired immunoglobulin-like type 2 receptor beta-2;	Activating receptor PILR-beta-2;	0.00 - 0.15
SRLTLYDIAH	TPGVAADLSHIETR	N-ter +28.03 Da	39.8	45.6	3	1493.85	0.49	0.02	MDHM_MOUSE		Malate dehydrogenase, mitochondrial;		0.25 - 0.75
WRCVLKIGEH	TPSALAIMENANVLAR	N-ter +28.03 Da	39.1	57.2	3	1698.01	0.43	0.08	ALDOA_MOUSE	A6ZI44_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
GLPGSMGPPG	TPSVDHGFLVTR	N-ter +28.03 Da	26.9	73.8	3	1355.82	2.04	0.04	CO4A1_MOUSE		Collagen alpha-1(IV) chain;		0.85 - 1.00
MVKIVTVK	TQAYPDQKPGTSGLR	N-ter +34.06 Da, K +34.06 Da	26.6	86.3	3	1686.08	-1.89	0.21	PGM1_MOUSE		Phosphoglucomutase-1;	Glucose phosphomutase 1;	0.00 - 0.15
GFQNAILVRY	TQKAPQVSTPTLVEAAR	N-ter +34.06 Da, K +34.06 Da	39.0	53.2	3	1864.21	0.29	0.02	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
PNMVTPGHAC	TQKFSNEEIAMATVTALR	N-ter +34.06 Da, K +34.06 Da	39.5	56.0	3	2077.27	0.33	0.05	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
LNVDGPRAAR	TQLSQLSTR	N-ter +28.03 Da	34.6	58.1	2	1060.65	0.11	0.00	KLC3_MOUSE		Kinesin light chain 3;		0.25 - 0.75
DEESKPASSN	TQVEGDEEAALLER	N-ter +28.03 Da	64.0	26.8	2	1586.82	1.71	0.14	Q8VCQ8_MOUSE	E9Q0M9_MOUSE			0.85 - 1.00
TVCQPTCYQR	TSCISTPAQVTCNR	N-ter +28.03 Da, C +57.02 Da	36.8	67.5	3	1621.87	6.07	0.37	E9Q2E9_MOUSE				0.85 - 1.00
M	TSDQDAKVVAEPQAQR	N-ter +28.03 Da, K +28.03 Da	29.3	92.0	3	1798.09	-0.25	0.04	LAR4B_MOUSE		La-related protein 4B;	La ribonucleoprotein domain family member 4B;La ribonucleoprotein domain family member 5;La-related protein 5;	0.25 - 0.75
AATTTATTTT	TSGGHPLEFLR	N-ter +28.03 Da	17.8	68.3	3	1240.74	0.01	0.00	RD23B_MOUSE	Q3TJ52_MOUSE	UV excision repair protein RAD23 homolog B;	XP-C repair-complementing complex 58 kDa protein;	0.25 - 0.75
LIIGDRQTGK	TSIAIDTIINQKR	N-ter +34.06 Da, K +34.06 Da	26.4	51.5	3	1540.04	0.65	0.05	ATPA_MOUSE	D3Z6F5_MOUSE	ATP synthase subunit alpha, mitochondrial;		0.25 - 0.75
VGLTSLRAVS	TSSMGTLPKQVKIVEVGPR	N-ter +28.03 Da, K +28.03 Da	24.1	87.7	4	2110.40	-0.15	0.02	HMGCL_MOUSE		Hydroxymethylglutaryl-CoA lyase, mitochondrial;	3-hydroxy-3-methylglutarate-CoA lyase;	0.25 - 0.75
LEAWYRHGRT	TSSYSALSEPSR	N-ter +28.03 Da	43.6	54.9	2	1311.70	-0.25	0.03	MECR_MOUSE	A2A845_MOUSE	Trans-2-enoyl-CoA reductase, mitochondrial;		0.25 - 0.75
RTVHTTRVCL	TTFNVQDGPDFQDR	N-ter +28.03 Da	37.6	37.5	3	1666.82	0.99	0.03	THIOM_MOUSE	Q3TUS3_MOUSE	Thioredoxin, mitochondrial;	Thioredoxin-2;	0.75 - 0.85
FKLPKARKTG	TTIAGVVYKDGIVLGADTR	N-ter +34.06 Da, K +34.06 Da	32.4	70.5	3	2016.33	0.64	0.03	PSB7_MOUSE		Proteasome subunit beta type-7;	Macropain chain Z;Multicatalytic endopeptidase complex chain Z;Proteasome subunit Z;	0.25 - 0.75
GGGDVAFVKH	TTIFEVLPEKADR	N-ter +28.03 Da, K +28.03 Da	45.2	67.3	3	1573.98	1.07	0.17	TRFE_MOUSE	D3YYR8_MOUSE	Serotransferrin;	Beta-1 metal-binding globulin;Siderophilin;	0.75 - 0.85
AQAVTAYIIK	TTLESTPESASAR	N-ter +28.03 Da	38.9	46.9	2	1376.74	-0.12	0.01	PPR3A_MOUSE		Protein phosphatase 1 regulatory subunit 3A;	Protein phosphatase 1 glycogen-associated regulatory subunit;Protein phosphatase type-1 glycogen targeting subunit;	0.25 - 0.75
