

Supporting Information

Development of Versatile Metal–Organic Framework Functionalized Magnetic Graphene Core–Shell Biocomposite for Highly Specific Recognition of Glycopeptides

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EXPERIMENTAL SECTION

Materials. Bovine serum albumin (BSA), horseradish peroxidase (HRP), trypsin (proteomics grade), 2-methylimidazole (MIM, purity 99%), 2, 5-dihydroxy-benzoic acid (DHB), dithiothreitol (DTT) and indoaceamide (IAA) were obtained from Sigma-Aldrich. FeCl₃•6H₂O, NH₄HCO₃, sodium acetate, ethylene glycol, and Zn(NO₃)₂•6H₂O were purchased from Sinopharm Chemical Reagent, Co., Ltd (Shanghai, China). PNGase F (Genetimes Technology) was acquired from New England Biolabs (Ipswich, MA, U.S.A.). All used ultrapure water were purified by Milli-Q system (Millipore, Bedford, MA). All of other chemicals are of analytical grade.

Preparation of MG@Zn-MOFs. The magnetic graphene sheets (magG) were prepared via a hydrothermal reaction were synthesized as previously described.³² An amount of 300 mg of magG were dispersed in aqueous solution containing 2 mmol Zn(NO₃)₂•6H₂O to form the solution A by ultrasonication. Next, 20 mmol 2-methylimidazole was added into 40 mL of water solution to form the solution B. Then solution A and B were mixed and stirred with ultrasound for 10 min at room temperature. After crystallization, the as-synthesized MG@Zn-MOFs biocomposite was collected by the help of a magnet and washed with water and ethanol three times, respectively.

For comparison, the amount of 2-methylimidazole was added into the magG water solution directly to form MG@MIM composites.

Measurements and Characterizations. Scanning electron microscopy (SEM) images were acquired on a Philips XL30 electron microscope (the Netherlands) operating at 20 kV. Transmission electron microscopy (TEM) images and energy dispersive x-ray spectra were taken on a JEOL 2011 microscope (Japan) operated at 200 kV. Powder X-ray diffraction

patterns were recorded on a Bruker D4 X-ray diffractometer with Ni-filtered Cu K α radiation (40 kV, 40 mA). Nitrogen adsorption-desorption isotherms were measured with a Micromeritics Tristar 3000 analyzer (USA) at 77 K.

Sample Preparation. The HRP standard glycoprotein was dissolved in 25mM NH₄HCO₃ buffer, then the solution was heated at 100 °C for 10 min. After the solution cooled to 25 °C, trypsin was added into the solution at an enzyme/substrate ratio of 1:50 (w/w) at 37 °C with overnight shaking.

The treating process of human serum is the same as the previous reports.¹³ Briefly, the serum was thawed on the ice, and 1 μ L of serum sample was diluted with 20 μ L ultrapure water. The mixture was treated with 10 mM DTT at 60 °C for 30 min and alkylated with 20 mM IAA at 37 °C for 1 h in the dark. In order to obtain the serum protein sample, acetone solution was added with an protein solution/acetone ratio of 1:6 (v/v) at -20 °C overnight. Prior to digestion, the solution was diluted with 50 mM NH₄HCO₃ until the protein final concentration is 2 mg/mL. Then the solution was digested with trypsin (protein: enzyme = 30:1, w/w) for 16 h under shaking.

Enrichment of Glycopeptides from Biological Samples. About 10 mg of MG@Zn-MOFs biocomposite was washed with loading buffer three times and then re-dispersed in the ACN/H₂O/TFA 85:14:1 solution. 800 μ g of MG@Zn-MOFs was added into a certain concentration of sample solution (HRP digestion and human serum extracts sample), which were incubated at 37 °C for 30 min with shaking. Then the biocomposite and supernatant were collected respectively with the magnet. After that, the biocomposite was washed with loading buffer to remove non-glycopeptides for 3 times. Finally, the obtained glycopeptides were eluted by 10 μ L the ACN/H₂O/TFA 30:69.9:0.1 solution for 15 min at 37 °C. For the

analysis of human serum samples, the collected peptides were further deglycosylation for LC-MS/MS analyses.

MALDI-TOF-MS Analysis. The glycopeptides sample elution (1 µL) was deposited on the target and then another DHB aqueous solution was introduced as a matrix. MALDI-TOF-MS experiments were performed in positive ion mode on a 5800 Proteomics Analyzer (Applied Biosystems, Framingham, MA, USA) with the Nd-YAG laser at 383 nm, a repetition rate of 200 Hz and an acceleration voltage of 20 kV.

Nano-Liquid Chromatography Tandem Mass Spectrometry (Nano-LC-MS/MS)

Analysis of Glycopeptides. Glycopeptides enriched from human serum were resuspended with 10 µL solvent A (A: water with 0.1% formic acid; B: ACN with 0.1% formic acid) and then separated by nanoLC and analyzed by on-line electrospray tandem mass spectrometry. The experiments were performed on an EASY-nLC 1000 system (Thermo Fisher Scientific, Waltham, MA) connected to an Orbitrap Fusion mass spectrometer (Thermo Fisher Scientific, San Jose, CA) equipped with an online nano-electrospray ion source. 8 µL peptide sample was loaded onto the trap column (Thermo Scientific Acclaim PepMap C18, 100µm x 2cm), with a flow of 10µL/min for 3 min and subsequently separated on the analytical column (Acclaim PepMap C18, 75µm x 25cm) with a linear gradient, from 2% B to 25% B in 105 min. The column was re-equilibrated at initial conditions for 15 min. The column flow rate was maintained at 300 nL/min and column temperature was maintained at 40 °C. The electrospray voltage of 2.0 kV versus the inlet of the mass spectrometer was used. The Orbitrap Fusion mass spectrometer was operated in the data-dependent mode to switch automatically between MS and MS/MS acquisition. Survey full-scan MS spectra (m/z 350-1500) were acquired in Orbitrap with a mass resolution of 120 000 at m/z 200. The AGC taget was set to 1 000 000, and the maximum injection time was 50ms. MS/MS acquisition

was performed in Orbitrap with 3 s cycle time, the resolution was 15 000 at m/z 200. The intensity threshold was 50 000, and the maximum injection time was 100 ms. The AGC target was set to 200 000, and the isolation window was 2 m/z. Ions with charge states 2+, 3+, and 4+ were sequentially fragmented by higher energy collisional dissociation (HCD) with a normalized collision energy (NCE) of 35%, fixed first mass was set at 110. In all cases, one microscan was recorded using dynamic exclusion of 30 seconds.

Database Search. Tandem mass spectra were extracted by Proteome Discoverer software (Thermo Fisher Scientific, version 1.4.0.288). Charge state deconvolution and deisotoping were not performed. All MS/MS samples were analyzed using Mascot (Matrix Science, London, UK; version 2.3.2). The database was the Human UniProtKB/Swiss-Prot database (Release 2015-03-11, with 20199 sequences). Raw files generated by the Orbitrap Fusion were searched directly using a 10 ppm precursor mass tolerance and a 50 mmu fragment mass tolerance. The enzyme specificity with trypsin was used. Up to two missed cleavages were allowed and peptides with at least 7 amino acids were retained. Carbamidomethyl on cysteine was set as a fixed modification. Oxidation on methionine and Deamidation on asparagine were set as variable modifications. Use the percolator algorithm to control peptide level false discovery rates (FDR) lower than 1%. The Asn modification that did not occur in the N-X-S/T (X≠P) sequon was eliminated to ensure the false positive rate below 1% for the identified glycosylation sites.

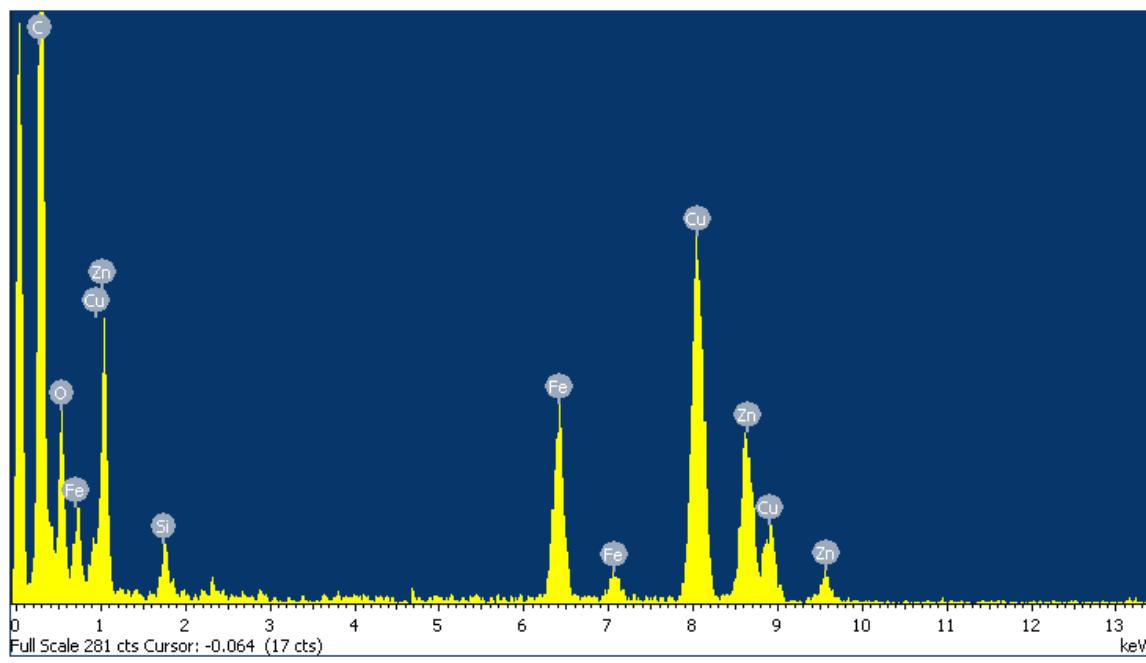


Figure S1. The energy dispersive X-ray (EDX) spectrum data of MG@Zn-MOFs biocomposite.

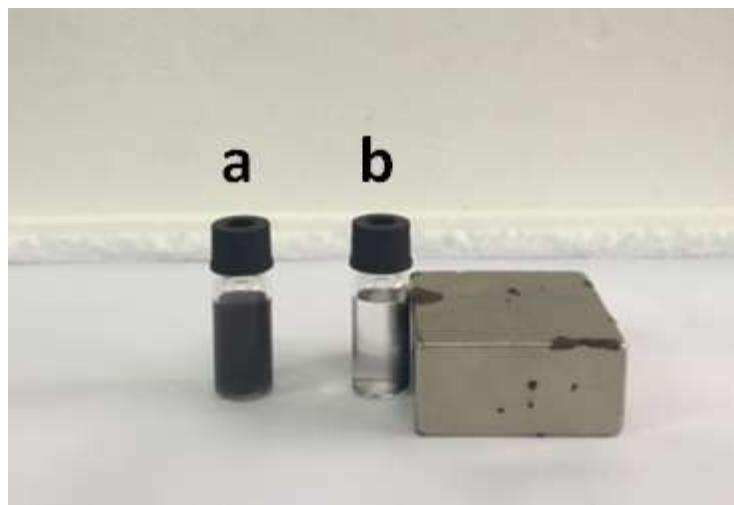


Figure S2. The photos of the aqueous dispersion of MG@Zn-MOFs biocomposite: (a) before and (b) after separation by a magnet for 2 seconds.

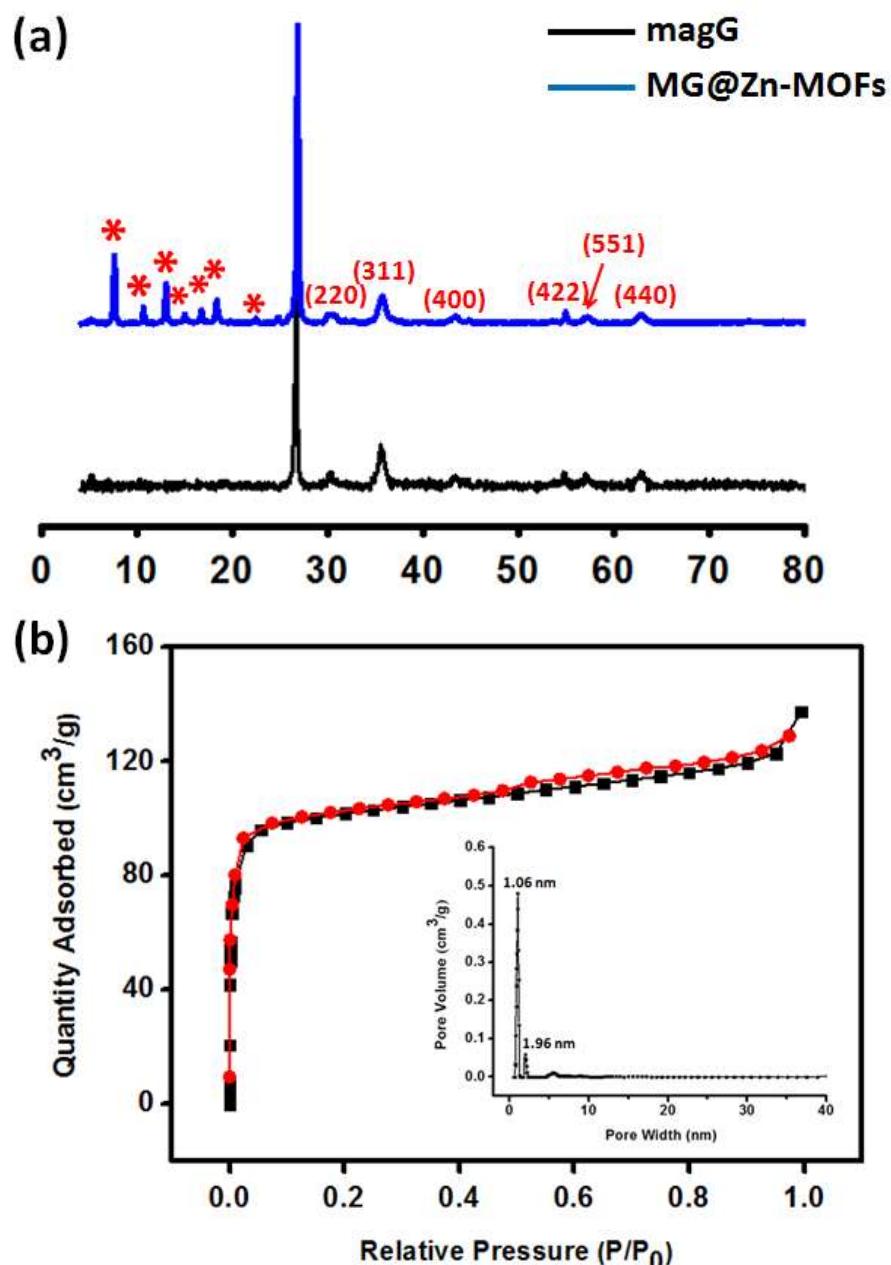


Figure S3. Characterization of the prepared biocomposite. (a) PXRD analysis of magG and MG@Zn-MOFs biocomposite and (b) N₂ adsorption/desorption isotherms and the corresponding pore size distribution of MG@Zn-MOFs (inset).

