Table S10: Dimethylated (naturally unmodified) N-termini identified in the TAILS experiment comparing wild-type and *Ctsl*$^{-/-}$ skin (replicate 1). 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
CGTCGQPADK	AAGGAGAQVGGSISSGSSASSVTVTR	N-ter +28.03 Da	95.9	44.6	3	2249.23	0.18	0.05	LMNA_MOUSE		Prelamin-A/C;		0.25 - 0.75
YGVEKDKRDK	AALGYDYKGETEKHESQR	N-ter +28.03 Da, K +28.03 Da	18.4	63.3	4	2165.21	-0.89	0.28	HCLS1_MOUSE		Hematopoietic lineage cell-specific protein;	Hematopoietic cell-specific LYN substrate 1;LckBP1;	0.15 - 0.25
NAVGPVPTAN	AALPADPPASVVVGPVVVPR	N-ter +28.03 Da	55.9	41.2	3	1938.21	-0.22	0.03	FETUA_MOUSE		Alpha-2-HS-glycoprotein;	Countertrypin;Fetuin-A;	0.25 - 0.75
NTLHLDYVMA	AANLFAQTYGLTGSQDR	N-ter +28.03 Da	46.2	49.9	3	1840.00	-0.07	0.01	UBA1_MOUSE		Ubiquitin-like modifier-activating enzyme 1;	Ubiquitin-activating enzyme E1;Ubiquitin-activating enzyme E1 X;Ubiquitin-like modifier-activating enzyme 1 X;	0.25 - 0.75
CLGELICTLN	AANVPAGTEVVCAPPTAYIDFAR	N-ter +28.03 Da, C +57.02 Da	48.4	39.0	3	2417.30	0.93	0.17	TPIS_MOUSE		Triosephosphate isomerase;	Triose-phosphate isomerase;	0.25 - 0.75
LRAMRGIVNG	AAPELPVPTGGPMAGAR	N-ter +28.03 Da	37.5	47.7	3	1618.93	-0.29	0.02	VATB2_MOUSE		V-type proton ATPase subunit B, brain isoform;	Endomembrane proton pump 58 kDa subunit;Vacuolar proton pump subunit B 2;	0.25 - 0.75
EEKERALYAD	AAPGDKNLLLHYPDGR	N-ter +34.06 Da, K +34.06 Da	25.9	57.8	4	1804.13	-1.32	0.20	SRCA_MOUSE		Sarcalumenin;		0.15 - 0.25
LERKPAAGLS	AAPVPPAAAPLLDFSSDSVPPAPR	N-ter +28.03 Da	29.7	59.9	4	2370.40	-0.22	0.05	RTN4_MOUSE	Q8BHF5_MOUSE	Reticulon-4;	Neurite outgrowth inhibitor;	0.25 - 0.75
YALSSPLQLL	AAQASSSTPVVITR	N-ter +28.03 Da	29.3	46.7	3	1414.84	-0.11	0.01	FOXK1_MOUSE	E9Q4K6_MOUSE	Forkhead box protein K1;	Myocyte nuclear factor;	0.25 - 0.75
NSVQSGNLAL	AASAAAVDAGMAMAGQSPVLR	N-ter +28.03 Da	61.8	43.9	3	1972.07	0.20	0.04	PTBP1_MOUSE	Q922I7_MOUSE	Polypyrimidine tract-binding protein 1;	Heterogeneous nuclear ribonucleoprotein I;	0.25 - 0.75
ASASTSQSSR	AASIFGGAKPVDTAAR	N-ter +34.06 Da, K +34.06 Da	39.3	39.9	3	1599.01	1.37	0.38	IF4B_MOUSE	Q3TDD8_MOUSE	Eukaryotic translation initiation factor 4B;		0.75 - 0.85
QKRGTGGVDT	AATGSVFDISNLDR	N-ter +28.03 Da	35.9	48.1	3	1492.82	0.68	0.05	KCRU_MOUSE		Creatine kinase U-type, mitochondrial;	Acidic-type mitochondrial creatine kinase;Ubiquitous mitochondrial creatine kinase;	0.25 - 0.75
DLYTAKGLFR	AAVPSGASTGIYEALELR	N-ter +34.06 Da	51.9	47.3	3	1838.09	-0.49	0.08	ENOA_MOUSE	ENOB_MOUSE	Alpha-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 1;Non-neural enolase;	0.25 - 0.75
LTARDEARGR	AAVQQLQAEGLSPR	N-ter +28.03 Da	35.5	42.9	3	1494.88	0.31	0.02	Q8K354_MOUSE				0.25 - 0.75
LWLLPSLALA	AAVTEPADLEYTEVPR	N-ter +28.03 Da	59.4	48.9	3	1787.98	2.69	0.82	Q8BVL6_MOUSE				0.85 - 1.00
LSGEDKSNIK	AAWGKIGGHGAEYGAEALER	N-ter +34.06 Da, K +34.06 Da	44.8	56.7	4	2110.24	-2.74	0.18	HBA_MOUSE	Q91VB8_MOUSE	Hemoglobin subunit alpha;	Alpha-globin;Hemoglobin alpha chain;	0.00 - 0.15
SVTREDSGQY	AAYISNAVGAAYSSAR	N-ter +34.06 Da	37.7	46.0	3	1604.91	-4.64	1.16	OBSCN_MOUSE	E9QQ96_MOUSE	Obscurin;	Obscurin-RhoGEF;Obscurin-myosin light chain kinase;	0.00 - 0.15
GPGQLTLRVR	ACGLNFADLMGR	N-ter +28.03 Da, C +57.02 Da	49.0	43.6	2	1351.70	2.06	0.61	VAT1_MOUSE		Synaptic vesicle membrane protein VAT-1 homolog;		0.85 - 1.00
IQNLHSFDPF	ADASKGDDLLPAGTEDYIHIR	N-ter +28.03 Da, K +28.03 Da	73.9	64.1	4	2312.31	0.67	0.19	EIF1_MOUSE		Eukaryotic translation initiation factor 1;	Protein translation factor SUI1 homolog;	0.25 - 0.75
MSFSADQI	ADFKEAFLLFDR	N-ter +34.06 Da, K +34.06 Da	34.9	52.9	3	1538.96	-3.84	2.19	E9PWG4_MOUSE				0.00 - 0.15
LASSASAEFF	ADIALAPMEAAKVR	N-ter +28.03 Da, K +28.03 Da	36.7	47.2	3	1510.93	0.39	0.06	MPCP_MOUSE		Phosphate carrier protein, mitochondrial;	Phosphate transport protein;Solute carrier family 25 member 3;	0.25 - 0.75
DGETEEERIR	ADIVENQVMDTR	N-ter +28.03 Da	32.2	53.8	3	1417.76	-1.18	0.16	GSTM1_MOUSE	A2AE89_MOUSE	Glutathione S-transferase Mu 1;	GST 1-1;GST class-mu 1;Glutathione S-transferase GT8.7;pmGT10;	0.15 - 0.25
AGDEESYEVF	ADLFDPVIKLR	N-ter +28.03 Da, K +28.03 Da	30.0	51.6	3	1341.87	-2.56	0.60	KCRS_MOUSE		Creatine kinase S-type, mitochondrial;	Basic-type mitochondrial creatine kinase;Sarcomeric mitochondrial creatine kinase;	0.00 - 0.15
IWTTRHPVQG	ADLVQDLSISTCR	N-ter +34.06 Da, C +57.02 Da	38.6	48.2	3	1510.86	-0.81	0.14	LYVE1_MOUSE		Lymphatic vessel endothelial hyaluronic acid receptor 1;	Cell surface retention sequence-binding protein 1;Extracellular link domain-containing protein 1;	0.15 - 0.25
EKEKEPVQDY	ADVLNPLPECFYAVSR	N-ter +28.03 Da, C +57.02 Da	35.0	56.1	3	1878.04	0.98	0.23	STAP1_MOUSE	E9PYX8_MOUSE	Signal-transducing adaptor protein 1;	Stem cell adaptor protein 1;	0.75 - 0.85
VREKEAQPLE	AEAPGVDLGILPEGR	N-ter +28.03 Da	39.6	47.2	3	1520.89	0.15	0.01	NIBAN_MOUSE		Protein Niban;	Protein FAM129A;	0.25 - 0.75
RSTGVVNIPA	AECLDEYEDDEAGQKER	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	55.6	48.8	3	2112.00	0.30	0.10	PAWR_MOUSE		PRKC apoptosis WT1 regulator protein;	Prostate apoptosis response 4 protein;	0.25 - 0.75
SLQLVSWTLA	AEPVDVLEAWGVHR	N-ter +28.03 Da	61.7	49.8	3	1604.91	0.77	0.12	Q9JLI2_MOUSE				0.25 - 0.75
QLWYKARYTE	AERARGRPLGAVDKYRLR	N-ter +34.06 Da, K +34.06 Da	11.2	28.7	4	2151.38	-5.64	2.82	SIX4_MOUSE		Homeobox protein SIX4;	Sine oculis homeobox homolog 4;Skeletal muscle-specific ARE-binding protein AREC3;	0.00 - 0.15
QVQTVQISTI	AESEDSQESVDSVTDSQKR	N-ter +34.06 Da, K +34.06 Da	56.2	46.3	3	2164.14	-1.60	0.53	CREB1_MOUSE	Q62347_MOUSE	Cyclic AMP-responsive element-binding protein 1;		0.00 - 0.15
HHAFGQGRDM	AETFDQGAHHAFGQGGR	N-ter +28.03 Da	41.0	67.3	4	1812.95	-0.45	0.12	SBSN_MOUSE	E9QPB2_MOUSE	Suprabasin;		0.25 - 0.75
GAVISESTPI	AETIKASSNESLVANR	N-ter +28.03 Da, K +28.03 Da	37.3	47.4	3	1745.01	-0.84	0.16	LAP2B_MOUSE	Q3TNH0_MOUSE	Lamina-associated polypeptide 2, isoforms beta/delta/epsilon/gamma;	Thymopoietin isoforms beta/delta/epsilon/gamma;	0.15 - 0.25
ARSKPSPQLS	AETPVAALPEFPR	N-ter +28.03 Da	37.0	43.4	3	1424.83	-0.36	0.06	E9Q0S6_MOUSE				0.25 - 0.75
GVKVLAFLSL	AEVGQVAGPGPQR	N-ter +28.03 Da	32.9	40.3	3	1292.74	2.08	0.26	CAND2_MOUSE		Cullin-associated NEDD8-dissociated protein 2;	Cullin-associated and neddylation-dissociated protein 2;TBP-interacting protein of 120 kDa B;p120 CAND2;	0.85 - 1.00
GLDNVHKQRV	AEVLNDPESMEKR	N-ter +28.03 Da, K +28.03 Da	37.5	51.1	3	1572.86	-0.92	0.09	KLC1_MOUSE	Q5UE59_MOUSE	Kinesin light chain 1;		0.15 - 0.25
ISLEVSRGSR	AEVSTIHLQSPGR	N-ter +34.06 Da	29.1	45.6	3	1427.86	0.68	0.05	SYNEM_MOUSE	F6VN34_MOUSE	Synemin;	Desmuslin;	0.25 - 0.75
ATEEDIHDKF	AEYGEIKNIHLNLDR	N-ter +34.06 Da, K +34.06 Da	24.3	59.0	4	1852.16	-1.89	0.14	RBM8A_MOUSE		RNA-binding protein 8A;	RNA-binding motif protein 8A;Ribonucleoprotein RBM8A;	0.00 - 0.15
PKHLSRKTLV	AFPQKVMPPPQAR	N-ter +28.03 Da, K +28.03 Da	34.1	38.6	3	1521.91	0.33	0.02	Q3U422_MOUSE				0.25 - 0.75
SSVLTPTPPQ	AFTVIDQNR	N-ter +34.06 Da	29.2	32.9	2	1096.64	-0.30	0.02	MLRS_MOUSE	F6ULR7_MOUSE	Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.25 - 0.75
DFRHTMHVGR	AGDAFGDTSFLTSKAR	N-ter +28.03 Da, K +28.03 Da	44.5	52.8	3	1698.95	0.49	0.04	BORG4_MOUSE	A2A6Q2_MOUSE	Cdc42 effector protein 4;	Binder of Rho GTPases 4;	0.25 - 0.75
RTFGTTGERR	AGEEAADSPELPR	N-ter +34.06 Da	35.2	55.3	3	1374.76	-0.43	0.04	ADXL_MOUSE		Adrenodoxin-like protein, mitochondrial;	Ferredoxin-1-like protein;	0.25 - 0.75
DKVIRPGVSQ	AGEEMEQFGQGVR	N-ter +28.03 Da	32.9	58.2	3	1464.75	-0.20	0.01	SBSN_MOUSE	E9QPB2_MOUSE	Suprabasin;		0.25 - 0.75
VCDNGSGLCK	AGFAGDDAPR	N-ter +34.06 Da	35.7	38.7	2	1009.54	-0.12	0.01	ACTA_MOUSE	ACTB_MOUSE	Actin, aortic smooth muscle;	Alpha-actin-2;	0.25 - 0.75
M	AGGEGGVTLGQPHLSR	N-ter +28.03 Da	35.0	47.6	3	1562.89	-0.64	0.10	IF2G_MOUSE	A2AAW9_MOUSE	Eukaryotic translation initiation factor 2 subunit 3, X-linked;	Eukaryotic translation initiation factor 2 subunit gamma, X-linked;	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
YSGLQGLPGL	AGLHGDQGAPGPVGPAGPR	N-ter +34.06 Da	47.5	47.2	3	1744.01	-2.40	0.50	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.00 - 0.15
MERGNFGGSF	AGSFGGAGGHAPGVAR	N-ter +28.03 Da	45.7	47.6	3	1395.77	-0.86	0.08	HNRPM_MOUSE	B8JK32_MOUSE	Heterogeneous nuclear ribonucleoprotein M;		0.15 - 0.25
RGQSSSANRR	AGSSSGSGVQGASAGGLAADASR	N-ter +34.06 Da	79.2	37.2	3	1954.03	0.48	0.14	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.25 - 0.75
IKVDKGVVPL	AGTNGETTTQGLDGLSER	N-ter +34.06 Da	41.7	45.3	3	1839.99	-2.64	0.33	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.00 - 0.15
QADCAVLIVA	AGVGEFEAGISKNGQTR	N-ter +28.03 Da, K +28.03 Da	37.7	46.1	3	1776.00	-1.89	0.21	EF1A1_MOUSE	EF1A2_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.00 - 0.15
GARGAQVRGN	AGVSDGSEVAKAQKAAPGGASPTIFSR	N-ter +28.03 Da, K +28.03 Da	21.8	56.1	4	2642.55	0.52	0.13	HINT2_MOUSE		Histidine triad nucleotide-binding protein 2, mitochondrial;	HINT-3;	0.25 - 0.75
QMSYGYDEKS	AGVSVPGPMGPSGPR	N-ter +34.06 Da	38.8	56.4	3	1398.83	-2.18	0.30	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
VLLGTLPARA	AHEDPVEKVIEGFSR	N-ter +28.03 Da, K +28.03 Da	35.0	68.0	4	1768.04	0.23	0.06	SBSN_MOUSE	E9QPB2_MOUSE	Suprabasin;		0.25 - 0.75
IMELINNVAK	AHGGYSVFAGVGER	N-ter +28.03 Da	26.4	57.8	3	1433.79	1.29	0.11	ATPB_MOUSE		ATP synthase subunit beta, mitochondrial;		0.75 - 0.85
RAISTSVCLR	AHGSVVKSEDYAFPTYADRR	N-ter +34.06 Da, K +34.06 Da	25.1	65.6	4	2336.37	-0.81	0.14	COX41_MOUSE		Cytochrome c oxidase subunit 4 isoform 1, mitochondrial;	Cytochrome c oxidase polypeptide IV;Cytochrome c oxidase subunit IV isoform 1;	0.15 - 0.25
RAISTSVCLR	AHGSVVKSEDYAFPTYADR	N-ter +34.06 Da, K +34.06 Da	29.2	61.7	4	2180.25	-1.09	0.19	COX41_MOUSE		Cytochrome c oxidase subunit 4 isoform 1, mitochondrial;	Cytochrome c oxidase polypeptide IV;Cytochrome c oxidase subunit IV isoform 1;	0.15 - 0.25
SELLHSITLL	AHLTGDTIIQGSATSLR	N-ter +28.03 Da	39.0	55.8	3	1768.05	0.66	0.11	HIP1_MOUSE		Huntingtin-interacting protein 1;	Huntingtin-interacting protein I;	0.25 - 0.75
FSKDWSFYIL	AHTEFTPTETDTYACR	N-ter +28.03 Da, C +57.02 Da	53.6	54.8	3	1926.95	-0.89	0.23	B2MG_MOUSE	Q91XJ8_MOUSE	Beta-2-microglobulin;		0.15 - 0.25
DRQKEVNENF	AIDLIAQQPVNEVEHR	N-ter +28.03 Da	49.4	46.3	3	1859.08	-1.00	0.16	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
RPGRPASYKR	AIGEDFVLLKER	N-ter +28.03 Da, K +28.03 Da	24.5	53.2	3	1444.91	0.52	0.08	MINK1_MOUSE	E9Q2Q5_MOUSE	Misshapen-like kinase 1;	GCK family kinase MiNK;MAPK/ERK kinase kinase kinase 6;Misshapen/NIK-related kinase;Mitogen-activated protein kinase kinase kinase kinase 6;	0.25 - 0.75
EAAGNKYVPR	AILVDLEPGTMDSVR	N-ter +28.03 Da	32.7	49.6	3	1642.94	-1.22	0.17	TBB2A_MOUSE	TBB2B_MOUSE	Tubulin beta-2A chain;		0.15 - 0.25
EFEQFLPMMQ	AISNNKDQGGYEDFVEGLR	N-ter +34.06 Da, K +34.06 Da	32.2	46.7	3	2179.22	0.37	0.11	MYL1_MOUSE	E9PWG4_MOUSE	Myosin light chain 1/3, skeletal muscle isoform;	Myosin light chain alkali 1/2;	0.25 - 0.75
FFKYEVRGHT	AISYCHETMTGWVHDVLGR	N-ter +28.03 Da, C +57.02 Da	34.9	68.6	4	2259.21	2.72	1.07	CATC_MOUSE	D3Z220_MOUSE	Dipeptidyl peptidase 1;	Cathepsin C;Cathepsin J;Dipeptidyl peptidase I;Dipeptidyl transferase;	0.85 - 1.00
IVEGLMTTVH	AITATQKTVDGPSGKLWR	N-ter +34.06 Da, K +34.06 Da	22.9	53.6	4	2030.35	-0.25	0.05	G3P_MOUSE	F8WJL5_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.25 - 0.75
RVLLPEGGIT	AIVEFLEPLEAR	N-ter +28.03 Da	23.5	73.3	3	1413.89	1.14	0.17	RBM19_MOUSE		Probable RNA-binding protein 19;	RNA-binding motif protein 19;	0.75 - 0.85
LLPLLAGAQA	AIVFIKEPSSQDALQGR	N-ter +34.06 Da, K +34.06 Da	23.1	47.7	3	1926.21	1.05	0.21	PTK7_MOUSE	Q3V2W2_MOUSE	Inactive tyrosine-protein kinase 7;	Protein chuzhoi;Protein-tyrosine kinase 7;Pseudo tyrosine kinase receptor 7;Tyrosine-protein kinase-like 7;	0.75 - 0.85
GEDFSETLTR	AKFEELNMDLFR	N-ter +28.03 Da, K +28.03 Da	35.4	60.2	3	1567.90	1.46	0.28	GRP78_MOUSE		78 kDa glucose-regulated protein;	Heat shock 70 kDa protein 5;Immunoglobulin heavy chain-binding protein;	0.75 - 0.85
PDLSKHNNHM	AKVLTPDLYNKLR	N-ter +34.06 Da, K +34.06 Da	18.9	54.1	4	1632.17	0.53	0.08	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
FAPQFLSVQK	ALDLDPSKTNVSGGAIALGHPLGGSGSR	N-ter +28.03 Da, K +28.03 Da	42.0	60.7	4	2702.60	0.68	0.20	THIM_MOUSE		3-ketoacyl-CoA thiolase, mitochondrial;	Acetyl-CoA acyltransferase;Beta-ketothiolase;Mitochondrial 3-oxoacyl-CoA thiolase;	0.25 - 0.75
RQNKDLMELQ	ALIDSHFEAR	N-ter +34.06 Da	28.8	51.8	3	1191.71	-0.81	0.03	TNNT3_MOUSE	A2A6J0_MOUSE	Troponin T, fast skeletal muscle;	Fast skeletal muscle troponin T;	0.15 - 0.25
RKDAQMVHSN	ALNEDTQDELGDPR	N-ter +28.03 Da	35.5	49.5	3	1599.82	-0.89	0.13	AMRP_MOUSE	F6SY09_MOUSE	Alpha-2-macroglobulin receptor-associated protein;	Heparin-binding protein 44;Low density lipoprotein receptor-related protein-associated protein 1;	0.15 - 0.25
QTPYIPFNLG	ALSAMSNQQLEDLINQGR	N-ter +34.06 Da	24.3	51.9	4	2021.15	-2.00	0.32	ATRX_MOUSE		Transcriptional regulator ATRX;	ATP-dependent helicase ATRX;HP1 alpha-interacting protein;HP1-BP38 protein;Heterochromatin protein 2;X-linked nuclear protein;	0.00 - 0.15
KTDQVIQFFI	ALVNDPQPEHPLR	N-ter +28.03 Da	47.7	42.4	3	1512.87	4.25	0.95	UB2L3_MOUSE		Ubiquitin-conjugating enzyme E2 L3;	UbcM4;Ubiquitin carrier protein L3;Ubiquitin-protein ligase L3;	0.85 - 1.00
TLNAANVPAG	AMDDDIAALVVDNGSGMCKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	23.6	30.5	4	2994.44	1.82	0.55	E9Q606_MOUSE				0.85 - 1.00
LALAFGLAHA	AMEGPWKTVAIAADR	N-ter +34.06 Da, K +34.06 Da	34.7	45.0	3	1683.02	2.48	0.29	A2AEN9_MOUSE	Q9D3H2_MOUSE			0.85 - 1.00
LAALFTFTMW	AMLQTLNDEVPKYR	N-ter +28.03 Da, K +28.03 Da	49.0	47.1	3	1733.00	0.25	0.04	AT1B3_MOUSE		Sodium/potassium-transporting ATPase subunit beta-3;	Sodium/potassium-dependent ATPase subunit beta-3;	0.25 - 0.75
IRYREPRRML	AMPLDLDALSPEER	N-ter +28.03 Da	47.6	51.1	3	1583.87	0.98	0.09	RM55_MOUSE		39S ribosomal protein L55, mitochondrial;		0.75 - 0.85
EPKRRSARLS	AMPVPFTPELKPKR	N-ter +28.03 Da, K +28.03 Da	24.2	56.7	4	1694.09	-0.25	0.03	HMGN5_MOUSE		High mobility group nucleosome-binding domain-containing protein 5;	Nucleosome-binding protein 1;Nucleosome-binding protein 45;Protein GARP45;	0.25 - 0.75
PREIFKQKER	AMSTTSVTSSQPGKLR	N-ter +28.03 Da, K +28.03 Da	42.6	37.7	3	1705.97	1.70	0.58	DBNL_MOUSE		Drebrin-like protein;	Actin-binding protein 1;SH3 domain-containing protein 7;	0.85 - 1.00
SPVSSGVNLF	ANDGSFLELFKR	N-ter +28.03 Da, K +28.03 Da	42.1	57.9	3	1451.86	0.84	0.21	CS043_MOUSE		Uncharacterized protein C19orf43 homolog;		0.25 - 0.75
QPISNVRAIQ	ANINIPMGAFRPGAGQPPR	N-ter +28.03 Da	24.6	48.7	3	1991.15	0.21	0.02	SMPX_MOUSE		Small muscular protein;	Stretch-responsive skeletal muscle protein;	0.25 - 0.75
NPEESIEDIY	ANIPDLPSSYIPSR	N-ter +28.03 Da	34.5	44.4	3	1556.89	-0.27	0.02	PALMD_MOUSE	Q3UVT7_MOUSE	Palmdelphin;		0.25 - 0.75
CDIDIRKDLY	ANNVMSGGTTMYPGIADR	N-ter +28.03 Da	26.1	56.3	3	1881.98	-2.64	0.66	ACTS_MOUSE		Actin, alpha skeletal muscle;	Alpha-actin-1;	0.00 - 0.15
SPSEIGPGMP	ANQDTIFEGIGGPR	N-ter +34.06 Da	40.8	47.5	3	1507.86	-3.47	0.39	CO5A1_MOUSE		Collagen alpha-1(V) chain;		0.00 - 0.15
FGVTTLDIVR	ANTFVAELKGLDPAR	N-ter +28.03 Da, K +28.03 Da	38.0	46.6	3	1657.00	1.00	0.09	MDHM_MOUSE		Malate dehydrogenase, mitochondrial;		0.75 - 0.85
CDVDIRKDLY	ANTVLSGGTTMYPGIADR	N-ter +28.03 Da	34.6	54.6	3	1851.02	-0.45	0.07	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.25 - 0.75
DLSKVLFICT	ANVIDTIPEPLR	N-ter +28.03 Da	38.3	22.3	2	1364.80	0.86	0.06	LONM_MOUSE	E9Q120_MOUSE	Lon protease homolog, mitochondrial;	Lon protease-like protein;Mitochondrial ATP-dependent protease Lon;Serine protease 15;	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
QSQWDKVKDF	ANVYVDAVKDSGR	N-ter +28.03 Da, K +28.03 Da	19.0	49.2	3	1448.83	1.32	0.08	APOA1_MOUSE	Q8BPD5_MOUSE	Apolipoprotein A-I;	Apolipoprotein A1;	0.75 - 0.85
LLSWASRNEA	APDQDEIDCLPGLAKQPSFR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	38.4	59.5	4	2312.28	0.96	0.12	PPGB_MOUSE	A2A5J9_MOUSE	Lysosomal protective protein;	Carboxypeptidase C;Carboxypeptidase L;Cathepsin A;Protective protein cathepsin A;Protective protein for beta-galactosidase;	0.75 - 0.85
HHTFYNELRV	APEEHPVLLTEAPLNPKANR	N-ter +28.03 Da, K +28.03 Da	50.1	58.0	4	2251.36	1.35	0.15	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.75 - 0.85
LRRFMQTFVL	APEGSVANKFYVHNDIFR	N-ter +28.03 Da, K +28.03 Da	27.2	59.7	4	2119.21	0.62	0.07	G3BP1_MOUSE	Q3UR88_MOUSE	Ras GTPase-activating protein-binding protein 1;	ATP-dependent DNA helicase VIII;GAP SH3 domain-binding protein 1;HDH-VIII;	0.25 - 0.75
SQPESSLPAI	APLPDSDPDPQALLLAR	N-ter +28.03 Da	26.2	54.5	3	1816.07	-0.42	0.04	C2D1B_MOUSE		Coiled-coil and C2 domain-containing protein 1B;	Five prime repressor element under dual repression-binding protein 2;	0.25 - 0.75
M	APNVLASEPEIPKGIR	N-ter +28.03 Da, K +28.03 Da	40.8	32.8	3	1746.06	1.42	0.19	KAD2_MOUSE		Adenylate kinase 2, mitochondrial;	ATP-AMP transphosphorylase 2;	0.75 - 0.85
ATSASGALLS	APPSGPPISGFSVGTTYDITR	N-ter +28.03 Da	59.4	39.8	3	2147.18	-0.81	0.13	PRRC1_MOUSE		Protein PRRC1;	Proline-rich and coiled-coil-containing protein 1;	0.15 - 0.25
VAGPQPAQTG	APQGSLGEYLFER	N-ter +28.03 Da	42.2	52.2	3	1493.83	1.01	0.08	FRIL1_MOUSE	Q9CPX4_MOUSE	Ferritin light chain 1;	Ferritin L subunit 1;	0.75 - 0.85
NAILVRYTQK	APQVSTPTLVEAAR	N-ter +28.03 Da	39.4	43.5	3	1466.87	-2.12	0.37	ALBU_MOUSE		Serum albumin;		0.00 - 0.15
LLATVWHGQG	APVIEPSGPELVVEPGETVTLR	N-ter +34.06 Da	62.7	43.6	3	2322.39	-0.14	0.04	CSF1R_MOUSE	Q3TBH6_MOUSE	Macrophage colony-stimulating factor 1 receptor;	CSF-1 receptor;Proto-oncogene c-Fms;	0.25 - 0.75
DMTSKFLTAL	AQDGVINEEALSVTELDR	N-ter +28.03 Da	63.8	47.2	3	1986.08	2.22	0.38	PDC6I_MOUSE	B8JJL8_MOUSE	Programmed cell death 6-interacting protein;	ALG-2-interacting protein 1;ALG-2-interacting protein X;E2F1-inducible protein;Eig2;	0.85 - 1.00
ITQQASMTSL	AQGPGTTSAITFPEEQEDPR	N-ter +34.06 Da	38.8	48.2	3	2164.15	-0.64	0.15	PRRC1_MOUSE		Protein PRRC1;	Proline-rich and coiled-coil-containing protein 1;	0.25 - 0.75
TIEHLLPLFL	AQLKDECPEVR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	30.1	46.1	3	1399.78	-3.47	0.39	2AAA_MOUSE	2AAB_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;	0.00 - 0.15
NLQSRSFRIL	AQMTGTEYMQDPDEEALR	N-ter +28.03 Da	48.2	47.1	3	2112.01	1.25	0.33	LDB3_MOUSE	E9PYJ9_MOUSE	LIM domain-binding protein 3;	Protein cypher;Protein oracle;Z-band alternatively spliced PDZ-motif protein;	0.75 - 0.85
LARAPLCERI	AQNFGLQHLSSGHLLR	N-ter +28.03 Da	60.6	60.7	4	1805.08	0.66	0.08	KAD4_MOUSE	A2ARF6_MOUSE	Adenylate kinase isoenzyme 4, mitochondrial;	ATP-AMP transphosphorylase;Adenylate kinase 3-like;	0.25 - 0.75
MRAAPRRAPA	AQPPAAAAPSAVGSPAAAPR	N-ter +34.06 Da	60.6	60.4	3	1791.09	-1.43	0.39	CHCH2_MOUSE	B2RPU8_MOUSE	Coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial;		0.15 - 0.25
GIDFYTSITR	ARFEELNADLFR	N-ter +28.03 Da	39.2	66.5	3	1507.88	0.77	0.08	HSP7C_MOUSE	HSP72_MOUSE	Heat shock cognate 71 kDa protein;	Heat shock 70 kDa protein 8;	0.25 - 0.75
SPCLLPRVHL	ASAFGSSTESLVAR	N-ter +34.06 Da	48.5	35.5	2	1415.80	-0.12	0.02	THEM5_MOUSE		Thioesterase superfamily member 5;		0.25 - 0.75
QGRRGVSESQ	ASDSEGHSDFSEGQAVGAHR	N-ter +28.03 Da	51.7	60.2	4	2071.02	1.68	0.43	E9Q019_MOUSE	FILA_MOUSE			0.85 - 1.00
GKRHPYKMNL	ASEPQEVLHIGSAHNR	N-ter +28.03 Da	38.4	50.7	4	1771.99	2.92	0.31	PDLI1_MOUSE		PDZ and LIM domain protein 1;	C-terminal LIM domain protein 1;Elfin;LIM domain protein CLP-36;	0.85 - 1.00
ENVFGVCHIF	ASFNDTFVHVTDLSGKETICR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	64.8	58.8	4	2452.35	2.02	0.68	RS14_MOUSE	D3YVF4_MOUSE	40S ribosomal protein S14;		0.85 - 1.00
KSPQVILVNM	ASFPECTAAAIKAIR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	37.3	49.6	3	1660.98	-0.30	0.04	RRFM_MOUSE		Ribosome-recycling factor, mitochondrial;	Ribosome-releasing factor, mitochondrial;	0.25 - 0.75
ENAFSRSGGR	ASGDKEAEGAPQVEAGKR	N-ter +28.03 Da, K +28.03 Da	31.1	61.4	4	1883.09	2.09	0.39	Q8VCQ8_MOUSE	E9Q0M9_MOUSE			0.85 - 1.00
ARGAAVTRSM	ASGGGVPTDEEQATGLER	N-ter +28.03 Da	40.7	50.4	3	1800.94	-0.22	0.02	COX5B_MOUSE	Q9D881_MOUSE	Cytochrome c oxidase subunit 5B, mitochondrial;	Cytochrome c oxidase polypeptide Vb;	0.25 - 0.75
EPAGTPRRSY	ASGPGGLHADLLR	N-ter +28.03 Da	42.4	53.3	3	1290.77	0.01	0.00	SSDH_MOUSE		Succinate-semialdehyde dehydrogenase, mitochondrial;	Aldehyde dehydrogenase family 5 member A1;NAD(+)-dependent succinic semialdehyde dehydrogenase;	0.25 - 0.75
KTGAAAGKRK	ASGPPVSELITKAVAASKER	N-ter +28.03 Da, K +28.03 Da	30.6	70.1	4	2094.35	0.26	0.01	H12_MOUSE	H13_MOUSE	Histone H1.2;	H1 VAR.1;H1c;	0.25 - 0.75
QEVRCLERSY	ASKPTLNEVVIVSAIR	N-ter +34.06 Da, K +34.06 Da	38.6	47.0	3	1764.20	-0.43	0.06	THIL_MOUSE		Acetyl-CoA acetyltransferase, mitochondrial;	Acetoacetyl-CoA thiolase;	0.25 - 0.75
ADPAKVEAFQ	ASLSKLGDVYVNDAFGTAHR	N-ter +28.03 Da, K +28.03 Da	56.4	62.2	4	2176.26	-0.45	0.06	PGK1_MOUSE	PGK2_MOUSE	Phosphoglycerate kinase 1;		0.25 - 0.75
QHSSKFMLVL	ASNQPEQFDWAINDR	N-ter +28.03 Da	39.3	51.6	3	1817.93	0.83	0.11	ATAD3_MOUSE		ATPase family AAA domain-containing protein 3;	AAA-ATPase TOB3;	0.25 - 0.75
M	ASQTQGIQQLLQAEKR	N-ter +28.03 Da, K +28.03 Da	28.1	28.9	3	1854.09	2.48	0.44	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
RSALQSINEW	ASQTTDGKLPEVTKDVER	N-ter +34.06 Da, K +34.06 Da	20.4	57.4	4	2075.32	-0.49	0.04	SERPH_MOUSE		Serpin H1;	47 kDa heat shock protein;Collagen-binding protein;Serine protease inhibitor J6;	0.25 - 0.75
GLLDWPQGTF	ASQVTLEGDKVKVER	N-ter +28.03 Da, K +28.03 Da	28.7	60.9	4	1742.10	-0.03	0.00	ETFB_MOUSE		Electron transfer flavoprotein subunit beta;		0.25 - 0.75
TTLSNAVSSL	ASTGLSLTKVDER	N-ter +28.03 Da, K +28.03 Da	25.9	44.4	3	1431.86	-0.45	0.09	PICA_MOUSE		Phosphatidylinositol-binding clathrin assembly protein;	Clathrin assembly lymphoid myeloid leukemia;	0.25 - 0.75
DGKPPSLTLA	ASTPGPEETLTAATVPPPPR	N-ter +28.03 Da	38.8	37.6	3	2016.13	-0.36	0.03	PRC2A_MOUSE		Protein PRRC2A;	HLA-B-associated transcript 2;Proline-rich and coiled-coil-containing protein 2A;	0.25 - 0.75
YVALDFENEM	ATAASSSSLEKSYELPDGQVITIGNER	N-ter +28.03 Da, K +28.03 Da	45.9	53.4	4	2878.61	3.02	0.89	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.85 - 1.00
NGQNSRPIKI	ATALPDDIITQR	N-ter +28.03 Da	27.5	45.6	3	1340.79	0.21	0.01	DNJC1_MOUSE	F6ZL86_MOUSE	DnaJ homolog subfamily C member 1;	DnaJ protein homolog MTJ1;	0.25 - 0.75
IREGEVEVLK	ATEMVEVGPEDDEVGAER	N-ter +28.03 Da	53.3	55.0	3	1959.98	1.02	0.22	PTRF_MOUSE		Polymerase I and transcript release factor;	Cav-p60;Cavin-1;	0.75 - 0.85
KRGTGGVDTA	ATGSVFDISNLDR	N-ter +28.03 Da	40.5	51.2	3	1421.79	0.71	0.07	KCRU_MOUSE		Creatine kinase U-type, mitochondrial;	Acidic-type mitochondrial creatine kinase;Ubiquitous mitochondrial creatine kinase;	0.25 - 0.75
NWYKMGLQVL	ATIEKIPFESAFR	N-ter +28.03 Da, K +28.03 Da	22.2	53.6	3	1563.95	0.91	0.13	FACR2_MOUSE		Fatty acyl-CoA reductase 2;	Male sterility domain-containing protein 1;	0.25 - 0.75
VIQHRPSQQY	ATLDVYNPFENR	N-ter +28.03 Da	24.5	55.8	3	1465.80	0.03	0.01	SCAM3_MOUSE	Q3UXS0_MOUSE	Secretory carrier-associated membrane protein 3;		0.25 - 0.75
LTGEFEKKYV	ATLGVEVHPLVFHTNR	N-ter +28.03 Da	33.7	55.7	4	1817.10	-0.49	0.06	RAN_MOUSE		GTP-binding nuclear protein Ran;	GTPase Ran;Ras-like protein TC4;Ras-related nuclear protein;	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
DTLHRVKMIM	ATNRPDTLDPALLRPGR	N-ter +28.03 Da	21.4	59.2	4	1890.16	1.22	0.15	PRS10_MOUSE		26S protease regulatory subunit 10B;	26S proteasome AAA-ATPase subunit RPT4;Proteasome 26S subunit ATPase 6;Proteasome subunit p42;	0.75 - 0.85
KHKKEKAVTI	ATPATAAPAAVSAATTTSAQEEPAAAPEPR	N-ter +28.03 Da	57.5	43.7	4	2833.53	-1.69	0.11	SRRM1_MOUSE	A2A8V8_MOUSE	Serine/arginine repetitive matrix protein 1;	Plenty-of-prolines 101;	0.00 - 0.15
HLAQGSETVQ	ATPESLEVPEVTEDVDR	N-ter +34.06 Da	45.2	42.5	3	1919.04	-0.81	0.13	AKA12_MOUSE		A-kinase anchor protein 12;	Germ cell lineage protein gercelin;Src-suppressed C kinase substrate;	0.15 - 0.25
GRRDSKSPTK	ATPLPAEGKKNTLR	N-ter +28.03 Da, K +28.03 Da	24.9	56.1	4	1579.03	-0.20	0.02	E41L2_MOUSE		Band 4.1-like protein 2;	Generally expressed protein 4.1;	0.25 - 0.75
AVAAAAATTT	ATTTTTSGGHPLEFLR	N-ter +34.06 Da	30.4	49.1	3	1722.00	0.20	0.02	RD23B_MOUSE	Q3TJ52_MOUSE	UV excision repair protein RAD23 homolog B;	XP-C repair-complementing complex 58 kDa protein;	0.25 - 0.75
QERQTQAVLQ	AVADKVKEDSQVPATQTLQR	N-ter +34.06 Da, K +34.06 Da	34.8	48.1	4	2285.45	-1.56	0.32	AKA12_MOUSE		A-kinase anchor protein 12;	Germ cell lineage protein gercelin;Src-suppressed C kinase substrate;	0.00 - 0.15
QLAAQPSTYL	AVAEELENVSGKYFDGLR	N-ter +28.03 Da, K +28.03 Da	48.0	49.2	3	2052.15	1.67	0.29	RDH13_MOUSE		Retinol dehydrogenase 13;		0.85 - 1.00
LLENMEGLFL	AVDEIVDGGVILESDPQQVVHR	N-ter +28.03 Da	70.3	62.4	4	2402.39	2.66	0.64	COPZ1_MOUSE	Q8R3M1_MOUSE	Coatomer subunit zeta-1;	Zeta-1-coat protein;	0.85 - 1.00
QKIGQPTLLL	AVEEQYSCEYGSGR	N-ter +34.06 Da, C +57.02 Da	45.2	40.6	3	1667.80	-1.52	0.43	E9PX16_MOUSE				0.00 - 0.15
LQFFNLDFTL	AVFHPETSTIQGLEGR	N-ter +28.03 Da	34.4	49.5	3	1769.00	1.23	0.15	FR1OP_MOUSE		FGFR1 oncogene partner;		0.75 - 0.85
KRGTGGVDTA	AVGAVFDISNADR	N-ter +34.06 Da	36.7	48.7	3	1367.79	-2.18	0.30	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
IIPASTGAAK	AVGKVIPELNGKLTGMAFR	N-ter +28.03 Da, K +28.03 Da	38.8	60.5	4	2084.34	-1.52	0.26	G3P_MOUSE	F8WJL5_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.00 - 0.15
GERGLPGPPG	AVGPAGKDGEAGAQGAPGPAGPAGER	N-ter +34.06 Da, K +34.06 Da	54.0	47.2	4	2312.32	-1.74	0.41	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
EATGGKYVPR	AVLVDLEPGTMDSVR	N-ter +28.03 Da	36.3	49.5	3	1628.93	-0.52	0.04	TBB2C_MOUSE	TBB4_MOUSE	Tubulin beta-4B chain;	Tubulin beta-2C chain;	0.25 - 0.75
GPEPTTDCFV	AVMHGETEGTVPGNALVVDPEKPFR	N-ter +28.03 Da, K +28.03 Da	56.3	54.7	4	2705.53	3.41	0.58	EHD2_MOUSE		EH domain-containing protein 2;		0.85 - 1.00
SSLLSPMSVN	AVMKVIDPATATSVDLR	N-ter +28.03 Da, K +28.03 Da	45.1	40.8	3	1842.10	-0.27	0.03	TCPD_MOUSE		T-complex protein 1 subunit delta;	A45;CCT-delta;	0.25 - 0.75
RSLLVIPNTL	AVNAAQDSTDLVAKLR	N-ter +28.03 Da, K +28.03 Da	41.8	41.2	3	1727.03	0.52	0.04	TCPA_MOUSE		T-complex protein 1 subunit alpha;	CCT-alpha;Tailless complex polypeptide 1A;Tailless complex polypeptide 1B;	0.25 - 0.75
VLTGFGMTLC	AVPIAQKSEPQSLSNEALMR	N-ter +28.03 Da, K +28.03 Da	34.8	58.6	4	2224.32	0.80	0.31	Q542V8_MOUSE	D3Z3K5_MOUSE			0.25 - 0.75
LSLEVQELQA	AVRPLQLLGTCAELCR	N-ter +28.03 Da, C +57.02 Da	69.6	45.0	3	1884.09	-0.30	0.06	Q8BTE6_MOUSE				0.25 - 0.75
AVPDKTVKWC	AVSEHENTKCISFR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	24.3	73.5	4	1732.98	-0.14	0.02	TRFE_MOUSE	D3YYR8_MOUSE	Serotransferrin;	Beta-1 metal-binding globulin;Siderophilin;	0.25 - 0.75
MDIQGDPKYR	AVSEQGVCTLEIR	N-ter +28.03 Da, C +57.02 Da	31.4	52.5	3	1488.84	-0.36	0.03	MYBPH_MOUSE		Myosin-binding protein H;	H-protein;	0.25 - 0.75
LQSELMSLTL	AVSKEKEEEETSPDTSIPR	N-ter +28.03 Da, K +28.03 Da	34.9	62.1	4	2215.26	1.34	0.33	E9Q7D5_MOUSE				0.75 - 0.85
TGQAAPVLGL	AVSSELQIQQSFVPDECPR	N-ter +28.03 Da, C +57.02 Da	48.9	46.2	3	2217.18	1.26	0.18	FKBP9_MOUSE		Peptidyl-prolyl cis-trans isomerase FKBP9;	63 kDa FK506-binding protein;FK506-binding protein 9;FKBP65RS;Rotamase;	0.75 - 0.85
TEEQPGEEDQ	AVSVSFGDPEGSALHEKSLR	N-ter +28.03 Da, K +28.03 Da	22.8	46.3	4	2141.21	-1.47	0.16	F2Z403_MOUSE				0.15 - 0.25
FISNPNSIIL	AVTAANTDMATSEALKISR	N-ter +28.03 Da, K +28.03 Da	44.8	42.3	3	2005.14	0.30	0.06	DNM1L_MOUSE	E9PUD2_MOUSE	Dynamin-1-like protein;	Dynamin family member proline-rich carboxyl-terminal domain less;Dynamin-related protein 1;	0.25 - 0.75
LLIATEEGFK	AVVGDDEYLHFHHR	N-ter +34.06 Da	34.6	64.0	4	1727.97	-0.09	0.03	LEG7_MOUSE	Q9CRB1_MOUSE	Galectin-7;		0.25 - 0.75
ITKHNDDEQY	AWESSAGGSFTVR	N-ter +28.03 Da	36.4	51.4	2	1381.73	-2.00	0.24	HS90A_MOUSE	HS90B_MOUSE	Heat shock protein HSP 90-alpha;	Heat shock 86 kDa;Tumor-specific transplantation 86 kDa antigen;	0.00 - 0.15
SGEDKSNIKA	AWGKIGGHGAEYGAEALER	N-ter +34.06 Da, K +34.06 Da	52.4	58.8	4	2039.21	-2.12	0.28	HBA_MOUSE	Q91VB8_MOUSE	Hemoglobin subunit alpha;	Alpha-globin;Hemoglobin alpha chain;	0.00 - 0.15
GTDMVPAISL	AYEQAESDIMKR	N-ter +28.03 Da, K +28.03 Da	23.7	52.7	3	1495.81	-1.60	0.15	AT1A1_MOUSE	E9QAV3_MOUSE	Sodium/potassium-transporting ATPase subunit alpha-1;	Sodium pump subunit alpha-1;	0.00 - 0.15
IFGDYIERLW	AYLTIEQLLEKR	N-ter +28.03 Da, K +28.03 Da	40.1	48.5	3	1531.97	2.79	0.57	ITIH3_MOUSE	F6ZXJ7_MOUSE	Inter-alpha-trypsin inhibitor heavy chain H3;		0.85 - 1.00
LGEMLHEPTN	CAPYNTSDTTETSNNYR	N-ter +34.06 Da, C +57.02 Da	22.0	68.2	3	2027.01	-6.64	0.00	Q6DFU8_MOUSE				0.00 - 0.15
ARNLGRVGTK	CCTLPEDQR	N-ter +28.03 Da, C +57.02 Da	33.6	37.6	2	1205.56	1.09	0.22	ALBU_MOUSE		Serum albumin;		0.75 - 0.85
CDDEETTALV	CDNGSGLVKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	62.6	46.4	3	1962.02	0.61	0.17	ACTC_MOUSE	ACTS_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
KVLLSICSLL	CDPNPDDPLVPEIAR	N-ter +28.03 Da, C +57.02 Da	29.9	54.7	3	1734.92	-0.43	0.05	UB2D2_MOUSE	UB2D3_MOUSE	Ubiquitin-conjugating enzyme E2 D2;	Ubiquitin carrier protein D2;Ubiquitin-conjugating enzyme E2(17)KB 2;Ubiquitin-conjugating enzyme E2-17 kDa 2;Ubiquitin-protein ligase D2;	0.25 - 0.75
MEPYS	CDTFVALPPATVGNR	N-ter +34.06 Da, C +57.02 Da	33.5	41.6	3	1650.93	-0.97	0.04	SCRN3_MOUSE	A2AWQ9_MOUSE	Secernin-3;		0.15 - 0.25
HNLPGLFRCE	CEIGYELDR	N-ter +28.03 Da, C +57.02 Da	40.1	57.1	2	1181.61	1.89	0.28	FBN1_MOUSE	A2AQ53_MOUSE	Fibrillin-1;		0.85 - 1.00
VTVAFTNARD	CFLHLPR	N-ter +34.06 Da, C +57.02 Da	29.9	64.2	2	975.62	-4.64	1.16	PEX1_MOUSE		Peroxisome biogenesis factor 1;	Peroxin-1;	0.00 - 0.15
QAGRFHVNLL	CGEEQGADAALHFNPR	N-ter +28.03 Da, C +57.02 Da	90.5	48.4	3	1798.89	1.99	0.54	Q9CRB1_MOUSE	LEG7_MOUSE			0.85 - 1.00
DDFAQFLDTC	CKAADKDTCFSTEGPNLVTR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	31.2	66.0	4	2353.30	0.59	0.06	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
GNSTHPMHSR	CSPDPGLTALLSDHR	N-ter +28.03 Da, C +57.02 Da	45.3	63.3	3	1665.92	2.64	0.51	HEMO_MOUSE		Hemopexin;		0.85 - 1.00
FNIFYELFTM	CTSIITEDEKGHLLHGR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	41.0	57.2	4	2021.15	-0.07	0.02	ASAH1_MOUSE	D3Z015_MOUSE	Acid ceramidase;	Acylsphingosine deacylase;N-acylsphingosine amidohydrolase;	0.25 - 0.75
NLLQHGITNL	CVIGGDGSLTGANIFR	N-ter +28.03 Da, C +57.02 Da	38.1	44.2	3	1663.91	-0.17	0.02	K6PL_MOUSE		6-phosphofructokinase, liver type;	Phosphofructo-1-kinase isozyme B;Phosphofructokinase 1;Phosphohexokinase;	0.25 - 0.75
KPTDGASSSN	CVTDISHLVR	N-ter +28.03 Da, C +57.02 Da	43.3	64.6	3	1226.72	0.86	0.12	NASP_MOUSE	B1AU75_MOUSE	Nuclear autoantigenic sperm protein;		0.25 - 0.75
MQN	DAGEFVDLYVPR	N-ter +28.03 Da	35.1	51.5	3	1407.78	0.00	0.00	RS21_MOUSE		40S ribosomal protein S21;		0.25 - 0.75
LGVKSVQKLL	DAVDTYIPVPTR	N-ter +28.03 Da	17.4	48.7	3	1373.79	3.76	1.10	EFTU_MOUSE	D3YVN7_MOUSE	Elongation factor Tu, mitochondrial;		0.85 - 1.00
