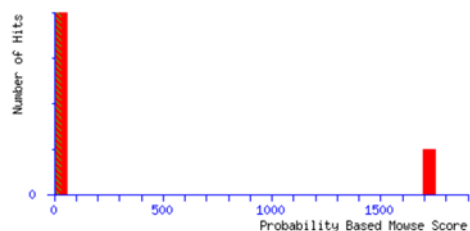


# Mascot Search Results

User :  
 Email :  
 Search title :  
 MS data file : C:\Dokumente und Einstellungen\Juliane\Eigene Dateien\Qtrap-files\Quantifizierung 13082008\MS2 IP-Proben 13082008\Qtrap0015766-1  
 Database : Sprot 51.6 (257964 sequences; 93947433 residues)  
 Taxonomy : Rattus (5769 sequences)  
 Timestamp : 19 Aug 2008 at 16:49:39 GMT  
 Protein hits : [ANPRA\\_RAT](#) Atrial natriuretic peptide receptor A precursor (ANP-A) (ANPRA) (GC-A) (Guanylate cyclase) (EC 4.6.1.2) (NPR-A) (Atria  
[UBIQ\\_RAT](#) Ubiquitin - Rattus norvegicus (Rat)  
[RBM10\\_RAT](#) RNA-binding protein 10 (RNA-binding motif protein 10) (S1-1 protein) - Rattus norvegicus (Rat)  
[MPIP2\\_RAT](#) M-phase inducer phosphatase 2 (EC 3.1.3.48) (Dual specificity phosphatase Cdc25B) - Rattus norvegicus (Rat)  
[GORS2\\_RAT](#) Golgi reassembly-stacking protein 2 (GRS2) (Golgi reassembly-stacking protein of 55 kDa) (GRASP55) - Rattus norvegicus

## Probability Based Mowse Score

Ions score is  $-10 \cdot \log(P)$ , where P is the probability that the observed match is a random event.  
 Individual ions scores > 28 indicate identity or extensive homology ( $p < 0.05$ ).  
 Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



## Peptide Summary Report

Format As  [Help](#)

Significance threshold  $p < 0.05$  Max. number of hits

Standard scoring ☐ MudPIT scoring ☒ Ions score or expect cut-off  Show sub-sets

Show pop-ups ☒ Suppress pop-ups ☐ Sort unassigned  Require bold red ☐

☐ Error tolerant

1. [ANPRA\\_RAT](#) Mass: 119789 Score: 1725 Queries matched: 57 empAI: 3.56  
 Atrial natriuretic peptide receptor A precursor (ANP-A) (ANPRA) (GC-A) (Guanylate cyclase) (EC 4.6.1.2) (NPR-A) (Atrial natriuretic peptide  
☐ Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Score	Expect	Rank	Peptide
<a href="#">6</a>	409.3000	816.5854	816.4031	0.1823	0	31	0.027	1	R.FTAHWR.V
<a href="#">92</a>	457.7700	913.5254	913.4869	0.0386	0	34	0.012	1	K.IHLSSETK.A
<a href="#">126</a>	497.2500	992.4854	992.4346	0.0509	0	59	4e-005	1	K.SSNCVVDGR.F
<a href="#">129</a>	497.7300	993.4454	993.4437	0.0018	0	(42)	0.0022	1	R.MESNGEALK.I + Oxidation (M)
<a href="#">130</a>	497.7400	993.4654	993.4437	0.0218	0	43	0.0017	1	R.MESNGEALK.I + Oxidation (M)
<a href="#">158</a>	519.3100	1036.6054	1036.5342	0.0713	0	33	0.017	1	R.TYWLLGER.G
<a href="#">208</a>	536.7900	1071.5654	1071.6110	-0.0456	0	(48)	0.00054	1	R.MALALLDAVR.S
<a href="#">209</a>	536.8100	1071.6054	1071.6110	-0.0056	0	87	7.1e-008	1	R.MALALLDAVR.S
<a href="#">220</a>	544.8200	1087.6254	1087.6059	0.0195	0	(53)	0.00019	1	R.MALALLDAVR.S + Oxidation (M)
<a href="#">231</a>	548.3300	1094.6454	1094.6448	0.0007	0	36	0.0085	1	R.VGPAVELALAR.V
<a href="#">233</a>	548.3600	1094.7054	1094.6448	0.0607	0	(31)	0.028	1	R.VGPAVELALAR.V
<a href="#">239</a>	556.2800	1110.5454	1110.5418	0.0037	0	48	0.00054	1	R.DVQNEHLTR.F
<a href="#">241</a>	556.3100	1110.6054	1110.5418	0.0637	0	(35)	0.0098	1	R.DVQNEHLTR.F
<a href="#">250</a>	564.7900	1127.5654	1127.6087	-0.0433	0	75	1.1e-006	1	K.LGDFVTALHR.R
<a href="#">254</a>	569.3000	1136.5854	1136.5826	0.0029	1	45	0.0012	1	R.TQAYLEEK.R
<a href="#">427</a>	680.3400	1358.6654	1358.6466	0.0188	0	33	0.021	1	R.WEDLPQPSLER.H
<a href="#">449</a>	690.8900	1379.7654	1379.7674	-0.0019	0	51	0.00031	1	K.ARPDLLPGWTVR.M
<a href="#">506</a>	734.8300	1467.6454	1467.6994	-0.0540	0	40	0.0047	1	R.DPEPEQGHTLFAK.K
<a href="#">513</a>	737.8700	1473.7254	1473.7423	-0.0168	0	63	2.4e-005	1	K.ENSSNILDNLLSR.M
<a href="#">516</a>	738.9700	1475.9254	1475.9075	0.0179	0	70	4.5e-006	1	R.VPLLTAGAPALGIGVK.D
<a href="#">525</a>	747.3500	1492.6854	1492.7085	-0.0231	0	58	6.9e-005	1	K.EPDNPYELEFLK.Q
<a href="#">527</a>	748.4200	1494.8254	1494.7943	0.0312	0	32	0.026	1	K.SAQGLVPQKPWER.G
<a href="#">534</a>	752.3500	1502.6854	1502.6824	0.0031	0	50	0.00046	1	R.YCLFGDVTNTASR.M
<a href="#">543</a>	755.9100	1509.8054	1509.7715	0.0339	0	54	0.00019	1	R.SGVFFYVEGLDLSPK.E
<a href="#">544</a>	755.9100	1509.8054	1509.7715	0.0339	0	(53)	0.00024	1	R.SGVFFYVEGLDLSPK.E
<a href="#">593</a>	789.4300	1576.8454	1576.8760	-0.0305	0	54	0.00018	1	R.IGIHTGPVCAGVVGLK.M
<a href="#">594</a>	526.6800	1577.0182	1576.8760	0.1422	0	(43)	0.0019	1	R.IGIHTGPVCAGVVGLK.M
<a href="#">660</a>	821.3700	1640.7254	1640.8603	-0.1348	0	59	5.6e-005	1	K.LYWPLGYPDPVPK.C
<a href="#">676</a>	833.8800	1665.7454	1665.8250	-0.0795	0	91	4e-008	1	K.AVLEEFDPFELELR.G
<a href="#">681</a>	835.9300	1669.8454	1669.8576	-0.0122	0	(52)	0.00032	1	R.LGWEHQALVLYADR.L
<a href="#">682</a>	557.6500	1669.9282	1669.8576	0.0706	0	57	8.9e-005	1	R.LGWEHQALVLYADR.L
<a href="#">744</a>	903.4000	1804.7854	1804.9393	-0.1539	0	(89)	6.3e-008	1	K.VETIGDAYMVVSGLPVR.N
<a href="#">745</a>	602.6400	1804.8982	1804.9393	-0.0412	0	(47)	0.001	1	K.VETIGDAYMVVSGLPVR.N
<input checked="" type="checkbox"/> <a href="#">755</a>	607.9300	1820.7682	1820.9343	-0.1661	0	(88)	6.9e-008	1	K.VETIGDAYMVVSGLPVR.N + Oxidation (M)

<input checked="" type="checkbox"/>	<a href="#">756</a>	911.4300	1820.8454	1820.9343	-0.0888	0	98	7.9e-009	1	K.VETIGDAYMVVSGLPVR.N + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">760</a>	609.6500	1825.9282	1825.9587	-0.0306	1	45	0.0017	1	R.RLGWEHQALVLYADR.L
<input checked="" type="checkbox"/>	<a href="#">763</a>	622.0200	1863.0382	1862.9486	0.0896	1	47	0.0011	1	K.FNKENSNNILDNLLSR.M
<input checked="" type="checkbox"/>	<a href="#">766</a>	933.9100	1865.8054	1865.8465	-0.0410	0	88	8.9e-008	1	R.MEQYANNLEELVEER.T
<input checked="" type="checkbox"/>	<a href="#">767</a>	622.9700	1865.8882	1865.8465	0.0417	0	(52)	0.00032	1	R.MEQYANNLEELVEER.T
<input checked="" type="checkbox"/>	<a href="#">771</a>	941.9000	1881.7854	1881.8414	-0.0560	0	(76)	1.2e-006	1	R.MEQYANNLEELVEER.T + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">772</a>	628.2800	1881.8182	1881.8414	-0.0232	0	(48)	0.00089	1	R.MEQYANNLEELVEER.T + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">774</a>	628.9800	1883.9182	1883.9135	0.0047	0	44	0.0024	1	K.GMLFLHNGAICSHGNLK.S + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">776</a>	629.0100	1884.0082	1883.9135	0.0947	0	(32)	0.033	1	K.GMLFLHNGAICSHGNLK.S + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">792</a>	1001.8900	2001.7654	2001.8415	-0.0760	0	72	3.6e-006	1	R.DTDFSLWMDPETAFAFR.V
<input checked="" type="checkbox"/>	<a href="#">811</a>	1024.0500	2046.0854	2046.0058	0.0796	0	61	4e-005	1	R.GSNGYSLLTTEGQFQVFAK.T
<input checked="" type="checkbox"/>	<a href="#">824</a>	696.6700	2086.9882	2086.9969	-0.0087	0	35	0.019	1	R.LGDDRPCFFIVEGLYMR.V
<input checked="" type="checkbox"/>	<a href="#">836</a>	704.7300	2111.1682	2111.0826	0.0855	1	(31)	0.038	1	K.IITYKEPDNPEYLEFLK.Q
<input checked="" type="checkbox"/>	<a href="#">837</a>	704.7300	2111.1682	2111.0826	0.0855	1	75	1.5e-006	1	K.IITYKEPDNPEYLEFLK.Q
<input checked="" type="checkbox"/>	<a href="#">842</a>	1069.0500	2136.0854	2136.1215	-0.0361	0	58	9.7e-005	1	R.GSQAGDVYSFGIILQEIALR.S
<input checked="" type="checkbox"/>	<a href="#">848</a>	717.7800	2150.3182	2150.2099	0.1083	1	49	0.00056	1	R.KAEALLYQLPHSVAEQLK.R
<input checked="" type="checkbox"/>	<a href="#">893</a>	1179.0700	2356.1254	2356.1423	-0.0168	0	(32)	0.032	1	K.WEHSFAVFLGPGCVYSAPVGR.F
<input checked="" type="checkbox"/>	<a href="#">894</a>	786.4000	2356.1782	2356.1423	0.0359	0	58	7.7e-005	1	K.WEHSFAVFLGPGCVYSAPVGR.F
<input checked="" type="checkbox"/>	<a href="#">908</a>	809.4800	2425.4182	2425.3580	0.0601	1	72	2.7e-006	1	R.VPLLTAGAPALGIGVKDEYALTTR.T
<input checked="" type="checkbox"/>	<a href="#">910</a>	815.6700	2443.9882	2444.0339	-0.0457	1	46	0.0015	1	R.NGDRDTEFSLWMDPETAFAFR.V
<input checked="" type="checkbox"/>	<a href="#">921</a>	849.7500	2546.2282	2546.2356	-0.0075	0	(64)	2.1e-005	1	R.MVLGSSENAAGVCSDTAAPLAADVLDK.W
<input checked="" type="checkbox"/>	<a href="#">923</a>	1282.1000	2562.1854	2562.2305	-0.0451	0	(56)	0.00014	1	R.MVLGSSENAAGVCSDTAAPLAADVLDK.W + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">924</a>	855.0800	2562.2182	2562.2305	-0.0124	0	86	1.6e-007	1	R.MVLGSSENAAGVCSDTAAPLAADVLDK.W + Oxidation (M)

**2. [UBIQ\\_RAT](#) Mass: 8560 Score: 51 Queries matched: 1 emPAI: 0.48**

Ubiquitin - Rattus norvegicus (Rat)

☐ Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> <a href="#">216</a>	541.3000	1080.5854	1080.5451	0.0403	0	51	0.00029	1	R.TLSDYNIQK.E

**3. [RBM10\\_RAT](#) Mass: 94672 Score: 44 Queries matched: 1 emPAI: 0.04**

RNA-binding protein 10 (RNA-binding motif protein 10) (S1-1 protein) - Rattus norvegicus (Rat)

☐ Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> <a href="#">225</a>	545.7700	1089.5254	1089.5051	0.0204	0	44	0.0014	1	R.DGLGSDNIGSR.M

**4. [MPIP2\\_RAT](#) Mass: 64987 Score: 38 Queries matched: 1 emPAI: 0.06**

M-phase inducer phosphatase 2 (EC 3.1.3.48) (Dual specificity phosphatase Cdc25B) - Rattus norvegicus (Rat)

☐ Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> <a href="#">91</a>	457.2400	912.4654	912.5393	-0.0738	1	38	0.0047	1	R.DVPVLSKR.R

**5. [GORS2\\_RAT](#) Mass: 47419 Score: 33 Queries matched: 1 emPAI: 0.08**

Golgi reassembly-stacking protein 2 (GRS2) (Golgi reassembly-stacking protein of 55 kDa) (GRASP55) - Rattus norvegicus (Rat)

☐ Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> <a href="#">184</a>	530.7500	1059.4854	1059.5560	-0.0706	1	33	0.021	1	R.LNKDNDTLK.D

Peptide matches not assigned to protein hits: (no details means no match)

Query	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> <a href="#">234</a>	548.3800	1094.7454	1094.6448	0.1007	0	30	0.037	1	VGPAVELALAR
<input checked="" type="checkbox"/> <a href="#">927</a>	884.1000	2649.2782	2649.2711	0.0071	1	29	0.063	1	ITDYGLESFRDPEPEQGHTLFAK
<input checked="" type="checkbox"/> <a href="#">482</a>	714.3300	1426.6454	1426.6915	-0.0460	0	29	0.05	1	VIYICSSPDAFR
<input checked="" type="checkbox"/> <a href="#">799</a>	675.0400	2022.0982	2022.1149	-0.0168	0	29	0.059	1	AEALLYQLPHSVAEQLK
<input checked="" type="checkbox"/> <a href="#">116</a>	484.7300	967.4454	967.4611	-0.0156	0	28	0.054	1	DEYALTTR
<input checked="" type="checkbox"/> <a href="#">61</a>	438.8400	875.6654	875.4647	0.2008	2	28	0.05	1	KMEGGARK
<input checked="" type="checkbox"/> <a href="#">94</a>	457.7800	913.5454	913.4869	0.0586	0	27	0.061	1	IHLSETK
<input checked="" type="checkbox"/> <a href="#">222</a>	544.8400	1087.6654	1087.6059	0.0595	0	27	0.072	1	MALALLDAVR + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">93</a>	457.7700	913.5254	913.4869	0.0386	0	27	0.064	1	IHLSETK
<input checked="" type="checkbox"/> <a href="#">156</a>	519.3000	1036.5854	1036.5342	0.0513	0	27	0.071	1	TYWLLGER
<input checked="" type="checkbox"/> <a href="#">775</a>	629.0000	1883.9782	1883.9135	0.0647	0	27	0.11	1	GMLFLHNGAICSHGNLK + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">121</a>	489.7800	977.5454	977.4488	0.0967	0	27	0.074	1	MESNGEALK
<input checked="" type="checkbox"/> <a href="#">662</a>	548.0000	1640.9782	1640.8603	0.1179	0	26	0.1	1	LYWPLGYPPDPVK
<input checked="" type="checkbox"/> <a href="#">255</a>	569.3200	1136.6254	1136.5826	0.0429	1	26	0.093	1	TQAYLEEK
<input checked="" type="checkbox"/> <a href="#">640</a>	807.8900	1613.7654	1613.8161	-0.0507	1	26	0.12	1	VRWEDLPSSLER
<input checked="" type="checkbox"/> <a href="#">529</a>	499.3500	1495.0282	1494.7943	0.2339	0	26	0.078	1	SAQGLVPQKPWER
<input checked="" type="checkbox"/> <a href="#">3</a>	396.7600	791.5054	791.4211	0.0844	1	26	0.085	1	KM <sup>Q</sup> LEK + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">134</a>	504.2600	1006.5054	1006.4502	0.0553	1	24	0.12	1	ACKTEADGR
<input checked="" type="checkbox"/> <a href="#">290</a>	396.7600	1187.2582	1187.5450	-0.2868	2	24	0.13	1	YTYFMKKK + Phospho (Y)
<input checked="" type="checkbox"/> <a href="#">2</a>	394.2400	786.4654	786.4712	-0.0057	1	24	0.13	1	RIELTR
<input checked="" type="checkbox"/> <a href="#">188</a>	530.7700	1059.5254	1059.4750	0.0504	1	24	0.16	1	ERGLFSGSK + Phospho (ST)