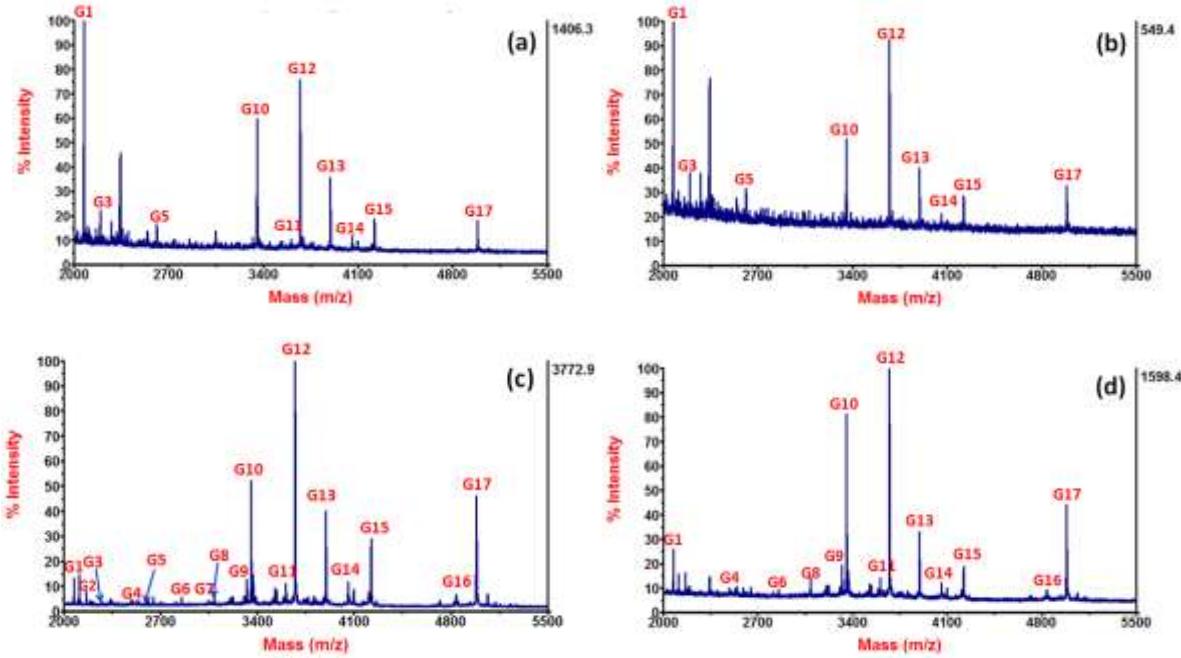


Figure S4. MALDI-TOF-MS analysis of peptides derived from HRP enriched by MG@Zn-MOFs with different buffer solution (a) ACN/H₂O/TFA 95:4:1; (b) ACN/H₂O/TFA 95:4.9:0.1; (c) ACN/H₂O/TFA 85:14:1, and (d) ACN/H₂O/TFA 85:14.9:0.1.

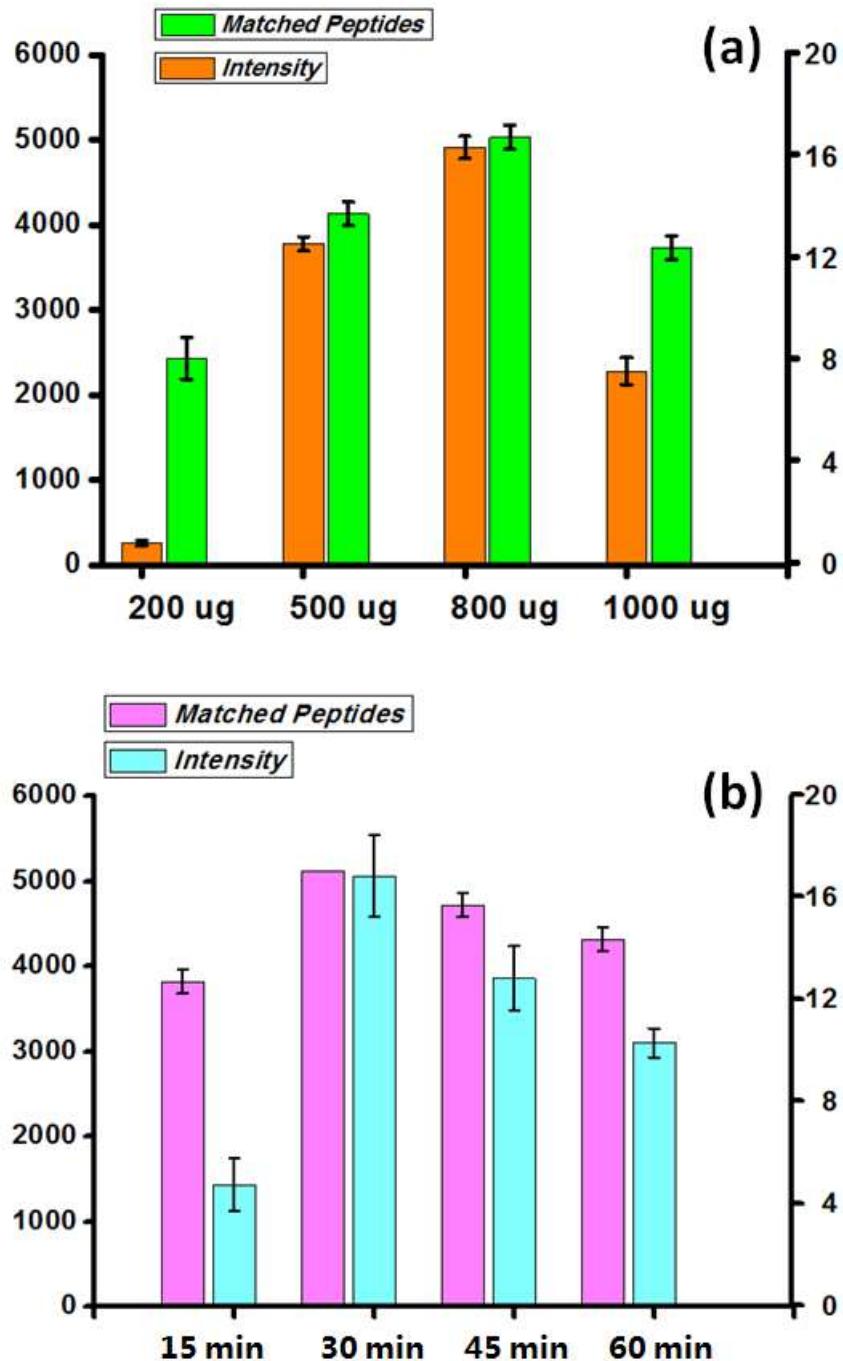


Figure S5. The effect of different quantity of the MG@Zn-MOFs biocomposite and enrichment time in glycopeptides enriched from 10^{-6} M HRP tryptic digest (a, b) through three parallel tests.

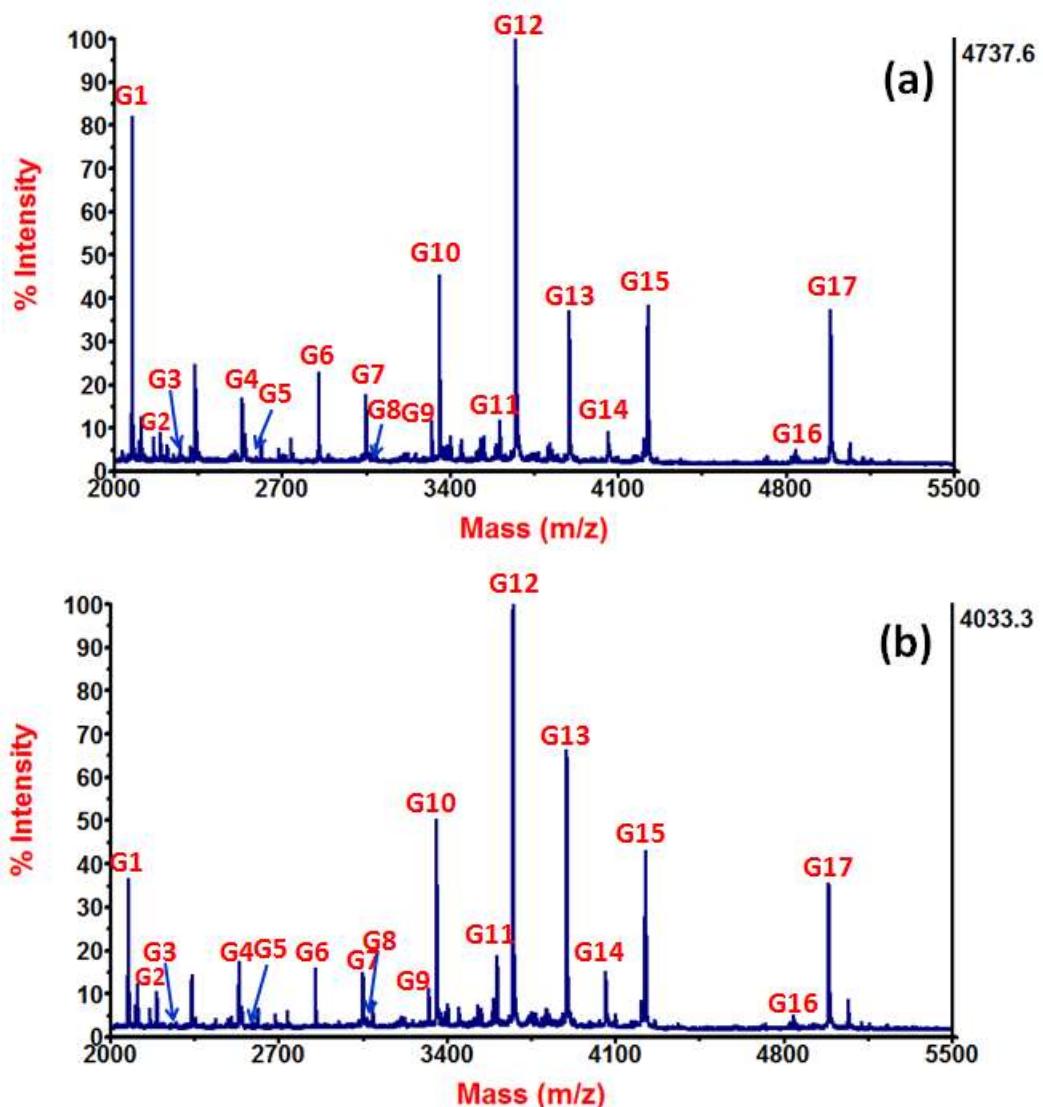


Figure S6. MALDI-TOF-MS for the glycopeptides derived from HRP tryptic digest: (a) after treatment with MG@Zn-MOFs used for the first time and (b) after enrichment with MG@Zn-MOFs recycled 5 times. The peaks of glycopeptides or their fragments are marked with “GX” (X=Arabic numerals).

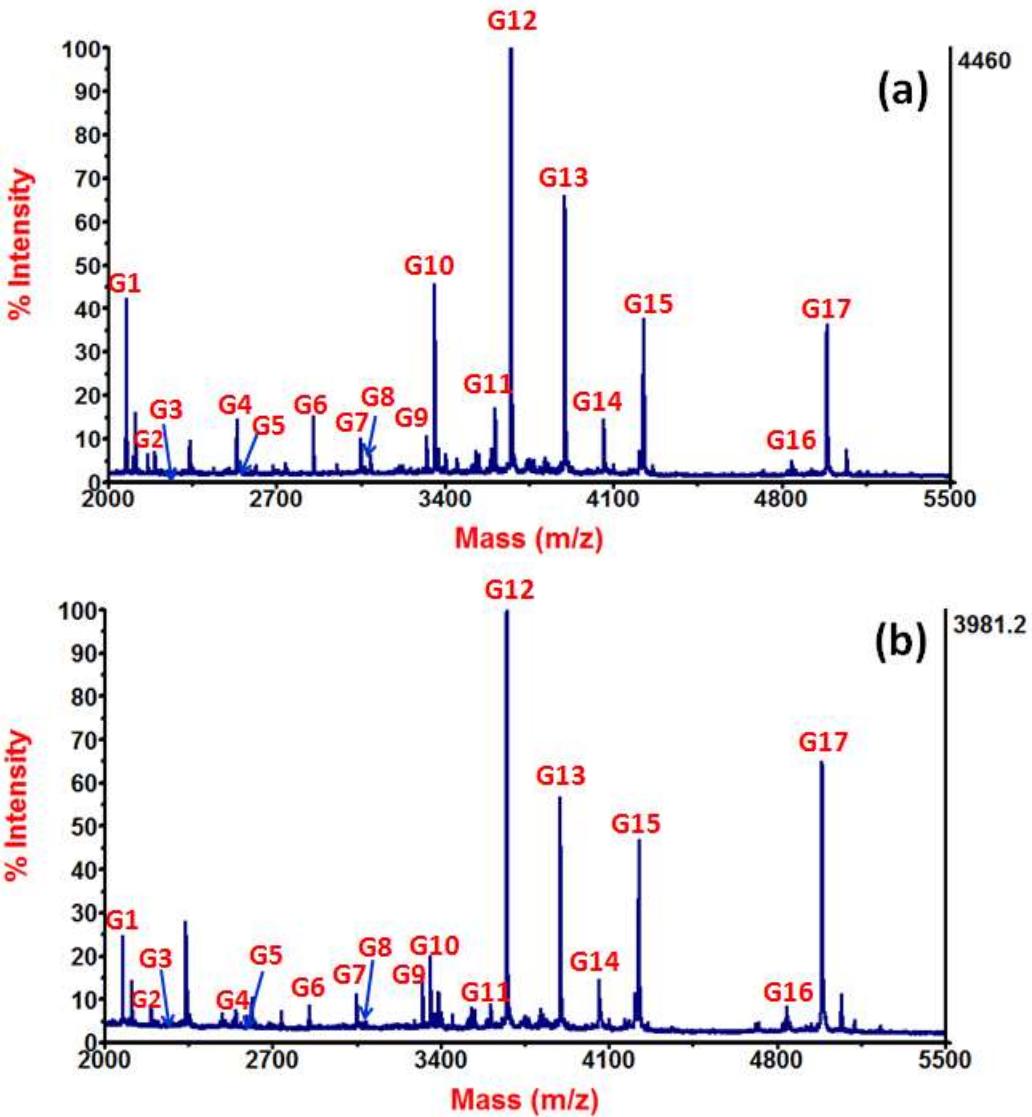


Figure S7. MALDI-TOF-MS for the glycopeptides derived from HRP tryptic digest: (a) after treatment with the MG@Zn-MOFs used for the first time and (b) after enrichment with the MG@Zn-MOFs which had been placed for two months. Glycopeptide peaks identified are marked with the symbol “GX” (X=Arabic numerals).