PPQCRPFPGP	DAVERPRPPPPGPGPPWSPR	N-ter +34.06 Da	28.9	60.9	4	2195.31	-4.06	1.35	PDCD7_MOUSE	Q3U2X6_MOUSE	Programmed cell death protein 7;	ES18;	0.00 - 0.15
ASGTTLLEAL	DCILPPTRPTDKPLR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	24.1	69.5	4	1846.21	-2.25	0.11	EF1A1_MOUSE	D3YZ68_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.00 - 0.15
LPLLARLSAG	DCPCSEAALCQPIR	N-ter +34.06 Da, C +57.02 Da	47.3	60.9	3	1709.88	-0.81	0.14	DIAC_MOUSE		Di-N-acetylchitobiase;		0.15 - 0.25
ESAAKDEAVF	DDEVAPDAAAENCLAER	N-ter +28.03 Da, C +57.02 Da	49.3	52.8	3	1872.91	0.81	0.23	E9PVP1_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
VLLTFGFVRA	DDEVDVDGTVEEDLGKSR	N-ter +28.03 Da, K +28.03 Da	58.2	49.6	3	2033.04	2.25	0.60	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;	0.85 - 1.00
AKLAEQAERY	DDMAAAMKAVTEQGHELSNEER	N-ter +28.03 Da, K +28.03 Da	50.6	62.1	4	2487.29	5.22	1.51	1433B_MOUSE	A2A5N1_MOUSE	14-3-3 protein beta/alpha;	Protein kinase C inhibitor protein 1;	0.85 - 1.00
AKLAEQAERY	DDMAACMKSVTEQGAELSNEER	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	49.8	51.5	4	2526.23	3.17	1.33	1433Z_MOUSE	D3YXF4_MOUSE	14-3-3 protein zeta/delta;	Protein kinase C inhibitor protein 1;SEZ-2;	0.85 - 1.00
AAGGGGGENY	DDPHKTPASPVVHIR	N-ter +28.03 Da, K +28.03 Da	37.0	59.2	4	1724.04	-0.01	0.00	HNRPL_MOUSE	E9Q8W8_MOUSE	Heterogeneous nuclear ribonucleoprotein L;		0.25 - 0.75
WVEWKRSIGY	DDTDESHCVEHIESR	N-ter +28.03 Da, C +57.02 Da	36.2	57.5	4	1855.87	2.04	0.68	PLIN2_MOUSE		Perilipin-2;	Adipophilin;Adipose differentiation-related protein;	0.85 - 1.00
LAAGPRPSLG	DEAIHCPPCSEEKLAR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	27.3	55.8	4	1967.03	-0.45	0.06	IBP4_MOUSE		Insulin-like growth factor-binding protein 4;		0.25 - 0.75
DVIRNAFACF	DEEAIGTIQEDYLR	N-ter +28.03 Da	34.5	44.7	3	1678.88	1.25	0.25	Q6ZWQ9_MOUSE				0.75 - 0.85
DVIRNAFACF	DEEASGFIHEDHLR	N-ter +28.03 Da	48.7	58.8	4	1681.87	1.47	0.31	MYL9_MOUSE		Myosin regulatory light polypeptide 9;	Myosin regulatory light chain 2, smooth muscle isoform;Myosin regulatory light chain 9;	0.75 - 0.85
DVIRNAFACF	DEEATGTIQEDYLR	N-ter +28.03 Da	35.4	45.5	3	1666.84	3.93	1.13	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;	0.85 - 1.00
KAVLSAEKLR	DEEVHTGLGELLR	N-ter +28.03 Da	40.4	47.0	3	1494.84	1.73	0.24	SERPH_MOUSE		Serpin H1;	47 kDa heat shock protein;Collagen-binding protein;Serine protease inhibitor J6;	0.85 - 1.00
VIGAVVDVQF	DEGLPPILNALEVQGR	N-ter +28.03 Da	45.9	46.7	3	1748.03	-0.23	0.06	ATPB_MOUSE		ATP synthase subunit beta, mitochondrial;		0.25 - 0.75
QTRDTQLITV	DEKLDITTLTGVPEEHIKTR	N-ter +34.06 Da, K +34.06 Da	49.4	65.6	4	2396.56	-2.06	0.69	NDUS4_MOUSE	E9QPX3_MOUSE	NADH dehydrogenase [ubiquinone] iron-sulfur protein 4, mitochondrial;	Complex I-18 kDa;Complex I-AQDQ;NADH-ubiquinone oxidoreductase 18 kDa subunit;	0.00 - 0.15
NFASQMSYGY	DEKSAGVSVPGPMGPSGPR	N-ter +34.06 Da, K +34.06 Da	39.4	37.0	3	1892.08	-3.06	0.26	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
DKDKSGFIEE	DELGSILKGFSSDAR	N-ter +34.06 Da, K +34.06 Da	33.6	54.2	3	1662.02	-2.94	2.26	PRVA_MOUSE		Parvalbumin alpha;		0.00 - 0.15
NYPKDNKRKM	DETDASSAVKVKR	N-ter +28.03 Da, K +28.03 Da	26.7	67.4	4	1488.92	1.57	0.31	TADBP_MOUSE	Q8R0B4_MOUSE	TAR DNA-binding protein 43;		0.75 - 0.85
MTDAAVSFAK	DFLAGGVAAAISKTAVAPIER	N-ter +28.03 Da, K +28.03 Da	23.7	54.7	4	2112.31	2.66	0.95	ADT2_MOUSE		ADP/ATP translocase 2;	ADP,ATP carrier protein 2;Adenine nucleotide translocator 2;Solute carrier family 25 member 5;	0.85 - 1.00
SQASDSEGHS	DFSEGQAVGAHR	N-ter +28.03 Da	47.7	54.6	3	1300.69	-1.94	0.22	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.00 - 0.15
GKSTTIKRKR	DGDKLVVECVMKGVTSTR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	40.0	60.1	4	2077.22	3.05	0.53	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;	0.85 - 1.00
VFKVIPMLNP	DGVIVGNYR	N-ter +28.03 Da	9.3	65.6	2	1019.61	-1.43	0.12	CBPC2_MOUSE	CBPC3_MOUSE	Cytosolic carboxypeptidase 2;	ATP/GTP-binding protein-like 2;	0.15 - 0.25
SASNRIIAAK	DHASIQMNVAEVDR	N-ter +34.06 Da	45.3	62.0	3	1617.90	-0.38	0.07	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	30.1	54.4	4	2562.36	1.92	0.59	ACTB_MOUSE	E9Q1F2_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.85 - 1.00
KLPGRVAFGE	DIDLPETFDAR	N-ter +28.03 Da	48.5	41.5	2	1318.70	3.16	0.74	CATB_MOUSE		Cathepsin B;	Cathepsin B1;	0.85 - 1.00
LGGNSSPSAK	DIKKILDSVGIEADDDR	N-ter +28.03 Da, K +28.03 Da	48.5	55.1	3	1985.18	3.55	1.52	RLA2_MOUSE		60S acidic ribosomal protein P2;		0.85 - 1.00
LLLWFPGIKC	DIKMTQSPSSMYASLGER	N-ter +28.03 Da, K +28.03 Da	54.0	54.0	3	2056.11	-1.09	0.19	KV5A5_MOUSE	KV5A6_MOUSE	Ig kappa chain V-V region T1;		0.15 - 0.25
LLFWIPASRG	DILLTQSPAILSVSPGER	N-ter +28.03 Da	50.5	46.2	3	1923.16	-3.18	1.45	KV5A9_MOUSE		Ig kappa chain V-V region L7;		0.00 - 0.15
LLLWFPGARC	DIQMTQSPSSLSASLGER	N-ter +28.03 Da	49.6	45.1	3	1934.03	-3.18	0.87	KV5A7_MOUSE	KV5A8_MOUSE	Ig kappa chain V-V region MOPC 41;		0.00 - 0.15
MVNPTVFF	DITADDEPLGR	N-ter +34.06 Da	39.1	29.5	2	1234.66	-0.09	0.01	PPIA_MOUSE	E9Q1E3_MOUSE	Peptidyl-prolyl cis-trans isomerase A;	Cyclophilin A;Cyclosporin A-binding protein;Rotamase A;SP18;	0.25 - 0.75
MLLWLSGVEG	DIVMTQSHKFMSTSVGDR	N-ter +28.03 Da, K +28.03 Da	44.3	66.1	4	2094.16	-1.52	0.39	KV5A1_MOUSE		Ig kappa chain V19-17;	Ig kappa chain V-V region MPC11;	0.00 - 0.15
LWDTLYQLET	DKFEFGEKLKR	N-ter +34.06 Da, K +34.06 Da	16.1	66.5	4	1532.11	-1.22	0.37	TNNT3_MOUSE	A2A6J0_MOUSE	Troponin T, fast skeletal muscle;	Fast skeletal muscle troponin T;	0.15 - 0.25
QQLIDDHFLF	DKPVSPLLTAAGMAR	N-ter +28.03 Da, K +28.03 Da	31.4	50.4	3	1581.97	0.21	0.03	KCRU_MOUSE	A2ARP5_MOUSE	Creatine kinase U-type, mitochondrial;	Acidic-type mitochondrial creatine kinase;Ubiquitous mitochondrial creatine kinase;	0.25 - 0.75
NRVYREELKR	DLAKDITSDTSGDFR	N-ter +28.03 Da, K +28.03 Da	52.3	49.0	3	1695.92	0.11	0.02	ANXA1_MOUSE	E9QA30_MOUSE	Annexin A1;	Annexin I;Annexin-1;Calpactin II;Calpactin-2;Chromobindin-9;Lipocortin I;Phospholipase A2 inhibitory protein;p35;	0.25 - 0.75
KDASVVGFFR	DLFSDGHSEFLKAASNLR	N-ter +28.03 Da, K +28.03 Da	26.1	63.3	4	2062.18	3.26	0.80	PDIA3_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;	0.85 - 1.00
QKEVNENFAI	DLIAQQPVNEVEHR	N-ter +28.03 Da	36.1	45.6	3	1674.95	-0.94	0.11	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
TKVNKECCHG	DLLECADDR	N-ter +28.03 Da, C +57.02 Da	27.2	76.1	2	1133.59	0.51	0.04	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
HHDYNTYTFL	DLNLDLSKFR	N-ter +34.06 Da, K +34.06 Da	24.9	56.4	3	1287.86	0.59	0.13	NDUV3_MOUSE	Q3U422_MOUSE	NADH dehydrogenase [ubiquinone] flavoprotein 3, mitochondrial;	Complex I-9kD;NADH-ubiquinone oxidoreductase 9 kDa subunit;	0.25 - 0.75
GGSLVSMLAR	DLPAAAAPAGPASFAR	N-ter +28.03 Da	45.7	41.2	3	1509.86	3.09	0.44	6PGL_MOUSE	Q8CBG6_MOUSE	6-phosphogluconolactonase;		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
PRTLASPKKK	DLSLEEIQKKLEAAEER	N-ter +28.03 Da, K +28.03 Da	30.0	69.0	4	2084.28	2.23	0.75	STMN1_MOUSE	STMN2_MOUSE	Stathmin;	Leukemia-associated gene protein;Leukemia-associated phosphoprotein p18;Metablastin;Oncoprotein 18;Phosphoprotein p19;Prosolin;Protein Pr22;pp17;	0.85 - 1.00
LTSESSRPTR	DLSSSDLSTASKIVK	N-ter +28.03 Da, K +28.03 Da	51.2	51.9	3	1634.00	1.31	0.44	A2M_MOUSE	D3YW52_MOUSE	Alpha-2-macroglobulin;	Pregnancy zone protein;	0.75 - 0.85
LTSESSRPTR	DLSSSDLSTASK	N-ter +28.03 Da, K +28.03 Da	38.7	31.6	2	1265.67	-0.54	0.07	A2M_MOUSE	D3YW52_MOUSE	Alpha-2-macroglobulin;	Pregnancy zone protein;	0.25 - 0.75
IMKCDIDIRK	DLYANNVMSGGTTMYPGIADR	N-ter +28.03 Da	50.0	55.5	3	2273.17	3.92	1.08	ACTS_MOUSE		Actin, alpha skeletal muscle;	Alpha-actin-1;	0.85 - 1.00
GAHHAFGQGR	DMAETFDQGAHHAFGQGGR	N-ter +28.03 Da	45.4	59.6	4	2059.02	0.06	0.02	SBSN_MOUSE	E9QPB2_MOUSE	Suprabasin;		0.25 - 0.75
DDEETTALVC	DNGSGLVKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da	54.3	48.3	3	1801.98	-1.25	0.21	ACTC_MOUSE	ACTS_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.15 - 0.25
WPDARGIWHN	DNKSFLVWVNEEDHLR	N-ter +34.06 Da, K +34.06 Da	48.4	70.4	4	2068.25	-1.32	0.33	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.15 - 0.25
LPTSLLTLYL	DNNKISNIPDEYFKR	N-ter +28.03 Da, K +28.03 Da	29.1	65.9	4	1936.13	-1.09	0.12	LUM_MOUSE		Lumican;	Keratan sulfate proteoglycan lumican;	0.15 - 0.25
LLTACLASRA	DPASTLPDIQVQENFSESR	N-ter +34.06 Da	48.1	47.7	3	2166.17	-0.23	0.04	AMBP_MOUSE		Protein AMBP;		0.25 - 0.75
VPTANAALPA	DPPASVVVGPVVVPR	N-ter +34.06 Da	51.6	43.1	3	1520.98	-0.32	0.04	FETUA_MOUSE		Alpha-2-HS-glycoprotein;	Countertrypin;Fetuin-A;	0.25 - 0.75
LLVILPATGS	DPVLCFTQYEESSGR	N-ter +34.06 Da, C +57.02 Da	43.2	49.2	3	1820.94	0.26	0.01	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	57.0	51.0	3	2144.17	1.32	0.29	PPGB_MOUSE	A2A5J9_MOUSE	Lysosomal protective protein;	Carboxypeptidase C;Carboxypeptidase L;Cathepsin A;Protective protein cathepsin A;Protective protein for beta-galactosidase;	0.75 - 0.85
IFLLYKIVRG	DQPGASGDNDDDEPPPLPR	N-ter +34.06 Da	28.7	48.8	3	2025.01	-0.64	0.05	PGRC1_MOUSE	Q3TFP8_MOUSE	Membrane-associated progesterone receptor component 1;		0.25 - 0.75
DVQETDTSQK	DQSPASHEIATNLGDFALR	N-ter +28.03 Da	53.1	50.9	3	2069.12	-2.40	0.76	A1AT4_MOUSE		Alpha-1-antitrypsin 1-4;	Alpha-1 protease inhibitor 4;Serine protease inhibitor 1-4;Serine protease inhibitor A1d;	0.00 - 0.15
EGSSNVFSMF	DQTQIQEFKEAFTVIDQNR	N-ter +34.06 Da, K +34.06 Da	41.6	50.6	4	2377.38	-0.71	0.49	MLRS_MOUSE	F6ULR7_MOUSE	Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.25 - 0.75
FEVLPEKADR	DQYELLCLDNTR	N-ter +28.03 Da, C +57.02 Da	34.7	66.2	3	1566.84	1.53	0.20	TRFE_MOUSE	E9Q035_MOUSE	Serotransferrin;	Beta-1 metal-binding globulin;Siderophilin;	0.75 - 0.85
GPVGPAGKNG	DRGETGPAGPAGPIGPAGAR	N-ter +34.06 Da	54.5	43.9	3	1837.05	-2.64	0.50	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
ASGRTTGIVL	DSGDGVTHNVPIYEGYALPHAIMR	N-ter +28.03 Da	62.0	59.7	4	2639.44	1.72	0.56	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.85 - 1.00
PRQPSPSQSS	DSQVHSGVQVEGR	N-ter +28.03 Da	28.8	44.0	3	1424.76	0.12	0.01	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.25 - 0.75
DVEPDTYCRY	DSVSVFNGAVSDDSKR	N-ter +34.06 Da, K +34.06 Da	64.9	44.7	3	1750.00	-0.30	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
QGVMVGMGQK	DSYVGDEAQSKR	N-ter +28.03 Da, K +28.03 Da	31.9	63.8	3	1409.77	2.20	0.45	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.85 - 1.00
IEKKRKILKR	DTDLEDELEPDPR	N-ter +28.03 Da	32.7	53.9	3	1570.78	2.12	0.42	PROC_MOUSE		Vitamin K-dependent protein C;	Anticoagulant protein C;Autoprothrombin IIA;Blood coagulation factor XIV;	0.85 - 1.00
PHKNMFTVNR	DTGVISVLTSGLDR	N-ter +28.03 Da	34.4	51.4	3	1459.86	1.66	0.68	CADH1_MOUSE		Cadherin-1;	ARC-1;Epithelial cadherin;Uvomorulin;	0.85 - 1.00
ASGVSLLEAL	DTILPPTRPTDKPLR	N-ter +34.06 Da, K +34.06 Da	23.4	56.8	4	1787.20	-1.89	0.21	EF1A2_MOUSE	B7ZBW3_MOUSE	Elongation factor 1-alpha 2;	Eukaryotic elongation factor 1 A-2;Statin-S1;	0.00 - 0.15
WGKMENGDFP	DTIQCADVHLVPR	N-ter +28.03 Da, C +57.02 Da	23.6	72.5	3	1550.90	2.34	0.20	O88301_MOUSE	Q91Y82_MOUSE			0.85 - 1.00
TAGKHGDSLR	DTKNEIAELTR	N-ter +28.03 Da, K +28.03 Da	41.9	48.2	3	1344.79	-0.54	0.10	K2C79_MOUSE		Keratin, type II cytoskeletal 79;	Cytokeratin-79;Keratin-79;Type-II keratin Kb38;	0.25 - 0.75
CPPETSKSRR	DTQSNELIEINPQTEGKVYTR	N-ter +28.03 Da, K +28.03 Da	44.4	60.1	4	2490.41	0.66	0.15	COGA1_MOUSE	A3KFV3_MOUSE	Collagen alpha-1(XVI) chain;		0.25 - 0.75
PEEYVSPNSE	DVGVEGPKGDPGPQGPR	N-ter +28.03 Da, K +28.03 Da	28.8	43.5	3	1716.95	-0.49	0.10	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.25 - 0.75
AS	DVLELTDENFESR	N-ter +28.03 Da	41.9	57.6	3	1593.84	0.55	0.09	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
LTKYKKTLLG	DVPVVADPTVPNVTVTR	N-ter +28.03 Da	52.1	52.2	3	1806.08	0.40	0.14	GDIR2_MOUSE		Rho GDP-dissociation inhibitor 2;	D4;Rho-GDI beta;	0.25 - 0.75
LVLILKGVQC	DVQLVESGGGLVQPGGSR	N-ter +28.03 Da	49.7	48.0	3	1782.01	-3.18	0.87	HVM16_MOUSE		Ig heavy chain V region MOPC 21;		0.00 - 0.15
SVGDGETVEF	DVVEGEKGAEAANVTGPDGVPVEGSR	N-ter +34.06 Da, K +34.06 Da	61.4	54.1	4	2606.49	-3.06	0.77	DBPA_MOUSE	F6TIF5_MOUSE	DNA-binding protein A;	Cold shock domain-containing protein A;Y-box protein 3;	0.00 - 0.15
RYAWVKRQLV	DYEEKYGR	N-ter +28.03 Da, K +28.03 Da	30.3	25.3	2	1114.56	2.86	0.48	VPS53_MOUSE	E9PXG9_MOUSE	Vacuolar protein sorting-associated protein 53 homolog;		0.85 - 1.00
LQREKEFKAK	EAAALGSHGSCSSEVEKETR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	42.1	58.1	4	2160.14	-0.64	0.16	VATG1_MOUSE		V-type proton ATPase subunit G 1;	V-ATPase 13 kDa subunit 1;Vacuolar proton pump subunit G 1;	0.25 - 0.75
VLHFGIAVLY	EACCVVLLLWLALFLSIQPR	N-ter +28.03 Da, C +57.02 Da	30.1	38.7	4	2428.43	3.19	0.50	MFS6L_MOUSE		Major facilitator superfamily domain-containing protein 6-like;		0.85 - 1.00
GTASTRRVTF	EADENENITVVKGIR	N-ter +28.03 Da, K +28.03 Da	28.8	50.4	3	1742.01	0.53	0.10	CHCH3_MOUSE	Q9D9P1_MOUSE	Coiled-coil-helix-coiled-coil-helix domain-containing protein 3, mitochondrial;		0.25 - 0.75
FDQTQIQEFK	EAFTVIDQNR	N-ter +34.06 Da	40.8	33.6	2	1225.69	-2.32	0.23	MLRS_MOUSE	F6ULR7_MOUSE	Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.00 - 0.15
DGSASGTTLL	EALDCILPPTRPTDKPLR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	36.9	60.0	4	2159.37	-1.79	0.12	EF1A1_MOUSE	D3YZ68_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.00 - 0.15
EGNASGVSLL	EALDTILPPTRPTDKPLR	N-ter +34.06 Da, K +34.06 Da	37.5	56.7	4	2100.38	-4.32	0.00	EF1A2_MOUSE	B7ZBW3_MOUSE	Elongation factor 1-alpha 2;	Eukaryotic elongation factor 1 A-2;Statin-S1;	0.00 - 0.15
KKQQEVVGFL	EANKIDFKELDIAGDEDNR	N-ter +28.03 Da, K +28.03 Da	31.4	77.3	4	2275.31	-0.86	0.20	SH3BG_MOUSE	F7ABS0_MOUSE	SH3 domain-binding glutamic acid-rich protein;		0.15 - 0.25
FEGRRSRRRR	EAPKVVEEQESR	N-ter +34.06 Da, K +34.06 Da	44.2	45.0	3	1467.89	-0.52	0.07	CO4B_MOUSE		Complement C4-B;		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
GTEAAAATVF	EAVPMSMPPILR	N-ter +28.03 Da	25.1	47.2	3	1367.80	0.53	0.10	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
VRSLTMVEDN	EDDDEDGEELLHHHR	N-ter +28.03 Da	41.6	62.9	4	1872.91	2.84	0.70	LMNA_MOUSE		Prelamin-A/C;		0.85 - 1.00
LGTPRLGVQG	EDGLDFPEYDGVDR	N-ter +34.06 Da	37.9	49.2	3	1659.83	-0.32	0.06	CASQ1_MOUSE	E9Q489_MOUSE	Calsequestrin-1;	Calsequestrin, skeletal muscle isoform;	0.25 - 0.75
GTDIFTGKKY	EDICPSTHNMDVPNIKR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	46.2	61.4	4	2081.13	-1.47	0.33	IF5A1_MOUSE	IF5A2_MOUSE	Eukaryotic translation initiation factor 5A-1;	Eukaryotic initiation factor 5A isoform 1;eIF-4D;	0.15 - 0.25
PKLPGRVAFG	EDIDLPETFDAR	N-ter +28.03 Da	36.5	48.6	3	1447.75	2.11	0.31	CATB_MOUSE		Cathepsin B;	Cathepsin B1;	0.85 - 1.00
GATALLTHGQ	EDIPEVSCIHNGLR	N-ter +34.06 Da, C +57.02 Da	52.6	44.5	3	1671.92	-0.94	0.16	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.15 - 0.25
TLTAVHDAIL	EDLVFPSEIVGKR	N-ter +28.03 Da, K +28.03 Da	48.3	53.0	3	1543.94	1.25	0.24	RS7_MOUSE	F6SVV1_MOUSE	40S ribosomal protein S7;		0.75 - 0.85
RKLVRSLTMV	EDNEDDDEDGEELLHHHR	N-ter +34.06 Da	51.7	63.7	4	2237.07	-2.18	0.60	LMNA_MOUSE		Prelamin-A/C;		0.00 - 0.15
LGTLPARAAH	EDPVEKVIEGFSR	N-ter +28.03 Da, K +28.03 Da	27.3	53.0	3	1559.90	0.33	0.01	SBSN_MOUSE	E9QPB2_MOUSE	Suprabasin;		0.25 - 0.75
LCCLVPSFLA	EDVQETDTSQKDQSPASHEIATNLGDFAISLYR	N-ter +34.06 Da, K +34.06 Da	50.6	50.0	4	3733.03	-2.12	1.57	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	39.8	53.6	4	3369.84	-1.40	0.44	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
LAKYNQLMRI	EEALGDKAVFAGR	N-ter +34.06 Da, K +34.06 Da	21.8	44.4	3	1429.88	-5.06	1.69	ENOB_MOUSE		Beta-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 3;Muscle-specific enolase;Skeletal muscle enolase;	0.00 - 0.15
IDSHFEARKK	EEEELIALKER	N-ter +28.03 Da, K +28.03 Da	31.5	50.3	3	1413.84	-1.84	0.26	TNNT3_MOUSE	A2A6J0_MOUSE	Troponin T, fast skeletal muscle;	Fast skeletal muscle troponin T;	0.00 - 0.15
SFYNELRVAP	EEHPTLLTEAPLNPKANR	N-ter +28.03 Da, K +28.03 Da	43.0	55.6	4	2085.24	-1.32	0.17	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.15 - 0.25
TFYNELRVAP	EEHPVLLTEAPLNPKANR	N-ter +28.03 Da, K +28.03 Da	31.8	57.8	4	2083.26	1.58	0.15	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.75 - 0.85
MPCKI	EEIKDFLLTAR	N-ter +28.03 Da, K +28.03 Da	25.6	57.4	3	1389.87	-5.64	0.00	RL38_MOUSE		60S ribosomal protein L38;		0.00 - 0.15
QQQFVEGVRM	EEIVEGCTGALHILAR	N-ter +28.03 Da, C +57.02 Da	30.3	41.3	3	1795.00	0.65	0.08	CTNB1_MOUSE	PLAK_MOUSE	Catenin beta-1;	Beta-catenin;	0.25 - 0.75
WWNPPQEKTI	EEQLDEEHLESHR	N-ter +28.03 Da	28.6	67.8	4	1677.87	0.12	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
PPSVGVADKK	EETQPPVALKKEGIR	N-ter +28.03 Da, K +28.03 Da	17.6	49.0	4	1778.12	-0.34	0.04	PAIRB_MOUSE		Plasminogen activator inhibitor 1 RNA-binding protein;	PAI1 RNA-binding protein 1;SERPINE1 mRNA-binding protein 1;	0.25 - 0.75
ERGNPVIAQW	EEVEDASEEAPLR	N-ter +34.06 Da	47.0	44.6	3	1506.79	3.66	0.55	SRCA_MOUSE		Sarcalumenin;		0.85 - 1.00
FRHACVPVDF	EEVHVSSNADEEDIR	N-ter +28.03 Da	67.4	50.7	3	1755.88	-0.12	0.03	IDHG1_MOUSE	Q3TKM5_MOUSE	Isocitrate dehydrogenase [NAD] subunit gamma 1, mitochondrial;	Isocitric dehydrogenase subunit gamma;NAD(+)-specific ICDH subunit gamma;	0.25 - 0.75
TEEHHLRDYF	EEYGKIDTIEIITDR	N-ter +28.03 Da, K +28.03 Da	34.4	47.8	3	1850.06	-1.06	0.15	ROA2_MOUSE	F6U106_MOUSE	Heterogeneous nuclear ribonucleoproteins A2/B1;		0.15 - 0.25
EVTDRAYTGR	EFDDLPLAEQR	N-ter +28.03 Da	23.8	62.1	3	1359.75	-0.23	0.01	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
FSMFDQTQIQ	EFKEAFTVIDQNR	N-ter +34.06 Da, K +34.06 Da	44.0	48.5	3	1664.00	-0.49	0.13	MLRS_MOUSE	F6ULR7_MOUSE	Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.25 - 0.75
RLSLESEGAN	EGATAAPELSALEEAFRR	N-ter +28.03 Da	26.5	52.0	3	1945.09	0.57	0.17	TPPP_MOUSE		Tubulin polymerization-promoting protein;		0.25 - 0.75
RLSLESEGAN	EGATAAPELSALEEAFR	N-ter +28.03 Da	35.9	47.8	3	1788.98	1.75	0.58	TPPP_MOUSE		Tubulin polymerization-promoting protein;		0.85 - 1.00
IIRNVKGPVQ	EGDVLTLLESER	N-ter +28.03 Da	42.3	58.3	2	1387.80	1.38	0.13	RS28_MOUSE	D3YVD9_MOUSE	40S ribosomal protein S28;		0.75 - 0.85
SYFPRGLKYR	EGGVESAFHKTTSGATPAAIR	N-ter +28.03 Da, K +28.03 Da	32.3	57.6	4	2142.23	0.75	0.11	Q99LB4_MOUSE	D3YZN3_MOUSE			0.25 - 0.75
GVSESQASDS	EGHSDFSEGQAVGAHR	N-ter +28.03 Da	49.6	67.4	4	1710.89	1.36	0.31	F7BVV1_MOUSE	FILA_MOUSE			0.75 - 0.85
AGSAIHWREP	EGKEVWDYVTVR	N-ter +28.03 Da, K +28.03 Da	39.3	55.0	3	1535.88	-0.49	0.01	RISC_MOUSE	Q3U5P4_MOUSE	Retinoid-inducible serine carboxypeptidase;	Serine carboxypeptidase 1;	0.25 - 0.75
RFMQTFVLAP	EGSVANKFYVHNDIFR	N-ter +28.03 Da, K +28.03 Da	27.6	59.2	4	1951.11	1.01	0.13	G3BP1_MOUSE	Q3UR88_MOUSE	Ras GTPase-activating protein-binding protein 1;	ATP-dependent DNA helicase VIII;GAP SH3 domain-binding protein 1;HDH-VIII;	0.75 - 0.85
KKAGHPFMWN	EHLGYVLTCPSNLGTGLR	N-ter +28.03 Da, C +57.02 Da	54.0	44.3	3	2014.12	-0.97	0.21	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.15 - 0.25
MNHHLLLKQF	EHLNHQNPNTFESR	N-ter +28.03 Da	25.1	63.6	4	1749.93	1.46	0.45	NUCB2_MOUSE		Nucleobindin-2;	DNA-binding protein NEFA;	0.75 - 0.85
FYNELRVAPE	EHPTLLTEAPLNPKANR	N-ter +28.03 Da, K +28.03 Da	25.1	51.8	4	1956.18	-0.18	0.02	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.25 - 0.75
CLLHEKTPVS	EHVTKCCSGSLVER	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	35.5	53.0	3	1716.92	2.94	0.54	ALBU_MOUSE		Serum albumin;		0.85 - 1.00
RKLPFQRLVR	EIAQDFKTDLR	N-ter +28.03 Da, K +28.03 Da	26.2	54.5	3	1390.82	-0.18	0.02	H31_MOUSE	H32_MOUSE	Histone H3.1;		0.25 - 0.75
FILKARSTVR	EIDPQNDLTFLR	N-ter +28.03 Da	29.0	55.1	3	1487.84	0.60	0.06	DLRB1_MOUSE	A2AVR9_MOUSE	Dynein light chain roadblock-type 1;	Dynein light chain 2A, cytoplasmic;	0.25 - 0.75
MGYMMAKKHL	EINPDHPIVETLR	N-ter +28.03 Da	48.3	54.6	3	1559.92	-0.52	0.04	HS90B_MOUSE	Q71LX8_MOUSE	Heat shock protein HSP 90-beta;	Heat shock 84 kDa;Tumor-specific transplantation 84 kDa antigen;	0.25 - 0.75
IILLFDAHKL	EISDEFSEAIGALR	N-ter +28.03 Da	27.1	55.1	3	1563.86	-1.09	0.14	EHD2_MOUSE	Q8R2X0_MOUSE	EH domain-containing protein 2;		0.15 - 0.25
GEATWSGSEF	EISFPDSPGAQAQADHLPR	N-ter +28.03 Da	54.5	44.4	3	2063.10	0.59	0.13	GORS1_MOUSE		Golgi reassembly-stacking protein 1;	Golgi peripheral membrane protein p65;Golgi reassembly-stacking protein of 65 kDa;	0.25 - 0.75
YPGIADRMQK	EITALAPSTMKIKIIAPPER	N-ter +28.03 Da, K +28.03 Da	40.5	61.5	4	2262.48	4.85	1.18	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.85 - 1.00
KMGLQVLATI	EKIPFESAFR	N-ter +28.03 Da, K +28.03 Da	34.5	53.3	3	1278.77	0.98	0.08	FACR2_MOUSE		Fatty acyl-CoA reductase 2;	Male sterility domain-containing protein 1;	0.75 - 0.85
NLVKTNCDLY	EKLGEYGFQNAILVR	N-ter +28.03 Da, K +28.03 Da	49.2	38.3	3	1792.06	-0.32	0.03	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
LLAVLPTTTA	EKNGIDIYSLTVDSR	N-ter +28.03 Da, K +28.03 Da	39.2	61.3	3	1765.03	0.57	0.03	Q9DBK8_MOUSE	Q8C7G9_MOUSE			0.25 - 0.75
KLPSLAFLYM	EKNQLEEVPSALPR	N-ter +28.03 Da, K +28.03 Da	38.4	38.1	3	1664.97	-1.32	0.20	PRELP_MOUSE		Prolargin;	Proline-arginine-rich end leucine-rich repeat protein;	0.15 - 0.25
MEVKVQKSSK	ELEDMNQKLFDLR	N-ter +28.03 Da, K +28.03 Da	35.4	49.9	3	1705.96	-0.89	0.13	TNNI2_MOUSE	A2A6K0_MOUSE	Troponin I, fast skeletal muscle;	Troponin I, fast-twitch isoform;	0.15 - 0.25
KDKSGFIEED	ELGSILKGFSSDAR	N-ter +28.03 Da, K +28.03 Da	25.4	46.4	3	1534.91	-1.47	0.29	PRVA_MOUSE		Parvalbumin alpha;		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
FYSNKEIFLR	ELISNASDALDKIR	N-ter +28.03 Da, K +28.03 Da	51.1	46.6	3	1599.96	0.79	0.14	HS90B_MOUSE	ENPL_MOUSE	Heat shock protein HSP 90-beta;	Heat shock 84 kDa;Tumor-specific transplantation 84 kDa antigen;	0.25 - 0.75
LTPKKYEGGR	ELNDFISYLQR	N-ter +28.03 Da	31.4	51.5	3	1424.80	-0.22	0.05	PDIA3_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
ASSSSLEKSY	ELPDGQVITIGNER	N-ter +28.03 Da	32.9	46.3	3	1567.89	0.91	0.08	ACTB_MOUSE	ACTA_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.25 - 0.75
EGAEPMGYSA	ELSSEGILDDRNEEKR	N-ter +28.03 Da, K +28.03 Da	27.6	62.0	4	1945.10	-0.97	0.08	EZRI_MOUSE		Ezrin;	Cytovillin;Villin-2;p81;	0.15 - 0.25
NVFGKESKKK	ELVNNLGEIYQKIER	N-ter +28.03 Da, K +28.03 Da	39.0	39.3	3	1873.10	-0.58	0.05	EHD1_MOUSE	F6Y7R7_MOUSE	EH domain-containing protein 1;	PAST homolog 1;	0.25 - 0.75
LGQQLNLNLL	ENWDTLGSTVSQLQER	N-ter +28.03 Da	45.5	48.1	3	1890.00	2.09	0.42	APOA1_MOUSE	Q8BPD5_MOUSE	Apolipoprotein A-I;	Apolipoprotein A1;	0.85 - 1.00
DKLCAIPNLR	ENYGELADCCTKQEPER	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	45.2	40.8	3	2154.02	3.44	0.75	ALBU_MOUSE		Serum albumin;		0.85 - 1.00
FSAGSAIHWR	EPEGKEVWDYVTVR	N-ter +28.03 Da, K +28.03 Da	12.5	51.4	3	1761.98	0.06	0.01	RISC_MOUSE	Q3U5P4_MOUSE	Retinoid-inducible serine carboxypeptidase;	Serine carboxypeptidase 1;	0.25 - 0.75
KDCKEPKRER	EQCCYNCGKPGHLAR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	25.6	65.0	4	1904.97	-0.36	0.18	CNBP_MOUSE	D3YYF6_MOUSE	Cellular nucleic acid-binding protein;	Zinc finger protein 9;	0.25 - 0.75
LLWAAACAQS	EQDFYDFKAVNIR	N-ter +28.03 Da, K +28.03 Da	28.8	52.3	3	1699.95	-0.62	0.11	GPX7_MOUSE	E9PVY3_MOUSE	Glutathione peroxidase 7;		0.25 - 0.75
LIWDNGMVLG	EQEVSDNELQELSTQGSR	N-ter +34.06 Da	61.1	43.6	3	2082.08	2.10	0.48	CLUS_MOUSE	E9Q9B8_MOUSE	Clusterin;	Apolipoprotein J;Clustrin;Sulfated glycoprotein 2;	0.85 - 1.00
KGKSCRTITF	EQFQEALEELAKKR	N-ter +28.03 Da, K +28.03 Da	32.6	66.4	4	1802.11	-0.30	0.07	TPPP_MOUSE		Tubulin polymerization-promoting protein;		0.25 - 0.75
TLFQPSFIGM	ESAGIHETTYNSIMKCDIDIR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	39.2	54.9	4	2508.34	0.77	0.17	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
LQVFRQFVRH	ESEVASSLVLER	N-ter +28.03 Da	41.4	30.9	2	1345.75	3.98	0.76	SSBP_MOUSE	Q8R2K3_MOUSE	Single-stranded DNA-binding protein, mitochondrial;		0.85 - 1.00
VSEAGPAGAG	ESKCPLMVKVLDAVR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	24.5	62.5	4	1846.24	0.65	0.03	TTHY_MOUSE		Transthyretin;	Prealbumin;	0.25 - 0.75
LSIFVGSCFS	ESPTKVQLVGGAHR	N-ter +28.03 Da, K +28.03 Da	22.2	60.9	4	1533.96	0.16	0.04	CD5L_MOUSE		CD5 antigen-like;	Apoptosis inhibitor expressed by macrophages;Apoptosis inhibitory 6;CT-2;SP-alpha;	0.25 - 0.75
ADRQGRRGVS	ESQASDSEGHSDFSEGQAVGAHR	N-ter +28.03 Da	57.0	65.9	4	2415.19	-0.56	0.25	E9Q019_MOUSE	F7BVV1_MOUSE			0.25 - 0.75
GRYTDATSKY	ESVMKTEPSVAEYTVR	N-ter +28.03 Da, K +28.03 Da	34.2	48.8	3	1881.05	-0.43	0.07	DNJC3_MOUSE		DnaJ homolog subfamily C member 3;	Interferon-induced, double-stranded RNA-activated protein kinase inhibitor;Protein kinase inhibitor of 58 kDa;	0.25 - 0.75
HAFGQGRDMA	ETFDQGAHHAFGQGGR	N-ter +28.03 Da	34.2	61.0	4	1741.90	0.33	0.08	SBSN_MOUSE	E9QPB2_MOUSE	Suprabasin;		0.25 - 0.75
GPAGKNGDRG	ETGPAGPAGPIGPAGAR	N-ter +34.06 Da	40.5	41.3	3	1508.88	0.26	0.04	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.25 - 0.75
LPTFSSLNLR	ETNLESLPLVDTHSKR	N-ter +28.03 Da, K +28.03 Da	19.6	59.8	4	1894.13	0.63	0.05	VIME_MOUSE	E9PZV5_MOUSE	Vimentin;		0.25 - 0.75
RRSGRLLTRW	ETTSSIPEAGEGQIR	N-ter +34.06 Da	40.3	44.6	3	1607.89	0.43	0.08	ISCA2_MOUSE		Iron-sulfur cluster assembly 2 homolog, mitochondrial;	HESB-like domain-containing protein 1;	0.25 - 0.75
VQGRDSRLVL	EVAQHLGESTVR	N-ter +28.03 Da	34.4	47.8	3	1352.77	0.54	0.03	ATPB_MOUSE		ATP synthase subunit beta, mitochondrial;		0.25 - 0.75
LASLLLSGQA	EVEDASEEAPLR	N-ter +28.03 Da	31.7	51.2	3	1371.72	0.71	0.07	SRCA_MOUSE		Sarcalumenin;		0.25 - 0.75
FSRGLSNAER	EVGKALEGINNGITQAGR	N-ter +28.03 Da, K +28.03 Da	54.9	36.1	3	1882.10	-1.18	0.16	SBSN_MOUSE	E9QPB2_MOUSE	Suprabasin;		0.15 - 0.25
LAPSLWLHRF	EVIDDLNHWDHATKLR	N-ter +28.03 Da, K +28.03 Da	32.0	70.1	4	2017.18	-0.20	0.02	APRV1_MOUSE		Retroviral-like aspartic protease 1;	Skin-specific retroviral-like aspartic protease;TPA-inducible aspartic proteinase-like protein;	0.25 - 0.75
LTKLPGYPVK	EVKCDMEVSCPEGYTCCR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	45.1	47.6	3	2347.12	0.99	0.36	GRN_MOUSE	Q3U9N4_MOUSE	Granulins;	PC cell-derived growth factor;Proepithelin;	0.75 - 0.85
GAGFRPKVKR	EVKVDCSEYLALSKR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	36.2	60.6	4	1880.12	-0.71	0.07	Q148R4_MOUSE	Q8BM18_MOUSE			0.25 - 0.75
GAGFRPKVKR	EVKVDCSEYLALSK	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	33.9	80.1	3	1724.05	-0.32	0.04	Q8BM18_MOUSE	Q148R4_MOUSE			0.25 - 0.75
VLMDIFQVKA	EVLDMAENAFDDEYLKCKSR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	61.3	58.4	4	2516.34	-0.43	0.15	NAR3_MOUSE	E9Q1U7_MOUSE	Ecto-ADP-ribosyltransferase 3;	Mono(ADP-ribosyl)transferase 3;NAD(P)(+)--arginine ADP-ribosyltransferase 3;	0.25 - 0.75
HCSPSVGSLS	EVQALVAGKPNMTR	N-ter +28.03 Da, K +28.03 Da	26.6	62.6	3	1568.97	-2.47	0.55	BTBD7_MOUSE		BTB/POZ domain-containing protein 7;		0.00 - 0.15
LMAVVIGINS	EVQLQQSGAELVR	N-ter +34.06 Da	31.2	39.4	3	1489.89	-0.74	0.12	HVM02_MOUSE		Ig heavy chain V region 93G7;		0.25 - 0.75
VNNMSFVKYK	EVYAAAAEVLGLILQYITER	N-ter +34.06 Da	22.6	18.5	4	2255.30	-0.36	0.05	PRKDC_MOUSE		DNA-dependent protein kinase catalytic subunit;	p460;	0.25 - 0.75
TFQQMWISKQ	EYDEAGPSIVHR	N-ter +28.03 Da	51.6	56.5	3	1399.75	-0.43	0.05	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
ASRVLVASRN	FANDATFEIKKCDLHR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	32.0	59.0	4	2066.27	1.65	0.27	ODPA_MOUSE		Pyruvate dehydrogenase E1 component subunit alpha, somatic form, mitochondrial;	PDHE1-A type I;	0.85 - 1.00
LLTQPGDWTL	FAPTNDAFKGMTSEER	N-ter +28.03 Da, K +28.03 Da	29.6	52.2	3	1855.97	-0.18	0.04	POSTN_MOUSE		Periostin;	Osteoblast-specific factor 2;	0.25 - 0.75
SLGRDGHFTL	FAPTNEAFEKLPR	N-ter +28.03 Da, K +28.03 Da	23.3	50.0	3	1574.92	0.20	0.02	POSTN_MOUSE		Periostin;	Osteoblast-specific factor 2;	0.25 - 0.75
LDYVMAAANL	FAQTYGLTGSQDR	N-ter +28.03 Da	37.0	48.6	3	1470.78	0.26	0.05	UBA1_MOUSE		Ubiquitin-like modifier-activating enzyme 1;	Ubiquitin-activating enzyme E1;Ubiquitin-activating enzyme E1 X;Ubiquitin-like modifier-activating enzyme 1 X;	0.25 - 0.75
GTWKLVSSEN	FDDYMKEVGVGFATR	N-ter +28.03 Da, K +28.03 Da	25.8	50.9	3	1789.96	-0.49	0.09	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
EIFDKARVLF	FDELDSIAKAR	N-ter +28.03 Da, K +28.03 Da	19.7	50.0	3	1319.77	1.77	0.29	TERA_MOUSE		Transitional endoplasmic reticulum ATPase;	15S Mg(2+)-ATPase p97 subunit;Valosin-containing protein;	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
ESEKVKITKV	FDFAGEEVR	N-ter +34.06 Da	25.4	49.3	2	1102.61	0.06	0.01	CFDP1_MOUSE		Craniofacial development protein 1;	27 kDa craniofacial protein;Bucentaur;Protein Cp27;	0.25 - 0.75
MVNPTVF	FDITADDEPLGR	N-ter +34.06 Da	32.6	44.3	3	1381.76	2.04	0.40	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	41.0	48.3	3	1759.90	-3.47	1.16	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	FDKPVSPLLTAAGMAR	N-ter +28.03 Da, K +28.03 Da	36.2	44.3	3	1729.04	0.71	0.10	KCRU_MOUSE	A2ARP5_MOUSE	Creatine kinase U-type, mitochondrial;	Acidic-type mitochondrial creatine kinase;Ubiquitous mitochondrial creatine kinase;	0.25 - 0.75
SYTYLSLGFF	FDRDDVALEGVGHFFR	N-ter +28.03 Da	58.0	78.7	4	1907.08	3.09	0.46	FRIL1_MOUSE	FRIL2_MOUSE	Ferritin light chain 1;	Ferritin L subunit 1;	0.85 - 1.00
TEGVKGAKNF	FEAKVQAINVSSR	N-ter +28.03 Da, K +28.03 Da	30.3	45.4	3	1503.91	0.21	0.04	EFHD2_MOUSE	Q8C845_MOUSE	EF-hand domain-containing protein D2;	Swiprosin-1;	0.25 - 0.75
TGAEQQVSLT	FEDVAVLFTR	N-ter +28.03 Da	29.3	70.4	2	1223.74	4.48	0.73	Z354A_MOUSE	Z354B_MOUSE	Zinc finger protein 354A;	Kidney, ischemia, and developmentally-regulated protein 1;Renal transcription factor Kid-1;Transcription factor 17;	0.85 - 1.00
DTEEYNLRDY	FEKYGKIETIEVMEDR	N-ter +34.06 Da, K +34.06 Da	28.7	58.7	4	2088.29	-0.86	0.08	ROA3_MOUSE	A2AL12_MOUSE	Heterogeneous nuclear ribonucleoprotein A3;		0.15 - 0.25
GTVSSRITKH	FELKHLSSGDLLR	N-ter +28.03 Da, K +28.03 Da	30.6	65.2	4	1569.99	-1.25	0.27	KAD3_MOUSE		GTP:AMP phosphotransferase, mitochondrial;	Adenylate kinase 3;Adenylate kinase 3 alpha-like 1;	0.15 - 0.25
RRSRGFAFVY	FENVDDAKEAKER	N-ter +34.06 Da, K +34.06 Da	20.6	46.3	4	1652.00	-1.52	0.26	TRA2B_MOUSE	F8WJG3_MOUSE	Transformer-2 protein homolog beta;	Silica-induced gene 41 protein;Splicing factor, arginine/serine-rich 10;Transformer-2 protein homolog B;	0.00 - 0.15
LSCIAMMCNE	FFEGCPDKEPR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	24.3	63.3	3	1436.77	0.51	0.07	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;	0.25 - 0.75
EDRDQGAPGP	FGDEKEDAGPGQQEAAR	N-ter +34.06 Da, K +34.06 Da	24.7	67.6	3	1872.06	-3.18	0.29	USBP1_MOUSE		Usher syndrome type-1C protein-binding protein 1;		0.00 - 0.15
GGPKLPGRVA	FGEDIDLPETFDAR	N-ter +28.03 Da	31.0	53.5	3	1651.86	1.29	0.25	CATB_MOUSE		Cathepsin B;	Cathepsin B1;	0.75 - 0.85
DEKLKKRKER	FGIVTSSAGTGTTEDTEAKKR	N-ter +34.06 Da, K +34.06 Da	51.3	52.1	4	2257.38	-0.84	0.16	SARNP_MOUSE		SAP domain-containing ribonucleoprotein;	Nuclear protein Hcc-1;	0.15 - 0.25