152	519.2400	1036.4654	1036.5342	-0.0687	0	24	0.14	1	TYWLLGER
875	750.8700	2249.5882	2249.8654	-0.2772	1	24	0.12	1	YTDYDPTSEESLPSSGKSK + 2 Phospho (ST)
155	519.2800	1036.5454	1036.5342	0.0113	0	24	0.15	1	TYWLLGER
313	613.8800	1225.7454	1225.7183	0.0272	1	24	0.17	1	KLWTAPELLR
100	465.7700	929.5254	929.5447	-0.0192	1	23	0.16	1	WSLQIRK
828	701.9900	2102.9482	2102.9918	-0.0436	0	23	0.29	1	LGDDRPCFFIVEGLYMR + Oxidation (M)
124	491.2800	980.5454	980.4814	0.0640	0	23	0.16	1	TQAYLEEK
120	489.7600	977.5054	977.4488	0.0567	0	23	0.17	1	MESNGEALK
149	516.3100	1030.6054	1030.5447	0.0607	0	23	0.19	1	ELVSELWR
835	1056.5300	2111.0454	2111.0826	-0.0372	1	23	0.3	1	IITYKEPDNPEYLEFLK
238	550.8300	1099.6454	1099.6489	-0.0034	0	22	0.22	1	DVLTTITLTPK
205	534.7800	1067.5454	1067.5764	-0.0309	2	22	0.21	1	KNEKQFFK
901	1192.0300	2382.0454	2382.0807	-0.0352	0	22	0.39	1	FVGACTDPPNICILTEYCPR
232	548.3400	1094.6654	1094.6448	0.0207	0	21	0.27	1	VGPAVELALAR
153	519.2400	1036.4654	1036.5342	-0.0687	0	21	0.26	1	TYWLLGER
496	485.2400	1452.6982	1452.6875	0.0107	1	21	0.35	1	HFQRSSLANVSK + Phospho (ST)
417	449.2400	1344.6982	1344.6591	0.0391	1	21	0.36	1	AVLTKYHLTR + Phospho (Y)
60	438.8400	875.6654	875.5480	0.1174	1	20	0.28	1	KVLFLK
389	440.2300	1317.6682	1317.6207	0.0475	1	20	0.39	1	ARALLTTGSLR + 2 Phospho (ST)
535	752.3800	1502.7454	1502.6824	0.0631	0	20	0.44	1	YCLFGDTVNTASR
147	512.2500	1022.4854	1022.4920	-0.0066	0	20	0.34	1	EFTEAVEAK
154	519.2400	1036.4654	1036.5342	-0.0687	0	20	0.35	1	TYWLLGER
119	488.7600	975.5054	975.4695	0.0359	0	20	0.37	1	QEEVCAIK
695	567.9800	1700.9182	1700.8354	0.0828	2	20	0.51	1	TQEAIQIMKMRK + 2 Oxidation (M); Phospho (ST)
196	530.7900	1059.5654	1059.4638	0.1017	0	20	0.45	1	QFAEGSTLK + Phospho (ST)
915	828.3400	2481.9982	2482.1273	-0.1291	1	19	0.71	1	GAMGIMLVYDITNEKSFNIR + Oxidation (M); Phospho (ST)
5	409.2200	816.4254	816.4031	0.0223	0	19	0.46	1	FTAHWR
587	522.1500	1563.4282	1563.7496	-0.3215	1	19	0.52	1	LKGAILTTMLATR + Oxidation (M); 2 Phospho (ST)
851	719.2500	2154.7282	2154.8286	-0.1004	1	19	0.67	1	ADHRSSPNVANQPPSPGK + 3 Phospho (ST)
350	427.3800	1279.1182	1279.4315	-0.3134	0	19	0.15	1	IYEDGDDDMK + Phospho (Y)
641	538.9300	1613.7682	1613.8161	-0.0480	1	19	0.66	1	VRWEDLQPSLER
375	430.1200	1287.3382	1287.5083	-0.1702	2	19	0.52	1	MYRSTKGASK + Phospho (ST); Phospho (Y)
279	587.7500	1173.4854	1173.5617	-0.0763	0	19	0.56	1	MILLAFSSGR + Phospho (ST)
362	429.1900	1284.5482	1284.5646	-0.0164	1	19	0.59	1	QSARMTSPSVGR + Oxidation (M); Phospho (ST)
203	532.3300	1062.6454	1062.5683	0.0772	0	19	0.48	1	HRPQEQLR
946	1007.3800	3019.1182	3019.1820	-0.0639	2	19	0.74	1	QVKVTVNPPTITESKSNEATTGR + 5 Phospho (ST)
559	510.7100	1529.1082	1528.8824	0.2258	1	19	0.32	1	ATIISEQQAQSLK
151	519.0900	1036.1654	1036.5342	-0.3687	0	18	0.41	1	TYWLLGER
721	587.7500	1760.2282	1759.8886	0.3395	1	18	0.38	1	KNCAILIENDQSISR
123	491.2400	980.4654	980.4814	-0.0160	0	18	0.45	1	TQAYLEEK
125	491.2900	980.5654	980.4814	0.0840	0	18	0.48	1	TQAYLEEK
850	718.3500	2152.0302	2152.0300	-0.0018	1	18	0.87	1	LQNELDNVSTLLEAEKK + Phospho (ST)
555	508.2600	1521.7582	1521.4979	0.2602	0	18	0.7	1	NFGSYVTHETK + 2 Phospho (ST); Phospho (Y)
854	728.8600	2183.5582	2183.8691	-0.3109	1	18	0.51	1	SLYSSSPGGAYVTRSSAVR + 3 Phospho (ST)
454	696.6700	1391.3254	1391.6697	-0.3443	0	18	0.54	1	NLAPLVEDVQSK + Phospho (ST)
384	438.8400	1313.4982	1313.6873	-0.1891	2	18	0.72	1	KLKLPSVLTR + 2 Phospho (ST)
197	530.7900	1059.5654	1059.5560	0.0094	1	18	0.68	1	LNKDNDTLK
295	600.7900	1199.5654	1199.5822	-0.0168	0	18	0.68	1	ITDYGLSFR
409	446.2200	1335.6382	1335.5446	0.0936	2	18	0.74	1	SGRGGSGIRSSR + 2 Phospho (ST)
485	478.2700	1431.7882	1431.6857	0.1025	0	18	0.79	1	LFFQPYQAGMSK + Oxidation (M)
187	530.7700	1059.5254	1059.5560	-0.0306	1	17	0.74	1	LNKDNDTLK
958	1069.0500	3204.1282	3204.3450	-0.2168	1	17	0.98	1	FPVDGKVLGNMTMADES_LITGEAMPVTK + Oxidation (M); 3 Phospho (ST)
164	521.7200	1041.4254	1041.3586	0.0669	0	17	0.65	1	LLSPGTSK + 3 Phospho (ST)
479	473.3600	1417.0582	1416.7435	0.3147	0	17	0.47	1	MDQLHIYQLK + Oxidation (M)
223	544.8500	1087.6854	1087.6059	0.0795	0	17	0.7	1	MALALLDAVR + Oxidation (M)
829	702.0000	2102.9782	2102.9918	-0.0136	0	17	1.1	1	LGDDRPCFFIVEGLYMR + Oxidation (M)
735	596.3300	1785.9682	1785.8518	0.1164	2	17	0.97	1	MATVDLEKLRLMSGAGK + Phospho (ST)
192	530.7800	1059.5454	1059.5114	0.0341	2	17	0.77	1	KERTAFTK + Phospho (ST)
101	465.7900	929.5654	929.4930	0.0724	0	17	0.68	1	ETGVQIAGR
719	587.7400	1760.1982	1759.8886	0.3095	1	17	0.63	1	KNCAILIENDQSISR
177	526.8400	1051.6654	1051.5550	0.1105	0	17	0.66	1	YSLTNDIVK
52	431.0400	860.0654	860.4045	-0.3390	0	17	0.59	1	ISVFTSK + Phospho (ST)
758	608.2900	1821.8482	1821.9295	-0.0813	1	17	1.1	1	VETIGDAYMVASGLPKR + Oxidation (M)
507	490.2900	1467.8482	1467.6994	0.1488	0	17	0.9	1	DPEPEQGHTLFAK
571	519.2800	1554.8182	1554.8154	0.0028	0	17	0.89	1	NQIALWDQLLEGR
23	417.2600	832.5054	832.3926	0.1128	1	17	0.67	1	GDAGEEKK
78	446.2200	890.4254	890.5450	-0.1196	2	17	0.7	1	RGYKVLK
739	599.3300	1794.9682	1794.7468	0.2213	1	17	1	1	CGSHSAELAAARDSGAR + Phospho (ST)
876	751.3900	2251.1482	2251.0829	0.0653	2	17	1.2	1	QDDVTVKVSNTHNPSSDRDK
619	530.7900	1589.3482	1589.6467	-0.2985	0	17	0.64	1	GDLNINMTSPMGTK + 2 Oxidation (M); Phospho (ST)
368	429.2200	1284.6382	1284.6479	-0.0097	1	17	0.94	1	KQVLESFQVK + Phospho (ST)
533	751.3900	1500.7654	1500.8300	-0.0646	1	17	1	1	IEVRFPETIQAAK
127	497.7000	993.3854	993.4437	-0.0542	0	17	0.72	1	MESNGEALK + Oxidation (M)
483	714.3700	1426.7254	1426.6915	0.0340	0	17	0.98	1	VIYICSSPDADR
190	530.7800	1059.5454	1059.5560	-0.0106	1	16	0.9	1	LNKDNDTLK
568	519.2400	1554.6982	1554.6731	0.0250	2	16	1	1	REYLKTLSEEK + Phospho (ST); Phospho (Y)

742	601.2000	1800.5782	1800.8560	-0.2778	1	16	1.1	1	EYLWSPSAARLVSSR + Phospho (ST)
51	430.1200	858.2254	858.3848	-0.1593	1	16	0.91	1	KSTTGASK + Phospho (ST)
436	457.2400	1368.6982	1368.7067	-0.0086	0	16	1	1	FPHVSALLLHR + Phospho (ST)
341	628.2800	1254.5454	1254.5550	-0.0096	0	16	0.91	1	MEQYANNLEK + Oxidation (M)
360	429.1800	1284.5182	1284.5963	-0.0781	0	16	1	1	LSLTDNQTVSK + Phospho (ST)
736	597.2700	1788.7882	1788.8901	-0.1019	2	16	1.2	1	KSPAVPSSNAASGGMTTR + Oxidation (M)
157	519.3100	1036.6054	1036.5342	0.0713	0	16	0.84	1	TYWLLGER
574	519.3100	1554.9082	1554.6224	0.2858	0	16	1	1	MTTSTSPAAMLLR + Oxidation (M); 2 Phospho (ST)
281	587.7600	1173.5054	1173.5431	-0.0377	0	16	1	1	SLFSSNGGVVK + Phospho (ST)
1	389.2800	776.5454	776.4181	0.1274	0	16	0.68	1	FNEIVR
337	417.2400	1248.6982	1248.6748	0.0234	1	16	0.98	1	TVLSDKSVLCK
25	417.5700	833.1254	833.4243	-0.2988	1	16	0.73	1	KEASGSQK
807	680.9800	2039.9182	2040.0041	-0.0859	1	16	1.4	1	EPPAAPSERLSLSLPGPR + Phospho (ST)
843	713.3700	2137.0882	2136.9251	0.1631	1	16	1.5	1	FTQGQGVMAETCVPVLR + 2 Phospho (ST)
358	429.1200	1284.3382	1284.5963	-0.2581	0	16	1.1	1	LSLTDNQTVSK + Phospho (ST)
740	600.2400	1797.6982	1797.6520	0.0461	0	16	1.4	1	VIMAESSTYAAIMR + Oxidation (M); 3 Phospho (ST)
27	427.3800	852.7454	852.4314	0.3140	0	16	0.62	1	HGSSGRPR
637	536.8100	1607.4082	1607.7580	-0.3498	0	16	1.1	1	LSDYYDIHQEIGR
732	592.2300	1773.6682	1773.7835	-0.1154	1	15	1.4	1	YAGLLFSSRSDAHDR + Phospho (ST)
892	768.8300	2303.4682	2303.2362	0.2320	2	15	0.91	1	QQLLRATGKAILNGIDSINK + Phospho (ST)
106	466.2500	930.4854	930.5134	-0.0280	1	15	1	1	LLESDKAR
114	481.2500	960.4854	960.5240	-0.0385	1	15	1	1	RSSIEELK
861	736.9900	2207.9482	2208.1959	-0.2477	1	15	1.6	1	QTIFLLEKPFVKAGEALK + Phospho (ST)
702	574.3100	1719.9082	1719.5705	0.3377	0	15	1.4	1	SCMNQVTVSTMDR + 2 Oxidation (M); 2 Phospho (ST)
378	431.1000	1290.2782	1290.5298	-0.2516	0	15	0.91	1	NPIFLPTDSK + 2 Phospho (ST)
276	587.7400	1173.4654	1173.5318	-0.0664	0	15	1.2	1	DTAEFAISIK + Phospho (ST)
280	587.7600	1173.5054	1173.6159	-0.1104	0	15	1.2	1	LLDTLPLPGR + Phospho (ST)
603	527.7600	1580.2582	1580.6396	-0.3814	0	15	0.55	1	DTGTYYEDFVEGLR + Phospho (Y)
812	683.0400	2046.0982	2046.0220	0.0762	2	15	1.5	1	MASLTVKAYLLGKEAAR + Oxidation (M); Phospho (ST)
82	447.1400	892.2654	892.2729	-0.0074	0	15	1	1	ESSSPAR + 2 Phospho (ST)
813	1024.4300	2046.8454	2046.8619	-0.0165	1	15	1.7	1	FSGLDRCDGGWLADGSVR + Phospho (ST)
549	504.7800	1511.3182	1511.5841	-0.2659	1	15	0.87	1	QGRSSMGTLGLSSGK + 2 Phospho (ST)
377	431.0800	1290.2182	1290.5258	-0.3076	0	15	0.72	1	SESELQLVAR + 2 Phospho (ST)
458	698.3700	1394.7254	1394.5996	0.1258	1	15	1.3	1	GGTERLFTNLK + 2 Phospho (ST)
176	526.8000	1051.5854	1051.5550	0.0305	0	15	1.1	1	YSLTNDIVK
725	587.7600	1760.2582	1759.8886	0.3695	1	15	0.78	1	KNCALIENDQSISR
195	530.7900	1059.5654	1059.5560	0.0094	1	15	1.3	1	LNKDNDTLK
88	453.1300	904.2454	904.2018	0.0437	0	15	1.1	1	DTGASSK + 3 Phospho (ST)
718	587.7300	1760.1682	1759.8886	0.2795	1	15	1.2	1	KNCALIENDQSISR
638	537.2700	1608.7882	1608.6507	0.1375	0	15	1.5	1	SMTAELEELASIR + 2 Phospho (ST)
690	564.7900	1691.3482	1691.7103	-0.3622	1	15	0.82	1	AVIMGAPGSGKGTGSSR + 2 Phospho (ST)
407	445.2000	1332.5782	1332.3747	0.2035	0	15	1.5	1	SDPDACTISK + 3 Phospho (ST)
294	600.2400	1198.4654	1198.6016	-0.1361	1	15	1.4	1	MKLTTFSEATR + Oxidation (M)
932	898.3800	2692.1182	2692.3461	-0.2279	2	14	2.2	1	IMYGDRLSMGTSLVFIMLKCDVK + Oxidation (M)
236	549.8200	1097.6254	1097.6233	0.0021	0	14	1.3	1	LWTAPELLR
557	510.2600	1527.7582	1527.7255	0.0326	0	14	1.7	1	SVMLQIAATELEK + Oxidation (M); Phospho (ST)
959	1118.1100	3351.3082	3351.4771	-0.1689	0	14	2.3	1	QAEGLSSQEQYFLSHTEMPGTLQAADAAIK + 2 Phospho (ST)
246	561.3200	1120.6254	1120.6128	0.0126	0	14	1.3	1	FAIDIGGSLTK
312	409.3000	1224.8782	1224.5995	0.2787	0	14	1.1	1	MVWLVAAMTSR + 2 Oxidation (M)
816	686.3200	2055.9382	2055.9585	-0.0203	0	14	2	1	CWAEDPQERPPFPQIR
481	713.3700	1424.7254	1424.7177	0.0078	1	14	1.6	1	ILIGNFPKSSGR + Phospho (ST)
885	755.9300	2264.7682	2264.7864	-0.0182	0	14	2	1	INSVSSQLSDGPMPPSPSAR + Oxidation (M); 4 Phospho (ST)
519	497.2500	1488.7282	1488.7420	-0.0138	0	14	1.6	1	SLSSPTDNLLEASR
934	703.4000	2707.1782	2707.5135	-0.3353	2	14	2.3	1	IRGIIPETATLFKSALMPAQLFFK + Oxidation (M)
531	749.4100	1496.8054	1496.5677	0.2378	0	14	1.7	1	MDPHDSEVICK + Phospho (ST)
263	581.2100	1160.4054	1160.5785	-0.1731	1	14	1.5	1	RISATAEDGNK
631	801.4400	1600.8654	1600.6982	0.1673	0	14	1.7	1	ETDQSPTISTSSIR + Phospho (ST)
398	443.0200	1326.0382	1325.6890	0.3491	1	14	0.71	1	LQISTLLRMR + Oxidation (M); Phospho (ST)
463	466.2500	1395.7282	1395.6560	0.0721	0	14	1.5	1	TPIQVMMGNVK + 3 Oxidation (M)
380	435.2700	1302.7882	1302.5857	0.2025	0	14	1.6	1	EITELAGYTAR + Phospho (Y)
128	497.7200	993.4254	993.4437	-0.0182	0	14	1.3	1	MESNGEALK + Oxidation (M)
469	468.9900	1403.9482	1403.7231	0.2251	1	14	1.4	1	LVIGRCPSPDYK
366	429.2100	1284.6082	1284.6479	-0.0397	1	14	1.7	1	KQVLESFQVK + Phospho (ST)
881	755.3600	2263.0582	2262.7959	0.2623	0	14	2.3	1	STSLGSSSTPVFMSSPISIR + Oxidation (M); 4 Phospho (ST)
402	444.0900	1329.2482	1329.4993	-0.2511	2	14	1	1	SARVTRSSAR + 3 Phospho (ST)
601	527.3300	1578.9682	1578.7290	0.2391	1	14	1.6	1	GSSEPLPIVDSK + Phospho (ST)
831	702.6400	2104.8982	2104.9330	-0.0349	0	14	2.1	1	LQVELDSVTGLLNQSDSK + 2 Phospho (ST)
167	521.7700	1041.5254	1041.5131	0.0124	0	14	1.4	1	LLESDYFR
262	581.2100	1160.4054	1160.5785	-0.1731	1	14	1.6	1	RISATAEDGNK
960	1145.1000	3432.2782	3432.6081	-0.3299	2	14	2.4	1	EALEKDIRTSYIMDHMISGNGLTVVEEEK + 2 Oxidation (M); Phospho (ST)
230	548.3200	1094.6254	1094.6448	-0.0193	0	14	1.5	1	VGPAVELALAR
359	429.1800	1284.5182	1284.5646	-0.0464	1	14	1.7	1	QSARMTPSVGR + Oxidation (M); Phospho (ST)
671	548.7800	1643.3182	1643.6191	-0.3009	0	14	0.92	1	SPEGTIVSGYDIMK + Phospho (ST); Phospho (Y)
390	440.2400	1317.6982	1317.6078	0.0904	2	14	1.7	1	KFSRSDDELTR + Phospho (ST)
71	443.2400	884.4654	884.4480	0.0174	2	14	1.3	1	KSLKSSR + Phospho (ST)
376	431.0400	1290.0982	1290.4547	-0.3565	0	14	0.39	1	SVIGSSSTVSK + 3 Phospho (ST)