VPLAGTNGET	TTQGLDGLSER	N-ter +34.06 Da	27.1	55.4	2	1209.71	0.16	0.01	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
AAATTTATTT	TTSGGHPLEFLR	N-ter +28.03 Da	29.5	74.1	3	1341.80	0.06	0.00	RD23B_MOUSE	Q3TJ52_MOUSE	UV excision repair protein RAD23 homolog B;	XP-C repair-complementing complex 58 kDa protein;	0.25 - 0.75
VVPLAGTNGE	TTTQGLDGLSER	N-ter +34.06 Da	41.0	46.2	2	1310.75	0.20	0.01	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
QRPRLQLKPR	TVATPLNQVANPNSAIFGGAR	N-ter +34.06 Da	52.0	49.9	3	2131.27	0.74	0.05	IF4H_MOUSE	Q80U88_MOUSE	Eukaryotic translation initiation factor 4H;	Williams-Beuren syndrome chromosomal region 1 protein homolog;	0.25 - 0.75
EKAKREVCSW	TVEGDVNTDPWAGYR	N-ter +28.03 Da	39.1	49.9	3	1706.88	0.29	0.04	AMPM1_MOUSE		Methionine aminopeptidase 1;	Peptidase M 1;	0.25 - 0.75
LLRGENLVSM	TVEGPPPKDTGIAR	N-ter +28.03 Da, K +28.03 Da	26.9	113.6	3	1492.99	2.75	0.62	RSMB_MOUSE	RSMN_MOUSE	Small nuclear ribonucleoprotein-associated protein B;	Sm protein B;	0.85 - 1.00
GCVAGDEESY	TVFKDLFDPIIQDR	N-ter +28.03 Da, K +28.03 Da	48.3	36.7	3	1762.03	-0.17	0.04	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75

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	Quantile
QNADCPKNSG	TVGAVALDCR	N-ter +34.06 Da, C +57.02 Da	36.8	54.3	2	1094.66	-2.06	0.17	ASGL1_MOUSE		L-asparaginase;	Asparaginase-like protein 1;L-asparagine amidohydrolase;	0.00 - 0.15
VDNPGHPFIM	TVGCVAGDEESYTVFKDLFDPIIQDR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	57.3	91.5	4	3029.75	-3.32	0.33	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
M	TVHNLYLFDR	N-ter +34.06 Da	33.3	57.3	3	1310.80	-0.84	0.08	TPPC1_MOUSE	B1ASW5_MOUSE	Trafficking protein particle complex subunit 1;		0.15 - 0.25
KDVVDYIIFG	TVIQEVKTSNVAR	N-ter +34.06 Da, K +34.06 Da	30.3	93.9	3	1512.07	0.56	0.06	ECHB_MOUSE	D3YXU1_MOUSE	Trifunctional enzyme subunit beta, mitochondrial;	TP-beta;	0.25 - 0.75
GNNITVKTES	TVKTTVFSCNLGEKFDETTADGR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	47.0	75.9	4	2659.52	1.65	0.23	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;	0.85 - 1.00
TSLPFLLEIL	TVLPEEVHSR	N-ter +34.06 Da	30.7	69.6	3	1199.76	-0.64	0.03	TNPO3_MOUSE		Transportin-3;		0.25 - 0.75
VDIRKDLYAN	TVLSGGTTMYPGIADR	N-ter +34.06 Da	40.1	38.7	3	1671.94	0.07	0.01	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.25 - 0.75
VVQVPSAYQK	TVPIEAVTSKTSNIR	N-ter +28.03 Da, K +28.03 Da	24.2	51.0	3	1671.04	0.90	0.03	SRC8_MOUSE	Q921L6_MOUSE	Src substrate cortactin;		0.75 - 0.85
ASLPPDPPPL	TVPQTHNAR	N-ter +34.06 Da	11.3	22.4	2	1056.61	-1.12	0.02	Q9QUI1_MOUSE	Q7TMI7_MOUSE			0.15 - 0.25
RQRPEPQQVG	TVSLHLGVTPSVLR	N-ter +34.06 Da	33.7	70.4	3	1512.03	-0.45	0.02	TPP1_MOUSE		Tripeptidyl-peptidase 1;	Lysosomal pepstatin-insensitive protease;Tripeptidyl aminopeptidase;Tripeptidyl-peptidase I;	0.25 - 0.75
YSFPVVIKNK	TWKFVEGLPINDFSR	N-ter +28.03 Da, K +28.03 Da	32.2	90.6	3	1864.16	0.82	0.07	MDHC_MOUSE		Malate dehydrogenase, cytoplasmic;	Cytosolic malate dehydrogenase;	0.25 - 0.75
SPGMIKDLGA	TWVVLGHSER	N-ter +34.06 Da	30.0	58.0	3	1216.75	-0.69	0.01	TPIS_MOUSE	E0CXH5_MOUSE	Triosephosphate isomerase;	Triose-phosphate isomerase;	0.25 - 0.75