SGFLAGRFSL	FGLGSEPAAGEAEVASDGGTVDLR	N-ter +28.03 Da	79.6	44.5	3	2332.22	-0.20	0.02	IMPA3_MOUSE		Inositol monophosphatase 3;	Golgi 3-prime phosphoadenosine 5-prime phosphate 3-prime phosphatase;Inositol monophosphatase domain-containing protein 1;Inositol-1(or 4)-monophosphatase 3;Myo-inositol monophosphatase A3;	0.25 - 0.75
EQALEDHFSS	FGPISEVVVVKDR	N-ter +28.03 Da, K +28.03 Da	36.3	48.8	3	1499.94	0.07	0.01	RBM3_MOUSE	Q8BG13_MOUSE	Putative RNA-binding protein 3;	RNA-binding motif protein 3;	0.25 - 0.75
QYREVAAFAQ	FGSDLDAATQQLLSR	N-ter +28.03 Da	30.6	59.0	3	1648.94	0.72	0.11	ATPA_MOUSE	D3Z6F5_MOUSE	ATP synthase subunit alpha, mitochondrial;		0.25 - 0.75
TQICPNNLVA	FHDFSSDLENVPHLR	N-ter +28.03 Da	39.0	66.9	4	1840.01	3.13	0.86	PRELP_MOUSE		Prolargin;	Proline-arginine-rich end leucine-rich repeat protein;	0.85 - 1.00
PVNGSSMQSL	FIEEIHSVSAKNR	N-ter +28.03 Da, K +28.03 Da	23.6	65.3	4	1584.97	0.48	0.07	SKT_MOUSE	E9QAU4_MOUSE	Sickle tail protein;	Enhancer trap locus 4;	0.25 - 0.75
AAEGFKGKIL	FIFIDSDHTDNQR	N-ter +28.03 Da	45.4	57.4	3	1634.86	2.05	0.35	PDIA1_MOUSE		Protein disulfide-isomerase;	Cellular thyroid hormone-binding protein;Endoplasmic reticulum resident protein 59;Prolyl 4-hydroxylase subunit beta;p55;	0.85 - 1.00
EQLNVINGIL	FIPLSQKDLENLKAEVAR	N-ter +28.03 Da, K +28.03 Da	25.1	55.7	4	2154.36	3.04	0.81	K0664_MOUSE		Protein KIAA0664;		0.85 - 1.00
SMFDQTQIQE	FKEAFTVIDQNR	N-ter +28.03 Da, K +28.03 Da	47.3	51.1	3	1522.89	-0.29	0.06	MLRS_MOUSE	F6ULR7_MOUSE	Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.25 - 0.75
VARGKLHVLL	FKEETEIPAR	N-ter +28.03 Da, K +28.03 Da	38.1	50.1	3	1274.75	2.56	0.59	PRDBP_MOUSE		Protein kinase C delta-binding protein;	Cavin-3;Serum deprivation response factor-related gene product that binds to C-kinase;	0.85 - 1.00
AQQKLPLPAL	FKLDNQDFGDHATLKR	N-ter +28.03 Da, K +28.03 Da	20.8	35.0	4	1988.12	-2.64	0.33	A2AP_MOUSE	Q5ND35_MOUSE	Alpha-2-antiplasmin;	Alpha-2-plasmin inhibitor;Serpin F2;	0.00 - 0.15
PEGKGTIKKQ	FLEELLTTQCDR	N-ter +28.03 Da, C +57.02 Da	24.7	87.1	3	1551.90	-0.97	0.08	MLRS_MOUSE		Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.15 - 0.25
HAQLAYCVVQ	FLEKDTTLTEPVIR	N-ter +28.03 Da, K +28.03 Da	27.3	28.4	3	1717.01	-0.17	0.02	2A5A_MOUSE	F6VYL0_MOUSE	Serine/threonine-protein phosphatase 2A 56 kDa regulatory subunit alpha isoform;	PP2A B subunit isoform B'-alpha;PP2A B subunit isoform B56-alpha;PP2A B subunit isoform PR61-alpha;PP2A B subunit isoform R5-alpha;	0.25 - 0.75
NSIIYGLQYL	FLEPNPEDPLNKEAAEVLQNNR	N-ter +28.03 Da, K +28.03 Da	31.2	51.7	4	2592.45	2.50	0.33	UBC12_MOUSE	F7CDT0_MOUSE	NEDD8-conjugating enzyme Ubc12;	NEDD8 carrier protein;NEDD8 protein ligase;Ubiquitin-conjugating enzyme E2 M;	0.85 - 1.00
LGFGNNLNYN	FLETLALENHGLAR	N-ter +28.03 Da	50.1	47.1	3	1610.95	-0.07	0.01	ITIH3_MOUSE	E9PVS1_MOUSE	Inter-alpha-trypsin inhibitor heavy chain H3;		0.25 - 0.75
LAQNERCLHM	FLQDEIIDKSYTPSKIR	N-ter +28.03 Da, K +28.03 Da	30.4	58.0	4	2136.31	-0.01	0.00	SNX3_MOUSE	Q78ZM0_MOUSE	Sorting nexin-3;	SDP3 protein;	0.25 - 0.75
FALYKPVTDL	FLQLVDSGKVDEAR	N-ter +28.03 Da, K +28.03 Da	33.6	46.7	3	1631.96	-0.92	0.09	LPPRC_MOUSE		Leucine-rich PPR motif-containing protein, mitochondrial;	130 kDa leucine-rich protein;	0.15 - 0.25
VFGVCHIFAS	FNDTFVHVTDLSGKETICR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	41.0	67.3	4	2294.29	0.15	0.03	RS14_MOUSE	D3YVF4_MOUSE	40S ribosomal protein S14;		0.25 - 0.75
EEFDARWVTY	FNKPDIDAWELR	N-ter +34.06 Da, K +34.06 Da	34.3	54.2	3	1570.96	-0.97	0.23	COX5A_MOUSE		Cytochrome c oxidase subunit 5A, mitochondrial;	Cytochrome c oxidase polypeptide Va;	0.15 - 0.25
SKGHVEYEPK	FNQEVQKGLQDR	N-ter +28.03 Da, K +28.03 Da	18.5	114.6	4	1516.97	-0.97	0.08	GGT5_MOUSE	Q8C7B4_MOUSE	Gamma-glutamyltransferase 5;	Gamma-glutamyl leukotrienase;Gamma-glutamyltransferase-like activity 1;Gamma-glutamyltranspeptidase 5;	0.15 - 0.25
GDKGDQGLAG	FPGSPGEKGEKGSAGTPGMPGSPGPR	N-ter +28.03 Da, K +28.03 Da	24.4	23.7	4	2522.32	0.86	0.13	CO4A1_MOUSE		Collagen alpha-1(IV) chain;		0.25 - 0.75
EAASGALSMF	FQGEETENEENLSSEKAGLDKR	N-ter +28.03 Da, K +28.03 Da	45.0	61.5	4	2593.41	2.27	0.60	A2AIX1_MOUSE	E9QAT4_MOUSE			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
IILYEQHGFA	FQSGQVLSALPR	N-ter +34.06 Da	23.7	43.9	3	1335.83	-0.74	0.09	CBPB2_MOUSE		Carboxypeptidase B2;	Carboxypeptidase R;Carboxypeptidase U;Thrombin-activable fibrinolysis inhibitor;	0.25 - 0.75
ELNGKLTGMA	FRVPTPNVSVVDLTCR	N-ter +28.03 Da, C +57.02 Da	47.4	56.2	3	1887.11	1.57	0.21	G3P_MOUSE	G3PT_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.75 - 0.85
QASDSEGHSD	FSEGQAVGAHR	N-ter +28.03 Da	32.0	52.9	3	1185.65	3.51	0.85	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.85 - 1.00
VLRPPGGGSN	FSLGFDEPAEQPVR	N-ter +28.03 Da	35.7	48.6	3	1618.88	0.03	0.00	HN1_MOUSE		Hematological and neurological expressed 1 protein;		0.25 - 0.75
QLQDMGLIDL	FSPEKSQLPGIVAGGR	N-ter +28.03 Da, K +28.03 Da	24.6	45.1	3	1698.02	0.63	0.14	ANT3_MOUSE		Antithrombin-III;	Serpin C1;	0.25 - 0.75
MIASHMIACL	FTELNQNQVQKVDQYLYHMR	N-ter +28.03 Da, K +28.03 Da	50.6	75.6	4	2609.50	1.38	0.22	HXK2_MOUSE		Hexokinase-2;	Hexokinase type II;	0.75 - 0.85
VLLFIDNIFR	FTQAGSEVSALLGR	N-ter +28.03 Da	48.1	42.6	3	1462.84	0.25	0.02	ATPB_MOUSE		ATP synthase subunit beta, mitochondrial;		0.25 - 0.75
PGAHLIVKKI	FVGGIKEDTEEHHLR	N-ter +34.06 Da, K +34.06 Da	23.8	66.0	4	1834.12	-2.64	0.83	ROA1_MOUSE	ROA2_MOUSE	Heterogeneous nuclear ribonucleoprotein A1;	HDP-1;Helix-destabilizing protein;Single-strand-binding protein;Topoisomerase-inhibitor suppressed;hnRNP core protein A1;	0.00 - 0.15
RYLSPKYIKM	FVLDEADEMLSR	N-ter +28.03 Da	50.7	51.6	3	1451.77	0.61	0.12	IF4A1_MOUSE	IF4A2_MOUSE	Eukaryotic initiation factor 4A-I;	ATP-dependent RNA helicase eIF4A-1;	0.25 - 0.75
RTSTSAVPNL	FVPLNTNPKEVQEMR	N-ter +28.03 Da, K +28.03 Da	30.1	46.0	3	1857.07	0.04	0.01	ADDA_MOUSE	E9Q1K3_MOUSE	Alpha-adducin;	Erythrocyte adducin subunit alpha;	0.25 - 0.75
LNTSFKHFIF	FVQEFNLIDRR	N-ter +28.03 Da	22.8	52.9	3	1463.87	0.74	0.12	MOL1A_MOUSE	MOL1B_MOUSE	MOB kinase activator 1B;	Mob1 homolog 1A;Mps one binder kinase activator-like 1A;	0.25 - 0.75
HRDDGLADLL	FVSSGPTNASAFTER	N-ter +28.03 Da	40.2	48.7	3	1597.85	-0.92	0.10	MAP4_MOUSE	E9QPW8_MOUSE	Microtubule-associated protein 4;		0.15 - 0.25
GMRSRGRGFQ	FVSSSLPDICYR	N-ter +28.03 Da, C +57.02 Da	24.2	59.4	3	1470.81	-0.38	0.02	CNBP_MOUSE	D3YYF6_MOUSE	Cellular nucleic acid-binding protein;	Zinc finger protein 9;	0.25 - 0.75
NFDYDHDAFL	GAEEAKSFDQLTPEESKER	N-ter +28.03 Da, K +28.03 Da	27.7	61.1	4	2234.24	0.65	0.09	CALU_MOUSE	Q6XLQ8_MOUSE	Calumenin;	Crocalbin;	0.25 - 0.75
NNWAKGHYTE	GAELVDSVLDVVR	N-ter +28.03 Da	34.1	46.4	3	1398.84	-0.74	0.16	TBB2C_MOUSE	TBB2A_MOUSE	Tubulin beta-4B chain;	Tubulin beta-2C chain;	0.25 - 0.75
NPLKNSGIEN	GAFQGLKSLSYIR	N-ter +28.03 Da, K +28.03 Da	28.0	47.2	3	1494.93	0.12	0.00	PGS2_MOUSE		Decorin;	Bone proteoglycan II;PG-S2;PG40;	0.25 - 0.75
LLRGPPVARA	GAGAVGAGPVVR	N-ter +28.03 Da	51.8	33.4	2	1037.63	-1.36	0.14	Q6PE62_MOUSE				0.15 - 0.25
MSVFGKLF	GAGGGKAGKGGPTPQEAIQR	N-ter +28.03 Da, K +28.03 Da	33.5	49.9	4	1920.15	2.33	0.66	CHM4B_MOUSE		Charged multivesicular body protein 4b;	Chromatin-modifying protein 4b;	0.85 - 1.00
PPGADKKAEA	GAGSATEFQFR	N-ter +28.03 Da	48.0	50.1	2	1197.64	-0.97	0.08	RS10_MOUSE		40S ribosomal protein S10;		0.15 - 0.25
ATPKQGPRML	GAPEEADANEEGVRR	N-ter +34.06 Da	31.5	52.3	3	1632.88	-2.74	0.73	CYTC_MOUSE	A2APX3_MOUSE	Cystatin-C;	Cystatin-3;	0.00 - 0.15
RVAGPQPAQT	GAPQGSLGEYLFER	N-ter +28.03 Da	41.6	49.0	3	1550.85	2.25	0.31	FRIL1_MOUSE	Q9CPX4_MOUSE	Ferritin light chain 1;	Ferritin L subunit 1;	0.85 - 1.00
TISLQMGTNK	GASQAGMLAPGTR	N-ter +28.03 Da	49.3	32.4	2	1243.68	0.95	0.10	CNN3_MOUSE		Calponin-3;	Calponin, acidic isoform;	0.75 - 0.85
GTGGVDTAAV	GAVFDISNADR	N-ter +34.06 Da	42.8	41.9	2	1197.67	-2.00	0.08	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
AYGRSPMVSF	GAVGFDPHPPMR	N-ter +28.03 Da	30.2	54.8	3	1307.72	-0.30	0.02	TLE3_MOUSE	Q3TY99_MOUSE	Transducin-like enhancer protein 3;	ESG;Grg-3;	0.25 - 0.75
GKSGGSGAGK	GAVSAEQVIAGFNR	N-ter +28.03 Da	39.6	49.3	3	1445.83	0.33	0.02	PFD2_MOUSE	F8WJ30_MOUSE	Prefoldin subunit 2;		0.25 - 0.75
DYKSAHKGFK	GAYDAQGTLSKIFKLGGR	N-ter +34.06 Da, K +34.06 Da	23.1	75.1	4	1983.35	-2.12	0.55	F7A0B0_MOUSE	F6RT34_MOUSE			0.00 - 0.15
SRKRELKEVF	GDDSEISKESSGVKKR	N-ter +28.03 Da, K +28.03 Da	23.3	69.4	4	1833.11	1.78	0.54	PRPF3_MOUSE		U4/U6 small nuclear ribonucleoprotein Prp3;	Pre-mRNA-splicing factor 3;	0.85 - 1.00
RGARINVMNR	GDDTPLHLAASHGHR	N-ter +28.03 Da	21.9	71.6	4	1610.91	-0.07	0.01	ILK_MOUSE	D3YZA5_MOUSE	Integrin-linked protein kinase;		0.25 - 0.75
LASYAVQSKY	GDFNKEVHKSGYLAGDKLLPQR	N-ter +34.06 Da, K +34.06 Da	41.1	64.5	4	2607.71	-4.06	0.68	MOES_MOUSE		Moesin;	Membrane-organizing extension spike protein;	0.00 - 0.15
CFSGMSDHRY	GDGGSSFQSTTGHCVHMR	N-ter +28.03 Da, C +57.02 Da	34.0	51.2	4	1947.93	0.66	0.24	HNRH2_MOUSE		Heterogeneous nuclear ribonucleoprotein H2;	Heterogeneous nuclear ribonucleoprotein H';	0.25 - 0.75
CFSGMSDHRY	GDGGSTFQSTTGHCVHMR	N-ter +28.03 Da, C +57.02 Da	48.8	60.8	4	1961.97	0.26	0.07	HNRH1_MOUSE	Q8C2Q7_MOUSE	Heterogeneous nuclear ribonucleoprotein H;		0.25 - 0.75
KSTTIKRKRD	GDKLVVECVMKGVTSTR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	32.8	52.3	4	1962.17	-0.86	0.08	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;	0.15 - 0.25
EDERKMLTGS	GDPKEEEEEELVDPLTTVR	N-ter +34.06 Da, K +34.06 Da	43.9	47.0	3	2252.28	-0.20	0.04	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 +28.03 Da	68.3	39.9	3	1888.03	-2.00	0.40	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
LSSANPVRRM	GDSASKVISAEEALPGR	N-ter +28.03 Da, K +28.03 Da	66.1	45.4	3	1742.00	-0.30	0.03	MSRA_MOUSE		Mitochondrial peptide methionine sulfoxide reductase;	Peptide-methionine (S)-S-oxide reductase;Protein-methionine-S-oxide reductase;	0.25 - 0.75
CLSGMYDHRY	GDSEFTVQSTTGHCVHMR	N-ter +28.03 Da, C +57.02 Da	40.0	61.8	4	2076.04	1.04	0.37	HNRPF_MOUSE		Heterogeneous nuclear ribonucleoprotein F;		0.75 - 0.85
DLNLKGSKVK	GDVDISGPKLEGDIKVPR	N-ter +28.03 Da, K +28.03 Da	26.1	56.7	4	1978.22	-0.67	0.13	E9Q616_MOUSE				0.25 - 0.75
SLTKYKKTLL	GDVPVVADPTVPNVTVTR	N-ter +28.03 Da	57.1	46.6	3	1863.10	-0.49	0.13	GDIR2_MOUSE		Rho GDP-dissociation inhibitor 2;	D4;Rho-GDI beta;	0.25 - 0.75
PGPAGASGDR	GEAGAAGPSGPAGPR	N-ter +28.03 Da	45.4	48.6	3	1278.69	4.45	1.66	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.85 - 1.00
KEAFLLFDRT	GECKITLSQVGDVLR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	48.4	31.3	3	1742.06	0.77	0.10	MYL1_MOUSE	E9PWG4_MOUSE	Myosin light chain 1/3, skeletal muscle isoform;	Myosin light chain alkali 1/2;	0.25 - 0.75
PPDAAVECHR	GECQSEGVLFFQGNR	N-ter +28.03 Da, C +57.02 Da	44.1	44.2	3	1754.88	1.49	0.20	HEMO_MOUSE		Hemopexin;		0.75 - 0.85
GPKLPGRVAF	GEDIDLPETFDAR	N-ter +28.03 Da	30.8	51.0	3	1504.78	0.32	0.03	CATB_MOUSE		Cathepsin B;	Cathepsin B1;	0.25 - 0.75
PDSGRRRRRR	GEEGHDPKEPEQLR	N-ter +28.03 Da, K +28.03 Da	17.4	69.1	4	1675.93	-1.43	0.39	ROA3_MOUSE	A2AL12_MOUSE	Heterogeneous nuclear ribonucleoprotein A3;		0.15 - 0.25
AGRFHVNLLC	GEEQGADAALHFNPR	N-ter +34.06 Da	72.5	55.7	3	1644.90	0.26	0.06	LEG7_MOUSE	Q9CRB1_MOUSE	Galectin-7;		0.25 - 0.75
GGGSGNSTGF	GEHGSSSHPLPSSGQNESSSGQSSR	N-ter +34.06 Da	17.6	55.3	4	2516.27	-2.64	0.99	FILA2_MOUSE	E9QPZ3_MOUSE	Filaggrin-2;	Intermediate filament-associated protein;	0.00 - 0.15
STECRKTRVS	GEHMDLTTCPLAAGGQQEKLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	36.4	56.8	4	2367.30	3.36	0.33	Q9D1B1_MOUSE				0.85 - 1.00
DLNFKGPKLK	GEIDASVPEMEADLR	N-ter +34.06 Da	36.5	57.3	3	1664.91	-0.42	0.06	E9Q616_MOUSE				0.25 - 0.75
EKIREYFGQF	GEIEAIELPIDPKLNKR	N-ter +34.06 Da, K +34.06 Da	23.2	41.6	4	2036.36	-3.64	0.91	ROAA_MOUSE	Q80XR6_MOUSE	Heterogeneous nuclear ribonucleoprotein A/B;	CArG-binding factor-A;	0.00 - 0.15
MSDN	GELEDKPPAPPVR	N-ter +28.03 Da, K +28.03 Da	32.2	49.2	3	1459.88	0.74	0.10	PAK2_MOUSE		Serine/threonine-protein kinase PAK 2;	Gamma-PAK;p21-activated kinase 2;	0.25 - 0.75
ACGSVTMSNP	GESSFDLADRLDPVEKIDR	N-ter +34.06 Da, K +34.06 Da	34.4	65.5	4	2229.34	0.19	0.05	SODE_MOUSE		Extracellular superoxide dismutase [Cu-Zn];		0.25 - 0.75
ACGSVTMSNP	GESSFDLADR	N-ter +28.03 Da	47.5	44.1	2	1123.56	-0.71	0.05	SODE_MOUSE		Extracellular superoxide dismutase [Cu-Zn];		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
DCTKVKCYRC	GETGHVAINCSKTSEVNCYR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	54.4	64.2	4	2337.23	0.35	0.15	CNBP_MOUSE		Cellular nucleic acid-binding protein;	Zinc finger protein 9;	0.25 - 0.75
VGPAGKNGDR	GETGPAGPAGPIGPAGAR	N-ter +28.03 Da	63.7	42.2	3	1559.87	1.76	0.26	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.85 - 1.00
NVVKTGRVML	GETNPADSKPGTIR	N-ter +28.03 Da, K +28.03 Da	38.1	52.8	3	1497.86	0.37	0.11	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
KGVVPLAGTN	GETTTQGLDGLSER	N-ter +28.03 Da	37.8	42.1	3	1490.78	-0.97	0.17	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.15 - 0.25
KDLKDYFTKF	GEVVDCTIKMDPNTGR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	29.3	52.3	3	1859.05	-1.94	0.37	ROAA_MOUSE	Q80XR6_MOUSE	Heterogeneous nuclear ribonucleoprotein A/B;	CArG-binding factor-A;	0.00 - 0.15
KDLTEYLSRF	GEVVDCTIKTDPVTGR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	37.1	39.3	3	1814.06	-2.32	0.46	HNRDL_MOUSE	F6VQH5_MOUSE	Heterogeneous nuclear ribonucleoprotein D-like;	JKT41-binding protein;	0.00 - 0.15
KDLKDYFSKF	GEVVDCTLKLDPITGR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	41.5	43.9	3	1840.12	-1.64	0.15	HNRPD_MOUSE	E9Q5B6_MOUSE	Heterogeneous nuclear ribonucleoprotein D0;	AU-rich element RNA-binding protein 1;	0.00 - 0.15
LIKVDDNKKL	GEWVGLCKIDR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	31.1	64.9	3	1387.82	1.90	0.31	RS12_MOUSE	D3Z6B6_MOUSE	40S ribosomal protein S12;		0.85 - 1.00
KHCSQVDSVR	GFGGKFGVQMDR	N-ter +28.03 Da, K +28.03 Da	26.6	50.4	3	1353.76	0.04	0.01	SRC8_MOUSE	Q921L6_MOUSE	Src substrate cortactin;		0.25 - 0.75
CDLYEKLGEY	GFQNAILVR	N-ter +28.03 Da	39.9	31.0	2	1044.64	-2.00	0.24	ALBU_MOUSE		Serum albumin;		0.00 - 0.15
DPGYPRNISE	GFSGIPDNVDAAFALPAHR	N-ter +34.06 Da	24.2	91.8	4	1988.22	-6.64	0.00	VTNC_MOUSE		Vitronectin;	S-protein;Serum-spreading factor;	0.00 - 0.15
KEEFEKNKGK	GFSVVADTPELQR	N-ter +28.03 Da	25.7	50.5	3	1445.82	0.88	0.10	LASP1_MOUSE	A2A6G6_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.25 - 0.75
KVLEVPALSL	GGAIGSAHLKEEASGELR	N-ter +28.03 Da, K +28.03 Da	24.5	61.4	4	1837.08	-1.25	0.12	SYNEM_MOUSE	F6VN34_MOUSE	Synemin;	Desmuslin;	0.15 - 0.25
KTDLNPDNLQ	GGDDLDPNYVLSSR	N-ter +34.06 Da	40.8	49.2	3	1540.83	-1.64	0.10	KCRM_MOUSE	KCRB_MOUSE	Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
GGNFGFGDSR	GGGGNFGPGPGSNFR	N-ter +28.03 Da	47.7	69.3	3	1404.75	-0.79	0.08	ROA2_MOUSE	F6U106_MOUSE	Heterogeneous nuclear ribonucleoproteins A2/B1;		0.25 - 0.75
MN	GGGKAEKENTPSEANLQEEEVR	N-ter +28.03 Da, K +28.03 Da	42.2	67.5	4	2455.38	2.26	0.60	RBPMS_MOUSE	Q9CPU5_MOUSE	RNA-binding protein with multiple splicing;	Heart and RRM expressed sequence;	0.85 - 1.00
SNIKAAWGKI	GGHGAEYGAEALER	N-ter +34.06 Da	56.9	52.5	3	1449.78	-1.74	0.17	HBA_MOUSE	Q91VB8_MOUSE	Hemoglobin subunit alpha;	Alpha-globin;Hemoglobin alpha chain;	0.00 - 0.15
AHLIVKKIFV	GGIKEDTEEHHLR	N-ter +34.06 Da, K +34.06 Da	19.4	68.7	4	1587.97	-0.58	0.15	ROA1_MOUSE	ROA2_MOUSE	Heterogeneous nuclear ribonucleoprotein A1;	HDP-1;Helix-destabilizing protein;Single-strand-binding protein;Topoisomerase-inhibitor suppressed;hnRNP core protein A1;	0.25 - 0.75
VQMGAVDLLG	GGLDSLIGDSNFGAPSASVAAAPAPAR	N-ter +28.03 Da	60.8	36.0	3	2496.35	0.14	0.05	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
GGGGTAMRIL	GGVISAISEAAAQYNPEPPPPR	N-ter +28.03 Da	52.7	51.4	4	2248.26	1.51	0.13	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;	0.75 - 0.85
PQQQQMTSSY	GGYKEPAAPVSIQR	N-ter +28.03 Da, K +28.03 Da	55.3	42.3	3	1527.91	0.81	0.22	LASP1_MOUSE	A2A6H0_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.25 - 0.75
TFGGLGSKSK	GHYEVTGSDDEAGKLQGSGVSLASKKSR	N-ter +28.03 Da, K +28.03 Da	48.4	57.9	4	2974.71	0.83	0.37	E9Q1H8_MOUSE	E9Q616_MOUSE			0.25 - 0.75
PLAKKLAAEK	GIDLTQVKGTGPEGR	N-ter +28.03 Da, K +28.03 Da	23.4	47.0	3	1582.94	0.72	0.08	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
IAHRIVAPGK	GILAADESTGSIAKR	N-ter +34.06 Da, K +34.06 Da	41.3	41.8	3	1555.99	-0.17	0.02	ALDOA_MOUSE	A6ZI44_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
NIKRNDFQLI	GIQDGYLSLLQDSGEVR	N-ter +28.03 Da	54.2	48.9	3	1877.04	-0.18	0.07	IF5A1_MOUSE		Eukaryotic translation initiation factor 5A-1;	Eukaryotic initiation factor 5A isoform 1;eIF-4D;	0.25 - 0.75
LSVPCILGQN	GISDVVKVTLTPEEEAR	N-ter +34.06 Da, K +34.06 Da	60.8	44.0	3	1910.18	-0.84	0.11	LDHA_MOUSE		L-lactate dehydrogenase A chain;	LDH muscle subunit;	0.15 - 0.25
MD	GIVPDIAVGTKR	N-ter +28.03 Da, K +28.03 Da	42.9	51.0	3	1280.85	1.35	0.16	PTBP1_MOUSE	Q922I7_MOUSE	Polypyrimidine tract-binding protein 1;	Heterogeneous nuclear ribonucleoprotein I;	0.75 - 0.85
ARYASICQQN	GIVPIVEPEILPDGDHDLKR	N-ter +34.06 Da, K +34.06 Da	47.9	54.3	4	2279.44	-0.79	0.16	ALDOA_MOUSE	ALDOC_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
EKLKKRKERF	GIVTSSAGTGTTEDTEAKKR	N-ter +28.03 Da, K +28.03 Da	40.8	59.6	4	2092.23	-1.00	0.28	SARNP_MOUSE		SAP domain-containing ribonucleoprotein;	Nuclear protein Hcc-1;	0.15 - 0.25
TVLSRAIAEL	GIYPAVDPLDSTSR	N-ter +28.03 Da	41.0	45.6	3	1517.84	0.97	0.11	ATPB_MOUSE		ATP synthase subunit beta, mitochondrial;		0.75 - 0.85
SFQYDHEAFL	GKEDSKTFDQLSPDESKER	N-ter +28.03 Da, K +28.03 Da	30.8	63.2	4	2307.31	-0.18	0.04	RCN1_MOUSE		Reticulocalbin-1;		0.25 - 0.75
RWKTMSAKEK	GKFEDMAKADKAR	N-ter +28.03 Da, K +28.03 Da	25.4	70.0	4	1577.97	1.04	0.21	HMGB1_MOUSE	D3YVC6_MOUSE	High mobility group protein B1;	High mobility group protein 1;	0.75 - 0.85
HHLRDYFEEY	GKIDTIEIITDR	N-ter +28.03 Da, K +28.03 Da	34.4	50.4	3	1428.89	-1.60	0.19	ROA2_MOUSE	F6U106_MOUSE	Heterogeneous nuclear ribonucleoproteins A2/B1;		0.00 - 0.15
YNLRDYFEKY	GKIETIEVMEDR	N-ter +28.03 Da, K +28.03 Da	37.6	50.5	3	1474.84	-1.36	0.14	ROA3_MOUSE	A2AL12_MOUSE	Heterogeneous nuclear ribonucleoprotein A3;		0.15 - 0.25
EDKSNIKAAW	GKIGGHGAEYGAEALER	N-ter +34.06 Da, K +34.06 Da	27.4	55.9	4	1782.07	-3.18	0.58	HBA_MOUSE	Q91VB8_MOUSE	Hemoglobin subunit alpha;	Alpha-globin;Hemoglobin alpha chain;	0.00 - 0.15
KAENGKLVIN	GKPITIFQER	N-ter +34.06 Da, K +34.06 Da	29.6	46.1	3	1255.85	-1.79	0.19	G3P_MOUSE	F8WJL5_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.00 - 0.15
SWLDGKHVVF	GKVLEGMDVVR	N-ter +34.06 Da, K +34.06 Da	34.8	50.4	3	1269.84	-0.94	0.05	PPIB_MOUSE		Peptidyl-prolyl cis-trans isomerase B;	CYP-S1;Cyclophilin B;Rotamase B;S-cyclophilin;	0.15 - 0.25
QDKRKQISVR	GLAGVENVSELKKNFNR	N-ter +28.03 Da, K +28.03 Da	37.3	61.3	4	1958.21	-2.47	0.28	PYGM_MOUSE	E9PUM3_MOUSE	Glycogen phosphorylase, muscle form;	Myophosphorylase;	0.00 - 0.15
FSKYLALNGR	GLDVKQAFNPEGEFQR	N-ter +28.03 Da, K +28.03 Da	34.7	51.9	3	1890.06	-1.22	0.17	MYOTI_MOUSE		Myotilin;	Myofibrillar titin-like Ig domains protein;Titin immunoglobulin domain protein;	0.15 - 0.25
KTFSHELSDF	GLESTTGEVPVVAIR	N-ter +28.03 Da	42.7	42.3	3	1554.93	-0.81	0.07	PDIA3_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;	0.15 - 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
PWINTPKKQG	GLGPMNIPLISDPKR	N-ter +28.03 Da, K +28.03 Da	39.7	58.0	3	1663.05	-0.30	0.06	PRDX1_MOUSE	B1AXW6_MOUSE	Peroxiredoxin-1;	Macrophage 23 kDa stress protein;Osteoblast-specific factor 3;Thioredoxin peroxidase 2;Thioredoxin-dependent peroxide reductase 2;	0.25 - 0.75
MFGGLSSWL	GLKPPEGAAAEGEEPPSR	N-ter +28.03 Da, K +28.03 Da	49.7	46.4	3	1847.03	1.46	0.24	SYAP1_MOUSE		Synapse-associated protein 1;		0.75 - 0.85
YLECSALTQR	GLKTVFDEAIR	N-ter +28.03 Da, K +28.03 Da	34.5	55.1	3	1303.82	-0.04	0.01	RAC1_MOUSE	RAC2_MOUSE	Ras-related C3 botulinum toxin substrate 1;	p21-Rac1;	0.25 - 0.75
M	GLLSQGSPLSWEETQR	N-ter +28.03 Da	44.6	47.2	3	1815.00	-0.03	0.00	GSH1_MOUSE		Glutamate--cysteine ligase catalytic subunit;	GCS heavy chain;Gamma-ECS;Gamma-glutamylcysteine synthetase;	0.25 - 0.75
QPRGSLRSVR	GLSAPSCPGLDDKTEASAR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	41.3	41.1	3	1987.05	3.29	0.70	PLIN1_MOUSE		Perilipin-1;	Lipid droplet-associated protein;Perilipin A;	0.85 - 1.00
LSLPCILNAR	GLTSVINQKLKDDEVAQLR	N-ter +28.03 Da, K +28.03 Da	26.6	51.8	4	2210.38	0.66	0.09	LDHB_MOUSE		L-lactate dehydrogenase B chain;	LDH heart subunit;	0.25 - 0.75
KAGYTDQVVI	GMDVAASEFYR	N-ter +34.06 Da	49.1	43.3	2	1278.67	-4.64	1.16	ENOA_MOUSE	ENOB_MOUSE	Alpha-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 1;Non-neural enolase;	0.00 - 0.15
RAFVHWYVGE	GMEEGEFSEAR	N-ter +28.03 Da	38.1	33.8	2	1268.58	0.42	0.09	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
PETLFQPSFI	GMESAGIHETTYNSIMKCDIDIR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	39.9	69.9	4	2696.45	4.60	1.55	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.85 - 1.00
GRPRHQGVMV	GMGQKDSYVGDEAQSKR	N-ter +34.06 Da, K +34.06 Da	37.7	55.4	4	1957.15	1.01	0.32	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.75 - 0.85
ANRIVLDFRR	GNDVAFHFNPR	N-ter +28.03 Da	37.7	81.2	3	1300.74	0.51	0.10	LEG3_MOUSE	Q8C253_MOUSE	Galectin-3;	35 kDa lectin;Carbohydrate-binding protein 35;Galactose-specific lectin 3;IgE-binding protein;L-34 galactoside-binding lectin;Laminin-binding protein;Lectin L-29;Mac-2 antigen;	0.25 - 0.75
IFAREILDSR	GNPTVEVDLHTAKGR	N-ter +28.03 Da, K +28.03 Da	27.2	60.4	4	1648.99	0.06	0.01	ENOB_MOUSE	Q5SX59_MOUSE	Beta-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 3;Muscle-specific enolase;Skeletal muscle enolase;	0.25 - 0.75
LAGLVFVSEA	GPAGAGESKCPLMVKVLDAVR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	25.1	53.0	4	2256.44	0.38	0.02	TTHY_MOUSE		Transthyretin;	Prealbumin;	0.25 - 0.75
IGIPGRPGPQ	GPPGPAGEKGLPGEKGPQGPAGR	N-ter +28.03 Da, K +28.03 Da	30.2	35.1	3	2194.26	1.31	0.19	CO5A1_MOUSE		Collagen alpha-1(V) chain;		0.75 - 0.85
NPGIGTQGPR	GPPGPAGPSGESRPGSPGPPGSPGPR	N-ter +34.06 Da	25.3	60.7	4	2339.32	-3.06	0.51	COEA1_MOUSE	B7ZNH7_MOUSE	Collagen alpha-1(XIV) chain;		0.00 - 0.15
QDHPSSMGVY	GQESGGFSGPGENR	N-ter +34.06 Da	33.4	48.5	3	1411.72	-2.47	0.28	EWS_MOUSE	Q5SUS8_MOUSE	RNA-binding protein EWS;		0.00 - 0.15
ATEEKIREYF	GQFGEIEAIELPIDPKLNKR	N-ter +34.06 Da, K +34.06 Da	42.7	56.9	4	2368.56	-1.94	0.45	ROAA_MOUSE	Q80XR6_MOUSE	Heterogeneous nuclear ribonucleoprotein A/B;	CArG-binding factor-A;	0.00 - 0.15
PRHQGVMVGM	GQKDSYVGDEAQSKR	N-ter +28.03 Da, K +28.03 Da	23.4	62.7	4	1750.99	-0.79	0.20	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.25 - 0.75
AMDGTEGLVR	GQKVLDSGAPIKIPVGPETLGR	N-ter +28.03 Da, K +28.03 Da	54.7	63.0	4	2315.50	-1.12	0.20	ATPB_MOUSE		ATP synthase subunit beta, mitochondrial;		0.15 - 0.25
MYIFPVHWQF	GQLDQHPIDGYLSHTELAPLR	N-ter +28.03 Da	48.7	66.7	4	2387.38	0.75	0.20	SPRC_MOUSE	Q5NCU4_MOUSE	SPARC;	Basement-membrane protein 40;Osteonectin;Secreted protein acidic and rich in cysteine;	0.25 - 0.75
ARGDLGPFSR	GQMQKPFEDASFALR	N-ter +28.03 Da, K +28.03 Da	42.7	49.1	3	1779.99	-0.22	0.12	PIN1_MOUSE		Peptidyl-prolyl cis-trans isomerase NIMA-interacting 1;	Peptidyl-prolyl cis-trans isomerase Pin1;	0.25 - 0.75
GGTDIISCFM	GQNSSIPVYKGEIQAR	N-ter +28.03 Da, K +28.03 Da	32.2	43.4	3	1802.05	0.41	0.08	AACS_MOUSE		Acetoacetyl-CoA synthetase;		0.25 - 0.75
FQLRSICYLL	GQPEPLAPGTTLPAPDR	N-ter +28.03 Da	42.2	37.8	3	1743.98	0.52	0.05	RN123_MOUSE	Q05CH9_MOUSE	E3 ubiquitin-protein ligase RNF123;	Kip1 ubiquitination-promoting complex protein 1;RING finger protein 123;	0.25 - 0.75
VSKQPSRITN	GQPQQTTGAASGGYIKR	N-ter +28.03 Da, K +28.03 Da	36.6	49.7	3	1775.02	0.16	0.02	SNP23_MOUSE	Q9D3L3_MOUSE	Synaptosomal-associated protein 23;	Syndet;Vesicle-membrane fusion protein SNAP-23;	0.25 - 0.75
HSLRTAAVLQ	GQVVQFKLSDIGEGIR	N-ter +28.03 Da, K +28.03 Da	39.2	37.4	3	1801.08	0.91	0.13	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
EGPVGLPGID	GRPGPIGPAGPR	N-ter +34.06 Da	33.4	47.3	3	1164.75	-2.47	0.41	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.00 - 0.15
RGDSPKIDLA	GSALSGILDKDLSDR	N-ter +34.06 Da, K +34.06 Da	29.5	57.8	3	1614.02	0.21	0.04	SH3K1_MOUSE	B0R0Y8_MOUSE	SH3 domain-containing kinase-binding protein 1;	Regulator of ubiquitous kinase;SH3-containing, expressed in tumorigenic astrocytes;	0.25 - 0.75
YREVAAFAQF	GSDLDAATQQLLSR	N-ter +28.03 Da	43.6	48.5	3	1501.85	-0.58	0.07	ATPA_MOUSE	D3Z6F5_MOUSE	ATP synthase subunit alpha, mitochondrial;		0.25 - 0.75
AQAAVASYNM	GSDSLYYFR	N-ter +28.03 Da	33.1	50.1	2	1134.59	-1.43	0.16	Q9D1B1_MOUSE				0.15 - 0.25
DYSQQGHVSS	GSEVTQCCQTDLCNER	N-ter +28.03 Da, C +57.02 Da	46.8	55.3	3	1983.92	2.36	0.81	LY6D_MOUSE		Lymphocyte antigen 6D;	Thymocyte B-cell antigen;	0.85 - 1.00
EETTALVCDN	GSGLVKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da	50.7	47.0	3	1572.90	-0.12	0.03	ACTC_MOUSE	ACTS_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
HPTSPPRPPG	GSIITVYPKEIR	N-ter +28.03 Da, K +28.03 Da	52.1	37.4	3	1430.90	0.86	0.10	MA2B2_MOUSE		Epididymis-specific alpha-mannosidase;	Mannosidase alpha class 2B member 2;	0.25 - 0.75
GGRPAMEPGN	GSLDLGGDAAGR	N-ter +28.03 Da	59.7	47.6	2	1115.61	2.65	0.18	HNRPU_MOUSE		Heterogeneous nuclear ribonucleoprotein U;	Scaffold attachment factor A;	0.85 - 1.00
DYLGRAGSPR	GSPLAEGPQAFFPER	N-ter +28.03 Da	34.0	52.9	3	1629.90	-2.00	0.24	IASPP_MOUSE		RelA-associated inhibitor;	Inhibitor of ASPP protein;NFkB-interacting protein 1;PPP1R13B-like protein;	0.00 - 0.15
M	GSSQSVEIPGGGTEGYHVLR	N-ter +28.03 Da	59.7	44.8	3	2057.11	0.12	0.02	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	79.3	40.0	3	1876.96	1.11	0.16	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.75 - 0.85
EFLRELSFGR	GSTAPVGGGSFPTITPR	N-ter +28.03 Da	39.9	48.0	3	1628.93	0.14	0.01	PDIA6_MOUSE	Q3TML0_MOUSE	Protein disulfide-isomerase A6;	Thioredoxin domain-containing protein 7;	0.25 - 0.75
HGPPPMDQYL	GSTPVGSGVYR	N-ter +28.03 Da	39.3	40.2	2	1106.62	0.25	0.02	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
VRNIKSMWEK	GSVFSAPSASGTPNKETAGLKVGVSSR	N-ter +28.03 Da, K +28.03 Da	54.9	57.8	4	2674.58	2.08	0.61	Q8VCQ8_MOUSE	E9Q0M9_MOUSE			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
GDHSTPPSAY	GSVKPYTNFDAER	N-ter +28.03 Da, K +28.03 Da	47.5	52.8	3	1538.85	-0.09	0.02	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
ILTRLRLQKR	GTGGVDTAAVGAVFDISNADR	N-ter +28.03 Da	71.0	45.8	3	2020.08	1.75	0.40	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.85 - 1.00
VEAARNLGRV	GTKCCTLPEDQR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	23.3	87.9	3	1519.85	1.86	0.34	ALBU_MOUSE		Serum albumin;		0.85 - 1.00
SVCVVHLRNL	GTLDNPSSLDETAYER	N-ter +34.06 Da	40.1	51.2	3	1800.95	-0.14	0.02	FRDA_MOUSE	E9Q2P9_MOUSE	Frataxin, mitochondrial;		0.25 - 0.75
RKNKMASNIF	GTPEENPPSWAKSAGSKSSGGR	N-ter +34.06 Da, K +34.06 Da	33.5	56.8	4	2288.35	0.07	0.01	HN1_MOUSE		Hematological and neurological expressed 1 protein;		0.25 - 0.75
TIDCDVITLM	GTPSGTAEPYDGTKAR	N-ter +28.03 Da, K +28.03 Da	47.7	49.5	3	1662.90	0.23	0.08	BSDC1_MOUSE		BSD domain-containing protein 1;		0.25 - 0.75
QRRSIISRLF	GTSPAAEVTPSPPEPAPALEAPAR	N-ter +28.03 Da	46.9	47.1	3	2340.31	-0.71	0.06	PARF_MOUSE		Putative GTP-binding protein Parf;		0.25 - 0.75
AALHKAIMVK	GVDEATIIDILTKR	N-ter +28.03 Da, K +28.03 Da	54.3	49.6	3	1599.00	0.90	0.38	ANXA1_MOUSE	E9QA30_MOUSE	Annexin A1;	Annexin I;Annexin-1;Calpactin II;Calpactin-2;Chromobindin-9;Lipocortin I;Phospholipase A2 inhibitory protein;p35;	0.25 - 0.75
LDHGRTLREQ	GVEEHETLLLR	N-ter +34.06 Da	25.3	60.3	3	1328.83	-0.74	0.04	TLN1_MOUSE	A2AIM2_MOUSE	Talin-1;		0.25 - 0.75
SGNRLDGKKK	GVEPSPSPIKPGDIKR	N-ter +28.03 Da, K +28.03 Da	23.5	51.8	4	1760.11	0.03	0.00	UFD1_MOUSE		Ubiquitin fusion degradation protein 1 homolog;		0.25 - 0.75
ADCAVLIVAA	GVGEFEAGISKNGQTR	N-ter +34.06 Da, K +34.06 Da	26.4	52.7	3	1717.03	-1.25	0.12	EF1A1_MOUSE	EF1A2_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.15 - 0.25
AVPVFDLLIL	GVGPDGHTCSLFPDHPLLQER	N-ter +28.03 Da, C +57.02 Da	46.3	65.6	4	2359.29	3.11	0.31	6PGL_MOUSE	Q8CBG6_MOUSE			0.85 - 1.00
GGGTAMRILG	GVISAISEAAAQYNPEPPPPR	N-ter +28.03 Da	45.7	52.7	4	2191.24	0.39	0.03	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
KESCLTPKLD	GVKEKALVSSVR	N-ter +28.03 Da, K +28.03 Da	20.4	59.3	3	1355.93	1.14	0.29	ALBU_MOUSE		Serum albumin;		0.75 - 0.85
PSIVGRPRHQ	GVMVGMGQKDSYVGDEAQSKR	N-ter +28.03 Da, K +28.03 Da	44.8	61.0	4	2325.29	0.52	0.09	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.25 - 0.75
YTLGVKQLIV	GVNKMDSTEPPYSQKR	N-ter +28.03 Da, K +28.03 Da	35.5	68.0	4	1920.11	-3.06	0.51	EF1A1_MOUSE	D3Z3I8_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.00 - 0.15
PNRSQTGWPR	GVNQFGNKYIQQTKPLTLER	N-ter +28.03 Da, K +28.03 Da	32.0	50.8	4	2417.47	0.06	0.01	CPSF5_MOUSE		Cleavage and polyadenylation specificity factor subunit 5;	Nucleoside diphosphate-linked moiety X motif 21;	0.25 - 0.75
RGERGFPGER	GVQGPPGPAGPR	N-ter +28.03 Da	63.6	30.3	2	1116.64	0.71	0.09	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.25 - 0.75
M	GVQVETISPGDGR	N-ter +28.03 Da	31.4	44.4	3	1341.75	-0.25	0.04	FKB1A_MOUSE	Q1JUQ8_MOUSE	Peptidyl-prolyl cis-trans isomerase FKBP1A;	12 kDa FK506-binding protein;FK506-binding protein 1A;Immunophilin FKBP12;Rotamase;	0.25 - 0.75
LTLPRAARGF	GVQVSPSGEKITHTGQVYDEKDYR	N-ter +34.06 Da, K +34.06 Da	39.9	56.0	4	2794.66	-1.79	0.68	NDUS6_MOUSE	D3YW32_MOUSE	NADH dehydrogenase [ubiquinone] iron-sulfur protein 6, mitochondrial;	Complex I-13kD-A;NADH-ubiquinone oxidoreductase 13 kDa-A subunit;	0.00 - 0.15
ARGAQVRGNA	GVSDGSEVAKAQKAAPGGASPTIFSR	N-ter +28.03 Da, K +28.03 Da	27.9	56.1	4	2571.51	0.43	0.15	HINT2_MOUSE		Histidine triad nucleotide-binding protein 2, mitochondrial;	HINT-3;	0.25 - 0.75
GSSADRQGRR	GVSESQASDSEGHSDFSEGQAVGAHR	N-ter +28.03 Da	63.2	63.9	4	2658.32	2.79	1.27	E9Q019_MOUSE	F7BVV1_MOUSE			0.85 - 1.00
GNFAAQYSDK	GVSSGPGPMGLMGPR	N-ter +34.06 Da	59.2	55.9	3	1432.82	-1.74	0.12	CO1A2_MOUSE	E0CXI2_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.00 - 0.15
HQALKGFSSK	GVTSVSQIFHSPDLAIR	N-ter +28.03 Da	50.5	51.0	3	1854.09	1.56	0.18	IC1_MOUSE	A2ATR8_MOUSE	Plasma protease C1 inhibitor;	C1 esterase inhibitor;C1-inhibiting factor;Serpin G1;	0.75 - 0.85
LIPEYLNFIR	GVVDSEDLPLNISR	N-ter +28.03 Da	30.5	48.6	3	1540.88	0.14	0.01	HS90A_MOUSE	HS90B_MOUSE	Heat shock protein HSP 90-alpha;	Heat shock 86 kDa;Tumor-specific transplantation 86 kDa antigen;	0.25 - 0.75
GGNFASQMSY	GYDEKSAGVSVPGPMGPSGPR	N-ter +34.06 Da, K +34.06 Da	27.6	43.8	3	2112.19	-1.89	0.35	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
QQQQMTSSYG	GYKEPAAPVSIQR	N-ter +34.06 Da, K +34.06 Da	34.9	31.2	3	1482.93	2.06	0.37	LASP1_MOUSE	A2A6H0_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.85 - 1.00
DYLMKILTER	GYSFTTTAER	N-ter +28.03 Da	34.4	31.9	2	1159.59	-2.74	0.18	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.00 - 0.15
