

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **LAEQAER**

Found in **1433B\_HUMAN**, 14-3-3 protein beta/alpha OS=Homo sapiens GN=YWHAB PE=1 SV=3

Match to Query 14957: 1126.580488 from(564.297520,2+) rtinseconds(1443) index(42521)

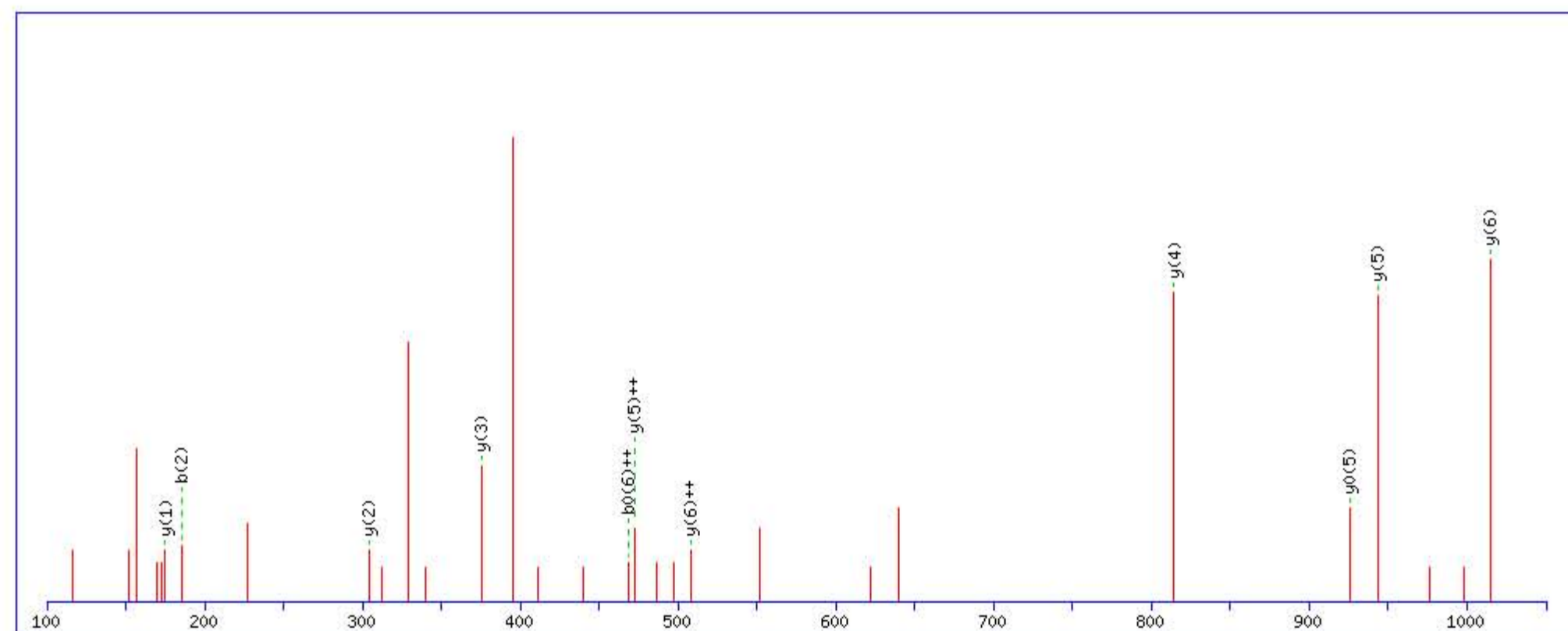
Title: Locus:1.1.1.3215.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1126.580444

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

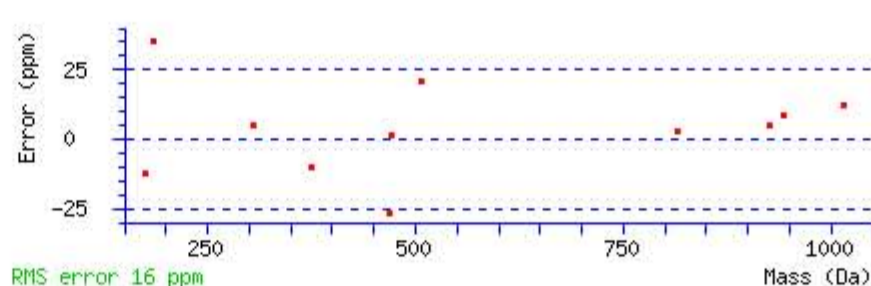
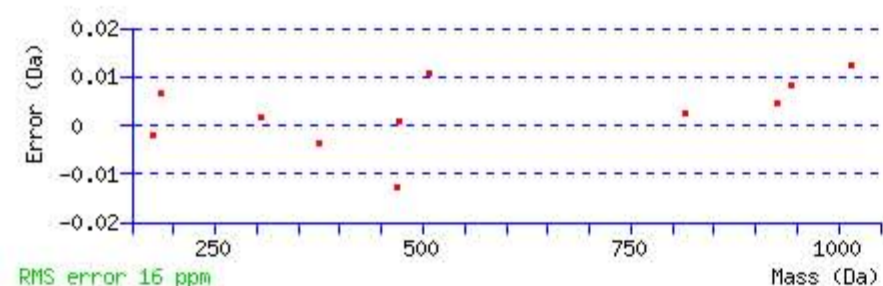
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 25 Expect: 0.037

Matches : 11/60 fragment ions using 27 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							7
2	185.128454	93.067865					A	1014.503692	507.755484	997.477143	499.242210	996.493127	498.750202	6
3	314.171047	157.589161			296.160482	148.583879	E	943.466578	472.236927	926.440029	463.723653	925.456013	463.231645	5
4	753.396373	377.201825	736.369824	368.688550	735.385808	368.196542	Q	814.423985	407.715631	797.397436	399.202356	796.413420	398.710348	4
5	824.433487	412.720382	807.406938	404.207107	806.422922	403.715099	A	375.198659	188.102968	358.172110	179.589693	357.188094	179.097685	3
6	953.476080	477.241678	936.449531	468.728404	935.465515	468.236396	E	304.161545	152.584411	287.134996	144.071136	286.150980	143.579128	2
7							R	175.118952	88.063114	158.092403	79.549840			1



NCBI BLAST search of **LAEQAER**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
25.3	1126.580444	0.000044	<a href="#">LAEQAER</a>
9.5	1126.580444	0.000044	<a href="#">LAQAEEER</a>
0.6	1126.573074	0.007414	<a href="#">SPERPTGDLR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SSPGGASFYHWGAAVPHSQGDALCR**

Found in **ATS13\_HUMAN**, A disintegrin and metalloproteinase with thrombospondin motifs 13 OS=Homo sapiens GN=ADAMTS13 PE=1 SV=1

Match to Query 53296: 2925.342136 from(732.342810,4+) rtinseconds(2070) index(32283)

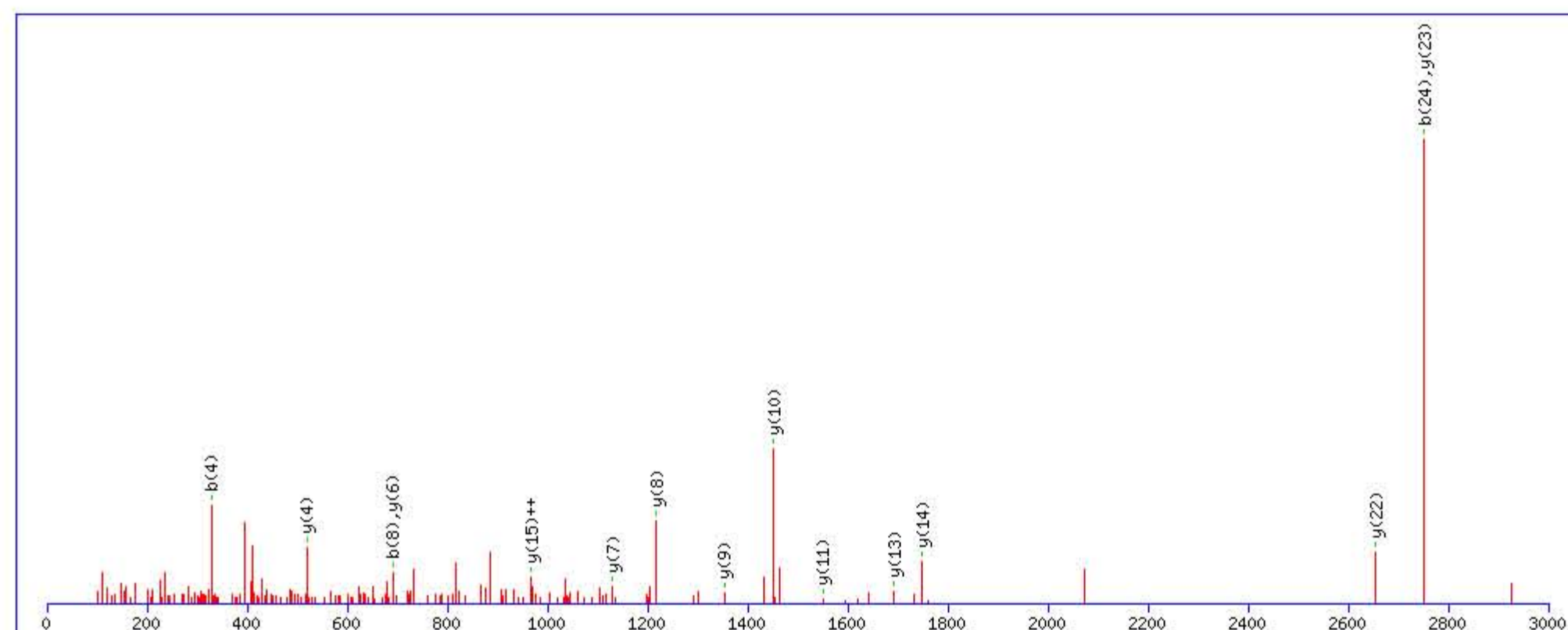
Title: Locus:1.1.1.3384.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2925.343918