NEETIKKRLE	TYYNATEPVISFYDKR	N-ter +34.06 Da, K +34.06 Da	34.4	76.4	3	2034.23	-1.22	0.14	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.15 - 0.25
TPKGVRGHST	VAAASPSHEAKGGLVISPEGLSPAVR	N-ter +28.03 Da, K +28.03 Da	21.0	55.9	4	2555.55	2.67	0.13	ACD10_MOUSE	D3Z7X0_MOUSE	Acyl-CoA dehydrogenase family member 10;		0.85 - 1.00
VSGRQQLVEL	VAEQADLEQAFSPSDPDCVDR	N-ter +28.03 Da, C +57.02 Da	42.6	74.7	3	2376.23	-0.25	0.05	API5_MOUSE		Apoptosis inhibitor 5;	AAC-11;	0.25 - 0.75
SEAVVSSVNT	VANKTVEEAENIVVTTGVVR	N-ter +28.03 Da, K +28.03 Da	34.1	99.5	4	2183.43	-0.58	0.05	SYUG_MOUSE		Gamma-synuclein;	Persyn;	0.25 - 0.75
PLPVIPHQKV	VANSPANADYQER	N-ter +34.06 Da	35.9	64.4	3	1467.81	-0.20	0.02	E9PYJ9_MOUSE				0.25 - 0.75
TSQLVACTKV	VAPTISSPVCQEQLVEAGR	N-ter +28.03 Da, C +57.02 Da	42.1	57.1	3	2068.18	-0.54	0.04	TLN1_MOUSE	F8WGT0_MOUSE	Talin-1;		0.25 - 0.75
MADEIAKAQ	VAQPGGDTIFGKIIR	N-ter +34.06 Da, K +34.06 Da	26.4	51.6	3	1639.09	-0.38	0.02	HINT1_MOUSE	B0R1E3_MOUSE	Histidine triad nucleotide-binding protein 1;	Adenosine 5'-monophosphoramidase;Protein kinase C inhibitor 1;Protein kinase C-interacting protein 1;	0.25 - 0.75
VGPEPTTDCF	VAVMHGETEGTVPGNALVVDPEKPFR	N-ter +28.03 Da, K +28.03 Da	43.4	51.9	4	2804.60	1.40	0.07	EHD2_MOUSE		EH domain-containing protein 2;		0.75 - 0.85
SPDSLFTAKF	VAYDEEEEDYGPAGPNSYSGSAGTAVGAYDAPR	N-ter +28.03 Da	49.4	85.7	4	3392.75	-2.84	0.41	AFAD_MOUSE	F7C3I9_MOUSE	Afadin;	Protein Af-6;	0.00 - 0.15
GGRGAGDSGC	VDAYALCDALGRPAVGVGGGEWR	N-ter +28.03 Da, C +57.02 Da	17.3	112.5	4	2416.47	1.74	0.21	RAIN_MOUSE		Ras-interacting protein 1;		0.85 - 1.00
FRPKVKREVK	VDCSEYLALSKR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	18.0	49.8	3	1507.91	0.33	0.02	Q8BM18_MOUSE	Q148R4_MOUSE			0.25 - 0.75
LTIQLIQNHF	VDEYDPTIEDSYR	N-ter +28.03 Da	32.0	70.9	3	1628.84	0.60	0.09	RASH_MOUSE	RASK_MOUSE	GTPase HRas;	H-Ras-1;Transforming protein p21;c-H-ras;p21ras;	0.25 - 0.75
AGKHVPRAVF	VDLEPTVIDEVR	N-ter +34.06 Da	48.3	46.1	2	1417.85	1.55	0.15	TBA1A_MOUSE	TBA1B_MOUSE	Tubulin alpha-1A chain;	Alpha-tubulin 1;Alpha-tubulin isotype M-alpha-1;Tubulin alpha-1 chain;	0.85 - 1.00
LASLPVKDLA	VDSASPVYQAVIKTQSKPEDEADEWAR	N-ter +34.06 Da, K +34.06 Da	24.6	81.7	4	3120.90	-1.94	0.22	LDB3_MOUSE	E9PYJ9_MOUSE	LIM domain-binding protein 3;	Protein cypher;Protein oracle;Z-band alternatively spliced PDZ-motif protein;	0.00 - 0.15
LRLQKRGTGG	VDTAAVGAVFDISNADR	N-ter +34.06 Da	40.0	68.3	3	1754.03	0.31	0.02	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
EKLGQGGVQK	VDVPAADLSDQVPDTDSETR	N-ter +28.03 Da	50.7	63.5	3	2157.14	-0.30	0.06	CO3_MOUSE		Complement C3;	HSE-MSF;	0.25 - 0.75
LNLKQKGYFF	VEGELYCETHAR	N-ter +28.03 Da, C +57.02 Da	42.0	87.9	3	1490.81	0.45	0.08	PDLI3_MOUSE		PDZ and LIM domain protein 3;	Actinin-associated LIM protein;Alpha-actinin-2-associated LIM protein;	0.25 - 0.75
LIKEKLILPY	VELDLHSYDLGIENR	N-ter +28.03 Da	39.6	84.9	3	1800.06	0.30	0.02	IDHC_MOUSE	F8WIY0_MOUSE	Isocitrate dehydrogenase [NADP] cytoplasmic;	Cytosolic NADP-isocitrate dehydrogenase;IDP;NADP(+)-specific ICDH;Oxalosuccinate decarboxylase;	0.25 - 0.75
AAAAAAAVAV	VESMVTATEVAPPPPPVEVPIR	N-ter +28.03 Da	42.1	80.8	4	2342.45	1.95	0.14	CHD4_MOUSE	E9QAS5_MOUSE	Chromodomain-helicase-DNA-binding protein 4;		0.85 - 1.00