DYLMKILTER	GYSFVTTAER	N-ter +28.03 Da	34.7	39.0	2	1157.62	1.90	0.20	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.85 - 1.00
TQCARIVEKY	GYTHLSAGELLR	N-ter +28.03 Da	27.0	71.8	3	1343.82	-0.20	0.03	KCY_MOUSE		UMP-CMP kinase;	Cytidine monophosphate kinase;Cytidylate kinase;Deoxycytidylate kinase;Uridine monophosphate kinase;Uridine monophosphate/cytidine monophosphate kinase;	0.25 - 0.75
TQCEKIVQKY	GYTHLSTGDLLR	N-ter +28.03 Da	42.1	51.1	3	1359.78	-0.79	0.19	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.25 - 0.75
SRVRTGRSIK	GYTLPPHCSR	N-ter +34.06 Da, C +57.02 Da	33.2	51.6	3	1220.68	-4.06	0.68	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
SDHRTYHDLR	HAFSPVASVESASGETLHSPK	N-ter +28.03 Da, K +28.03 Da	55.1	68.3	4	2193.26	-0.45	0.06	FETUA_MOUSE		Alpha-2-HS-glycoprotein;	Countertrypin;Fetuin-A;	0.25 - 0.75
GWTKPITIGR	HAHGDQYKATDFVVDR	N-ter +28.03 Da, K +28.03 Da	26.5	69.2	4	1914.07	-0.56	0.12	IDHP_MOUSE	D6RIL6_MOUSE	Isocitrate dehydrogenase [NADP], mitochondrial;	ICD-M;IDP;NADP(+)-specific ICDH;Oxalosuccinate decarboxylase;	0.25 - 0.75
GIVEGLMTTV	HAITATQKTVDGPSGKLWR	N-ter +28.03 Da, K +28.03 Da	27.8	59.2	4	2149.33	-0.42	0.06	G3P_MOUSE	F8WJL5_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.25 - 0.75
GGKSQDDVAR	HAQVISSSGIVSLGIGDR	N-ter +28.03 Da	55.5	45.4	3	1823.07	3.59	0.37	E9PWQ3_MOUSE	D3YWD1_MOUSE			0.85 - 1.00
KGTFASLSEL	HCDKLHVDPENFR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	23.3	63.8	4	1721.94	2.71	0.81	HBB1_MOUSE	HBB2_MOUSE	Hemoglobin subunit beta-1;	Beta-1-globin;Hemoglobin beta-1 chain;Hemoglobin beta-major chain;	0.85 - 1.00
QICPNNLVAF	HDFSSDLENVPHLR	N-ter +28.03 Da	30.3	78.1	3	1692.95	0.20	0.04	PRELP_MOUSE		Prolargin;	Proline-arginine-rich end leucine-rich repeat protein;	0.25 - 0.75
RQIRTKVMDV	HDGKVVSTHEQVLR	N-ter +28.03 Da, K +28.03 Da	25.2	68.4	4	1660.02	1.48	0.37	K1C14_MOUSE		Keratin, type I cytoskeletal 14;	Cytokeratin-14;Keratin-14;	0.75 - 0.85
YGHYEPGEEF	HDVEDAETYKKMLAR	N-ter +28.03 Da, K +28.03 Da	19.6	54.6	4	1889.08	0.57	0.07	RCN3_MOUSE	D3Z7T1_MOUSE	Reticulocalbin-3;		0.25 - 0.75
LLGTLPARAA	HEDPVEKVIEGFSR	N-ter +34.06 Da, K +34.06 Da	44.8	68.3	4	1709.06	0.53	0.03	SBSN_MOUSE	E9QPB2_MOUSE	Suprabasin;		0.25 - 0.75
YWKTLGISPF	HEFADVVFTANDSGHR	N-ter +28.03 Da	34.9	84.8	4	1829.01	3.59	0.56	TTHY_MOUSE		Transthyretin;	Prealbumin;	0.85 - 1.00
PTDKHKTDLN	HENLKGGDDLDPNYVLSSR	N-ter +34.06 Da, K +34.06 Da	43.3	60.4	4	2196.28	-1.25	0.12	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	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
HRWRYPSLSL	HGIEGAFSGSGAKTVIPR	N-ter +28.03 Da, K +28.03 Da	21.6	48.8	4	1839.09	5.06	0.61	CNDP2_MOUSE	F6XEL6_MOUSE	Cytosolic non-specific dipeptidase;	CNDP dipeptidase 2;Glutamate carboxypeptidase-like protein 1;	0.85 - 1.00
LIGALGCAIC	HGNPVDDICIAKPR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	15.4	56.3	4	1646.95	-0.52	0.08	ANT3_MOUSE		Antithrombin-III;	Serpin C1;	0.25 - 0.75
ENLATAFTIL	HHPEFTPDQPTER	N-ter +28.03 Da	36.0	56.9	3	1617.85	0.89	0.20	TXLNB_MOUSE		Beta-taxilin;	Muscle-derived protein 77;	0.25 - 0.75
TNWDDMEKIW	HHTFYNELR	N-ter +28.03 Da	21.8	61.3	3	1243.69	0.37	0.03	ACTC_MOUSE	ACTB_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
LLSRPRKHKS	HHVLVIENKYMR	N-ter +28.03 Da, K +28.03 Da	28.2	65.4	4	1593.99	0.57	0.07	MA2B1_MOUSE		Lysosomal alpha-mannosidase;	Lysosomal acid alpha-mannosidase;Mannosidase alpha class 2B member 1;Mannosidase alpha-B;	0.25 - 0.75
MEDVTL	HIVERPYSGFPDASSEGPEPTQGEAR	N-ter +28.03 Da	55.0	61.2	4	2840.51	7.76	2.75	PTRF_MOUSE	Q3U4N4_MOUSE	Polymerase I and transcript release factor;	Cav-p60;Cavin-1;	0.85 - 1.00
LRALQALQQE	HKAEIITVSDGR	N-ter +28.03 Da, K +28.03 Da	25.0	46.4	3	1380.84	-1.36	0.17	VPS25_MOUSE	A2A4J8_MOUSE	Vacuolar protein-sorting-associated protein 25;	ESCRT-II complex subunit VPS25;	0.15 - 0.25
STMGYMMAKK	HLEINPDHPIVETLR	N-ter +28.03 Da	32.3	76.0	4	1810.11	2.48	0.22	HS90B_MOUSE	Q71LX8_MOUSE	Heat shock protein HSP 90-beta;	Heat shock 84 kDa;Tumor-specific transplantation 84 kDa antigen;	0.85 - 1.00
PMGRGTKVIL	HLKEDQTEYLEER	N-ter +28.03 Da, K +28.03 Da	20.6	61.9	4	1744.97	1.55	0.16	HS90B_MOUSE	HS90A_MOUSE	Heat shock protein HSP 90-beta;	Heat shock 84 kDa;Tumor-specific transplantation 84 kDa antigen;	0.75 - 0.85
GTFLYEYSRR	HPDYSVSLLLR	N-ter +28.03 Da	35.2	65.0	3	1326.82	2.97	0.19	ALBU_MOUSE		Serum albumin;		0.85 - 1.00
NRSLHRNHIR	HPEYDYSNDLMLLR	N-ter +34.06 Da	40.5	51.1	3	1798.97	-3.64	0.46	K1KB9_MOUSE		Kallikrein 1-related peptidase b9;	Epidermal growth factor-binding protein type C;Glandular kallikrein K9;Tissue kallikrein-9;	0.00 - 0.15
GLCLLQLSLA	HPHQQIDLNVTCR	N-ter +28.03 Da, C +57.02 Da	54.9	52.4	3	1644.90	0.82	0.14	A2APM2_MOUSE	A2APM5_MOUSE			0.25 - 0.75
SPQTIKTTAR	HQDLDKFIKVNPDVLTNNQR	N-ter +28.03 Da, K +28.03 Da	24.9	61.0	4	2477.49	1.12	0.13	SCEL_MOUSE	Q14DQ7_MOUSE	Sciellin;		0.75 - 0.85
VFPSIVGRPR	HQGVMVGMGQKDSYVGDEAQSKR	N-ter +28.03 Da, K +28.03 Da	67.5	62.3	4	2590.42	3.54	0.69	ACTA_MOUSE	ACTB_MOUSE	Actin, aortic smooth muscle;	Alpha-actin-2;	0.85 - 1.00
SESQASDSEG	HSDFSEGQAVGAHR	N-ter +28.03 Da	53.9	55.2	3	1524.79	2.92	0.98	F7BVV1_MOUSE	FILA_MOUSE			0.85 - 1.00
PSPLAVPRRA	HSILPVDDDINGLNEEQKQLR	N-ter +28.03 Da, K +28.03 Da	63.1	61.0	4	2488.44	0.63	0.12	IVD_MOUSE		Isovaleryl-CoA dehydrogenase, mitochondrial;		0.25 - 0.75
QAQQAMDVQL	HSPAFQFPDVDFLR	N-ter +28.03 Da	37.7	50.3	3	1702.93	0.04	0.03	CLUS_MOUSE		Clusterin;	Apolipoprotein J;Clustrin;Sulfated glycoprotein 2;	0.25 - 0.75
LILPYVELDL	HSYDLGIENR	N-ter +28.03 Da	39.3	62.7	3	1230.68	0.88	0.08	IDHC_MOUSE	F8WIY0_MOUSE	Isocitrate dehydrogenase [NADP] cytoplasmic;	Cytosolic NADP-isocitrate dehydrogenase;IDP;NADP(+)-specific ICDH;Oxalosuccinate decarboxylase;	0.25 - 0.75
VILQHLRMSM	HTEAAEVLLER	N-ter +28.03 Da	35.9	48.3	3	1294.75	-0.79	0.05	HIBCH_MOUSE	E0CX19_MOUSE	3-hydroxyisobutyryl-CoA hydrolase, mitochondrial;	3-hydroxyisobutyryl-coenzyme A hydrolase;	0.25 - 0.75
LLLCMPFGKS	HTEEDFIITTKTGR	N-ter +28.03 Da, K +28.03 Da	24.8	72.8	4	1703.01	1.03	0.08	CHLE_MOUSE		Cholinesterase;	Acylcholine acylhydrolase;Butyrylcholine esterase;Choline esterase II;Pseudocholinesterase;	0.75 - 0.85
SCLDHVISYY	HVASDTEKIIR	N-ter +28.03 Da, K +28.03 Da	31.1	50.8	3	1323.82	0.77	0.13	EXOC7_MOUSE	A2AAN4_MOUSE	Exocyst complex component 7;	Exocyst complex component Exo70;	0.25 - 0.75
KHGGPADEER	HVGDLGNVTAGKDGVANVSIEDR	N-ter +28.03 Da, K +28.03 Da	60.0	61.2	4	2378.36	1.42	0.26	SODC_MOUSE		Superoxide dismutase [Cu-Zn];		0.75 - 0.85
GMVPDQAGRF	HVNLLCGEEQGADAALHFNPR	N-ter +28.03 Da, C +57.02 Da	48.5	60.4	4	2375.29	1.96	0.33	Q9CRB1_MOUSE	LEG7_MOUSE			0.85 - 1.00
QPRNWLLFAC	HVTNEVAQLIQGGR	N-ter +28.03 Da	57.2	46.8	3	1548.91	-0.27	0.04	BR44L_MOUSE	D3Z5S0_MOUSE	Brain protein 44-like protein;		0.25 - 0.75
HRSGETEDTF	IADLVVGLCTGQIKTGAPCR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	44.4	55.4	4	2196.36	-1.40	0.22	ENOB_MOUSE	ENOA_MOUSE	Beta-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 3;Muscle-specific enolase;Skeletal muscle enolase;	0.15 - 0.25
LDATTVLSRA	IAELGIYPAVDPLDSTSR	N-ter +28.03 Da	48.3	42.3	3	1944.10	0.99	0.30	ATPB_MOUSE		ATP synthase subunit beta, mitochondrial;		0.75 - 0.85
FPKKSSRTAR	IASDEEIQGTKDAVIQDLER	N-ter +28.03 Da, K +28.03 Da	38.1	64.7	4	2285.32	-2.74	0.55	PALLD_MOUSE		Palladin;		0.00 - 0.15
DIFTGKKYED	ICPSTHNMDVPNIKR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	27.0	62.8	4	1837.05	-1.79	0.25	IF5A1_MOUSE	IF5A2_MOUSE	Eukaryotic translation initiation factor 5A-1;	Eukaryotic initiation factor 5A isoform 1;eIF-4D;	0.00 - 0.15
AEKNAPAIIF	IDELDAIAPKR	N-ter +28.03 Da, K +28.03 Da	32.1	42.3	3	1295.80	0.85	0.08	TERA_MOUSE		Transitional endoplasmic reticulum ATPase;	15S Mg(2+)-ATPase p97 subunit;Valosin-containing protein;	0.25 - 0.75
ESDAADIVFL	IDSSDAVKPDGIAHIR	N-ter +28.03 Da, K +28.03 Da	38.2	60.8	4	1749.05	-0.01	0.00	E9PWQ3_MOUSE	D3YWD1_MOUSE			0.25 - 0.75
EAPVGVETDL	IDVGFTDDVKKGGPGR	N-ter +34.06 Da, K +34.06 Da	28.9	61.2	4	1762.16	1.04	0.33	IST1_MOUSE	Q8BHC2_MOUSE	IST1 homolog;		0.75 - 0.85
RLAKYNQLMR	IEEALGDKAVFAGR	N-ter +28.03 Da, K +28.03 Da	30.4	35.0	3	1530.89	-0.25	0.06	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	41.8	45.9	3	1580.90	0.87	0.11	RS23_MOUSE	Q9CZI5_MOUSE	40S ribosomal protein S23;		0.25 - 0.75
EGNKEQIQKI	IETLSQQLQAKGKELNEFR	N-ter +34.06 Da, K +34.06 Da	26.0	53.3	4	2333.51	-1.43	0.19	PFD2_MOUSE		Prefoldin subunit 2;		0.15 - 0.25
AEGFKGKILF	IFIDSDHTDNQR	N-ter +28.03 Da	27.6	76.2	3	1487.81	-0.06	0.01	PDIA1_MOUSE		Protein disulfide-isomerase;	Cellular thyroid hormone-binding protein;Endoplasmic reticulum resident protein 59;Prolyl 4-hydroxylase subunit beta;p55;	0.25 - 0.75
R	IFQTTTERPFIQKLFR	N-ter +34.06 Da, K +34.06 Da	27.8	28.1	4	2248.41	-2.12	1.20	F7D9Q0_MOUSE				0.00 - 0.15
KSNIKAAWGK	IGGHGAEYGAEALER	N-ter +34.06 Da	54.4	51.5	3	1562.87	-2.06	0.43	HBA_MOUSE	Q91VB8_MOUSE	Hemoglobin subunit alpha;	Alpha-globin;Hemoglobin alpha chain;	0.00 - 0.15
VPRKCSASNR	IIAAKDHASIQMNVAEVDR	N-ter +28.03 Da, K +28.03 Da	21.6	56.3	4	2136.26	0.11	0.01	RS21_MOUSE		40S ribosomal protein S21;		0.25 - 0.75
PKHPVDQVQR	IIGGSMDAKGSFPWQAK	N-ter +28.03 Da, K +28.03 Da	15.0	43.4	3	1876.07	0.37	0.08	HPT_MOUSE		Haptoglobin;		0.25 - 0.75
GTIAGLNVLR	IINEPTAAAIAYGLDKK	N-ter +28.03 Da, K +28.03 Da	32.1	33.0	3	1871.14	0.33	0.03	HSP7C_MOUSE	HSP72_MOUSE	Heat shock cognate 71 kDa protein;	Heat shock 70 kDa protein 8;	0.25 - 0.75
MSFSKDWSFY	ILAHTEFTPTETDTYACR	N-ter +34.06 Da, C +57.02 Da	40.5	48.0	3	2159.15	-0.32	0.11	B2MG_MOUSE	Q91XJ8_MOUSE	Beta-2-microglobulin;		0.25 - 0.75
IYSQVQSKKK	ILATPPQEDAPSVDIANIR	N-ter +28.03 Da	32.5	11.9	3	2047.12	1.08	0.21	TKT_MOUSE		Transketolase;	P68;	0.75 - 0.85
VEKKSAAFAK	ILDPAYQVDKGGKVR	N-ter +34.06 Da, K +34.06 Da	23.5	50.8	4	1760.19	-2.12	0.09	D3YU50_MOUSE	Q6P6L5_MOUSE			0.00 - 0.15
AAVCAQPRGR	ILGGQEAAAHAR	N-ter +34.06 Da	35.3	49.6	3	1226.76	-1.00	0.34	CFAD_MOUSE		Complement factor D;	28 kDa adipocyte protein;Adipsin;C3 convertase activator;Properdin factor D;	0.15 - 0.25
APMTDEIQQQ	ILNLPESWDWR	N-ter +28.03 Da	36.0	38.2	2	1455.81	1.61	0.54	CATC_MOUSE	D3Z220_MOUSE	Dipeptidyl peptidase 1;	Cathepsin C;Cathepsin J;Dipeptidyl peptidase I;Dipeptidyl transferase;	0.75 - 0.85
FTVNRPFLFF	IMEDTIGVPLFVGSVR	N-ter +28.03 Da	38.7	48.1	3	1760.04	1.32	0.22	A2AP_MOUSE		Alpha-2-antiplasmin;	Alpha-2-plasmin inhibitor;Serpin F2;	0.75 - 0.85
YTTSIVPQML	INLWGSTKTISYLR	N-ter +28.03 Da, K +28.03 Da	27.9	38.5	3	1707.04	-1.43	0.12	Q8VEY4_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
GAAIEECVSR	IPVPRPPSIEEFTIVK	N-ter +28.03 Da, K +28.03 Da	21.1	75.6	4	1877.24	0.65	0.10	GWL_MOUSE		Serine/threonine-protein kinase greatwall;	Microtubule-associated serine/threonine-protein kinase-like;	0.25 - 0.75
D	IQMTQTTSSLSASLGDR	N-ter +34.06 Da	45.0	44.3	3	1944.06	-1.79	0.74	KV5AA_MOUSE	KV5AB_MOUSE	Ig kappa chain V-V region MOPC 173;		0.00 - 0.15
KPHSEAGTAF	IQTQQLHAAMADTFLEHMCR	N-ter +28.03 Da, C +57.02 Da	55.9	62.7	4	2428.30	0.06	0.01	KPYM_MOUSE		Pyruvate kinase isozymes M1/M2;	Pyruvate kinase muscle isozyme;	0.25 - 0.75
QGVRVGTVMR	IRGMVPDQAGR	N-ter +28.03 Da	35.1	59.7	3	1226.73	-0.01	0.00	Q9CRB1_MOUSE	D3Z141_MOUSE			0.25 - 0.75
LLLGPSSVLG	ISFHLPVNSR	N-ter +28.03 Da	30.2	55.4	3	1196.73	-0.94	0.20	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
ASLSTFQQMW	ISKQEYDESGPSIVHR	N-ter +28.03 Da, K +28.03 Da	35.5	59.0	4	1900.08	0.99	0.17	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.75 - 0.85
SNKEIFLREL	ISNASDALDKIR	N-ter +28.03 Da, K +28.03 Da	22.2	44.6	3	1357.82	3.48	0.58	HS90B_MOUSE	ENPL_MOUSE	Heat shock protein HSP 90-beta;	Heat shock 84 kDa;Tumor-specific transplantation 84 kDa antigen;	0.85 - 1.00
IALNDNFVKL	ISWYDNEYGYSNR	N-ter +28.03 Da	37.0	54.9	3	1693.83	2.31	1.11	G3P_MOUSE	F8WJL5_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.85 - 1.00
RKRKEGENQR	ITSGESSSGGNPKAKDECAQYR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	29.9	56.4	4	2425.29	-0.06	0.03	Q148R4_MOUSE				0.25 - 0.75
KKELSDIAHR	IVAPGKGILAADESTGSIAKR	N-ter +28.03 Da, K +28.03 Da	43.7	48.3	4	2137.35	0.72	0.15	ALDOA_MOUSE	A6ZI44_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
DAVTTRQVRT	IVEEVQDGKVISSR	N-ter +28.03 Da, K +28.03 Da	26.3	46.5	3	1613.97	4.48	1.33	K1C17_MOUSE	D3YXP7_MOUSE	Keratin, type I cytoskeletal 17;	Cytokeratin-17;Keratin-17;	0.85 - 1.00
SICQQNGIVP	IVEPEILPDGDHDLKR	N-ter +28.03 Da, K +28.03 Da	23.7	74.4	4	1901.17	-0.64	0.04	ALDOA_MOUSE	ALDOC_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
LLWVPGSTGD	IVLTQSPASLAVSLGQR	N-ter +34.06 Da	62.3	42.6	3	1888.16	-1.64	0.67	KV3A1_MOUSE	KV3A2_MOUSE	Ig kappa chain V-III region PC 2880/PC 1229;		0.00 - 0.15
GSGKGTQCEK	IVQKYGYTHLSTGDLLR	N-ter +28.03 Da, K +28.03 Da	24.3	54.5	4	2019.23	-0.42	0.06	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.25 - 0.75
LTAASEAACL	IVSVDETIKNPR	N-ter +34.06 Da, K +34.06 Da	20.4	39.9	3	1437.94	-1.22	0.26	TCPH_MOUSE		T-complex protein 1 subunit eta;	CCT-eta;	0.15 - 0.25
GVNIGGAGSY	IYEKPQTEAPQVTGPIEVPVVR	N-ter +34.06 Da, K +34.06 Da	47.0	52.9	4	2517.58	-1.94	0.75	CRIP2_MOUSE		Cysteine-rich protein 2;	Heart LIM protein;	0.00 - 0.15
VTHGQVGVGK	KAEAVATVVAAVDQAR	N-ter +28.03 Da, K +28.03 Da	56.0	41.5	3	1654.01	-0.81	0.09	TITIN_MOUSE	E9Q8M7_MOUSE	Titin;	Connectin;	0.15 - 0.25
DGRADAEVLR	KAMKGLGTDEDSILNLLTSR	N-ter +28.03 Da, K +28.03 Da	33.3	76.9	4	2245.41	0.87	0.15	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
QNAILVRYTQ	KAPQVSTPTLVEAAR	N-ter +28.03 Da, K +28.03 Da	45.6	37.7	3	1623.00	0.11	0.01	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
KIREGEVEVL	KATEMVEVGPEDDEVGAER	N-ter +28.03 Da, K +28.03 Da	65.0	42.4	3	2116.09	-0.29	0.04	PTRF_MOUSE		Polymerase I and transcript release factor;	Cav-p60;Cavin-1;	0.25 - 0.75
APPWKDSKKF	KDAPDGPTVVLTVDGR	N-ter +28.03 Da, K +28.03 Da	37.9	46.6	3	1695.00	-6.64	0.00	FA12_MOUSE	F6WLH2_MOUSE	Coagulation factor XII;	Hageman factor;	0.00 - 0.15
DEPQSQWDKV	KDFANVYVDAVKDSGR	N-ter +28.03 Da, K +28.03 Da	26.1	63.2	4	1867.10	-0.45	0.05	APOA1_MOUSE	Q8BPD5_MOUSE	Apolipoprotein A-I;	Apolipoprotein A1;	0.25 - 0.75
YKNSKFHRVI	KDFMIQGGDFTR	N-ter +34.06 Da, K +34.06 Da	32.3	50.3	3	1481.87	-3.47	0.77	PPIB_MOUSE		Peptidyl-prolyl cis-trans isomerase B;	CYP-S1;Cyclophilin B;Rotamase B;S-cyclophilin;	0.00 - 0.15
LNCESFKQRR	KDGDFICPSDTSSVCGTDGKTYR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	50.2	60.8	4	2649.37	0.01	0.00	Q148R4_MOUSE	Q8BM18_MOUSE			0.25 - 0.75
CSASNRIIAA	KDHASIQMNVAEVDR	N-ter +34.06 Da, K +34.06 Da	60.4	55.4	3	1780.06	-1.52	0.35	RS21_MOUSE		40S ribosomal protein S21;		0.00 - 0.15
AGELHLEICL	KDLEEDHACIPIKKSDPVVSYR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	35.3	59.8	4	2734.73	-0.01	0.00	EF2_MOUSE		Elongation factor 2;		0.25 - 0.75
AGDEESYTVF	KDLFDPIIQDR	N-ter +28.03 Da, K +28.03 Da	29.7	61.9	3	1414.87	0.31	0.03	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
LSKRPEEPPR	KDPSSNDPLTETIR	N-ter +28.03 Da, K +28.03 Da	24.1	65.1	3	1627.95	1.37	0.09	MUG1_MOUSE		Murinoglobulin-1;		0.75 - 0.85
LPMMQAISNN	KDQGGYEDFVEGLR	N-ter +34.06 Da, K +34.06 Da	36.0	49.0	3	1679.96	0.03	0.01	E9PWG4_MOUSE	MYL1_MOUSE			0.25 - 0.75
FLDTCCKAAD	KDTCFSTEGPNLVTR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	51.0	53.3	3	1779.98	0.32	0.07	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
MAF	KDTGKTPVEPEVAIHR	N-ter +28.03 Da, K +28.03 Da	32.1	56.0	4	1860.15	1.81	0.34	RS20_MOUSE		40S ribosomal protein S20;		0.85 - 1.00
CLLYRGDVIP	KDVNAAIATIKTKR	N-ter +28.03 Da, K +28.03 Da	29.7	63.9	4	1640.14	0.45	0.09	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
MFDQTQIQEF	KEAFTVIDQNR	N-ter +28.03 Da, K +28.03 Da	27.1	46.6	3	1375.81	-1.43	0.23	MLRS_MOUSE	F6ULR7_MOUSE	Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.15 - 0.25
TQDHISSVKY	KEAIGQGTPIPDLPEVKR	N-ter +28.03 Da, K +28.03 Da	37.9	62.2	4	2031.30	1.66	0.09	A2AQB2_MOUSE	A2AQA9_MOUSE			0.85 - 1.00
KLATDLTKVN	KECCHGDLLECADDR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	27.7	70.9	4	1945.01	0.07	0.02	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
NESEKRELVF	KEDGQEYAQVIKMLGNGR	N-ter +34.06 Da, K +34.06 Da	27.0	70.2	4	2137.36	-1.74	0.17	IF1AX_MOUSE	IF1A_MOUSE	Eukaryotic translation initiation factor 1A, X-chromosomal;	Eukaryotic translation initiation factor 4C;	0.00 - 0.15
NQKNFSSVLY	KEDVSPGTAIGKTPEMLR	N-ter +28.03 Da, K +28.03 Da	36.3	54.8	4	2012.21	0.33	0.02	A2AQB2_MOUSE	A2AQA9_MOUSE			0.25 - 0.75
EKSKLDWESF	KEEEGIGEELAIHNR	N-ter +28.03 Da, K +28.03 Da	19.4	55.6	4	1779.02	-0.18	0.02	CFDP1_MOUSE		Craniofacial development protein 1;	27 kDa craniofacial protein;Bucentaur;Protein Cp27;	0.25 - 0.75
QSELQSQVRY	KEEFEKNKGKGFSVVADTPELQR	N-ter +34.06 Da, K +34.06 Da	32.8	65.8	4	2805.86	-0.06	0.02	LASP1_MOUSE	A2A6G6_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.25 - 0.75
ALEPALSAQA	KEELAAAMVR	N-ter +34.06 Da, K +34.06 Da	18.1	91.8	3	1184.83	0.31	0.05	RASL3_MOUSE	D3Z6Z7_MOUSE	RAS protein activator like-3;		0.25 - 0.75
DEATDGGGDN	KEGEDSSVIHYDDKAIER	N-ter +28.03 Da, K +28.03 Da	31.2	60.2	4	2174.22	0.38	0.09	CHD4_MOUSE	E9QAS5_MOUSE	Chromodomain-helicase-DNA-binding protein 4;		0.25 - 0.75
SLARELSGTI	KEILGTAQSVGCNVDGR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	57.9	41.8	3	1871.10	-0.67	0.16	RL12_MOUSE		60S ribosomal protein L12;		0.25 - 0.75
NIGVTAVAFN	KELDPVQKLFVDKIR	N-ter +34.06 Da, K +34.06 Da	18.4	71.7	4	1963.46	0.47	0.08	ATP5J_MOUSE	E9QAD6_MOUSE	ATP synthase-coupling factor 6, mitochondrial;		0.25 - 0.75
DMEVKVQKSS	KELEDMNQKLFDLR	N-ter +34.06 Da, K +34.06 Da	40.9	56.0	4	1880.20	-1.22	0.20	TNNI2_MOUSE	A2A6K0_MOUSE	Troponin I, fast skeletal muscle;	Troponin I, fast-twitch isoform;	0.15 - 0.25
AEQEELERQM	KELQAANENKQQELESVR	N-ter +28.03 Da, K +28.03 Da	42.1	53.9	4	2197.29	0.15	0.03	SWP70_MOUSE		Switch-associated protein 70;		0.25 - 0.75
QQMTSSYGGY	KEPAAPVSIQR	N-ter +28.03 Da, K +28.03 Da	23.6	47.3	3	1250.79	-0.06	0.01	LASP1_MOUSE	A2A6H0_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.25 - 0.75
DLSAIKIEFS	KEQQEDFKEAFLLFDR	N-ter +34.06 Da, K +34.06 Da	28.4	60.8	4	2144.33	-5.64	0.00	MYL1_MOUSE	E0CZ30_MOUSE	Myosin light chain 1/3, skeletal muscle isoform;	Myosin light chain alkali 1/2;	0.00 - 0.15
LLTKLPGYPV	KEVKCDMEVSCPEGYTCCR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	46.7	55.2	4	2491.21	2.30	0.73	GRN_MOUSE	Q3U9N4_MOUSE	Granulins;	PC cell-derived growth factor;Proepithelin;	0.85 - 1.00
LEEVTMKQIC	KEVYENYPAYDLTER	N-ter +34.06 Da, K +34.06 Da	41.4	42.1	3	1957.09	-1.52	0.26	DEK_MOUSE		Protein DEK;		0.00 - 0.15
QEHEKGVRSW	KGDDSPVANGAEPAGQR	N-ter +28.03 Da, K +28.03 Da	27.8	33.1	3	1723.91	0.58	0.05	EPN3_MOUSE	E9Q1Q2_MOUSE	Epsin-3;	EPS-15-interacting protein 3;	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
EIVPVLVSSR	KGLTEVKIDEFPR	N-ter +28.03 Da, K +28.03 Da	38.1	68.6	4	1615.05	0.35	0.04	THIC_MOUSE	Q80X81_MOUSE	Acetyl-CoA acetyltransferase, cytosolic;	Cytosolic acetoacetyl-CoA thiolase;	0.25 - 0.75
ISMPDVDLNF	KGPKLKGEIDASVPEMEADLR	N-ter +28.03 Da, K +28.03 Da	26.6	81.5	4	2394.52	0.10	0.01	E9Q616_MOUSE				0.25 - 0.75
MSMN	KGPTLLDGDLPEQENVLQR	N-ter +28.03 Da, K +28.03 Da	46.8	59.5	4	2177.30	0.21	0.04	PLIN1_MOUSE		Perilipin-1;	Lipid droplet-associated protein;Perilipin A;	0.25 - 0.75
RIGRGGRFGR	KGVAINMVTEEDKR	N-ter +28.03 Da, K +28.03 Da	31.5	53.4	4	1673.01	-0.71	0.08	IF4A1_MOUSE		Eukaryotic initiation factor 4A-I;	ATP-dependent RNA helicase eIF4A-1;	0.25 - 0.75
AAAAAAVYTQ	KHSPQEAPHVQYER	N-ter +28.03 Da, K +28.03 Da	22.7	67.8	4	1761.02	0.63	0.11	CNTFR_MOUSE	Q9D586_MOUSE	Ciliary neurotrophic factor receptor subunit alpha;		0.25 - 0.75
DKSNIKAAWG	KIGGHGAEYGAEALER	N-ter +34.06 Da, K +34.06 Da	33.7	53.9	4	1725.04	-0.97	0.08	HBA_MOUSE	Q91VB8_MOUSE	Hemoglobin subunit alpha;	Alpha-globin;Hemoglobin alpha chain;	0.15 - 0.25
NSSPSAKDIK	KILDSVGIEADDDR	N-ter +28.03 Da, K +28.03 Da	40.3	48.1	3	1600.91	-0.89	0.15	RLA2_MOUSE		60S acidic ribosomal protein P2;		0.15 - 0.25
QSNVNLAKFR	KIQHELEEAEER	N-ter +34.06 Da, K +34.06 Da	27.7	50.3	4	1577.95	-2.56	0.45	MYH4_MOUSE	MYH1_MOUSE	Myosin-4;	Myosin heavy chain 2b;Myosin heavy chain 4;	0.00 - 0.15
QDAYVLLSEK	KISSVQSIVPALEIANAHR	N-ter +28.03 Da, K +28.03 Da	46.6	59.8	4	2088.33	1.36	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
EDTMTEVKAY	KKELEEQLGPVAEETR	N-ter +28.03 Da, K +28.03 Da	28.1	58.3	4	1939.18	0.06	0.00	APOE_MOUSE	E9Q327_MOUSE	Apolipoprotein E;		0.25 - 0.75
STFKNTEISF	KLGVEFDEITADDR	N-ter +28.03 Da, K +28.03 Da	30.3	55.0	3	1662.94	0.45	0.10	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
DYISDLDQLR	KLLSYVDDEAFIR	N-ter +28.03 Da, K +28.03 Da	37.8	56.5	3	1623.98	-1.22	0.11	PYGM_MOUSE	E9PUM3_MOUSE	Glycogen phosphorylase, muscle form;	Myophosphorylase;	0.15 - 0.25
QRGAAVIKAR	KLSSAMSAAKAIADHIR	N-ter +28.03 Da, K +28.03 Da	29.5	63.5	4	1853.17	0.51	0.05	MDHC_MOUSE		Malate dehydrogenase, cytoplasmic;	Cytosolic malate dehydrogenase;	0.25 - 0.75
SDRKYEEVAR	KLVILEGELER	N-ter +28.03 Da, K +28.03 Da	35.6	50.0	3	1353.89	2.20	0.24	TPM2_MOUSE	A2AIM4_MOUSE	Tropomyosin beta chain;	Beta-tropomyosin;Tropomyosin-2;	0.85 - 1.00
GPSAGDVEAI	KNAIANASTLAEVER	N-ter +34.06 Da, K +34.06 Da	34.6	48.6	3	1654.05	0.15	0.02	RU2A_MOUSE		U2 small nuclear ribonucleoprotein A';		0.25 - 0.75
M	KNPFAHLAEPLDAAQPGKR	N-ter +34.06 Da, K +34.06 Da	68.8	74.4	4	2292.50	0.23	0.02	ACOC_MOUSE	Q8VDC3_MOUSE	Cytoplasmic aconitate hydratase;	Citrate hydro-lyase;Iron regulatory protein 1;Iron-responsive element-binding protein 1;	0.25 - 0.75
MKKKILAERR	KPLNIDHLSDDKLR	N-ter +34.06 Da, K +34.06 Da	19.1	49.1	4	1765.18	-1.74	0.35	TNNT3_MOUSE	A2A6J0_MOUSE	Troponin T, fast skeletal muscle;	Fast skeletal muscle troponin T;	0.00 - 0.15
M	KPPAACAGDVVDAASPASTVNHLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	71.6	58.0	4	2459.40	0.99	0.20	THOP1_MOUSE		Thimet oligopeptidase;		0.75 - 0.85
LSTFQQMWIS	KQEYDEAGPSIVHR	N-ter +28.03 Da, K +28.03 Da	49.0	63.6	4	1683.97	-0.52	0.09	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.25 - 0.75
LSTFQQMWIS	KQEYDESGPSIVHR	N-ter +28.03 Da, K +28.03 Da	44.4	62.0	4	1699.96	0.55	0.07	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.25 - 0.75
DTGMNHHLLL	KQFEHLNHQNPNTFESR	N-ter +28.03 Da, K +28.03 Da	32.4	65.9	4	2181.22	3.24	1.37	NUCB2_MOUSE		Nucleobindin-2;	DNA-binding protein NEFA;	0.85 - 1.00
LDPEGKGTIK	KQFLEELLTTQCDR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	55.0	56.6	3	1836.05	0.66	0.13	MLRS_MOUSE		Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.25 - 0.75
FKRSTPFFNW	KQIEGSDLSSLQKR	N-ter +28.03 Da, K +28.03 Da	38.0	47.6	4	1672.03	-0.45	0.05	DMKN_MOUSE	E9QLW7_MOUSE	Dermokine;	Epidermis-specific secreted protein SK30/SK89;	0.25 - 0.75
FVREPPIMVT	KQLEDMNAYCGER	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	38.7	57.0	3	1680.92	-4.06	0.68	D3YU50_MOUSE	Q6P6L5_MOUSE			0.00 - 0.15
AGLILPGILA	KSIGTLSDPCKDPTR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	20.1	55.8	4	1776.13	0.53	0.14	CDSN_MOUSE		Corneodesmosin;		0.25 - 0.75
ATAASSSSLE	KSYELPDGQVITIGNER	N-ter +28.03 Da, K +28.03 Da	46.6	48.4	3	1974.14	1.84	0.31	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.85 - 1.00
EINRVYKEMY	KTDLEKDIISDTSGDFR	N-ter +28.03 Da, K +28.03 Da	38.6	61.3	4	2023.17	0.41	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
DFHLLLNEVN	KTDPGIILKTENR	N-ter +28.03 Da, K +28.03 Da	23.8	54.2	4	1568.01	-1.29	0.19	Q3UWK8_MOUSE				0.15 - 0.25
NLHASNTRLQ	KTGTAEMSSILEER	N-ter +34.06 Da, K +34.06 Da	45.9	48.5	3	1618.97	-0.40	0.08	ATPA_MOUSE	D6RJ16_MOUSE	ATP synthase subunit alpha, mitochondrial;		0.25 - 0.75
HLEEVVLAML	KTPAQFDADELR	N-ter +28.03 Da, K +28.03 Da	43.4	54.9	3	1445.83	0.77	0.05	ANXA1_MOUSE	E9QA30_MOUSE	Annexin A1;	Annexin I;Annexin-1;Calpactin II;Calpactin-2;Chromobindin-9;Lipocortin I;Phospholipase A2 inhibitory protein;p35;	0.25 - 0.75
EEGPSRKDGN	KVDVVGATQGQAGSCSR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	55.0	41.3	3	1774.97	1.52	0.39	IF4B_MOUSE	Q3TDD8_MOUSE	Eukaryotic translation initiation factor 4B;		0.75 - 0.85
GILHENFQTL	KVEDNFEDIITKPPVR	N-ter +28.03 Da, K +28.03 Da	32.0	56.0	4	1983.21	1.36	0.14	DC1L1_MOUSE		Cytoplasmic dynein 1 light intermediate chain 1;	Dynein light chain A;Dynein light intermediate chain 1, cytosolic;	0.75 - 0.85
AKLSDGVAVL	KVGGTSDVEVNEKKDR	N-ter +28.03 Da, K +28.03 Da	27.0	73.6	4	1872.17	2.31	0.70	CH60_MOUSE		60 kDa heat shock protein, mitochondrial;	60 kDa chaperonin;Chaperonin 60;HSP-65;Heat shock protein 60;Mitochondrial matrix protein P1;	0.85 - 1.00
LSPMSVNAVM	KVIDPATATSVDLR	N-ter +28.03 Da, K +28.03 Da	42.7	43.6	3	1540.95	-0.03	0.00	TCPD_MOUSE		T-complex protein 1 subunit delta;	A45;CCT-delta;	0.25 - 0.75
SINQGLDRLR	KVSHQGYGSTTEFEEPR	N-ter +28.03 Da, K +28.03 Da	22.4	63.1	4	2007.10	-0.34	0.10	AMRP_MOUSE	F6WMD1_MOUSE	Alpha-2-macroglobulin receptor-associated protein;	Heparin-binding protein 44;Low density lipoprotein receptor-related protein-associated protein 1;	0.25 - 0.75
NPNRVAQTTK	KVTQLDLDGPKELSR	N-ter +28.03 Da, K +28.03 Da	26.9	57.0	4	1782.13	-0.74	0.14	HAP28_MOUSE		28 kDa heat- and acid-stable phosphoprotein;	PDGF-associated protein;PDGFA-associated protein 1;	0.25 - 0.75
RQELKARARY	LAEKYEWDVAEAR	N-ter +34.06 Da, K +34.06 Da	30.4	48.5	3	1646.97	-1.74	0.29	EF2_MOUSE		Elongation factor 2;		0.00 - 0.15
EQMRESLAQR	LAELKSNPTLNEYHTR	N-ter +28.03 Da, K +28.03 Da	33.0	55.3	4	1941.14	0.39	0.04	APOA1_MOUSE	Q8BPD5_MOUSE	Apolipoprotein A-I;	Apolipoprotein A1;	0.25 - 0.75
KMSPAKSIND	LAPPEWDWR	N-ter +28.03 Da	27.6	63.3	2	1196.67	1.21	0.19	CATF_MOUSE		Cathepsin F;		0.75 - 0.85
FDMTSKFLTA	LAQDGVINEEALSVTELDR	N-ter +28.03 Da	59.4	38.5	3	2099.16	0.64	0.14	PDC6I_MOUSE	B8JJL8_MOUSE	Programmed cell death 6-interacting protein;	ALG-2-interacting protein 1;ALG-2-interacting protein X;E2F1-inducible protein;Eig2;	0.25 - 0.75
DALKRGLREH	LCEQQAELDYLCGR	N-ter +34.06 Da, C +57.02 Da	34.0	79.0	3	1787.98	-3.32	1.00	FA65C_MOUSE		Protein FAM65C;		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
DQAGRFHVNL	LCGEEQGADAALHFNPR	N-ter +28.03 Da, C +57.02 Da	66.1	52.8	3	1911.99	-0.54	0.16	Q9CRB1_MOUSE	LEG7_MOUSE			0.25 - 0.75
NRVMMVAKKF	LDAGHKLNFAVASR	N-ter +34.06 Da, K +34.06 Da	25.3	60.8	4	1566.03	-2.56	0.30	PDIA3_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;	0.00 - 0.15
SASGTTLLEA	LDCILPPTRPTDKPLR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	21.0	49.5	4	1959.26	-2.40	0.13	EF1A1_MOUSE	D3YZ68_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.00 - 0.15
LSYSKIKHLR	LDGNPLTQSSLPPDMYECLR	N-ter +28.03 Da, C +57.02 Da	42.8	54.1	3	2333.23	3.62	0.20	LUM_MOUSE		Lumican;	Keratan sulfate proteoglycan lumican;	0.85 - 1.00
ADTFLEHMCR	LDIDSAPITAR	N-ter +28.03 Da	40.8	35.9	2	1198.70	0.88	0.08	KPYM_MOUSE		Pyruvate kinase isozymes M1/M2;	Pyruvate kinase muscle isozyme;	0.25 - 0.75
PLQKERGVKL	LDISELNTVGAGR	N-ter +28.03 Da	29.5	41.0	3	1371.79	0.03	0.00	NELFA_MOUSE		Negative elongation factor A;	Wolf-Hirschhorn syndrome candidate 2 homolog;	0.25 - 0.75
LAKMFKPQAL	LDKAKTNQGWLDSSR	N-ter +34.06 Da, K +34.06 Da	27.2	54.7	4	1820.16	-2.84	0.20	FERM2_MOUSE	A6X941_MOUSE	Fermitin family homolog 2;	Kindlin-2;Pleckstrin homology domain-containing family C member 1;	0.00 - 0.15
QHHDYNTYTF	LDLNLDLSKFR	N-ter +28.03 Da, K +28.03 Da	24.5	59.3	3	1388.89	-5.64	2.82	NDUV3_MOUSE	Q3U422_MOUSE	NADH dehydrogenase [ubiquinone] flavoprotein 3, mitochondrial;	Complex I-9kD;NADH-ubiquinone oxidoreductase 9 kDa subunit;	0.00 - 0.15
PSPGEALIHL	LDLPCTPPPPAPIPSVR	N-ter +28.03 Da, C +57.02 Da	46.7	48.9	3	1854.10	1.66	0.19	AP1G2_MOUSE		AP-1 complex subunit gamma-like 2;	Gamma2-adaptin;	0.85 - 1.00
SGTRSRSELC	LDLPEAPDDPAALETR	N-ter +28.03 Da	29.6	41.7	3	1749.95	-0.52	0.07	KANK2_MOUSE		KN motif and ankyrin repeat domain-containing protein 2;	Ankyrin repeat domain-containing protein 25;	0.25 - 0.75
GLPTSLLTLY	LDNNKISNIPDEYFKR	N-ter +28.03 Da, K +28.03 Da	25.9	57.8	4	2049.21	0.71	0.12	LUM_MOUSE		Lumican;	Keratan sulfate proteoglycan lumican;	0.25 - 0.75
EKKSAAFAKI	LDPAYQVDKGGKVR	N-ter +34.06 Da, K +34.06 Da	19.9	59.6	4	1647.12	-3.18	0.58	D3YU50_MOUSE	Q6P6L5_MOUSE			0.00 - 0.15
SPSAKDIKKI	LDSVGIEADDDR	N-ter +28.03 Da	51.9	45.7	2	1331.68	-1.03	0.08	RLA2_MOUSE		60S acidic ribosomal protein P2;		0.15 - 0.25
KTVMDDFAQF	LDTCCKAADKDTCFSTEGPNLVTR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	42.0	61.2	4	2842.50	2.87	0.86	ALBU_MOUSE		Serum albumin;		0.85 - 1.00
NASGVSLLEA	LDTILPPTRPTDKPLR	N-ter +34.06 Da, K +34.06 Da	25.3	39.9	4	1900.25	-2.74	0.18	EF1A2_MOUSE	B7ZBW3_MOUSE	Elongation factor 1-alpha 2;	Eukaryotic elongation factor 1 A-2;Statin-S1;	0.00 - 0.15
KGQWLTLEAP	LDTINVHLR	N-ter +28.03 Da	32.0	55.6	3	1107.70	-0.01	0.01	LYAG_MOUSE		Lysosomal alpha-glucosidase;	Acid maltase;	0.25 - 0.75
VEPEMLPTQV	LDTYQEATVEKKTLR	N-ter +34.06 Da, K +34.06 Da	22.6	52.8	4	1896.24	-1.64	0.21	TITIN_MOUSE	F6ZVZ7_MOUSE	Titin;	Connectin;	0.00 - 0.15
TGTGTLLLVL	LDVNDNAPIPEPR	N-ter +28.03 Da	29.6	63.9	3	1476.85	2.84	0.31	CADH1_MOUSE		Cadherin-1;	ARC-1;Epithelial cadherin;Uvomorulin;	0.85 - 1.00
HGHHPHGHDF	LDYGPCDPPSNSQELKGQYHR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	31.2	60.5	4	2516.33	-0.20	0.04	HRG_MOUSE		Histidine-rich glycoprotein;	Histidine-proline-rich glycoprotein;	0.25 - 0.75
KDGSASGTTL	LEALDCILPPTRPTDKPLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	38.3	61.3	4	2260.40	-2.74	0.18	EF1A1_MOUSE	D3YZ68_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.00 - 0.15
KEGNASGVSL	LEALDTILPPTRPTDKPLR	N-ter +34.06 Da, K +34.06 Da	39.5	63.3	4	2213.48	-3.84	0.55	EF1A2_MOUSE	B7ZBW3_MOUSE	Elongation factor 1-alpha 2;	Eukaryotic elongation factor 1 A-2;Statin-S1;	0.00 - 0.15
VVLDPMYSTY	LEALGIKEGTIPPEYR	N-ter +28.03 Da, K +28.03 Da	27.0	50.4	3	1841.12	-0.45	0.02	ICAL_MOUSE	Q921U7_MOUSE	Calpastatin;	Calpain inhibitor;	0.25 - 0.75
PLLLCEGAQA	LECYSCVQKADDGCSPHR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	58.1	66.8	4	2237.12	2.97	0.93	LYPD3_MOUSE		Ly6/PLAUR domain-containing protein 3;	GPI-anchored metastasis-associated protein C4.4A homolog;	0.85 - 1.00
EGKGTIKKQF	LEELLTTQCDR	N-ter +34.06 Da, C +57.02 Da	24.8	31.1	3	1410.77	-1.56	0.18	MLRS_MOUSE		Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.00 - 0.15
DFDENDILRE	LEELSLEAQGIR	N-ter +28.03 Da	31.0	47.8	3	1384.82	0.20	0.02	IF2P_MOUSE		Eukaryotic translation initiation factor 5B;	Translation initiation factor IF-2;	0.25 - 0.75
NDAYGPPSNF	LEIDVSNPQTVGVGR	N-ter +34.06 Da	34.9	42.3	3	1616.96	-1.12	0.12	SNX3_MOUSE	Q78ZM0_MOUSE	Sorting nexin-3;	SDP3 protein;	0.15 - 0.25
YRIWRDTANW	LEINPETGAIFTR	N-ter +28.03 Da	42.0	41.4	3	1487.86	-2.00	0.24	CADH1_MOUSE		Cadherin-1;	ARC-1;Epithelial cadherin;Uvomorulin;	0.00 - 0.15
TFLRKMHHVL	LEVDVLEGTLQCPESGR	N-ter +28.03 Da, C +57.02 Da	43.0	44.6	3	1929.04	0.37	0.08	TR112_MOUSE		tRNA methyltransferase 112 homolog;	TRM112-like protein;	0.25 - 0.75