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

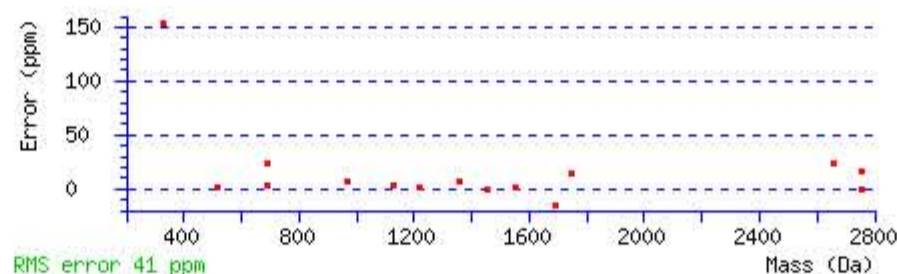
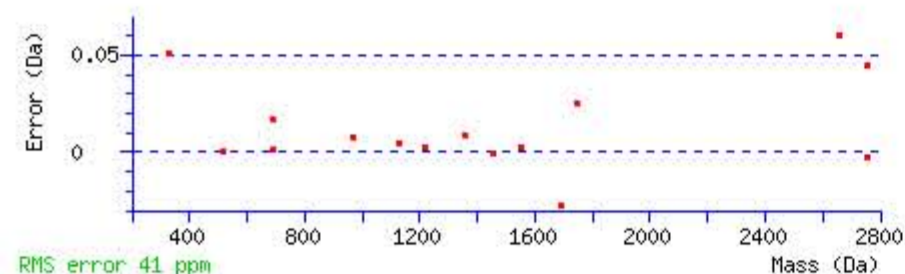
Variable modifications:

Q19 : Biotin:Thermo-21345 (Q)

Ions Score: 71 Expect: 2.6e-007

Matches : 15/244 fragment ions using 20 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							25
2	175.071332	88.039304			157.060767	79.034021	S	2839.319152	1420.163214	2822.292603	1411.649939	2821.308587	1411.157931	24
3	272.124096	136.565686			254.113531	127.560403	P	<b>2752.287124</b>	1376.647200	2735.260575	1368.133925	2734.276559	1367.641917	23
4	<b>329.145560</b>	165.076418			311.134995	156.071135	G	<b>2655.234360</b>	1328.120818	2638.207811	1319.607543	2637.223795	1319.115535	22
5	386.167024	193.587150			368.156459	184.581867	G	2598.212896	1299.610086	2581.186347	1291.096811	2580.202331	1290.604803	21
6	457.204138	229.105707			439.193573	220.100424	A	2541.191432	1271.099354	2524.164883	1262.586079	2523.180867	1262.094071	20
7	544.236166	272.621721			526.225601	263.616438	S	2470.154318	1235.580797	2453.127769	1227.067522	2452.143753	1226.575514	19
8	<b>691.304580</b>	346.155928			673.294015	337.150645	F	2383.122290	1192.064783	2366.095741	1183.551508	2365.111725	1183.059500	18
9	854.367909	427.687592			836.357344	418.682310	Y	2236.053876	1118.530576	2219.027327	1110.017301	2218.043311	1109.525293	17
10	991.426821	496.217048			973.416256	487.211766	H	2072.990547	1036.998911	2055.963998	1028.485637	2054.979982	1027.993629	16
11	1177.506134	589.256705			1159.495569	580.251422	W	1935.931635	<b>968.469456</b>	1918.905086	959.956181	1917.921070	959.464173	15
12	1234.527598	617.767437			1216.517033	608.762154	G	<b>1749.852322</b>	875.429799	1732.825773	866.916525	1731.841757	866.424517	14
13	1305.564712	653.285994			1287.554147	644.280711	A	<b>1692.830858</b>	846.919067	1675.804309	838.405793	1674.820293	837.913785	13
14	1376.601826	688.804551			1358.591261	679.799268	A	1621.793744	811.400510	1604.767195	802.887236	1603.783179	802.395228	12
15	1475.670240	738.338758			1457.659675	729.333475	V	<b>1550.756630</b>	775.881953	1533.730081	767.368679	1532.746065	766.876671	11
16	1572.723004	786.865140			1554.712439	777.859857	P	<b>1451.688216</b>	726.347746	1434.661667	717.834472	1433.677651	717.342464	10
17	1709.781916	855.394596			1691.771351	846.389313	H	<b>1354.635452</b>	677.821364	1337.608903	669.308090	1336.624887	668.816082	9
18	1796.813944	898.910610			1778.803379	889.905327	S	<b>1217.576540</b>	609.291908	1200.549991	600.778634	1199.565975	600.286626	8
19	2236.039270	1118.523273	2219.012721	1110.009998	2218.028705	1109.517990	Q	<b>1130.544512</b>	565.775894	1113.517963	557.262620	1112.533947	556.770612	7
20	2293.060734	1147.034005	2276.034185	1138.520730	2275.050169	1138.028722	G	<b>691.319186</b>	346.163231	674.292637	337.649956	673.308621	337.157948	6
21	2408.087677	1204.547476	2391.061128	1196.034202	2390.077112	1195.542194	D	634.297722	317.652499	617.271173	309.139225	616.287157	308.647217	5
22	2479.124791	1240.066033	2462.098242	1231.552759	2461.114226	1231.060751	A	<b>519.270779</b>	260.139028	502.244230	251.625753			4
23	2592.208855	1296.608065	2575.182306	1288.094791	2574.198290	1287.602783	L	448.233665	224.620470	431.207116	216.107196			3
24	<b>2752.239504</b>	1376.623390	2735.212955	1368.110115	2734.228939	1367.618107	C	335.149601	168.078438	318.123052	159.565164			2
25							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SSPGGASFYHWGAAVPHSQGDALCR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
70.8	2925.343918	-0.001782	<a href="#">SSPGGASFYHWGAAVPHSQGDALCR</a>
0.5	2925.349747	-0.007611	<a href="#">GSYSNSPSNPVNSRANQDFSALMR</a>
0.3	2925.312012	0.030124	<a href="#">MSASAPAAEGEGTPTQPASEKEPEMPGPR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **HQGVMVGMGQK**

Found in **ACTA\_HUMAN**, Actin, aortic smooth muscle OS=Homo sapiens GN=ACTA2 PE=1 SV=1

Match to Query 26756: 1481.718388 from(741.866470,2+) rtinseconds(1646) index(29758)

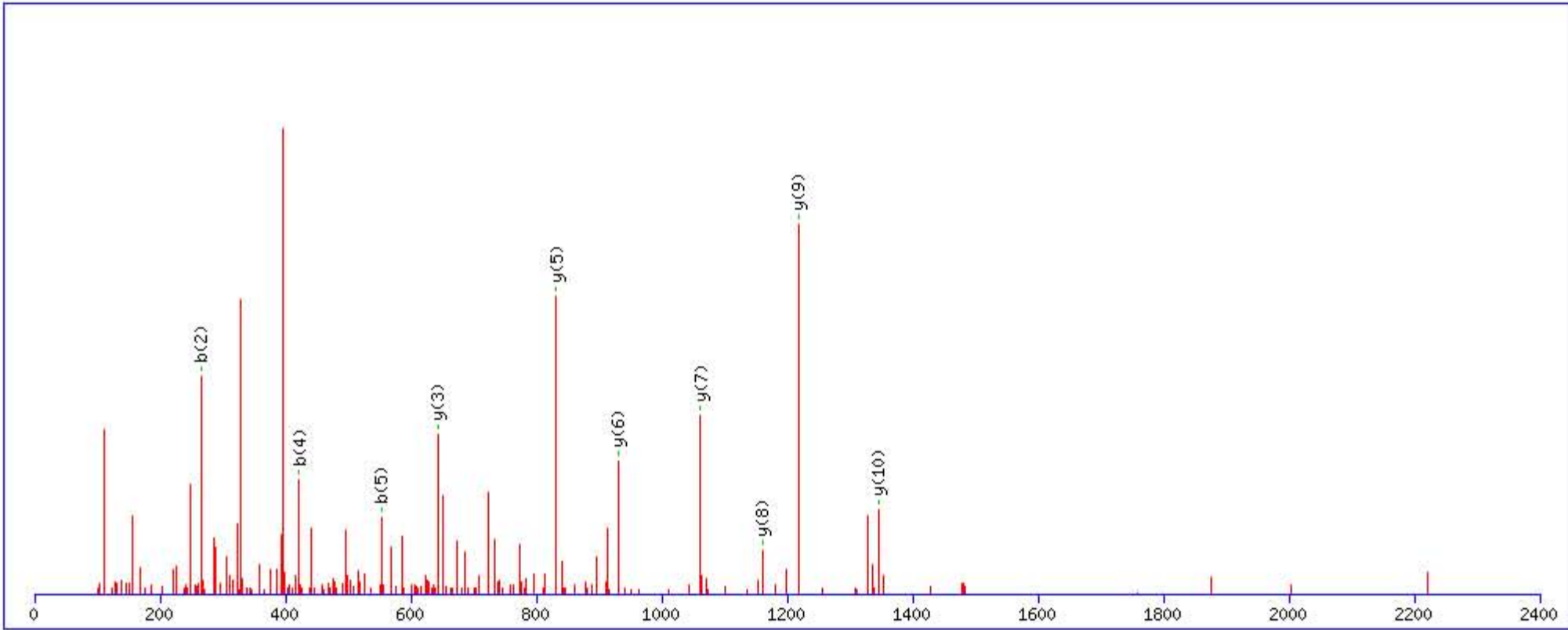
Title: Locus:1.1.1.3236.21 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1481.730545

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

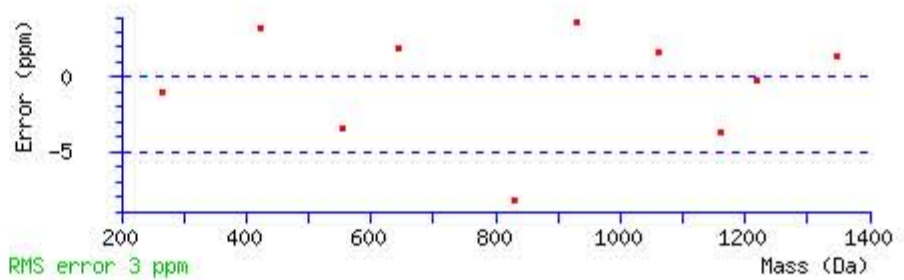
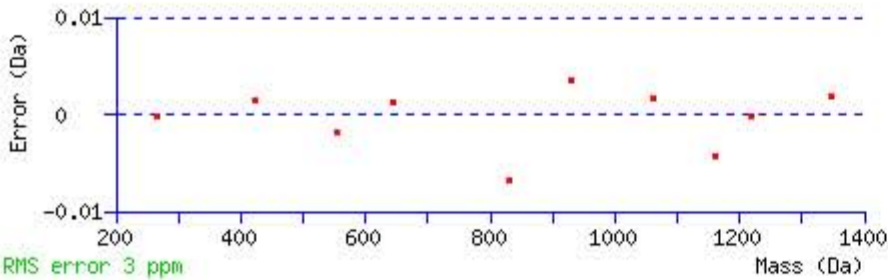
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 56 Expect: 0.0001