EEVANPLLTN	VEVEYPENAILDLTR	N-ter +28.03 Da	38.9	69.6	3	1788.06	0.70	0.06	ITIH3_MOUSE	E9PVS1_MOUSE	Inter-alpha-trypsin inhibitor heavy chain H3;		0.25 - 0.75
EVEVLKATEM	VEVGPEDDEVGAER	N-ter +28.03 Da	57.9	45.4	2	1527.78	0.86	0.12	PTRF_MOUSE		Polymerase I and transcript release factor;	Cav-p60;Cavin-1;	0.25 - 0.75
CVAGDEESYT	VFKDLFDPIIQDR	N-ter +34.06 Da, K +34.06 Da	32.0	79.1	3	1673.12	-0.49	0.03	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
AVQGGAAAPM	VGAVQPVLGMPPMPQAPR	N-ter +28.03 Da	31.8	60.2	3	1872.12	2.93	0.20	F8VQ88_MOUSE				0.85 - 1.00
AVQGGAAAPV	VGAVQPVPGMPPMPQAPR	N-ter +34.06 Da	49.3	59.5	3	1862.12	1.36	0.10	SNRPA_MOUSE	D3Z0S6_MOUSE	U1 small nuclear ribonucleoprotein A;		0.75 - 0.85
YAKRAFVHWY	VGEGMEEGEFSEAR	N-ter +34.06 Da	47.0	41.2	2	1559.76	0.42	0.06	TBA1A_MOUSE	TBA1B_MOUSE	Tubulin alpha-1A chain;	Alpha-tubulin 1;Alpha-tubulin isotype M-alpha-1;Tubulin alpha-1 chain;	0.25 - 0.75
ASGETLHSPK	VGQPGAAGPVSPMCPGR	N-ter +34.06 Da, C +57.02 Da	53.8	71.0	3	1670.96	-0.45	0.03	FETUA_MOUSE		Alpha-2-HS-glycoprotein;	Countertrypin;Fetuin-A;	0.25 - 0.75
M	VGVKPVGSDPDFQPELSGAGSR	N-ter +28.03 Da, K +28.03 Da	35.2	76.2	3	2254.33	-1.60	0.29	TXNL1_MOUSE		Thioredoxin-like protein 1;	32 kDa thioredoxin-related protein;	0.00 - 0.15
AYLARHVGLR	VGVPTETGALTLNR	N-ter +28.03 Da	34.3	29.4	3	1454.85	0.74	0.05	THIM_MOUSE		3-ketoacyl-CoA thiolase, mitochondrial;	Acetyl-CoA acyltransferase;Beta-ketothiolase;Mitochondrial 3-oxoacyl-CoA thiolase;	0.25 - 0.75
TKFENAFLSH	VISQHQSLLGNIR	N-ter +28.03 Da	31.0	47.8	3	1491.92	0.43	0.02	ATPA_MOUSE	D3Z6F5_MOUSE	ATP synthase subunit alpha, mitochondrial;		0.25 - 0.75
DVDLHLKGPN	VKGEYDVTVPR	N-ter +28.03 Da, K +28.03 Da	38.7	58.8	3	1317.81	-0.45	0.04	E9Q616_MOUSE	F7BRM2_MOUSE			0.25 - 0.75
M	VKLTAELIEQAAQYTNAVR	N-ter +28.03 Da, K +28.03 Da	43.9	95.8	4	2173.42	0.49	0.08	RU2A_MOUSE				0.25 - 0.75
E	VKLVESGGGLVQPGGSLR	N-ter +28.03 Da, K +28.03 Da	36.3	62.2	3	1937.22	0.50	0.06	HVM17_MOUSE	HVM18_MOUSE	Ig heavy chain V region MOPC 47A;		0.25 - 0.75
FFVKNMISNQ	VKNLGFGGGSEEKKEEGGTSDPAAAKGMTR	N-ter +34.06 Da, K +34.06 Da	19.8	52.1	4	3177.95	-5.64	0.00	CPLX4_MOUSE		Complexin-4;	Complexin IV;	0.00 - 0.15
N	VLASEPEIPKGIR	N-ter +34.06 Da, K +34.06 Da	20.3	62.5	3	1476.03	0.88	0.16	KAD2_MOUSE	F7BP55_MOUSE	Adenylate kinase 2, mitochondrial;	ATP-AMP transphosphorylase 2;	0.75 - 0.85
FSPYEHGEVF	VLDDGGEVDLDLGNYER	N-ter +28.03 Da	46.8	61.0	3	1906.01	0.39	0.02	PYRG1_MOUSE		CTP synthase 1;	CTP synthetase 1;UTP--ammonia ligase 1;	0.25 - 0.75

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	Quantile
LYASGRTTGI	VLDSGDGVTHNVPIYEGYALPHAIMR	N-ter +28.03 Da	52.8	99.8	4	2851.72	-2.84	0.20	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.00 - 0.15
M	VLESTMVCVDNSEYMR	N-ter +34.06 Da, C +57.02 Da	48.3	52.1	3	1966.01	1.80	0.22	PSMD4_MOUSE		26S proteasome non-ATPase regulatory subunit 4;	26S proteasome regulatory subunit RPN10;26S proteasome regulatory subunit S5A;Multiubiquitin chain-binding protein;	0.85 - 1.00
WAAEANLLVL	VLPGSEGSEEPLTPALGEAAR	N-ter +28.03 Da	44.4	67.8	3	2107.22	4.03	0.38	IRGQ_MOUSE		Immunity-related GTPase family Q protein;		0.85 - 1.00