AANCDKSLHT	LFGDKLCAIPNLR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	15.0	51.2	3	1584.03	-0.32	0.04	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
LPEGTTPEKY	LGAEYMQSVGNMR	N-ter +28.03 Da	24.6	68.4	3	1482.80	-0.12	0.01	TRFE_MOUSE	E9Q035_MOUSE	Serotransferrin;	Beta-1 metal-binding globulin;Siderophilin;	0.25 - 0.75
SPASHEIATN	LGDFAISLYR	N-ter +34.06 Da	15.0	43.3	2	1187.73	0.66	0.17	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
TVKTTVFSCN	LGEKFDETTADGR	N-ter +28.03 Da, K +28.03 Da	24.1	58.0	3	1493.82	-6.64	0.00	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;	0.00 - 0.15
DAQSVLDAKE	LGMEERPYSSR	N-ter +34.06 Da	22.4	111.3	3	1357.84	-3.64	0.91	ARHL2_MOUSE		Poly(ADP-ribose) glycohydrolase ARH3;	ADP-ribosylhydrolase 3;[Protein ADP-ribosylarginine] hydrolase-like protein 2;	0.00 - 0.15
PEPQQVGTVS	LHLGVTPSVLR	N-ter +34.06 Da	27.6	51.6	3	1224.84	-0.18	0.05	TPP1_MOUSE		Tripeptidyl-peptidase 1;	Lysosomal pepstatin-insensitive protease;Tripeptidyl aminopeptidase;Tripeptidyl-peptidase I;	0.25 - 0.75
RALGVRDWRR	LHTVYQSVELPETHQMLR	N-ter +34.06 Da	38.5	50.5	4	2214.28	0.71	0.10	ACADS_MOUSE		Short-chain specific acyl-CoA dehydrogenase, mitochondrial;	Butyryl-CoA dehydrogenase;	0.25 - 0.75
KHKTDLNHEN	LKGGDDLDPNYVLSSR	N-ter +34.06 Da, K +34.06 Da	46.8	37.1	3	1816.07	-1.12	0.12	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.15 - 0.25
GQLLCSCALA	LKGGMLFPKESPSR	N-ter +28.03 Da, K +28.03 Da	26.8	57.1	4	1630.02	-0.18	0.03	BGLR_MOUSE	Q99KJ6_MOUSE	Beta-glucuronidase;		0.25 - 0.75
GCLVLPGYEA	LKGPKEISGFEGDTVSLR	N-ter +28.03 Da, K +28.03 Da	27.5	86.1	4	2016.30	-0.45	0.07	CLM9_MOUSE		CMRF35-like molecule 9;	CD300 antigen-like family member G;Nepmucin;	0.25 - 0.75
EIDGGLETLR	LKLPAVVTADLR	N-ter +28.03 Da, K +28.03 Da	35.3	46.2	3	1350.92	2.40	0.36	ETFB_MOUSE		Electron transfer flavoprotein subunit beta;		0.85 - 1.00
PDQAGRFHVN	LLCGEEQGADAALHFNPR	N-ter +28.03 Da, C +57.02 Da	68.4	54.2	3	2025.08	0.85	0.33	LEG7_MOUSE	Q9CRB1_MOUSE	Galectin-7;		0.25 - 0.75
KKILAERRKP	LNIDHLSDDKLR	N-ter +34.06 Da, K +34.06 Da	25.4	59.2	4	1505.97	-1.64	0.41	TNNT3_MOUSE	A2A6J0_MOUSE	Troponin T, fast skeletal muscle;	Fast skeletal muscle troponin T;	0.00 - 0.15
QVLVQGSSSN	LPDTSIPGGSTPTVQVTPQLETR	N-ter +28.03 Da	46.5	54.4	3	2421.41	-2.12	0.46	PGBM_MOUSE	B1B0C7_MOUSE	Basement membrane-specific heparan sulfate proteoglycan core protein;		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
PRKIISLSQL	LQEDSLNVADLSSLR	N-ter +28.03 Da	54.5	43.4	3	1686.95	0.40	0.06	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
SRDGKALEQF	LQEYFDGNLKR	N-ter +34.06 Da, K +34.06 Da	28.9	40.1	3	1449.88	-1.60	0.34	PDIA3_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;	0.00 - 0.15
ARRQHLKSVM	LQIAATELEKEESR	N-ter +28.03 Da, K +28.03 Da	23.3	57.4	3	1672.00	0.62	0.07	TNNI2_MOUSE	A2A6K0_MOUSE	Troponin I, fast skeletal muscle;	Troponin I, fast-twitch isoform;	0.25 - 0.75
PAAGMRRRRR	LQQEDGISFEYHR	N-ter +28.03 Da	31.2	49.6	3	1648.87	0.38	0.06	CBPE_MOUSE		Carboxypeptidase E;	Carboxypeptidase H;Enkephalin convertase;Prohormone-processing carboxypeptidase;	0.25 - 0.75
DESTGSIAKR	LQSIGTENTEENRR	N-ter +28.03 Da	26.1	49.8	3	1673.92	2.72	0.38	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.85 - 1.00
DESTGSIAKR	LQSIGTENTEENR	N-ter +28.03 Da	33.7	48.0	3	1517.80	0.52	0.04	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
NTFYSNKEIF	LRELISNASDALDKIR	N-ter +28.03 Da, K +28.03 Da	38.2	59.1	4	1869.18	0.32	0.05	HS90B_MOUSE	ENPL_MOUSE	Heat shock protein HSP 90-beta;	Heat shock 84 kDa;Tumor-specific transplantation 84 kDa antigen;	0.25 - 0.75
FGDKLCAIPN	LRENYGELADCCTKQEPER	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	45.9	63.2	4	2423.27	0.43	0.10	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
LPLPTFSSLN	LRETNLESLPLVDTHSKR	N-ter +28.03 Da, K +28.03 Da	24.4	60.9	4	2163.33	1.48	0.20	VIME_MOUSE	E9PZV5_MOUSE	Vimentin;		0.75 - 0.85
ALSVLPDSRA	LRPGDCEVCISYLGR	N-ter +34.06 Da, C +57.02 Da	55.3	52.9	3	1828.02	0.74	0.20	MANF_MOUSE	Q3TMX5_MOUSE	Mesencephalic astrocyte-derived neurotrophic factor;	Arginine-rich protein;Protein ARMET;	0.25 - 0.75
DIEPVEGRYM	LSGGSDGVVVLYDLENASR	N-ter +28.03 Da	27.3	51.2	3	1978.10	-0.42	0.08	ERCC8_MOUSE	D3YU16_MOUSE	DNA excision repair protein ERCC-8;	Cockayne syndrome WD repeat protein CSA homolog;	0.25 - 0.75
KAEEEKGHDL	LSKVTILKNR	N-ter +28.03 Da, K +28.03 Da	17.8	65.9	3	1254.92	6.71	1.67	FIL1L_MOUSE	E0CYM1_MOUSE	Filamin A-interacting protein 1-like;	Protein down-regulated in ovarian cancer 1 homolog;	0.85 - 1.00
FQLIGIQDGY	LSLLQDSGEVR	N-ter +34.06 Da	25.7	38.8	2	1249.76	-2.84	0.20	IF5A1_MOUSE		Eukaryotic translation initiation factor 5A-1;	Eukaryotic initiation factor 5A isoform 1;eIF-4D;	0.00 - 0.15
LLVTLQCSHA	LSPTNCDASEPLAEKVLDLINKGR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	39.7	58.9	4	2741.71	0.93	0.47	HRG_MOUSE		Histidine-rich glycoprotein;	Histidine-proline-rich glycoprotein;	0.25 - 0.75
RVAPEEHPTL	LTEAPLNPKANR	N-ter +28.03 Da, K +28.03 Da	23.0	57.1	3	1378.87	1.91	0.35	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.85 - 1.00
LLIATGPTTA	LTEDEKQTMVDLHNQYR	N-ter +28.03 Da, K +28.03 Da	23.0	62.5	4	2175.20	0.42	0.11	PI16_MOUSE	D3Z6T6_MOUSE	Peptidase inhibitor 16;	Cysteine-rich protease inhibitor;	0.25 - 0.75
GDYIERLWAY	LTIEQLLEKR	N-ter +28.03 Da, K +28.03 Da	22.3	50.8	3	1297.86	3.50	1.38	ITIH3_MOUSE	F6ZXJ7_MOUSE	Inter-alpha-trypsin inhibitor heavy chain H3;		0.85 - 1.00
LLKNSPLVSR	LTLYDIAHTPGVAADLSHIETR	N-ter +28.03 Da	72.9	58.9	4	2420.41	-6.64	0.00	MDHM_MOUSE		Malate dehydrogenase, mitochondrial;		0.00 - 0.15
ALTITASVQA	LTPTHYLTKQDVER	N-ter +28.03 Da, K +28.03 Da	20.6	65.4	4	1756.07	-0.71	0.13	RPN2_MOUSE	A2ACG7_MOUSE	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 2;	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 63 kDa subunit;Ribophorin II;Ribophorin-2;	0.25 - 0.75
MEVNKRDIVF	LVDGSSSLGPSNFNAIR	N-ter +28.03 Da	29.1	46.8	3	1760.99	-0.52	0.03	E9PWQ3_MOUSE	D3YWD1_MOUSE			0.25 - 0.75
GMDDGSLERV	LVGELLTSLPEVDERPCR	N-ter +34.06 Da, C +57.02 Da	22.5	58.8	4	2116.27	-3.06	0.51	DEN5A_MOUSE		DENN domain-containing protein 5A;	Rab6-interacting protein 1;	0.00 - 0.15
ALEVQGRDSR	LVLEVAQHLGESTVR	N-ter +28.03 Da	46.9	48.5	3	1678.02	0.36	0.05	ATPB_MOUSE		ATP synthase subunit beta, mitochondrial;		0.25 - 0.75
TDQVIQFFIA	LVNDPQPEHPLR	N-ter +28.03 Da	38.9	49.5	3	1441.84	0.43	0.04	UB2L3_MOUSE		Ubiquitin-conjugating enzyme E2 L3;	UbcM4;Ubiquitin carrier protein L3;Ubiquitin-protein ligase L3;	0.25 - 0.75
EVGGEALGRL	LVVYPWTQR	N-ter +28.03 Da	17.4	31.2	2	1188.70	0.64	0.10	HBB1_MOUSE	HBB2_MOUSE	Hemoglobin subunit beta-1;	Beta-1-globin;Hemoglobin beta-1 chain;Hemoglobin beta-major chain;	0.25 - 0.75
GIWHNDNKSF	LVWVNEEDHLR	N-ter +28.03 Da	46.5	56.4	3	1436.82	-1.56	0.23	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
KGSVAGGAVY	LVYDQELLGPSDKSEAALR	N-ter +34.06 Da, K +34.06 Da	39.2	47.3	3	2171.31	-1.84	0.26	QIL1_MOUSE		Protein QIL1;		0.00 - 0.15
LRVPPRMDYR	LYLGHNYVTAIR	N-ter +28.03 Da	40.2	50.6	3	1446.87	1.62	0.22	TRFE_MOUSE	E9Q035_MOUSE	Serotransferrin;	Beta-1 metal-binding globulin;Siderophilin;	0.75 - 0.85
VLGKLPSLAF	LYMEKNQLEEVPSALPR	N-ter +34.06 Da, K +34.06 Da	20.1	45.1	3	2084.26	0.19	0.04	PRELP_MOUSE		Prolargin;	Proline-arginine-rich end leucine-rich repeat protein;	0.25 - 0.75
SCTFFLAVSG	LYSSSDDVIELTPSNFNR	N-ter +28.03 Da	49.6	50.8	3	2084.11	0.37	0.08	PDIA6_MOUSE	Q3TML0_MOUSE	Protein disulfide-isomerase A6;	Thioredoxin domain-containing protein 7;	0.25 - 0.75
EQKIGQPTLL	LYVDAGAETMTQR	N-ter +28.03 Da	45.1	54.3	3	1481.80	-0.36	0.06	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.25 - 0.75
AHHAFGQGRD	MAETFDQGAHHAFGQGGR	N-ter +28.03 Da	50.1	69.1	4	1944.00	0.29	0.07	SBSN_MOUSE	E9QPB2_MOUSE	Suprabasin;		0.25 - 0.75
AREHAPSIIF	MDEIDSIGSSR	N-ter +28.03 Da	32.8	38.2	2	1236.61	-0.29	0.02	PRS8_MOUSE	E9Q0L5_MOUSE	26S protease regulatory subunit 8;	26S proteasome AAA-ATPase subunit RPT6;Proteasome 26S subunit ATPase 5;Proteasome subunit p45;p45/SUG;	0.25 - 0.75
LKKAIKGLVV	MDSALEALSGSLLIGKVPEMWAKR	N-ter +28.03 Da, K +28.03 Da	20.9	38.2	4	2685.56	1.06	0.32	DYH12_MOUSE	F6V109_MOUSE	Dynein heavy chain 12, axonemal;	Axonemal beta dynein heavy chain 12;Axonemal dynein heavy chain 12-like protein;Axonemal dynein heavy chain 7-like protein;Ciliary dynein heavy chain 12;	0.75 - 0.85
SKMFEELKNR	MDVLAQEVALLKEK	N-ter +28.03 Da, K +28.03 Da	42.4	49.4	3	1670.05	-1.64	0.31	TETN_MOUSE	Q8CFZ6_MOUSE	Tetranectin;	C-type lectin domain family 3 member B;Plasminogen kringle 4-binding protein;	0.00 - 0.15
GKLPSLAFLY	MEKNQLEEVPSALPR	N-ter +34.06 Da, K +34.06 Da	42.4	43.0	3	1808.09	-0.01	0.00	PRELP_MOUSE		Prolargin;	Proline-arginine-rich end leucine-rich repeat protein;	0.25 - 0.75
KKPKFELGKL	MELHGEGGSSGKAAGDETGAKVER	N-ter +34.06 Da, K +34.06 Da	41.8	62.8	4	2474.45	-2.84	1.42	RS3A_MOUSE	D3Z7W7_MOUSE	40S ribosomal protein S3a;	Protein TU-11;	0.00 - 0.15
ETLFQPSFIG	MESAGIHETTYNSIMKCDIDIR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	33.9	62.6	4	2639.41	2.83	0.70	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.85 - 1.00
DTPKKQALYL	MFDTPQESPVKSPPVR	N-ter +28.03 Da, K +28.03 Da	33.3	41.7	3	1870.04	0.21	0.02	TACC2_MOUSE	E9Q8T1_MOUSE	Transforming acidic coiled-coil-containing protein 2;		0.25 - 0.75
TYGICRAIRR	MGESDDSILR	N-ter +28.03 Da	26.3	32.3	2	1149.57	0.35	0.04	RS21_MOUSE		40S ribosomal protein S21;		0.25 - 0.75
RPRHQGVMVG	MGQKDCYVGDEAQSKR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	26.0	63.4	4	1973.15	0.99	0.45	ACTBL_MOUSE		Beta-actin-like protein 2;	Kappa-actin;	0.75 - 0.85

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
RPRHQGVMVG	MGQKDSYVGDEAQSKR	N-ter +34.06 Da, K +34.06 Da	25.7	60.6	4	1900.14	1.08	0.30	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.75 - 0.85
SVILQHLRMS	MHTEAAEVLLER	N-ter +34.06 Da	44.1	52.8	3	1431.84	0.03	0.01	HIBCH_MOUSE	E0CX19_MOUSE	3-hydroxyisobutyryl-CoA hydrolase, mitochondrial;	3-hydroxyisobutyryl-coenzyme A hydrolase;	0.25 - 0.75
RELPVPYLTG	MILMGVTAFISIIDLCLQR	N-ter +28.03 Da, C +57.02 Da	26.4	76.9	4	2221.37	1.48	0.19	CLF2B_MOUSE		CKLF-like MARVEL transmembrane domain-containing protein 2B;	Chemokine-like factor superfamily member 2B;	0.75 - 0.85
AGNKLAMQEF	MILPVGASSFKEAMR	N-ter +34.06 Da, K +34.06 Da	34.6	49.3	3	1704.06	-0.06	0.01	ENOB_MOUSE	Q5SX59_MOUSE	Beta-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 3;Muscle-specific enolase;Skeletal muscle enolase;	0.25 - 0.75
	MKQLPILEPGDKPR	N-ter +28.03 Da, K +28.03 Da	26.2	56.8	4	1705.09	-0.20	0.02	RABEK_MOUSE	B0R0S4_MOUSE	Rab9 effector protein with kelch motifs;		0.25 - 0.75
	MKVFVTGPLPAEGR	N-ter +34.06 Da, K +34.06 Da	33.0	48.7	3	1569.02	-0.74	0.16	GRHPR_MOUSE	D6REG4_MOUSE	Glyoxylate reductase/hydroxypyruvate reductase;		0.25 - 0.75
TARRQHLKSV	MLQIAATELEKEESRR	N-ter +34.06 Da, K +34.06 Da	21.2	58.3	4	1971.22	-2.12	0.09	TNNI2_MOUSE	A2A6K0_MOUSE	Troponin I, fast skeletal muscle;	Troponin I, fast-twitch isoform;	0.00 - 0.15
QLSKTEFLSF	MNTELAAFTKNQKDPGVLDR	N-ter +28.03 Da, K +28.03 Da	26.5	56.1	4	2331.36	2.11	0.44	S10AB_MOUSE	F6SJ35_MOUSE	Protein S100-A11;	Calgizzarin;Endothelial monocyte-activating polypeptide;Protein S100-C;S100 calcium-binding protein A11;	0.85 - 1.00
ILAQMTGTEY	MQDPDEEALRR	N-ter +34.06 Da	27.3	57.3	3	1392.77	0.33	0.07	LDB3_MOUSE	E9PYJ9_MOUSE	LIM domain-binding protein 3;	Protein cypher;Protein oracle;Z-band alternatively spliced PDZ-motif protein;	0.25 - 0.75
TTMYPGIADR	MQKEITALAPSTMKIKIIAPPER	N-ter +28.03 Da, K +28.03 Da	41.1	62.4	4	2677.73	2.31	0.36	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.85 - 1.00
TTMYPGIADR	MQKEITALAPSTMKIK	N-ter +28.03 Da, K +28.03 Da	30.7	56.9	4	1901.22	3.79	0.81	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.85 - 1.00
TTMYPGIADR	MQKEITALAPSTMK	N-ter +28.03 Da, K +28.03 Da	44.6	41.7	3	1631.97	0.75	0.09	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
RIALQEDTNR	MSANALAIVFAPCILR	N-ter +28.03 Da, C +57.02 Da	19.0	63.2	3	1774.08	-0.14	0.02	MYO9A_MOUSE	D3Z3A8_MOUSE	Myosin-IXa;	Unconventional myosin-9a;	0.25 - 0.75
NSGSLSVEEF	MSLPELQQNPLVQR	N-ter +28.03 Da	35.9	43.7	3	1679.98	0.60	0.04	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 +28.03 Da, K +28.03 Da	57.6	48.5	3	2481.29	-3.18	0.87	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
IVGRPRHQGV	MVGMGQKDSYVGDEAQSKR	N-ter +28.03 Da, K +28.03 Da	23.5	71.4	4	2169.21	0.07	0.02	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.25 - 0.75
DHHIVTPLTA	MVIENDAGDER	N-ter +28.03 Da	33.0	33.7	2	1275.62	1.38	0.08	ITIH2_MOUSE		Inter-alpha-trypsin inhibitor heavy chain H2;		0.75 - 0.85
ISKEWGFTKF	NADEFEDMVAEKR	N-ter +28.03 Da, K +28.03 Da	25.5	51.8	3	1608.83	-0.22	0.05	RL10_MOUSE		60S ribosomal protein L10;	Protein QM homolog;	0.25 - 0.75
TIKKRLETYY	NATEPVISFYDKR	N-ter +28.03 Da, K +28.03 Da	34.8	44.3	3	1594.91	-0.38	0.05	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.25 - 0.75
TGGRTTWART	NATLSVEPEGR	N-ter +28.03 Da	42.5	38.0	2	1199.66	-0.47	0.05	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
FGVCHIFASF	NDTFVHVTDLSGKETICR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	25.3	64.1	4	2147.21	-0.07	0.01	RS14_MOUSE	D3YVF4_MOUSE	40S ribosomal protein S14;		0.25 - 0.75
FSKYLALNGR	NDVGVTSASLPAPGPSR	N-ter +28.03 Da	25.5	56.9	3	1651.95	-0.79	0.03	E9Q2R7_MOUSE				0.25 - 0.75
RDKRSALQSI	NEWASQTTDGKLPEVTKDVER	N-ter +34.06 Da, K +34.06 Da	39.8	59.4	4	2504.51	-2.18	0.50	SERPH_MOUSE		Serpin H1;	47 kDa heat shock protein;Collagen-binding protein;Serine protease inhibitor J6;	0.00 - 0.15
KRDDLIGGDG	NFKFDVDDFAESWR	N-ter +28.03 Da, K +28.03 Da	25.9	58.3	3	1830.96	2.46	0.50	BMPER_MOUSE		BMP-binding endothelial regulator protein;	Bone morphogenetic protein-binding endothelial cell precursor-derived regulator;Protein crossveinless-2;	0.85 - 1.00
DPHPMLPNYK	NFKGTIQELGQNQYAVSGEIFVVDR	N-ter +28.03 Da, K +28.03 Da	22.7	41.1	4	2867.60	4.37	1.03	TOP2B_MOUSE	F6U5K2_MOUSE	DNA topoisomerase 2-beta;	DNA topoisomerase II, beta isozyme;	0.85 - 1.00
IPNFWVTTFV	NHPQVSALLGEEDEEALHYLTR	N-ter +28.03 Da	41.5	57.3	4	2548.40	3.96	0.83	SET_MOUSE	A2BE93_MOUSE	Protein SET;	Phosphatase 2A inhibitor I2PP2A;Template-activating factor I;	0.85 - 1.00
TVRLPFCGHK	NICSLTTIQKIPR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	29.9	98.5	3	1599.08	0.49	0.05	WIPI2_MOUSE	D3YWK1_MOUSE	WD repeat domain phosphoinositide-interacting protein 2;		0.25 - 0.75
ILLWLYGADG	NIVMTQSPKSMSMSVGER	N-ter +34.06 Da, K +34.06 Da	35.8	43.7	3	2049.16	-1.32	0.20	KV5A2_MOUSE		Ig kappa chain V-V region MOPC 21;		0.15 - 0.25
FLPMMQAISN	NKDQGGYEDFVEGLR	N-ter +34.06 Da, K +34.06 Da	45.4	47.5	3	1794.01	-1.12	0.34	E9PWG4_MOUSE	MYL1_MOUSE			0.15 - 0.25
KAAQAAVASY	NMGSDSLYYFR	N-ter +28.03 Da	39.0	39.9	2	1379.67	2.23	0.50	Q9D1B1_MOUSE				0.85 - 1.00
GALGCAICHG	NPVDDICIAKPR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	22.2	39.6	3	1464.90	-0.36	0.03	ANT3_MOUSE		Antithrombin-III;	Serpin C1;	0.25 - 0.75
PSLAFLYMEK	NQLEEVPSALPR	N-ter +28.03 Da	33.2	35.2	2	1379.79	0.30	0.02	PRELP_MOUSE		Prolargin;	Proline-arginine-rich end leucine-rich repeat protein;	0.25 - 0.75
SGDSLTVASS	NTDFAFSLYR	N-ter +28.03 Da	33.8	51.2	2	1260.68	-1.09	0.19	SPA3G_MOUSE	D3Z450_MOUSE	Serine protease inhibitor A3G;	Serine protease inhibitor 2A;	0.15 - 0.25
DIDSAPITAR	NTGIICTIGPASR	N-ter +28.03 Da, C +57.02 Da	31.1	56.6	3	1386.81	0.08	0.01	KPYM_MOUSE		Pyruvate kinase isozymes M1/M2;	Pyruvate kinase muscle isozyme;	0.25 - 0.75
SNSSMTTKDG	NYLEASSGTDAKNSSR	N-ter +34.06 Da, K +34.06 Da	28.4	66.7	3	1767.02	-2.18	0.20	TACT_MOUSE		T-cell surface protein tactile;	Cell surface antigen CD96;T cell-activated increased late expression protein;	0.00 - 0.15
IGKIGGAQNR	NYSKLLCGLLSDR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	38.7	60.2	3	1593.95	1.92	0.30	MIF_MOUSE		Macrophage migration inhibitory factor;	Delayed early response protein 6;Glycosylation-inhibiting factor;L-dopachrome isomerase;L-dopachrome tautomerase;Phenylpyruvate tautomerase;	0.85 - 1.00
DKIREYKSKR	QASGGPVDIGPEYQQDLDR	N-ter +28.03 Da	46.2	46.6	3	2072.08	-1.74	0.17	ATP5J_MOUSE	E9QAD6_MOUSE	ATP synthase-coupling factor 6, mitochondrial;		0.00 - 0.15
GRKTETVCTF	QDGALVQHQQWDGKESTITR	N-ter +28.03 Da, K +28.03 Da	34.1	55.0	4	2352.31	1.54	0.32	FABP5_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;	0.75 - 0.85
ESQVLDEQTY	QEDEPTIASPVGWPR	N-ter +28.03 Da	38.3	30.1	3	1708.89	0.45	0.03	ETV6_MOUSE	Q80WR3_MOUSE			0.25 - 0.75
VFSMFDQTQI	QEFKEAFTVIDQNR	N-ter +34.06 Da, K +34.06 Da	47.9	42.0	3	1792.05	-2.94	0.68	MLRS_MOUSE	F6ULR7_MOUSE	Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.00 - 0.15
HGYYAAGQTW	QEGDKVIRPGVSQAGEEMEQFGQGVR	N-ter +28.03 Da, K +28.03 Da	39.7	63.0	4	2886.61	0.90	0.29	E9QPB2_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
LLTSRSNAQR	QEIAQEFKTLFGR	N-ter +28.03 Da, K +28.03 Da	44.5	51.0	3	1621.97	2.05	0.17	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;	0.85 - 1.00
STFQQMWISK	QEYDEAGPSIVHR	N-ter +28.03 Da	45.4	47.9	3	1527.81	-0.89	0.10	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.15 - 0.25
RQYFYRYITD	QEYIYSIHTR	N-ter +28.03 Da	31.5	56.1	3	1336.75	-1.15	0.05	MA2B2_MOUSE	F6TMZ3_MOUSE	Epididymis-specific alpha-mannosidase;	Mannosidase alpha class 2B member 2;	0.15 - 0.25
FHVNLLCGEE	QGADAALHFNPR	N-ter +28.03 Da	28.6	73.4	3	1323.77	0.21	0.02	Q9CRB1_MOUSE	LEG7_MOUSE			0.25 - 0.75
KDLVASVPDM	QGDGEDNHVDGDKGPR	N-ter +34.06 Da, K +34.06 Da	9.2	90.0	3	1763.01	-2.94	0.91	NC2A_MOUSE	D3YYC2_MOUSE	Dr1-associated corepressor;	Dr1-associated protein 1;Negative co-factor 2-alpha;	0.00 - 0.15
RRQHLKSVML	QIAATELEKEESR	N-ter +28.03 Da, K +28.03 Da	27.9	51.0	3	1558.90	-0.67	0.05	TNNI2_MOUSE	A2A6K0_MOUSE	Troponin I, fast skeletal muscle;	Troponin I, fast-twitch isoform;	0.25 - 0.75
RNLHASNTRL	QKTGTAEMSSILEER	N-ter +28.03 Da, K +28.03 Da	52.1	52.2	3	1734.97	-0.81	0.14	ATPA_MOUSE	D6RJ16_MOUSE	ATP synthase subunit alpha, mitochondrial;		0.15 - 0.25
KWKEDVELYR	QKVAPLGAELQESAR	N-ter +28.03 Da, K +28.03 Da	48.7	44.0	3	1652.00	-0.20	0.02	APOA1_MOUSE	Q8BPD5_MOUSE	Apolipoprotein A-I;	Apolipoprotein A1;	0.25 - 0.75
DEEKMELQEM	QLKEAKHIAEDSDR	N-ter +28.03 Da, K +28.03 Da	22.6	62.8	4	1723.04	0.40	0.09	TPM2_MOUSE	A2AIM4_MOUSE	Tropomyosin beta chain;	Beta-tropomyosin;Tropomyosin-2;	0.25 - 0.75
NTEENRRFYR	QLLLTADDR	N-ter +28.03 Da	37.2	34.5	2	1071.63	1.84	0.14	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.85 - 1.00
LYKPVTDLFL	QLVDSGKVDEAR	N-ter +28.03 Da, K +28.03 Da	26.7	47.1	3	1371.80	-0.60	0.08	LPPRC_MOUSE		Leucine-rich PPR motif-containing protein, mitochondrial;	130 kDa leucine-rich protein;	0.25 - 0.75
MTTASPSQVR	QNYHQDAEAAINR	N-ter +28.03 Da	38.0	48.7	3	1556.81	-2.84	0.41	FRIH_MOUSE		Ferritin heavy chain;		0.00 - 0.15
FRRRTDKDTE	QPGEVSALGQGPAR	N-ter +34.06 Da	24.0	66.4	3	1399.86	-2.40	0.50	KCNH2_MOUSE	Q53Z09_MOUSE	Potassium voltage-gated channel subfamily H member 2;	Ether-a-go-go-related gene potassium channel 1;Voltage-gated potassium channel subunit Kv11.1;	0.00 - 0.15
QSLPSSHGPS	QPGLPAVLSSPSPPLSPR	N-ter +28.03 Da	26.4	48.8	4	1827.12	4.13	0.93	CB071_MOUSE		Uncharacterized protein C2orf71 homolog;		0.85 - 1.00
LQPQNLQPPS	QPHLSVSSAANGHLGR	N-ter +34.06 Da	23.4	61.8	3	1664.00	-3.84	1.64	NOTC1_MOUSE	Q7TQ50_MOUSE	Neurogenic locus notch homolog protein 1;	Motch A;mT14;p300;	0.00 - 0.15
LLALQPALGS	QPPSASSSHSMGSSR	N-ter +28.03 Da	25.0	67.1	3	1529.79	1.62	0.17	VS10L_MOUSE		V-set and immunoglobulin domain-containing protein 10-like;		0.75 - 0.85
LLHPTLILAQ	QSNVDELGCSHLGQSYESR	N-ter +34.06 Da, C +57.02 Da	59.8	42.6	3	2199.10	-1.74	0.52	CO3A1_MOUSE	Q5DTG2_MOUSE	Collagen alpha-1(III) chain;		0.00 - 0.15
LGRFAVRDMR	QTVAVGVIKAVDKK	N-ter +28.03 Da, K +28.03 Da	31.2	56.1	4	1567.10	1.11	0.17	EF1A1_MOUSE		Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.75 - 0.85
EKVIVPNMEF	RAADEEAFEDNSEEYIR	N-ter +28.03 Da	52.2	53.4	3	2071.02	4.27	1.04	XPO2_MOUSE	E9QAX7_MOUSE	Exportin-2;	Chromosome segregation 1-like protein;Importin-alpha re-exporter;	0.85 - 1.00
RRGQSSSANR	RAGSSSGSGVQGASAGGLAADASRR	N-ter +34.06 Da	39.3	56.2	4	2266.29	-2.12	0.65	F7BVV1_MOUSE	FILA_MOUSE			0.00 - 0.15
RRGQSSSANR	RAGSSSGSGVQGASAGGLAADASR	N-ter +28.03 Da	79.1	48.8	3	2104.13	-1.03	0.40	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.15 - 0.25
QYHVASVLCQ	RAKVAMSHFEPSEYIR	N-ter +28.03 Da, K +28.03 Da	30.0	63.2	4	1976.15	-0.43	0.05	ACON_MOUSE		Aconitate hydratase, mitochondrial;	Citrate hydro-lyase;	0.25 - 0.75
MRAAPR	RAPAAQPPAAAAPSAVGSPAAAPR	N-ter +34.06 Da	61.9	41.3	4	2186.30	1.96	0.44	CHCH2_MOUSE	B2RPU8_MOUSE	Coiled-coil-helix-coiled-coil-helix domain-containing protein 2, mitochondrial;		0.85 - 1.00
PFYLRPPSFL	RAPSWIDTGLSEMR	N-ter +28.03 Da	40.4	47.5	3	1645.90	-1.40	0.18	CRYAB_MOUSE		Alpha-crystallin B chain;	Alpha(B)-crystallin;P23;	0.15 - 0.25
PVPVQPSWLR	RASAPLPGFSAPGR	N-ter +28.03 Da	40.0	54.3	3	1410.85	-0.89	0.15	HSPB6_MOUSE		Heat shock protein beta-6;		0.15 - 0.25
VSSSLPDICY	RCGESGHLAKDCDLQEDACYNCGR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	44.8	60.2	4	2926.40	-0.01	0.01	D3YYF6_MOUSE				0.25 - 0.75
RRAHSALAQL	RCILDSELEGIR	N-ter +28.03 Da, C +57.02 Da	33.4	42.2	3	1487.84	0.60	0.06	KBL_MOUSE	E9PWY6_MOUSE	2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial;	Aminoacetone synthase;Glycine acetyltransferase;	0.25 - 0.75
AAGFNKLGLM	RDDTLHETEDVKEAIR	N-ter +34.06 Da, K +34.06 Da	21.0	54.6	4	1994.18	0.11	0.02	QCR7_MOUSE	Q9CQB4_MOUSE	Cytochrome b-c1 complex subunit 7;	Complex III subunit 7;Complex III subunit VII;Ubiquinol-cytochrome c reductase complex 14 kDa protein;	0.25 - 0.75
KEMKESIKKF	RDEAKKLEESDALQEAR	N-ter +28.03 Da, K +28.03 Da	31.6	74.2	4	2071.24	0.08	0.03	TIM44_MOUSE	F7C189_MOUSE	Mitochondrial import inner membrane translocase subunit TIM44;		0.25 - 0.75
AKAVLSAEKL	RDEEVHTGLGELLR	N-ter +34.06 Da	29.9	55.6	3	1656.99	1.34	0.17	SERPH_MOUSE		Serpin H1;	47 kDa heat shock protein;Collagen-binding protein;Serine protease inhibitor J6;	0.75 - 0.85
LSLMEPESEF	RDIDNPSAEAER	N-ter +28.03 Da	28.2	73.0	3	1399.77	0.63	0.11	PLIN1_MOUSE		Perilipin-1;	Lipid droplet-associated protein;Perilipin A;	0.25 - 0.75
APSDNRVTSF	RDLIHDQDEEEEEEEGQR	N-ter +28.03 Da	53.6	66.5	4	2283.14	-0.36	0.13	NSF1C_MOUSE	A2AT02_MOUSE	NSFL1 cofactor p47;	p97 cofactor p47;	0.25 - 0.75
DIKSKTYQVM	RDYEQAGSAAPSVFSR	N-ter +28.03 Da	72.4	58.2	3	1767.96	-1.64	0.31	MSTN1_MOUSE		Musculoskeletal embryonic nuclear protein 1;		0.00 - 0.15
LVKDRNVATP	RDYYFALAHTVRDHLVGR	N-ter +28.03 Da	36.7	27.4	4	2216.22	5.97	1.65	PYGL_MOUSE	PYGM_MOUSE	Glycogen phosphorylase, liver form;		0.85 - 1.00
SIIRNVKGPV	REGDVLTLLESER	N-ter +28.03 Da	35.6	56.8	3	1543.91	-0.67	0.09	RS28_MOUSE		40S ribosomal protein S28;		0.25 - 0.75
MSYFPRGLKY	REGGVESAFHKTTSGATPAAIR	N-ter +28.03 Da, K +28.03 Da	33.1	65.9	4	2298.36	0.03	0.01	Q99LB4_MOUSE	D3YZN3_MOUSE			0.25 - 0.75
QAQPNANEDY	REGPCAVNLVLR	N-ter +28.03 Da, C +57.02 Da	35.2	52.6	3	1410.85	-0.06	0.01	STK39_MOUSE		STE20/SPS1-related proline-alanine-rich protein kinase;	Serine/threonine-protein kinase 39;	0.25 - 0.75
IRKLPFQRLV	REIAQDFKTDLR	N-ter +34.06 Da, K +34.06 Da	33.5	63.3	4	1559.01	-0.81	0.11	H31_MOUSE	H32_MOUSE	Histone H3.1;		0.15 - 0.25
KQIQKLEXRV	RELEGEVENEQKR	N-ter +34.06 Da, K +34.06 Da	33.3	64.6	4	1683.03	-3.06	1.02	MYH1_MOUSE	MYH8_MOUSE	Myosin-1;	Myosin heavy chain 1;Myosin heavy chain 2x;Myosin heavy chain, skeletal muscle, adult 1;	0.00 - 0.15
TFYSNKEIFL	RELISNASDALDKIR	N-ter +28.03 Da, K +28.03 Da	42.3	67.3	4	1756.10	-0.09	0.01	HS90B_MOUSE	ENPL_MOUSE	Heat shock protein HSP 90-beta;	Heat shock 84 kDa;Tumor-specific transplantation 84 kDa antigen;	0.25 - 0.75
TFYSNKEIFL	RELISNSSDALDKIR	N-ter +28.03 Da, K +28.03 Da	26.2	56.9	4	1772.08	0.79	0.07	HS90A_MOUSE	B7ZC49_MOUSE	Heat shock protein HSP 90-alpha;	Heat shock 86 kDa;Tumor-specific transplantation 86 kDa antigen;	0.25 - 0.75
ITNHDEYSLV	RELMEEKKDEGTGTLR	N-ter +28.03 Da, K +28.03 Da	22.7	65.4	4	1975.17	-0.62	0.26	TLN1_MOUSE	A2AIM2_MOUSE	Talin-1;		0.25 - 0.75
GFSAGSAIHW	REPEGKEVWDYVTVR	N-ter +28.03 Da, K +28.03 Da	31.0	62.4	4	1918.11	0.74	0.11	RISC_MOUSE	Q3U5P4_MOUSE	Retinoid-inducible serine carboxypeptidase;	Serine carboxypeptidase 1;	0.25 - 0.75
SPFRKDKSPV	REPIDNLTPEER	N-ter +28.03 Da	24.1	52.7	3	1495.84	-0.18	0.02	RBM39_MOUSE	Q3U313_MOUSE	RNA-binding protein 39;	Coactivator of activating protein 1 and estrogen receptors;RNA-binding motif protein 39;RNA-binding region-containing protein 2;Transcription coactivator CAPER;	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
DEKCSTELFV	REPPIMVTKQLEDMNAYCGER	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	49.8	62.5	4	2604.48	-6.64	0.00	D3YU50_MOUSE	Q6P6L5_MOUSE			0.00 - 0.15
EQRVEDVRLI	REQHPTKIPVIIER	N-ter +34.06 Da, K +34.06 Da	26.4	62.6	4	1783.22	-1.36	0.28	MLP3B_MOUSE		Microtubule-associated proteins 1A/1B light chain 3B;	Autophagy-related protein LC3 B;Autophagy-related ubiquitin-like modifier LC3 B;MAP1 light chain 3-like protein 2;MAP1A/MAP1B light chain 3 B;Microtubule-associated protein 1 light chain 3 beta;	0.15 - 0.25
PLPTFSSLNL	RETNLESLPLVDTHSKR	N-ter +28.03 Da, K +28.03 Da	32.0	61.7	4	2050.24	2.62	0.29	VIME_MOUSE	E9PZV5_MOUSE	Vimentin;		0.85 - 1.00
AKVQAINVSS	RFEEEIKAEQEER	N-ter +28.03 Da, K +28.03 Da	34.8	62.2	4	1747.98	0.33	0.06	Q8C845_MOUSE	EFHD2_MOUSE			0.25 - 0.75
GKAFLRQLPF	RGDDGIFDDNFIEER	N-ter +28.03 Da	49.5	58.7	3	1824.93	-0.01	0.00	SNX3_MOUSE	Q78ZM0_MOUSE	Sorting nexin-3;	SDP3 protein;	0.25 - 0.75
GKALKRQLPF	RGDEGIFEESFIEER	N-ter +34.06 Da	55.0	62.2	3	1846.01	-0.06	0.01	SNX12_MOUSE	Q6ZWQ5_MOUSE	Sorting nexin-12;	SDP8 protein;	0.25 - 0.75
APGPAGASGD	RGEAGAAGPSGPAGPR	N-ter +28.03 Da	34.2	19.9	3	1434.76	1.43	0.32	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.75 - 0.85
PVGPAGKNGD	RGETGPAGPAGPIGPAGAR	N-ter +34.06 Da	75.6	48.5	3	1722.02	-2.64	0.50	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
KETRANRAKR	RGGGGHDALKGPNVCGSR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	37.2	68.8	4	1850.06	2.60	0.74	FBN1_MOUSE	A2AQ53_MOUSE	Fibrillin-1;		0.85 - 1.00
M	RGQVGDLSPQQQEALAR	N-ter +28.03 Da	53.5	53.8	3	2011.14	1.69	0.39	S14L4_MOUSE		SEC14-like protein 4;		0.85 - 1.00
EILTRLRLQK	RGTGGVDTAAVGAVFDISNADR	N-ter +34.06 Da	82.8	52.6	3	2182.23	-5.64	2.82	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
IGSSADRQGR	RGVSESQASDSEGHSDFSEGQAVGAHR	N-ter +28.03 Da	79.2	58.3	4	2814.42	3.43	1.31	F7BVV1_MOUSE	E9Q019_MOUSE			0.85 - 1.00
CGCDFSLTVR	RHHCHACGKIVCR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	17.8	42.7	4	1757.99	-3.47	0.77	FGD5_MOUSE	E9QLU9_MOUSE	FYVE, RhoGEF and PH domain-containing protein 5;		0.00 - 0.15
LGTFLYEYSR	RHPDYSVSLLLR	N-ter +28.03 Da	26.6	36.6	3	1482.89	-0.40	0.04	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
AGTIAGLNVL	RIINEPTAAAIAYGLDKKVGAER	N-ter +28.03 Da, K +28.03 Da	62.1	62.4	4	2539.61	1.64	0.13	HSP7C_MOUSE	Q504P4_MOUSE	Heat shock cognate 71 kDa protein;	Heat shock 70 kDa protein 8;	0.75 - 0.85
TFKNYIKRNW	RIVEDEPNKICEADR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	28.6	70.1	4	1899.09	1.58	0.26	XPO2_MOUSE	E9QAX7_MOUSE	Exportin-2;	Chromosome segregation 1-like protein;Importin-alpha re-exporter;	0.75 - 0.85
GGISETRIEK	RIVITGDAALDHDQALAQAIR	N-ter +28.03 Da	47.8	64.1	4	2274.39	-0.36	0.03	E41L2_MOUSE	Q811B2_MOUSE	Band 4.1-like protein 2;	Generally expressed protein 4.1;	0.25 - 0.75
DARGHRPVDR	RKEEPPSLRPAPPPISGGGYR	N-ter +28.03 Da, K +28.03 Da	20.2	49.5	4	2316.39	-0.22	0.04	FIBB_MOUSE		Fibrinogen beta chain;		0.25 - 0.75
MPLGLGR	RKKAPPLVENEEAEPSR	N-ter +28.03 Da, K +28.03 Da	34.0	57.8	4	2033.24	2.47	0.69	GIPC1_MOUSE		PDZ domain-containing protein GIPC1;	GAIP C-terminus-interacting protein;RGS-GAIP-interacting protein;RGS19-interacting protein 1;SemaF cytoplasmic domain-associated protein 1;Synectin;	0.85 - 1.00
LLALAGLLQA	RLLLPQQAGFGECDR	N-ter +28.03 Da, C +57.02 Da	48.7	46.9	3	1787.00	-2.64	0.66	ENDD1_MOUSE	Q69ZY2_MOUSE	Endonuclease domain-containing 1 protein;		0.00 - 0.15
RAAPRQSSSF	RLLQEALEAEER	N-ter +28.03 Da	39.2	51.5	3	1483.88	0.45	0.04	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	52.0	54.2	3	1959.17	-1.79	0.55	E9Q616_MOUSE				0.00 - 0.15
APAAGMRRRR	RLQQEDGISFEYHR	N-ter +28.03 Da	48.4	52.2	3	1804.98	2.12	0.33	CBPE_MOUSE		Carboxypeptidase E;	Carboxypeptidase H;Enkephalin convertase;Prohormone-processing carboxypeptidase;	0.85 - 1.00
ADESTGSIAK	RLQSIGTENTEENRR	N-ter +34.06 Da	19.0	59.7	4	1836.08	-1.47	0.45	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.15 - 0.25
ADESTGSIAK	RLQSIGTENTEENR	N-ter +28.03 Da	37.3	47.1	3	1673.91	0.39	0.06	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
KTYGICRAIR	RMGESDDSILR	N-ter +34.06 Da	31.4	68.1	3	1311.76	-0.92	0.09	RS21_MOUSE		40S ribosomal protein S21;		0.15 - 0.25
IIPRHLQLAI	RNDEELNKLLGR	N-ter +28.03 Da, K +28.03 Da	27.7	66.4	4	1511.94	0.06	0.01	H2A1F_MOUSE	H2A1H_MOUSE	Histone H2A type 1-F;		0.25 - 0.75
GMDVAASEFY	RNGKYDLDFKSPDDPAR	N-ter +34.06 Da, K +34.06 Da	25.1	65.7	4	2095.29	-2.18	0.40	ENOB_MOUSE		Beta-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 3;Muscle-specific enolase;Skeletal muscle enolase;	0.00 - 0.15
MFLPILQHIS	RNKEQGTYEDFVEGLR	N-ter +28.03 Da, K +28.03 Da	23.9	54.6	3	1996.11	1.25	0.16	MYL4_MOUSE	Q9CZ19_MOUSE	Myosin light chain 4;	MLC1EMB;Myosin light chain 1, atrial/fetal isoform;	0.75 - 0.85
SVVRPFAKLV	RPPVQVYGIEGR	N-ter +34.06 Da	30.6	34.5	3	1403.86	-2.40	0.13	ATPO_MOUSE	D3Z4J0_MOUSE	ATP synthase subunit O, mitochondrial;	Oligomycin sensitivity conferral protein;	0.00 - 0.15
VDKIREYKSK	RQASGGPVDIGPEYQQDLDR	N-ter +28.03 Da	73.8	50.6	3	2228.19	3.98	0.97	ATP5J_MOUSE	E9QAD6_MOUSE	ATP synthase-coupling factor 6, mitochondrial;		0.85 - 1.00
QDIAKLMPLL	RQEELESVEAGVQGGAFEGTR	N-ter +28.03 Da	66.8	53.1	3	2276.22	4.63	1.63	EHD2_MOUSE	Q8R2X0_MOUSE	EH domain-containing protein 2;		0.85 - 1.00
LQAQRAFTTR	RQISEDVDGPDNR	N-ter +34.06 Da	48.7	38.4	3	1533.82	-0.84	0.09	NEDD4_MOUSE		E3 ubiquitin-protein ligase NEDD4;	Neural precursor cell expressed developmentally down-regulated protein 4;	0.15 - 0.25
GRSSNRRDRP	RQPSPSQSSDSQVHSGVQVEGR	N-ter +28.03 Da	44.5	63.1	4	2379.30	0.87	0.25	E9Q019_MOUSE	F7BVV1_MOUSE			0.25 - 0.75
PNIDIRSAFK	RSGEGQEDAGELDFSGLLKR	N-ter +34.06 Da, K +34.06 Da	53.6	65.2	4	2231.33	-2.32	0.23	D3YU50_MOUSE	Q6P6L5_MOUSE			0.00 - 0.15
AAGGGGGENY	RSPVHPESSEDEEHSVIPQR	N-ter +28.03 Da	50.2	68.0	4	2342.28	-0.62	0.12	E9QPZ3_MOUSE				0.25 - 0.75
SQSGSGRSPR	RSPVHPESSEGEEHSVVPQR	N-ter +34.06 Da	46.3	62.3	4	2276.28	-1.56	0.41	FILA2_MOUSE	E9QPZ3_MOUSE	Filaggrin-2;	Intermediate filament-associated protein;	0.00 - 0.15
SQDCSPATSR	RSSVSGISLEDNR	N-ter +28.03 Da	34.4	53.4	3	1446.82	0.32	0.03	PDLI4_MOUSE	A8Y5C3_MOUSE	PDZ and LIM domain protein 4;	LIM protein RIL;Reversion-induced LIM protein;	0.25 - 0.75
TRELPSFLGE	RTDEAAFQKVMSNLDSNR	N-ter +28.03 Da, K +28.03 Da	44.8	61.9	4	2137.19	0.57	0.07	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;	0.25 - 0.75