Matches : 10/78 fragment ions using 14 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	#
1	138.066188	69.536732			H					11
2	<b>266.124766</b>	133.566021	249.098217	125.052746	Q	<b>1345.678898</b>	673.343087	1328.652349	664.829813	10
3	323.146230	162.076753	306.119681	153.563478	G	<b>1217.620320</b>	609.313798	1200.593771	600.800524	9
4	<b>422.214644</b>	211.610960	405.188095	203.097685	V	<b>1160.598856</b>	580.803066	1143.572307	572.289792	8
5	<b>553.255129</b>	277.131203	536.228580	268.617928	M	<b>1061.530442</b>	531.268859	1044.503893	522.755585	7
6	652.323543	326.665410	635.296994	318.152135	V	<b>930.489957</b>	465.748617	913.463408	457.235342	6
7	709.345007	355.176142	692.318458	346.662867	G	<b>831.421543</b>	416.214410	814.394994	407.701135	5
8	840.385492	420.696384	823.358943	412.183110	M	774.400079	387.703678	757.373530	379.190403	4
9	897.406956	449.207116	880.380407	440.693842	G	<b>643.359594</b>	322.183435	626.333045	313.670161	3
10	1336.632282	668.819779	1319.605733	660.306505	Q	586.338130	293.672703	569.311581	285.159429	2
11					K	147.112804	74.060040	130.086255	65.546765	1



NCBI BLAST search of [HQGVMVGMGQK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
56.0	1481.730545	-0.012157	<a href="#">HQGVMVGMGQK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **DSYVGDEAQS**K

Found in **ACTA\_HUMAN**, Actin, aortic smooth muscle OS=Homo sapiens GN=ACTA2 PE=1 SV=1

Match to Query 27447: 1508.675648 from(755.345100,2+) rtinseconds(1606) index(16558)

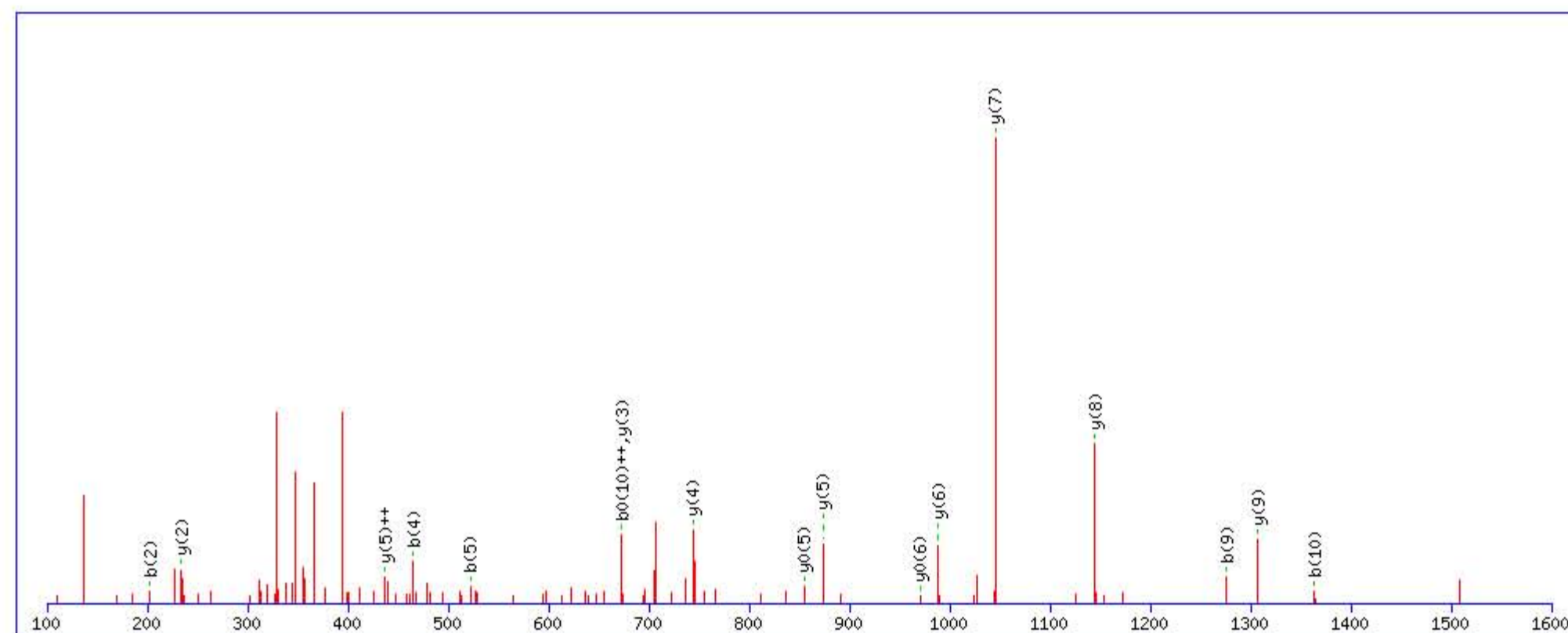
Title: Locus:1.1.1.3125.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1508.681702

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

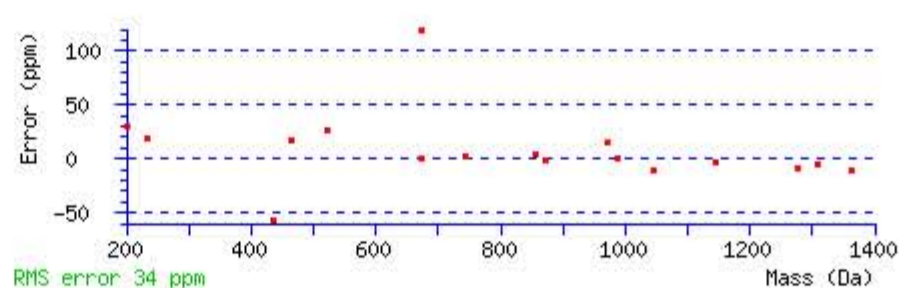
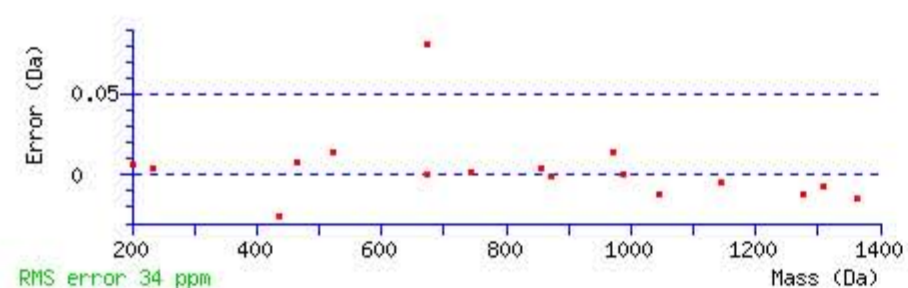
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 54 Expect: 5.9e-005

Matches : 17/102 fragment ions using 26 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							11
2	<b>203.066247</b>	102.036761			185.055682	93.031479	S	1394.662043	697.834660	1377.635494	689.321385	1376.651478	688.829377	10
3	366.129576	183.568426			348.119011	174.563144	Y	<b>1307.630015</b>	654.318646	1290.603466	645.805371	1289.619450	645.313363	9
4	<b>465.197990</b>	233.102633			447.187425	224.097351	V	<b>1144.566686</b>	572.786981	1127.540137	564.273707	1126.556121	563.781699	8
5	<b>522.219454</b>	261.613365			504.208889	252.608083	G	<b>1045.498272</b>	523.252774	1028.471723	514.739500	1027.487707	514.247492	7
6	637.246397	319.126837			619.235832	310.121554	D	<b>988.476808</b>	494.742042	971.450259	486.228768	<b>970.466243</b>	485.736760	6
7	766.288990	383.648133			748.278425	374.642851	E	<b>873.449865</b>	<b>437.228571</b>	856.423316	428.715296	<b>855.439300</b>	428.223288	5
8	837.326104	419.166690			819.315539	410.161408	A	<b>744.407272</b>	372.707274	727.380723	364.194000	726.396707	363.701992	4
9	<b>1276.551430</b>	638.779353	1259.524881	630.266079	1258.540865	629.774070	Q	<b>673.370158</b>	337.188717	656.343609	328.675443	655.359593	328.183435	3
10	<b>1363.583458</b>	682.295367	1346.556909	673.782093	1345.572893	<b>673.290085</b>	S	<b>234.144832</b>	117.576054	217.118283	109.062780	216.134267	108.570772	2
11							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **DSYVGDEAQS**K

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
53.5	1508.681702	-0.006054	<a href="#">DSYVGDEAQS</a> K
7.9	1508.690277	-0.014629	<a href="#">GGRGGMGGSDRGGFN</a> K

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SYELPDGQVITIGNER**

Found in **ACTA\_HUMAN**, Actin, aortic smooth muscle OS=Homo sapiens GN=ACTA2 PE=1 SV=1

Match to Query 41632: 2101.048392 from(701.356740,3+) rtinseconds(2627) index(35424)