EPPKQSTSFL	VLQEILESDGKGDPNKPSGFR	N-ter +28.03 Da, K +28.03 Da	21.7	80.8	4	2369.45	0.20	0.02	PDLI1_MOUSE		PDZ and LIM domain protein 1;	C-terminal LIM domain protein 1;Elfin;LIM domain protein CLP-36;	0.25 - 0.75
HRMTTLFCIN	VLSEVCGQDITTKHMLPTVLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	42.6	85.4	4	2452.53	0.72	0.07	2AAA_MOUSE		Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform;	PP2A subunit A isoform PR65-alpha;PP2A subunit A isoform R1-alpha;	0.25 - 0.75
M	VLSNEPAASAAEEEVEDDALVR	N-ter +34.06 Da	66.9	68.2	3	2347.32	-1.89	0.21	TBCD_MOUSE		Tubulin-specific chaperone D;	Beta-tubulin cofactor D;Tubulin-folding cofactor D;	0.00 - 0.15
PFMWNEHLGY	VLTCPSNLGTGLR	N-ter +34.06 Da, C +57.02 Da	29.8	37.3	3	1420.84	0.40	0.04	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
LSKHNNHMAK	VLTPDLYNKLR	N-ter +34.06 Da, K +34.06 Da	30.3	77.0	3	1398.99	0.33	0.03	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
VTECVKQICL	VMLETLSQSPQGR	N-ter +28.03 Da	28.1	52.8	3	1472.84	0.86	0.06	PCBP1_MOUSE		Poly(rC)-binding protein 1;	Alpha-CP1;Heterogeneous nuclear ribonucleoprotein E1;	0.25 - 0.75
KKLRPDGSEV	VNAIQVPGPPRQLVEELQSRYR	N-ter +28.03 Da	24.8	69.1	4	2576.60	0.60	0.04	MIB2_MOUSE		E3 ubiquitin-protein ligase MIB2;	Dystrophin-like protein;Mind bomb homolog 2;Skeletrophin;	0.25 - 0.75
DQVIQFFIAL	VNDPQPEHPLR	N-ter +28.03 Da	20.9	91.9	3	1328.81	1.47	0.14	UB2L3_MOUSE		Ubiquitin-conjugating enzyme E2 L3;	UbcM4;Ubiquitin carrier protein L3;Ubiquitin-protein ligase L3;	0.85 - 1.00
M	VNPTVFFDITADDEPLGR	N-ter +28.03 Da	54.1	44.9	3	2033.10	0.99	0.17	PPIA_MOUSE	E9Q1E3_MOUSE	Peptidyl-prolyl cis-trans isomerase A;	Cyclophilin A;Cyclosporin A-binding protein;Rotamase A;SP18;	0.75 - 0.85
RASSSTINLM	VNTEPLFLTKTDICKLSR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	25.7	85.7	4	2236.53	-1.03	0.13	E9PWQ3_MOUSE	F6R0L1_MOUSE			0.15 - 0.25
NGKLTGMAFR	VPTPNVSVVDLTCR	N-ter +28.03 Da, C +57.02 Da	43.4	32.0	3	1583.88	1.45	0.10	G3PT_MOUSE	G3P_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase, testis-specific;	Spermatogenic cell-specific glyceraldehyde 3-phosphate dehydrogenase 2;Spermatogenic glyceraldehyde-3-phosphate dehydrogenase;	0.85 - 1.00
M	VQAWYMDESTADPR	N-ter +34.06 Da	31.7	58.5	3	1701.89	0.37	0.04	MTND_MOUSE		1,2-dihydroxy-3-keto-5-methylthiopentene dioxygenase;	Acireductone dioxygenase (Fe(2+)-requiring);Membrane-type 1 matrix metalloproteinase cytoplasmic tail-binding protein 1;	0.25 - 0.75
LSGTAGVQSQ	VQLQQSGAELVK	N-ter +28.03 Da, K +28.03 Da	44.8	27.9	3	1483.87	1.37	0.06	HVM00_MOUSE		Ig heavy chain V region;	Anti-arsonate antibody;	0.75 - 0.85
ERTISKIKGL	VRAPQVYILPPPAEQLSR	N-ter +34.06 Da	40.6	68.6	3	2067.35	-0.15	0.01	IGG2B_MOUSE		Ig gamma-2B chain C region;		0.25 - 0.75
FYADHPFIFL	VRDNQSGSLLFIGR	N-ter +34.06 Da	53.6	58.3	3	1594.99	0.14	0.01	SERPH_MOUSE		Serpin H1;	47 kDa heat shock protein;Collagen-binding protein;Serine protease inhibitor J6;	0.25 - 0.75
RSIIRNVKGP	VREGDVLTLLESER	N-ter +28.03 Da	47.4	92.8	3	1643.04	-0.32	0.04	RS28_MOUSE		40S ribosomal protein S28;		0.25 - 0.75