189	530.7700	1059.5254	1059.5131	0.0123	0	14	1.7	1	LLCGGGAADR
316	411.0700	1230.1882	1230.5250	-0.3368	1	14	0.89	1	LERMLGTCTCR + Oxidation (M); Phospho (ST)
931	897.8800	2690.6182	2690.8418	-0.2237	1	14	1.5	1	MSTGAFYISSLLLEKMTSSDK + Oxidation (M); 5 Phospho (ST); Phospho (Y)
369	429.2400	1284.6982	1284.5347	0.1635	1	14	1.8	1	TDTARGSSGEFK + Phospho (ST)
950	1020.4400	3058.2982	3058.3271	-0.0289	0	14	2.7	1	EAMAEQETTTLPPQEDMEPNATPTTPEA + 2 Oxidation (M)
626	532.3000	1593.8782	1593.7688	0.1094	1	14	1.9	1	ASWERGFAHGSVYK
588	524.2300	1569.6682	1569.7110	-0.0428	0	14	1.9	1	ADIGVAMGIAGSDVSK + Phospho (ST)
503	488.7600	1463.2582	1463.6351	-0.3769	0	14	0.92	1	LGEWNNNTAADDK
382	436.9700	1307.8882	1307.6018	0.2863	1	14	1.5	1	IIMRMEYLK + 2 Oxidation (M); Phospho (Y)
941	982.4800	2944.4182	2944.2256	0.1926	0	14	2.8	1	IDGDTIMFSNVQSSSAVYQCNASNK + Phospho (ST)
292	597.2700	1192.5254	1192.5619	-0.0364	1	14	1.6	1	MSSTGGQTPRR + Oxidation (M)
429	680.9800	1359.9454	1359.6306	0.3148	0	14	1.4	1	EEAQQWLWEAK
491	481.2500	1440.7282	1440.4798	0.2483	2	14	1.8	1	VCDSSKSYKSK + 2 Phospho (ST); Phospho (Y)
340	417.5700	1249.6882	1249.6254	0.0628	1	14	1.7	1	KLMVQGHLLTK + Oxidation (M); Phospho (ST)
401	443.2400	1326.6982	1326.4312	0.2669	0	14	1.7	1	MASENTAGSGSR + 2 Phospho (ST)
399	443.1300	1326.3682	1326.6082	-0.2400	1	14	1.7	1	RQSSVFPPSPR + Phospho (ST)
185	530.7500	1059.4854	1059.5825	-0.0971	1	14	1.8	1	LLEGPYRGR
288	592.2300	1182.4454	1182.5087	-0.0632	1	14	1.7	1	TPPKSPATPK + 2 Phospho (ST)
320	411.3300	1230.9682	1230.6598	0.3084	2	14	0.99	1	ERTLLVHRK + Phospho (ST)
372	429.5600	1285.6582	1285.4550	0.2032	0	14	1.8	1	LDSSETTMVK + Oxidation (M); 2 Phospho (ST)
579	521.2900	1560.8482	1560.7429	0.1053	0	13	2	1	MQVMTHFFGAISDK
882	755.3800	2263.1182	2262.9229	0.1953	0	13	2.6	1	CSGNSVAQSPSSSLTATPQK + 2 Phospho (ST)
136	504.7800	1007.5454	1007.4416	0.1039	0	13	1.5	1	QMAAEAMK
471	704.7300	1407.4454	1407.7544	-0.3089	1	13	1.8	1	LLYQCRSLLDK
528	499.2900	1494.8482	1494.7943	0.0539	0	13	2	1	SAQGLVPQKPWER
683	558.7400	1673.1982	1673.5009	-0.3027	0	13	1	1	AGQDSSGSGEPGNSNK + 3 Phospho (ST)
367	429.2100	1284.6082	1284.5646	0.0436	1	13	1.9	1	QSARMTSPSVGR + Oxidation (M); Phospho (ST)
391	440.2500	1317.7282	1317.5911	0.1371	0	13	1.9	1	YGLMPGTSSDFK + Oxidation (M)
576	520.2100	1557.6082	1557.5700	0.0381	1	13	2.2	1	TRNSLSPTMAPK + Oxidation (M); 3 Phospho (ST)
314	410.1400	1227.3982	1227.5297	-0.1316	1	13	1.8	1	SVAMCEMEKK + Oxidation (M)
708	581.2400	1740.6982	1740.7273	-0.0292	1	13	2.2	1	FNSKYNFVGASELR + 2 Phospho (ST)
720	587.7400	1760.1982	1759.8853	0.3129	1	13	1.5	1	GAPEPDTQESRIPVHK
713	587.3100	1758.9082	1758.8203	0.0879	1	13	2.4	1	AKGTGPPGGAADGFHR + Phospho (ST)
8	411.0300	820.0454	820.4443	-0.3988	0	13	1.1	1	LEFAVSR
30	428.7700	855.5254	855.3851	0.1403	0	13	1.5	1	SLSSLNR + Phospho (ST)
476	471.2100	1410.6082	1410.4030	0.2052	0	13	2.1	1	YSSDEDLQSK + 2 Phospho (ST); Phospho (Y)
693	566.6200	1696.8382	1696.9389	-0.1008	2	13	2.3	1	QIRSGFLVLTVRTK + Phospho (ST)
509	491.2400	1470.6982	1470.3560	0.3421	0	13	2.1	1	TSSFVSQSTK + 5 Phospho (ST)
98	461.7600	921.5054	921.4589	0.0465	2	13	1.4	1	AEMKGKDK + Oxidation (M)
692	565.6400	1693.8982	1693.6936	0.2046	1	13	2.4	1	FKCPSSGTPSPTLR + 2 Phospho (ST)
323	413.0700	1236.1882	1236.5516	-0.3634	1	13	1.1	1	KLITSTSAITR + 2 Phospho (ST)
538	755.3600	1508.7054	1508.6548	0.0506	0	13	2.1	1	EFLQYSEGTSLR + Phospho (Y)
794	672.2800	2013.8182	2013.8963	-0.0781	1	13	2.6	1	RAPADPGFPPEQSDMNGR + Oxidation (M)
206	534.7900	1067.5654	1067.3961	0.1693	0	13	1.7	1	EYTDGTFR + Phospho (ST)
39	429.1900	856.3654	856.3440	0.0215	0	13	1.6	1	SQNTAR + Phospho (ST)
118	485.2400	968.4654	968.4481	0.0174	0	13	1.6	1	WGSALLSR + Phospho (ST)
727	587.7900	1760.3482	1760.6552	-0.3070	0	13	1.1	1	MVGDMTGAQAYASTAK + 2 Phospho (ST)
424	453.1300	1256.3682	1256.6227	-0.2546	2	13	2	1	FNSRTYSKFK + Phospho (ST)
332	415.7700	1244.2882	1244.5009	-0.2128	0	13	1.9	1	GTLGGSNCPPR + Phospho (ST)
621	530.7900	1589.3482	1589.6974	-0.3492	1	13	1.5	1	VKELTYQTEEDR + Phospho (ST)
943	991.4000	2971.1782	2971.1206	0.0576	2	13	3	1	SQCRNSPSNLSSSETGSGGGTYRQK + 2 Phospho (ST); Phospho (Y)
245	560.7900	1119.5654	1119.5560	0.0094	1	13	1.9	1	YKDDPVDLR
612	530.7700	1589.2882	1589.5391	-0.2510	0	13	0.99	1	STISIGDMCSLEK + Oxidation (M); 2 Phospho (ST)
96	459.1700	916.3254	916.4476	-0.1222	1	13	1.9	1	YYNAMKK
117	484.7700	967.5254	967.4280	0.0974	0	13	1.7	1	SVSEMANSK + Oxidation (M)
930	893.3100	2676.9082	2677.1568	-0.2487	1	13	2.6	1	GTQSVSGQDGSSQRPTTRIPMSK + Oxidation (M); 2 Phospho (ST)
821	690.8900	2069.6482	2069.7009	-0.0527	0	13	2.8	1	VSTHLTSTTLPCYR + 4 Phospho (ST)
433	455.3400	1362.9982	1362.6506	0.3476	1	13	1.4	1	ETYEMLLKIK + Oxidation (M); Phospho (ST)
945	1001.8900	3002.6482	3002.6001	0.0481	2	13	2.6	1	GRALSLSAAAVVNSAPRPLQPYLRMR + Oxidation (M); Phospho (ST)
879	752.6900	2255.0482	2255.0579	-0.0097	0	13	3.1	1	GDTSVLKPTLMAAVPEIMDR + 2 Oxidation (M); Phospho (ST)
793	1007.3800	2012.7454	2012.9164	-0.1710	2	13	2.9	1	RRSSSDLSDGSDAGLVPSK + Phospho (ST)
260	577.3100	1152.6054	1152.7594	-0.1540	1	13	2	1	LKVGLQVVAVK
825	698.3700	2092.0882	2091.9296	0.1586	1	13	2.7	1	RCNLIDSSGNLASVTYK + Phospho (Y)
24	417.2700	832.5254	832.4443	0.0812	0	13	1.8	1	FTEPALR
365	429.2100	1284.6082	1284.6245	-0.0163	0	13	2.3	1	VAHMESSLGQAR
296	601.2000	1200.3854	1200.4812	-0.0958	0	13	2.1	1	DTEYSHLTR + Phospho (ST)
339	417.2700	1248.7882	1248.4733	0.3148	0	13	2.1	1	AFSMDEPASAK + Oxidation (M); Phospho (ST)
684	560.7900	1679.3482	1678.9842	0.3640	2	13	1.2	1	SSHIVEASIRAKLIR
112	473.7800	945.5454	945.5607	-0.0153	2	13	1.7	1	KKQVSQTK
267	389.2800	1164.8182	1164.7091	0.1091	1	13	1.8	1	IHLSATRLVR
754	607.7200	1820.1382	1819.7599	0.3783	0	13	2.2	1	GGGGGGSGAATSAAATTGGPHR + Phospho (ST)
165	521.7300	1041.4454	1041.4856	-0.0401	2	13	1.9	1	KDESRIK + Phospho (ST)
809	681.2500	2040.7282	2040.7900	-0.0618	0	13	3	1	EVSIITNSLSSSPFIK + 4 Phospho (ST)
193	530.7800	1059.5454	1059.5518	-0.0064	0	13	2.2	1	LLYGLVLR + Phospho (Y)
194	530.7800	1059.5454	1059.5560	-0.0106	1	13	2.2	1	LNKDNDTLK
446	459.1700	1374.4882	1374.4172	0.0709	2	12	2.2	1	RYSGKTTSR + 3 Phospho (ST); Phospho (Y)