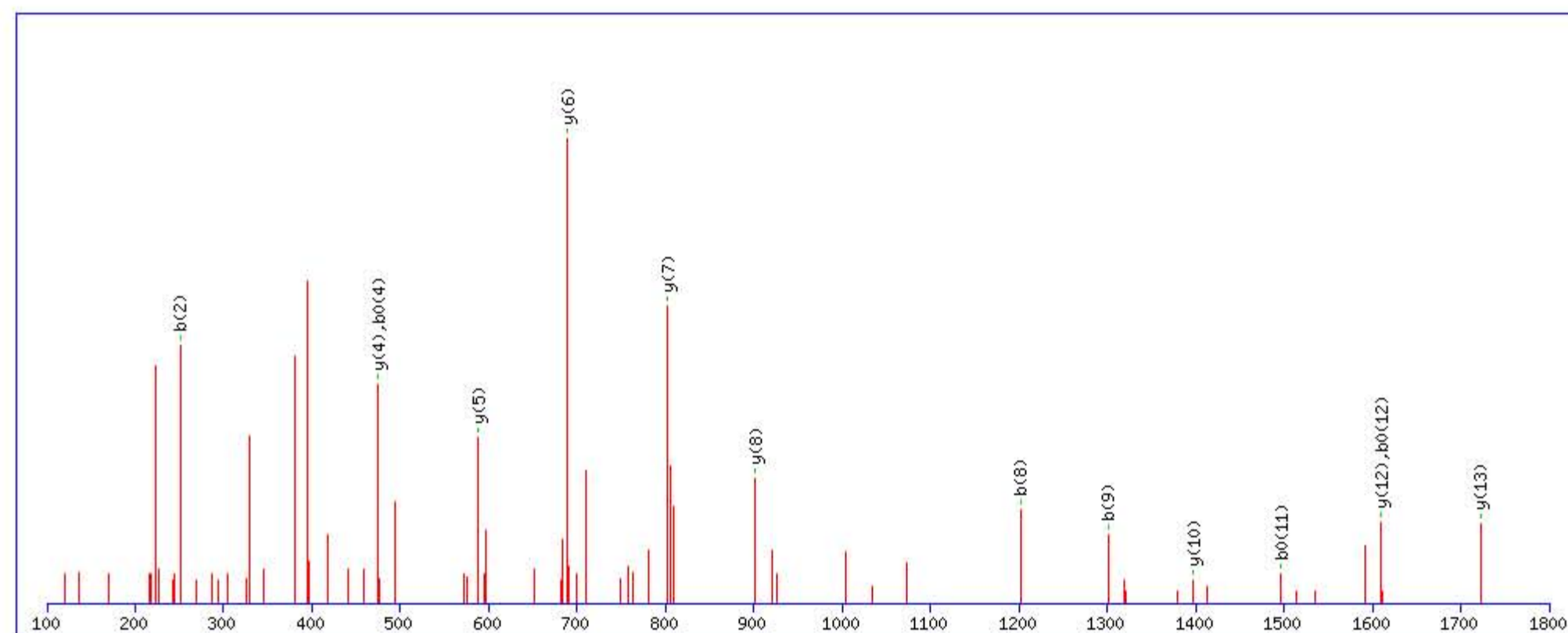
Title: Locus:1.1.1.3578.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2101.051376

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

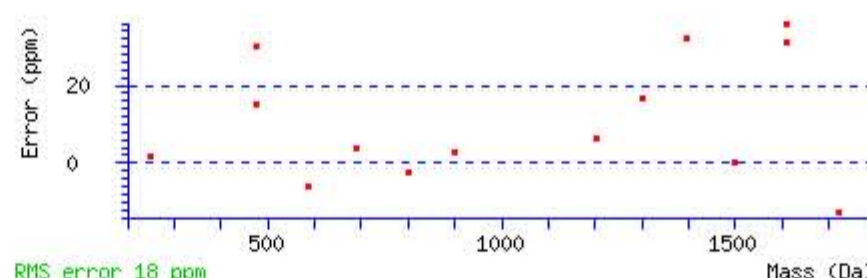
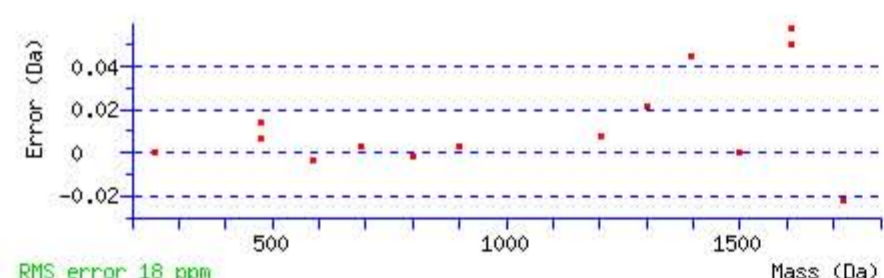
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 59 Expect: 3.2e-006

Matches : 14/164 fragment ions using 16 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							16
2	<b>251.102633</b>	126.054954			233.092068	117.049672	Y	2015.026640	1008.016958	1998.000091	999.503683	1997.016075	999.011675	15
3	380.145226	190.576251			362.134661	181.570969	E	1851.963311	926.485294	1834.936762	917.972019	1833.952746	917.480011	14
4	493.229290	247.118283			<b>475.218725</b>	238.113001	L	<b>1722.920718</b>	861.963997	1705.894169	853.450722	1704.910153	852.958714	13
5	590.282054	295.644665			572.271489	286.639383	P	<b>1609.836654</b>	805.421965	1592.810105	796.908691	1591.826089	796.416682	12
6	705.308997	353.158137			687.298432	344.152854	D	1512.783890	756.895583	1495.757341	748.382309	1494.773325	747.890300	11
7	762.330461	381.668869			744.319896	372.663586	G	<b>1397.756947</b>	699.382111	1380.730398	690.868837	1379.746382	690.376829	10
8	<b>1201.555787</b>	601.281532	1184.529238	592.768257	1183.545222	592.276249	Q	1340.735483	670.871379	1323.708934	662.358105	1322.724918	661.866097	9
9	<b>1300.624201</b>	650.815739	1283.597652	642.302464	1282.613636	641.810456	V	<b>901.510157</b>	451.258716	884.483608	442.745442	883.499592	442.253434	8
10	1413.708265	707.357771	1396.681716	698.844496	1395.697700	698.352488	I	<b>802.441743</b>	401.724509	785.415194	393.211235	784.431178	392.719227	7
11	1514.755944	757.881610	1497.729395	749.368336	<b>1496.745379</b>	748.876328	T	<b>689.357679</b>	345.182478	672.331130	336.669203	671.347114	336.177195	6
12	1627.840008	814.423642	1610.813459	805.910368	<b>1609.829443</b>	805.418359	I	<b>588.310000</b>	294.658638	571.283451	286.145363	570.299435	285.653355	5
13	1684.861472	842.934374	1667.834923	834.421099	1666.850907	833.929091	G	<b>475.225936</b>	238.116606	458.199387	229.603331	457.215371	229.111323	4
14	1798.904399	899.955837	1781.877850	891.442563	1780.893834	890.950555	N	418.204472	209.605874	401.177923	201.092600	400.193907	200.600592	3
15	1927.946992	964.477134	1910.920443	955.963860	1909.936427	955.471851	E	304.161545	152.584411	287.134996	144.071136	286.150980	143.579128	2
16							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [SYELPDGQVITIGNER](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
59.1	2101.051376	-0.002984	<a href="#">SYELPDGQVITIGNER</a>
0.5	2101.022842	0.025550	<a href="#">SDGSKITYIDYYRQQHK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QDSISSK**

Found in **AFAM\_HUMAN**, Afamin OS=Homo sapiens GN=AFM PE=1 SV=1

Match to Query 13386: 1074.538028 from(538.276290,2+) rtinseconds(1450) index(1658)

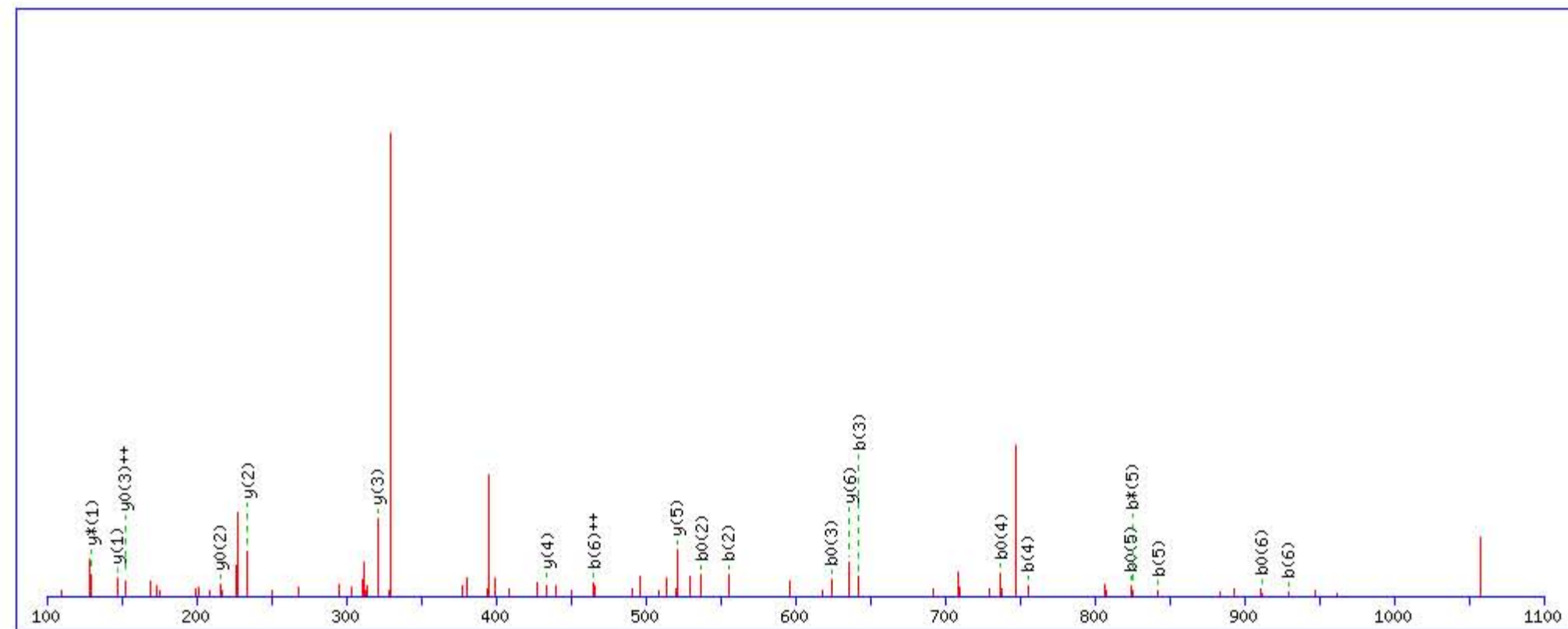
Title: Locus:1.1.1.3024.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1074.537933