TSVVRPFAKL	VRPPVQVYGIEGR	N-ter +28.03 Da	45.6	43.0	3	1496.91	-0.62	0.04	ATPO_MOUSE	D3Z4J0_MOUSE	ATP synthase subunit O, mitochondrial;	Oligomycin sensitivity conferral protein;	0.25 - 0.75
VGENKKASAK	VSDAISTQYPVVDHEFDAVVVGAGGAGLR	N-ter +34.06 Da	39.5	83.6	4	2962.77	-4.32	0.86	DHSA_MOUSE		Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial;	Flavoprotein subunit of complex II;	0.00 - 0.15
SEGNELLVQF	VSDLSVTADGFSASYR	N-ter +34.06 Da	40.1	65.6	3	1707.96	0.12	0.01	PCOC1_MOUSE	D3YUE2_MOUSE	Procollagen C-endopeptidase enhancer 1;	P14;Procollagen COOH-terminal proteinase enhancer 1;Type 1 procollagen C-proteinase enhancer protein;Type I procollagen COOH-terminal proteinase enhancer;	0.25 - 0.75
DNGMVLGEQE	VSDNELQELSTQGSR	N-ter +34.06 Da	43.8	61.6	3	1695.95	0.86	0.08	CLUS_MOUSE	E9Q9B8_MOUSE	Clusterin;	Apolipoprotein J;Clustrin;Sulfated glycoprotein 2;	0.25 - 0.75
GMKVLQTRGF	VSDSSDSMDTGAGSIR	N-ter +28.03 Da	65.3	50.7	2	1611.79	1.17	0.18	ATIF1_MOUSE	Q9D879_MOUSE	ATPase inhibitor, mitochondrial;	Inhibitor of F(1)F(o)-ATPase;	0.75 - 0.85
GRRGQFGARG	VSEGSAAMAAGESMAQR	N-ter +28.03 Da	53.2	63.0	3	1679.87	0.07	0.01	ORN_MOUSE		Oligoribonuclease, mitochondrial;	RNA exonuclease 2 homolog;Small fragment nuclease;	0.25 - 0.75
IESTECRKTR	VSGEHMDLTTCPLAAGGQQEKLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	41.4	83.0	4	2553.48	0.93	0.11	Q9D1B1_MOUSE				0.75 - 0.85
VWAAVPGKTF	VSITPAEVGVLVGKDR	N-ter +34.06 Da, K +34.06 Da	30.1	51.2	3	1707.14	0.37	0.03	PROF1_MOUSE	Q5SX49_MOUSE	Profilin-1;	Profilin I;	0.25 - 0.75
ALSVRNLSPY	VSNELLEEAFSQFGPIER	N-ter +28.03 Da	48.0	73.7	3	2092.20	0.29	0.04	SFPQ_MOUSE		Splicing factor, proline- and glutamine-rich;	DNA-binding p52/p100 complex, 100 kDa subunit;Polypyrimidine tract-binding protein-associated-splicing factor;	0.25 - 0.75
GQAAPVLGLA	VSSELQIQQSFVPDECPR	N-ter +34.06 Da, C +57.02 Da	42.0	32.2	3	2152.14	-0.58	0.02	FKBP9_MOUSE		Peptidyl-prolyl cis-trans isomerase FKBP9;	63 kDa FK506-binding protein;FK506-binding protein 9;FKBP65RS;Rotamase;	0.25 - 0.75
RDDGLADLLF	VSSGPTNASAFTER	N-ter +28.03 Da	36.6	51.1	2	1450.78	-0.15	0.02	MAP4_MOUSE	E9QPW8_MOUSE	Microtubule-associated protein 4;		0.25 - 0.75
MKAATPVV	VTAAAPAMEPGPSVSPGPSR	N-ter +28.03 Da	25.0	66.8	3	1906.09	0.24	0.01	F6U6G6_MOUSE				0.25 - 0.75
SASNLIYPIF	VTDVPDDVQPIASLPGVAR	N-ter +28.03 Da	44.9	74.4	3	1976.20	-0.14	0.01	HEM2_MOUSE		Delta-aminolevulinic acid dehydratase;	Porphobilinogen synthase;	0.25 - 0.75
M	VTEQEIEAIGKTLVDPKQPLQAR	N-ter +28.03 Da, K +28.03 Da	19.7	87.2	4	2646.73	-1.40	0.18	DOHH_MOUSE	D3Z7J7_MOUSE	Deoxyhypusine hydroxylase;	Deoxyhypusine dioxygenase;Deoxyhypusine monooxygenase;	0.15 - 0.25
ARQSRRSTQG	VTLTDLQEAEKTIGR	N-ter +34.06 Da, K +34.06 Da	19.8	56.3	3	1741.12	-0.69	0.07	MYPT1_MOUSE		Protein phosphatase 1 regulatory subunit 12A;	Myosin phosphatase-targeting subunit 1;	0.25 - 0.75
SPLPVIPHQK	VVANSPANADYQER	N-ter +34.06 Da	49.6	79.2	3	1566.91	-0.38	0.04	E9PYJ9_MOUSE				0.25 - 0.75
STSQLVACTK	VVAPTISSPVCQEQLVEAGR	N-ter +34.06 Da, C +57.02 Da	47.6	53.5	3	2173.28	0.31	0.04	TLN1_MOUSE	F8WGT0_MOUSE	Talin-1;		0.25 - 0.75