952	1024.0500	3069.1282	3069.4115	-0.2833	0	12	3.2	1	ADNPHELLTIQPDLSSTTTTYYQSLCSR + Phospho (ST)
357	429.0600	1284.1582	1284.4789	-0.3207	1	12	0.94	1	KSGNGGTFTEK + 2 Phospho (ST)
462	466.2400	1395.6982	1395.7123	-0.0141	0	12	2.3	1	VVSSVALSATAVGR + Phospho (ST)
762	619.3500	1855.0282	1854.8261	0.2020	1	12	3	1	NIGRDTPTISAGPNSFNK + Phospho (ST)
79	446.2200	890.4254	890.4895	-0.0641	1	12	1.9	1	LMKELNK + Oxidation (M)
303	605.8400	1209.6654	1209.6522	0.0132	0	12	2.1	1	KPPPPAPVIK + Phospho (ST)
456	465.7900	1394.3482	1394.5414	-0.1933	1	12	2.1	1	RMDASASAAIVR + 2 Phospho (ST)
636	536.7900	1607.3482	1607.7419	-0.3937	0	12	1.7	1	ASGYLMDLINFLR + Oxidation (M); Phospho (ST)
37	429.1800	856.3454	856.3440	0.0015	0	12	1.8	1	SQNTAR + Phospho (ST)
49	429.9900	857.9654	858.3524	-0.3870	0	12	0.43	1	YGLDSFK + Phospho (ST)
715	587.7000	1760.0782	1759.9138	0.1644	2	12	2.5	1	EMLAKAIEPQETTKR + Oxidation (M)
498	728.8600	1455.7054	1455.5320	0.1734	0	12	2.6	1	GSNEFLDTAQSK + 2 Phospho (ST)
666	548.3200	1641.9382	1641.9236	0.0146	1	12	2.8	1	TLPIVRDVAMTLAAR + Oxidation (M)
329	415.2900	1242.8482	1242.4992	0.3490	1	12	2	1	EKAYFSGMSK + Oxidation (M); Phospho (ST)
566	517.8200	1550.4382	1550.7576	-0.3195	0	12	2.5	1	GLEVTAYSPLGSSDR
678	556.3000	1665.8782	1665.5743	0.3039	1	12	3	1	SPKEPEGGGMSSDR + Oxidation (M); 2 Phospho (ST)
898	790.3100	2367.9082	2368.0963	-0.1881	0	12	3.1	1	NMYSEPSHLLYLLEHIWK + Oxidation (M); Phospho (ST)
759	609.2800	1824.8182	1824.8014	0.0168	1	12	3.1	1	GGSDSSKDPIDVNIWK
354	428.8600	1283.5582	1283.5799	-0.0217	1	12	2.3	1	YYKGLGTSTSK + Phospho (ST)
410	446.2200	1335.6382	1335.3791	0.2591	1	12	2.5	1	MASKGSPSCR + Oxidation (M); 3 Phospho (ST)
97	459.7800	917.5454	917.2585	0.2869	0	12	2	1	TSETLK + 3 Phospho (ST)
269	587.3100	1172.6054	1172.4897	0.1158	1	12	2.4	1	DKNLMSGAK + Oxidation (M); Phospho (ST)
938	933.9100	2798.7082	2798.3860	0.3222	1	12	2	1	SRPVVLTLMELGPLDSFLRQR + 2 Oxidation (M); Phospho (ST)
564	516.2600	1545.7582	1545.5935	0.1647	2	12	2.8	1	KMSYSGKQSNK + Phospho (ST); Phospho (Y)
11	411.1100	820.2054	820.3480	-0.1426	0	12	1.8	1	TAVDHAK + Phospho (ST)
259	574.7700	1147.5254	1147.4646	0.0609	0	12	2.2	1	SSTSLTSEEK + Phospho (ST)
168	521.7700	1041.5254	1041.4678	0.0576	1	12	2.1	1	QTDLAKMR + Phospho (ST)
905	801.4400	2401.2982	2401.1191	0.1791	1	12	3.2	1	GNVLYGSWFHRAWLSMR + Phospho (ST)
273	587.7300	1173.4454	1173.5617	-0.1163	1	12	2.5	1	KAPLSGICAK + Phospho (ST)
493	482.7600	1445.2582	1445.5953	-0.3371	0	12	1.3	1	TQGLSHASSAISK + 2 Phospho (ST)
328	622.3200	1242.6254	1242.5870	0.0384	1	12	2.4	1	QLSGQRFTAR + Phospho (ST)
888	756.6600	2266.9582	2266.7044	0.2538	0	12	3.5	1	GGYMDGGYSNFMNSSSR + 2 Oxidation (M); 2 Phospho (ST)
264	581.2400	1160.4654	1160.5859	-0.1205	0	12	2.5	1	EALSLNDMR
815	685.6200	2053.8382	2053.8522	-0.0141	0	12	3.3	1	MSNYNVSLVGPAPWGFRR + 2 Phospho (ST)
906	804.3500	2410.0282	2410.0793	-0.0512	1	12	3.9	1	TLIYQMAFAVSTEDVWVR + Oxidation (M); Phospho (ST); Phospho (Y)
237	550.3600	1098.7054	1098.4181	0.2873	2	12	2.1	1	MSKTNKSK + Oxidation (M); 2 Phospho (ST)
728	588.0500	1761.1282	1760.7955	0.3327	1	12	2.4	1	RSSGASGLLTSEHHSR + Phospho (ST)
955	1055.6700	3163.9882	3164.2816	-0.2934	2	12	2.7	1	IVLLMAYSGKGYHGMQRNLGSSQFR + 2 Oxidation (M); 3 Phospho (ST); Phospho (Y)
896	786.9100	2357.7082	2358.0823	-0.3741	1	12	2.8	1	IVAYCSMILFTSLNSERMK + Oxidation (M); Phospho (ST)
697	569.3200	1704.9382	1704.7233	0.2149	2	12	3.1	1	REKLQESTSGTGPR + 2 Phospho (ST)
331	622.9700	1243.9254	1243.5710	0.3544	2	12	1.9	1	GYVAERKGER + Phospho (Y)
85	449.2400	896.4654	896.4481	0.0174	1	12	2.1	1	AQTKLTR + Phospho (ST)
614	530.7800	1589.3182	1589.6943	-0.3761	2	12	1.6	1	KADSKMVCDDVSR + Oxidation (M); Phospho (ST)
423	451.8900	1352.6482	1352.7428	-0.0947	2	12	2.8	1	KEVVLTTIRSK + Phospho (ST)
287	394.2400	1179.6982	1179.5761	0.1220	2	12	2.6	1	TTTRGPPSRK + Phospho (ST)
909	811.7400	2432.1982	2431.9504	0.2478	0	12	3.7	1	TTSYSTAAALPNPFPNPEIR + 4 Phospho (ST)
416	449.2300	1344.6682	1344.6591	0.0091	1	12	2.9	1	AYLTKYHLTR + Phospho (Y)
667	548.3300	1641.9682	1641.8049	0.1633	0	12	3.2	1	QVSLMKPTTIIEK + Oxidation (M); Phospho (ST)
687	562.2900	1683.8482	1683.7829	0.0653	1	12	3.4	1	ISLSKESSNGVNAVNGK + Phospho (ST)
139	506.7400	1011.4654	1011.4209	0.0446	1	12	2.5	1	RSVCADPK + Phospho (ST)
388	440.2100	1317.6082	1317.6785	-0.0703	0	12	2.9	1	ELTPLQAMMLR + Oxidation (M)
138	505.2400	1008.4654	1008.4625	0.0030	1	12	2.2	1	RDYEVDGR
968	1474.7100	4421.1082	4420.7493	0.3589	2	12	3.9	1	EVMTAFRALGRSVDYVQVCDSDTMLDPASSVEMVK + 2 Oxidation (M); 4 Phospho (ST)
77	446.1300	890.2454	890.4718	-0.2263	1	12	2.3	1	IPMSKGMK
648	541.6100	1621.8082	1621.6824	0.1258	0	12	3.1	1	MATPSNLGSSVLASK + 2 Phospho (ST)
324	413.1900	1236.5482	1236.4862	0.0620	0	12	2.6	1	TSLAAPSMTK + 2 Phospho (ST)
787	663.3000	1986.8782	1986.8606	0.0176	0	12	3.5	1	CVVTAEADGTQSEATVNVK + Phospho (ST)
871	747.9900	2240.9482	2241.0089	-0.0608	0	11	4.1	1	SLSTYSAAALQSDLEDSLYK + Phospho (ST)
361	429.1900	1284.5482	1284.4247	0.1235	0	11	3.1	1	AYSNSHMTSK + 2 Phospho (ST)
445	459.0600	1374.1582	1374.5234	-0.3652	2	11	0.9	1	KSSSLKSSPSK + 3 Phospho (ST)
706	581.2100	1740.6082	1740.6696	-0.0614	0	11	3.3	1	ETMMNSVSSGSGSLR + 2 Oxidation (M); Phospho (ST)
48	429.5600	857.1054	857.3354	-0.2300	0	11	2.1	1	ESGVCVK + Phospho (ST)
956	1056.5300	3166.5682	3166.5878	-0.0196	1	11	4.5	1	MTSLLGLAVRLLLFQPTLMFWASQVR + Oxidation (M); 2 Phospho (ST)
90	455.3400	908.6654	908.4062	0.2593	0	11	2.3	1	GDYPQAMK
585	521.7700	1562.2882	1561.9165	0.3717	2	11	1.3	1	AGKRVLIAAHGNSLR
257	573.2300	1144.4454	1144.5013	-0.0558	1	11	2.7	1	SSKSDSVSIK + Phospho (ST)
733	593.2800	1776.8182	1776.8407	-0.0225	0	11	3.7	1	SELVANNVTLPAGEQR + Phospho (ST)
363	429.2000	1284.5782	1284.5347	0.0435	1	11	3.1	1	TDARGSSGEPK + Phospho (ST)
757	911.8700	1821.7254	1821.9295	-0.2040	1	11	3.9	1	VETIGDAYMVASGLPKR + Oxidation (M)
108	470.8100	939.6054	939.3997	0.2057	0	11	2.3	1	CNRPSVK + Phospho (ST)
163	521.2900	1040.5654	1040.5363	0.0292	1	11	2.5	1	AAPRTEPSGR
144	510.7100	1019.4054	1019.5321	-0.1267	1	11	2.5	1	MKGLEAEVK + Oxidation (M)
865	738.9700	2213.8882	2213.9754	-0.0873	0	11	4.2	1	LLTLTFMHSVMSIETAK + 2 Oxidation (M); 2 Phospho (ST)
107	468.9900	935.9654	936.3355	-0.3700	0	11	0.52	1	ATTASQAK + 2 Phospho (ST)
867	745.3500	2233.0282	2233.0513	-0.0231	2	11	4	1	KRPQSMILTAPALLKNMR + 2 Oxidation (M); 2 Phospho (ST)
373	429.9900	1286.9482	1286.6579	0.2903	2	11	2.2	1	GQGAAADGKGKEK



729	588.2700	1761.7882	1761.7498	0.0383	0	11	3.7	1	AEASF <sup>W</sup> TAE <sup>E</sup> VDLSK + Phospho (ST)
580	521.7200	1562.1382	1561.9119	0.2262	0	11	1.8	1	YPTLLEVLN <sup>L</sup> FLK
817	686.3300	2055.9682	2055.8820	0.0862	0	11	4.2	1	ESMLTDLSEHQEVSSIR + Oxidation (M); Phospho (ST)
551	505.2400	1512.6982	1512.7775	-0.0794	1	11	3.4	1	QFLGS <sup>V</sup> PIMVKSK + Phospho (ST)
356	429.0500	1284.1282	1283.7350	0.3932	2	11	1.2	1	KNATAPLKQWK
404	444.8100	1331.4082	1331.7561	-0.3479	2	11	3.4	1	IYSRKTAAP <sup>T</sup> PK
550	505.2400	1512.6982	1512.5391	0.1591	0	11	3.5	1	SMIALMD <sup>T</sup> DGSGR + 2 Phospho (ST)
54	431.1000	860.1854	860.2801	-0.0946	0	11	2.9	1	DDTES <sup>S</sup> K + Phospho (ST)
563	768.8300	1535.6454	1535.8494	-0.2039	1	11	3.6	1	LPTMSSRLV <sup>T</sup> TLR
412	447.0900	1338.2482	1338.6221	-0.3739	1	11	1.8	1	DAFAGKLPEP <sup>S</sup> K + Phospho (ST)
29	428.4200	854.8254	854.4902	0.3353	0	11	0.73	1	TSLFFLK
200	532.2700	1062.5254	1062.5743	-0.0489	0	11	2.7	1	SCILVSISGK
632	534.7800	1601.3182	1601.5776	-0.2595	1	11	1.5	1	STPVKSS <sup>E</sup> GSQOK + 3 Phospho (ST)
849	718.1900	2151.5482	2151.7817	-0.2335	1	11	2.1	1	HESAK <sup>S</sup> QSIND <sup>E</sup> GD <sup>T</sup> CK + 2 Phospho (ST)
42	429.2100	856.4054	856.3440	0.0615	0	11	2.5	1	SQ <sup>T</sup> N <sup>T</sup> AR + Phospho (ST)
318	411.1100	1230.3082	1230.6257	-0.3176	2	11	3	1	AKHYHKEYR
723	587.7500	1760.2282	1759.8886	0.3395	1	11	2.1	1	KNCAILIENDQSISR
707	581.2100	1740.6082	1740.6961	-0.0879	0	11	3.6	1	CQGS <sup>L</sup> HEDVICTSR + Phospho (ST)
752	605.8400	1814.4982	1814.6835	-0.1853	0	11	3.7	1	DAGSVQPSMDLTFGSK + Oxidation (M); 2 Phospho (ST)
823	691.6700	2071.9882	2071.8769	0.1113	1	11	4.2	1	MAEGDELVV <sup>P</sup> ETSDNS <sup>R</sup> K + Oxidation (M); Phospho (ST)
841	707.6800	2120.0182	2119.8023	0.2159	2	11	4.3	1	SCLSTAPFPCGK <sup>T</sup> NKGR + 3 Phospho (ST)
919	846.2900	2535.8482	2535.9051	-0.0569	0	11	4.1	1	YAASNGVQ <sup>M</sup> MTFDS <sup>E</sup> IELMK + 2 Oxidation (M); 3 Phospho (ST)
465	701.9900	1401.9654	1401.6541	0.3113	0	11	2.8	1	TDPATVYSLV <sup>T</sup> R + Phospho (ST)
562	512.2500	1533.7282	1533.8766	-0.1485	1	11	3.8	1	GTSTVSFKLLKPEK
944	1001.8100	3002.4082	3002.3055	0.1027	2	11	5.4	1	MADYVTCES <sup>T</sup> KTKTLPLGTEEDVRVK + 2 Phospho (ST)
146	512.2500	1022.4854	1022.4920	-0.0066	0	11	2.8	1	EFTEAVEAK
224	545.3200	1088.6254	1088.4986	0.1269	0	11	3	1	LEQEQEGEK
642	539.3100	1614.9082	1614.5841	0.3241	1	11	3.7	1	QERGS <sup>G</sup> ISSAIDR + 3 Phospho (ST)
673	550.3600	1648.0582	1647.7423	0.3159	0	11	3.1	1	GLSSK <sup>P</sup> SFF <sup>T</sup> AQLR + 2 Phospho (ST)
282	587.7600	1173.5054	1173.5431	-0.0377	1	11	3.3	1	KEGGT <sup>V</sup> VYGGK + Phospho (ST)
570	519.2400	1554.6982	1554.7943	-0.0962	0	11	3.6	1	GGHFYQV <sup>F</sup> VLADR
355	429.0500	1284.1282	1284.4532	-0.3250	0	11	1.3	1	LMMSELE <sup>T</sup> R + Oxidation (M); 2 Phospho (ST)
438	457.7700	1370.2882	1370.5146	-0.2264	1	11	2.3	1	QSSRQLVAS <sup>R</sup> + 3 Phospho (ST)
651	544.1800	1629.5182	1629.7611	-0.2429	2	11	4	1	SSRVSSLLDEKSDK + Phospho (ST)
321	411.3800	1231.1182	1231.4458	-0.3276	1	11	1.1	1	CTSKGPSA <sup>H</sup> K + 2 Phospho (ST)
634	535.1100	1602.3082	1602.6239	-0.3157	0	11	1.6	1	YEDEHPSYQEVK + Phospho (Y)
59	438.7300	875.4454	875.4534	-0.0080	1	11	2.6	1	LAEKMR
453	464.2200	1389.6382	1389.6095	0.0287	0	11	3.7	1	VVTFPAS <sup>P</sup> VASR + 2 Phospho (ST)
306	607.9300	1213.8454	1213.7506	0.0948	1	11	3	1	VIVIS <sup>R</sup> SL <sup>T</sup> AR
490	719.2500	1436.4854	1436.5609	-0.0755	0	11	3.7	1	HSQGTFTSDY <sup>S</sup> K + Phospho (ST)
21	416.7500	831.4854	831.4702	0.0153	0	11	3	1	TSIEVG <sup>V</sup> K
325	413.2000	1236.5782	1236.6479	-0.0697	0	11	3.2	1	SILN <sup>S</sup> AAVALK + Phospho (ST)
243	557.6500	1113.2854	1113.5141	-0.2286	0	11	3.3	1	LANITVMEK + Oxidation (M); Phospho (ST)
820	688.3200	2061.9382	2061.8458	0.0924	0	11	5	1	MEEEIAALVIDN <sup>S</sup> GMCK + Oxidation (M); Phospho (ST)
724	587.7600	1760.2582	1759.8886	0.3695	1	11	2	1	KNCAILIENDQSISR
677	556.2800	1665.8182	1665.5743	0.2439	0	11	4.5	1	CDLTS <sup>H</sup> SSAQ <sup>T</sup> DGK + 2 Phospho (ST)
393	440.7200	1319.1382	1319.5217	-0.3836	0	11	1.2	1	MSDTPATT <sup>F</sup> GGR + Phospho (ST)
866	739.4200	2215.2382	2214.8729	0.3652	1	11	4.3	1	SIYLTE <sup>M</sup> WMLV <sup>M</sup> YS + 2 Oxidation (M); 2 Phospho (ST)
338	417.2600	1248.7582	1248.6748	0.0834	1	11	3.5	1	TVLSDKSVLCK
68	443.0200	884.0254	884.3939	-0.3685	1	10	1.4	1	IAASKCR + Phospho (ST)
383	438.7300	1313.1682	1312.7827	0.3855	2	10	1.4	1	TRALGTTAKVAPK
172	524.2300	1046.4454	1046.5794	-0.1340	0	10	3.2	1	NIVTVAG <sup>M</sup> VK + Oxidation (M)
36	429.1800	856.3454	856.3552	-0.0098	1	10	2.9	1	RASSGG <sup>S</sup> R + Phospho (ST)
35	429.1200	856.2254	856.2439	-0.0184	0	10	2.9	1	TTT <sup>C</sup> SK + 2 Phospho (ST)
408	446.1300	1335.3682	1335.7220	-0.3539	1	10	3.7	1	LDVKLMY <sup>P</sup> VS <sup>R</sup> + Oxidation (M)
717	587.7300	1760.1682	1759.7947	0.3735	0	10	3.2	1	ISPPPSGVLTPPH <sup>S</sup> SK + 2 Phospho (ST)
160	520.2100	1038.4054	1038.5750	-0.1695	0	10	3.3	1	LIDFGLSFK
352	428.4200	1282.2382	1282.5199	-0.2818	0	10	2.5	1	AHCIQ <sup>M</sup> TSK + Phospho (ST)
623	796.3600	1590.7054	1590.6848	0.0206	1	10	4.2	1	DGKLVS <sup>E</sup> SSDIMSK + Oxidation (M); Phospho (ST)
647	811.7400	1621.4654	1621.5748	-0.1094	1	10	3.8	1	MTESSL <sup>P</sup> SASK <sup>T</sup> K + Oxidation (M); 3 Phospho (ST)
609	530.7500	1589.2282	1589.6075	-0.3793	2	10	1.5	1	RGTEM <sup>V</sup> ITK <sup>S</sup> GR + Oxidation (M); 3 Phospho (ST)
633	534.7900	1601.3482	1601.7255	-0.3774	2	10	2.4	1	FSSLKYTAKEIR + 2 Phospho (ST)
937	911.8700	2732.5882	2732.5136	0.0746	2	10	3.7	1	EQRV <sup>T</sup> GVLIASLVGLSIV <sup>M</sup> GAVLRR + Oxidation (M); Phospho (ST)
880	754.8500	2261.5282	2261.8474	-0.3193	0	10	2.8	1	AQGLSSEASTESNEDSD <sup>H</sup> AR + 2 Phospho (ST)
656	545.3200	1632.9382	1632.6844	0.2537	2	10	4.3	1	DGRASVHSMIT <sup>R</sup> K + Oxidation (M); 2 Phospho (ST)
186	530.7700	1059.5254	1059.5825	-0.0571	1	10	3.8	1	LLEGPRYGR
967	1334.5500	4000.6282	4000.8465	-0.2183	2	10	6.1	1	VKIIFIRNADAVNQMAVCPGSAADPLPSTSES <sup>P</sup> QNK + Oxidation (M); 2 Phospho (ST)
475	470.8100	1409.4082	1409.5395	-0.1313	0	10	4.1	1	MEQPSSSQG <sup>A</sup> HR + Oxidation (M); Phospho (ST)
403	444.1500	1329.4282	1329.5973	-0.1691	2	10	4.1	1	MLSRSGSQG <sup>R</sup> R + Oxidation (M); Phospho (ST)
870	747.3500	2239.0282	2238.9316	0.0966	1	10	5.8	1	MQMEIDQLRGRPP <sup>S</sup> YSR + Oxidation (M); 2 Phospho (ST)
31	428.8600	855.7054	855.3180	0.3874	0	10	2.8	1	TI <sup>T</sup> FSK + 2 Phospho (ST)
784	659.3400	1974.9982	1974.8605	0.1377	2	10	5.6	1	DDESNLVEEKSSMIRK + Oxidation (M); Phospho (ST)
819	687.3200	2058.9382	2058.8994	0.0388	2	10	5.4	1	SAKD <sup>G</sup> ATSEETELEKQK + Phospho (ST)
505	489.7800	1466.3182	1466.5497	-0.2315	0	10	2.7	1	GPFGGAADGEEEPGR + Phospho (ST)
800	675.3800	2023.1182	2022.9776	0.1406	0	10	5.3	1	IVIDFDSINSRP <sup>S</sup> QKPQ + Phospho (ST)
686	561.3400	1680.9982	1680.6408	0.3573	1	10	4.4	1	SDYHCAVWKIDK + Phospho (ST); Phospho (Y)