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

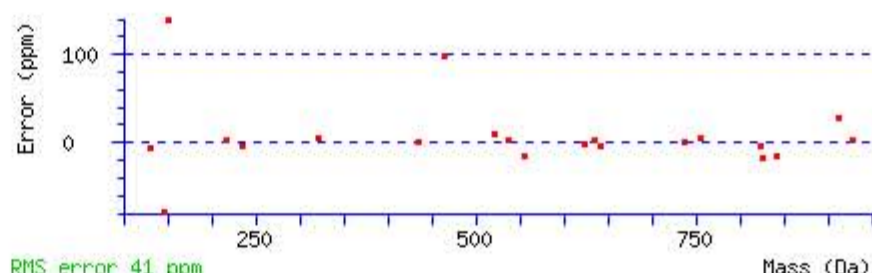
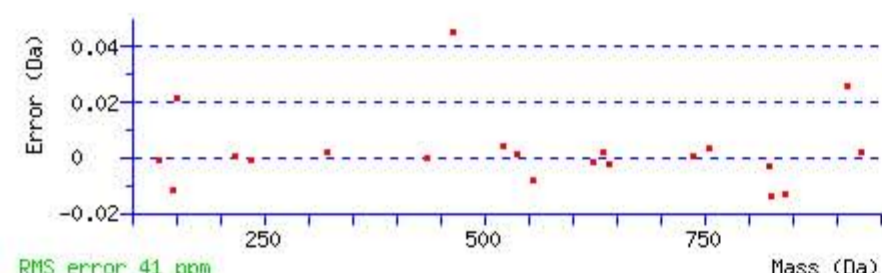
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.01

Matches : 21/68 fragment ions using 37 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							7
2	<b>555.259545</b>	278.133411	538.232996	269.620136	<b>537.248980</b>	269.128128	D	<b>636.319895</b>	318.663586	619.293346	310.150311	618.309330	309.658303	6
3	<b>642.291573</b>	321.649425	625.265024	313.136150	<b>624.281008</b>	312.644142	S	<b>521.292952</b>	261.150114	504.266403	252.636840	503.282387	252.144832	5
4	<b>755.375637</b>	378.191457	738.349088	369.678182	<b>737.365072</b>	369.186174	I	<b>434.260924</b>	217.634100	417.234375	209.120826	416.250359	208.628818	4
5	<b>842.407665</b>	421.707471	<b>825.381116</b>	413.194196	<b>824.397100</b>	412.702188	S	<b>321.176860</b>	161.092068	304.150311	152.578794	303.166295	<b>152.086786</b>	3
6	<b>929.439693</b>	<b>465.223484</b>	912.413144	456.710210	<b>911.429128</b>	456.218202	S	<b>234.144832</b>	117.576054	217.118283	109.062780	<b>216.134267</b>	108.570772	2
7							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546766			1



NCBI BLAST search of **QDSISSK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
32.9	1074.537933	0.000095	<a href="#">QDSISSK</a>
11.3	1074.530548	0.007480	<a href="#">QVTEPTSSAR</a>
7.4	1074.549164	-0.011136	<a href="#">NIRPVDMSK</a>
6.0	1074.537933	0.000095	<a href="#">QDSSKSI</a>
3.9	1074.531418	0.006610	<a href="#">LLACPSVCR</a>
3.5	1074.553192	-0.015164	<a href="#">QPSFSAK</a>
3.2	1074.537933	0.000095	<a href="#">SQEVSSK</a>
2.4	1074.530518	0.007510	<a href="#">KPEDRSSEK</a>
2.3	1074.549164	-0.011136	<a href="#">KSTLSMHQK</a>
1.9	1074.537949	0.000079	<a href="#">ELVVNVCDK</a>

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **AFSSYQK**

Found in **AFAM\_HUMAN**, Afamin OS=Homo sapiens GN=AFM PE=1 SV=1

Match to Query 16020: 1140.562508 from(571.288530,2+) rtinseconds(1673) index(3088)

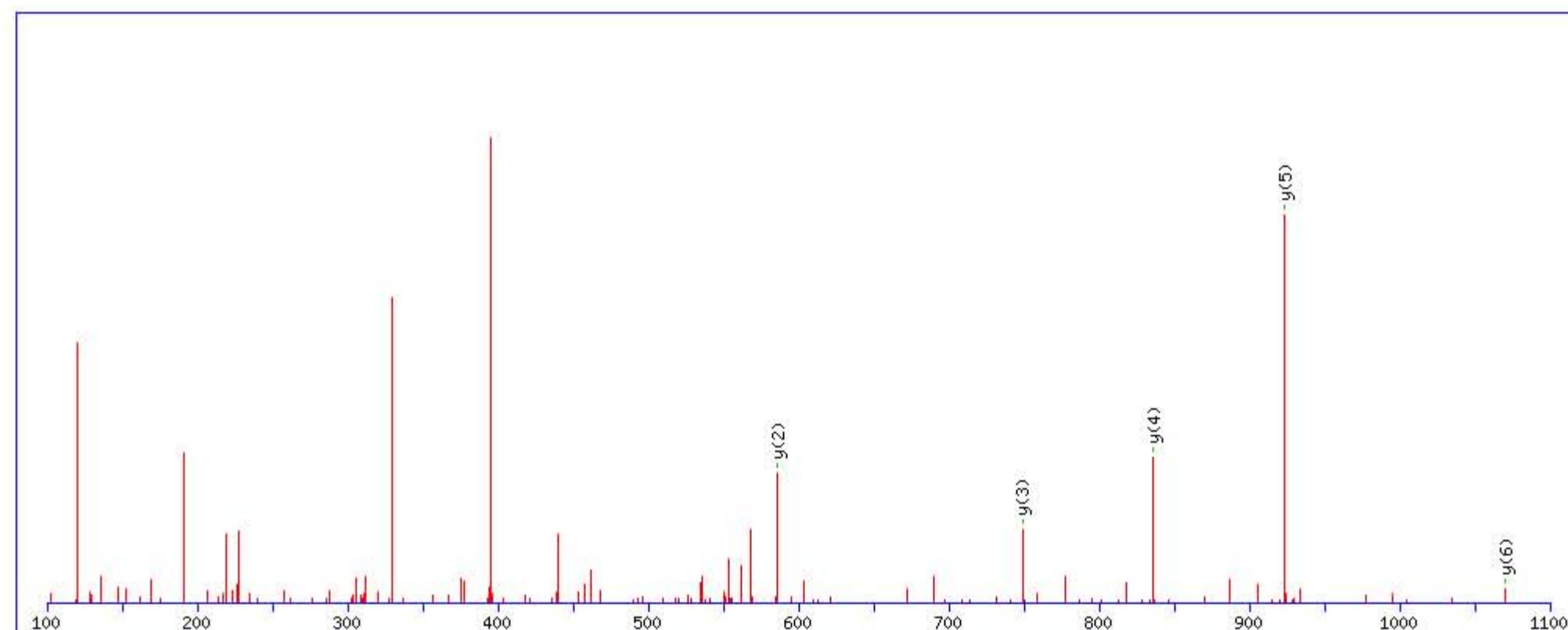
Title: Locus:1.1.1.3102.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1140.563751

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

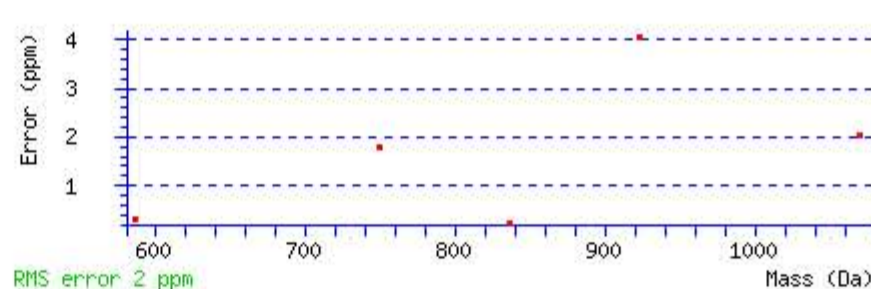
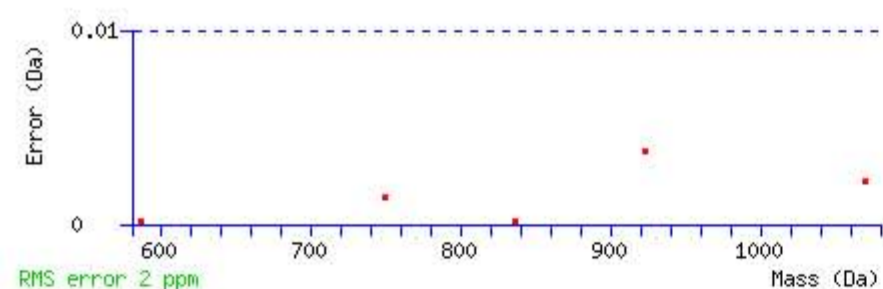
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.0097

Matches : 5/52 fragment ions using 10 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							7
2	219.112804	110.060040					F	<b>1070.533929</b>	535.770603	1053.507380	527.257328	1052.523364	526.765320	6
3	306.144832	153.576054			288.134267	144.570772	S	<b>923.465515</b>	462.236396	906.438966	453.723121	905.454950	453.231113	5
4	393.176860	197.092068			375.166295	188.086785	S	<b>836.433487</b>	418.720382	819.406938	410.207107	818.422922	409.715099	4
5	556.240189	278.623733			538.229624	269.618450	Y	<b>749.401459</b>	375.204368	732.374910	366.691093			3
6	995.465515	498.236396	978.438966	489.723121	977.454950	489.231113	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
7							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **AFSSYQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
27.9	1140.563751	-0.001243	<a href="#">AFSSYQK</a>
6.1	1140.559723	0.002785	<a href="#">AFSRSSDLMK</a>
1.6	1140.545792	0.016716	<a href="#">MAESAPARHR</a>
0.9	1140.552322	0.010186	<a href="#">AHDEAVRSEK</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VNCLQTR**