IINVKQFAKF	VVDLSDQVAPTDIEEGMR	N-ter +28.03 Da	54.9	85.4	3	2001.14	1.88	0.34	PRS7_MOUSE	Q8BVQ9_MOUSE	26S protease regulatory subunit 7;	26S proteasome AAA-ATPase subunit RPT1;Proteasome 26S subunit ATPase 2;Protein MSS1;	0.85 - 1.00
AKRQSRMEKY	VVDSDTVQAHTVR	N-ter +34.06 Da	46.5	91.3	3	1459.92	0.15	0.02	SYNP2_MOUSE	D3YVV9_MOUSE	Synaptopodin-2;	Myopodin;	0.25 - 0.75

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	Quantile
SRMAKPEEVL	VVENDQGEVVR	N-ter +28.03 Da	20.3	40.9	2	1270.70	0.99	0.08	XPO1_MOUSE		Exportin-1;	Chromosome region maintenance 1 protein homolog;	0.75 - 0.85
MFWIPASSSD	VVMTQTPLSLPVSLGDQASISCR	N-ter +34.06 Da, C +57.02 Da	58.9	49.7	3	2607.48	-1.56	0.32	KV2A7_MOUSE		Ig kappa chain V-II region 26-10;		0.00 - 0.15
IWHNDNKSFL	VWVNEEDHLR	N-ter +34.06 Da	20.7	71.2	3	1329.78	-1.18	0.03	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.15 - 0.25
KIKGLVRAPQ	VYILPPPAEQLSR	N-ter +34.06 Da	36.4	50.7	3	1515.96	-0.69	0.05	IGG2B_MOUSE		Ig gamma-2B chain C region;		0.25 - 0.75
SPDDDLGSSN	WEAADLGNEER	N-ter +28.03 Da	32.5	57.1	2	1316.68	4.94	0.75	SMAP_MOUSE	D6RI64_MOUSE	Small acidic protein;	Sid 2057;	0.85 - 1.00
DAEKAAVSCL	WGKVNSDEVGGEALGR	N-ter +34.06 Da, K +34.06 Da	22.5	58.3	3	1741.04	-3.84	0.00	HBB1_MOUSE		Hemoglobin subunit beta-1;	Beta-1-globin;Hemoglobin beta-1 chain;Hemoglobin beta-major chain;	0.00 - 0.15
LAHFDPRVTM	WVFEEDIGGR	N-ter +34.06 Da	32.3	27.8	2	1240.66	2.66	0.24	GPDA_MOUSE	E0CXN5_MOUSE	Glycerol-3-phosphate dehydrogenase [NAD+], cytoplasmic;		0.85 - 1.00
LNDNFVKLIS	WYDNEYGYSNR	N-ter +28.03 Da	26.3	77.5	3	1493.74	0.32	0.04	G3P_MOUSE	G3PT_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.25 - 0.75
LKSGENFKLL	YDLADQLHAAVGASR	N-ter +28.03 Da	41.8	81.2	3	1613.95	0.47	0.06	ETFA_MOUSE		Electron transfer flavoprotein subunit alpha, mitochondrial;		0.25 - 0.75
LREDPAYLHY	YDPAGGEDPLGAVHLR	N-ter +28.03 Da	61.6	68.2	3	1693.96	0.60	0.06	PLEK_MOUSE	Q8CAG6_MOUSE	Pleckstrin;		0.25 - 0.75
VNIGGAGSYI	YEKPQTEAPQVTGPIEVPVVR	N-ter +34.06 Da, K +34.06 Da	47.9	90.6	4	2404.58	4.92	1.00	CRIP2_MOUSE		Cysteine-rich protein 2;	Heart LIM protein;	0.85 - 1.00
AASSSSLEKS	YELPDGQVITIGNER	N-ter +34.06 Da	36.6	60.2	3	1737.02	-0.40	0.03	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.25 - 0.75
TWSPSEWQMA	YEPQGGSGYDYSYAGGR	N-ter +28.03 Da	39.3	69.0	3	1853.91	-0.06	0.01	HNRPK_MOUSE	E9Q8D6_MOUSE	Heterogeneous nuclear ribonucleoprotein K;		0.25 - 0.75
LGLAAADPAI	YFKEQFLDGDAWTNR	N-ter +34.06 Da, K +34.06 Da	34.5	66.4	3	1957.13	1.28	0.16	CALR_MOUSE		Calreticulin;	CRP55;Calregulin;Endoplasmic reticulum resident protein 60;HACBP;	0.75 - 0.85
KLTLTELIDF	YGIDDNLLHYNR	N-ter +28.03 Da	29.1	63.8	3	1519.84	-0.81	0.11	SFR1_MOUSE		Swi5-dependent recombination DNA repair protein 1 homolog;	Meiosis protein 5 homolog;	0.15 - 0.25
LGGNFASQMS	YGYDEKSAGVSVPGPMGPSGPR	N-ter +34.06 Da, K +34.06 Da	42.5	45.6	3	2275.26	-5.64	0.00	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
GTQCEKIVQK	YGYTHLSTGDLLR	N-ter +34.06 Da	25.7	49.6	3	1528.89	-0.30	0.02	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.25 - 0.75
ENQKNFSSVL	YKEDVSPGTAIGKTPEMLR	N-ter +28.03 Da, K +28.03 Da	20.2	87.2	4	2175.35	0.81	0.04	A2AQB2_MOUSE	A2AQA9_MOUSE			0.25 - 0.75