750	605.3300	1812.9682	1813.0349	-0.0667	1	10	5.3	1	LGALLDSSIAIAEVWKK
918	835.9300	2504.7682	2504.9613	-0.1931	0	10	4.2	1	TTQSVFEYYVDAMELVAR + Oxidation (M); 3 Phospho (ST)
805	680.5600	2038.6582	2038.6508	0.0074	1	10	4.9	1	EATYMLKASSQSEMK + Oxidation (M); 3 Phospho (ST); Phospho (Y)
565	516.3100	1545.9082	1545.6299	0.2782	0	10	4.4	1	CQASTIVSPAPGAK + 2 Phospho (ST)
573	519.3100	1554.9082	1554.7712	0.1370	1	10	4.2	1	MASSSGSKAEFIVGGK
311	409.2200	1224.6382	1224.5863	0.0518	0	10	3.9	1	LLGLGSASGSAGR + Phospho (ST)
275	587.7400	1173.4654	1173.6158	-0.1504	0	10	4.1	1	LEILQIHTK + Phospho (ST)
561	512.2500	1533.7282	1533.6824	0.0457	0	10	4.8	1	VSDHEILAGSVDGR + Phospho (ST)
646	541.3000	1620.8782	1620.6061	0.2721	0	10	4.8	1	GLYTCTIITSPTR + 2 Phospho (ST); Phospho (Y)
277	587.7500	1173.4854	1173.6159	-0.1304	0	10	4.2	1	LLDTLPLPGR + Phospho (ST)
669	548.3600	1642.0582	1641.9236	0.1346	1	10	4.2	1	TLPIVRDVMATLAAR + Oxidation (M)
830	702.3200	2103.9382	2103.9643	-0.0261	1	10	6.2	1	SSLQLDPKEVGGLYVPSR + 2 Phospho (ST)
652	544.8200	1631.4382	1631.7742	-0.3360	1	10	4.3	1	YVVMRAAETQQLK + Oxidation (M); Phospho (ST)
963	1243.9700	3728.8882	3728.6305	0.2576	1	10	5.9	1	HAAWPSEMLDPHIVLLTSDNVIRIYSLR + 3 Phospho (ST); Phospho (Y)
219	544.1800	1086.3454	1086.5409	-0.1955	1	10	4.3	1	RFALMTLR + Phospho (ST)
872	748.4200	2242.2382	2242.1949	0.0433	1	10	5	1	LLFGIAQPQVPPKCLLSGPK + Phospho (ST)
351	428.1000	1281.2782	1281.5003	-0.2221	2	10	3.5	1	ESTKKAESSR + 2 Phospho (ST)
170	521.7800	1041.5454	1041.4896	0.0559	0	10	3.7	1	LLNTSTWK + Phospho (ST)
43	429.2100	856.4054	856.4039	0.0016	0	10	3.4	1	QSPASPDR
229	548.3000	1094.5854	1094.4662	0.1192	0	10	4	1	EMASASSGPSR + Oxidation (M)
448	459.7800	1376.3182	1376.4299	-0.1117	0	10	3.7	1	SQSGSGASEVTK + 3 Phospho (ST)
605	529.1900	1584.5482	1584.6442	-0.0960	2	10	4.6	1	KMTLSLADRCCK + Oxidation (M); 2 Phospho (ST)
628	532.3300	1593.9682	1593.5942	0.3739	2	10	4.5	1	TMRMRSHSSGPR + 2 Oxidation (M); 2 Phospho (ST)
371	429.5500	1285.6282	1285.5075	0.1207	0	10	4.5	1	SSSYSSSSTSVK + Phospho (ST)
489	718.3500	1434.6854	1434.6102	0.0753	0	10	4.2	1	ILAYESMQQK + Oxidation (M); Phospho (ST)
495	484.7700	1451.2882	1451.6156	-0.3274	1	10	2.7	1	EMFNKFKGSTPK + Phospho (ST)
873	748.8800	2243.6182	2243.8564	-0.2382	1	10	3.5	1	SVFNSESGDYMTMGICPR + Oxidation (M); 2 Phospho (ST)
655	544.8500	1631.5282	1631.8357	-0.3076	2	10	5.3	1	TMYTILKEIKQGK + Phospho (ST)
852	722.3300	2163.9682	2163.8771	0.0910	1	10	5.7	1	MQRSIMSFFQPTTEGK + Oxidation (M); 2 Phospho (ST)
542	504.2700	1509.7882	1509.6738	0.1144	1	10	5.2	1	LNQQMAKMDMPR + 3 Oxidation (M)
556	509.9500	1526.8282	1526.7940	0.0342	1	10	4.8	1	APAEAAITKEELER
17	413.1900	824.3654	824.4617	-0.0962	2	10	3.1	1	RQEHKK
540	504.2300	1509.6682	1509.6266	0.0416	0	10	5.3	1	EGLSIFSGLANSR + 2 Phospho (ST)
252	566.6200	1131.2254	1131.4519	-0.2264	0	10	3.6	1	EGITDAATMK + Oxidation (M); Phospho (ST)
665	548.3000	1641.8782	1641.7664	0.1117	2	10	5.6	1	KSGSGFHRLSPEYK + Phospho (ST)
80	447.0600	892.1054	892.3960	-0.2906	1	10	3.3	1	DDQEKMK
777	631.7900	1892.3482	1892.6883	-0.3401	1	10	2.4	1	SLSFPKLSDSDSQK + 3 Phospho (ST)
847	717.5000	2149.4782	2149.8186	-0.3404	1	10	3	1	AAMGTAWRDYMSICGLR + 2 Oxidation (M); 2 Phospho (ST)
272	587.7300	1173.4454	1173.6539	-0.2085	1	9	4.6	1	LLAQKLSMDR
447	688.3200	1374.6254	1374.6068	0.0187	0	9	4.5	1	GSDYEALTLQAK + Phospho (Y)
608	530.7500	1589.2282	1588.8299	0.3982	2	9	1.8	1	MTYIKELGKAIVK + Oxidation (M); Phospho (Y)
625	532.2700	1593.7882	1593.7076	0.0806	1	9	5.3	1	YFQERGLEATATSL + Phospho (ST)
914	821.3700	2461.0882	2461.2252	-0.1370	0	9	6.7	1	NLFVLGFSIFFGLVLPSTLR + Phospho (ST); Phospho (Y)
75	445.1000	888.1854	888.5579	-0.3724	2	9	3.8	1	KRMVLVK + Oxidation (M)
639	537.8100	1610.4082	1610.7197	-0.3116	1	9	3.7	1	SMIPHLESGMKSSK + Phospho (ST)
942	1474.7100	2947.4054	2947.4126	-0.0072	2	9	7	1	CIPVCGVPTPEPFVKVQRIFFGGYSTK + Phospho (ST)
560	511.1900	1530.5482	1530.6612	-0.1130	2	9	4.8	1	MIGDKMHFSLKE + Oxidation (M); Phospho (ST)
953	1024.4300	3070.2682	3070.2317	0.0365	1	9	7.3	1	GRHILVTGESSFVDPEFYSSSIPAR + 3 Phospho (ST); Phospho (Y)
674	550.8300	1649.4682	1649.5317	-0.0636	0	9	4.7	1	SSGGSNMEGESSYAK + 2 Phospho (ST)
663	548.1700	1641.4882	1641.6820	-0.1938	0	9	5.5	1	VMDYIVSTWMSK + Oxidation (M); Phospho (ST)
569	519.2400	1554.6982	1554.7654	-0.0672	1	9	5.1	1	ATTASQAKAVLSAEK + Phospho (ST)
488	718.1900	1434.3654	1434.4272	-0.0617	0	9	3.9	1	GVTSISADTHK + 4 Phospho (ST)
868	1118.1100	2234.2054	2234.0854	0.1201	2	9	6	1	MDASMVPRVPHKGVGVGYGR + Phospho (Y)
457	465.8300	1394.4682	1394.4227	0.0454	0	9	4.9	1	MDVTSSASVR + Oxidation (M); 3 Phospho (ST)
926	873.1100	2616.3082	2616.4897	-0.1816	2	9	6.7	1	MAEGQVLVLGRSHLLGRLAIVAK
712	583.7500	1748.2282	1747.8467	0.3815	1	9	3.1	1	LFMSLLEDTLKQK + Oxidation (M); Phospho (ST)
965	1294.4400	3880.2982	3880.6392	-0.3410	1	9	5	1	TTHAPPGDTLVHCGDVLTYFLSRGSEILK + 4 Phospho (ST); Phospho (Y)
803	679.9800	2036.9182	2036.9134	0.0047	2	9	6.2	1	MEFVMKQALGGATKDMGK + Oxidation (M); Phospho (ST)
515	738.3600	1474.7054	1474.7796	-0.0742	0	9	5.2	1	TLHLLTLNLTEK + Phospho (ST)
385	438.8400	1313.4982	1313.7642	-0.2660	2	9	5.1	1	VHAIFKNVKMK
591	786.9100	1571.8054	1571.8436	-0.0381	0	9	5.7	1	TKPPNLDAALALLR + Phospho (ST)
541	504.2600	1509.7582	1509.6581	0.1000	1	9	5.7	1	NSHMVSAQIRCK + Phospho (ST)
387	659.3400	1316.6654	1316.7564	-0.0910	2	9	4.9	1	VDLPIKSARYR
558	510.3200	1527.9382	1527.6752	0.2629	1	9	5.2	1	RVLGSEGEMDALR + Oxidation (M); Phospho (ST)
751	605.7700	1814.2882	1813.9161	0.3720	2	9	2.7	1	ICIDIPTIYQKSRK + Phospho (ST)
907	807.8900	2420.6482	2421.0434	-0.3953	2	9	3.7	1	RAGNSLAASTAETAGSAQSRAR + 2 Phospho (ST)
961	1179.0700	3534.1882	3534.2612	-0.0730	2	9	6	1	APSIHGSGGGRGVSVSSTRIVSSSGGVVGR + 6 Phospho (ST); Phospho (Y)
688	563.7400	1688.1982	1687.8038	0.3944	2	9	2.7	1	KTSVADSMRLMLEK + Phospho (ST)
827	701.4200	2101.2382	2100.8700	0.3682	2	9	5.2	1	LASTLTITKGASSFKITR + 4 Phospho (ST)
271	587.7000	1173.3854	1173.4195	-0.0341	0	9	5	1	KPEECSGK + Phospho (ST)
335	624.3200	1246.6254	1246.5264	0.0990	2	9	4.7	1	KQKMSSGEEK + Oxidation (M); Phospho (ST)
374	430.1100	1287.3082	1287.5240	-0.2158	0	9	4.5	1	QCSMLDVDLTK + Phospho (ST)
808	1020.9900	2039.9654	2039.9677	-0.0023	2	9	6.6	1	SSPKLEYRVPTDTQSPR + Phospho (Y)
169	521.7700	1041.5254	1041.3239	0.2015	0	9	4.4	1	ATMSSSNGK + 2 Phospho (ST)
72	444.0900	886.1654	886.5058	-0.3404	0	9	4.6	1	MVQLLAGR
201	532.3000	1062.5854	1062.5743	0.0111	0	9	4.4	1	SCILVVISGK



705	577.3300	1728.9682	1728.6926	0.2755	0	9	6	1	TTSGALFPSLVPGSR + 3 Phospho (ST)
89	454.5500	907.0854	907.3201	-0.2347	1	9	3.3	1	RSEASAK + 2 Phospho (ST)
113	478.2700	954.5254	954.4212	0.1043	0	9	4.2	1	AATLEGWK + Phospho (ST)
452	461.7600	1382.2582	1382.5190	-0.2608	1	9	3.1	1	TSMSGPKATSK + 2 Phospho (ST)
864	738.3600	2212.0582	2211.9636	0.0945	2	9	7.2	1	SAVGEQQPAMLTFRSTKEK + Oxidation (M); 2 Phospho (ST)
855	731.3500	2191.0282	2191.1728	-0.1446	1	9	7.2	1	ITGVSTSVALLCFVLYKIK + Phospho (Y)
392	440.2600	1317.7582	1317.4843	0.2739	0	9	5.3	1	GVNQITAMADCR + Oxidation (M); Phospho (ST)
137	505.2400	1008.4654	1008.4625	0.0030	1	9	4.2	1	RDYEVDGR
370	429.3000	1284.8782	1284.5226	0.3556	1	9	4.7	1	KMPVSYLGSK + Oxidation (M); Phospho (ST); Phospho (Y)
413	447.1400	1338.3982	1338.5218	-0.1236	1	9	4.6	1	TSTSDRSANLK + 2 Phospho (ST)
798	674.2900	2019.8482	2019.9036	-0.0554	2	9	7.1	1	SAMRAVAALMTNPEVRK + Oxidation (M); 2 Phospho (ST)
806	1020.4400	2038.8654	2038.8795	-0.0141	2	9	7.1	1	LLQQSMGNETINTERTK + Oxidation (M); 2 Phospho (ST)
685	561.3200	1680.9382	1680.9076	0.0306	2	9	6.2	1	LKAAGSLPGSYILRR + Phospho (ST)
12	411.3300	820.6454	820.3480	0.2974	0	9	3.8	1	TAVDHAK + Phospho (ST)
679	556.3100	1665.9082	1665.5743	0.3339	0	9	6.6	1	CDLTSHSSAQTDGK + 2 Phospho (ST)
28	428.1000	854.1854	854.3687	-0.1833	0	9	3.6	1	ANWLGSK + Phospho (ST)
317	411.0800	1230.2182	1230.5315	-0.3134	1	9	3.4	1	AEMGSKGVTAGK + Oxidation (M); Phospho (ST)
521	497.7200	1490.1382	1489.8252	0.3129	2	9	2.1	1	RELKLGPIYANTTK
611	530.7700	1589.2882	1589.6602	-0.3720	1	9	2.6	1	FSAATYLMDKVGK + Phospho (ST); Phospho (Y)
420	449.9200	1346.7382	1346.3402	0.3979	0	9	5.4	1	EYTMGWMK + 2 Oxidation (M); 2 Phospho (ST); Phospho (Y)
244	558.7400	1115.4654	1115.6411	-0.1756	2	9	5.3	1	LLKRGETSGR
315	411.0300	1230.0682	1230.4467	-0.3785	0	9	1.6	1	GPLMMYISK + 2 Oxidation (M); Phospho (ST); Phospho (Y)
577	520.2400	1557.6982	1557.7010	-0.0029	1	9	6.5	1	EHSKSASLLFGMR + Oxidation (M); Phospho (ST)
459	698.4100	1394.8054	1394.7112	0.0943	0	9	5.6	1	HIFVYVGPLTIR + Phospho (ST)
283	587.7900	1173.5654	1173.6159	-0.0504	0	9	5.5	1	LLDTLPLPLGR + Phospho (ST)
422	675.3800	1348.7454	1348.7827	-0.0372	0	9	5.3	1	LDLLIQATHVAR
779	634.3400	1899.9982	1899.8315	0.1667	2	9	7.2	1	SKMYLDDLSSQSRR + Oxidation (M); Phospho (ST); Phospho (Y)
532	750.8700	1499.7254	1499.6898	0.0356	1	9	5.7	1	HSTGLRSLGATLK + 2 Phospho (ST)
622	530.7900	1589.3482	1589.6769	-0.3287	2	9	4	1	KSQVYTGTRAIRV + 2 Phospho (ST); Phospho (Y)
773	628.3000	1881.8782	1881.8414	0.0368	0	9	7.2	1	MEQYANNLEELVEER + Oxidation (M)
326	619.3500	1236.6854	1236.5516	0.1338	1	9	5.1	1	KLTSITSAITR + 2 Phospho (ST)
41	429.2100	856.4054	856.5031	-0.0977	1	9	4.4	1	VRGWLAR
204	534.3000	1066.5854	1066.3864	0.1990	0	9	4.7	1	QFAMSEMK + Oxidation (M); Phospho (ST)
846	714.8400	2141.4982	2141.8255	-0.3273	1	9	3.8	1	QSIPTMNTARTELDSPR + Oxidation (M); 3 Phospho (ST)
704	577.3100	1728.9082	1728.7325	0.1757	1	9	6.6	1	SRTVLCGTGCGPADK + Phospho (ST)
9	411.0700	820.1254	820.4919	-0.3665	0	9	4.1	1	LHLSPVR
791	1001.8100	2001.6054	2001.6594	-0.0540	2	9	6	1	KTDSCDSGITKSDLR + 4 Phospho (ST)
964	1282.1000	3843.2782	3843.6456	-0.3674	2	9	6.4	1	MASHLELMNGTKMPTGLGTWKSPPGVQTEAVK + 2 Oxidation (M); 4 Phospho (ST)
67	440.7200	879.4254	879.3712	0.0542	1	9	4.2	1	SRGGGGGPR + Phospho (ST)
567	519.0900	1554.2482	1553.9215	0.3267	2	9	2.2	1	MGVDKIIPVDKLVK
700	570.9700	1709.8882	1709.7790	0.1091	0	9	6.9	1	VAAVGQSQYLSSILR + Phospho (ST); Phospho (Y)
730	589.3000	1764.8782	1764.8941	-0.0159	0	9	6.9	1	KPSIAAVGSMADHPNR + Oxidation (M)
348	421.7600	1262.2582	1262.6401	-0.3819	2	9	4.4	1	LMDTNAKGNKR + Oxidation (M)
654	544.8400	1631.4982	1631.7491	-0.2509	0	8	6.6	1	KPHSVANGVPACTSK + Phospho (ST)
940	959.8000	2876.3782	2876.2956	0.0826	1	8	8.3	1	GIKSVTEFNGDTITNTMTLGDIVYK + 2 Phospho (ST)
966	1328.8400	3983.4982	3983.7525	-0.2543	1	8	8.8	1	CQDMTMTLNTAGDDVVVFYNDKASLAHLDDMMK + Oxidation (M); Phospho (ST)
76	445.2000	888.3854	888.4665	-0.0810	2	8	4.8	1	ENDQKKK
322	412.8000	1235.3782	1235.6510	-0.2728	0	8	5.5	1	EKPEAPLAEPR
859	734.8300	2201.4682	2201.8336	-0.3655	1	8	3.7	1	SLSNVGDPEIKISPSDPK + 4 Phospho (ST)
826	698.4100	2092.2082	2092.1238	0.0844	1	8	6.2	1	TILIPEYKVNMSNLSNLK + Oxidation (M)
768	623.2000	1866.5782	1866.7464	-0.1682	1	8	6.6	1	NCISERLPEMADR + Oxidation (M); Phospho (ST)
818	686.6900	2057.0482	2056.9771	0.0710	0	8	7.6	1	THLFQASAAYLPENFIR + Phospho (ST)
618	530.7800	1589.3182	1589.6974	-0.3792	1	8	3.5	1	VKELTYQTEEDR + Phospho (ST)
289	593.2800	1184.5454	1184.4226	0.1229	0	8	5.8	1	YSPSPLSMK + Oxidation (M); 2 Phospho (ST)
415	449.1200	1344.3382	1344.5437	-0.2055	1	8	5.6	1	MSYILKESK + 2 Phospho (ST)
635	804.3500	1606.6854	1606.6003	0.0851	1	8	6.8	1	VLSSMIESETKK + Oxidation (M); 3 Phospho (ST)
212	538.9300	1075.8454	1075.4773	0.3681	1	8	4.1	1	QYSPKMKV + Oxidation (M); Phospho (Y)
274	587.7300	1173.4454	1173.4944	-0.0490	1	8	6	1	LITDPRSGR + 2 Phospho (ST)
613	530.7700	1589.2882	1589.6051	-0.3170	1	8	2.9	1	TDEPAKYTAYSGK + 2 Phospho (ST)
58	436.9700	871.9254	872.3178	-0.3923	0	8	1	1	GHYSSSR + Phospho (Y)
838	705.0800	2112.2182	2111.9896	0.2285	1	8	7.1	1	LIPSWTTVILVKSMLR + Oxidation (M); 3 Phospho (ST)
421	675.0400	1348.0654	1347.7275	0.3379	2	8	2.4	1	VKLQNGPVAKK + Phospho (ST)
951	1020.9900	3059.9482	3060.2758	-0.3277	2	8	6	1	WPLPPGDSKDSLMDGDDTLRLSLK + 4 Phospho (ST)
545	755.9300	1509.8454	1509.7051	0.1404	0	8	7	1	NSVLEIIAFHCK + Phospho (ST)
804	680.3400	2037.9982	2037.8057	0.1925	0	8	8.1	1	YGYVSDPMSLTHLSR + Oxidation (M); Phospho (ST); Phospho (Y)
161	520.2400	1038.4654	1038.4362	0.0293	0	8	5.5	1	CLEMDVEK + Oxidation (M)
455	465.7700	1394.2882	1394.6555	-0.3673	1	8	4.3	1	EINTNQEALKR + Phospho (ST)
761	613.8800	1838.6182	1838.6953	-0.0772	2	8	7.8	1	RLAQCSVVTIRTK + 4 Phospho (ST)
171	522.1500	1042.2854	1042.4220	-0.1365	0	8	5.9	1	ETLAEDASK + Phospho (ST)
696	569.3000	1704.8782	1704.8795	-0.0013	1	8	7.6	1	LADINYEGRLEAVSR
40	429.2000	856.3854	856.3440	0.0415	0	8	4.9	1	SQNTNAR + Phospho (ST)
182	529.1900	1056.3654	1056.4199	-0.0544	0	8	6.1	1	GDMPTLTDK + Phospho (ST)
935	903.9000	2708.6782	2709.0108	-0.3326	0	8	4.9	1	DGSIIVHNLDSNGTFTCDVK + 3 Phospho (ST)
478	472.2800	1413.8182	1413.7575	0.0606	2	8	6.7	1	QKLREIEENQK
884	755.9100	2264.7082	2265.0175	-0.3093	2	8	7.2	1	QEEELKVAHFNAGSGERR + Phospho (ST)
145	511.1900	1020.3654	1020.3623	0.0031	0	8	5.8	1	EPGNMSYK + Oxidation (M); Phospho (ST)