Found in **AFAM\_HUMAN**, Afamin OS=Homo sapiens GN=AFM PE=1 SV=1

Match to Query 17758: 1200.601968 from(601.308260,2+) rtinseconds(1543) index(16135)

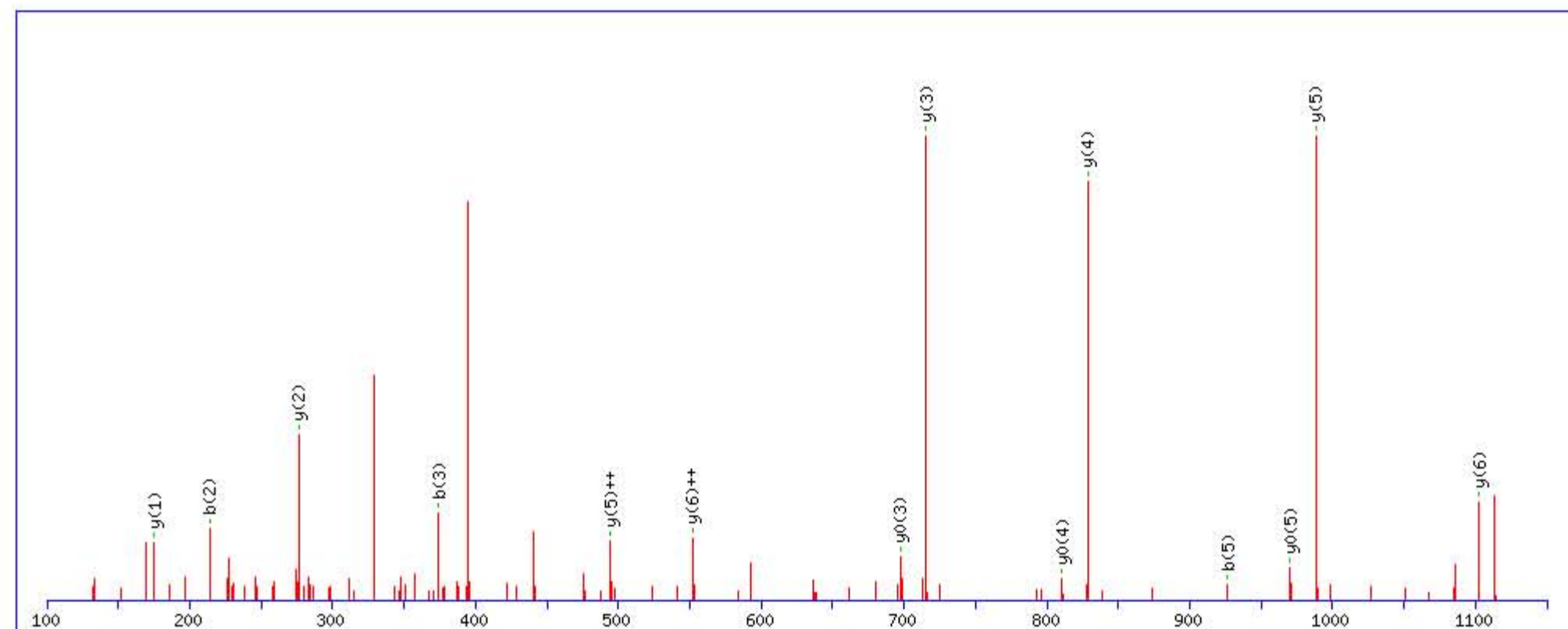
Title: Locus:1.1.1.3103.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1200.610733

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

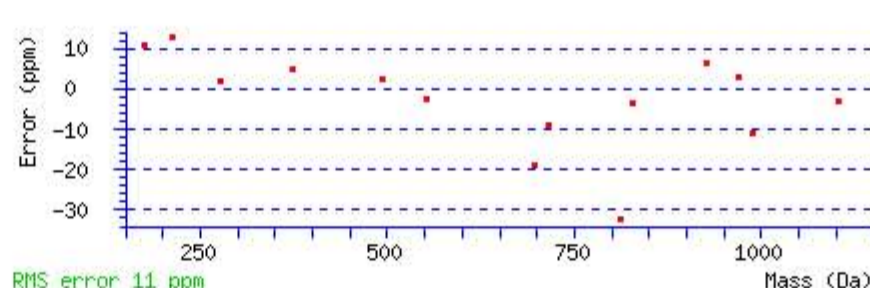
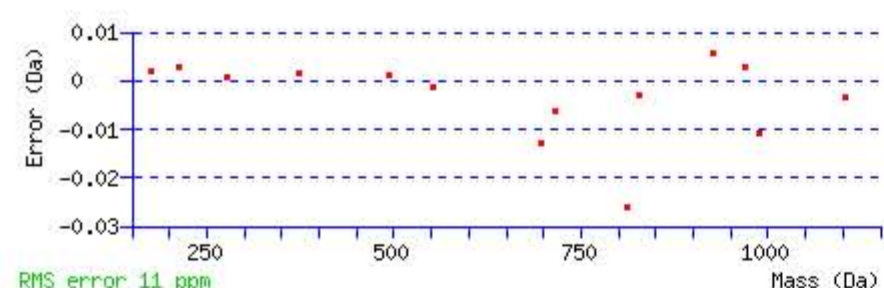
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 46 Expect: 0.00029

Matches : 14/58 fragment ions using 20 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							7
2	<b>214.118617</b>	107.562947	197.092068	99.049672			N	<b>1102.549597</b>	<b>551.778437</b>	1085.523048	543.265162	1084.539032	542.773154	6
3	<b>374.149266</b>	187.578271	357.122717	179.064997			C	<b>988.506670</b>	<b>494.756973</b>	971.480121	486.243698	<b>970.496105</b>	485.751691	5
4	487.233330	244.120303	470.206781	235.607029			L	<b>828.476021</b>	414.741649	811.449472	406.228374	<b>810.465456</b>	405.736366	4
5	<b>926.458656</b>	463.732966	909.432107	455.219692			Q	<b>715.391957</b>	358.199617	698.365408	349.686342	<b>697.381392</b>	349.194334	3
6	1027.506335	514.256806	1010.479786	505.743531	1009.495770	505.251523	T	<b>276.166631</b>	138.586953	259.140082	130.073679	258.156066	129.581671	2
7							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VNCLQTR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
46.2	1200.610733	-0.008765	<a href="#">VNCLQTR</a>
7.9	1200.603333	-0.001365	<a href="#">VMSKSGHSNVR</a>
6.1	1200.603333	-0.001365	<a href="#">GRIAEPSVCGR</a>
4.2	1200.607361	-0.005393	<a href="#">RGDYVHVMPK</a>
3.4	1200.617233	-0.015265	<a href="#">VMEETPNLR</a>
1.0	1200.611191	-0.009223	<a href="#">HDSLAKHTR</a>
0.6	1200.592087	0.009881	<a href="#">SATEQQAR</a>

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



# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **MVQQECK**

Found in **AFAM\_HUMAN**, Afamin OS=Homo sapiens GN=AFM PE=1 SV=1

Match to Query 18474: 1232.568648 from(617.291600,2+) rtinseconds(1380) index(15088)

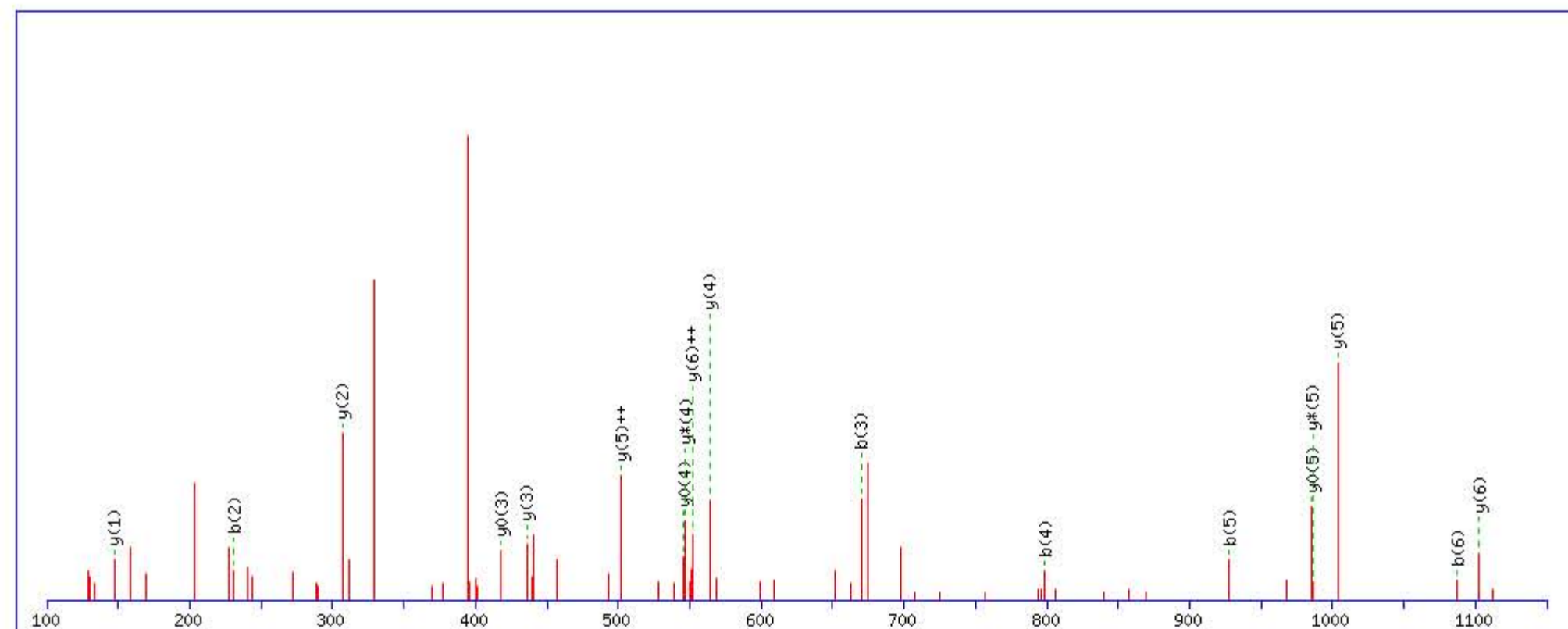
Title: Locus:1.1.1.3046.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1232.571564