QQQMTSSYGG	YKEPAAPVSIQR	N-ter +28.03 Da, K +28.03 Da	30.3	84.3	3	1413.92	1.47	0.14	LASP1_MOUSE	A2A6H0_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.85 - 1.00
FGKVLMASTS	YLPSQVTEMFNQGR	N-ter +28.03 Da	31.6	53.7	3	1696.92	1.51	0.19	WIPI2_MOUSE	D3YWK1_MOUSE	WD repeat domain phosphoinositide-interacting protein 2;		0.85 - 1.00
LGKLPSLAFL	YMEKNQLEEVPSALPR	N-ter +28.03 Da, K +28.03 Da	40.9	79.6	3	1959.17	-0.43	0.03	PRELP_MOUSE		Prolargin;	Proline-arginine-rich end leucine-rich repeat protein;	0.25 - 0.75
VGASDGYLYM	YNLDPQEGGECALMR	N-ter +34.06 Da, C +57.02 Da	37.0	76.6	3	1785.96	1.48	0.20	WIPI2_MOUSE	D3YWK1_MOUSE	WD repeat domain phosphoinositide-interacting protein 2;		0.85 - 1.00
PLGSTIPMAY	YPVGPIYPPGSAVLVEGGYDAGAR	N-ter +28.03 Da	38.9	67.4	3	2432.40	1.12	0.13	DAZP2_MOUSE		DAZ-associated protein 2;	Deleted in azoospermia-associated protein 2;Proline-rich protein expressed in brain;	0.75 - 0.85
SKSLSPGLLG	YQQPSLLAAPLGLADAHR	N-ter +28.03 Da	32.6	76.5	3	1948.20	1.21	0.06	NFAC2_MOUSE	B5B2Q6_MOUSE	Nuclear factor of activated T-cells, cytoplasmic 2;	NFAT pre-existing subunit;T-cell transcription factor NFAT1;	0.75 - 0.85
PGLTGNFAAQ	YSDKGVSSGPGPMGLMGPR	N-ter +28.03 Da, K +28.03 Da	60.4	77.4	3	1948.11	-2.00	0.08	CO1A2_MOUSE	E0CXI2_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.00 - 0.15
AAMKANTMSN	YSLLPASLLDHR	N-ter +28.03 Da	57.0	90.9	3	1411.91	2.03	0.13	ST2B1_MOUSE	E9QKC1_MOUSE	Sulfotransferase family cytosolic 2B member 1;	Alcohol sulfotransferase;Hydroxysteroid sulfotransferase 2;	0.85 - 1.00
CTFFLAVSGL	YSSSDDVIELTPSNFNR	N-ter +34.06 Da	38.8	59.3	3	1977.07	0.40	0.04	PDIA6_MOUSE	Q3TML0_MOUSE	Protein disulfide-isomerase A6;	Thioredoxin domain-containing protein 7;	0.25 - 0.75
SASYNSPIGL	YSTSNIQDALHGQLR	N-ter +34.06 Da	31.0	58.7	3	1736.01	0.16	0.01	PDLI3_MOUSE		PDZ and LIM domain protein 3;	Actinin-associated LIM protein;Alpha-actinin-2-associated LIM protein;	0.25 - 0.75
QQIIITPIKA	YSVLQATPTAKDEGR	N-ter +28.03 Da, K +28.03 Da	37.6	97.2	3	1691.05	-1.15	0.10	SMAG2_MOUSE		Protein Smaug homolog 2;	Sterile alpha motif domain-containing protein 4B;	0.15 - 0.25
GAGNNWAKGH	YTEGAELVDSVLDVVR	N-ter +28.03 Da	53.2	68.5	3	1792.05	0.00	0.00	TBB2A_MOUSE	TBB2B_MOUSE	Tubulin beta-2A chain;		0.25 - 0.75
RSESIFYEML	YTPEPNGMASEEVTEKER	N-ter +28.03 Da, K +28.03 Da	26.9	91.4	3	2122.18	-1.94	0.37	E9Q3A1_MOUSE	E9Q6H8_MOUSE			0.00 - 0.15
QKIGQPTLLL	YVDAGAETMTQR	N-ter +34.06 Da	38.4	85.8	3	1374.78	0.79	0.08	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.25 - 0.75
MYAKRAFVHW	YVGEGMEEGEFSEAR	N-ter +28.03 Da	17.8	29.7	2	1716.78	2.97	0.40	TBA1A_MOUSE	TBA1B_MOUSE	Tubulin alpha-1A chain;	Alpha-tubulin 1;Alpha-tubulin isotype M-alpha-1;Tubulin alpha-1 chain;	0.85 - 1.00
KAPEGEETEF	YVSPEDLEAQLQSDER	N-ter +34.06 Da	52.8	59.2	3	1912.04	1.22	0.12	DNJC5_MOUSE		DnaJ homolog subfamily C member 5;	Cysteine string protein;	0.75 - 0.85
SLWKFETSKY	YVTIIDAPGHR	N-ter +34.06 Da	36.7	59.6	3	1274.80	1.14	0.03	EF1A1_MOUSE	D3Z3I8_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.75 - 0.85
NRPAFFAERL	YYSMKGAGTDDSTLVR	N-ter +28.03 Da, K +28.03 Da	17.9	110.9	3	1819.08	-2.47	0.28	ANXA7_MOUSE	F8WGC2_MOUSE	Annexin A7;	Annexin VII;Annexin-7;Synexin;	0.00 - 0.15