936	911.4300	2731.2682	2731.4843	-0.2162	1	8	8.9	1	MSQLLVPGASVPSPLRPWGPQTKSAK
285	588.2700	1174.5254	1174.6492	-0.1238	1	8	5.9	1	NIKVIMATNR + Oxidation (M)
38	429.1900	856.3654	856.5382	-0.1727	1	8	5	1	ALKIPTSK
406	445.1000	1332.2782	1332.5244	-0.2462	0	8	5	1	MLTTGDHFGMK + Oxidation (M); Phospho (ST)
497	728.8300	1455.6454	1455.7156	-0.0702	1	8	7	1	SGTNDIMLIKLR + Oxidation (M); Phospho (ST)
783	658.3000	1971.8782	1971.9601	-0.0819	2	8	8.7	1	IVDFGMSRKIGNASELR + Phospho (ST)
309	609.6500	1217.2854	1217.6186	-0.3331	2	8	6	1	KATKLIVTGK + 2 Phospho (ST)
672	549.8200	1646.4382	1646.6967	-0.2585	1	8	6.2	1	NTGPWLSSSLRNR + 2 Phospho (ST)
74	444.8100	887.6054	887.4964	0.1091	0	8	6	1	LTDLELQK
553	506.7400	1517.1982	1517.5817	-0.3836	0	8	2.6	1	DAAGASCSSSEAVAR + Phospho (ST)
520	497.7000	1490.0782	1489.7364	0.3418	2	8	3.9	1	TGTGTMALKFVNK + Oxidation (M); Phospho (ST)
900	792.0600	2373.1582	2372.9933	0.1648	2	8	8.9	1	QVSIACTEHNLSKRNEDR + 2 Phospho (ST)
668	548.3400	1641.9982	1641.6744	0.3238	1	8	7.4	1	ANSETSRNQSPESR + Phospho (ST)
916	1243.9700	2485.9254	2485.7523	0.1731	1	8	9.3	1	ALKTTYGTSAPSMTSAALR + 6 Phospho (ST); Phospho (Y)
431	454.5500	1360.6282	1360.4826	0.1456	2	8	6.7	1	KSTPSRGSSSK + 3 Phospho (ST)
913	821.3700	2461.0882	2461.2957	-0.2075	2	8	9.6	1	LSCVSVKFLYRDITWILLR + Phospho (ST)
891	1145.1000	2288.1854	2288.0694	0.1160	2	8	8.7	1	GMIPLKGSTLTSPQDFGKR + Oxidation (M); Phospho (ST)
432	682.4100	1362.8054	1362.6449	0.1605	0	8	6.5	1	SQQLDSNVTMPK + Oxidation (M)
897	789.4300	2365.2682	2365.1525	0.1157	1	8	8	1	FMNPFNLNLYQKLENDPR + Oxidation (M)
34	429.0600	856.1054	856.3440	-0.2385	0	8	4.2	1	SQNTAR + Phospho (ST)
711	583.2600	1746.7582	1746.7462	0.0120	1	8	8.4	1	ESSPFINSTDETEGR + Phospho (ST)
822	691.0000	2069.9782	2069.7785	0.1997	1	8	9.9	1	EVYPESHSEGLEAKAK + 2 Phospho (ST); Phospho (Y)
460	465.9600	1394.8582	1394.7783	0.0799	1	8	6.7	1	HKFNTVPGVQLR
336	416.7500	1247.2282	1247.4948	-0.2667	0	8	4.6	1	RPSGTSATSK + 2 Phospho (ST)
213	539.3100	1076.6054	1076.5536	0.0519	0	8	6.4	1	TEQMISIQK
857	731.8500	2192.5282	2192.7540	-0.2259	0	8	4.3	1	MAVNVYSTSVTSENLSR + Oxidation (M); 4 Phospho (ST)
46	429.3000	856.5854	856.4767	0.1088	0	8	5.4	1	DQVVALGR
346	631.7900	1261.5654	1261.6448	-0.0794	2	8	6.6	1	KGEAMALNEKR + Oxidation (M)
738	898.3800	1794.7454	1794.8706	-0.1251	2	8	8.2	1	FKISDKDASVVGFFR + Phospho (ST)
939	941.9000	2822.6782	2823.0562	-0.3780	0	8	6.7	1	SFSDPALTLGLSTSVSDNNFSSEEPSR + 3 Phospho (ST)
261	577.3300	1152.6454	1152.6380	0.0075	2	8	6.5	1	KTSVLRTLR + Phospho (ST)
381	435.8000	1304.3782	1304.5584	-0.1803	1	8	6.5	1	LTMDRGTGPR + Oxidation (M); Phospho (Y)
319	411.3300	1230.9682	1230.6257	0.3424	2	8	3.8	1	AKHYHKEYR
883	755.9100	2264.7082	2264.9732	-0.2650	1	8	8	1	KATAAEATPGPGVTADAASIVK + 3 Phospho (ST)
691	846.8700	1691.7254	1691.6718	0.0536	1	8	8.8	1	DMQMDKTELGLR + Oxidation (M); Phospho (ST)
572	519.3000	1554.8782	1554.6190	0.2591	0	8	7.5	1	TWQISSMIAGGK + Oxidation (M); 2 Phospho (ST)
291	596.3300	1190.6454	1190.5424	0.1031	0	8	6.7	1	VQMNQSPSVMA
539	755.3800	1508.7454	1508.7534	-0.0080	1	8	7.6	1	MGGELVTGLGALRR + Phospho (ST)
788	663.3400	1986.9982	1986.8345	0.1636	0	8	8.4	1	LDTHPAMVTVLEMGAR + Oxidation (M); 2 Phospho (ST)
266	583.2600	1164.5054	1164.5663	-0.0608	0	8	6.5	1	VVGDVAYDEAK
675	828.3400	1654.6654	1654.8365	-0.1710	2	7	8.9	1	QMIEKTKQLVETK + Phospho (ST)
616	530.7800	1589.3182	1589.5800	-0.2618	0	7	4.3	1	FTSNEYQDALSR + 2 Phospho (ST)
645	540.8600	1619.5582	1619.7491	-0.1909	2	7	9	1	TFNSVSKIDRMSR + Phospho (ST)
583	521.7700	1562.2882	1562.6510	-0.3628	0	7	3.3	1	IDTMGTYHGMLK + Oxidation (M); Phospho (ST)
889	759.3600	2275.0582	2274.9258	0.1323	2	7	11	1	FKSSAQHALNSMRSGSSLK + 3 Phospho (ST)
874	749.4100	2245.2082	2245.0116	0.1966	2	7	9	1	KAENKYAGGNFVCRPTPK + Phospho (ST); Phospho (Y)
537	754.8500	1507.6854	1507.6014	0.0841	0	7	7.9	1	IMPDSNDSPPAER + Phospho (ST)
649	542.7800	1625.3182	1625.5990	-0.2809	0	7	4	1	AVYMPTEGDDSSK + Oxidation (M); Phospho (ST)
45	429.2400	856.4654	856.5130	-0.0476	2	7	5.8	1	ILNKGGAN
395	663.3000	1324.5854	1324.6024	-0.0169	0	7	7.7	1	QSADEVLAASVR + Phospho (ST)
353	428.7700	1283.2882	1283.6136	-0.3254	0	7	5.7	1	HSPGLTPSRPR + Phospho (ST)
50	430.1100	858.2054	858.3558	-0.1504	0	7	7.1	1	MVTIDGK + Oxidation (M); Phospho (ST)
221	544.8400	1087.6654	1087.5808	0.0847	0	7	6.8	1	MAAAVAAAAVR + Oxidation (M)
191	530.7800	1059.5454	1059.5825	-0.0371	1	7	7.3	1	LLEGPRYGR
115	482.7600	963.5054	963.4662	0.0393	0	7	6.1	1	VEFSGNPSK
210	537.2700	1072.5254	1072.4994	0.0260	0	7	7.2	1	TLLGFWEK + Phospho (ST)
890	760.3000	2277.8782	2278.2573	-0.3791	2	7	11	1	RVLALSVETDYTFPLAEKVK
592	525.8100	1574.4082	1574.7834	-0.3753	2	7	7	1	RNMDKAVSVEAER
214	539.3600	1076.7054	1076.6342	0.0712	1	7	7	1	LALKGPDHVK
240	556.3000	1110.5854	1110.5379	0.0475	1	7	6.5	1	KDVDAAFMAK + Oxidation (M)
461	466.0100	1395.0082	1394.6347	0.3734	0	7	5.4	1	ATSELNLEMDTR + Oxidation (M)
599	527.2800	1578.8182	1578.6521	0.1661	0	7	8.4	1	WETFDVSPAVLR + 2 Phospho (ST)
929	1334.5500	2667.0854	2667.1547	-0.0692	2	7	12	1	MLQAARDMVNTADVSSSLDRATR + 2 Phospho (ST)
606	530.3100	1587.9082	1587.6162	0.2920	0	7	8.9	1	GSQSSDSSSLSSHR + Phospho (ST)
26	421.7600	841.5054	841.3674	0.1381	0	7	5.7	1	MSTLSCK + Oxidation (M)
419	674.2900	1346.5654	1346.6343	-0.0689	1	7	7.9	1	HNGEITALKER + Phospho (ST)
302	605.7700	1209.5254	1209.7809	-0.2554	2	7	7.2	1	QIVKLKGPSTK
781	643.3000	1926.8782	1926.9750	-0.0969	2	7	9.5	1	DMGLKVFTNSNIRKPK + Phospho (ST)
18	413.2000	824.3854	824.3616	0.0239	0	7	5.5	1	LTVPCR + Phospho (ST)
181	527.7600	1053.5054	1053.5818	-0.0764	0	7	6.3	1	TIHNISEK
911	818.0800	2451.2182	2450.9853	0.2328	1	7	12	1	NSGAGASGGGSGENGRVVSQDFPK + 2 Phospho (ST)
504	489.7600	1466.2582	1466.5968	-0.3387	1	7	3.7	1	SKLCMGSTIMNSK + 2 Oxidation (M); Phospho (ST)
947	1010.1600	3027.4582	3027.3505	0.1077	2	7	12	1	SLEDALSSDTSGHFKRILISLATGNR + 3 Phospho (ST)
293	599.3300	1196.6454	1196.6166	0.0289	2	7	7	1	ILGSENKKTG + Phospho (ST)
65	440.2500	878.4854	878.3647	0.1207	1	7	6.5	1	EETRHK + Phospho (ST)
310	407.7800	1220.3182	1220.4727	-0.1545	0	7	7.3	1	LSNTELEQK + 2 Phospho (ST)