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

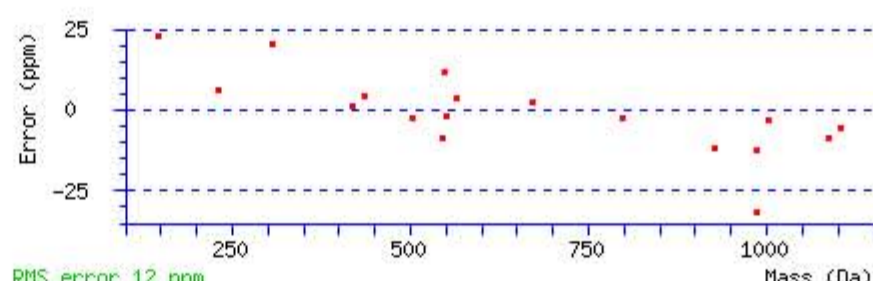
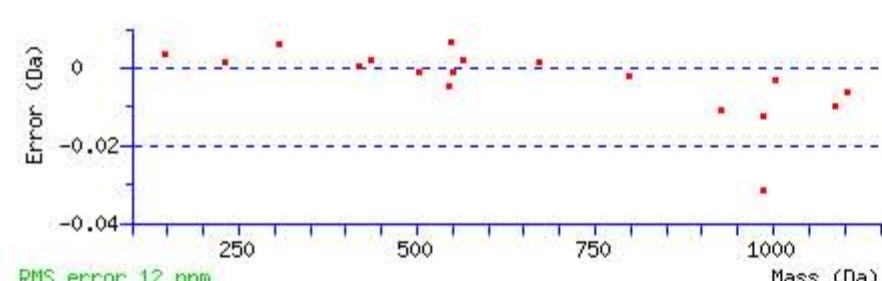
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.012

Matches : 18/56 fragment ions using 39 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							7
2	<b>231.116175</b>	116.061725					V	<b>1102.538364</b>	<b>551.772820</b>	1085.511815	543.259546	1084.527799	542.767538	6
3	<b>670.341501</b>	335.674389	653.314952	327.161114			Q	<b>1003.469950</b>	<b>502.238613</b>	<b>986.443401</b>	493.725339	<b>985.459385</b>	493.233331	5
4	<b>798.400079</b>	399.703678	781.373530	391.190403			Q	<b>564.244624</b>	282.625950	<b>547.218075</b>	274.112676	<b>546.234059</b>	273.620668	4
5	<b>927.442672</b>	464.224974	910.416123	455.711700	909.432107	455.219692	E	<b>436.186046</b>	218.596661	419.159497	210.083387	<b>418.175481</b>	209.591379	3
6	<b>1087.473321</b>	544.240299	1070.446772	535.727024	1069.462756	535.235016	C	<b>307.143453</b>	154.075365	290.116904	145.562090			2
7							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **MVQQECK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
25.6	1232.571564	-0.002916	<a href="#">MVQQECK</a>
14.4	1232.571564	-0.002916	<a href="#">MVQQECK</a>
5.0	1232.570694	-0.002046	<a href="#">QDDKSSDK</a>
1.9	1232.570679	-0.002031	<a href="#">ENVPASSLCEK</a>
1.8	1232.564163	0.004485	<a href="#">EPQRGMGSMMPK</a>
1.2	1232.556091	0.012557	<a href="#">ETPPSFPECDK</a>
0.2	1232.564163	0.004485	<a href="#">EPQRGMGSMMPK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **MVQQECK**

Found in **AFAM\_HUMAN**, Afamin OS=Homo sapiens GN=AFM PE=1 SV=1

Match to Query 18927: 1248.568408 from(625.291480,2+) rtinseconds(1281) index(784)

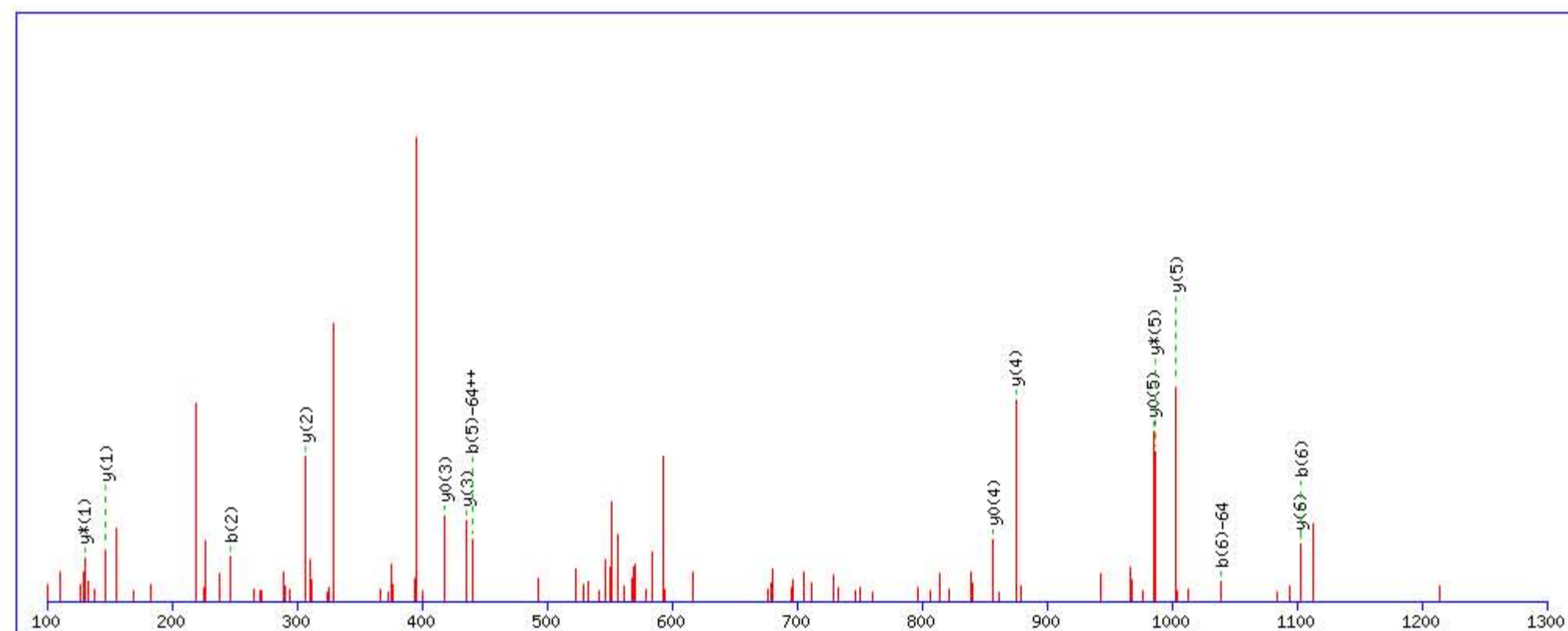
Title: Locus:1.1.1.2965.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1248.566483

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

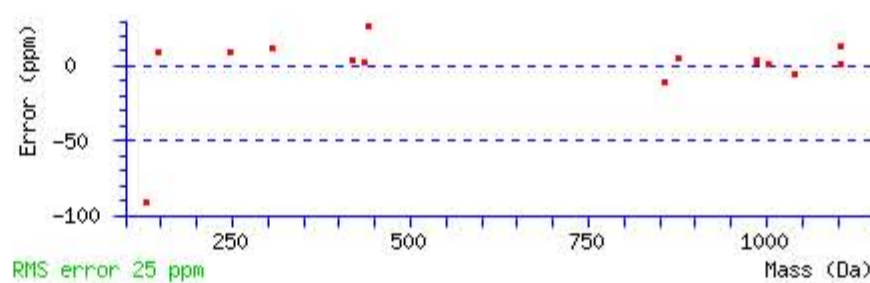
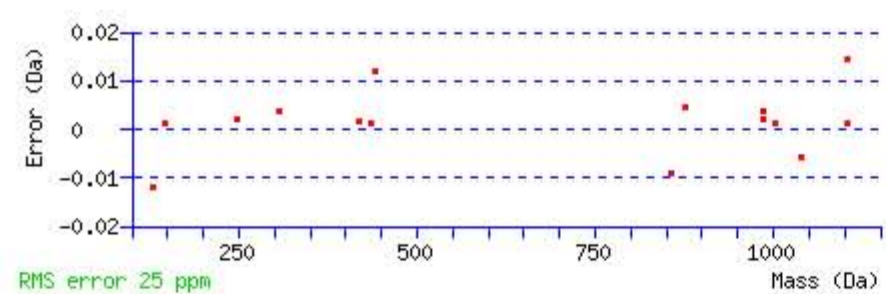
M1 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 29 Expect: 0.0044

Matches : 15/80 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.042676	74.524976					M							7
2	<b>247.111090</b>	124.059183					V	<b>1102.538364</b>	551.772820	1085.511815	543.259546	1084.527799	542.767538	6
3	375.169668	188.088472	358.143119	179.575198			Q	<b>1003.469950</b>	502.238613	<b>986.443401</b>	493.725338	<b>985.459385</b>	493.233330	5
4	814.394994	407.701135	797.368445	399.187861			Q	<b>875.411372</b>	438.209324	858.384823	429.696050	<b>857.400807</b>	429.204042	4
5	943.437587	472.222432	926.411038	463.709157	925.427022	463.217149	E	<b>436.186046</b>	218.596661	419.159497	210.083386	<b>418.175481</b>	209.591378	3
6	<b>1103.468236</b>	552.237756	1086.441687	543.724482	1085.457671	543.232473	C	<b>307.143453</b>	154.075364	290.116904	145.562090			2
7							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **MVQQECK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
29.5	1248.566483	0.001925	<a href="#">MVQQECK</a>
18.5	1248.566483	0.001925	<a href="#">MVQQECK</a>
4.2	1248.576813	-0.008405	<a href="#">KCESLEQEAR</a>
1.8	1248.569611	-0.001203	<a href="#">MYEVYDAKSK</a>
0.7	1248.584244	-0.015836	<a href="#">MHSMISSVDVK</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **CQAYESNR**