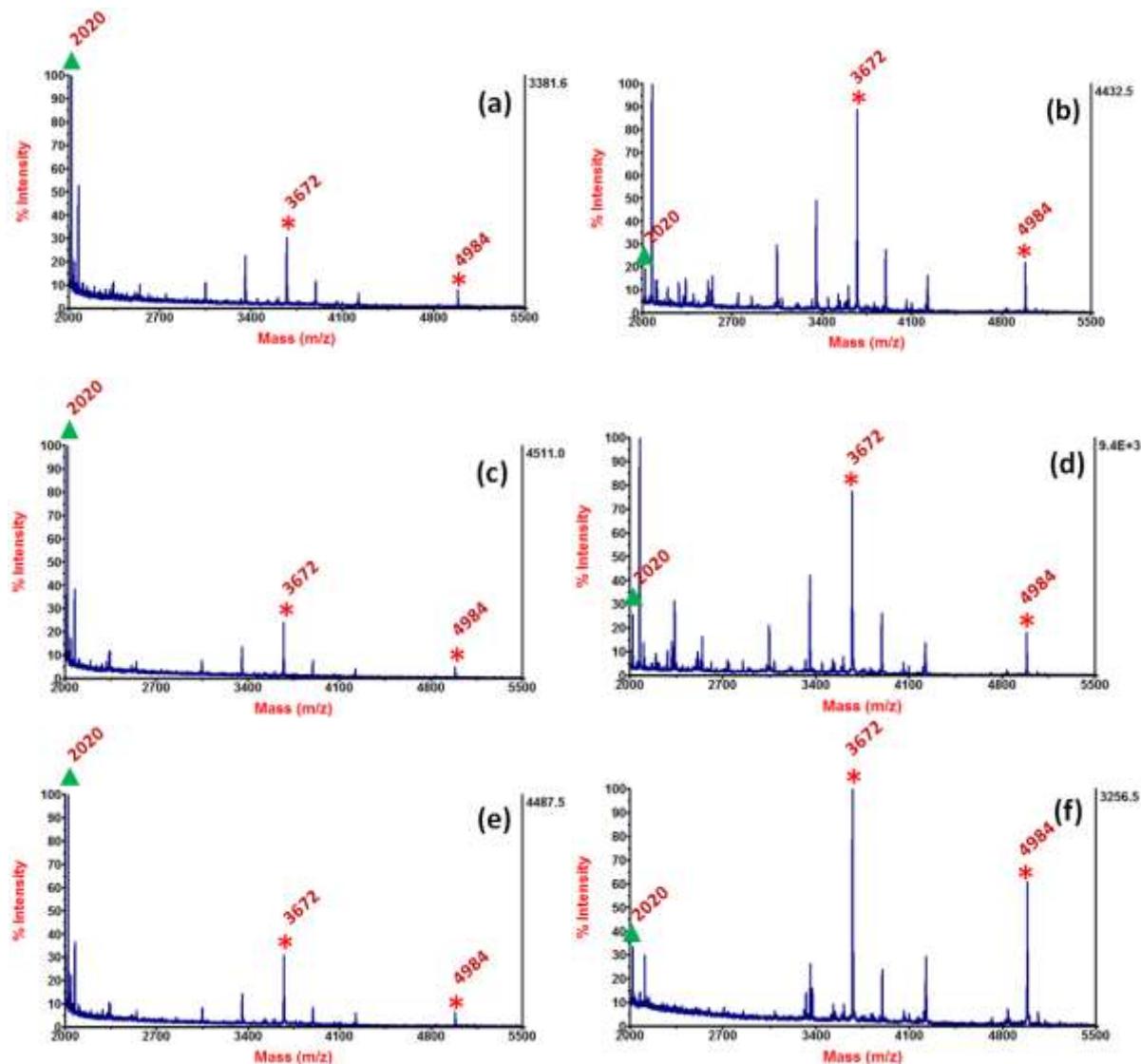


Figure S8. MALDI-TOF-MS for the peptides derived from HRP tryptic digest (a, c and e) before; (b, d and f) after enrichment with MG@Zn-MOFs, where the triangle symbol indicates the standard glycopeptide ($\text{Mr}=2020$ Da) and * indicates the glycopeptides ($\text{Mr}=3672$ Da/4984 Da).

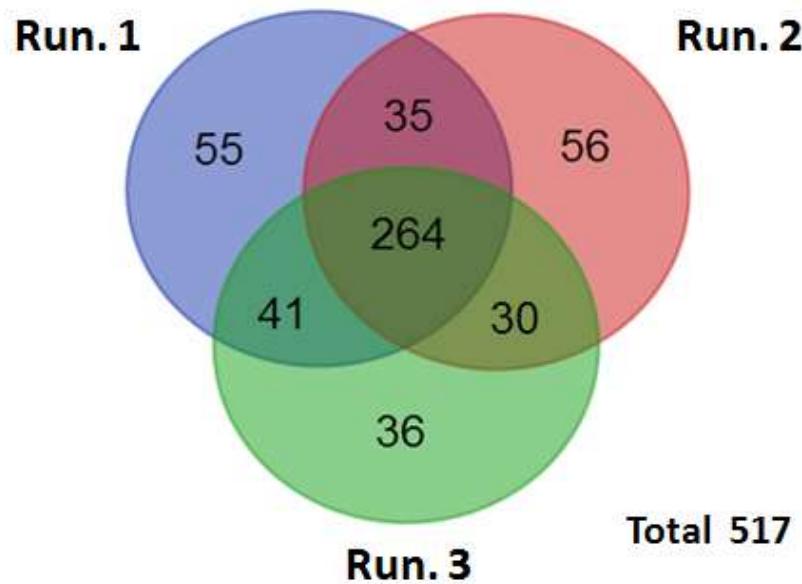


Figure S9. Data of three independent LC/MS runs of the identified N-glycopeptides enriched by MG@Zn-MOFs.

Table S1. Detailed information of the observed glycopeptides in HRP tryptic digest. N# denotes the N-linked glycosylation site.

No.	Observed m/z	Glycan composition	Amino acid sequence
G1	2074	XylMan3GlcNAc2	PN#VSNIVR
G2	2290	XylMan2GlcNAc2	SILLDN#TTSFR
G3	2321	Man2GlcNAc2	MGN#ITPLTGTQGQIR
G4	2543	XylMan3FucGlcNAc2	SSPN#ATDTIPLVR
G5	2612	XylMan3GlcNAc2	MGN#ITPLTGTQGQIR
G6	2850	FucGlcNAc	GLIQSDQELFSSP N#ATDTIPLVR
G7	3048	XylMan2GlcNAc2	SFAN#STQTFFNAFVEAMDR
G8	3087	XylMan3FucGlcNAc2	GLCPLNGN#LSALVDFDLR
G9	3323	XylMan3FucGlcNAc2	QLTPTFYDNSCP N#VSNIVR
G10	3354	XylMan3FucGlcNAc2	SFAN#STQTFFNAFVEAMDR
G11	3606	XylMan3FucGlcNAc2	NQCRGLCPLNGN#LSALVDFDLR
G12	3672	XylMan3FucGlcNAc2	GLIQSDQELFSSP N#ATDTIPLVR
G13	3894	XylMan3FucGlcNAc2	LHFHDCFVNGCDASILLDN#TTSFR
G14	4057	XylMan3GlcNAc2	QLTPTFYDNSC(AAVESACPR)PN#VSNIVR-H2O
G15	4222	XylMan3FucGlcNAc2	QLTPTFYDNSC(AAVESACPR)PN#VSNIVR
G16	4839	XylMan3FucGlcNAc2, XylMan3GlcNAc2	LYN#FSNTGLPDPTLN#TTYLQTLR
G17	4984	XylMan3FucGlcNAc2, XylMan3FucGlcNAc2	LYN#FSNTGLPDPTLN#TTYLQTLR

Table S2. The S/N ratios of glycopeptides and the internal standard peptide in 10^{-6} M HRP tryptic digest without any treatment and the elution after treatment with MG@Zn-MOFs and recovery of the glycopeptides on MG@Zn-MOFs.

Entry	1			2			3		
m/z of the peptide	2020	3672	4984	2020	3672	4984	2020	3672	4984
S/N ratio in original solution	3381.6	624.3	96.9	4511	630.6	71.4	4487.5	820	214.5
S/N ratio in the elution	779.2	2370.6	345.1	2401.6	4406.8	530.2	1008.6	3256.5	825.1
Recovery / %	—	82	77	—	66	70	—	88	85
Average Value / %	78.7 (3672) / 77.3 (4984)								

Table S3. Data of three independent LC/MS runs of the identified N-glycopeptides enriched by MG@Zn-MOFs. **N#** denotes the N-linked glycosylation site.

Run. 1

No.	Sequence	MH+ [Da]	Protein Group Accessions
1	GNEANYYS N# ATTDEHGLVQFSIN # TTNVMGTSLTVR	3806.75205	P01023
2	ELHHLQE QN# VSnAFLDK	2023.97293	P00450
3	LAGKPTHV N# VSVVMAEVDGTCY	2348.12847	P01876
4	STGKPTLY N# VSLVMSDTAGTcY	2366.08525	P01871;P04220
5	QQQHLFGS N# VTDCSGNFcLFR	2516.11382	P02787
6	ITYSIVQT N# cSK	1414.68889	P01042
7	ERSWPAPGV N# cSSALR	1690.79569	P02790
8	NFLLNHSE N# ATAK	1459.71733	P00739;P00738
9	NAHGEKE N# LTAR	1469.69785	Q06033
10	DGQLLPSS N# YSNIK	1536.75408	P13591
11	KLPPGLLA N# FTLLR	1553.94219	P02750
12	AAINKWVS N# KTEGR	1574.83086	P01008
13	LNPTVTYGN N# DSFSAK	1614.76641	P05362
14	TKPREEQF N# STFR	1640.80039	P01859
15	GKEGHFY YN# ISEVK	1671.80198	P55058
16	TKPREEQY N# STYR	1672.79258	P01857
17	FEVDSPVY N# ATWSASLK	1914.91448	P04114
18	ELHHLQE QN# VSNFLDK	2022.98918	P00450
19	GFGVAIVGN N# YTAALPTEAALR	2092.11040	Q96PD5
20	LGSFEGLV N# LTFIHLQHNR	2196.15726	P51884
21	VGQLQLSH N# LSLVILVPQNLK	2314.34983	P05155
22	ELHHLQE QN# VSNFLDKGEFYIGSK	2904.41727	P00450
23	QLDMMLDS N# NSLASVPEGLWASLGQPNWDMR	3458.63596	P02750
24	VYKPSAGN N# nSLYR	1470.72173	P02749
25	TVLTPATnHMGN N# VTFTIPANR	2257.13083	P01024
26	HEEGHML N# cTcFGQGR	1933.77536	P02751
27	VLYLAAY N# cTLRPVSK	1868.99503	Q9UGM5
28	YPHKPEIN N# STTHPGADLQENFcR	2712.25284	P00734
29	HIPGLIH N# MTAR	1360.71531	Q16610
30	LPPGLLA N# FTLLR	1425.84819	P02750
31	PVTPIAQN N# QTTLGSSR	1670.87383	Q9NZP8
32	FVGTPEV N# QTTLYQR	1753.87773	P01033
33	FSDGLES N# SSTQFEVK	1775.79936	P0C0L5
34	IDGSQNF N# ETWENYK	1845.79509	Q9Y5C1
35	KQVHFFV N# ASDVDNVK	1847.93003	Q96IY4
36	FSDGLES N# SSTQFEVK	1903.89347	P0C0L5
37	KLHINHN N# LTESVGPLPK	2012.09416	P51884
38	VTQVYAE N# GTVLQGSTVASVYK	2315.19219	P27169
39	KLHINHn N# LTESVGPLPK	2013.07363	P51884
40	HGIQYFn N# NTQHSSLFMLNEVK	2623.22843	P01042
41	LYLGSN N# LTALHPALFQ N# LSK	2316.23760	P22792
42	SLPNFP N# TSATAnATGGR	1777.83708	Q6UXB8
43	AALAAFnAQn N# GSNFQLEEISR	2368.09868	P02765