624	531.3400	1590.9982	1590.7000	0.2981	0	7	7.6	1	DMLTQTVELIER + Phospho (ST)
510	491.2800	1470.8182	1470.5575	0.2607	1	7	8.5	1	RMDVTSSASVR + Oxidation (M); 2 Phospho (ST)
694	849.7500	1697.4854	1697.6786	-0.1932	1	7	7.9	1	FDSWAGMALARASR + 2 Phospho (ST)
610	530.7700	1589.2882	1589.5664	-0.2782	0	7	3.9	1	QASSSDSILSLK + 3 Phospho (ST)
839	705.3100	2112.9082	2112.8467	0.0615	1	7	11	1	ARYQTITLPMEMYK + Oxidation (M); 2 Phospho (ST); Phospho (Y)
47	429.5500	857.0854	857.3103	-0.2248	0	7	5.1	1	GVTDCAR + Phospho (ST)
862	737.8700	2210.5882	2210.9722	-0.3840	0	7	6.6	1	SRPSSDLNNTLQSPAHLK + 2 Phospho (ST)
20	415.7700	829.5254	829.4518	0.0736	2	7	6.7	1	ADKNRAR
620	530.7900	1589.3482	1589.6756	-0.3274	1	7	5.9	1	SASQASKEMEALSR + Oxidation (M); Phospho (ST)
512	736.9900	1471.9654	1471.8762	0.0892	2	7	7.5	1	TIKIWDLASGKLG
769	624.0100	1869.0082	1868.9431	0.0651	2	7	10	1	SCALSNVKKVSLGLGK + Phospho (ST)
789	663.5800	1987.7182	1987.9703	-0.2521	2	7	11	1	WQYIRLMDSVALKGGR + Oxidation (M); Phospho (ST)
451	691.6700	1381.3254	1381.6425	-0.3170	1	7	7.5	1	MLNSLAKSEGPR + Phospho (ST)
904	799.9000	2396.6782	2397.0113	-0.3331	2	7	7.2	1	LREWFMEAKSAEPSNALDK + Oxidation (M); 2 Phospho (ST)
778	632.0700	1893.1882	1892.8418	0.3464	0	7	8.2	1	QQSLWTSPTPGSSGQR + Phospho (ST)
518	745.3500	1488.6854	1488.5939	0.0916	0	7	8.9	1	QLTSDYTIGFGK + Phospho (ST); Phospho (Y)
517	739.4200	1476.8254	1476.8065	0.0189	2	7	9.4	1	SVQETVLPPIKKR + Phospho (ST)
307	608.2900	1214.5654	1214.4114	0.1541	2	7	8.1	1	DKAKSCTVM + Oxidation (M); 2 Phospho (ST)
630	534.3000	1599.8782	1599.8208	0.0574	1	7	9.5	1	MKVFSLIQAVTR + Phospho (ST)
53	431.0800	860.1454	860.5232	-0.3778	1	7	7.8	1	RAPPPVPK
530	748.8800	1495.7454	1495.8470	-0.1016	1	7	9.1	1	VLEDQQNIRLIR
797	1010.4300	2018.8454	2018.8656	-0.0202	0	7	11	1	LSPNASTGLLSCNDSEFK + Phospho (ST)
917	833.8800	2498.6182	2498.7633	-0.1451	0	7	6.7	1	NGSYDIGMAGCVESMSLSNR + 2 Oxidation (M); 3 Phospho (ST); Phospho (Y)
925	1294.4400	2586.8654	2587.2325	-0.3671	2	7	12	1	RKAANVTLLTSLVEGEAVHLAR + 3 Phospho (ST)
434	683.0400	1364.0654	1364.4485	-0.3831	1	7	4.2	1	VSKDSLMSR + Oxidation (M); 3 Phospho (ST)
886	756.3200	2265.9382	2266.0314	-0.0932	0	7	13	1	VAEHHVATLSGHSQEVCGLR + Phospho (ST)
15	412.8000	823.5854	823.5028	0.0826	1	7	6	1	VPSRLPR
581	521.7300	1562.1682	1561.8051	0.3631	2	7	4.1	1	MAKITHVEGKKPK + Oxidation (M); Phospho (ST)
627	532.3100	1593.9082	1593.6139	0.2943	1	7	9.7	1	DMCSWSKGMQIR + Oxidation (M); Phospho (ST)
19	415.2900	828.5654	828.2126	0.3529	0	7	8	1	CSSTSK + 2 Phospho (ST)
439	457.7700	1370.2882	1370.4710	-0.1828	1	7	6	1	SYVASAYRSK + 2 Phospho (ST); Phospho (Y)
716	587.7300	1760.1682	1759.9794	0.1888	1	7	7.7	1	LMISDIKLPDPEVLK
903	796.3600	2386.0582	2385.9902	0.0679	2	7	12	1	ISLVNLAGSERADSSGARGMR + 3 Phospho (ST)
920	846.8700	2537.5882	2537.7725	-0.1843	2	7	6.8	1	LYNTRTMTDDFMSRDK + Oxidation (M); 4 Phospho (ST); Phospho (Y)
801	1015.7900	2029.5654	2029.8842	-0.3187	1	7	7.7	1	MAAHMRMVHIDEEMGPK + 3 Oxidation (M)
802	679.6200	2035.8382	2035.9220	-0.0839	0	7	11	1	MKPLSASQVSVHVGMDDR + Phospho (ST)
853	728.8300	2183.4682	2183.1100	0.3582	2	7	6	1	LTVDCAVRKGLVGPDLHDR + Phospho (ST)
928	1328.8400	2655.6654	2655.3575	0.3080	2	7	7.4	1	AGKTRTFYGLHQDFPSVVVGLGK + Phospho (ST)
278	587.7500	1173.4854	1173.6158	-0.1304	2	7	9	1	KKAPPETPVK + Phospho (ST)
16	413.0700	824.1254	824.2830	-0.1576	1	7	6.2	1	SRSTSK + 2 Phospho (ST)
14	411.3800	820.7454	820.5283	0.2172	0	7	4.6	1	HLIAVLR
32	429.0500	856.0854	856.4055	-0.3201	0	7	5.2	1	TSTVLTR + Phospho (ST)
442	686.3300	1370.6454	1370.6707	-0.0253	1	6	9	1	TFINLREVSGR + Phospho (ST)
796	673.9200	2018.7382	2018.8516	-0.1134	1	6	11	1	IVNYSRASINSLSDK + 2 Phospho (ST); Phospho (Y)
81	447.0900	892.1654	892.3344	-0.1689	0	6	7.3	1	SIVEASK + 2 Phospho (ST)
596	526.8000	1577.3782	1577.6433	-0.2651	0	6	7.8	1	MLTAQDVSYDEAR + Phospho (ST)
954	1055.3300	3162.8782	3162.5475	0.3306	2	6	8.5	1	AISSAVRQAGIAQLYGIAGSTNVTGDQVKK + Phospho (ST); Phospho (Y)
895	786.7000	2357.1682	2357.0876	0.0806	2	6	12	1	CPFDQVTLDLGSGVWGLKK + Phospho (ST)
162	521.0900	1040.1654	1040.5015	-0.3361	1	6	6.2	1	RLSSTLR + Phospho (ST)
749	605.2800	1812.8182	1812.7137	0.1044	0	6	13	1	VHQLDDTASIFSLK + 3 Phospho (ST)
680	557.3000	1668.8782	1668.7049	0.1733	1	6	11	1	GSLLDFLKSEEGSK + 2 Phospho (ST)
414	672.2800	1342.5454	1342.6428	-0.0974	1	6	9.8	1	MVASRAIGSLSR + Oxidation (M); Phospho (ST)
578	521.0900	1560.2482	1560.6425	-0.3943	2	6	3.6	1	RTKGTVTMLVLS + Oxidation (M); 3 Phospho (ST)
810	682.4100	2044.2082	2043.9779	0.2303	1	6	11	1	RSLEAYFAVQPRPSSEK + Phospho (ST)
248	562.2900	1122.5654	1122.3818	0.1837	0	6	8.7	1	MPSSPTSTR + 2 Phospho (ST)
737	897.8800	1793.7454	1793.9900	-0.2446	2	6	11	1	GQRSNYALKILQFTR
786	663.2500	1986.7282	1986.9598	-0.2316	2	6	12	1	NSDRSIPMTVDIFIRLK + Oxidation (M); Phospho (ST)
523	497.7400	1490.1982	1489.8180	0.3801	1	6	3.6	1	FWKEVLEEGLLK
131	499.2900	996.5654	996.5465	0.0190	1	6	8.4	1	GGVGGAGAAPRK
701	573.2300	1716.6682	1716.7940	-0.1258	1	6	12	1	IGSSMKSGVEVMAIGR + Oxidation (M); Phospho (ST)
73	444.1500	886.2854	886.3620	-0.0765	0	6	8.8	1	LPTMSSR + Oxidation (M); Phospho (ST)
33	429.0500	856.0854	856.3262	-0.2408	0	6	5.7	1	MDRPSR + Oxidation (M); Phospho (ST)
379	432.2600	1293.7582	1293.5554	0.2028	1	6	10	1	TGAACDLDCRR
333	623.2000	1244.3854	1244.5494	-0.1640	0	6	11	1	TGGGGSSGGGAGPGGR
734	893.3100	1784.6054	1784.8934	-0.2880	2	6	12	1	SSAAAKYLTNRGLTPR + Phospho (ST)
586	521.7800	1562.3182	1562.6241	-0.3059	1	6	5.7	1	VKVSEAGYVIMR + 2 Phospho (ST)
949	1015.7900	3044.3482	3044.2902	0.0580	1	6	16	1	TCLDSFGVSRSLGAVWTMAGSPCTICK + Oxidation (M); Phospho (ST)
957	1057.9700	3170.8882	3171.2715	-0.3833	2	6	9.8	1	TYGLTKLPLTDNQDFPSSPNQIKEMK + 3 Phospho (ST); Phospho (Y)
552	759.3600	1516.7054	1516.8072	-0.1017	0	6	11	1	MGLPAGQVPSLLYR + Oxidation (M)
780	959.8000	1917.5854	1917.8598	-0.2744	2	6	12	1	STSQLSQTESGHKKLK + 2 Phospho (ST)
55	432.2600	862.5054	862.5276	-0.0222	0	6	8.4	1	TLFLITR
856	731.8500	2192.5282	2192.9118	-0.3836	0	6	6.4	1	SIVSELAGLLSAMEYVQK + Oxidation (M); 2 Phospho (ST); Phospho (Y)
66	440.2600	878.5054	878.3916	0.1138	0	6	8.4	1	DAMNLSGR + Oxidation (M)
598	790.3100	1578.6054	1578.7824	-0.1770	0	6	11	1	LVTMLSAGSSSHFAR + Oxidation (M)
782	982.4800	1962.9454	1962.7770	0.1684	0	6	13	1	YGNMTQDHRVHLLTK + Oxidation (M); Phospho (ST); Phospho (Y)
428	680.5600	1359.1054	1359.4546	-0.3492	0	6	3.6	1	DNSTMGVYMAK + 2 Oxidation (M); Phospho (ST)

726	587.7600	1760.2582	1759.8886	0.3695	1	6	6.1	1	KNCAILLIENDQSISR
536	752.6900	1503.3654	1503.5354	-0.1699	0	6	9.2	1	YDGS <del>DLV</del> AMTTR + Oxidation (M); Phospho (ST); Phospho (Y)
764	622.3200	1863.9382	1863.5867	0.3515	2	6	14	1	RQMKETFCMSSMK + 2 Oxidation (M); 3 Phospho (ST)
615	530.7800	1589.3182	1589.7014	-0.3833	0	6	6.3	1	SLDISVWDYDIGK + Phospho (ST)
508	735.8100	1469.6054	1469.5299	0.0756	0	6	12	1	SMWSVNGDSISK + 2 Phospho (ST)
526	747.9900	1493.9654	1493.6416	0.3239	0	6	10	1	STVTVN <del>IT</del> DLGSK + 2 Phospho (ST)
435	685.3500	1368.6854	1368.6820	0.0035	2	6	11	1	SVGEMASNKFKR + Oxidation (M)
664	548.3000	1641.8782	1641.8015	0.0767	0	6	13	1	LTVGDPV <del>IT</del> VEYITR + Phospho (ST)
747	603.0600	1806.1582	1805.8049	0.3533	1	6	9	1	YHTVGRASGLLMGLR + Oxidation (M); 2 Phospho (ST)
343	628.9800	1255.9454	1255.5697	0.3757	0	6	7.1	1	DSDIVGAAISTK + Phospho (ST)
511	491.2900	1470.8482	1470.5251	0.3230	1	6	11	1	MSYSGKQTHEK + Oxidation (M); 2 Phospho (ST)
554	760.3000	1518.5854	1518.8268	-0.2414	2	6	12	1	YKPFKGIKYMTK + Oxidation (M)
948	1010.4300	3028.2682	3028.4841	-0.2160	1	6	16	1	GVTPDSAEMLPPNFRSAAAGALGSPGLPLR + Phospho (ST)
617	530.7800	1589.3182	1589.6051	-0.2870	1	6	6.5	1	TDEPAKYTAYS <del>SG</del> K + 2 Phospho (ST)
102	465.8300	929.6454	929.4025	0.2429	0	6	9.3	1	HIEDGMGR + Oxidation (M)
643	539.3600	1615.0582	1614.7403	0.3179	0	6	10	1	QAPTPSQSPAAQGP <del>AK</del> + Phospho (ST)
912	821.3000	2460.8782	2461.0369	-0.1587	1	6	15	1	RFYPTV <del>IT</del> VIADDSKPER + 2 Phospho (ST); Phospho (Y)
265	582.7800	1163.5454	1163.4868	0.0586	0	6	11	1	LLGMSFMN <del>R</del> + Oxidation (M); Phospho (ST)
84	449.2300	896.4454	896.5484	-0.1029	2	6	8.6	1	KFKSFLK
405	667.0800	1332.1454	1331.7707	0.3747	2	6	3.6	1	MVAIVGLSRKSR + Oxidation (M)
670	548.3800	1642.1182	1642.4745	-0.3563	1	6	9.1	1	ASTASRVHSTAR + 5 Phospho (ST)
765	622.6100	1864.8082	1864.6570	0.1512	0	6	14	1	DTSAPANFASSTLEK + 3 Phospho (ST)
878	752.3800	2254.1182	2254.0146	0.1036	2	6	15	1	ISAYMKSSRYLSTIPFSK + Oxidation (M); 2 Phospho (ST)
304	607.3000	1212.5854	1212.6575	-0.0720	1	6	11	1	NRS <del>G</del> QLPVQSK
198	530.7900	1059.5654	1059.5634	0.0020	1	6	11	1	KVPEALEMK + Oxidation (M)
400	443.1900	1326.5482	1326.3220	0.2262	0	5	11	1	ATT <del>D</del> NSPSSK + 4 Phospho (ST)
44	429.2200	856.4254	856.3552	0.0702	1	5	9.2	1	RASSGGSR + Phospho (ST)
899	790.8300	2369.4682	2369.2607	0.2075	1	5	10	1	ATDLAKLLPVSLDSSPTFVPLR + Phospho (ST)
644	809.4800	1616.9454	1616.8110	0.1345	0	5	13	1	AISALVPQGGFVLCR + Phospho (ST)
863	738.3500	2212.0282	2212.1350	-0.1069	2	5	16	1	HLIPAANTGESKVFY <del>Y</del> KMK + Oxidation (M)
284	588.0500	1174.0854	1173.7373	0.3482	0	5	3.4	1	IFLTVIDLIK
584	521.7700	1562.2882	1562.6432	-0.3551	1	5	5.3	1	LRFFS <del>G</del> THGPER + 2 Phospho (ST)
477	707.6800	1413.3454	1413.6346	-0.2892	0	5	10	1	TFQYIVSGIVK + Phospho (ST); Phospho (Y)
699	855.0800	1708.1454	1707.8726	0.2728	2	5	10	1	GGDSITAMEARAFVRK
703	574.7700	1721.2882	1721.6852	-0.3970	0	5	5.5	1	GVYSTQVGFAGG <del>Y</del> TR + Phospho (ST); Phospho (Y)
748	604.2600	1809.7582	1809.8315	-0.0733	1	5	15	1	SQYSKVLNLT <del>Q</del> LK + 2 Phospho (ST)
62	440.2100	878.4054	878.3899	0.0156	1	5	10	1	KNFTDPK + Phospho (ST)
211	537.8100	1073.6054	1073.4026	0.2028	0	5	11	1	SGETDSVSGR + Phospho (ST)
746	903.9000	1805.7854	1805.7072	0.0782	1	5	15	1	SIRSMLATSS <del>Q</del> E <del>L</del> K + Oxidation (M); 3 Phospho (ST)
922	854.3800	2560.1182	2560.2877	-0.1695	1	5	18	1	LTADPDSEVATTSLRVSLMCPLGK
140	508.2600	1014.5054	1014.5022	0.0033	0	5	12	1	EAFVTSAYK
602	790.8300	1579.6454	1579.6742	-0.0287	1	5	14	1	VADFGLARDMYDK + Phospho (Y)
814	685.3500	2053.0282	2052.9646	0.0635	2	5	16	1	GTLVQTGTGASGSF <del>K</del> L <del>N</del> K + 2 Phospho (ST)
753	607.3000	1818.8782	1818.6450	0.2332	1	5	15	1	NSSLGTRATDMPWK + Oxidation (M); 3 Phospho (ST)
180	527.3300	1052.6454	1052.4920	0.1534	0	5	11	1	SMSASSGLSAR
575	519.7800	1556.3182	1556.6772	-0.3590	0	5	8.1	1	DLSDLISEMEMMK + Oxidation (M)
933	901.4100	2701.2082	2701.0356	0.1726	1	5	19	1	QGCTVTVSDLYTMNFEPRATR + Oxidation (M); 2 Phospho (ST); Phospho (Y)
175	526.7700	1051.5254	1051.3755	0.1499	0	5	10	1	MMSETLNF + Phospho (ST)
105	466.2400	930.4654	930.5022	-0.0367	1	5	11	1	DIKDALEK
962	1192.0300	3573.0682	3573.2005	-0.1323	0	5	12	1	WTTAPKPTMADELYQDYP <del>I</del> HSVEDR + Oxidation (M); 4 Phospho (ST); 2 Phospho (Y)
199	531.3400	1060.6654	1060.4664	0.1990	0	5	12	1	EPPPS <del>F</del> PMVK + Phospho (ST)
418	673.9200	1345.8254	1345.5187	0.3067	0	5	14	1	ESPSYDTPSQR + Phospho (ST)
249	563.7400	1125.4654	1125.5617	-0.0962	1	5	11	1	MGLKLLER + Phospho (ST)
330	622.6100	1243.2054	1243.5920	-0.3866	0	5	7.5	1	MPWFHGNISR
844	714.3300	2139.9682	2139.9023	0.0659	0	5	18	1	MLQGTGCGAPIDPTIYLSK + Oxidation (M); 2 Phospho (ST)
741	600.7900	1799.3482	1799.7211	-0.3729	1	5	6.7	1	GKGHSTSTDDTSDPTSK + Phospho (ST)
148	516.2600	1030.5054	1030.4372	0.0682	0	5	12	1	GYIGEGDIK + Phospho (Y)
887	756.3600	2266.0582	2265.9911	0.0671	0	5	19	1	GSLPPPLITH <del>TA</del> ATPMPTPK + 3 Phospho (ST)
840	1057.9700	2113.9254	2114.1744	-0.2489	2	5	19	1	TVIIGKKAAPGYHMAK <del>MI</del> IK + Oxidation (M)
227	548.1700	1094.3254	1094.5985	-0.2731	0	5	12	1	HSVHTLVFR
411	447.0600	1338.1582	1337.8143	0.3439	2	5	4.3	1	LHGKSVRITLSK
770	624.3200	1869.9382	1870.1114	-0.1732	1	5	17	1	MDSKWA <del>AV</del> LLLLLLLR + Oxidation (M)
258	574.3100	1146.6054	1146.6913	-0.0859	1	5	12	1	LARTLFLWK
658	545.7700	1634.2882	1634.6379	-0.3497	1	5	5.8	1	GDFSSGKSSFSITR + 2 Phospho (ST)
710	582.7800	1745.3182	1745.6174	-0.2992	0	5	6.5	1	YMPPESGISSLGR + Oxidation (M); 2 Phospho (ST); Phospho (Y)
235	548.7800	1095.5454	1095.5842	-0.0387	1	5	11	1	TVPRVF <del>I</del> GK + Phospho (ST)
714	587.6100	1759.8082	1759.8196	-0.0114	0	5	17	1	VYHWP <del>G</del> HSTTVLQR + Phospho (ST)
858	732.2600	2193.7582	2193.7762	-0.0180	0	5	19	1	GSMISVMSSEGNVDS <del>P</del> VSR + Oxidation (M); 3 Phospho (ST)
179	527.2900	1052.5654	1052.5542	0.0112	0	5	12	1	YISFLPGEK
386	658.3000	1314.5854	1314.6333	-0.0479	1	4	15	1	LSIVGDGKYGAR + Phospho (ST)
440	457.7800	1370.3182	1370.5577	-0.2396	1	4	11	1	EMSVYEAYRK + Oxidation (M); Phospho (ST)
845	714.3700	2140.0882	2139.9378	0.1504	1	4	19	1	DAKEYAESIGALVVETS <del>AK</del> + Phospho (ST); Phospho (Y)
785	991.4000	1980.7854	1980.9686	-0.1832	1	4	19	1	VTIKPAPE <del>T</del> AKKPQDAK + 2 Phospho (ST)
443	686.6900	1371.3654	1371.6118	-0.2464	2	4	14	1	RFMRSDHLSK + Oxidation (M); Phospho (ST)
63	440.2300	878.4454	878.4359	0.0096	0	4	12	1	NAIHPGDR
135	504.2700	1006.5254	1006.4390	0.0865	0	4	12	1	VVCDENGSK