YMASQASAEK	RTQKEIGDIAGVADVTIR	N-ter +28.03 Da, K +28.03 Da	25.7	61.0	4	1997.25	-0.36	0.02	TF2B_MOUSE		Transcription initiation factor IIB;	General transcription factor TFIIB;RNA polymerase II alpha initiation factor;	0.25 - 0.75
IWHHSFYNEL	RVAPEEHPTLLTEAPLNPKANR	N-ter +28.03 Da, K +28.03 Da	64.5	52.2	4	2508.51	3.30	0.19	ACTA_MOUSE	ACTC_MOUSE	Actin, aortic smooth muscle;	Alpha-actin-2;	0.85 - 1.00
IWHHTFYNEL	RVAPEEHPVLLTEAPLNPKANR	N-ter +28.03 Da, K +28.03 Da	58.1	61.3	4	2506.56	4.28	0.40	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.85 - 1.00
MATL	RVHPEAQAKVDVFR	N-ter +28.03 Da, K +28.03 Da	21.4	69.0	4	1707.08	-0.84	0.14	PSME1_MOUSE		Proteasome activator complex subunit 1;	11S regulator complex subunit alpha;Activator of multicatalytic protease subunit 1;Proteasome activator 28 subunit alpha;	0.15 - 0.25
NVVGARRSSW	RVISSIEQKTER	N-ter +28.03 Da, K +28.03 Da	30.2	60.1	4	1500.95	1.87	0.35	1433B_MOUSE	A2A5N1_MOUSE	14-3-3 protein beta/alpha;	Protein kinase C inhibitor protein 1;	0.85 - 1.00
LNGKLTGMAF	RVPTPNVSVVDLTCR	N-ter +28.03 Da, C +57.02 Da	48.4	43.8	3	1740.01	0.48	0.04	G3P_MOUSE	G3PT_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	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
ESLGSLPSEV	RVTHVGHCGEDGVTATR	N-ter +34.06 Da, C +57.02 Da	18.5	72.6	4	1885.08	-1.43	0.12	ZKSC3_MOUSE	Q5RJ53_MOUSE	Zinc finger protein with KRAB and SCAN domains 3;	SCAN-KRAB-zinc finger protein;Zinc finger protein 306;Zinc finger protein 307;Zinc finger protein 47 homolog;	0.15 - 0.25
VVFHYRAARD	RYALTFAEAQEACR	N-ter +34.06 Da, C +57.02 Da	12.8	65.6	4	1718.98	-1.89	0.42	NCAN_MOUSE		Neurocan core protein;	Chondroitin sulfate proteoglycan 3;	0.00 - 0.15
GPYDRPGTAR	RYIGIVKQAGLDR	N-ter +28.03 Da, K +28.03 Da	29.3	54.8	4	1544.00	0.47	0.05	HNRPF_MOUSE		Heterogeneous nuclear ribonucleoprotein F;		0.25 - 0.75
FYLKMKGDYY	RYLAEVATGDDKKR	N-ter +28.03 Da, K +28.03 Da	37.0	64.8	4	1705.06	0.89	0.14	1433S_MOUSE		14-3-3 protein sigma;	Stratifin;	0.25 - 0.75
GGGVGGPGAK	SAAQAAAQTNSNAAGKQLR	N-ter +34.06 Da, K +34.06 Da	43.5	46.4	3	1925.16	-4.06	1.35	PAIRB_MOUSE		Plasminogen activator inhibitor 1 RNA-binding protein;	PAI1 RNA-binding protein 1;SERPINE1 mRNA-binding protein 1;	0.00 - 0.15
QDEGAEPMGY	SAELSSEGILDDRNEEKR	N-ter +34.06 Da, K +34.06 Da	51.9	61.5	4	2115.24	0.64	0.12	EZRI_MOUSE		Ezrin;	Cytovillin;Villin-2;p81;	0.25 - 0.75
QDEGAEPMGY	SAELSSEGILDDR	N-ter +28.03 Da	42.5	46.3	3	1418.75	0.03	0.00	EZRI_MOUSE		Ezrin;	Cytovillin;Villin-2;p81;	0.25 - 0.75
QQHGIPVFIF	SAGIGDVLEEVIR	N-ter +28.03 Da	28.2	52.4	3	1384.83	0.42	0.10	5NT3_MOUSE		Cytosolic 5'-nucleotidase 3;	Cytosolic 5'-nucleotidase III;Lupin;Pyrimidine 5'-nucleotidase 1;	0.25 - 0.75
LFQPSFIGME	SAGIHETTYNSIMKCDIDIR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	38.0	62.4	4	2379.31	1.04	0.17	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.75 - 0.85
MATRSCVSRG	SAGSAAAGPVEAAIR	N-ter +28.03 Da	42.2	42.3	3	1354.78	-0.12	0.01	BOLA1_MOUSE		BolA-like protein 1;		0.25 - 0.75
SQMSYGYDEK	SAGVSVPGPMGPSGPR	N-ter +28.03 Da	49.5	39.4	3	1479.81	-2.74	0.37	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
VLELKYTGNA	SALLILPDQGR	N-ter +34.06 Da	42.2	34.1	2	1215.78	-1.64	0.57	SPA3K_MOUSE		Serine protease inhibitor A3K;	Contrapsin;SPI-2;	0.00 - 0.15
VLHIGSAHNR	SAMPFTASPAPSTR	N-ter +28.03 Da	28.5	44.2	3	1447.78	0.84	0.08	PDLI1_MOUSE		PDZ and LIM domain protein 1;	C-terminal LIM domain protein 1;Elfin;LIM domain protein CLP-36;	0.25 - 0.75
QEPKRRSARL	SAMPVPFTPELKPKR	N-ter +28.03 Da, K +28.03 Da	30.7	60.1	4	1781.13	0.82	0.07	HMGN5_MOUSE		High mobility group nucleosome-binding domain-containing protein 5;	Nucleosome-binding protein 1;Nucleosome-binding protein 45;Protein GARP45;	0.25 - 0.75
VTLINFWPVD	SAPASSPQLSHDDTHSR	N-ter +28.03 Da	51.2	63.4	4	1819.96	0.00	0.00	DMD_MOUSE	A2A9Z2_MOUSE	Dystrophin;		0.25 - 0.75
AVNSSSYKKR	SAPCEDPFTPAKILR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	30.8	45.9	3	1757.00	-0.89	0.17	E9Q3G8_MOUSE				0.15 - 0.25
VPRASMCSIR	SAPPKLASLKGVVPEDAVETLAGSLGTR	N-ter +28.03 Da, K +28.03 Da	44.3	54.5	4	2846.77	0.86	0.48	ICAL_MOUSE	Q921U7_MOUSE	Calpastatin;	Calpain inhibitor;	0.25 - 0.75
KSMWEKGSVF	SAPSASGTPNKETAGLKVGVSSR	N-ter +28.03 Da, K +28.03 Da	36.9	54.5	4	2284.36	0.08	0.02	Q8VCQ8_MOUSE	E9Q0M9_MOUSE			0.25 - 0.75
FEGQVGQAAY	SASKGGIVGMTLPIAR	N-ter +34.06 Da, K +34.06 Da	35.4	40.7	3	1625.06	-0.30	0.02	Q99N15_MOUSE	A2AFQ2_MOUSE			0.25 - 0.75
SCLVLAARHA	SASSTNLKDVLSNLIPKEQAR	N-ter +34.06 Da, K +34.06 Da	22.1	58.4	4	2372.55	0.14	0.05	CISY_MOUSE		Citrate synthase, mitochondrial;		0.25 - 0.75
RYEDMAAFMK	SAVEKGEELSCEER	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	28.3	54.1	3	1677.88	0.26	0.05	1433S_MOUSE		14-3-3 protein sigma;	Stratifin;	0.25 - 0.75
GEADRDTYRR	SAVPPGADKKAEAGAGSATEFQFR	N-ter +28.03 Da, K +28.03 Da	50.9	56.5	4	2475.42	1.16	0.11	RS10_MOUSE		40S ribosomal protein S10;		0.75 - 0.85
GTRKPVKDFA	SCHLAQAPNHVVVSR	N-ter +34.06 Da, C +57.02 Da	45.4	58.5	4	1708.00	-0.52	0.10	TRFE_MOUSE	E9Q035_MOUSE	Serotransferrin;	Beta-1 metal-binding globulin;Siderophilin;	0.25 - 0.75
TQCCAEADKE	SCLTPKLDGVKEKALVSSVR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	25.8	61.3	4	2298.48	-0.29	0.03	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
TESTVKTTVF	SCNLGEKFDETTADGR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	40.1	47.4	3	1854.93	1.56	0.24	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;	0.75 - 0.85
LWALLTPAEA	SCQGIQCAPGQR	N-ter +28.03 Da, C +57.02 Da	27.1	48.5	3	1388.70	0.77	0.22	E9PVG8_MOUSE				0.25 - 0.75
AIGIDLGTTY	SCVGVFQHGKVEIIANDQGNR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	52.6	54.6	4	2383.34	1.64	0.15	HS71A_MOUSE	HS71B_MOUSE	Heat shock 70 kDa protein 1A;	Heat shock 70 kDa protein 3;Hsp68;	0.75 - 0.85
AARDKEEIFG	SDADSEDDADSDDEDR	N-ter +34.06 Da	16.6	81.7	3	1789.79	-2.74	0.73	PAF1_MOUSE		RNA polymerase II-associated factor 1 homolog;		0.00 - 0.15
GTVTHLCRQY	SDAPPLTLDGIKDR	N-ter +28.03 Da, K +28.03 Da	45.6	40.2	3	1552.91	0.88	0.05	ACPM_MOUSE	F8WJ64_MOUSE	Acyl carrier protein, mitochondrial;	CI-SDAP;NADH-ubiquinone oxidoreductase 9.6 kDa subunit;	0.25 - 0.75
KIIRLCRERP	SDECGAGVFMGSHFDR	N-ter +28.03 Da, C +57.02 Da	54.4	63.9	3	1798.86	0.29	0.07	RS27A_MOUSE		Ubiquitin-40S ribosomal protein S27a;	Ubiquitin carboxyl extension protein 80;	0.25 - 0.75
QIGAKFWEVI	SDEHGIDPTGTYHGDSDLQLDR	N-ter +28.03 Da	54.3	61.2	4	2455.24	2.09	0.74	TBB5_MOUSE		Tubulin beta-5 chain;		0.85 - 1.00
QIGAKFWEVI	SDEHGIDPTGTYHGDSDLQLER	N-ter +28.03 Da	54.2	59.7	4	2469.25	1.22	0.23	TBB2C_MOUSE	TBB4_MOUSE	Tubulin beta-4B chain;	Tubulin beta-2C chain;	0.75 - 0.85
ASRKTFSHEL	SDFGLESTTGEVPVVAIR	N-ter +28.03 Da	47.7	42.0	3	1904.07	0.60	0.14	PDIA3_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
SPTRSVTSPI	SDFPAPPPYSAVSPPPEAFSR	N-ter +34.06 Da	26.9	81.0	3	2249.30	0.33	0.07	SYNP2_MOUSE	D3YVV9_MOUSE	Synaptopodin-2;	Myopodin;	0.25 - 0.75
ESQASDSEGH	SDFSEGQAVGAHR	N-ter +28.03 Da	46.8	58.5	3	1387.73	-0.30	0.03	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.25 - 0.75
TKDLGGNAKC	SDFTEEICR	N-ter +28.03 Da, C +57.02 Da	36.2	41.3	2	1183.57	0.60	0.07	IDH3A_MOUSE		Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial;	Isocitric dehydrogenase subunit alpha;NAD(+)-specific ICDH subunit alpha;	0.25 - 0.75
ALYTAMKGFG	SDKESILELITSR	N-ter +28.03 Da, K +28.03 Da	30.5	48.0	3	1545.94	1.47	0.43	ANXA6_MOUSE	F8WIT2_MOUSE	Annexin A6;	67 kDa calelectrin;Annexin VI;Annexin-6;Calphobindin-II;Chromobindin-20;Lipocortin VI;Protein III;p68;p70;	0.75 - 0.85
SRDEFTNTCP	SDKEVEIAYSDVAKR	N-ter +28.03 Da, K +28.03 Da	32.1	56.7	4	1793.06	0.16	0.01	CLIC4_MOUSE		Chloride intracellular channel protein 4;		0.25 - 0.75
GLTGNFAAQY	SDKGVSSGPGPMGLMGPR	N-ter +28.03 Da, K +28.03 Da	65.3	50.4	3	1784.98	-1.52	0.13	CO1A2_MOUSE	E0CXI2_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.00 - 0.15
AVALHSAVSA	SDLELHPPSYPWSHR	N-ter +34.06 Da	38.4	64.4	4	1854.05	-0.67	0.04	CY1_MOUSE		Cytochrome c1, heme protein, mitochondrial;	Complex III subunit 4;Complex III subunit IV;Cytochrome b-c1 complex subunit 4;Ubiquinol-cytochrome-c reductase complex cytochrome c1 subunit;	0.25 - 0.75
HLSSSRSPSA	SDLPQEELVDQKCLLQKYTHR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	36.4	59.2	4	2701.66	-1.47	0.37	CFAI_MOUSE		Complement factor I;	C3B/C4B inactivator;	0.15 - 0.25
RERKNSITEI	SDNEDELLEYHR	N-ter +28.03 Da	23.8	63.5	3	1546.79	2.26	0.59	PHLB1_MOUSE	D3Z0X5_MOUSE	Pleckstrin homology-like domain family B member 1;	Protein LL5-alpha;	0.85 - 1.00
KKSKENPRNF	SDNQLQEGKNVIGLQMGTNR	N-ter +28.03 Da, K +28.03 Da	46.7	51.2	4	2257.26	0.21	0.04	TAGL2_MOUSE		Transgelin-2;	SM22-beta;	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
TKQTQTFTTY	SDNQPGVLIQVYEGER	N-ter +28.03 Da	59.0	48.1	3	1831.00	0.23	0.02	HS71A_MOUSE	HS71B_MOUSE	Heat shock 70 kDa protein 1A;	Heat shock 70 kDa protein 3;Hsp68;	0.25 - 0.75
NVREATESFA	SDPILYRPVAVALDTKGPEIR	N-ter +28.03 Da, K +28.03 Da	22.6	60.4	4	2365.48	-0.07	0.01	KPYM_MOUSE		Pyruvate kinase isozymes M1/M2;	Pyruvate kinase muscle isozyme;	0.25 - 0.75
SGGGLLVDVF	SDSASAVAPLAPGSEDNFAR	N-ter +34.06 Da	46.4	53.0	3	1995.08	-0.25	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
HRQSKLDSSD	SDSGSGQVQGR	N-ter +28.03 Da	21.3	100.6	2	1104.63	0.07	0.03	SNPC1_MOUSE		snRNA-activating protein complex subunit 1;	Small nuclear RNA-activating complex polypeptide 1;snRNA-activating protein complex 43 kDa subunit;	0.25 - 0.75
LQTRGFVSDS	SDSMDTGAGSIR	N-ter +28.03 Da	40.7	39.7	2	1223.59	-0.32	0.02	ATIF1_MOUSE	Q9D879_MOUSE	ATPase inhibitor, mitochondrial;	Inhibitor of F(1)F(o)-ATPase;	0.25 - 0.75
RPRQPSPSQS	SDSQVHSGVQVEGR	N-ter +34.06 Da	49.4	48.3	3	1517.84	-0.03	0.01	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.25 - 0.75
MKVLQTRGFV	SDSSDSMDTGAGSIR	N-ter +28.03 Da	33.9	49.0	3	1512.71	-1.74	0.17	ATIF1_MOUSE	Q9D879_MOUSE	ATPase inhibitor, mitochondrial;	Inhibitor of F(1)F(o)-ATPase;	0.00 - 0.15
KTPQGPPEIY	SDTQFPSLQSTAKHVESR	N-ter +28.03 Da, K +28.03 Da	36.9	63.7	4	2073.18	-0.38	0.02	CDV3_MOUSE	F8WGL9_MOUSE	Protein CDV3;	Carnitine deficiency-associated protein 3;Tyrosine-phosphorylated protein 36;	0.25 - 0.75
A	SDVLELTDENFESR	N-ter +28.03 Da	46.5	52.8	3	1680.87	2.31	0.75	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;	0.85 - 1.00
RILGGVISAI	SEAAAQYNPEPPPPR	N-ter +28.03 Da	38.9	40.0	3	1650.87	0.01	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
KKGFVLHKSK	SEEAHAEDSVMDHHFR	N-ter +28.03 Da	58.1	64.4	4	1923.94	1.01	0.38	PAIRB_MOUSE		Plasminogen activator inhibitor 1 RNA-binding protein;	PAI1 RNA-binding protein 1;SERPINE1 mRNA-binding protein 1;	0.75 - 0.85
VDYRTRVLKI	SEEEELDTKLTR	N-ter +28.03 Da, K +28.03 Da	27.4	49.5	3	1504.84	-2.06	0.17	PEA15_MOUSE		Astrocytic phosphoprotein PEA-15;	15 kDa phosphoprotein enriched in astrocytes;	0.00 - 0.15
RPANPNWGVF	SEFGDSSSPATR	N-ter +28.03 Da	42.7	37.2	2	1267.61	0.01	0.00	Q99K47_MOUSE	E9PV24_MOUSE			0.25 - 0.75
PTKETGWASF	SEFTSSLSTKESLR	N-ter +34.06 Da, K +34.06 Da	42.9	44.8	3	1638.98	0.25	0.09	PP6R3_MOUSE		Serine/threonine-protein phosphatase 6 regulatory subunit 3;	SAPS domain family member 3;	0.25 - 0.75
PRRSPVHPES	SEGEEHSVVPQR	N-ter +28.03 Da	28.9	67.6	3	1380.76	-0.01	0.00	FILA2_MOUSE	FILA2_MOUSE	Filaggrin-2;	Intermediate filament-associated protein;	0.25 - 0.75
RGVSESQASD	SEGHSDFSEGQAVGAHR	N-ter +28.03 Da	45.3	63.0	4	1797.92	2.75	0.74	E9Q019_MOUSE	FILA_MOUSE			0.85 - 1.00
CEFQDAYVLL	SEKKISSVQSIVPALEIANAHR	N-ter +28.03 Da, K +28.03 Da	57.6	70.7	4	2460.58	1.45	0.17	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
RRDHVLGLAR	SELEEDIIPEEDIISR	N-ter +34.06 Da	44.5	45.0	3	1920.07	-0.89	0.17	CO3_MOUSE		Complement C3;	HSE-MSF;	0.15 - 0.25
KQYAPRCSVC	SEPIMPEPGRDETVR	N-ter +28.03 Da	30.1	47.4	3	1739.93	0.93	0.11	ZYX_MOUSE	Q7TQE2_MOUSE	Zyxin;		0.25 - 0.75
KRHPYKMNLA	SEPQEVLHIGSAHNR	N-ter +28.03 Da	23.4	64.6	4	1700.97	-0.09	0.01	PDLI1_MOUSE		PDZ and LIM domain protein 1;	C-terminal LIM domain protein 1;Elfin;LIM domain protein CLP-36;	0.25 - 0.75
DSPERELILS	SEPSPAVTPVTPTTLIAPR	N-ter +28.03 Da	44.3	40.6	3	1961.16	0.71	0.10	SNX2_MOUSE		Sorting nexin-2;		0.25 - 0.75
SSQPNLSTSY	SEQEYGKAGGSPASYHGSTSPR	N-ter +28.03 Da, K +28.03 Da	30.7	58.3	4	2308.21	-0.29	0.07	EPN2_MOUSE	Q5NCM6_MOUSE	Epsin-2;	EPS-15-interacting protein 2;Intersectin-EH-binding protein 2;	0.25 - 0.75
PRQPTVTSVC	SESAQELAEGQR	N-ter +28.03 Da	38.2	55.0	3	1331.71	-0.07	0.01	PDLI5_MOUSE	E9Q8P5_MOUSE	PDZ and LIM domain protein 5;	Enigma homolog;Enigma-like PDZ and LIM domains protein;	0.25 - 0.75
SPLRSPPLLG	SESPYEDFLSADSKVLGR	N-ter +28.03 Da, K +28.03 Da	40.9	63.3	3	2055.15	0.06	0.01	MAP1B_MOUSE		Microtubule-associated protein 1B;	MAP1(X);MAP1.2;	0.25 - 0.75
SADRQGRRGV	SESQASDSEGHSDFSEGQAVGAHR	N-ter +28.03 Da	55.7	63.9	4	2502.22	0.90	0.29	E9Q019_MOUSE	F7BVV1_MOUSE			0.25 - 0.75
MEKLKSGMRF	SEVATQYSEDKAR	N-ter +34.06 Da, K +34.06 Da	34.4	39.5	3	1550.88	-1.52	0.22	PIN4_MOUSE		Peptidyl-prolyl cis-trans isomerase NIMA-interacting 4;	Parvulin-14;Peptidyl-prolyl cis-trans isomerase Pin4;Rotamase Pin4;	0.00 - 0.15
MTTLFCINVL	SEVCGQDITTKHMLPTVLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	37.9	61.7	4	2240.30	0.11	0.01	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
KVLIRIMVSR	SEVDMLKIR	N-ter +28.03 Da, K +28.03 Da	17.8	51.9	3	1145.71	2.08	0.19	ANXA2_MOUSE	B0V2N5_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;	0.85 - 1.00
WTHEVFSSRS	SEVVLSGDDEDYQR	N-ter +28.03 Da	44.5	47.3	3	1638.82	-0.03	0.01	E9Q616_MOUSE				0.25 - 0.75
ERDRITALKR	SFEVEEIEPPNSTPPR	N-ter +28.03 Da	33.2	60.6	3	1855.01	0.40	0.01	SEPT9_MOUSE	A2A6U3_MOUSE	Septin-9;	SL3-3 integration site 1 protein;	0.25 - 0.75
GISLPQVELA	SFGEAGPEIVAPSAEGTAGSR	N-ter +34.06 Da	39.5	45.6	3	2023.10	-0.38	0.05	PRAX_MOUSE	Q6NVF7_MOUSE	Periaxin;		0.25 - 0.75
DEQALEDHFS	SFGPISEVVVVKDR	N-ter +28.03 Da, K +28.03 Da	32.6	53.3	3	1586.99	-0.30	0.03	RBM3_MOUSE	Q8BG13_MOUSE	Putative RNA-binding protein 3;	RNA-binding motif protein 3;	0.25 - 0.75
ANEVEAVKVH	SFPTLKFFPASADR	N-ter +28.03 Da, K +28.03 Da	30.5	53.8	3	1638.96	-1.29	0.09	PDIA1_MOUSE	E9Q8G8_MOUSE	Protein disulfide-isomerase;	Cellular thyroid hormone-binding protein;Endoplasmic reticulum resident protein 59;Prolyl 4-hydroxylase subunit beta;p55;	0.15 - 0.25
ETPSQRRATR	SGAQASSTPLSPTR	N-ter +28.03 Da	28.3	37.9	3	1386.76	2.00	0.37	LMNA_MOUSE	D3YUF7_MOUSE	Prelamin-A/C;		0.85 - 1.00
GPEANVGPYG	SGDSAPLQEAMAVLQHHDAVSGTAR	N-ter +28.03 Da	52.2	51.6	4	2575.38	-1.47	0.49	MA2B1_MOUSE		Lysosomal alpha-mannosidase;	Lysosomal acid alpha-mannosidase;Mannosidase alpha class 2B member 1;Mannosidase alpha-B;	0.15 - 0.25
SHQRAADSQN	SGEGNTSAAESSFSQEVAR	N-ter +28.03 Da	46.3	39.1	3	1940.95	0.20	0.04	Q7M739_MOUSE	E9PZZ3_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
NIDIRSAFKR	SGEGQEDAGELDFSGLLKR	N-ter +34.06 Da, K +34.06 Da	42.3	50.1	3	2075.18	-0.79	0.15	D3YU50_MOUSE	Q6P6L5_MOUSE			0.25 - 0.75
ESTECRKTRV	SGEHMDLTTCPLAAGGQQEKLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	40.7	58.3	4	2454.34	3.28	0.31	Q9D1B1_MOUSE				0.85 - 1.00
EPFASGKTAE	SGELHGLTTDEKFVEGVYR	N-ter +28.03 Da, K +28.03 Da	52.7	60.7	4	2192.25	-2.32	0.35	TTHY_MOUSE		Transthyretin;	Prealbumin;	0.00 - 0.15
VLDGADCIML	SGETAKGDYPLEAVR	N-ter +34.06 Da, K +34.06 Da	33.0	40.2	3	1659.98	-1.09	0.14	KPYM_MOUSE		Pyruvate kinase isozymes M1/M2;	Pyruvate kinase muscle isozyme;	0.15 - 0.25
EQFRQQLGPN	SGEVESHLSFLEKSLR	N-ter +28.03 Da, K +28.03 Da	28.1	60.4	4	1873.11	0.53	0.06	APOA4_MOUSE		Apolipoprotein A-IV;	Apolipoprotein A4;	0.25 - 0.75
PPLPTAQGPN	SGGSGAPGLAAAIAGAKLR	N-ter +28.03 Da, K +28.03 Da	43.8	47.0	3	1680.05	-0.76	0.12	VASP_MOUSE		Vasodilator-stimulated phosphoprotein;		0.25 - 0.75
RKDLYANTVL	SGGTTMYPGIADR	N-ter +28.03 Da	44.5	39.6	2	1352.69	-0.42	0.08	ACTB_MOUSE	ACTA_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.25 - 0.75
AIMARIAQFL	SGIPETVPLSTVNR	N-ter +28.03 Da	34.1	41.7	3	1496.88	0.45	0.04	THIKA_MOUSE	THIKB_MOUSE	3-ketoacyl-CoA thiolase A, peroxisomal;	Acetyl-CoA acyltransferase A;Beta-ketothiolase A;Peroxisomal 3-oxoacyl-CoA thiolase A;	0.25 - 0.75
HRGLPGLKGY	SGLQGLPGLAGLHGDQGAPGPVGPAGPR	N-ter +34.06 Da	51.1	55.1	4	2566.52	-1.74	0.52	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.00 - 0.15
ETTALVCDNG	SGLVKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da	45.3	41.8	3	1515.87	0.49	0.11	ACTC_MOUSE	ACTS_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
DNG	SGMCKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	43.4	56.6	3	1594.81	-1.03	0.23	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.15 - 0.25
AAQYSDKGVS	SGPGPMGLMGPR	N-ter +34.06 Da	32.5	43.5	2	1189.67	-2.74	0.18	CO1A2_MOUSE	E0CXI2_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.00 - 0.15
SPSLPPSAKK	SGQKPVLSDVHAELDR	N-ter +28.03 Da, K +28.03 Da	25.3	60.1	4	1806.07	0.87	0.10	DC1L1_MOUSE		Cytoplasmic dynein 1 light intermediate chain 1;	Dynein light chain A;Dynein light intermediate chain 1, cytosolic;	0.25 - 0.75
PSGPVGKDGR	SGQPGPVGPAGVR	N-ter +34.06 Da	39.1	26.2	2	1211.72	-0.17	0.02	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.25 - 0.75
CWLAGVHSNG	SGSSKEGNECLLSKTR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	19.6	73.3	4	1836.08	4.46	1.00	E9PYU6_MOUSE				0.85 - 1.00
HVVPDQLMTF	SGTNDPCALCSLHSIGKIGGAQNR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	43.9	69.1	4	2568.43	1.20	0.21	MIF_MOUSE		Macrophage migration inhibitory factor;	Delayed early response protein 6;Glycosylation-inhibiting factor;L-dopachrome isomerase;L-dopachrome tautomerase;Phenylpyruvate tautomerase;	0.75 - 0.85
ASSREGSPAR	SGTPVHCPSPIR	N-ter +34.06 Da, C +57.02 Da	32.4	44.4	3	1340.77	0.69	0.04	BAG3_MOUSE		BAG family molecular chaperone regulator 3;	Bcl-2-associated athanogene 3;Bcl-2-binding protein Bis;	0.25 - 0.75
SVQVPEFTPK	SGVKIHVSDQELQSANASVDDSR	N-ter +28.03 Da, K +28.03 Da	57.1	59.4	4	2497.39	2.60	0.58	UBA1_MOUSE		Ubiquitin-like modifier-activating enzyme 1;	Ubiquitin-activating enzyme E1;Ubiquitin-activating enzyme E1 X;Ubiquitin-like modifier-activating enzyme 1 X;	0.85 - 1.00
VVLFETATLR	SGYLLPDTKAYGDR	N-ter +28.03 Da, K +28.03 Da	27.2	44.0	3	1610.90	-0.54	0.05	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
DTSQKDQSPA	SHEIATNLGDFAISLYR	N-ter +34.06 Da	34.7	40.8	3	1940.10	0.08	0.04	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
DTSQKDQSPA	SHEIATNLGDFALR	N-ter +28.03 Da	23.4	47.5	3	1570.89	-2.32	0.58	A1AT4_MOUSE		Alpha-1-antitrypsin 1-4;	Alpha-1 protease inhibitor 4;Serine protease inhibitor 1-4;Serine protease inhibitor A1d;	0.00 - 0.15
QGPPAPPNPF	SHLLEGELEEYTKTIER	N-ter +34.06 Da, K +34.06 Da	34.5	65.7	4	2114.29	4.26	0.57	ADDG_MOUSE		Gamma-adducin;	Adducin-like protein 70;	0.85 - 1.00
GLNVPASVRF	SHTDVKVPDFSDYRR	N-ter +28.03 Da, K +28.03 Da	23.7	70.9	4	1877.08	-1.60	0.15	UCRI_MOUSE		Cytochrome b-c1 complex subunit Rieske, mitochondrial;	Complex III subunit 5;Cytochrome b-c1 complex subunit 5;Rieske iron-sulfur protein;Ubiquinol-cytochrome c reductase iron-sulfur subunit;	0.00 - 0.15
GLNVPASVRF	SHTDVKVPDFSDYR	N-ter +28.03 Da, K +28.03 Da	30.0	69.7	4	1720.96	-1.36	0.17	UCRI_MOUSE		Cytochrome b-c1 complex subunit Rieske, mitochondrial;	Complex III subunit 5;Cytochrome b-c1 complex subunit 5;Rieske iron-sulfur protein;Ubiquinol-cytochrome c reductase iron-sulfur subunit;	0.15 - 0.25
RSTCHNQNSM	SICEEFSQQADDKGCFR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	52.5	41.4	3	2132.02	0.55	0.15	A2M_MOUSE	D3YW52_MOUSE	Alpha-2-macroglobulin;	Pregnancy zone protein;	0.25 - 0.75
NQQEGVCPEG	SIDNSPVKWCALSHLER	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	25.3	69.0	4	2067.20	-0.15	0.03	TRFE_MOUSE	E9Q035_MOUSE	Serotransferrin;	Beta-1 metal-binding globulin;Siderophilin;	0.25 - 0.75
ASTSQSSRAA	SIFGGAKPVDTAAR	N-ter +28.03 Da, K +28.03 Da	27.8	50.3	3	1444.88	-1.18	0.14	IF4B_MOUSE	Q3TDD8_MOUSE	Eukaryotic translation initiation factor 4B;		0.15 - 0.25
GLILPGILAK	SIGTLSDPCKDPTR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	21.8	51.3	3	1601.89	1.76	0.44	CDSN_MOUSE		Corneodesmosin;		0.85 - 1.00
QLPNQVLESI	SIIDTPGILSGAKQR	N-ter +28.03 Da, K +28.03 Da	39.4	40.6	3	1611.00	-0.17	0.04	EHD2_MOUSE	Q8R2X0_MOUSE	EH domain-containing protein 2;		0.25 - 0.75
SAGIHETTYN	SIMKCDIDIR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	28.3	52.3	3	1305.75	0.25	0.04	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
LQTRFPLDYY	SIPFPTPTTPLTGR	N-ter +28.03 Da	25.8	36.1	3	1511.89	1.22	0.14	UBP2L_MOUSE	E9PZA1_MOUSE	Ubiquitin-associated protein 2-like;		0.75 - 0.85
SVATQQTTLS	SIPSHPSTAGKIFR	N-ter +28.03 Da, K +28.03 Da	18.3	60.6	4	1552.97	0.61	0.06	A2AQB2_MOUSE	A2AQA9_MOUSE			0.25 - 0.75
WAAVPGKTFV	SITPAEVGVLVGKDR	N-ter +28.03 Da, K +28.03 Da	31.7	40.5	3	1595.99	0.47	0.03	PROF1_MOUSE	Q5SX49_MOUSE	Profilin-1;	Profilin I;	0.25 - 0.75
QLPKVNKNKN	SIVDPKVIVEIHGVGQDVASR	N-ter +28.03 Da, K +28.03 Da	31.1	57.1	4	2273.40	0.65	0.05	PLCD1_MOUSE		1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase delta-1;	Phosphoinositide phospholipase C-delta-1;Phospholipase C-delta-1;	0.25 - 0.75
RTSPVPRQKR	SIVVSPILIPENQR	N-ter +28.03 Da	35.2	45.8	3	1592.00	0.38	0.11	CAD13_MOUSE		Cadherin-13;	Heart cadherin;Truncated cadherin;	0.25 - 0.75
IHQVQYQEMD	SKADDLDLLKSSGVIQR	N-ter +28.03 Da, K +28.03 Da	44.7	61.7	4	1928.21	-0.76	0.08	C163A_MOUSE		Scavenger receptor cysteine-rich type 1 protein M130;		0.25 - 0.75
LLLYAAVAGA	SKAEELHYPQGEHR	N-ter +28.03 Da, K +28.03 Da	19.8	67.1	4	1735.98	2.91	0.60	RCN2_MOUSE	D6RHL9_MOUSE	Reticulocalbin-2;	Taipoxin-associated calcium-binding protein 49;	0.85 - 1.00
QALEGLILEK	SKDQEDAMGGAVQAEQEAEQHSVIMR	N-ter +34.06 Da, K +34.06 Da	24.2	39.5	4	2911.52	-3.06	0.77	E9Q4L7_MOUSE				0.00 - 0.15
IDLSAIKIEF	SKEQQEDFKEAFLLFDR	N-ter +34.06 Da, K +34.06 Da	26.6	61.7	4	2231.37	-0.56	0.12	MYL1_MOUSE	E0CZ30_MOUSE	Myosin light chain 1/3, skeletal muscle isoform;	Myosin light chain alkali 1/2;	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
AAVSTAQPIL	SKLEPQIATASEYAHR	N-ter +28.03 Da, K +28.03 Da	35.4	54.4	4	1856.08	-0.34	0.03	PLIN3_MOUSE		Perilipin-3;	Cargo selection protein TIP47;Mannose-6-phosphate receptor-binding protein 1;	0.25 - 0.75
AKVEAFQASL	SKLGDVYVNDAFGTAHR	N-ter +28.03 Da, K +28.03 Da	22.6	80.0	4	1905.13	-0.84	0.06	PGK1_MOUSE	PGK2_MOUSE	Phosphoglycerate kinase 1;		0.15 - 0.25
QNTVRSFMKR	SKLGPYNEELR	N-ter +28.03 Da, K +28.03 Da	34.4	44.1	3	1360.79	0.74	0.10	TBCB_MOUSE		Tubulin-folding cofactor B;	Cytoskeleton-associated protein 1;Cytoskeleton-associated protein CKAPI;Tubulin-specific chaperone B;	0.25 - 0.75
ERSPLQSLAR	SKPSPQLSAETPVAALPEFPR	N-ter +28.03 Da, K +28.03 Da	49.3	58.2	4	2277.37	0.08	0.02	E9Q0S6_MOUSE				0.25 - 0.75
SLSTFQQMWI	SKQEYDESGPSIVHR	N-ter +28.03 Da, K +28.03 Da	39.4	65.7	4	1787.00	0.20	0.02	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.25 - 0.75
LWSLVATLLG	SKWPEPVFGR	N-ter +34.06 Da, K +34.06 Da	25.6	47.8	3	1269.81	-0.07	0.01	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 +34.06 Da, K +34.06 Da	24.1	54.3	4	2342.53	-0.60	0.15	STEA3_MOUSE	E9QN92_MOUSE	Metalloreductase STEAP3;	Dudulin-2;Protein nm1054;Six-transmembrane epithelial antigen of prostate 3;Tumor suppressor-activated pathway protein 6;	0.25 - 0.75
NIGAARPIKR	SLEDLDLVIAGKKAR	N-ter +28.03 Da, K +28.03 Da	24.1	62.9	4	1711.13	0.71	0.14	ARI5B_MOUSE		AT-rich interactive domain-containing protein 5B;	Developmentally and sexually retarded with transient immune abnormalities protein;MRF1-like;Modulator recognition factor protein 2;	0.25 - 0.75
STVHEILCKL	SLEGDHSTPPSAYGSVKPYTNFDAER	N-ter +34.06 Da, K +34.06 Da	40.7	58.8	4	2892.59	1.02	0.20	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;	0.75 - 0.85
LPKFSISMDN	SLEHILPELGIR	N-ter +28.03 Da	30.4	50.2	3	1403.88	0.77	0.10	SPA3F_MOUSE	SPA3G_MOUSE	Serine protease inhibitor A3F;		0.25 - 0.75
NEMATAASSS	SLEKSYELPDGQVITIGNER	N-ter +28.03 Da, K +28.03 Da	58.4	46.7	3	2303.31	1.29	0.17	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.75 - 0.85
LRPPGGGSNF	SLGFDEPAEQPVR	N-ter +34.06 Da	36.1	43.6	3	1477.83	0.35	0.11	HN1_MOUSE		Hematological and neurological expressed 1 protein;		0.25 - 0.75
FEHRLGEAAR	SLGNAGNEIGR	N-ter +28.03 Da	37.2	34.0	2	1114.61	-0.94	0.13	DMKN_MOUSE	E9QLW7_MOUSE	Dermokine;	Epidermis-specific secreted protein SK30/SK89;	0.15 - 0.25
RPEPQQVGTV	SLHLGVTPSVLR	N-ter +34.06 Da	22.5	48.0	3	1311.87	0.77	0.17	TPP1_MOUSE		Tripeptidyl-peptidase 1;	Lysosomal pepstatin-insensitive protease;Tripeptidyl aminopeptidase;Tripeptidyl-peptidase I;	0.25 - 0.75
ADESAANCDK	SLHTLFGDKLCAIPNLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	29.5	60.6	4	2010.23	1.07	0.20	ALBU_MOUSE		Serum albumin;		0.75 - 0.85
SLTVIHDFLF	SLKESPEKFQIEANFPR	N-ter +28.03 Da, K +28.03 Da	43.0	64.9	4	2103.27	-1.89	0.21	FAF2_MOUSE		FAS-associated factor 2;	UBX domain-containing protein 8;	0.00 - 0.15
SIRSAPPKLA	SLKGVVPEDAVETLAGSLGTR	N-ter +34.06 Da, K +34.06 Da	52.9	48.1	3	2166.36	0.93	0.50	ICAL_MOUSE	Q921U7_MOUSE	Calpastatin;	Calpain inhibitor;	0.25 - 0.75
AMKANTMSNY	SLLPASLLDHR	N-ter +28.03 Da	44.8	66.1	3	1248.80	3.02	0.54	ST2B1_MOUSE	E9QKC1_MOUSE	Sulfotransferase family cytosolic 2B member 1;	Alcohol sulfotransferase;Hydroxysteroid sulfotransferase 2;	0.85 - 1.00
QLIGIQDGYL	SLLQDSGEVR	N-ter +34.06 Da	48.4	24.9	2	1136.65	-0.38	0.05	IF5A1_MOUSE		Eukaryotic translation initiation factor 5A-1;	Eukaryotic initiation factor 5A isoform 1;eIF-4D;	0.25 - 0.75
RSPLQLLGKR	SLPEGVVDGIEVYSTKISCKVTSR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	59.9	52.3	4	2707.59	0.81	0.46	ITIH3_MOUSE	E9PVS1_MOUSE	Inter-alpha-trypsin inhibitor heavy chain H3;		0.25 - 0.75
SGSLSVEEFM	SLPELQQNPLVQR	N-ter +28.03 Da	36.4	41.1	3	1548.93	-0.79	0.03	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
FQTSSSFSAM	SLPGAPTASSGTAAYPALPNR	N-ter +28.03 Da	35.1	40.5	3	2026.13	-3.06	0.77	ARNT_MOUSE	Q3ULM2_MOUSE	Aryl hydrocarbon receptor nuclear translocator;	Dioxin receptor, nuclear translocator;Hypoxia-inducible factor 1-beta;	0.00 - 0.15
LLGSPSRRSY	SLPPHQKVPLPSLSPTMQAGTIAR	N-ter +28.03 Da, K +28.03 Da	45.1	61.5	4	2581.60	1.12	0.04	ODP2_MOUSE		Dihydrolipoyllysine-residue acetyltransferase component of pyruvate dehydrogenase complex, mitochondrial;	Dihydrolipoamide acetyltransferase component of pyruvate dehydrogenase complex;Pyruvate dehydrogenase complex component E2;	0.75 - 0.85
ACFATIKDGK	SLTKDLGGNAKCSDFTEEICR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	39.1	68.4	4	2484.37	4.19	0.98	IDH3A_MOUSE		Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial;	Isocitric dehydrogenase subunit alpha;NAD(+)-specific ICDH subunit alpha;	0.85 - 1.00
DGRKDAQMVH	SNALNEDTQDELGDPR	N-ter +28.03 Da	38.5	63.0	3	1800.93	-0.64	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;	0.25 - 0.75
NKEIFLRELI	SNASDALDKIR	N-ter +28.03 Da, K +28.03 Da	23.8	47.2	3	1244.73	2.62	0.15	HS90B_MOUSE	ENPL_MOUSE	Heat shock protein HSP 90-beta;	Heat shock 84 kDa;Tumor-specific transplantation 84 kDa antigen;	0.85 - 1.00
STAASRATTL	SNAVSSLASTGLSLTKVDER	N-ter +28.03 Da, K +28.03 Da	52.0	46.1	3	2090.22	0.07	0.01	PICA_MOUSE		Phosphatidylinositol-binding clathrin assembly protein;	Clathrin assembly lymphoid myeloid leukemia;	0.25 - 0.75
TPGHACTQKF	SNEEIAMATVTALR	N-ter +28.03 Da	43.0	46.7	3	1532.86	-1.32	0.20	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.15 - 0.25
DKDDLDVTEL	SNEELLDQLVR	N-ter +34.06 Da	28.5	39.3	3	1348.79	-0.89	0.07	LAP2A_MOUSE	LAP2B_MOUSE	Lamina-associated polypeptide 2, isoforms alpha/zeta;	Thymopoietin isoforms alpha/zeta;	0.15 - 0.25
KSKELTTEID	SNIEQMSSHKSEITELR	N-ter +28.03 Da, K +28.03 Da	33.6	60.5	4	2044.15	-0.27	0.02	K1C10_MOUSE	A2A513_MOUSE	Keratin, type I cytoskeletal 10;	56 kDa cytokeratin;Cytokeratin-10;Keratin, type I cytoskeletal 59 kDa;Keratin-10;	0.25 - 0.75
EQFLPMMQAI	SNNKDQGGYEDFVEGLR	N-ter +28.03 Da, K +28.03 Da	63.7	50.3	3	1983.03	-2.32	0.70	MYL1_MOUSE	E9PWG4_MOUSE	Myosin light chain 1/3, skeletal muscle isoform;	Myosin light chain alkali 1/2;	0.00 - 0.15
KSFVLNLGKD	SNNLCLHFNPR	N-ter +28.03 Da, C +57.02 Da	36.3	51.7	3	1398.76	-0.52	0.06	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 +28.03 Da, K +28.03 Da	44.8	59.7	4	2515.41	0.94	0.24	SODE_MOUSE		Extracellular superoxide dismutase [Cu-Zn];		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
ILEGNDIELV	SNSAALIQQATTVKNKDIR	N-ter +28.03 Da, K +28.03 Da	31.4	56.7	4	2141.34	0.06	0.01	RL9_MOUSE		60S ribosomal protein L9;		0.25 - 0.75
TSGDSLTVAS	SNTDFAFSLYR	N-ter +28.03 Da	49.4	38.0	2	1347.70	2.52	0.58	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	45.1	43.1	3	1712.05	-1.40	0.33	E9Q616_MOUSE				0.15 - 0.25
RSRCFGFVTY	SNVEEADAAMAASPHAVDGNTVELKR	N-ter +28.03 Da, K +28.03 Da	104.1	59.3	4	2737.50	0.40	0.12	Q9CX86_MOUSE				0.25 - 0.75
QETDTSQKDQ	SPASHEIATNLGDFALR	N-ter +28.03 Da	39.1	57.6	3	1826.04	-3.06	0.77	A1AT4_MOUSE		Alpha-1-antitrypsin 1-4;	Alpha-1 protease inhibitor 4;Serine protease inhibitor 1-4;Serine protease inhibitor A1d;	0.00 - 0.15
NSTHPMHSRC	SPDPGLTALLSDHR	N-ter +28.03 Da	75.1	47.1	3	1505.85	0.00	0.00	HEMO_MOUSE		Hemopexin;		0.25 - 0.75
YPKRLEKELG	SPPGISLETIDAAFSCPGSSR	N-ter +28.03 Da, C +57.02 Da	56.9	43.9	3	2176.14	-0.42	0.16	HEMO_MOUSE		Hemopexin;		0.25 - 0.75
LVTLQCSHAL	SPTNCDASEPLAEKVLDLINKGR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	26.8	56.4	4	2610.52	3.77	1.76	HRG_MOUSE		Histidine-rich glycoprotein;	Histidine-proline-rich glycoprotein;	0.85 - 1.00
QSGSGRSPRR	SPVHPESSEGEEHSVVPQR	N-ter +28.03 Da	37.3	58.4	4	2114.13	-1.74	0.41	FILA2_MOUSE	FILA2_MOUSE	Filaggrin-2;	Intermediate filament-associated protein;	0.00 - 0.15
DDGHLNNSLG	SPVQADVYFPR	N-ter +28.03 Da	26.7	41.4	3	1305.73	0.00	0.00	LEGLA_MOUSE	E9QAC6_MOUSE	Galectin-related protein A;	Lectin galactoside-binding-like protein A;	0.25 - 0.75
M	SQAEFDKAAEEVKR	N-ter +28.03 Da, K +28.03 Da	25.6	56.4	4	1690.98	-0.06	0.01	ACBP_MOUSE		Acyl-CoA-binding protein;	Diazepam-binding inhibitor;Endozepine;	0.25 - 0.75
DRQGRRGVSE	SQASDSEGHSDFSEGQAVGAHR	N-ter +28.03 Da	44.8	65.7	4	2286.14	1.67	0.82	E9Q019_MOUSE	F7BVV1_MOUSE			0.85 - 1.00
YGSGSLSGYL	SQDTVSVPCKSDQSKAR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	26.1	64.9	4	1976.13	-0.12	0.03	CATD_MOUSE	Q8C243_MOUSE	Cathepsin D;		0.25 - 0.75
PVRNRKVVDY	SQFQESDDADEDYGR	N-ter +34.06 Da	49.4	60.7	3	1794.85	0.99	0.35	NUCKS_MOUSE		Nuclear ubiquitous casein and cyclin-dependent kinases substrate;	JC7;	0.75 - 0.85
FENAFLSHVI	SQHQSLLGNIR	N-ter +28.03 Da	33.7	46.9	3	1279.76	-0.56	0.04	ATPA_MOUSE	D3Z6F5_MOUSE	ATP synthase subunit alpha, mitochondrial;		0.25 - 0.75
TFLPRKIISL	SQLLQEDSLNVADLSSLR	N-ter +28.03 Da	49.3	42.8	3	2015.14	0.06	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
AVVRVAGRRL	SQQSASGAPVLLR	N-ter +34.06 Da	49.3	47.1	3	1346.84	0.37	0.04	ETHE1_MOUSE		Protein ETHE1, mitochondrial;	Ethylmalonic encephalopathy protein 1 homolog;Hepatoma subtracted clone one protein;	0.25 - 0.75
RRDRPRQPSP	SQSSDSQVHSGVQVEGR	N-ter +34.06 Da	58.9	43.2	3	1819.97	2.19	0.61	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.85 - 1.00