44	DIVEYYN#DSnGSHVLQGR	2067.93071	P25311
45	QLAHQSNN#STNIFFSPVSIATAFAMILSLGTK	3198.61704	P01009
46	GLTFQQN#ASSmcVPDQDTAIR	2356.05986	P01871
47	QVFPGLnYcTSGAYSNN#ASSTDASYYPLTGDR	3552.55954	P04114
48	HPFTGDNN#cTIK	1290.58147	Q13201
49	SWPAVGNN#cCSSALR	1405.65508	P02790
50	SEGSSVN#LSPPLEQcVPDR	2071.97075	P00734
51	ALPQPQN#VTSLLGcTH	1736.86455	P02790
52	GLTFQQN#ASSMcVPDQDTAIR	2340.06352	P01871
53	LSDL SIN#STEcLHVHcR	2041.94547	P05156
54	TQAALSNN#LTccIDR	1623.74797	Q13201
55	LQNNENN#IScVER	1590.72014	Q03591
56	AFGSNPNN#LTK	1049.52654	P22792
57	EVFVHPN#YSK	1220.59429	P04070
58	DKMFSQN#DTR	1242.54216	P02750
59	YLYLASNN#HSNK	1310.63660	Q16853
60	VYSGILNN#QSEIK	1351.71099	P03951
61	DFYVDEN#TTVR	1359.60674	P29622
62	KANQQLNN#FTEAK	1392.71306	Q9Y5Y7
63	PREEQFN#STFR	1411.65959	P01859
64	PREEQFN#STYR	1427.65445	P01861
65	IYSGILNN#LSDITK	1437.78435	P03952
66	PREEQYN#STYR	1443.64787	P01857
67	YAEDKFN#ETTEK	1475.65459	P43652
68	EGHFYYN#ISEVK	1486.68535	P55058
69	FVEGSHN#STVSLTTK	1607.79057	P04114
70	QVHFFVN#ASDVNDNVK	1719.83733	Q96IY4
71	LHINHN#LTESVGPLPK	1883.99814	P51884
72	EHEAQSN#ASLDVFLGHTNVEELMK	2699.26682	P00736
73	QLAHQSNN#STNIFFSPVSIATAFAMILSLGTK	3182.62758	P01009
74	KYNSQN#QSnNQFVLYR	2004.94499	P01042
75	LYLGSnN#LTALHPALFQN#LSKLELLSLSK	2317.20865	P22792
76	LYLGSnN#LTALHPALFQN#LSKLELLSLSK	3200.76523	P22792
77	LQNNEEnN#IScVER	1591.70122	Q03591
78	MVSHHN#LTTGATLINEQWLTTAKNLFLN#HSEN#ATAK	4122.06411	P00739;P00738
79	ADGTVnQIEGEATPVN#LTEPAK	2256.09233	P05090
80	ADGTVnQIEGEATPVN#LTEPAKLEVK	2725.37931	P05090
81	MVSHHN#LTTGATLInEQWLTTAK	2681.37595	P00739;P00738
82	GAFISN#FSmTVDGK	1490.68413	P19823
83	MDGASN#VTcINSR	1425.61113	P08603
84	WDPEVN#cSMAQIQLcPPPPQIPNSHNN#MTTTLNYR	4011.81533	P08603
85	SLGNVN#FTVSAEALESQELcGTEVPSVPEHGR	3414.62033	P01023
86	SLGNVN#FTVSAEALESQELcGTEVPSVPEHGRK	3542.71377	P01023
87	HYLVSNN#ISHDTVLQcHFTcSGK	2604.20560	P13598
88	LETTVN#YTDSQRPIcLPSK	2223.10086	P03951
89	LQAPLN#YTEFQKPIcLPSK	2248.17002	P03952
90	LETTVN#YTDSQRPIcLPSKGDR	2551.25095	P03951
91	KFVQGN#STEVAcHPGYGLPK	2190.06289	Q02985
92	TPLTA NN#ITK	959.54106	P01877
93	WSDIWN#ATK	1121.52690	P06276
94	EVLSSNN#VSWR	1177.58574	Q8IZF2

95	DIENFN#STQK	1196.54289	P43652
96	APGWAN#SSAGSGR	1218.54924	Q86VB7
97	LHEITN#ETFR	1260.62125	Q6EMK4
98	LVPHMN#VSAVEK	1324.69287	Q96KN2
99	SPDVIN#GSPISQK	1342.68303	P08603
100	ALGFEN#ATQALGR	1348.68633	Q08380
101	LNAENN#ATFYFK	1432.67314	P01042
102	GAFISN#FSMTVDGK	1474.68926	P19823
103	AEPPLN#ASASDQGEK	1514.69988	Q9Y4L1
104	SLEAIN#GSGLQMGLQR	1674.84929	P09172
105	VVLHPN#YSQVDIGLIK	1795.99614	P00738
106	KYNSQN#QSNNQFVLYR	2003.95635	P01042
107	VVLHPN#YSQVDIGLIK	2037.17531	P00738
108	FSYSKN#ETYQLFLSYSSK	2193.03989	P02748
109	KEGYSN#ISYIVVNHQGISSR	2252.13132	P49908
110	IVGGTN#SSWGEWPWQVSLQVK	2359.18169	P03952
111	KAFITN#FSMIIDGMTYPGIKEK	2361.22373	Q14624
112	KAFITN#FSMIIDGMTYPGIKEK	2618.35830	Q14624
113	MVSHHN#LTTGATLINEQWLTTAK	2680.37674	P00739;P00738
114	GNEAnYYSN#ATTDEHGLVQFSIN#TTNVMGTSLTVR	3807.75112	P01023
115	YGNPN#ETQN#N#STSWPVFK	2085.90630	P06276
116	SHLQN#YTVN#ATK	1377.66538	P40189
117	NLFLN#HSEN#ATAK	1460.70171	P00739;P00738
118	ANLTnFPEN#GTFVVNIAQLSQDDSGR	2809.34331	P01833
119	NLFLN#HSEN#ATAKDIAPTLTLYVGKK	2860.51211	P00739;P00738
120	LNAEnN#ATFYFK	1433.65727	P01042
121	EEQFN#STFRVSVLTVVHQDWLnGK	2934.47202	P01859
122	EEQYN#STYRVVSVLTVLHQDWLnGK	2980.47123	P01857
123	EEQYN#STYRVVSVLTVLHQDWLnGKEYK	3400.67568	P01857
124	EPGSN#VTmSVDAEcVPMVR	2094.91582	Q08380
125	ISEEN#ETTcYMGK	1562.63530	P08603
126	VIDFN#cTTSSVSSALANTK	2015.95879	P04196
127	LTIHN#ITPGDAGEYVcK	1888.90866	Q8IZF2
128	AELSН#HTRPVILVPGcLGNQLEAK	2617.37612	P04180
129	EPGSN#VTMSVDAEcVPMVR	2078.91948	Q08380
130	SPYYN#VSDEISFHcYDGYTLR	2587.10978	P00751
131	YLPVN#SSLNTSDcSER	1841.85869	Q9Y6R7
132	AFHYN#VSSHGcQLLPWTQHSPHTR	2861.33706	P26927
133	GVNFN#VSK	865.44127	P03952
134	DTFVN#ASR	910.42638	P05155
135	EDALN#ETR	948.42772	P10909
136	VQPFN#VTQGK	1118.58354	P13473
137	ETFFN#LSKR	1142.58295	Q9UK55
138	EEQFN#STFR	1158.50640	P01859
139	EEQFN#STYR	1174.50151	P01861
140	EEQYN#STFR	1174.50151	P01860
141	EEQYN#STYR	1190.49687	P01857
142	TMFPN#LTDVVR	1194.58281	P06681
143	DEKLН#QSNFQK	1351.65032	Q13201
144	VSLTN#VSISDEGR	1377.68730	Q9BY67
145	FQLLN#FSSSELK	1413.72478	Q9BY67

146	QGGVN#ATQVLIQHLR	1634.90091	Q13790
147	YKGLN#LTEDTYKPR	1698.87082	Q08380
148	EGYSN#ISYIVVNHQGISSR	2124.03165	P49908
149	SLTFN#ETYQDISELVYGAK	2179.04514	P01008
150	AFITN#FSMIIDGMTYPGIIK	2233.12882	Q14624
151	GLKFN#LTETSEAEIHQSFAQHLLR	2699.38076	P01011
152	EAFSN#FSSSTLTEVQAISTHGGSGDK	2757.29001	P07307
153	LPTQN#ITFQTESSVAEQEAFQSPK	2810.33933	Q14624
154	YNQN#FSAGnnENImEAHVGINGEANLDFLNIPLETIPEmR	4395.04116	P04114
155	LHInHNN#LTESVGPLPK	1884.98197	P51884
156	SLGnVN#FTVSAEALESQELcGTEVPSVPEHGR	3415.61496	P01023
157	SLGnVN#FTVSAEALESQELcGTEVPSVPEHGRK	3543.69838	P01023
158	VLSN#nSDANLEINTWVAK	2103.06108	P05155
159	AFEN#VTDLQWLILDHNLLEnSK	2614.30478	P51884
160	SKWN#ITMESYVVHTnYDEYAIFLTk	3054.45766	P02760
161	THTN#ISESHPN#ATFSAVGEASIcEDDWNSGER	3520.49009	P01871
162	THTN#ISESHPN#ATFSAVGEASIcEDDWDSGER	3521.48574	P04220
163	YFYN#GTSmAeETFYQYGGcMGNGNNFVTEK	3364.34104	P02760
164	YDFN#SSmLYSTAK	1543.66289	P04114
165	YTGN#ASALFILPDQDKmEEVEAMLLPETLK	3383.66965	P01011
166	EWDN#TTTEcR	1312.51128	P20851
167	FLNN#GTcTAEGK	1312.58354	P05156
168	GTAN#TTTAGVPcQR	1434.66496	P26927
169	AHln#VSGIPcSVLLADVEDLIQQQISN#DTVSPR	3590.81321	Q96IY4
170	TLLN#ASR	775.43157	P01880
171	DFVN#ASSK	868.40624	P05546
172	WQMN#FTVR	1082.50859	P13473
173	VPGN#VTAVLGETLK	1398.78435	P01833
174	QDFN#ITDISLLEHR	1701.84610	P07911
175	YLGN#ATAIFFLPDEGK	1756.88030	P01009
176	DFVN#ASSKYEITTIHNLFR	2256.12851	P05546
177	IYSN#HSALESLALIPLQAPLK	2279.26572	P55058
178	VTQN#LTLIEESLTSEFIHDIDR	2574.29459	P36955
179	YTGN#ASALFILPDQDKMEEVEAMLLPETLK	3367.67246	P01011
180	YTGN#ASALFILPDQDKMEEVEAMLLPETLKR	3523.77212	P01011
181	YLGN#ATAIFFLPDEGKLQHLENELTHDIITK	3541.82631	P01009
182	LQN#LTLPTN#ASIK	1414.77983	Q13201
183	GVnFN#VSK	866.42497	P03952
184	FLnnGTcTAEGK	1313.56719	P05156
185	YKN#nSDISSTR	1286.58806	P01871
186	MLN#TSSLLEQLNEQFnWVSR	2411.15549	P10909
187	TLN#QSSDELQLSMGnAMFVK	2215.04459	P01011
188	GLN#VTLSSTGRnGFK	1552.79717	P0C0L5
189	LGN#WSAmPScK	1267.54570	P02749
190	TLN#QSSDELQLSmGNAMFVK	2230.03690	P01011
191	VSN#VScQASVSR	1294.60539	P55058
192	HSN#cTHQQDAGVTcSDGSNLEMR	2605.04580	Q86VB7
193	ISN#SSDTVEcEcSENWK	2045.80962	O75882
194	LGN#WSAMPScK	1251.55058	P02749
195	VLN#FTTK	823.45653	P13671
196	NIN#YTER	910.42546	P80108

197	TWN#QSIALR	1089.56865	P12259
198	GLN#VTLSSTGR	1105.58513	P0C0L5
199	HAN#WTLTPLK	1181.63152	P27169
200	YKN#NSDISSTR	1285.60114	P01871
201	LFN#VTPQDEQK	1319.64775	O75144
202	VVN#STTGPGEHLR	1367.69255	P07996
203	FLN#DTMAVYEAK	1402.65959	P29622
204	GLN#LTEDTYKPR	1407.71196	Q08380
205	VQN#MSQSIEVLDR	1519.74346	Q99784
206	AFN#STLPTMAQMEK	1569.72978	P16070
207	LAN#LTQGEDQYYLR	1684.81767	P10909
208	QIN#SSISGNLWDKDQR	1861.90812	Q01459
209	AVN#ITSENLIDDVVSLIR	1972.06133	P02748
210	VSN#QTLSLFFTQLQDVPVR	2164.16802	P01023
211	TLN#QSSDELQLSMGNAMFVK	2214.04619	P01011
212	APDKNVIFSPLSISTALAFSLGAH#TTLTEILK	3583.96303	P01011
213	IVLDPSGSMMIYLVLGDGSDSIGAS#FTGAK	3042.50260	P00751
214	RNPPMGGNVVIFDTVTINQEEPYQN#HSGR	3270.56870	P02745
215	NPPMGGNVVIFDTVTINQEEPYQN#HSGR	3114.46360	P02745
216	PYTFHSHGITYYKEHEGAIYPD#TTDFQR	3488.57973	P00450
217	GVTVSQIFHSPDLAIRDTFVN#ASR	2718.38852	P05155
218	AVLQLNEEGVDTAGSTGVTL#LTSKPIILR	3110.69162	P08185
219	QN#ESHN#FSGDIALLELQHSIPLGPNVLPVcLPDN#ETLYR	4403.17837	Q9NZP8
220	LnAEn#ATFYFK	1434.64202	P01042
221	FN#SSYLQGTnQITGR	1687.79363	P04114
222	GN#ESALWDcK	1180.49407	Q86VB7
223	YN#WSFIHcPAcQcnGHSK	2267.90238	O75882
224	WN#NTGcQALPSQDEGPSK	1989.86443	P01833
225	RN#HScEPcQTLAVR	1728.79067	P00748
226	QnQcFYN#SSYLNQVR	1922.83562	P19652
227	QN#ESHNFSGDIALLELQHSIPLGPNVLPVcLPDN#ETLYR	4402.17006	Q9NZP8
228	SN#SSMHITDcR	1308.53008	P07998
229	YN#FSFR	834.37755	P01031
230	EN#ETEIIK	976.48363	P06276
231	AN#LTVVLLR	999.61974	P05362
232	FN#DTEVQLR	1122.54338	P43251
233	EN#ISDPTSPRL	1229.60100	P01591
234	DN#YTDLVAIQNK	1394.67803	P14151
235	GN#ETLHYETFGK	1396.63835	P13598
236	DN#YTKAEEILSR	1439.70142	P06276
237	EN#TSDPSLVIAGFR	1506.74358	P11279
238	EN#LTAPGSDSAVFFEQGTTR	2127.98418	P00450
239	KN#QSVNVFLGHTAIDEMLK	2145.10105	Q9NZP8
240	FN#LTETSEAEIHQSFBHLLR	2401.18174	P01011
241	AN#LSSQALQMSLDYGFVTPLSMSIR	2831.40049	P19827
242	LVLsseKTVLTPATNHMGN#VTFTIPANR	3012.58884	P01024
243	RNPPMGGNVVIFDTVTInQEEPYQN#HSGR	3271.53579	P02745
244	TALQHLHGVPQGALLEDnREQEeEIISFAETGLSTIN#QTR	4478.22182	P55103
245	LSLHRPALEDLLLGEAN#LTcTLTGLR	2964.58976	P01876;P01877
246	ALGISPFHEHAEVVFTA#DSGPR	2452.21140	P02766
247	GETHEQVHSILHFKDFV#ASSK	2511.22695	P05546