486	717.5000	1432.9854	1432.6000	0.3854	0	4	12	1	AQLTDLLEQR + 2 Phospho (ST)
86	449.9200	897.8254	897.4920	0.3335	1	4	5.6	1	KAPTPEK
480	473.7800	1418.3182	1418.6847	-0.3665	1	4	9.6	1	KFLSPYDLTQK + Phospho (ST)
99	464.2200	926.4254	926.5800	-0.1546	1	4	12	1	KEPLISK
502	732.2600	1462.5054	1462.8065	-0.3010	1	4	16	1	AALDKATVLLSMK + Oxidation (M)
902	795.3300	2382.9682	2382.9718	-0.0036	0	4	23	1	FMGPASGMNMSGGLGSLGDSK + Oxidation (M); Phospho (ST)
141	509.9500	1017.8854	1017.5372	0.3482	1	4	7.4	1	LSVHINKK + Phospho (ST)
142	510.2600	1018.5054	1018.5746	-0.0691	1	4	13	1	FLPLARMR + Oxidation (M)
104	466.0100	930.0054	930.3630	-0.3576	0	4	3.9	1	GSNSSLMR + Phospho (ST)
790	667.0800	1998.2182	1997.8869	0.3313	0	4	15	1	CVIHHTLATAAVSSMK + 2 Phospho (ST)
430	681.2500	1360.4854	1360.6695	-0.1840	2	4	15	1	NNDVEQKGKSSR
514	738.3500	1474.6854	1474.7490	-0.0635	0	4	16	1	NILMQLYEPNPK + Oxidation (M)
597	526.8400	1577.4982	1577.7279	-0.2297	1	4	18	1	IYVYSFPDNPVK + Phospho (Y)
659	821.3000	1640.5854	1640.4950	0.0904	0	4	17	1	AMGDDESGSDGSPK + 2 Phospho (ST)
524	746.8800	1491.7454	1491.5911	0.1544	0	4	16	1	YGPVFSFTMVVK + Phospho (ST); Phospho (Y)
166	521.7500	1041.4854	1041.3933	0.0921	0	4	13	1	ASPETIHK + 2 Phospho (ST)
122	490.2900	978.5654	978.3787	0.1868	0	4	14	1	MGDMGDPFK + 2 Oxidation (M)
444	687.3200	1372.6254	1372.7714	-0.1460	1	4	18	1	QKGEYLPQLQK
450	691.0000	1379.9854	1379.5904	0.3951	1	4	12	1	LKATVTPSPVK + 3 Phospho (ST)
582	521.7500	1562.2282	1562.4897	-0.2616	0	4	5.9	1	EVSTVQVYYR + 2 Phospho (ST); 2 Phospho (Y)
522	497.7300	1490.1682	1490.5319	-0.3637	1	4	5.8	1	SCGTKYPTPLK + 3 Phospho (ST)
70	443.1900	884.3654	884.3732	-0.0077	1	4	13	1	MGSKSNVM + 2 Oxidation (M)
877	752.3500	2254.0282	2254.0576	-0.0294	2	4	23	1	DDEENYLDLFSHKNMKLK + Oxidation (M)
327	622.0200	1242.0254	1241.6533	0.3722	1	4	6.4	1	SLNLTAFRK + Phospho (ST)
441	686.3200	1370.6254	1370.7881	-0.1627	2	4	17	1	LESIRLKQEQK
834	704.3500	2110.0282	2110.0000	0.0282	2	4	23	1	QKDYETATLSEIKALKK + Phospho (ST); Phospho (Y)
143	510.3200	1018.6254	1018.5369	0.0886	0	4	14	1	ADILEMTVK
600	527.2900	1578.8482	1578.8803	-0.0322	1	4	19	1	MAVDITLLFRASVK + Oxidation (M)
349	634.3400	1266.6654	1266.6122	0.0533	0	4	17	1	SLLAQSLNR + Phospho (ST)
661	821.3700	1640.7254	1640.7196	0.0059	0	4	20	1	GQNEPDGSLLTQFR + Phospho (ST)
13	411.3300	820.6454	820.4589	0.1866	2	4	12	1	MAATKRK + Oxidation (M)
110	472.2800	942.5454	942.4018	0.1437	0	4	16	1	YWSGGMGR
228	548.3000	1094.5854	1094.4982	0.0872	1	4	16	1	RGVGGSQAAGR + Phospho (ST)
722	587.7500	1760.2282	1759.8770	0.3511	1	4	12	1	TAADHQITLRAWVK + Phospho (ST)
347	632.0700	1262.1254	1262.5093	-0.3839	0	4	5.7	1	SYSDMMNLMR + Oxidation (M)
178	527.2800	1052.5454	1052.4774	0.0680	0	3	16	1	FTSDLEGR
56	435.2700	868.5254	868.3804	0.1451	0	3	15	1	TQSIQGR + Phospho (ST)
629	799.9000	1597.7854	1597.8494	-0.0639	2	3	22	1	TKTWRPSIVFKR + Phospho (ST)
57	435.8000	869.5854	869.5559	0.0296	2	3	14	1	VAKQIR
133	504.2300	1006.4454	1006.3687	0.0768	0	3	15	1	MMEIMTR + Oxidation (M); Phospho (ST)
487	717.7800	1433.5454	1433.5373	0.0082	0	3	21	1	QVMFMSATLSK + 2 Oxidation (M); 2 Phospho (ST)
305	607.7200	1213.4254	1213.5550	-0.1295	0	3	18	1	FFSSMPQGSAR
492	722.3300	1442.6454	1442.7306	-0.0852	1	3	20	1	YLYRNSNWISK
217	541.6100	1081.2054	1081.4863	-0.2808	0	3	14	1	SMPEGFGVSR + Oxidation (M)
64	440.2400	878.4654	878.4280	0.0375	1	3	16	1	DCLTKSR
268	583.7500	1165.4854	1165.5550	-0.0695	1	3	17	1	MSTPGKENFR
832	1055.3000	2108.5854	2108.9674	-0.3819	1	3	16	1	HLVENMSSGTADALGLSR + Oxidation (M); Phospho (ST)
698	854.3800	1706.7454	1706.8426	-0.0972	2	3	23	1	KETHNAAIIMKIDK + Oxidation (M); Phospho (ST)
202	532.3100	1062.6054	1062.4720	0.1335	2	3	17	1	GGAHRDRSK + Phospho (ST)
484	714.8400	1427.6654	1427.7343	-0.0689	1	3	22	1	GSKSLCLPAWGPR
69	443.1300	884.2454	884.3641	-0.1186	1	3	15	1	DDKAQTK + Phospho (ST)
247	561.3400	1120.6654	1120.6005	0.0649	0	3	18	1	VLQSLALAIR + Phospho (ST)
109	471.2100	940.4054	940.3456	0.0598	2	3	18	1	KAGKASGY + Phospho (ST); Phospho (Y)
173	525.8100	1049.6054	1049.4778	0.1277	0	3	18	1	TDPNGDIYR
709	873.1100	1744.2054	1743.8412	0.3642	2	3	14	1	MLDLNKAKTLAQR + 2 Oxidation (M); Phospho (ST)
595	526.7700	1577.2882	1577.6041	-0.3160	1	3	10	1	LQSGSSASVYRVR + 3 Phospho (ST)
253	567.9800	1133.9454	1133.5824	0.3630	0	3	8.8	1	MALIMEPVSK + Oxidation (M)
860	735.8100	2204.4082	2204.7928	-0.3846	1	3	16	1	YGPKGYYGQGAGTSLMDK + Oxidation (M); 3 Phospho (Y)
472	704.7300	1407.4454	1407.7487	-0.3032	2	3	22	1	VGGRLEDTKLIK + Phospho (ST)
150	517.8200	1033.6254	1033.4594	0.1661	0	3	19	1	GDILHSGAGK + Phospho (ST)
467	702.3200	1402.6254	1402.6051	0.0204	1	3	21	1	KEEDVMASGTIK + Oxidation (M); Phospho (ST)
132	499.3500	996.6854	996.4502	0.2352	1	3	19	1	GLRGSGGTR + Phospho (ST)
869	746.8800	2237.6182	2237.9283	-0.3101	1	3	20	1	VDTKSFLAFFDSSIDGSR + 2 Phospho (ST)
425	679.6200	1357.2254	1357.5883	-0.3629	1	3	12	1	LRGESMAGAAGMK + Phospho (ST)
87	451.8900	901.7654	901.4505	0.3150	0	3	18	1	EGEIQAGAK
111	473.3600	944.7054	944.4828	0.2226	0	3	19	1	GSHVFTAAR
474	705.3100	1408.6054	1408.7272	-0.1217	1	2	24	1	SYKAVLEDPMLK + Oxidation (M)
83	449.1200	896.2254	896.4716	-0.2461	1	2	18	1	SKLAPSSAH
308	609.2800	1216.5454	1216.6485	-0.1031	0	2	24	1	AGLLGLLEEMR + Oxidation (M)
500	731.8500	1461.6854	1461.8490	-0.1635	2	2	27	1	VLKGSGFGKVMAR
501	731.8500	1461.6854	1461.6378	0.0476	1	2	27	1	KPVSRLDGLTSSR + 2 Phospho (ST)
286	589.3000	1176.5854	1176.5185	0.0670	1	2	22	1	MKVTVCFGR + Phospho (ST)
344	629.0000	1255.9854	1255.7500	0.2355	1	2	12	1	VTVKVVAANDLK
256	570.9700	1139.9254	1139.6411	0.2844	1	2	13	1	EAPLRVAQTR
95	459.0600	916.1054	916.2803	-0.1748	0	2	20	1	VYTCSK + 2 Phospho (ST)
590	786.7300	1571.4454	1571.6131	-0.1676	1	2	28	1	TTFSSVSRSGGGGR + 2 Phospho (ST)

342	628.3000	1254.5854	1254.6333	-0.0478	1	2	26	1	RSSILTETLR + Phospho (ST)
397	663.5800	1325.1454	1325.5378	-0.3923	1	2	9.9	1	VTSTGTSTRR + 2 Phospho (ST)
546	756.3200	1510.6254	1510.4528	0.1727	1	2	30	1	DKGSPHSEGS DR + 3 Phospho (ST)
301	605.3300	1208.6454	1208.5104	0.1350	1	2	27	1	LRVYGTGQR + Phospho (ST); Phospho (Y)
547	756.3600	1510.7054	1510.6105	0.0949	1	2	30	1	AYEILSNEEKR + Phospho (ST); Phospho (Y)
470	704.3500	1406.6854	1406.7759	-0.0904	2	1	29	1	QLQLRATIRTK + Phospho (ST)
345	629.0100	1256.0054	1255.6061	0.3994	1	1	13	1	ASLSKDSVLEK + Phospho (ST)
299	604.2600	1206.5054	1206.4491	0.0564	0	1	29	1	VCMYFTYK + Oxidation (M); Phospho (Y)
215	540.8600	1079.7054	1079.5355	0.1700	0	1	25	1	AAEMMASLLK + Oxidation (M)
657	818.0800	1634.1454	1633.7461	0.3994	1	1	18	1	NDIGATVHELSDK + Phospho (ST)
183	530.3100	1058.6054	1058.4870	0.1185	2	1	32	1	SRITKSGSR + Phospho (ST)
607	795.3300	1588.6454	1588.6106	0.0348	1	1	36	1	SLPDSGRTSPCPR + 2 Phospho (ST)
207	535.1100	1068.2054	1068.4563	-0.2508	0	1	25	1	SPTPVIMEK + Phospho (ST)
251	565.6400	1129.2654	1129.5380	-0.2725	1	1	31	1	TSASGKSATLK + Phospho (ST)
731	884.1000	1766.1854	1765.8417	0.3438	0	1	23	1	ILPQPQAPVSTIVAK + 2 Phospho (ST)
689	846.2900	1690.5654	1690.7650	-0.1996	0	1	38	1	NHQYSLQILAHCK + Phospho (ST)
653	544.8400	1631.4982	1631.6957	-0.1976	1	1	40	1	STTPVSKSNTPTPR + 2 Phospho (ST)
300	605.2800	1208.5454	1208.6917	-0.1463	2	1	34	1	KSYVKVFNP
833	1055.6700	2109.3254	2108.9674	0.3581	1	1	27	1	HLRVENMSGTADALGLSR + Oxidation (M); Phospho (ST)
174	526.6800	1051.3454	1051.4968	-0.1513	1	0	30	1	MRDLSSEK
7	410.1400	818.2654	818.4208	-0.1553	0	0	29	1	MDPIISK + Oxidation (M)
437	685.6200	1369.2254	1369.5035	-0.2780	0	0	20	1	GETEHDSAESTK + Phospho (ST)
589	786.4000	1570.7854	1570.6140	0.1715	0	0	43	1	VEDSGIYTCVIR + Phospho (ST); Phospho (Y)
499	731.3500	1460.6854	1460.8425	-0.1571	1	0	42	1	QFLGVVPIMVKSK + Oxidation (M)
494	484.7300	1451.1682	1451.5670	-0.3988	0	0	13	1	THVGMISIQTFR + Oxidation (M); 2 Phospho (ST)
4	407.7800	813.5454							
10	411.0800	820.1454							
22	417.2400	832.4654							
103	465.9600	929.9054							
159	519.7800	1037.5454							
218	542.7800	1083.5454							
226	548.0000	1093.9854							
242	557.3000	1112.5854							
270	587.6100	1173.2054							
297	602.6400	1203.2654							
298	603.0600	1204.1054							
334	624.0100	1246.0054							
364	643.3000	1284.5854							
394	663.2500	1324.4854							
396	663.3400	1324.6654							
426	679.9800	1357.9454							
464	701.4200	1400.8254							
466	702.0000	1401.9854							
468	702.6400	1403.2654							
473	705.0800	1408.1454							
548	756.6600	1511.3054							
604	792.0600	1582.1054							
650	815.6700	1629.3254							
743	901.4100	1800.8054							
795	1010.1600	2018.3054							

## Search Parameters

Type of search : MS/MS Ion Search  
 Enzyme : Trypsin  
 Fixed modifications : Carbamidomethyl (C)  
 Variable modifications : Oxidation (M), Phospho (ST), Phospho (Y)  
 Mass values : Monoisotopic  
 Protein Mass : Unrestricted  
 Peptide Mass Tolerance :  $\pm 0.4$  Da  
 Fragment Mass Tolerance :  $\pm 0.4$  Da  
 Max Missed Cleavages : 2  
 Instrument type : ESI-4SECTOR  
 Number of queries : 968

Mascot: <http://www.matrixscience.com/>