QKIFAREILD	SRGNPTVEVDLHTAKGR	N-ter +28.03 Da, K +28.03 Da	28.4	67.5	4	1892.15	-0.30	0.07	ENOB_MOUSE	Q5SX59_MOUSE	Beta-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 3;Muscle-specific enolase;Skeletal muscle enolase;	0.25 - 0.75
RASGPWGRSH	SSAAAEASAALKVRPER	N-ter +34.06 Da, K +34.06 Da	26.5	46.3	4	1781.13	-1.52	0.17	ALAT2_MOUSE	D6RFQ8_MOUSE	Alanine aminotransferase 2;	Glutamate pyruvate transaminase 2;Glutamic--alanine transaminase 2;Glutamic--pyruvic transaminase 2;	0.00 - 0.15
QFLVLLVAGR	SSDAVAGPASSLKQR	N-ter +28.03 Da, K +28.03 Da	44.5	49.7	3	1528.90	0.99	0.10	E9PWQ3_MOUSE	D3YWD1_MOUSE			0.75 - 0.85
VLQTRGFVSD	SSDSMDTGAGSIR	N-ter +28.03 Da	55.8	39.4	2	1310.63	0.06	0.00	ATIF1_MOUSE	Q9D879_MOUSE	ATPase inhibitor, mitochondrial;	Inhibitor of F(1)F(o)-ATPase;	0.25 - 0.75
DRPRQPSPSQ	SSDSQVHSGVQVEGR	N-ter +28.03 Da	60.6	42.3	3	1598.83	0.60	0.11	FILA_MOUSE	F7BVV1_MOUSE	Filaggrin;		0.25 - 0.75
GALAPTPGSA	SSEAPPLVNEDVKR	N-ter +28.03 Da, K +28.03 Da	46.4	51.9	3	1595.93	-1.36	0.21	RPN1_MOUSE		Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1;	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase 67 kDa subunit;Ribophorin I;Ribophorin-1;	0.15 - 0.25
SPRRSPVHPE	SSEGEEHSVVPQR	N-ter +34.06 Da	45.3	48.3	3	1473.80	0.06	0.01	FILA2_MOUSE	E9QPZ3_MOUSE	Filaggrin-2;	Intermediate filament-associated protein;	0.25 - 0.75
TWTHEVFSSR	SSEVVLSGDDEDYQR	N-ter +28.03 Da	37.7	57.3	3	1725.87	0.89	0.12	E9Q616_MOUSE				0.25 - 0.75
TDEQALEDHF	SSFGPISEVVVVKDR	N-ter +28.03 Da, K +28.03 Da	48.9	50.1	3	1674.02	-1.36	0.21	RBM3_MOUSE	Q8BG13_MOUSE	Putative RNA-binding protein 3;	RNA-binding motif protein 3;	0.15 - 0.25
SDVQTAVKTN	SSFIQGFVDHVKEDCDR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	33.2	65.4	4	2094.12	0.08	0.01	SAP_MOUSE	Q8BFQ1_MOUSE	Sulfated glycoprotein 1;	Prosaposin;	0.25 - 0.75
VVLLFETALL	SSGFSLEDPQTHSNR	N-ter +28.03 Da	65.4	51.4	3	1688.86	3.89	0.49	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 +34.06 Da, K +34.06 Da, C +57.02 Da	47.6	32.5	3	1826.06	0.80	0.12	LRC47_MOUSE	F6YT33_MOUSE	Leucine-rich repeat-containing protein 47;		0.25 - 0.75
YTENGGGQGY	SSGPGASPETQGKANVTR	N-ter +34.06 Da, K +34.06 Da	39.1	59.4	3	1811.09	-0.58	0.22	CD34_MOUSE		Hematopoietic progenitor cell antigen CD34;		0.25 - 0.75
DDGLADLLFV	SSGPTNASAFTER	N-ter +28.03 Da	58.4	42.3	2	1351.69	2.07	0.37	MAP4_MOUSE	E9QPW8_MOUSE	Microtubule-associated protein 4;		0.85 - 1.00
PLGYPYVNSV	SSHASSPYISSVQSYPGSASLAQSR	N-ter +34.06 Da	27.3	27.2	3	2587.34	-1.47	0.25	DLX1_MOUSE		Homeobox protein DLX-1;		0.15 - 0.25
GGQRAAWRVL	SSIEQKSNEEGSEEKGPEVKEYR	N-ter +28.03 Da, K +28.03 Da	20.2	56.4	4	2750.52	2.96	1.24	1433S_MOUSE		14-3-3 protein sigma;	Stratifin;	0.85 - 1.00
DLKTGESVVL	SSIPLPSDDFKSTGIKVYEDR	N-ter +28.03 Da, K +28.03 Da	30.2	55.7	4	2437.41	3.18	0.87	PALMD_MOUSE	Q3UVT7_MOUSE	Palmdelphin;		0.85 - 1.00
SSVATQQTTL	SSIPSHPSTAGKIFR	N-ter +34.06 Da, K +34.06 Da	27.2	56.0	4	1652.06	0.60	0.11	A2AQB2_MOUSE	A2AQA9_MOUSE			0.25 - 0.75
KYDMEVKVQK	SSKELEDMNQKLFDLR	N-ter +28.03 Da, K +28.03 Da	33.9	60.0	4	2036.18	0.29	0.05	TNNI2_MOUSE	A2A6K0_MOUSE	Troponin I, fast skeletal muscle;	Troponin I, fast-twitch isoform;	0.25 - 0.75
HVVSVYKPRY	SSLSNHKYVPR	N-ter +28.03 Da, K +28.03 Da	22.7	60.4	3	1342.82	0.38	0.11	CLYBL_MOUSE		Citrate lyase subunit beta-like protein, mitochondrial;		0.25 - 0.75
PNHQKASSGK	SSPFKVSPLSFGR	N-ter +28.03 Da, K +28.03 Da	30.2	55.8	3	1463.90	1.69	0.08	SDPR_MOUSE		Serum deprivation-response protein;	Cavin-2;Phosphatidylserine-binding protein;	0.85 - 1.00
GGLRLLGVRR	SSSAPVASPNVR	N-ter +28.03 Da	41.8	17.7	2	1198.65	0.53	0.09	PYC_MOUSE	E9QPD7_MOUSE	Pyruvate carboxylase, mitochondrial;	Pyruvic carboxylase;	0.25 - 0.75
DDVARHAQVI	SSSGIVSLGIGDR	N-ter +28.03 Da	56.9	36.7	2	1274.73	-0.43	0.02	E9PWQ3_MOUSE	D3YWD1_MOUSE			0.25 - 0.75
RSRGRGFQFV	SSSLPDICYR	N-ter +28.03 Da, C +57.02 Da	42.1	40.1	2	1224.63	2.00	0.43	CNBP_MOUSE	D3YYF6_MOUSE	Cellular nucleic acid-binding protein;	Zinc finger protein 9;	0.85 - 1.00
LVLAARHASA	SSTNLKDVLSNLIPKEQAR	N-ter +28.03 Da, K +28.03 Da	23.6	66.9	4	2196.39	0.60	0.14	CISY_MOUSE		Citrate synthase, mitochondrial;		0.25 - 0.75
KCLPLCAPRC	SSTSAVPQITTHYTVHPR	N-ter +28.03 Da	36.7	57.1	4	2009.15	0.19	0.02	ETFD_MOUSE		Electron transfer flavoprotein-ubiquinone oxidoreductase, mitochondrial;	Electron-transferring-flavoprotein dehydrogenase;	0.25 - 0.75
GPTSNWARRQ	SSVAQPSLHTAQKPR	N-ter +28.03 Da, K +28.03 Da	27.7	54.7	4	1662.01	-0.12	0.02	GATB_MOUSE	Q3TLZ6_MOUSE	Glutamyl-tRNA(Gln) amidotransferase subunit B, mitochondrial;	Cytochrome oxidase assembly factor PET112 homolog;	0.25 - 0.75
LWSWLPSIGF	SSVEEMAAESR	N-ter +28.03 Da	36.3	49.4	2	1222.61	-0.81	0.07	Q3URZ6_MOUSE	F7DBB3_MOUSE			0.15 - 0.25
EVREAKPALK	SSVETQPAEEVR	N-ter +28.03 Da	57.0	35.1	2	1358.72	0.93	0.12	E41L2_MOUSE	Q811B2_MOUSE	Band 4.1-like protein 2;	Generally expressed protein 4.1;	0.25 - 0.75
YQCLVVSRSL	SSVEYEPKEKTFDKILIANR	N-ter +28.03 Da, K +28.03 Da	29.0	62.6	4	2478.53	0.21	0.04	PCCA_MOUSE	D3YZC0_MOUSE	Propionyl-CoA carboxylase alpha chain, mitochondrial;	Propanoyl-CoA:carbon dioxide ligase subunit alpha;	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
SPSGSKSQRY	SSVYGASVSDEDLKR	N-ter +28.03 Da, K +28.03 Da	66.0	48.9	3	1667.92	-0.17	0.03	CHCH3_MOUSE	Q9D9P1_MOUSE	Coiled-coil-helix-coiled-coil-helix domain-containing protein 3, mitochondrial;		0.25 - 0.75
LDKVKSATLS	STESTASGMQDEVR	N-ter +34.06 Da	46.4	60.1	3	1530.80	-0.76	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
KIVAERPGTN	STGPGPMAPPR	N-ter +28.03 Da	40.4	31.9	2	1094.59	-0.30	0.02	TIF1B_MOUSE		Transcription intermediary factor 1-beta;	E3 SUMO-protein ligase TRIM28;KRAB-A-interacting protein;KRIP-1;Tripartite motif-containing protein 28;	0.25 - 0.75
IHRAAAVAAM	STGTFVVSQPLNYR	N-ter +34.06 Da	44.7	45.2	3	1601.94	-0.58	0.07	AL9A1_MOUSE	Q3U367_MOUSE	4-trimethylaminobutyraldehyde dehydrogenase;	Aldehyde dehydrogenase family 9 member A1;	0.25 - 0.75
NKSVQKSGVR	STHQAAVVSKIDSR	N-ter +28.03 Da, K +28.03 Da	38.3	61.0	4	1553.95	1.13	0.23	Q8VCQ8_MOUSE	E9Q0M9_MOUSE			0.75 - 0.85
LPGPFPATHY	STLSKPAPLTGTLEVR	N-ter +28.03 Da, K +28.03 Da	35.5	29.6	3	1725.05	-2.56	0.30	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;	0.00 - 0.15
LCKLSLEGDH	STPPSAYGSVKPYTNFDAER	N-ter +28.03 Da, K +28.03 Da	28.7	40.7	3	2242.18	0.61	0.10	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
LVGLTSLRAV	STSSMGTLPKQVKIVEVGPR	N-ter +28.03 Da, K +28.03 Da	24.7	57.7	4	2197.38	1.09	0.17	HMGCL_MOUSE		Hydroxymethylglutaryl-CoA lyase, mitochondrial;	3-hydroxy-3-methylglutarate-CoA lyase;	0.75 - 0.85
GVHTSVASAT	SVATKKTEQGPPSSEYIFER	N-ter +28.03 Da, K +28.03 Da	38.7	60.0	4	2337.36	-2.00	0.24	OAT_MOUSE		Ornithine aminotransferase, mitochondrial;	Ornithine--oxo-acid aminotransferase;	0.00 - 0.15
SSAFTEDKLV	SVFYTVITPMLNPIVYTLR	N-ter +34.06 Da	26.9	77.5	4	2260.45	-2.40	0.76	OL142_MOUSE	Q8VG62_MOUSE	Olfactory receptor 142;	Olfactory receptor 227-2;Olfactory receptor 4C;	0.00 - 0.15
GNRGEPGPAG	SVGPVGAVGPR	N-ter +28.03 Da	42.0	24.7	2	1022.61	-4.32	0.86	CO1A2_MOUSE	E9Q6U9_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.00 - 0.15
LESKSNKIVQ	SVIQTAVDQFAR	N-ter +28.03 Da	37.8	57.7	3	1361.81	-1.18	0.08	AKA12_MOUSE		A-kinase anchor protein 12;	Germ cell lineage protein gercelin;Src-suppressed C kinase substrate;	0.15 - 0.25
AITARRQHLK	SVMLQIAATELEKEESRR	N-ter +28.03 Da, K +28.03 Da	23.4	57.9	4	2145.27	0.90	0.06	TNNI2_MOUSE	A2A6K0_MOUSE	Troponin I, fast skeletal muscle;	Troponin I, fast-twitch isoform;	0.25 - 0.75
AITARRQHLK	SVMLQIAATELEKEESR	N-ter +34.06 Da, K +34.06 Da	49.3	48.1	3	2001.21	0.99	0.13	TNNI2_MOUSE	A2A6K0_MOUSE	Troponin I, fast skeletal muscle;	Troponin I, fast-twitch isoform;	0.75 - 0.85
TDQVEAHVQN	SVPDEESKPASSNTQVEGDEEAALLER	N-ter +28.03 Da, K +28.03 Da	64.5	57.9	4	2942.57	0.59	0.13	Q8VCQ8_MOUSE	E9Q0M9_MOUSE			0.25 - 0.75
TKIFTASNVS	SVPLPAENVTITAGQR	N-ter +28.03 Da	45.4	48.5	3	1680.00	-4.32	0.86	UBP2L_MOUSE	E9Q9Q3_MOUSE	Ubiquitin-associated protein 2-like;		0.00 - 0.15
VEPDTYCRYD	SVSVFNGAVSDDSKR	N-ter +28.03 Da, K +28.03 Da	47.9	44.2	3	1622.90	-1.74	0.17	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
RYDDMAACMK	SVTEQGAELSNEER	N-ter +28.03 Da	46.7	50.7	3	1575.82	0.12	0.01	1433Z_MOUSE	D3YXF4_MOUSE	14-3-3 protein zeta/delta;	Protein kinase C inhibitor protein 1;SEZ-2;	0.25 - 0.75
ALNDNFVKLI	SWYDNEYGYSNR	N-ter +28.03 Da	34.6	46.0	3	1580.73	4.76	0.83	G3P_MOUSE	F8WJL5_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.85 - 1.00
HDPSLQPWSA	SYDPGSAKTILNNGKTCR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	14.6	60.7	4	2065.19	-0.71	0.11	CAH3_MOUSE		Carbonic anhydrase 3;	Carbonate dehydratase III;Carbonic anhydrase III;	0.25 - 0.75
TAASSSSLEK	SYELPDGQVITIGNER	N-ter +28.03 Da	41.9	51.9	3	1818.01	0.19	0.02	ACTB_MOUSE	ACTA_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.25 - 0.75
QQPQQQQMTS	SYGGYKEPAAPVSIQR	N-ter +28.03 Da, K +28.03 Da	28.7	40.1	3	1778.01	-1.00	0.16	LASP1_MOUSE	A2A6H0_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.15 - 0.25
GLGGNFASQM	SYGYDEKSAGVSVPGPMGPSGPR	N-ter +34.06 Da, K +34.06 Da	68.3	45.4	3	2362.30	-0.74	0.21	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.25 - 0.75
VYLQNWSHVL	SYVSKAESTPEIAEQR	N-ter +28.03 Da, K +28.03 Da	35.6	41.2	3	1850.02	-0.36	0.04	CSN1_MOUSE	B1ATU4_MOUSE	COP9 signalosome complex subunit 1;	G protein pathway suppressor 1;JAB1-containing signalosome subunit 1;	0.25 - 0.75
VALDFENEMA	TAASSSSLEKSYELPDGQVITIGNER	N-ter +28.03 Da, K +28.03 Da	42.7	59.9	4	2807.59	1.87	0.50	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.85 - 1.00
LQKRGTGGVD	TAAVGAVFDISNADR	N-ter +34.06 Da	45.8	45.6	3	1539.88	-0.09	0.01	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
VYMAAVLEYL	TAEILELAGNAAR	N-ter +34.06 Da	34.1	48.8	3	1361.84	-0.47	0.03	H2A1F_MOUSE	H2A1H_MOUSE	Histone H2A type 1-F;		0.25 - 0.75
GSWEPFASGK	TAESGELHGLTTDEKFVEGVYR	N-ter +28.03 Da, K +28.03 Da	41.6	66.4	4	2493.40	0.65	0.15	TTHY_MOUSE		Transthyretin;	Prealbumin;	0.25 - 0.75
AAFSLAEAKF	TAGDFSTTVIQNVNKAQVKIR	N-ter +28.03 Da, K +28.03 Da	50.8	58.8	4	2373.48	1.60	0.29	VATD_MOUSE	E9Q0D9_MOUSE	V-type proton ATPase subunit D;	V-ATPase 28 kDa accessory protein;Vacuolar proton pump subunit D;	0.75 - 0.85
IEDGIFEVKS	TAGDTHLGGEDFDNR	N-ter +28.03 Da	46.0	53.6	3	1631.81	0.86	0.24	HSP7C_MOUSE	HS71A_MOUSE	Heat shock cognate 71 kDa protein;	Heat shock 70 kDa protein 8;	0.25 - 0.75
EQLAAELAEY	TAKIALLEEAR	N-ter +28.03 Da, K +28.03 Da	36.0	43.7	3	1269.82	-0.94	0.07	EZRI_MOUSE		Ezrin;	Cytovillin;Villin-2;p81;	0.15 - 0.25
GAQRMFPMNR	TAKPFLGSMNQPAAPFSPTR	N-ter +28.03 Da, K +28.03 Da	39.5	60.3	4	2173.27	1.06	0.16	SYNP2_MOUSE	D3YVV9_MOUSE	Synaptopodin-2;	Myopodin;	0.75 - 0.85
GPLVEQGRQR	TANLGAGAAQPLR	N-ter +28.03 Da	44.8	38.7	3	1266.75	-1.09	0.12	APOE_MOUSE		Apolipoprotein E;		0.15 - 0.25
QDDWGAWQKF	TASAGIQVVGDDLTVTNPKR	N-ter +28.03 Da, K +28.03 Da	84.5	42.3	3	2097.23	0.63	0.09	ENOA_MOUSE	Q6PHC1_MOUSE	Alpha-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 1;Non-neural enolase;	0.25 - 0.75
ATPQISNLTK	TASESISNLSEAGSVKKGER	N-ter +28.03 Da, K +28.03 Da	34.9	39.8	4	2133.21	0.25	0.04	CLIP1_MOUSE	Q8C0S5_MOUSE	CAP-Gly domain-containing linker protein 1;	Restin;	0.25 - 0.75
NEDLSETKIF	TASNVSSVPLPAENVTITAGQR	N-ter +28.03 Da	41.6	40.7	3	2239.27	0.52	0.10	UBP2L_MOUSE	E9Q9Q3_MOUSE	Ubiquitin-associated protein 2-like;		0.25 - 0.75
EPVWAIGTGK	TATPQQAQEVHEKLR	N-ter +34.06 Da, K +34.06 Da	29.8	51.0	4	1803.12	0.32	0.08	TPIS_MOUSE	E0CXH5_MOUSE	Triosephosphate isomerase;	Triose-phosphate isomerase;	0.25 - 0.75
VMDDFAQFLD	TCCKAADKDTCFSTEGPNLVTR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	53.9	51.4	4	2632.45	0.93	0.17	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
DTCCKAADKD	TCFSTEGPNLVTR	N-ter +34.06 Da, C +57.02 Da	39.7	44.6	3	1514.83	0.86	0.18	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
RVSGEHMDLT	TCPLAAGGQQEKLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	37.2	50.7	3	1583.93	2.68	0.59	Q9D1B1_MOUSE				0.85 - 1.00
MVHL	TDAEKAAVSCLWGKVNSDEVGGEALGR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	63.5	56.3	4	2902.61	-1.25	0.36	HBB1_MOUSE		Hemoglobin subunit beta-1;	Beta-1-globin;Hemoglobin beta-1 chain;Hemoglobin beta-major chain;	0.15 - 0.25
RELPSFLGER	TDEAAFQKVMSNLDSNR	N-ter +28.03 Da, K +28.03 Da	19.8	53.9	3	1981.06	2.02	0.39	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;	0.85 - 1.00
ERRGFCFITY	TDEEPVKKLLESR	N-ter +34.06 Da, K +34.06 Da	20.8	49.6	4	1645.10	-2.18	0.30	HNRDL_MOUSE	F6VQH5_MOUSE	Heterogeneous nuclear ribonucleoprotein D-like;	JKT41-binding protein;	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
QLKKAMEGAG	TDEKTLIEILATR	N-ter +28.03 Da, K +28.03 Da	28.1	41.8	3	1557.96	-1.74	0.41	ANXA6_MOUSE	F8WIT2_MOUSE	Annexin A6;	67 kDa calelectrin;Annexin VI;Annexin-6;Calphobindin-II;Chromobindin-20;Lipocortin VI;Protein III;p68;p70;	0.00 - 0.15
ELKHALKGAG	TDEKVLTEIIASR	N-ter +28.03 Da, K +28.03 Da	31.1	49.2	3	1529.94	-0.30	0.05	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
SVSMIASRKP	TDGASSSNCVTDISHLVR	N-ter +28.03 Da, C +57.02 Da	63.7	52.8	3	1946.02	0.93	0.20	NASP_MOUSE	B1AU75_MOUSE	Nuclear autoantigenic sperm protein;		0.25 - 0.75
INRVYKEMYK	TDLEKDIISDTSGDFR	N-ter +28.03 Da, K +28.03 Da	46.0	53.6	3	1867.02	0.49	0.08	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
GGYKPTDKHK	TDLNHENLKGGDDLDPNYVLSSR	N-ter +28.03 Da, K +28.03 Da	41.5	54.4	4	2627.43	-0.52	0.13	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	25.3	46.1	3	1427.89	0.53	0.11	MYPT1_MOUSE		Protein phosphatase 1 regulatory subunit 12A;	Myosin phosphatase-targeting subunit 1;	0.25 - 0.75
ADFAEITKLA	TDLTKVNKECCHGDLLECADDR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	33.0	65.6	4	2732.44	1.55	0.52	ALBU_MOUSE		Serum albumin;		0.75 - 0.85
AHVDHGKSTL	TDSLVCKAGIIASAR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	29.0	43.9	3	1629.03	-1.00	0.14	EF2_MOUSE		Elongation factor 2;		0.15 - 0.25
ILSVASTVWT	TDTEDKGEFLSEGGGVR	N-ter +34.06 Da, K +34.06 Da	36.0	39.3	3	1864.02	0.77	0.19	Q99K47_MOUSE	E9PV24_MOUSE			0.25 - 0.75
PRHEVTEISN	TDVETQPGKTVIR	N-ter +28.03 Da, K +28.03 Da	33.7	46.1	3	1498.90	0.94	0.17	E9Q616_MOUSE				0.25 - 0.75
NASAEEAIIG	TDVLQDHNAVLDFEHR	N-ter +28.03 Da	55.3	59.3	4	1936.06	0.86	0.12	APRV1_MOUSE		Retroviral-like aspartic protease 1;	Skin-specific retroviral-like aspartic protease;TPA-inducible aspartic proteinase-like protein;	0.25 - 0.75
KAVLDVAETG	TEAAAATGVIGGIR	N-ter +34.06 Da	36.4	43.4	3	1319.82	-1.15	0.18	SPA3K_MOUSE		Serine protease inhibitor A3K;	Contrapsin;SPI-2;	0.15 - 0.25
WLLCALGLQA	TEAELPSAPAELPGGAACLSR	N-ter +28.03 Da, C +57.02 Da	47.4	44.2	3	2124.15	1.12	0.12	SPIT1_MOUSE		Kunitz-type protease inhibitor 1;	Hepatocyte growth factor activator inhibitor type 1;	0.75 - 0.85
AGSYIYEKPQ	TEAPQVTGPIEVPVVR	N-ter +28.03 Da	48.4	50.6	3	1719.04	0.04	0.01	CRIP2_MOUSE		Cysteine-rich protein 2;	Heart LIM protein;	0.25 - 0.75
QEPGQIVETY	TEEDPEGAMSVVSVETTDDGTTR	N-ter +28.03 Da	63.8	48.1	3	2453.19	0.75	0.20	CTND1_MOUSE	E9Q8Z9_MOUSE	Catenin delta-1;	Cadherin-associated Src substrate;p120 catenin;p120(cas);	0.25 - 0.75
LFVRNLANTV	TEEILEKSFSQFGKLER	N-ter +34.06 Da, K +34.06 Da	20.4	64.5	4	2142.38	-2.18	0.20	HNRPQ_MOUSE		Heterogeneous nuclear ribonucleoprotein Q;	Glycine- and tyrosine-rich RNA-binding protein;NS1-associated protein 1;Synaptotagmin-binding, cytoplasmic RNA-interacting protein;pp68;	0.00 - 0.15
QPPVLLPQLL	TEGAELPDITR	N-ter +28.03 Da	40.4	34.9	2	1228.67	-1.22	0.06	TB182_MOUSE		182 kDa tankyrase-1-binding protein;		0.15 - 0.25
VIRFQPGETL	TEILETPATNEQEAEHQR	N-ter +28.03 Da	46.0	30.1	3	2123.08	-0.43	0.08	IQGA1_MOUSE	F6ZJB0_MOUSE	Ras GTPase-activating-like protein IQGAP1;		0.25 - 0.75
SKTEFLSFMN	TELAAFTKNQKDPGVLDR	N-ter +28.03 Da, K +28.03 Da	27.6	57.5	4	2086.26	2.39	0.50	S10AB_MOUSE	F6SJ35_MOUSE	Protein S100-A11;	Calgizzarin;Endothelial monocyte-activating polypeptide;Protein S100-C;S100 calcium-binding protein A11;	0.85 - 1.00
NVNLAQIRTF	TEMDSHEEKVFR	N-ter +28.03 Da, K +28.03 Da	19.8	59.3	4	1562.83	-1.18	0.27	COPD_MOUSE		Coatomer subunit delta;	Archain;Delta-coat protein;	0.15 - 0.25
KLEEERHTLI	TEMVALNPDFKPPADYKPPATR	N-ter +28.03 Da, K +28.03 Da	35.5	63.4	4	2541.49	-0.71	0.13	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
REGEVEVLKA	TEMVEVGPEDDEVGAER	N-ter +28.03 Da	46.3	46.6	3	1888.92	1.14	0.33	PTRF_MOUSE		Polymerase I and transcript release factor;	Cav-p60;Cavin-1;	0.75 - 0.85
QLEEKEKLLA	TEQEDAAVAKSKLR	N-ter +28.03 Da, K +28.03 Da	13.0	55.3	4	1629.00	-1.36	0.31	RRBP1_MOUSE	A2AVJ7_MOUSE	Ribosome-binding protein 1;	Ribosome receptor protein;	0.15 - 0.25
AAPCIYWLPL	TESQIVQKEAEQAER	N-ter +28.03 Da, K +28.03 Da	27.2	49.8	3	1801.01	0.72	0.17	ACINU_MOUSE	B8JJ93_MOUSE	Apoptotic chromatin condensation inducer in the nucleus;		0.25 - 0.75
ESVRSPGSSR	TEVLVTPAGVASKR	N-ter +28.03 Da, K +28.03 Da	34.2	17.2	3	1482.90	1.08	0.11	LAD1_MOUSE		Ladinin-1;	Linear IgA disease antigen homolog;	0.75 - 0.85
TLNAANVPAG	TEVVCAPPTAYIDFAR	N-ter +28.03 Da, C +57.02 Da	50.0	55.1	3	1837.01	-1.25	0.18	TPIS_MOUSE		Triosephosphate isomerase;	Triose-phosphate isomerase;	0.15 - 0.25
SFRILAQMTG	TEYMQDPDEEALRR	N-ter +28.03 Da	29.5	45.0	3	1779.89	0.59	0.14	LDB3_MOUSE	E9PYJ9_MOUSE	LIM domain-binding protein 3;	Protein cypher;Protein oracle;Z-band alternatively spliced PDZ-motif protein;	0.25 - 0.75
DDLTDPAPAT	TFAHLDATTVLSR	N-ter +28.03 Da	38.0	60.7	3	1458.87	-1.12	0.15	ATPB_MOUSE		ATP synthase subunit beta, mitochondrial;		0.15 - 0.25
AFGQGRDMAE	TFDQGAHHAFGQGGR	N-ter +28.03 Da	28.6	65.9	4	1612.86	1.13	0.21	SBSN_MOUSE	E9QPB2_MOUSE	Suprabasin;		0.75 - 0.85
KWKISFDPQD	TFESEFYLDEKR	N-ter +28.03 Da, K +28.03 Da	54.7	48.1	3	1618.87	-1.89	0.42	SPA3K_MOUSE	SPA3M_MOUSE	Serine protease inhibitor A3K;	Contrapsin;SPI-2;	0.00 - 0.15
MANSER	TFIAIKPDGVQR	N-ter +34.06 Da, K +34.06 Da	27.0	45.7	3	1411.95	1.23	0.18	NDKA_MOUSE	NDKB_MOUSE	Nucleoside diphosphate kinase A;	Metastasis inhibition factor NM23;NDPK-A;Tumor metastatic process-associated protein;nm23-M1;	0.75 - 0.85
ADGRKTETVC	TFQDGALVQHQQWDGKESTITR	N-ter +28.03 Da, K +28.03 Da	58.1	65.4	4	2600.47	1.93	0.43	FABP5_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
VTTLDIVRAN	TFVAELKGLDPAR	N-ter +28.03 Da, K +28.03 Da	29.8	55.7	3	1471.92	0.07	0.02	MDHM_MOUSE		Malate dehydrogenase, mitochondrial;		0.25 - 0.75
QPDMAIMAVN	TFVKDCEDPNPLIR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	22.3	44.8	3	1758.98	-3.47	0.39	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;	0.00 - 0.15
PSVWAAVPGK	TFVSITPAEVGVLVGKDR	N-ter +28.03 Da, K +28.03 Da	57.7	44.1	3	1943.19	0.53	0.10	PROF1_MOUSE	Q5SX49_MOUSE	Profilin-1;	Profilin I;	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
LIKEGDVVKR	TGAIVDVPVGEELLGR	N-ter +34.06 Da	40.4	52.1	3	1658.03	2.60	0.67	ATPA_MOUSE	D3Z6F5_MOUSE	ATP synthase subunit alpha, mitochondrial;		0.85 - 1.00
FKEAFLLFDR	TGECKITLSQVGDVLR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	51.8	12.8	3	1843.07	-4.64	1.16	MYL1_MOUSE	E9PWG4_MOUSE	Myosin light chain 1/3, skeletal muscle isoform;	Myosin light chain alkali 1/2;	0.00 - 0.15
SFSQFTGSDG	TGGDAAAPGAAGTQAELPHR	N-ter +28.03 Da	52.1	49.9	3	1875.02	-0.60	0.09	LMAN1_MOUSE		Protein ERGIC-53;	ER-Golgi intermediate compartment 53 kDa protein;Lectin mannose-binding 1;p58;	0.25 - 0.75
LTRLRLQKRG	TGGVDTAAVGAVFDISNADR	N-ter +34.06 Da	70.9	49.4	3	1969.09	0.20	0.04	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
SSKDAIKKKL	TGIKHELQANCYEEVKDR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	26.5	63.6	4	2273.29	0.35	0.08	COF1_MOUSE	F8WGL3_MOUSE	Cofilin-1;	Cofilin, non-muscle isoform;	0.25 - 0.75
PAGKNGDRGE	TGPAGPAGPIGPAGAR	N-ter +28.03 Da	47.2	41.2	3	1373.80	-3.47	0.77	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
HTVEKGGKHK	TGPNLHGLFGR	N-ter +34.06 Da	30.2	54.6	3	1201.74	-0.42	0.04	CYC_MOUSE		Cytochrome c, somatic;		0.25 - 0.75
VHKAVLDVAE	TGTEAAAATGVIGGIR	N-ter +28.03 Da	48.9	47.1	3	1471.87	-3.64	0.46	SPA3K_MOUSE		Serine protease inhibitor A3K;	Contrapsin;SPI-2;	0.00 - 0.15
KCLPLCAPRC	TGTQLPTKIDPEQK	N-ter +28.03 Da, K +28.03 Da	13.9	52.6	4	1639.01	-1.74	0.35	F6XZJ7_MOUSE				0.00 - 0.15
NVARLNFSHG	THEYHAETIKNVR	N-ter +28.03 Da, K +28.03 Da	26.8	67.0	4	1652.97	0.35	0.07	KPYM_MOUSE		Pyruvate kinase isozymes M1/M2;	Pyruvate kinase muscle isozyme;	0.25 - 0.75
IKTKGKEAPF	THFDPSCLFPACR	N-ter +28.03 Da, C +57.02 Da	31.7	49.7	3	1634.82	-0.32	0.02	CAH3_MOUSE		Carbonic anhydrase 3;	Carbonate dehydratase III;Carbonic anhydrase III;	0.25 - 0.75
IFEVKSTAGD	THLGGEDFDNR	N-ter +28.03 Da	38.9	58.7	3	1287.66	1.07	0.19	HS71A_MOUSE	HS71B_MOUSE	Heat shock 70 kDa protein 1A;	Heat shock 70 kDa protein 3;Hsp68;	0.75 - 0.85
CEKIVQKYGY	THLSTGDLLR	N-ter +28.03 Da	30.3	51.1	3	1139.69	0.77	0.05	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.25 - 0.75
AQHLGESTVR	TIAMDGTEGLVR	N-ter +28.03 Da	40.3	38.5	2	1289.71	0.66	0.10	ATPB_MOUSE		ATP synthase subunit beta, mitochondrial;		0.25 - 0.75
NIPLISDPKR	TIAQDYGVLKADEGISFR	N-ter +28.03 Da, K +28.03 Da	33.2	45.1	3	2038.17	0.56	0.13	PRDX1_MOUSE	B1AXW6_MOUSE	Peroxiredoxin-1;	Macrophage 23 kDa stress protein;Osteoblast-specific factor 3;Thioredoxin peroxidase 2;Thioredoxin-dependent peroxide reductase 2;	0.25 - 0.75
GGDVAFVKHT	TIFEVLPEKADR	N-ter +28.03 Da, K +28.03 Da	40.5	51.2	3	1472.90	0.32	0.06	TRFE_MOUSE	D3YYR8_MOUSE	Serotransferrin;	Beta-1 metal-binding globulin;Siderophilin;	0.25 - 0.75
FKVLDPEGKG	TIKKQFLEELLTTQCDR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	31.3	62.2	4	2206.34	0.55	0.05	MLRS_MOUSE		Myosin regulatory light chain 2, skeletal muscle isoform;	Fast skeletal myosin light chain 2;MLC2F;	0.25 - 0.75
AEEVRKDKEE	TIQDTQEEKLEGGAAKR	N-ter +28.03 Da, K +28.03 Da	31.7	58.3	4	1957.16	-0.89	0.12	E41L2_MOUSE	Q811B2_MOUSE	Band 4.1-like protein 2;	Generally expressed protein 4.1;	0.15 - 0.25
TIERKDLQYI	TISKEELSSGDSLSPDPWKR	N-ter +28.03 Da, K +28.03 Da	39.0	63.7	4	2315.35	-0.30	0.04	AFAD_MOUSE	F7C3I9_MOUSE	Afadin;	Protein Af-6;	0.25 - 0.75
PRFNAHGDAN	TIVCNTKEDGTWGTEHR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	37.5	63.7	4	2059.11	-0.20	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
RDAVTTRQVR	TIVEEVQDGKVISSR	N-ter +28.03 Da, K +28.03 Da	45.0	46.0	3	1715.03	4.82	1.26	K1C17_MOUSE	D3YXP7_MOUSE	Keratin, type I cytoskeletal 17;	Cytokeratin-17;Keratin-17;	0.85 - 1.00
ILLDALDKIK	TKGKEAPFTHFDPSCLFPACR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	27.5	67.7	4	2549.43	-0.25	0.02	CAH3_MOUSE		Carbonic anhydrase 3;	Carbonate dehydratase III;Carbonic anhydrase III;	0.25 - 0.75
SLSTFQQMWI	TKQEYDEAGPSIVHR	N-ter +28.03 Da, K +28.03 Da	50.4	55.3	4	1785.00	-0.47	0.09	ACTS_MOUSE		Actin, alpha skeletal muscle;	Alpha-actin-1;	0.25 - 0.75
AALTQAKSQR	TKQSTVLAPVIDLKR	N-ter +28.03 Da, K +28.03 Da	27.1	64.8	4	1752.20	0.40	0.02	SPF45_MOUSE	A2AP40_MOUSE	Splicing factor 45;	45 kDa-splicing factor;RNA-binding motif protein 17;	0.25 - 0.75
VFEWEAFARG	TKSLMDEVVKATSR	N-ter +28.03 Da, K +28.03 Da	26.5	64.4	4	1648.03	-1.36	0.14	PGK1_MOUSE		Phosphoglycerate kinase 1;		0.15 - 0.25
YFIQVMKEYL	TKVDKLDASESLR	N-ter +28.03 Da, K +28.03 Da	32.0	53.1	4	1544.96	1.90	0.31	CLH_MOUSE	Q5SXR6_MOUSE	Clathrin heavy chain 1;		0.85 - 1.00
AEITKLATDL	TKVNKECCHGDLLECADDR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	40.9	62.5	4	2421.35	0.82	0.27	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
QLVAGIKYYL	TLDIESTECR	N-ter +28.03 Da, C +57.02 Da	33.8	33.3	2	1250.62	0.50	0.05	Q9D1B1_MOUSE				0.25 - 0.75
NLDPLNNLGR	TLEIPGSSDPNIVPDGDFSSLVR	N-ter +28.03 Da	39.3	47.1	3	2442.34	0.52	0.23	CO4B_MOUSE		Complement C4-B;		0.25 - 0.75
ELLSQEFLLL	TLEQKNIAVENEVR	N-ter +28.03 Da, K +28.03 Da	35.8	49.6	3	1698.02	1.95	0.40	ASHWN_MOUSE		Ashwin;		0.85 - 1.00
SAANCDKSLH	TLFGDKLCAIPNLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	28.2	42.7	3	1673.01	-3.18	0.29	ALBU_MOUSE		Serum albumin;		0.00 - 0.15
TGEFEKKYVA	TLGVEVHPLVFHTNR	N-ter +28.03 Da	24.2	65.9	4	1746.07	-0.36	0.04	RAN_MOUSE		GTP-binding nuclear protein Ran;	GTPase Ran;Ras-like protein TC4;Ras-related nuclear protein;	0.25 - 0.75
ELRVAPEEHP	TLLTEAPLNPKANR	N-ter +28.03 Da, K +28.03 Da	34.2	36.8	3	1592.98	0.15	0.03	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
GTGSLLSLPT	TLPENALLSVEASGSAQENMPSLARR	N-ter +34.06 Da	24.6	50.2	4	2774.58	-2.74	1.10	CH076_MOUSE		Uncharacterized protein C8orf76 homolog;		0.00 - 0.15
SLPSTAVTSE	TLPGSLSPPVEKYR	N-ter +28.03 Da, K +28.03 Da	27.4	53.0	3	1598.99	-0.62	0.05	DLG1_MOUSE	E9Q9H0_MOUSE	Disks large homolog 1;	Embryo-dlg/synapse-associated protein 97;Synapse-associated protein 97;	0.25 - 0.75
GKAPFALQVN	TLPLNFDKAGDHR	N-ter +28.03 Da, K +28.03 Da	21.2	59.0	4	1538.91	1.04	0.12	A2M_MOUSE	D3YW52_MOUSE	Alpha-2-macroglobulin;	Pregnancy zone protein;	0.75 - 0.85
PFKLRSRKQR	TLSMIEEEIR	N-ter +28.03 Da	38.1	43.1	2	1247.70	0.83	0.11	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
WDGLDPGKLY	TLVLTDPDAPSR	N-ter +28.03 Da	46.4	34.3	2	1311.75	2.47	0.36	PEBP1_MOUSE	D3Z1V4_MOUSE	Phosphatidylethanolamine-binding protein 1;	HCNPpp;	0.85 - 1.00
YANTVLSGGT	TMYPGIADR	N-ter +28.03 Da	33.9	45.3	2	1050.56	0.26	0.01	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
VDKGVVPLAG	TNGETTTQGLDGLSER	N-ter +28.03 Da	40.1	56.0	3	1705.91	-1.25	0.45	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.15 - 0.25
PTFSSLNLRE	TNLESLPLVDTHSKR	N-ter +28.03 Da, K +28.03 Da	24.4	65.3	4	1765.09	1.56	0.13	VIME_MOUSE	E9PZV5_MOUSE	Vimentin;		0.75 - 0.85
DQSPASHEIA	TNLGDFAISLYR	N-ter +28.03 Da	53.6	37.5	2	1396.79	-1.03	0.29	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;	0.15 - 0.25
DSLIEIICSR	TNQELQEINR	N-ter +28.03 Da	30.7	46.5	3	1271.71	0.53	0.04	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
SRLTLYDIAH	TPGVAADLSHIETR	N-ter +34.06 Da	32.2	33.0	3	1499.87	0.24	0.03	MDHM_MOUSE		Malate dehydrogenase, mitochondrial;		0.25 - 0.75
KTIIPLISQC	TPKVDFPQDQLATLTGR	N-ter +28.03 Da, K +28.03 Da	52.8	39.4	3	1942.13	-0.25	0.01	MDHM_MOUSE		Malate dehydrogenase, mitochondrial;		0.25 - 0.75
PGPYAQPSVN	TPLPNLQNGPIYAR	N-ter +28.03 Da	26.7	40.0	3	1580.93	-0.60	0.04	CRK_MOUSE	F7D232_MOUSE	Adapter molecule crk;	Proto-oncogene c-Crk;p38;	0.25 - 0.75
WRCVLKIGEH	TPSALAIMENANVLAR	N-ter +34.06 Da	45.9	43.6	3	1704.02	0.12	0.05	ALDOA_MOUSE	A6ZI44_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	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
GLPGSMGPPG	TPSVDHGFLVTR	N-ter +28.03 Da	36.1	46.8	3	1355.78	0.24	0.03	CO4A1_MOUSE		Collagen alpha-1(IV) chain;		0.25 - 0.75
LNRVCLLHEK	TPVSEHVTKCCSGSLVER	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	37.6	59.3	4	2113.22	1.27	0.28	ALBU_MOUSE		Serum albumin;		0.75 - 0.85
GFQNAILVRY	TQKAPQVSTPTLVEAAR	N-ter +28.03 Da, K +28.03 Da	57.2	18.3	3	1852.08	-0.71	0.12	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
PNMVTPGHAC	TQKFSNEEIAMATVTALR	N-ter +28.03 Da, K +28.03 Da	34.7	45.2	3	2065.18	0.80	0.15	ALDOA_MOUSE	Q9CPQ9_MOUSE	Fructose-bisphosphate aldolase A;	Aldolase 1;Muscle-type aldolase;	0.25 - 0.75
LMTTVHAITA	TQKTVDGPSGKLWR	N-ter +34.06 Da, K +34.06 Da	18.8	55.5	4	1674.12	-0.62	0.10	G3P_MOUSE	F8WJL5_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.25 - 0.75
RMRTHVDSLR	TQLAPHSEQMR	N-ter +28.03 Da	26.6	57.5	3	1324.73	-3.06	0.51	APOA1_MOUSE	Q8BPD5_MOUSE	Apolipoprotein A-I;	Apolipoprotein A1;	0.00 - 0.15
DEESKPASSN	TQVEGDEEAALLER	N-ter +28.03 Da	45.0	46.1	3	1586.85	1.92	0.33	Q8VCQ8_MOUSE	E9Q0M9_MOUSE			0.85 - 1.00
PPRSTEDRLT	TQWREEDEEEAAR	N-ter +28.03 Da	40.0	52.2	3	1675.83	1.98	0.55	LSP1_MOUSE	A2A6J7_MOUSE	Lymphocyte-specific protein 1;	52 kDa phosphoprotein;Lymphocyte-specific antigen WP34;S37 protein;	0.85 - 1.00
VVYLETETLV	TREAVTEILGIEPDR	N-ter +28.03 Da	51.6	57.3	3	1726.02	-0.52	0.06	TSN_MOUSE		Translin;		0.25 - 0.75
MA	TRGTVTDFPGFDGR	N-ter +28.03 Da	32.0	52.7	3	1552.85	-0.74	0.09	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
DQYELLCLDN	TRKPVDQYEDCYLAR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	34.5	68.8	4	1969.11	-0.58	0.11	TRFE_MOUSE	E9Q035_MOUSE	Serotransferrin;	Beta-1 metal-binding globulin;Siderophilin;	0.25 - 0.75
AAAMNLASAR	TSAIPASVNLADSR	N-ter +28.03 Da	39.2	43.0	3	1428.82	-0.79	0.11	SRRM2_MOUSE	E9QMJ6_MOUSE	Serine/arginine repetitive matrix protein 2;		0.25 - 0.75
AALHFNPRLD	TSEVVFNTKEQGKWGR	N-ter +28.03 Da, K +28.03 Da	21.4	61.3	4	1949.16	0.20	0.02	Q9CRB1_MOUSE	D3Z141_MOUSE			0.25 - 0.75
FERPEAEAMC	TSFKENPTTFMGHYLHEVAR	N-ter +28.03 Da, K +28.03 Da	30.4	66.3	4	2420.36	2.24	0.31	ALBU_MOUSE		Serum albumin;		0.85 - 1.00
LIIGDRQTGK	TSIAIDTIINQKR	N-ter +28.03 Da, K +28.03 Da	39.1	42.3	3	1527.96	-0.34	0.07	ATPA_MOUSE	D3Z6F5_MOUSE	ATP synthase subunit alpha, mitochondrial;		0.25 - 0.75
LTSTESLCCE	TSSFSDKYGLGHVTEPR	N-ter +28.03 Da, K +28.03 Da	25.3	65.2	4	1936.10	-1.22	0.06	PLIN4_MOUSE		Perilipin-4;	Adipocyte protein S3-12;	0.15 - 0.25
VGLTSLRAVS	TSSMGTLPKQVKIVEVGPR	N-ter +28.03 Da, K +28.03 Da	20.4	64.0	4	2110.35	0.40	0.09	HMGCL_MOUSE		Hydroxymethylglutaryl-CoA lyase, mitochondrial;	3-hydroxy-3-methylglutarate-CoA lyase;	0.25 - 0.75
SLPKAALIRN	TSSMTEGLQPASVVVLPR	N-ter +34.06 Da	36.9	53.8	3	1905.15	-1.43	0.23	CN159_MOUSE	E9QMK9_MOUSE	UPF0317 protein C14orf159 homolog, mitochondrial;		0.15 - 0.25
VYQQPQQQQM	TSSYGGYKEPAAPVSIQR	N-ter +28.03 Da, K +28.03 Da	24.9	53.4	3	1966.12	-0.92	0.21	LASP1_MOUSE	A2A6H0_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.15 - 0.25
LEAWYRHGRT	TSSYSALSEPSR	N-ter +34.06 Da	44.6	33.6	2	1317.71	-0.01	0.00	MECR_MOUSE	A2A845_MOUSE	Trans-2-enoyl-CoA reductase, mitochondrial;		0.25 - 0.75
RGVHTSVASA	TSVATKKTEQGPPSSEYIFER	N-ter +28.03 Da, K +28.03 Da	51.3	52.7	4	2438.40	-0.84	0.15	OAT_MOUSE		Ornithine aminotransferase, mitochondrial;	Ornithine--oxo-acid aminotransferase;	0.15 - 0.25
APQRPIATQR	TTAAPKAGPGMVR	N-ter +28.03 Da, K +28.03 Da	20.2	50.0	3	1311.80	0.66	0.17	MARE1_MOUSE		Microtubule-associated protein RP/EB family member 1;	APC-binding protein EB1;End-binding protein 1;	0.25 - 0.75
MCDDEE	TTALVCDNGSGLVKAGFAGDDAPR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	56.2	57.8	4	2447.35	0.71	0.19	ACTC_MOUSE	ACTS_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.25 - 0.75
TRVSGEHMDL	TTCPLAAGGQQEKLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	51.8	46.8	3	1684.97	1.77	0.47	Q9D1B1_MOUSE				0.85 - 1.00
ADDLTDPAPA	TTFAHLDATTVLSR	N-ter +28.03 Da	50.9	52.8	3	1559.91	-0.71	0.08	ATPB_MOUSE		ATP synthase subunit beta, mitochondrial;		0.25 - 0.75
AMCTSFKENP	TTFMGHYLHEVAR	N-ter +28.03 Da	31.2	70.4	4	1588.89	0.86	0.07	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
RTVHTTRVCL	TTFNVQDGPDFQDR	N-ter +34.06 Da	45.9	53.9	3	1672.88	0.85	0.21	THIOM_MOUSE	Q3TUS3_MOUSE	Thioredoxin, mitochondrial;	Thioredoxin-2;	0.25 - 0.75
LRVPHARKTG	TTIAGLVFR	N-ter +28.03 Da	25.8	40.4	2	1004.64	2.10	0.59	PSB10_MOUSE		Proteasome subunit beta type-10;	Low molecular mass protein 10;Macropain subunit MECl-1;Multicatalytic endopeptidase complex subunit MECl-1;Proteasome MECl-1;Proteasome subunit beta-2i;	0.85 - 1.00