248	MPSQAPTGNFYPQPLLN#SSMcLEDSR	2941.32236	O75882
249	VDKDLQSLEDILHQVEnKTSEVK	2668.36880	P02679
250	WNVNAPPTFHSEMMYDN#FTLVPVWGK	3081.43137	P43251
251	VLTNLNDQVFQHAGN#YScVASNVQGK	2978.43399	P07333
252	DVQIIVFPEDGIHGFn#FTR	2205.09555	P43251
253	ADGTVNQIEGEATPVN#LTEPAK	2255.10478	P05090
254	MAWPEDHVFISTPSFN#YTGR	2356.07389	P04180
255	ADGTVNQIEGEATPVN#LTEPAKLEVK	2724.39750	P05090
256	FQSPAGTEALFELHN#ISVADSANYScVYVDLKPPFGGSAPSER	4629.20717	P04217
257	VTVQSLLTVETLEHN#QTYEcR	2521.22678	P07333
258	FHDVSESTHWTPFLN#ASVHYIR	2644.25893	P80108
259	SVQEIQATFFYFTPn#KTEDTIFLR	2896.44248	P02763;P19652
260	LSHNELADSGIPGnSFN#VSSLVELDLSYNK	3221.56601	P51884
261	TLYETEVFSTDFSN#ISAAK	2124.00345	P05543
262	HGVIIISSTVDTYE#GSSVEYR	2314.07737	P05160
263	YKVDYESQSTDQTQN#FSSESKR	2500.12552	P17936
264	ADTHDEILEGLNFN#LTEIPEAQIHEGFQELLR	3692.82290	P01009
265	VSEHIPVYQQEEN#QTDVWTLLnGSK	2916.39328	P49908
266	LSVDKDQYVEPEN#VTIQcDSGYGVVGPQSITcSGNR	3972.83457	P04003
267	PALEDLLLGEAN#LTcTcTLTGLR	2358.22391	P01876;P01877
268	LQAILGVPWKDKN#cTSR	1987.04496	P01019
269	LGTSLSSGHVLMN#GTLK	1715.90312	P80108
270	VNQNLVYESGSLN#FSK	1799.88127	P04114
271	AAPAPQEATATTFN#STADR	1819.84648	P13598
272	IYPGVDFGGEELN#VTFVK	1984.99382	P03952
273	GPSTPLPEDPNW#VTEFHTTPK	2465.16062	P15144
274	QLVEIEKVVLHPN#YSQVDIGLIK	2635.47031	P00738
275	QLVEIEKVVLHPN#YSQVDIGLIK	2876.64760	P00738
276	LYHFLLGAWSLN#ATELDPcPLSPELLGLTK	3369.74558	Q96PD5
277	ILRQQQHILFGSN#VTDCSGNFcLFR	2898.37368	P02787
278	VYIHPFHLVIHN#ESTcEQLAK	2536.26528	P01019
279	FNPGAESVVLSN#STLK	1663.85881	Q13201
280	SVVAPATDGGLN#LTSTFLR	1920.00858	P41222
281	AYLLPAPPAPGN#ASESEEDR	2084.97783	P17936
282	TVLTPATNHMGN#VTFTIPANR	2256.15117	P01024
283	TDNSLLDQALQN#DTVFLNMR	2309.10624	O75144
284	GFLALYQTAVAVN#YSQPISEASR	2415.22661	Q9NZP8
285	TVLTPATNHMGN#VTFTIPANREFK	2660.34958	P01024
286	YQFNTNVVFSnN#GTLVDR	2089.98149	P43251
287	IADAHLDRVEN#TTVYYLVLDVQESDcSVLSR	3581.74404	P04196
288	QSVPAHFVALN#GSK	1455.76018	P06681
289	DASSFLAEWQN#ITK	1610.77092	P08195
290	ESWGQESNAGN#QTVVR	1762.79912	Q9NY97
291	AALAAFAFNQNN#GSNFQLEEISR	2366.14231	P02765
292	SRYPHKPEIN#STTHPGADLQENFcR	2955.38541	P00734
293	VASVININPn#TTHSTGScR	2028.97893	P13473
294	AQLLQGLGFN#LTER	1560.83843	P08185
295	KNAHGEKEEN#LTAR	1597.79404	Q06033
296	TVIRPFYLTN#SSGVD	1669.84453	Q08380
297	SMVDFMNTD#FTSHR	1802.74729	Q99784
298	EHEGAIYPDN#TTDFQR	1893.82817	P00450

299	DFEDLYTPV N #GSIVIVR	1937.97527	P02786
300	DIVEYYNDS N #GSHVLQGR	2066.94292	P25311
301	NPVGLIGAE N #ATGETDPSHSK	2094.99834	P43251
302	SHAASDAPE N #LTLLAETADAR	2154.03147	Q9ULI3
303	SQILEGLGF N #LTELSESDVHR	2345.16435	P29622
304	DTEENLHVLN N #QTLAEVLFPMDNK	2671.29380	Q13201
305	LFGDKSLTF N #ETYQDISELVYGA	2739.34293	P01008
306	nAHGEEKE N #LTAR	1470.68470	Q06033
307	N #GTGHGN N #STHGHPPEYMR	1853.76518	P02790
308	nLFL N #HSEN N #ATAK	1461.68645	P00739;P00738
309	nEEYN N #KSVQEIQATFFYFTP N #KTEDTIFLR	3675.75771	P02763;P19652
310	nN N #ATVHEQVGGPSLSDLQAQS	2383.14054	P04004
311	N #MTFDLPSDATVVLnR	1794.85698	P11279
312	N #LSmPLLPADFHk	1499.75608	P05546
313	N #HScEPcQTLAVR	1572.68791	P00748
314	N #IScVER	878.40373	Q9BXR6
315	N #HScSEGQISIFR	1535.69162	O75882
316	N #TTcQDLQIEVTVK	1649.80510	P0C0L5
317	N #LTTSLTESVDR	1336.65935	P80108
318	N #LSMPPLLADFHk	1483.76177	P05546
319	N #SSGPDLSSLWLFYR	1679.78080	Q9ULI3
320	HEEGHmLN N #cTcFGQGR	1949.76999	P02751
321	RNPPmGGNVVIFDTVTINQEEPYQN N #HSGR	3286.55190	P02745
322	NPPmGGNVVIFDTVTINQEEPYQN N #HSGR	3130.45676	P02745
323	TVLTPATNHmGN N #VTFTIPANR	2272.13944	P01024
324	mVSHHN N #LTTGATLINEQWLTTAKNLFL N #HSEN N #ATAK	4138.06801	P00739;P00738
325	mDGAS N #VtCINSR	1441.60661	P08603
326	mVSHHN N #LTTGATLINEQWLTTAK	2696.37467	P00739;P00738
327	mKVSN N #VScQASVSR	1569.73638	P55058
328	mFSQN N #DTR	1015.41442	P02750
329	mLN N #TSSLLEQLNEQFNWVSR	2426.16739	P10909
330	SDHGSSIScQPPAEIPGYLPADTVHLAVEFF N #LTHLPANLLQGASK	4900.42788	P02750
331	GGNSNGALcHFDPFLYNNhN N #YTDctSEGR	3204.31435	P02751
332	SHEIWTHScPQSPGN N #GTDASH	2305.95389	P04278
333	VYLQGLIDcYLFG N #SSTVLEDSK	2622.26738	P35542
334	DTAVFEcLPQHAMFG N #DTITcTTHGN N #WTK	3354.45278	P02749
335	DTAVFEcLPQHAMFG N #DTITcTTHGNWTKLPeC	4008.76352	P02749
336	TFSSMTcASGAN N #VSEQLSLK	2118.96782	P20742
337	DTAVFEcLPQHAMFGNDTITcTTHGN N #WTK	3353.44040	P02749
338	DAGVVcT N #ETR	1222.53862	Q08380
339	ELPGVc N #ETMMALWEEcKPeLK	2696.18973	P10909
340	KEHETcLAPELYNGN N #YSTTQK	2484.13418	P05160
341	LTDTIcGVGnMSAN N #ASDQER	2140.91557	P06681
342	KTLFc N #ASKEWDN N #TTTeC	2363.02842	P20851
343	EHETcLAPELYNGN N #YSTTQK	2356.04020	P05160
344	AATcINPLN N #GSVcERPAN N #HSAK	2369.10019	O75882
345	QDQcIYN N #TTYLNQREN N #GTISR	2675.25290	P02763
346	QDQcIYN N #TTYLNvQR	1917.88140	P02763
347	MEAcML N #GTVIGPGK	1578.73064	P04275
348	QDQcIYN N #TTYLNvQR	1916.88249	P02763
349	QNQcFY N #SSYLNvQR	1921.85149	P19652

350	TLFc n ASKEWDN#TTTEcR	2234.93755	P20851
351	LGAcN#DTLQLM e VFK	1883.88335	P01008
352	TLFcN#ASK	941.43950	P20851
353	WEYcN#LTR	1142.49809	Q16609
354	LGAcN#DTLQLMEVFKFDTISEK	2688.29294	P01008
355	DKIcDLLVANNHFAHFAPQN#LTNmNK	3189.52773	P19827
356	LGHcPDPVLVNGEFSSGPVN#VSDK	2612.23551	P20851
357	DKIcDLLVANNHFAHFAPQN#LTNMNK	3173.53115	P19827
358	WNPcLEPHRFN#DTEVLQR	2312.08628	P43251
359	VTAcHSSQP N #ATLYK	1677.79131	P05543
360	KTTcNPcPLGYKEEN#NTGEccGR	2746.14347	P04275
361	SScGKEN#TSDPSLVIAFGR	2025.95670	P11279
362	GIcN#SSDVR	1008.44078	O75882
363	IPcSQPPQIEHTIN#SSR	2021.97624	P08603
364	DQcIVDDITYNVN#DTFHK	2197.97110	P02751
365	DQcIVDDITYNVN#DTFHKR	2354.06997	P02751
366	YTcEEPYYMEnGGGEYHcAGN#GSWVNEVLGPELPK	4228.74643	P09871
367	DQcIVDDITYnV N #DTFHK	2198.97612	P02751
368	VScPIMPcS N #ATVPDGECcPR	2407.98246	P07996
369	TTcNPcPLGYKEEN#NTGEccGR	2618.03830	P04275
370	KVcQDcPLLAPLN#DTR	1900.92742	P02765
371	GcVLLSYLN#ETVTVSASLESVR	2398.22441	P01023
372	VcSNDN#KTFDSScHFFATK	2265.95400	P09486
373	HcDGN#VSScGDHPSEGcFcPPDK	2619.96274	P04275
374	NcGVN#cSGDVFTALIGEIASP N PKYP N PEnSR	3528.61557	P09871
375	NcGVN#cSGDVFTALIGEIASP N PK	2684.23587	P09871
376	FcRDN#YTDLVAIQNK	1857.88298	P14151
377	KcGN#cSLTTLKDED F cK	2076.90158	P49908
378	LcDN#LSTK	951.44524	P02774
379	IcDLLVANNHFAHFAPQN#LTNMNK	2930.41054	P19827
380	GcSSSTS V LTLDDNNVVN#GSSPAIR	2549.25400	P07996
381	IcAMEGLPQKH N #FSHccSK	2304.99790	P43652
382	VcQDcPLLAPLN#DTR	1772.83183	P02765
383	SPYEMFGDEEVMcLNGN#WTEPPQcK	3019.22605	P08603;Q03591
384	FSLLGHASIScT V N#ETIGVWRPSPPTcEK	3373.63034	P04003
385	LEPVHLQLQcMSQEQLAQVAAN#ATK	2808.40628	Q96PD5
386	cATPHGDN#ASLEATFVK	1818.83733	P23142
387	cATPHGDN#ASLEATFVKR	1974.93418	P23142
388	cIQAN#YSLMENGK	1528.67790	P05090
389	cIN#QS I cEK	1152.50249	O75882
390	cGN#cSLTTLKDED F cK	1948.81914	P49908
391	cGN#cSLTTLKDED F cKR	2104.91013	P49908
392	cN#YSIR	813.35533	P00736
393	cSDGWSFDATT L DDN#GTMLFFK	2529.06352	P02790
394	cKPGYATADGN#SSGSITcLQnGWSAQPIcIN#SSEK	3761.65464	Q02985
395	cQVcGGDN#STcSPR	1598.59587	Q76LX8

Run. 2

No.	Sequence	MH+ [Da]	Protein Group Accessions
1	ELHHHLQEQN#VSnAFLDK	2023.97440	P00450
2	LAGKPTHVN#VSVVMAEVDTGTCY	2348.12967	P01876
3	STGKPTLYN#VSLVMSDTAGTCY	2366.09453	P01871;P04220
4	QQQHLFGSN#VTDcSGNFcLFR	2516.11246	P02787
5	QQQHLFGSN#VTDcSGNFcLFRSETK	2961.33559	P02787
6	ITYSIVQTN#cSK	1414.68962	P01042
7	NLFLNHSEN#ATAK	1459.71770	P00739;P00738
8	NAHGEKEEN#LTAR	1469.69803	Q06033
9	DGQLLPSSN#YSNIK	1536.75371	P13591
10	KLPPGLLAN#FTLLR	1553.94060	P02750
11	LNPTVTYGN#DSFSAK	1614.76579	P05362
12	TKPREEQFN#STFR	1640.80313	P01859
13	TKPREEQFN#STYR	1656.79776	P01861
14	TKPREEQYN#STYR	1672.79276	P01857
15	FEVDSPVYN#ATWSASLK	1914.91350	P04114
16	ELHHHLQEQN#VSNAFLDK	2022.99224	P00450
17	GFGVAIVGN#YTAALPTEAAALR	2092.11040	Q96PD5
18	VGQLQLSHN#LSLVILVPQNLK	2314.35019	P05155
19	ELHHHLQEQN#VSNAFLDKGEFYIGSK	2904.41782	P00450
20	QLDMMLDLSN#NSLASVPEGLWASLGQPWNWDMR	3458.64255	P02750
21	VYKPSAGN#nSLYR	1470.72187	P02749
22	HGIQYFNN#NTQHSSLFmLNEVK	2638.23301	P01042
23	HEEGHMLN#cTcFGQGR	1933.77666	P02751
24	VLYLAAYN#cTLRPVSK	1868.99356	Q9UGM5
25	YPHKPEIN#STTHPGADLQENFcR	2712.25284	P00734
26	HIPGLIHN#MTAR	1360.71540	Q16610
27	LPPGLLAN#FTLLR	1425.84929	P02750
28	VYKPSAGN#NSLYR	1469.73905	P02749
29	PVTPIAQN#QTTLGSSR	1670.87419	Q9NZP8
30	FVGTPEVN#QTTLYQR	1753.88152	P01033
31	FSDGLESN#SSTQFEVK	1775.79839	P0C0L5
32	IDGSQNFN#ETWENYK	1845.79546	Q9Y5C1
33	KQVHFFVN#ASDVNDNVK	1847.93743	Q96IY4
34	FSDGLESN#SSTQFEVK	1903.89273	P0C0L5
35	KLHINHN#LTESVGPLPK	2012.09416	P51884
36	VTQVYAE#GTVLQGSTVASVYK	2315.18218	P27169
37	HGIQYFNN#NTQHSSLFMLNEVKR	2778.34659	P01042
38	DIVEYYN#DSN#GSHVLQGR	2067.92539	P25311
39	QLAHQSNN#STNIFSPVSIATAFAmSLGTK	3198.61777	P01009
40	GLTFQQN#ASSMcVPDQDTAIR	2356.06182	P01871
41	HPFTGDN#cTIK	1290.58110	Q13201
42	SWPAVGN#CSSALR	1405.65471	P02790
43	GSSVILN#cSAYSEPSPK	1796.84587	Q92859
44	ALPQPQN#VTSLLGcTH	1736.86577	P02790
45	GLTFQQN#ASSMcVPDQDTAIR	2340.06743	P01871
46	TQAALSNN#LTccIDR	1623.74700	Q13201
47	LQNNENN#IScVER	1590.72014	Q03591
48	AFGSNPNN#LTK	1049.52666	P22792

49	DLLDMFIN#ASK	1154.54009	O75882
50	DSGFQMNN#QLR	1196.53679	P02787
51	EVFVHPN#YSK	1220.59453	P04070
52	DKMFSQN#DTR	1242.54228	P02750
53	YLYLASN#HSNK	1310.63587	Q16853
54	DFYVDEN#TTVR	1359.60661	P29622
55	KANQQLN#FTEAK	1392.71245	Q9Y5Y7
56	PREEQFN#STFR	1411.66069	P01859
57	IYSGILN#LSDITK	1437.78398	P03952
58	PREEQYN#STYR	1443.65007	P01857
59	YAEDKFN#ETTEK	1475.65532	P43652
60	EGHFYYN#ISEVK	1486.68462	P55058
61	FVEGSHN#STVSLTTK	1607.79155	P04114
62	QVHFFVN#ASDVVDNVK	1719.83379	Q96IY4
63	LHINHN#LTESVGPLPK	1883.99814	P51884
64	EHEAQSN#ASLDVFLGHTNVEELMK	2699.26430	P00736
65	QLAHQSNN#STNIFFSPVSIATAFAMILSLGTK	3182.61611	P01009
66	LYLGSnN#LTALHPALFQN#LSK	2317.21048	P22792
67	LQNNEnN#IScVER	1591.70146	Q03591
68	LHINHnN#LTESVGPLPK	1884.98160	P51884
69	MVSHHHN#LTTGATLINEQWLTTAKNLFLN#HSEN#ATAK	4122.06460	P00739;P00738
70	LYLGSnNLTALHPALFQN#LSK	2316.22344	P22792
71	ADGTVnQIEGEATPVN#LTEPAK	2256.09136	P05090
72	ADGTVnQIEGEATPVN#LTEPAKLEVK	2725.37876	P05090
73	GAFISN#FSmTVDGK	1490.68547	P19823
74	MDGASN#VTcInSR	1426.59477	P08603
75	MDGASN#VTcINSR	1425.60906	P08603
76	WDPEVN#cSMAQIQLcPPPPQIPNSHNN#MTTTLNYR	4011.82431	P08603
77	SLGNVN#FTVSAEALESQELcGTEVPSPVPEHGR	3414.61484	P01023
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80	LQAPLN#YTEFKQPKIcLPSK	2248.16965	P03952
81	KFVQGN#STEVAcHPGYGLPK	2190.06411	Q02985
82	TPLTA#ITK	959.54125	P01877
83	WSDIW#ATK	1121.52629	P06276
84	EVLSSN#VSWR	1177.58550	Q8IZF2
85	DIENFN#STQK	1196.54363	P43652
86	APGWAN#SSAGSGR	1218.54875	Q86VB7
87	LHEITN#ETFR	1260.62285	Q6EMK4
88	IDSTGN#VTNELR	1319.64543	O75882
89	LVPHMN#VSAVEK	1324.69223	Q96KN2
90	SPDVIN#GSPISQK	1342.68486	P08603
91	ALGFEN#ATQALGR	1348.68547	Q08380
92	LNAENN#ATFYFK	1432.67485	P01042
93	GAFISN#FSMTVDGK	1474.68816	P19823
94	AEPPLN#ASASDQGEK	1514.69805	Q9Y4L1
95	SLEAIN#GSGLQMGLQR	1674.85051	P09172
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99	KEGYSN#ISYIVVNHQGISSR	2252.13022	P49908

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103	MVSHHN#LTTGATLINEQWLTTAK	2680.37821	P00739;P00738
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115	EPGSN#VTmSVDAEcVPMVR	2094.91265	Q08380
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125	EDALN#ETR	948.42699	P10909
126	VQPFN#VTQGK	1118.58293	P13473
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131	EEQYNN#STYR	1190.49626	P01857
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133	FQLLN#FSSSELK	1413.72710	Q9BY67
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136	YNSQN#QSNNQFVLYR	1875.86394	P01042
137	TAGVN#TTDKEMEVLHLR	1914.95827	P11362
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139	SLTFN#ETYQDISELVYGAK	2179.04569	P01008
140	GLKFN#LTETSEAEIHQSFAQHLLR	2699.37954	P01011
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146	SLGnVN#FTVSAEALESQELcGTEVPSVPEHGR	3415.60947	P01023
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149	VLSN#nSDANLELINTWVAK	2103.06108	P05155
150	AFEN#VTDLQWLILDHNLLEnSK	2614.30460	P51884

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152	THTN#ISESHPN#ATFSAVGEASIcEDDWNSGER	3520.47873	P01871
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154	YFYN#GTSmAcETFYGGcMGnGNNFVTEK	3365.32138	P02760
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157	EWDN#TTTEcR	1312.51006	P20851
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161	GTAN#TTTAGVPcQR	1434.66448	P26927
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163	TLLN#ASR	775.43077	P01880
164	DFVN#ASSK	868.40471	P05546
165	VPGN#VTAVLGETLK	1398.78459	P01833
166	QDFN#ITDISLLEHR	1701.84446	P07911
167	YTGN#ASALFILPDQDK	1753.86235	P01011
168	YLGN#ATAIFFLPDEGK	1756.88017	P01009
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174	SKWN#ITMESYVVHTNYDEYAIFLTK	3053.46059	P02760
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186	VSN#VScQASVSR	1294.60588	P55058
187	HSN#cTHQQDAGVTcSDGSNLEMR	2605.05027	Q86VB7
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189	NIN#YTER	910.42577	P80108
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191	GLN#VTLSSTGR	1105.58562	P0C0L5
192	HAN#WTLTPLK	1181.63188	P27169
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199	AVN#ITSENLIDDVVSLIR	1972.06206	P02748
200	VSN#QTLSLFFTVLQDVPR	2164.16826	P01023
201	TLN#QSSDELQLSMGNAMFVK	2214.04473	P01011

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205	PYTFHSHGITYYKEHEGAIYPD N #TTDFQR	3488.58437	P00450
206	GVTVSQIFHSPDLAIRDTFV N #ASR	2718.38321	P05155
207	AVLQLNEEGVDTAGSTGVTL N #LTSKPIILR	3110.69638	P08185
208	A N#LTNFPE N #GTFVVNIAQLSQDDSGR	2809.33335	P01833
209	LnAEn N #ATFYFK	1434.64067	P01042
210	Q N#ESHNFSGDIALLELQHSIPLGPnVLPVcLPD N #ETLYR	4403.17495	Q9NZP8
211	F N#SSYLQGTnQITGR	1687.79387	P04114
212	G N#ESALWDcK	1180.49468	Q86VB7
213	Y N#WSFIHcPAcQcnGHSK	2267.90183	O75882
214	H N#STGcLR	945.42058	P10909
215	W N#NTGcQALPSQDEGPK	1989.86357	P01833
216	T N#STFVQALVEHVKEEcDR	2263.06948	P07602
217	S N#SSMHITDcR	1308.52983	P07998
218	Y N#FSFR	834.37810	P01031
219	D N#NSIITR	933.46410	P06276
220	E N#ETEIIK	976.48338	P06276
221	F N#DTEVLQR	1122.54350	P43251
222	E N#ISDPTSPRL	1229.60100	P01591
223	D N#YTDLVAIQNK	1394.68071	P14151
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234	RNPPMGGNVVIFDTVTInQEEPYQN#HSGR	3271.54580	P02745
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236	ALGISPFHAEVVFTA N #DSGPR	2452.20957	P02766
237	VDKDLQSLEDILHQVN#KTSEVK	2668.36880	P02679
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239	GGETAQSA DPQWEQLNKN N #LSMPLLPADFHk	3438.62929	P05546
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245	VTVQSLLT VETLEH N #QTYEcR	2521.22550	P07333
246	FHDVSESTHWTPFL N #ASVHYIR	2644.25429	P80108
247	SVQEIQATFFYFTP N #KTEDTIFLR	2896.44394	P02763;P19652
248	LSHNE LADSGIPGnSF N #VSSLVELDLSYNK	3221.57370	P51884
249	IAVQFGPGFWSIAN#FTK	1883.96990	P13473
250	IQMLSFAGEPLPQ N #SSMAR	2078.00200	Q16853
251	TLYETEVFSTD FS N #ISA AK	2124.01518	P05543
252	HGVII S TVDTYE N #GSSVEYR	2314.07956	P05160

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256	PALEDLLGSEA N#LTcTLTGLR	2358.22501	P01876;P01877
257	LQAILGVPWKDKN#cTSR	1987.04386	P01019
258	LGTSLSSGHVLMN#GTLK	1715.90055	P80108
259	VNQNLVYESGSLN#FSK	1799.88249	P04114
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261	VVAEGFDFANGIN#ISPDK	1950.94707	P27169
262	IYPGVDFGGEELN#VTFVK	1984.99297	P03952
263	AAPAPQEATATFN#STADREDGHR	2414.09854	P13598
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265	QLVEIEKVVLHPN#YSQVDIGLIK	2635.46958	P00738
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267	TVLTPATNHMGN#VTFTIPAnR	2257.13102	P01024
268	ILRQQQHILFGSN#VTDCSGnFcLFR	2899.37832	P02787
269	VYIHPFHLVIHN#ESTcEQLAK	2536.26468	P01019
270	FNPGAESVVLSN#STLK	1663.85820	Q13201
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277	IADAHLDRVEN#TTVYYLVLDVQESDcSVLSR	3581.75258	P04196
278	QSVPAHFVALN#GSK	1455.76079	P06681
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293	SQILEGLGFN#LTELSESDEVH	2345.16362	P29622
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354	DQcIVDDITYNVN#DTFHK	2197.97466	P02751

355	DQcIVDDITYNV N #DTFHKR	2354.07241	P02751
356	TTcNPcPLGYKEE N #NTGEccGR	2618.04288	P04275
357	KVcQDcPLLAPLN N #DTR	1900.92668	P02765
358	GcVLLSYLN N #ETVTVSASLESVR	2398.21726	P01023
359	IcDLLVAnNHFAHFFAPQN N #LTNMNK	2931.38980	P19827
360	VcSNDN N #KTFDSScHFFATK	2265.95359	P09486
361	NcGV N #cSGDVFTALIGEIASPNYPKPYPeSR	3528.59145	P09871
362	NcGV N #cSGDVFTALIGEIASPNYPK	2684.23532	P09871
363	FcRDnYTDLVAIQNK	1857.87723	P14151
364	KcGN N #cSLTTLKDEDFcK	2076.90360	P49908
365	LcDN N #LSTK	951.44628	P02774
366	IcDLLVANNHFAHFFAPQN N #LTNMNK	2930.40470	P19827
367	GcSSSTSVLTLDDNNVV N #GSSPAIR	2549.24887	P07996
368	IcAMEGLPQKH N #FSHccSK	2304.99753	P43652
369	NcQDIDEcVTGIH N #cSIN#ETcFNIQGGFR	3460.43222	P23142
370	VcQDcPLLAPlN N #DTR	1772.83220	P02765
371	SPYEMFGDEEVMcLNGN N #WTEPPQcK	3019.22916	P08603;Q03591
372	GLQPTLTNPGEcRPN N #FTcAcR	2450.10276	P04275
373	FSLLGHASIScTVEN N #ETIGVWRPSPPtCek	3373.62851	P04003
374	LEPVHLQLQcMSQEQLAQVAAN N #ATK	2808.40335	Q96PD5
375	cATPHGDN N #ASLEATFVK	1818.83476	P23142
376	cATPHGDN N #ASLEATFVKR	1974.93509	P23142
377	cIQAN N #YSLMEnGK	1529.66228	P05090
378	cIQAN N #YSLMEnGKIK	1770.84099	P05090
379	cIN N #QSICek	1152.50249	O75882
380	cGN N #cSLTTLKDEDFcK	1948.80979	P49908
381	cGN N #cSLTTLKDEDFcKR	2104.90848	P49908
382	cN N #YSIR	813.35625	P00736
383	cSDGWSFDATTLDNN N #GTMLFFK	2529.06304	P02790
384	cKPGYATADGN N #SSGSITcLQnGWSAQPIcIN N #SSEK	3761.64035	Q02985
385	cQVcGGD N #STcSPR	1598.60503	Q76LX8