FKLPKARKTG	TTIAGVVYKDGIVLGADTR	N-ter +34.06 Da, K +34.06 Da	33.7	47.3	3	2016.28	1.66	0.32	PSB7_MOUSE		Proteasome subunit beta type-7;	Macropain chain Z;Multicatalytic endopeptidase complex chain Z;Proteasome subunit Z;	0.85 - 1.00
GGGDVAFVKH	TTIFEVLPEKADR	N-ter +28.03 Da, K +28.03 Da	45.3	47.4	3	1573.95	0.37	0.08	TRFE_MOUSE	D3YYR8_MOUSE	Serotransferrin;	Beta-1 metal-binding globulin;Siderophilin;	0.25 - 0.75
LYANTVLSGG	TTMYPGIADR	N-ter +34.06 Da	26.4	31.8	2	1157.63	-4.64	1.16	ACTA_MOUSE	ACTB_MOUSE	Actin, aortic smooth muscle;	Alpha-actin-2;	0.00 - 0.15
EIIANDQGNR	TTPSYVAFTDTER	N-ter +28.03 Da	40.9	59.4	2	1514.82	1.24	0.21	HS71A_MOUSE	HS71B_MOUSE	Heat shock 70 kDa protein 1A;	Heat shock 70 kDa protein 3;Hsp68;	0.75 - 0.85
ISAVEQTAQR	TTTTAVHIQPAQEQAR	N-ter +28.03 Da	36.4	53.8	3	1779.02	0.29	0.05	TITIN_MOUSE	Q8BUJ6_MOUSE	Titin;	Connectin;	0.25 - 0.75
ITVKTESTVK	TTVFSCNLGEKFDETTADGR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	25.4	45.1	3	2303.18	2.59	0.71	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
DFEHFLPMLQ	TVAKNKDQGTYEDYVEGLR	N-ter +28.03 Da, K +28.03 Da	30.3	62.7	4	2269.30	0.31	0.03	MYL6_MOUSE	E9QLM0_MOUSE	Myosin light polypeptide 6;	17 kDa myosin light chain;Myosin light chain 3;Myosin light chain alkali 3;Smooth muscle and nonmuscle myosin light chain alkali 6;	0.25 - 0.75
QRPRLQLKPR	TVATPLNQVANPNSAIFGGARPR	N-ter +28.03 Da	39.9	49.1	3	2378.40	1.77	0.43	IF4H_MOUSE	Q80U88_MOUSE	Eukaryotic translation initiation factor 4H;	Williams-Beuren syndrome chromosomal region 1 protein homolog;	0.85 - 1.00
QRPRLQLKPR	TVATPLNQVANPNSAIFGGAR	N-ter +28.03 Da	63.4	43.9	3	2125.22	1.18	0.32	IF4H_MOUSE	Q80U88_MOUSE	Eukaryotic translation initiation factor 4H;	Williams-Beuren syndrome chromosomal region 1 protein homolog;	0.75 - 0.85
EKAKREVCSW	TVEGDVNTDPWAGYR	N-ter +28.03 Da	32.4	53.6	3	1706.88	-0.40	0.04	AMPM1_MOUSE		Methionine aminopeptidase 1;	Peptidase M 1;	0.25 - 0.75
QTVSTKSSSN	TVESTSLYNKVAAQGEVVR	N-ter +28.03 Da, K +28.03 Da	26.8	31.4	3	2106.20	2.09	0.18	SYEP_MOUSE		Bifunctional glutamate/proline--tRNA ligase;	Bifunctional aminoacyl-tRNA synthetase;	0.85 - 1.00
REILDSRGNP	TVEVDLHTAKGR	N-ter +34.06 Da, K +34.06 Da	23.4	52.7	3	1392.91	-1.89	0.42	ENOB_MOUSE	Q5SX59_MOUSE	Beta-enolase;	2-phospho-D-glycerate hydro-lyase;Enolase 3;Muscle-specific enolase;Skeletal muscle enolase;	0.00 - 0.15
GCVAGDEESY	TVFKDLFDPIIQDR	N-ter +28.03 Da, K +28.03 Da	44.6	50.4	3	1762.06	0.04	0.02	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 +28.03 Da, C +57.02 Da	32.8	75.7	2	1088.65	-1.12	0.10	ASGL1_MOUSE		L-asparaginase;	Asparaginase-like protein 1;L-asparagine amidohydrolase;	0.15 - 0.25
NCGIVEGLMT	TVHAITATQKTVDGPSGKLWR	N-ter +34.06 Da, K +34.06 Da	41.4	56.7	4	2367.55	-0.71	0.11	G3P_MOUSE	F8WJL5_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.25 - 0.75
VAVTMGPKGR	TVIIEQSWGSPKVTKDGVTVAK	N-ter +28.03 Da, K +28.03 Da	41.5	60.8	4	2454.56	2.03	0.38	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;	0.85 - 1.00
KDVVDYIIFG	TVIQEVKTSNVAR	N-ter +28.03 Da, K +28.03 Da	30.0	47.7	3	1499.94	0.90	0.17	ECHB_MOUSE	D3YXU1_MOUSE	Trifunctional enzyme subunit beta, mitochondrial;	TP-beta;	0.25 - 0.75
VETELRGVCD	TVLGLLDSHLIKGAGDAESR	N-ter +28.03 Da, K +28.03 Da	30.2	94.1	4	2107.36	1.29	0.25	1433S_MOUSE		14-3-3 protein sigma;	Stratifin;	0.75 - 0.85
VDIRKDLYAN	TVLSGGTTMYPGIADR	N-ter +28.03 Da	37.1	47.5	3	1665.92	0.06	0.01	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.25 - 0.75
RQRPEPQQVG	TVSLHLGVTPSVLR	N-ter +28.03 Da	44.1	48.8	3	1505.97	0.40	0.07	TPP1_MOUSE		Tripeptidyl-peptidase 1;	Lysosomal pepstatin-insensitive protease;Tripeptidyl aminopeptidase;Tripeptidyl-peptidase I;	0.25 - 0.75
IVWLLLKEPM	TVSSDQMAKLR	N-ter +34.06 Da, K +34.06 Da	24.0	42.0	3	1302.81	0.41	0.06	CAH3_MOUSE		Carbonic anhydrase 3;	Carbonate dehydratase III;Carbonic anhydrase III;	0.25 - 0.75
VCPSNFYFCK	TVTSVEPLNGNLVR	N-ter +28.03 Da	40.7	41.8	3	1525.91	2.12	0.31	LY6D_MOUSE		Lymphocyte antigen 6D;	Thymocyte B-cell antigen;	0.85 - 1.00
GEFTSARAVL	TVVKDEDHGILDQFSR	N-ter +28.03 Da, K +28.03 Da	26.2	58.8	4	1914.10	1.22	0.19	AKAP2_MOUSE	A2API8_MOUSE	A-kinase anchor protein 2;	AKAP expressed in kidney and lung;Protein kinase A-anchoring protein 2;	0.75 - 0.85
SPGMIKDLGA	TWVVLGHSER	N-ter +28.03 Da	41.5	48.3	3	1210.70	-0.32	0.03	TPIS_MOUSE	E0CXH5_MOUSE	Triosephosphate isomerase;	Triose-phosphate isomerase;	0.25 - 0.75
QGQGDIPTFY	TYEEGLSHLTAEGQATLER	N-ter +34.06 Da	29.0	55.8	3	2138.19	-1.89	0.28	ICLN_MOUSE	Q923F1_MOUSE	Methylosome subunit pICln;	Chloride channel, nucleotide sensitive 1A;Chloride conductance regulatory protein ICln;Chloride ion current inducer protein;	0.00 - 0.15
VSGRQQLVEL	VAEQADLEQAFSPSDPDCVDR	N-ter +28.03 Da, C +57.02 Da	53.3	43.5	3	2376.16	2.44	0.76	API5_MOUSE		Apoptosis inhibitor 5;	AAC-11;	0.85 - 1.00
MGNHLTNLRR	VAGPQPAQTGAPQGSLGEYLFER	N-ter +28.03 Da	53.1	42.3	3	2400.31	3.27	0.77	FRIL1_MOUSE	Q9CPX4_MOUSE	Ferritin light chain 1;	Ferritin L subunit 1;	0.85 - 1.00
KNCGHRFHVL	VANQDFVENVLVR	N-ter +28.03 Da	48.4	51.2	3	1529.90	0.59	0.03	TOM1_MOUSE	Q3UDC3_MOUSE	Target of Myb protein 1;		0.25 - 0.75
WHHSFYNELR	VAPEEHPTLLTEAPLNPKANR	N-ter +28.03 Da, K +28.03 Da	41.1	55.7	4	2352.41	4.38	0.81	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.85 - 1.00
WHHTFYNELR	VAPEEHPVLLTEAPLNPKANR	N-ter +28.03 Da, K +28.03 Da	52.4	57.5	4	2350.44	3.47	0.75	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.85 - 1.00
EERSVNCGTM	VAQPKNLEGYVGFANLPNQVYR	N-ter +28.03 Da, K +28.03 Da	52.1	56.0	4	2532.49	1.21	0.22	E9Q9F5_MOUSE				0.75 - 0.85
AHQLFRGFSF	VATGLMEDDGKPR	N-ter +28.03 Da, K +28.03 Da	37.3	62.8	3	1443.83	-0.52	0.09	KS6A1_MOUSE	Q505N6_MOUSE	Ribosomal protein S6 kinase alpha-1;	90 kDa ribosomal protein S6 kinase 1;MAP kinase-activated protein kinase 1a;Ribosomal S6 kinase 1;	0.25 - 0.75
HLTGEFEKKY	VATLGVEVHPLVFHTNR	N-ter +34.06 Da	41.8	61.7	4	1922.21	-1.03	0.15	RAN_MOUSE		GTP-binding nuclear protein Ran;	GTPase Ran;Ras-like protein TC4;Ras-related nuclear protein;	0.15 - 0.25
VGPEPTTDCF	VAVMHGETEGTVPGNALVVDPEKPFR	N-ter +28.03 Da, K +28.03 Da	51.8	54.7	4	2804.61	0.71	0.15	EHD2_MOUSE		EH domain-containing protein 2;		0.25 - 0.75
DVDEYDENKF	VDEEDGGDGQAGPDEGEVDSCLR	N-ter +28.03 Da, C +57.02 Da	61.7	42.4	3	2433.09	0.51	0.21	ARPC5_MOUSE	Q3UA72_MOUSE	Actin-related protein 2/3 complex subunit 5;	Arp2/3 complex 16 kDa subunit;	0.25 - 0.75
EVNKRDIVFL	VDGSSSLGPSNFNAIR	N-ter +28.03 Da	39.0	54.9	3	1647.91	0.53	0.03	E9PWQ3_MOUSE	D3YWD1_MOUSE			0.25 - 0.75
LMDVGNMGQS	VDISGLQLALAER	N-ter +34.06 Da	19.4	100.8	3	1417.98	-3.18	0.29	CB029_MOUSE		UPF0760 protein C2orf29 homolog;		0.00 - 0.15
AGKHVPRAVF	VDLEPTVIDEVR	N-ter +28.03 Da	27.6	45.4	3	1411.82	2.35	0.36	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
SPTESKDILL	VDLNSEIDTNQNSLR	N-ter +28.03 Da	47.0	48.6	3	1744.94	-0.64	0.09	DAB2_MOUSE	E9QL31_MOUSE	Disabled homolog 2;	DOC-2;Mitogen-responsive phosphoprotein;	0.25 - 0.75
INVKQFAKFV	VDLSDQVAPTDIEEGMR	N-ter +28.03 Da	44.7	53.0	3	1902.00	0.38	0.05	PRS7_MOUSE	Q8BVQ9_MOUSE	26S protease regulatory subunit 7;	26S proteasome AAA-ATPase subunit RPT1;Proteasome 26S subunit ATPase 2;Protein MSS1;	0.25 - 0.75
ASLRFDGALN	VDLTEFQTNLVPYPR	N-ter +28.03 Da	46.9	53.1	3	1819.05	-0.25	0.04	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
MNGTRNWCTL	VDVHPESQTAGSVDILR	N-ter +28.03 Da	51.0	45.7	3	1850.04	-1.03	0.19	TUFT1_MOUSE	D6RGP4_MOUSE	Tuftelin;		0.15 - 0.25
EKLGQGGVQK	VDVPAADLSDQVPDTDSETR	N-ter +28.03 Da	55.6	51.6	3	2157.12	0.81	0.24	CO3_MOUSE		Complement C3;	HSE-MSF;	0.25 - 0.75
MRKLVRSLTM	VEDNEDDDEDGEELLHHHR	N-ter +34.06 Da	59.1	72.3	4	2336.17	-1.00	0.38	LMNA_MOUSE		Prelamin-A/C;		0.15 - 0.25
AVTTRQVRTI	VEEVQDGKVISSR	N-ter +28.03 Da, K +28.03 Da	26.2	49.9	3	1500.89	1.64	0.31	K1C17_MOUSE	D3YXP7_MOUSE	Keratin, type I cytoskeletal 17;	Cytokeratin-17;Keratin-17;	0.75 - 0.85
LNLKQKGYFF	VEGELYCETHAR	N-ter +28.03 Da, C +57.02 Da	46.0	46.7	3	1490.75	-1.74	0.35	PDLI3_MOUSE		PDZ and LIM domain protein 3;	Actinin-associated LIM protein;Alpha-actinin-2-associated LIM protein;	0.00 - 0.15
M	VEKEEAGGGGGGGISEEEAAQYDR	N-ter +28.03 Da, K +28.03 Da	81.5	37.5	3	2450.21	3.31	1.33	SAE1_MOUSE		SUMO-activating enzyme subunit 1;	Ubiquitin-like 1-activating enzyme E1A;	0.85 - 1.00
ICAKLSRQVV	VEKGAEAGSQAEGSPLHPR	N-ter +28.03 Da, K +28.03 Da	51.7	55.9	4	1975.12	0.18	0.05	CASZ1_MOUSE	B1AS47_MOUSE	Zinc finger protein castor homolog 1;	Castor-related protein;	0.25 - 0.75
NEWRRPIIQF	VESVDDKGSSYFSMDSAEGR	N-ter +28.03 Da, K +28.03 Da	19.9	48.4	3	2221.09	0.79	0.25	TRI29_MOUSE		Tripartite motif-containing protein 29;		0.25 - 0.75
EEVANPLLTN	VEVEYPENAILDLTR	N-ter +28.03 Da	53.3	51.7	3	1788.02	1.09	0.26	ITIH3_MOUSE	E9PVS1_MOUSE	Inter-alpha-trypsin inhibitor heavy chain H3;		0.75 - 0.85
EVEVLKATEM	VEVGPEDDEVGAER	N-ter +28.03 Da	39.0	38.3	3	1527.76	0.57	0.08	PTRF_MOUSE		Polymerase I and transcript release factor;	Cav-p60;Cavin-1;	0.25 - 0.75
SEEEIREAFR	VFDKDGNGYISAAELR	N-ter +28.03 Da, K +28.03 Da	43.8	49.9	3	1810.02	1.65	0.23	CALM_MOUSE	Q3UKW2_MOUSE	Calmodulin;		0.75 - 0.85
GYEDFVEGLR	VFDKEGNGTVMGAELR	N-ter +28.03 Da, K +28.03 Da	28.3	36.8	3	1777.97	0.58	0.02	MYL1_MOUSE	MYL3_MOUSE	Myosin light chain 1/3, skeletal muscle isoform;	Myosin light chain alkali 1/2;	0.25 - 0.75
AVQGGAAAPV	VGAVQPVPGMPPMPQAPR	N-ter +34.06 Da	48.2	39.6	3	1862.09	0.04	0.01	SNRPA_MOUSE	D3Z0S6_MOUSE	U1 small nuclear ribonucleoprotein A;		0.25 - 0.75
MRGQ	VGDLSPQQQEALAR	N-ter +28.03 Da	40.7	42.4	3	1538.87	0.91	0.14	S14L4_MOUSE		SEC14-like protein 4;		0.25 - 0.75
ELRGFDGVVC	VGGDGSASEAAR	N-ter +28.03 Da	28.9	57.9	2	1103.58	1.50	0.14	A2AQH1_MOUSE				0.75 - 0.85
M	VGGEASAAVEKLVSGVR	N-ter +28.03 Da, K +28.03 Da	22.1	43.8	3	1684.03	-0.03	0.00	C2AIL_MOUSE		CDKN2AIP N-terminal-like protein;	CDKN2A-interacting protein N-terminal-like protein;	0.25 - 0.75
GAHLIVKKIF	VGGIKEDTEEHHLR	N-ter +28.03 Da, K +28.03 Da	18.5	70.9	4	1674.99	-1.94	0.52	ROA1_MOUSE	ROA2_MOUSE	Heterogeneous nuclear ribonucleoprotein A1;	HDP-1;Helix-destabilizing protein;Single-strand-binding protein;Topoisomerase-inhibitor suppressed;hnRNP core protein A1;	0.00 - 0.15
LVEAARNLGR	VGTKCCTLPEDQR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	33.3	44.2	3	1618.85	0.81	0.27	ALBU_MOUSE		Serum albumin;		0.25 - 0.75
QRHSGPSSYK	VGTMSEKFDCHYCR	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	20.3	62.0	4	1856.98	-5.06	1.69	A2AEX8_MOUSE	A2AEX7_MOUSE			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
M	VGVKPVGSDPDFQPELSGAGSR	N-ter +28.03 Da, K +28.03 Da	21.5	52.3	4	2254.28	3.07	0.53	TXNL1_MOUSE		Thioredoxin-like protein 1;	32 kDa thioredoxin-related protein;	0.85 - 1.00
AYLARHVGLR	VGVPTETGALTLNR	N-ter +28.03 Da	37.5	47.5	3	1454.88	0.12	0.01	THIM_MOUSE		3-ketoacyl-CoA thiolase, mitochondrial;	Acetyl-CoA acyltransferase;Beta-ketothiolase;Mitochondrial 3-oxoacyl-CoA thiolase;	0.25 - 0.75
TEAAAQAAYL	VGVSDPNSQAGQQGLVEPTQFAR	N-ter +28.03 Da	51.6	52.5	4	2412.33	3.04	0.61	TLN1_MOUSE	F8WGT0_MOUSE	Talin-1;		0.85 - 1.00
GIFTGARVFF	VHEGYQGLVDGGEHIR	N-ter +34.06 Da	46.1	62.1	4	1799.03	-3.47	0.39	K6PF_MOUSE		6-phosphofructokinase, muscle type;	Phosphofructo-1-kinase isozyme A;Phosphofructokinase 1;Phosphohexokinase;	0.00 - 0.15
GSGRSPRRSP	VHPESSEGEEHSVVPQR	N-ter +28.03 Da	38.2	61.8	4	1930.04	-0.64	0.11	FILA2_MOUSE	E9QPZ3_MOUSE	Filaggrin-2;	Intermediate filament-associated protein;	0.25 - 0.75
HIFASFNDTF	VHVTDLSGKETICR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	24.4	61.3	4	1669.98	0.06	0.01	RS14_MOUSE	D3YVF4_MOUSE	40S ribosomal protein S14;		0.25 - 0.75
ARRQSRMEKY	VIESSGHAELAR	N-ter +34.06 Da	26.2	55.4	3	1301.79	-3.06	0.51	SYNPO_MOUSE	E9Q3E2_MOUSE	Synaptopodin;		0.00 - 0.15
KRNTHTRRKR	VIGGKPANVGDYPWQVAIKDGQR	N-ter +28.03 Da, K +28.03 Da	19.9	65.0	4	2551.56	-1.06	0.13	CFAI_MOUSE		Complement factor I;	C3B/C4B inactivator;	0.15 - 0.25
FGYKNSKFHR	VIKDFMIQGGDFTR	N-ter +34.06 Da, K +34.06 Da	42.5	47.0	3	1694.03	-2.94	0.45	PPIB_MOUSE		Peptidyl-prolyl cis-trans isomerase B;	CYP-S1;Cyclophilin B;Rotamase B;S-cyclophilin;	0.00 - 0.15
STGAAKAVGK	VIPELNGKLTGMAFR	N-ter +28.03 Da, K +28.03 Da	27.1	40.8	3	1701.03	0.01	0.00	G3P_MOUSE	F8WJL5_MOUSE	Glyceraldehyde-3-phosphate dehydrogenase;	Peptidyl-cysteine S-nitrosylase GAPDH;	0.25 - 0.75
GVANVSIDDR	VISLSGEHSIIGR	N-ter +28.03 Da	40.8	50.1	3	1394.86	-0.52	0.11	SODC_MOUSE		Superoxide dismutase [Cu-Zn];		0.25 - 0.75
TKFENAFLSH	VISQHQSLLGNIR	N-ter +28.03 Da	36.1	42.6	3	1491.92	0.81	0.10	ATPA_MOUSE	D3Z6F5_MOUSE	ATP synthase subunit alpha, mitochondrial;		0.25 - 0.75
DVAALHKAIM	VKGVDEATIIDILTKR	N-ter +28.03 Da, K +28.03 Da	24.5	75.7	4	1854.26	-0.58	0.21	ANXA1_MOUSE	E9QA30_MOUSE	Annexin A1;	Annexin I;Annexin-1;Calpactin II;Calpactin-2;Chromobindin-9;Lipocortin I;Phospholipase A2 inhibitory protein;p35;	0.25 - 0.75
E	VKLVESGGGLVQPGGSLR	N-ter +28.03 Da, K +28.03 Da	43.9	40.9	3	1937.17	-0.54	0.07	HVM17_MOUSE	HVM18_MOUSE	Ig heavy chain V region MOPC 47A;		0.25 - 0.75
LYASGRTTGI	VLDSGDGVTHNVPIYEGYALPHAIMR	N-ter +28.03 Da	51.1	69.0	4	2851.63	3.70	0.66	ACTC_MOUSE	ACTA_MOUSE	Actin, alpha cardiac muscle 1;	Alpha-cardiac actin;	0.85 - 1.00
M	VLESTMVCVDNSEYMR	N-ter +28.03 Da, C +57.02 Da	47.4	66.7	3	1960.00	1.58	0.34	PSMD4_MOUSE		26S proteasome non-ATPase regulatory subunit 4;	26S proteasome regulatory subunit RPN10;26S proteasome regulatory subunit S5A;Multiubiquitin chain-binding protein;	0.75 - 0.85
LEVQGRDSRL	VLEVAQHLGESTVR	N-ter +28.03 Da	46.5	30.0	3	1564.90	0.39	0.07	ATPB_MOUSE		ATP synthase subunit beta, mitochondrial;		0.25 - 0.75
EPPKQSTSFL	VLQEILESDGKGDPNKPSGFR	N-ter +28.03 Da, K +28.03 Da	35.9	60.0	4	2369.40	1.25	0.22	PDLI1_MOUSE		PDZ and LIM domain protein 1;	C-terminal LIM domain protein 1;Elfin;LIM domain protein CLP-36;	0.75 - 0.85
M	VLSNEPAASAAEEEVEDDALVR	N-ter +28.03 Da	58.7	51.0	3	2341.25	-0.97	0.13	TBCD_MOUSE		Tubulin-specific chaperone D;	Beta-tubulin cofactor D;Tubulin-folding cofactor D;	0.15 - 0.25
IAEGVPQLLI	VLTAEPSGDDVR	N-ter +28.03 Da	32.7	30.4	2	1285.69	2.50	0.36	E9PWQ3_MOUSE	D3YWD1_MOUSE			0.85 - 1.00
PFMWNEHLGY	VLTCPSNLGTGLR	N-ter +34.06 Da, C +57.02 Da	28.7	48.0	3	1420.86	-0.58	0.09	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.25 - 0.75
LSKHNNHMAK	VLTPDLYNKLR	N-ter +28.03 Da, K +28.03 Da	18.8	45.3	3	1386.89	-1.94	0.52	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
DRNLAENISR	VLYPNDNFFEGKELR	N-ter +28.03 Da, K +28.03 Da	33.8	57.2	3	1896.09	-1.03	0.11	PYGL_MOUSE	PYGB_MOUSE	Glycogen phosphorylase, liver form;		0.15 - 0.25
IPESLKNMLL	VMDTAEIFHSADAR	N-ter +28.03 Da	53.9	48.7	3	1589.83	1.37	0.30	Q6DFZ1_MOUSE				0.75 - 0.85
EGLNVVKTGR	VMLGETNPADSKPGTIR	N-ter +28.03 Da, K +28.03 Da	29.0	45.7	3	1841.06	-1.52	0.22	NDKA_MOUSE	NDKB_MOUSE	Nucleoside diphosphate kinase A;	Metastasis inhibition factor NM23;NDPK-A;Tumor metastatic process-associated protein;nm23-M1;	0.00 - 0.15
SIVGRPRHQG	VMVGMGQKDSYVGDEAQSKR	N-ter +28.03 Da, K +28.03 Da	30.3	63.6	4	2268.27	-0.89	0.17	ACTS_MOUSE	ACTA_MOUSE	Actin, alpha skeletal muscle;	Alpha-actin-1;	0.15 - 0.25
DQVIQFFIAL	VNDPQPEHPLR	N-ter +28.03 Da	31.8	49.1	3	1328.75	1.50	0.26	UB2L3_MOUSE		Ubiquitin-conjugating enzyme E2 L3;	UbcM4;Ubiquitin carrier protein L3;Ubiquitin-protein ligase L3;	0.75 - 0.85
KIPNFWVTTF	VNHPQVSALLGEEDEEALHYLTR	N-ter +28.03 Da	57.3	53.7	4	2647.47	1.57	0.53	SET_MOUSE	A2BE93_MOUSE	Protein SET;	Phosphatase 2A inhibitor I2PP2A;Template-activating factor I;	0.75 - 0.85
KSAVSCLWAK	VNPDEVGGEALGR	N-ter +34.06 Da	36.0	36.9	2	1345.75	0.19	0.03	HBB2_MOUSE		Hemoglobin subunit beta-2;	Beta-2-globin;Hemoglobin beta-2 chain;Hemoglobin beta-minor chain;	0.25 - 0.75
M	VNPTVFFDITADDEPLGR	N-ter +28.03 Da	55.1	47.4	3	2033.11	0.43	0.16	PPIA_MOUSE	E9Q1E3_MOUSE	Peptidyl-prolyl cis-trans isomerase A;	Cyclophilin A;Cyclosporin A-binding protein;Rotamase A;SP18;	0.25 - 0.75
KAAVSCLWGK	VNSDEVGGEALGR	N-ter +28.03 Da	41.0	76.7	3	1329.75	1.12	0.12	HBB1_MOUSE		Hemoglobin subunit beta-1;	Beta-1-globin;Hemoglobin beta-1 chain;Hemoglobin beta-major chain;	0.75 - 0.85
EAGERRKGTD	VNVFTTILTSR	N-ter +28.03 Da	33.0	80.7	3	1277.84	-0.22	0.03	ANXA1_MOUSE	E9QA30_MOUSE	Annexin A1;	Annexin I;Annexin-1;Calpactin II;Calpactin-2;Chromobindin-9;Lipocortin I;Phospholipase A2 inhibitory protein;p35;	0.25 - 0.75
NGKLTGMAFR	VPTLNVSVVDLTCR	N-ter +28.03 Da, C +57.02 Da	28.4	24.3	3	1599.90	0.12	0.01	D3Z1B7_MOUSE		Glyceraldehyde-3-phosphate dehydrogenase;		0.25 - 0.75
NGKLTGMAFR	VPTPNVSVVDLTCR	N-ter +28.03 Da, C +57.02 Da	46.7	45.4	3	1583.91	2.71	0.30	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 +28.03 Da	22.3	59.4	3	1695.86	0.25	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
SGKGTQCEKI	VQKYGYTHLSTGDLLR	N-ter +34.06 Da, K +34.06 Da	24.5	50.9	4	1918.19	-0.30	0.02	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.25 - 0.75
LSGTAGVQSQ	VQLQQSGAELVK	N-ter +28.03 Da, K +28.03 Da	40.4	28.6	3	1483.87	0.04	0.01	HVM00_MOUSE		Ig heavy chain V region;	Anti-arsonate antibody;	0.25 - 0.75
FYADHPFIFL	VRDNQSGSLLFIGR	N-ter +34.06 Da	51.5	46.2	3	1594.97	-0.92	0.16	SERPH_MOUSE		Serpin H1;	47 kDa heat shock protein;Collagen-binding protein;Serine protease inhibitor J6;	0.15 - 0.25
RSIIRNVKGP	VREGDVLTLLESER	N-ter +28.03 Da	41.3	58.3	3	1642.98	3.10	1.20	RS28_MOUSE		40S ribosomal protein S28;		0.85 - 1.00
KKQIQKLEXR	VRELEGEVENEQKR	N-ter +34.06 Da, K +34.06 Da	28.0	51.9	4	1782.08	-3.32	1.00	MYH1_MOUSE	MYH8_MOUSE	Myosin-1;	Myosin heavy chain 1;Myosin heavy chain 2x;Myosin heavy chain, skeletal muscle, adult 1;	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
KKQIQKLEAR	VRELENEVENEQKR	N-ter +34.06 Da, K +34.06 Da	35.6	50.8	4	1839.11	-1.36	0.17	MYH4_MOUSE		Myosin-4;	Myosin heavy chain 2b;Myosin heavy chain 4;	0.15 - 0.25
GDEKCSTELF	VREPPIMVTKQLEDMNAYCGER	N-ter +34.06 Da, K +34.06 Da, C +57.02 Da	62.9	62.9	4	2703.55	-5.64	2.82	D3YU50_MOUSE	Q6P6L5_MOUSE			0.00 - 0.15
DNGMVLGEQE	VSDNELQELSTQGSR	N-ter +28.03 Da	45.6	49.2	3	1689.90	-0.62	0.09	CLUS_MOUSE	E9Q9B8_MOUSE	Clusterin;	Apolipoprotein J;Clustrin;Sulfated glycoprotein 2;	0.25 - 0.75
GMKVLQTRGF	VSDSSDSMDTGAGSIR	N-ter +34.06 Da	29.9	46.6	3	1617.81	-0.67	0.10	ATIF1_MOUSE	Q9D879_MOUSE	ATPase inhibitor, mitochondrial;	Inhibitor of F(1)F(o)-ATPase;	0.25 - 0.75
GRRGQFGARG	VSEGSAAMAAGESMAQR	N-ter +28.03 Da	61.1	48.4	3	1679.84	-0.71	0.12	ORN_MOUSE		Oligoribonuclease, mitochondrial;	RNA exonuclease 2 homolog;Small fragment nuclease;	0.25 - 0.75
SSADRQGRRG	VSESQASDSEGHSDFSEGQAVGAHR	N-ter +28.03 Da	67.9	59.9	4	2601.29	3.27	1.40	E9Q019_MOUSE	F7BVV1_MOUSE			0.85 - 1.00
LYASGRTTGI	VSFELFADKVPKTAENFR	N-ter +28.03 Da, K +28.03 Da	23.3	62.6	4	2181.32	1.26	0.15	PPIA_MOUSE		Peptidyl-prolyl cis-trans isomerase A;	Cyclophilin A;Cyclosporin A-binding protein;Rotamase A;SP18;	0.75 - 0.85
IESTECRKTR	VSGEHMDLTTCPLAAGGQQEKLR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	59.4	57.5	4	2553.41	2.68	0.74	Q9D1B1_MOUSE				0.85 - 1.00
VWAAVPGKTF	VSITPAEVGVLVGKDR	N-ter +28.03 Da, K +28.03 Da	31.9	49.2	3	1695.08	-0.25	0.04	PROF1_MOUSE	Q5SX49_MOUSE	Profilin-1;	Profilin I;	0.25 - 0.75
GPLFLPYKTL	VSTVGSMVFSEGEAQR	N-ter +34.06 Da	36.8	50.1	3	1716.94	-0.43	0.03	RRBP1_MOUSE	A2AVJ7_MOUSE	Ribosome-binding protein 1;	Ribosome receptor protein;	0.25 - 0.75
SYGYDEKSAG	VSVPGPMGPSGPR	N-ter +34.06 Da	39.6	27.6	2	1270.73	-4.64	1.16	CO1A1_MOUSE	F8WGB7_MOUSE	Collagen alpha-1(I) chain;	Alpha-1 type I collagen;	0.00 - 0.15
EERHVGDLGN	VTAGKDGVANVSIEDR	N-ter +28.03 Da, K +28.03 Da	19.1	43.0	3	1685.97	-1.56	0.32	SODC_MOUSE		Superoxide dismutase [Cu-Zn];		0.00 - 0.15
SASNLIYPIF	VTDVPDDVQPIASLPGVAR	N-ter +28.03 Da	30.8	41.1	3	1976.14	-0.67	0.09	HEM2_MOUSE		Delta-aminolevulinic acid dehydratase;	Porphobilinogen synthase;	0.25 - 0.75
LVAAMQPRML	VTFDEELRPLPVSVR	N-ter +28.03 Da	13.8	50.8	3	1784.07	0.83	0.13	PSMD2_MOUSE	Q80V77_MOUSE	26S proteasome non-ATPase regulatory subunit 2;	26S proteasome regulatory subunit RPN1;26S proteasome regulatory subunit S2;26S proteasome subunit p97;	0.25 - 0.75
LWKFETSKYY	VTIIDAPGHR	N-ter +34.06 Da	36.2	46.4	3	1111.71	-5.06	0.00	EF1A1_MOUSE	D3Z3I8_MOUSE	Elongation factor 1-alpha 1;	Elongation factor Tu;Eukaryotic elongation factor 1 A-1;	0.00 - 0.15
PNRVAQTTKK	VTQLDLDGPKELSR	N-ter +28.03 Da, K +28.03 Da	20.4	49.1	3	1625.98	1.06	0.08	HAP28_MOUSE		28 kDa heat- and acid-stable phosphoprotein;	PDGF-associated protein;PDGFA-associated protein 1;	0.75 - 0.85
YSPLAHRAYS	VVAGGPEVTLTPER	N-ter +34.06 Da	33.3	33.4	3	1457.88	-1.94	0.15	D2HDH_MOUSE	E9QN44_MOUSE	D-2-hydroxyglutarate dehydrogenase, mitochondrial;		0.00 - 0.15
SPLPVIPHQK	VVANSPANADYQER	N-ter +34.06 Da	38.5	49.1	3	1566.86	-1.89	0.35	E9PYJ9_MOUSE				0.00 - 0.15
STSQLVACTK	VVAPTISSPVCQEQLVEAGR	N-ter +28.03 Da, C +57.02 Da	55.2	44.1	3	2167.23	2.38	0.72	TLN1_MOUSE	F8WGT0_MOUSE	Talin-1;		0.85 - 1.00
M	VVEHPEFLKAGKEPGLQIWR	N-ter +34.06 Da, K +34.06 Da	17.6	59.3	4	2434.60	0.26	0.02	GELS_MOUSE	A6PWS5_MOUSE	Gelsolin;	Actin-depolymerizing factor;Brevin;	0.25 - 0.75
LNKNRHPNFL	VVEKDTTINEIEDTFR	N-ter +28.03 Da, K +28.03 Da	33.7	46.3	3	1964.10	1.51	0.19	VATF_MOUSE		V-type proton ATPase subunit F;	V-ATPase 14 kDa subunit;Vacuolar proton pump subunit F;	0.75 - 0.85
RGENLYVVME	VVETLQEVTLER	N-ter +28.03 Da	39.6	40.0	3	1442.86	-0.25	0.02	GSDMA_MOUSE		Gasdermin-A;	Gasdermin-1;Gasdermin-A1;	0.25 - 0.75
LIATEEGFKA	VVGDDEYLHFHHR	N-ter +28.03 Da	39.0	66.8	4	1650.90	0.42	0.15	LEG7_MOUSE	Q9CRB1_MOUSE	Galectin-7;		0.25 - 0.75
TRAERREVER	VVVDALSGLKGDLAGR	N-ter +28.03 Da, K +28.03 Da	24.6	40.0	3	1625.02	-0.17	0.02	KCRU_MOUSE	A2ARP5_MOUSE	Creatine kinase U-type, mitochondrial;	Acidic-type mitochondrial creatine kinase;Ubiquitous mitochondrial creatine kinase;	0.25 - 0.75
GESLQAFLIA	VVVPDVESLPSWAQKR	N-ter +28.03 Da, K +28.03 Da	39.8	54.7	3	1865.14	2.24	0.21	ACSL1_MOUSE	D3Z041_MOUSE	Long-chain-fatty-acid--CoA ligase 1;	Long-chain acyl-CoA synthetase 1;	0.85 - 1.00
FSLGLSLLLL	VVVSVIGSQNSQLR	N-ter +28.03 Da	32.1	35.7	3	1512.92	1.78	0.18	MMGL_MOUSE	F8WHB7_MOUSE	Macrophage asialoglycoprotein-binding protein 1;	MMGL;Macrophage galactose/N-acetylgalactosamine-specific lectin;	0.85 - 1.00
GSVAGGAVYL	VYDQELLGPSDKSEAALR	N-ter +28.03 Da, K +28.03 Da	30.1	43.7	3	2046.15	1.16	0.32	QIL1_MOUSE		Protein QIL1;		0.75 - 0.85
DAEKSAVSCL	WAKVNPDEVGGEALGR	N-ter +28.03 Da, K +28.03 Da	46.6	55.5	3	1753.01	-2.32	0.46	HBB2_MOUSE		Hemoglobin subunit beta-2;	Beta-2-globin;Hemoglobin beta-2 chain;Hemoglobin beta-minor chain;	0.00 - 0.15
LLPQWPAASA	WELTILHTNDVHSR	N-ter +28.03 Da	30.2	65.9	4	1748.02	-0.42	0.08	5NTD_MOUSE		5'-nucleotidase;	Ecto-5'-nucleotidase;	0.25 - 0.75
GEDKSNIKAA	WGKIGGHGAEYGAEALER	N-ter +34.06 Da, K +34.06 Da	36.6	53.3	4	1968.15	-0.43	0.04	HBA_MOUSE	Q91VB8_MOUSE	Hemoglobin subunit alpha;	Alpha-globin;Hemoglobin alpha chain;	0.25 - 0.75
DAEKAAVSCL	WGKVNSDEVGGEALGR	N-ter +28.03 Da, K +28.03 Da	35.9	49.4	3	1728.97	1.38	0.35	HBB1_MOUSE		Hemoglobin subunit beta-1;	Beta-1-globin;Hemoglobin beta-1 chain;Hemoglobin beta-major chain;	0.75 - 0.85
LASLSTFQQM	WISKQEYDEAGPSIVHR	N-ter +28.03 Da, K +28.03 Da	24.9	65.9	4	2070.19	-1.43	0.23	ACTA_MOUSE	ACTC_MOUSE	Actin, aortic smooth muscle;	Alpha-actin-2;	0.15 - 0.25
LASLSTFQQM	WISKQEYDESGPSIVHR	N-ter +34.06 Da, K +34.06 Da	31.9	52.7	4	2098.22	0.20	0.05	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.25 - 0.75
LASLSTFQQM	WITKQEYDEAGPSIVHR	N-ter +34.06 Da, K +34.06 Da	35.5	56.3	4	2096.25	-1.25	0.18	ACTS_MOUSE		Actin, alpha skeletal muscle;	Alpha-actin-1;	0.15 - 0.25
TYRIWRDTAN	WLEINPETGAIFTR	N-ter +28.03 Da	41.2	49.4	3	1673.96	-0.40	0.07	CADH1_MOUSE		Cadherin-1;	ARC-1;Epithelial cadherin;Uvomorulin;	0.25 - 0.75
VRCAAQRDGT	WLHSDKFTLKVR	N-ter +28.03 Da, K +28.03 Da	23.9	40.6	4	1613.01	-0.76	0.05	KIT_MOUSE	Q8C8K9_MOUSE	Mast/stem cell growth factor receptor Kit;	Proto-oncogene c-Kit;Tyrosine-protein kinase Kit;	0.25 - 0.75
LAHFDPRVTM	WVFEEDIGGR	N-ter +28.03 Da	32.1	59.9	2	1234.67	-0.71	0.08	GPDA_MOUSE	E0CXN5_MOUSE	Glycerol-3-phosphate dehydrogenase [NAD+], cytoplasmic;		0.25 - 0.75
FQQMWISKQE	YDESGPSIVHR	N-ter +28.03 Da	34.8	50.7	3	1286.69	0.28	0.05	ACTB_MOUSE	ACTG_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.25 - 0.75
NSPLVSRLTL	YDIAHTPGVAADLSHIETR	N-ter +28.03 Da	40.0	60.9	4	2093.18	-1.60	0.34	MDHM_MOUSE		Malate dehydrogenase, mitochondrial;		0.00 - 0.15
LREDPAYLHY	YDPAGGEDPLGAVHLR	N-ter +34.06 Da	73.0	56.2	3	1699.97	0.52	0.11	PLEK_MOUSE	Q8CAG6_MOUSE	Pleckstrin;		0.25 - 0.75
VNIGGAGSYI	YEKPQTEAPQVTGPIEVPVVR	N-ter +28.03 Da, K +28.03 Da	52.6	54.0	4	2392.43	1.44	0.50	CRIP2_MOUSE		Cysteine-rich protein 2;	Heart LIM protein;	0.75 - 0.85
AASSSSLEKS	YELPDGQVITIGNER	N-ter +28.03 Da	49.0	47.7	3	1730.97	0.51	0.10	ACTB_MOUSE	ACTA_MOUSE	Actin, cytoplasmic 1;	Beta-actin;	0.25 - 0.75
DWLKNVLVTL	YERDEGNNLLTEKQKLR	N-ter +28.03 Da, K +28.03 Da	33.9	58.7	4	2189.31	-0.52	0.12	SPRC_MOUSE	Q5NCU4_MOUSE	SPARC;	Basement-membrane protein 40;Osteonectin;Secreted protein acidic and rich in cysteine;	0.25 - 0.75
PPLNPILSAN	YERPVLHLVALNTPVAGDIR	N-ter +28.03 Da	40.4	63.5	4	2260.41	1.93	0.20	COFA1_MOUSE	A2AJY7_MOUSE	Collagen alpha-1(XV) chain;		0.85 - 1.00
LGLAAADPAI	YFKEQFLDGDAWTNR	N-ter +28.03 Da, K +28.03 Da	47.4	58.8	3	1945.05	4.00	1.82	CALR_MOUSE		Calreticulin;	CRP55;Calregulin;Endoplasmic reticulum resident protein 60;HACBP;	0.85 - 1.00
GKFVLSSGKF	YGDLEKDKGLQTSQDAR	N-ter +28.03 Da, K +28.03 Da	31.2	57.6	4	2007.14	3.28	0.95	CALR_MOUSE		Calreticulin;	CRP55;Calregulin;Endoplasmic reticulum resident protein 60;HACBP;	0.85 - 1.00
QPQQQQMTSS	YGGYKEPAAPVSIQR	N-ter +28.03 Da, K +28.03 Da	22.5	44.5	3	1690.98	0.58	0.12	LASP1_MOUSE	A2A6H0_MOUSE	LIM and SH3 domain protein 1;	Metastatic lymph node gene 50 protein;	0.25 - 0.75
KLTLTELIDF	YGIDDNLLHYNR	N-ter +28.03 Da	38.3	53.3	3	1519.82	-0.71	0.14	SFR1_MOUSE		Swi5-dependent recombination DNA repair protein 1 homolog;	Meiosis protein 5 homolog;	0.25 - 0.75
LADQNIKDRY	YGINDPVADKLLKR	N-ter +28.03 Da, K +28.03 Da	26.9	61.2	4	1685.09	-0.14	0.02	RBM22_MOUSE		Pre-mRNA-splicing factor RBM22;	RNA-binding motif protein 22;	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
LGGNFASQMS	YGYDEKSAGVSVPGPMGPSGPR	N-ter +34.06 Da, K +34.06 Da	50.2	42.8	3	2275.26	-3.32	1.00	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	38.1	49.4	3	1528.89	1.64	0.36	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.75 - 0.85
KAIMTYVSSF	YHAFSGAQKAETAANR	N-ter +28.03 Da, K +28.03 Da	51.1	56.5	4	1776.99	1.66	0.42	ACTN1_MOUSE	ACTN4_MOUSE	Alpha-actinin-1;	Alpha-actinin cytoskeletal isoform;F-actin cross-linking protein;Non-muscle alpha-actinin-1;	0.85 - 1.00
DIDRVPFLNS	YIDGVTMEEATVSGILGKR	N-ter +28.03 Da, K +28.03 Da	44.1	47.7	3	2094.20	0.33	0.09	ZCCHV_MOUSE	D3Z5I1_MOUSE	Zinc finger CCCH-type antiviral protein 1;		0.25 - 0.75
TPDKPSPNMF	YIDPEKGDIVTVVSPALLDR	N-ter +28.03 Da, K +28.03 Da	37.7	54.2	3	2255.36	1.53	0.63	CAD13_MOUSE		Cadherin-13;	Heart cadherin;Truncated cadherin;	0.75 - 0.85
HGSNGRSKTD	YKGLEEEGEEGNKQNLR	N-ter +28.03 Da, K +28.03 Da	27.0	59.3	4	2076.17	1.23	0.22	E9Q019_MOUSE				0.75 - 0.85
QEINRVYKEM	YKTDLEKDIISDTSGDFR	N-ter +28.03 Da, K +28.03 Da	45.7	60.5	4	2186.24	0.43	0.05	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
AGLPTSLLTL	YLDNNKISNIPDEYFKR	N-ter +34.06 Da, K +34.06 Da	35.5	62.7	4	2230.39	-2.40	0.88	LUM_MOUSE		Lumican;	Keratan sulfate proteoglycan lumican;	0.00 - 0.15
KYQLVAGIKY	YLTLDIESTECR	N-ter +28.03 Da, C +57.02 Da	29.1	51.6	3	1526.81	-0.56	0.05	Q9D1B1_MOUSE				0.25 - 0.75
LGKLPSLAFL	YMEKNQLEEVPSALPR	N-ter +34.06 Da, K +34.06 Da	45.4	45.7	3	1971.17	2.07	0.27	PRELP_MOUSE		Prolargin;	Proline-arginine-rich end leucine-rich repeat protein;	0.85 - 1.00
ETIKKRLETY	YNATEPVISFYDKR	N-ter +34.06 Da, K +34.06 Da	41.0	38.8	3	1770.03	-0.86	0.19	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.15 - 0.25
VGASDGYLYM	YNLDPQEGGECALMR	N-ter +28.03 Da, C +57.02 Da	36.5	73.3	3	1779.92	-0.03	0.01	WIPI2_MOUSE	D3YWK1_MOUSE	WD repeat domain phosphoinositide-interacting protein 2;		0.25 - 0.75
STSSPVFHPK	YQACSGPILPHR	N-ter +28.03 Da, C +57.02 Da	35.2	50.2	3	1425.79	0.48	0.04	Q99M20_MOUSE				0.25 - 0.75
GRKSGKGFYI	YQEGSKNKSLNSEMDNILANLR	N-ter +28.03 Da, K +28.03 Da	26.8	77.6	4	2607.54	1.94	0.32	ECHA_MOUSE		Trifunctional enzyme subunit alpha, mitochondrial;	TP-alpha;	0.85 - 1.00
DKAKELWDTL	YQLETDKFEFGEKLKR	N-ter +34.06 Da, K +34.06 Da	23.0	63.1	4	2166.44	-2.94	0.45	TNNT3_MOUSE	A2A6J0_MOUSE	Troponin T, fast skeletal muscle;	Fast skeletal muscle troponin T;	0.00 - 0.15
RLMEIYQEKL	YRPPPVLDALGR	N-ter +28.03 Da	36.0	51.8	3	1380.86	1.03	0.13	E9Q005_MOUSE	E9PVA8_MOUSE			0.75 - 0.85
PGLTGNFAAQ	YSDKGVSSGPGPMGLMGPR	N-ter +28.03 Da, K +28.03 Da	69.9	43.5	3	1948.04	-2.40	0.50	CO1A2_MOUSE	E0CXI2_MOUSE	Collagen alpha-2(I) chain;	Alpha-2 type I collagen;	0.00 - 0.15
VQVEEYIADL	YSEEPGEEEPAWVQTER	N-ter +28.03 Da	51.0	49.1	3	2063.01	0.32	0.05	RCN3_MOUSE	D3Z7T1_MOUSE	Reticulocalbin-3;		0.25 - 0.75
SPRRSQVHPE	YSEGEAHSEVSQR	N-ter +28.03 Da	18.8	46.9	3	1505.75	-0.14	0.05	FILA2_MOUSE	E9QPZ3_MOUSE	Filaggrin-2;	Intermediate filament-associated protein;	0.25 - 0.75
AAMKANTMSN	YSLLPASLLDHR	N-ter +28.03 Da	55.8	50.5	3	1411.85	2.80	0.79	ST2B1_MOUSE	E9QKC1_MOUSE	Sulfotransferase family cytosolic 2B member 1;	Alcohol sulfotransferase;Hydroxysteroid sulfotransferase 2;	0.85 - 1.00
FIHHELLAYL	YSSADQSSLMEESAEQAQR	N-ter +28.03 Da	61.6	54.2	3	2144.05	1.38	0.34	DYN2_MOUSE	Q91Z39_MOUSE	Dynamin-2;	Dynamin UDNM;	0.75 - 0.85
CTFFLAVSGL	YSSSDDVIELTPSNFNR	N-ter +28.03 Da	50.2	48.6	3	1971.02	1.43	0.21	PDIA6_MOUSE	Q3TML0_MOUSE	Protein disulfide-isomerase A6;	Thioredoxin domain-containing protein 7;	0.75 - 0.85
SYMKIDELSL	YSVPEGQSKYVEEPR	N-ter +28.03 Da, K +28.03 Da	24.7	41.7	3	1822.99	-0.01	0.00	APOO_MOUSE	B1ASQ2_MOUSE	Apolipoprotein O;	Protein FAM121B;	0.25 - 0.75
YGFQNAILVR	YTQKAPQVSTPTLVEAAR	N-ter +28.03 Da, K +28.03 Da	66.2	43.0	3	2015.19	3.52	0.54	ALBU_MOUSE		Serum albumin;		0.85 - 1.00
QKIGQPTLLL	YVDAGAETMTQR	N-ter +34.06 Da	42.4	52.3	3	1374.74	1.56	0.40	KAD1_MOUSE		Adenylate kinase isoenzyme 1;	ATP-AMP transphosphorylase 1;Myokinase;	0.75 - 0.85
MYAKRAFVHW	YVGEGMEEGEFSEAR	N-ter +28.03 Da	44.6	50.2	3	1716.82	5.27	1.31	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
LGGAIDSGAA	YVLEQASSHIGNSTQAAVR	N-ter +28.03 Da	48.8	39.8	3	2058.13	1.36	0.27	ATLA3_MOUSE	E9PYT3_MOUSE	Atlastin-3;		0.75 - 0.85
HPFMWNEHLG	YVLTCPSNLGTGLR	N-ter +34.06 Da, C +57.02 Da	31.0	43.6	3	1583.92	-2.56	0.15	KCRM_MOUSE		Creatine kinase M-type;	Creatine kinase M chain;M-CK;	0.00 - 0.15
AFRPMEVANF	YYEPDCLAYGAKAAR	N-ter +28.03 Da, K +28.03 Da, C +57.02 Da	39.9	59.1	3	1802.97	-0.64	0.09	CEBPB_MOUSE		CCAAT/enhancer-binding protein beta;	AGP/EBP;Interleukin-6-dependent-binding protein;Liver-enriched transcriptional activator;	0.25 - 0.75
LQKRPKPDEK	YYSSSIWGPTCDGLDR	N-ter +34.06 Da, C +57.02 Da	25.7	101.6	4	1910.07	-6.64	0.00	DCOR_MOUSE	Q8CIC5_MOUSE	Ornithine decarboxylase;		0.00 - 0.15