Run. 3

No.	Sequence	MH+ [Da]	Protein Group Accessions
1	LGSFEGLV N #LTFIHLQHnR	2197.15957	P51884
2	ELHHLQEQN N #VSnAFLDK	2023.97202	P00450
3	ELHHLQEQN N #VSnAFLDKGEFYIGSK	2905.40934	P00450
4	LAGKPTHVN N #VSVVMAEVDTGTCY	2348.13041	P01876
5	STGKPTLYN N #VSLVMSDTAGTCY	2366.09111	P01871;P04220
6	QQQHLFGSN N #VTDCSGnFcLFRSETK	2962.32558	P02787
7	QQQHLFGSN N #VTDCSGNFcLFR	2516.11211	P02787
8	ITYSIVQT N #cSK	1414.68962	P01042
9	NLFLNHSEN N #ATAK	1459.71770	P00739;P00738
10	NAHGEKEEN N #LTAR	1469.69780	Q06033
11	DGQLLPSSN N #YSNIK	1536.75517	P13591
12	KLPPGLLAN N #FTLLR	1553.94219	P02750
13	LNPTVTYGN N #DSFSAK	1614.76702	P05362
14	TKPREEQFN N #STFR	1640.80277	P01859
15	TKPREEQYN N #STYR	1672.79294	P01857
16	FEVDSPVY N #ATWSASLK	1914.91411	P04114

17	ELHHLQEQN#VSNAFLDK	2022.99407	P00450
18	GFGVAIVGN#YTAALPTEAALR	2092.11089	Q96PD5
19	LGSFEGLVN#LTFIHLQHNR	2196.15763	P51884
20	VGQLQLSHN#LSLVILVPQNLK	2314.34928	P05155
21	ELHHLQEQN#VSNAFLDKGEFYIGSK	2904.42093	P00450
22	VYKPSAGN#nSLYR	1470.72251	P02749
23	HIPGLIHN#mTAR	1376.71112	Q16610
24	HEEGHMLN#cTcFGQGR	1933.78142	P02751
25	VLYLAAYN#cTLRPVSK	1868.99540	Q9UGM5
26	YPHKPEIN#STTHPGADLQENFcR	2712.24973	P00734
27	HIPGLIHN#MTAR	1360.71521	Q16610
28	LPPGLLAN#FTLLR	1425.84697	P02750
29	PVPTIAQN#QTTLGSSR	1670.87395	Q9NZP8
30	FVGTPEVN#QTTLYQR	1753.87724	P01033
31	FSDGLESN#SSTQFEVK	1775.79888	P0C0L5
32	KQVHFFVN#ASDVDNVK	1847.92929	Q96IY4
33	FSDGLESN#SSTQFEVK	1903.89470	P0C0L5
34	KLHINHN#LTESVGPLPK	2012.09612	P51884
35	VTQVVAE#GTVLQGSTVASVYK	2315.18413	P27169
36	VTQVVAE#GTVLQGSTVASVYKGK	2500.29489	P27169
37	HGIQYFn#NTQHSSLFMLNEVK	2623.22898	P01042
38	SLPNFPN#TSATA#ATGGR	1777.84368	Q6UXB8
39	DIVEYYN#DSN#GSHVLQGR	2067.92339	P25311
40	GLTFQQN#ASSMcVPDQDTAIR	2356.05742	P01871
41	QVFPGlnYcTSGAYSN#ASSTDASYYPLTGDTR	3552.56577	P04114
42	HPFTGDN#cTIK	1290.58269	Q13201
43	SWPAVGN#cSSALR	1405.65544	P02790
44	GSSVILN#cSAYSEPSPK	1796.84636	Q92859
45	ALPQPQN#VTSLLGcTH	1736.86687	P02790
46	GLTFQQN#ASSMcVPDQDTAIR	2340.06108	P01871
47	LSDSLNS#STEcLHVHcR	2041.94455	P05156
48	TQAALS#LTccIDR	1623.74822	Q13201
49	LQNNENN#IScVER	1590.71831	Q03591
50	AFGSNP#LTK	1049.52654	P22792
51	GSLSYLN#VTR	1110.57878	P07339
52	DLLDMFIN#ASK	1154.54033	O75882
53	EVFVHPN#YSK	1220.59502	P04070
54	DKMFSQN#DTR	1242.54167	P02750
55	YLYLASN#HSNK	1310.63733	Q16853
56	VYSGILN#QSEIK	1351.70952	P03951
57	DFYVDEN#TTVR	1359.60600	P29622
58	KANQQLN#FTEAK	1392.71318	Q9Y5Y7
59	PREEQFN#STFR	1411.66081	P01859
60	IYSGILN#LSDITK	1437.78411	P03952
61	PREEQN#STYR	1443.65027	P01857
62	YAEDKF#ETTEK	1475.65312	P43652
63	EGHFYYN#ISEVK	1486.68682	P55058
64	FVEGSHN#STVSLTTK	1607.79204	P04114
65	QVHFFVN#ASDVDNVK	1719.83415	Q96IY4
66	LHINHN#LTESVGPLPK	1883.99919	P51884
67	EHEAQSN#ASLDVFLGHTNVEELMK	2699.26352	P00736
68	LYLGSSnnLTALHPALFQN#LSK	2317.21067	P22792
69	LQNNEnN#IScVER	1591.70085	Q03591

70	MVSHHN#LTTGATLINEQWLLTTAKNLFLN#HSEN#ATAK	4122.06557	P00739;P00738
71	LYLGSN#NLTALHPALFQN#LSK	2316.22538	P22792
72	ADGTVnQIEGEATPVN#LTEPAK	2256.09551	P05090
73	ADGTVnQIEGEATPVN#LTEPAKLEVK	2725.37821	P05090
74	MVSHHN#LTTGATLInEQWLLTTAK	2681.36416	P00739;P00738
75	GAFISN#FSmTVDGK	1490.68279	P19823
76	MDGASN#VTcINSR	1425.60906	P08603
77	WDPEVN#csMAQIQLcPPPPQIPNSHN#MTTLNYR	4011.81948	P08603
78	SLGNVN#FTVSAEALESQELcGTEVPSVPEHGR	3414.61484	P01023
79	SLGNVN#FTVSAEALESQELcGTEVPSVPEHGRK	3542.70815	P01023
80	HYLVSN#ISHDTVLQcHFTcSGK	2604.19546	P13598
81	LETTVN#YTDSQRPIcLPSK	2223.09903	P03951
82	LQAPLN#YTEFQKPIcLPSK	2248.17038	P03952
83	KFVQGN#STEVAcHPGYGLPK	2190.06289	Q02985
84	TPLTN#ITK	959.54082	P01877
85	WSDIW#ATK	1121.52544	P06276
86	EVLSSN#VSWR	1177.58586	Q8IZF2
87	DIENFN#STQK	1196.54241	P43652
88	LHEITN#ETFR	1260.62162	Q6EMK4
89	IDSTGN#VTNELR	1319.64702	O75882
90	LVPHMN#VSAVEK	1324.69388	Q96KN2
91	SPDViN#GSPiSQuK	1342.68059	P08603
92	ALGFEN#ATQALGR	1348.68596	Q08380
93	LNAENN#ATFYFK	1432.67229	P01042
94	GAFISN#FSmTVDGK	1474.69011	P19823
95	AEPPLN#ASASDQGEK	1514.70049	Q9Y4L1
96	SLEAIN#GSGLQMGLQR	1674.85124	P09172
97	VVLHPN#YSQVDIGLIK	1795.99626	P00738
98	LPYQGN#ATMLVVLMEK	1807.93485	Q9UK55
99	KYNSQN#QSNNQFVLYR	2003.95854	P01042
100	VVLHPN#YSQVDIGLIK	2037.17568	P00738
101	FSYSKN#ETYQLFLSYSSK	2193.04117	P02748
102	KEGYSN#ISYIVVNHQGISSR	2252.13462	P49908
103	FSYSKN#ETYQLFLSYSSKK	2321.13686	P02748
104	IVGGTN#SSWGEWPWQVSLQVK	2359.18169	P03952
105	KAFITN#FSMIIDGMTYPGIKEK	2618.36220	Q14624
106	MVSHHN#LTTGATLINEQWLLTTAK	2680.37418	P00739;P00738
107	GNEAnYYSN#ATTDEHGLVQFSINTTNVmGTSLTVR	3822.73862	P01023
108	SHLQnYTVN#ATK	1377.66648	P40189
109	NFLLN#HSEN#ATAK	1460.70183	P00739;P00738
110	NFLLN#HSEN#ATAKDIAPTLTYVGK	2732.41587	P00739;P00738
111	LNAEnN#ATFYFK	1433.65190	P01042
112	EEQFN#STFRVVSVLTVVHQDWLnGK	2934.47531	P01859
113	EEQYNN#STYRVVSVLTVLHQDWLnGK	2980.48239	P01857
114	EEQYNN#STYRVVSVLTVLHQDWLnGKEYK	3400.67422	P01857
115	GNEAnYYSNATTDEHGLVQFSIN#TTNVMGTSLTVR	3806.75132	P01023
116	NEEYN#KSVQEIQATFFYFTPNN#KTEDTIFLR	3674.75534	P02763;P19652
117	EPGSN#VTmSVDAEcVPMVR	2094.91680	Q08380
118	NQALN#LSLAYSFVTPLSmVVTKPDDQESEQVAEKPMEGESR	4655.27700	Q14624
119	ISEEN#ETTcYMGK	1562.63530	P08603
120	VIDFN#CTTSSVSSALANTK	2015.96086	P04196
121	AELSNN#HTRPVILVPGcLGNQLEAK	2617.37656	P04180
122	EPGSN#VTMSVDAEcVPMVR	2078.91997	Q08380

123	YLPVN#SSLTSDcSER	1841.85906	Q9Y6R7
124	FVQGN#STEVAcHPGYGLPK	2061.97588	Q02985
125	AFHYN#VSSHGcQLLPWTQHSPHTR	2861.32998	P26927
126	GVNFN#VSK	865.44109	P03952
127	DTFVN#ASR	910.42638	P05155
128	EDALN#ETR	948.42571	P10909
129	VQPEN#VTQGK	1118.58403	P13473
130	ETFFN#LSKR	1142.58452	Q9UK55
131	EEQFN#STFR	1158.50688	P01859
132	EEQYN#STFR	1174.50139	P01860
133	EEQFN#STYR	1174.50127	P01861
134	EEQYN#STYR	1190.49651	P01857
135	TMFPN#LTDVR	1194.58245	P06681
136	VSLTN#VSISDEGR	1377.68498	Q9BY67
137	FQLLN#FSSSELK	1413.72771	Q9BY67
138	TAGVN#TTDKEMEVHLHR	1914.95852	P11362
139	EGYSN#ISYIVVNHQGISSR	2124.03238	P49908
140	SLTFN#ETYQDISELVYGAK	2179.04619	P01008
141	AFITN#FSMIIDGMTYPGIIK	2233.12644	Q14624
142	GLKFN#LTETSEAEIHQSFKHLLR	2699.38051	P01011
143	EAFSN#FSSSTLTEVQAISTHGGSGVGDK	2757.29038	P07307
144	LPTQN#ITFQTESSVAEQAEFQSPK	2810.34079	Q14624
145	EEQFN#STFRVSVLTVVHQDWLNGKEYK	3353.68833	P01859
146	NQALN#LSLAYSFVTPLTSVMVTKPDDQESEQVAEKPMEGESR	4639.26137	Q14624
147	YNQN#FSAGnNENImEAHVGINGEANLDFLNIPLTIPEmR	4394.03383	P04114
148	LHInHNN#LTESVGPLPK	1884.98160	P51884
149	SLGnVN#FTVSAEALESQELcGTEVPSVPEHGR	3415.60581	P01023
150	SLGnVN#FTVSAEALESQELcGTEVPSVPEHGRK	3543.71865	P01023
151	DIEFn#STQK	1197.52495	P43652
152	VLSN#nSDANLEINTWVAK	2103.06230	P05155
153	AFEN#VTDLQWLILDHNLLEnSK	2614.30753	P51884
154	THTN#ISESHPN#ATFSAVGEASIcEDDWNSGER	3520.49009	P01871
155	THTN#ISESHPN#ATFSAVGEASIcEDDWDSGER	3521.48911	P04220
156	YDFN#SSmLYSTAK	1543.66301	P04114
157	YTGN#ASALFILPDQDKMEEVEAmLLPETLK	3383.66343	P01011
158	EWDN#TTTEcR	1312.51018	P20851
159	FLNN#GTcTAEGK	1312.58403	P05156
160	GTGN#DTVLNVALLNVISNQEeNIK	2587.31064	P26927
161	GTAN#TTTAGVPcQR	1434.66496	P26927
162	TLLN#ASR	775.43028	P01880
163	DFVN#ASSK	868.40532	P05546
164	VPGN#VTAVLGETLK	1398.78447	P01833
165	YTGN#ASALFILPDQDK	1753.86443	P01011
166	YLGN#ATAIFFLPDEGK	1756.88103	P01009
167	VLSN#nSDANLEINTWVAK	2102.08013	P05155
168	DFVN#ASSKYEITTIHNLFR	2256.13199	P05546
169	IYSN#HSALESALIPLQAPLK	2279.27031	P55058
170	VTQN#LTLLIEESLTSEFIHDIDR	2574.30791	P36955
171	YTGN#ASALFILPDQDKMEEVEAmLLPETLK	3367.67539	P01011
172	YTGN#ASALFILPDQDKMEEVEAmLLPETLKR	3523.78603	P01011
173	YLGN#ATAIFFLPDEGKLQHLENELTHDIITK	3541.82338	P01009
174	LQN#LTLPTN#ASIK	1414.77971	Q13201
175	GVnFN#VSK	866.42546	P03952

176	YKN#nSDISSTR	1286.58513	P01871
177	TLN#QSSDELQLSMGnAMFVK	2215.04770	P01011
178	MLN#TSSLLEQLnEQFnWVSR	2412.15972	P10909
179	GLN#VTLSSTGRnGFK	1552.79766	P0C0L5
180	MLN#TSSLLEQLnEQFNWVSR	2411.16484	P10909
181	LGN#WSAmPScK	1267.54497	P02749
182	TLN#QSSDELQLSmGNAMFVK	2230.03763	P01011
183	VSN#VScQASVSR	1294.60527	P55058
184	ISN#SSDTVEcEcSENWKGEAcDIPHcTDNcGFPHR	4169.64565	O75882
185	ISN#SSDTVEcEcSENWK	2045.81145	O75882
186	LGN#WSAMPSCk	1251.55022	P02749
187	VLN#FTTK	823.45671	P13671
188	NIN#YTER	910.42644	P80108
189	TWN#QSIALR	1089.56865	P12259
190	GLN#VTLSSTGR	1105.58513	P0C0L5
191	HAN#WTLTPLK	1181.63127	P27169
192	YKN#NSDISSTR	1285.60234	P01871
193	KLN#YTLSQGHR	1317.68955	P15144
194	VVN#STTGPGEHLR	1367.69231	P07996
195	FLN#DTMAVYEAK	1402.65715	P29622
196	GLN#LTEDTYKPR	1407.71221	Q08380
197	VQN#MSQSIEVLDR	1519.74040	Q99784
198	AFN#STLPTMAQMEK	1569.73223	P16070
199	LAN#LTQGEDQYYLR	1684.81841	P10909
200	QIN#SSISGNLWDKDQR	1861.90757	Q01459
201	AVN#ITSENLIDDVVSLIR	1972.06145	P02748
202	VSN#QTLSLFFTQLQDPVPR	2164.16875	P01023
203	TLN#QSSDELQLSMGNAMFVK	2214.04424	P01011
204	KIVLDPSGSMMNIYLVLDGSDSIGASN#FTGAK	3170.59934	P00751
205	IVLDPSGSMMNIYLVLDGSDSIGASN#FTGAK	3042.51084	P00751
206	RNPPMGGNVVIFDTVTINQEEPYQN#HSGR	3270.56614	P02745
207	NPPMGGNVVIFDTVTINQEEPYQN#HSGR	3114.45517	P02745
208	GVTSVSQIFHSPDLAIRDTFVN#ASR	2718.38120	P05155
209	AVLQLNEEGVDTAGSTGVTLN#LTSKPIILR	3110.69345	P08185
210	LnAEnN#ATFYFK	1434.64202	P01042
211	YnSQN#QSNNQFVLYR	1876.84697	P01042
212	FN#SSYLQGTnQITGR	1687.79424	P04114
213	GN#ESALWDcK	1180.49321	Q86VB7
214	YN#WSFIHcPAcQcnGHSK	2267.90146	O75882
215	HN#STGcLR	945.42064	P10909
216	WN#NTGcQALPSQDEGPSK	1989.86431	P01833
217	RN#HScEPcQTLAVR	1728.78908	P00748
218	QnQcFYN#SSYLNVQR	1922.83647	P19652
219	SN#SSMHITDcR	1308.53044	P07998
220	YN#FSFR	834.37731	P01031
221	DN#NSIITR	933.46477	P06276
222	EN#ETEIIC	976.48314	P06276
223	FN#DTEVLR	1122.54326	P43251
224	EN#ISDPTSPRL	1229.60100	P01591
225	DN#YTDLVAIQNK	1394.67925	P14151
226	GN#ETLHYETFGK	1396.63786	P13598
227	DN#YTKAEEILSR	1439.70146	P06276
228	FN#SSYLQGTNQITGR	1686.80998	P04114

229	IN#NTHALVSLQLQNLNK	1792.99491	P55290
230	EN#LTAPGSDSAVFFEQGTTR	2127.98467	P00450
231	FN#LTETSEAEIHQSQHLLR	2401.18210	P01011
232	AN#LSSQALQMSLDYGFVTPLSMSIR	2831.40140	P19827
233	LVLSEKTVLTPATNHMGN#VTFTIPANR	3012.58719	P01024
234	RNPPMGGNVVIFDTVnQEEPYQN#HSGR	3271.55166	P02745
235	TALQHLHGVPQGALLEDnREQEcEIISFAETGLSTI ^N #QTR	4478.21547	P55103
236	LSLHRPALEDLLLGEAN#LTcTLTGLR	2964.58554	P01876;P01877
237	VDKDLQSLEDILHQVE ^N #KTSEVK	2668.37002	P02679
238	LSHNELADSGIPGNF ^N #VSSLVELDLSYNK	3220.56845	P51884
239	DVQIVFPEDGIHGFN#FTR	2205.10576	P43251
240	ADGTVNQIEGEATPVN#LTEPAK	2255.12432	P05090
241	ADGTVNQIEGEATPV ^N #LTEPAKLEVK	2724.39511	P05090
242	FQSPAGTEALFELH ^N #ISVADSA ⁿ YScVYVDLKPPFGGSAPSER	4630.18422	P04217
243	VTVQSLLTETLEH ^N #QTYecR	2521.22715	P07333
244	FHDVSESTHWTPFLN#ASVHYIR	2644.25747	P80108
245	SVQEIQATFFYFTP ^N #KTEDTIFLR	2896.44339	P02763;P19652
246	LSHNELADSGIPGnSF ^N #VSSLVELDLSYNK	3221.57004	P51884
247	HGVIIISSTVDTYE ^N #GSSVEYR	2314.07663	P05160
248	YKVDYESQSTDQT ^N #FSSESKR	2500.10483	P17936
249	ADTHDEILEGLNF ^N #LTEIPEAQIHEGFQELLR	3692.81394	P01009
250	VSEHIPVYQQEEN#QTDVWTLL ^N #GSK	2916.39640	P49908
251	LSVDKDQYVEPE ^N #VTIQcDSGYGVVGPQSITcSGNR	3972.82761	P04003
252	PALEDLLLGEAN#LTcTLTGLR	2358.22391	P01876;P01877
253	LQAILGVPWKDN#cTSR	1987.04459	P01019
254	LGTSLSSGHVLM ^N #GTLK	1715.90129	P80108
255	VNQNLVYESGSLN#FSK	1799.88103	P04114
256	AAPAPQEATATFN#STADR	1819.84661	P13598
257	GPSTPLPEDPNW ^N #VTEFHHTPK	2465.16300	P15144
258	QLVEIEKVVHLHP ^N #YSQVDIGLIK	2635.46816	P00738
259	QLVEIEKVVHLHP ^N #YSQVDIGLIK	2876.65249	P00738
260	ADTHDEILEGLnF ^N #LTEIPEAQIHEGFQELLR	3693.81753	P01009
261	LYHFLLGAWSLN#ATELDPcPLSPELLGLTK	3369.74961	Q96PD5
262	ILRQQQHILFGSN#VTDcSGNFcLFR	2898.38198	P02787
263	VYIHPFLVIH ^N #ESTcEQLAK	2536.26651	P01019
264	FNPGAESVVL ^N #STLK	1663.85967	Q13201
265	AYLLPAPPAPGN#ASESEEDR	2084.97881	P17936
266	TVLTPATNHMGN#VTFTIPANR	2256.14353	P01024
267	TDNSL LDQALQ ^N #DTVFLNMR	2309.10893	O75144
268	IADAHLDRVE ^N #TTVYYLVLDVQESDcSVLSR	3581.75014	P04196
269	QSVPAHFVAL ^N #GSK	1455.75945	P06681
270	DASSFLAEWQN#ITK	1610.77178	P08195
271	ESWGQESNAG ^N #QTVVR	1762.80339	Q9NY97
272	AALAAFNAQNN#GSNFQLEEISR	2366.13725	P02765
273	SRYPHKPEIN#STTHPGADLQENFcR	2955.38596	P00734
274	VASVININP ^N #TTHSTGScR	2028.97721	P13473
275	AQLLQGLGFN#LTER	1560.83684	P08185
276	KNAHGEKEN#LTAR	1597.79422	Q06033
277	TVIRPFYLT ^N #SSGVD	1669.84624	Q08380
278	SMVDFMNTD ^N #FTSHR	1802.74710	Q99784
279	EHEGAIYPD ^N #TTDFQR	1893.82878	P00450
280	DFEDLYTPV ^N #GSIVIVR	1937.98833	P02786
281	DIVEYYNDS ^N #GSHVLQGR	2066.94229	P25311

282	NPVGLIGAEN#ATGETDPSHSK	2094.99680	P43251
283	SHAASDAPEN#LTLLAETADAR	2154.03110	Q9ULI3
284	SQILEGLGFN#LTELSESDVHR	2345.16435	P29622
285	nAHGEEKEN#LTAR	1470.68177	Q06033
286	N#GTGHGN#STHGPEYMR	1853.76470	P02790
287	nLFLN#HSEnATAK	1461.68413	P00739;P00738
288	nN#ATVHEQVGGPSLTSDLQAQSK	2383.14017	P04004
289	N#MTFDLPSDATVVLnR	1794.85784	P11279
290	N#LSmPLLPADFHK	1499.75701	P05546
291	N#HScEPcQLTLAVR	1572.68486	P00748
292	N#HScSEGQISIFR	1535.69126	O75882
293	N#TTcQDLQIEVTVK	1649.80705	P0C0L5
294	N#YTLTGR	825.40935	P10643
295	N#LTTSLTESVDR	1336.66020	P80108
296	N#LSMPLLPAFDHK	1483.76225	P05546
297	RNPPmGGNVVIFDTVTINQEEPYQN#HSGR	3286.54922	P02745
298	TVLTPATNHmGN#VTFTIPANR	2272.13962	P01024
299	mDGASN#VTcINSR	1441.60649	P08603
300	mVSHHN#LTTGATLINEQWLTTAK	2696.37221	P00739;P00738
301	mKVSN#VScQASVSR	1569.73577	P55058
302	mFSQN#DTR	1015.41442	P02750
303	mLN#TSSLLEQLNEQFNWVSR	2426.16776	P10909
304	mVSHHNLTGATLINEQWLTTAKNLFLN#HSEN#ATAK	4137.05239	P00739;P00738
305	SDHGSSIScQPPAEIPGYLPADTVHLAVEFFN#LTHLPANLLQGAS	4900.43227	P02750
306	GGNSNGALcHFPLFLYnNHN#YTDcTSEGR	3204.30752	P02751
307	SHEIWTHScPQSPGN#GTDASH	2305.95464	P04278
308	VYLQGLIDcYLFGN#SSTVLEDSK	2622.27153	P35542
309	LKELPGVcN#ETMMALWEEcKPcLK	2937.37241	P10909
310	ASPPSSScN#ISSGEMQK	1767.75652	P04275
311	WVLTAAHcLLYPPWDKN#FTENDLLVR	3172.59519	P00734
312	TELFSSScPGGIMLN#ETGQQGYQR	2533.13889	O95445
313	DTAVFEcLPQHAMFGN#DTITcTTHGN#WTKLPEcR	4009.76748	P02749
314	DTAVFEcLPQHAMFGN#DTITcTTHGN#WTK	3354.45591	P02749
315	DAGVVcTN#ETR	1222.53850	Q08380
316	ELPGVcN#ETMMALWEEcKPcLK	2696.19756	P10909
317	KEHETcLAPELYnGN#YSTTQK	2485.11948	P05160
318	LTDTIcGVGN#MSAN#ASDQER	2140.91582	P06681
319	KTLFcN#ASKEWDN#TTTEcR	2363.03904	P20851
320	SIPAcVPWSPYLFQPNN#DTcIVSGWGR	3008.40982	P05156
321	EHETcLAPELYNNGN#YSTTQK	2356.03781	P05160
322	AATcINPLN#GSVcERPAN#HSAK	2369.10074	O75882
323	QDQcIYN#TTYLNVQREN#GTISR	2675.23221	P02763
324	QDQcIYN#TTYLNvQQR	1917.86771	P02763
325	MEAcMLN#GTVIGPGK	1578.73332	P04275
326	QDQcIYN#TTYLNvQQR	1916.88262	P02763
327	QNQcFYN#SSYLNvQQR	1921.85063	P19652
328	TLFcN#ASKEWDN#TTTEcR	2234.93424	P20851
329	LGAcN#DTLQQLmEVFK	1883.89104	P01008
330	TLFcN#ASK	941.43712	P20851
331	WEYcN#LTR	1142.49687	Q16609
332	LGAcN#DTLQQLmEVFK	1867.89018	P01008
333	DKIcDLLVANNHFAFFAPQN#LtMNK	3174.52041	P19827
334	LGHcPDPVLVNGEFSSSGPVN#VSDK	2612.23239	P20851

335	DKIcDLLVANNHFAHFFAPQN#LTNMNK	3173.53139	P19827
336	LGHcPDPVLVnGEFSSSGPVN#VSDK	2613.21347	P20851
337	WNPcLEPHRFN#DTEVLQR	2312.08609	P43251
338	VTAcHSSQPNN#ATLYK	1677.79082	P05543
339	KTTcNPcPLGYKEEN#NTGEccGR	2746.13797	P04275
340	SScGKEN#TSDPSLVIAGFR	2025.95707	P11279
341	GIcN#SSDVR	1008.44090	O75882
342	IPcSQPPQIEHTIN#SSR	2021.97637	P08603
343	DQcIVDDITYNVN#DTFHKK	2197.97000	P02751
344	DQcIVDDITYNVN#DTFHKK	2354.07705	P02751
345	YTcEEPYYYMEEnGGGEYHcAGN#GSWVNEVLGPELPK	4228.75486	P09871
346	VScPIMPcSN#ATVPDGEccPR	2407.98117	P07996
347	KVcQDcPLLAPLN#DTR	1900.92620	P02765
348	IcDLLVANnHFAHFFAPQN#LTNMNK	2931.39736	P19827
349	GeVLLSYLNN#ETVTVSASLESVR	2398.22026	P01023
350	NcGVN#cSGDVFTALIGEIASPNYPKPYPPNSR	2684.24663	P09871
351	NcGVN#cSGDVFTALIGEIASPNYPKPYPPNSR	3527.62221	P09871
352	FcRDN#YTDLVAIQNK	1857.88457	P14151
353	KcGN#cSLTTLKDEDFcK	2076.90104	P49908
354	LcDN#LSTK	951.44560	P02774
355	IcDLLVANNHFAHFFAPQN#LTNMNK	2930.40927	P19827
356	IcAMEGLPQKHIN#FSHccSK	2304.99965	P43652
357	VcQDcPLLAPLN#DTR	1772.83245	P02765
358	SPYEMFGDEEVMcLNGN#WTEPPQcK	3019.22715	P08603;Q03591
359	FSLLGHASIScTVE#ETIGVWRPSPTcEK	3373.62595	P04003
360	LEPVHLQLQcMSQEQLAQVAAN#ATK	2808.40445	Q96PD5
361	cATPHGDN#ASLEATFVK	1818.83342	P23142
362	cATPHGDN#ASLEATFVKR	1974.93399	P23142
363	cIQAN#YSLMEnGKIK	1770.84270	P05090
364	cIQAN#YSLMENGK	1528.67754	P05090
365	cIN#QSICek	1152.50273	O75882
366	cGN#cSLTTLKDEDFcK	1948.81015	P49908
367	cGN#cSLTTLKDEDFcKR	2104.91050	P49908
368	cN#YSIR	813.35643	P00736
369	cSDGWSFDATTLDDN#GTMLFFK	2529.05783	P02790
370	cKPGYATADGN#SSGSITcLQnGWSAQPiCIN#SSEK	3761.64219	Q02985
371	cQVcGGDN#STcSPR	1598.60430	Q76LX8