Found in **AFAM\_HUMAN**, Afamin OS=Homo sapiens GN=AFM PE=1 SV=1

Match to Query 21073: 1337.586408 from(669.800480,2+) rtinseconds(1439) index(1573)

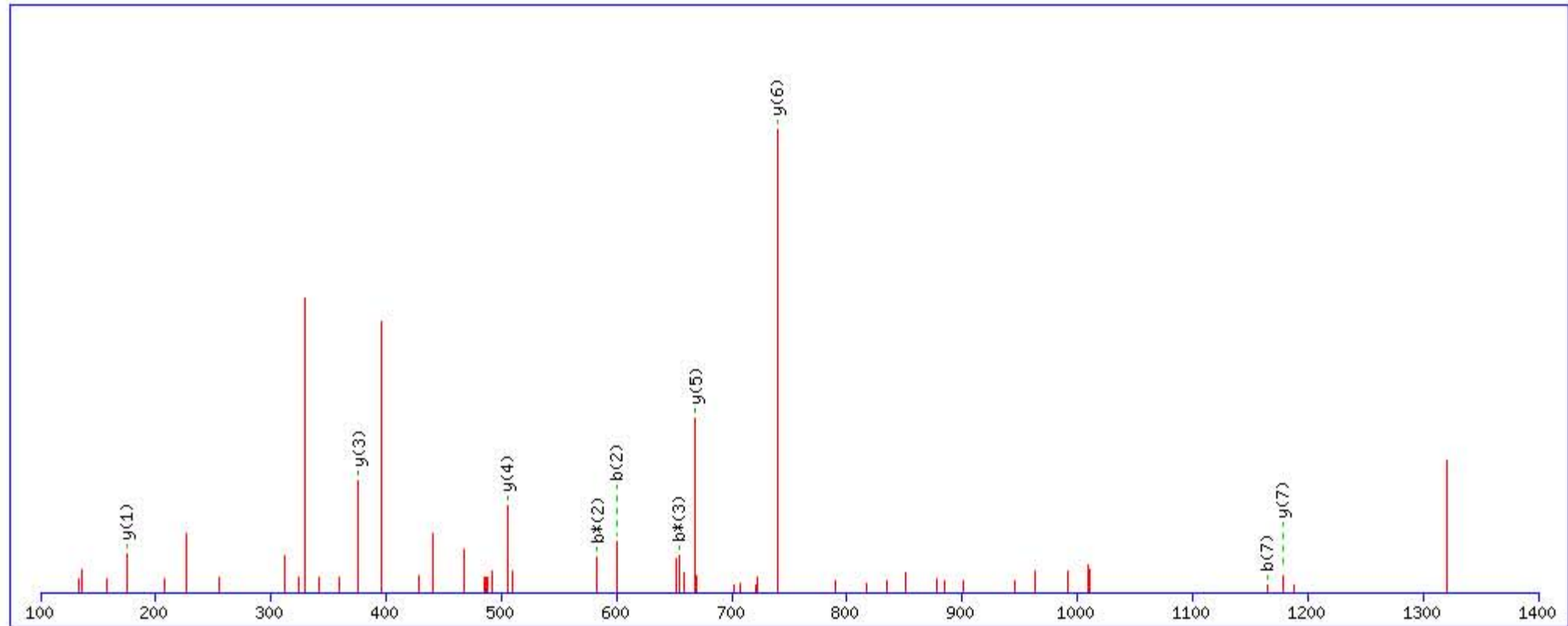
Title: Locus:1.1.1.3020.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1337.585617

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

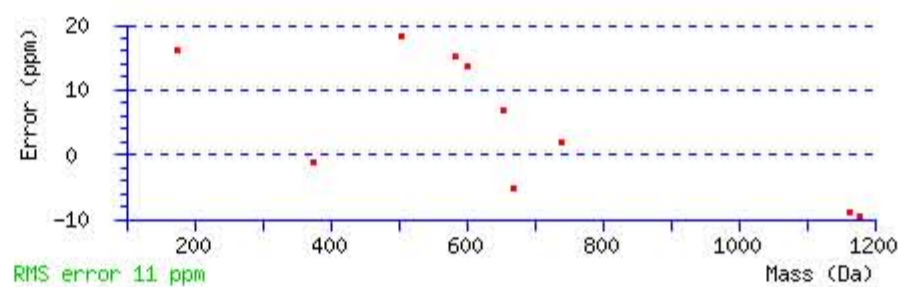
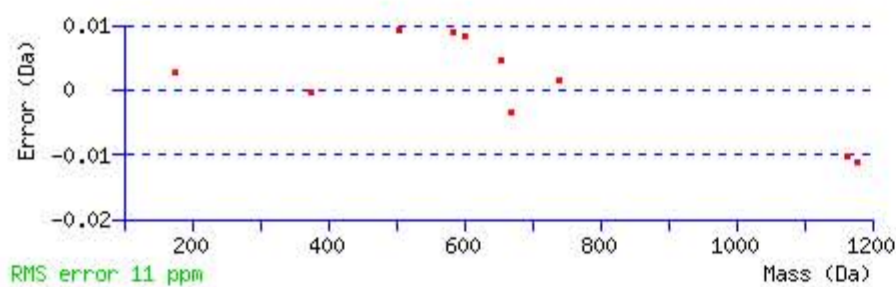
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.0025

Matches : 10/70 fragment ions using 21 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	161.037925	81.022600					C							8
2	<b>600.263251</b>	300.635264	<b>583.236702</b>	292.121989			Q	<b>1178.562269</b>	589.784773	1161.535720	581.271498	1160.551704	580.779490	7
3	671.300365	336.153821	<b>654.273816</b>	327.640546			A	<b>739.336943</b>	370.172110	722.310394	361.658835	721.326378	361.166827	6
4	834.363694	417.685485	817.337145	409.172211			Y	<b>668.299829</b>	334.653553	651.273280	326.140278	650.289264	325.648270	5
5	963.406287	482.206782	946.379738	473.693507	945.395722	473.201499	E	<b>505.236500</b>	253.121888	488.209951	244.608613	487.225935	244.116605	4
6	1050.438315	525.722796	1033.411766	517.209521	1032.427750	516.717513	S	<b>376.193907</b>	188.600591	359.167358	180.087317	358.183342	179.595309	3
7	<b>1164.481242</b>	582.744259	1147.454693	574.230985	1146.470677	573.738977	N	289.161879	145.084577	272.135330	136.571303			2
8							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **CQAYESNR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
33.2	1337.585617	0.000791	<a href="#">CQAYESNR</a>
12.2	1337.596848	-0.010440	<a href="#">CYEMASHLRR</a>
0.5	1337.599365	-0.012957	<a href="#">SSGSSPAMETRGR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LPNNVLQEK**

Found in **AFAM\_HUMAN**, Afamin OS=Homo sapiens GN=AFM PE=1 SV=1

Match to Query 22507: 1364.756528 from(683.385540,2+) rtinseconds(1925) index(4356)

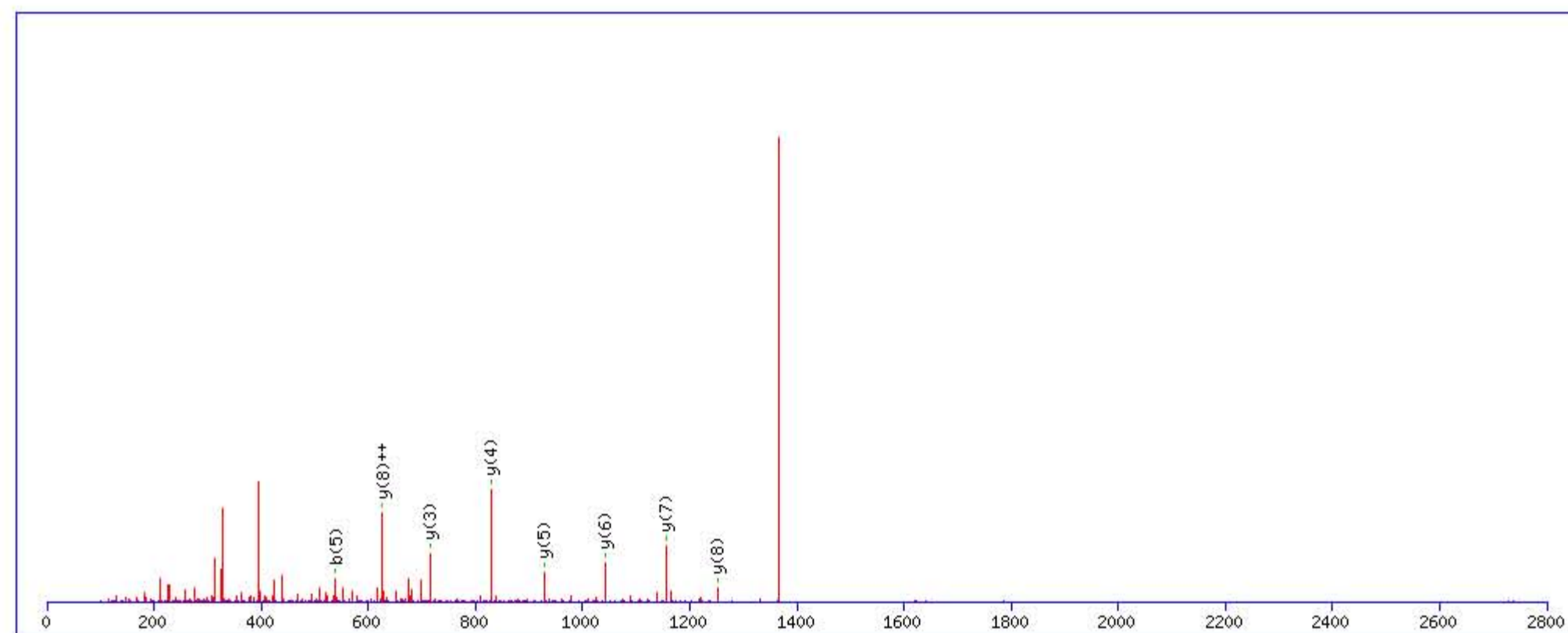
Title: Locus:1.1.1.3190.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1364.748581

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

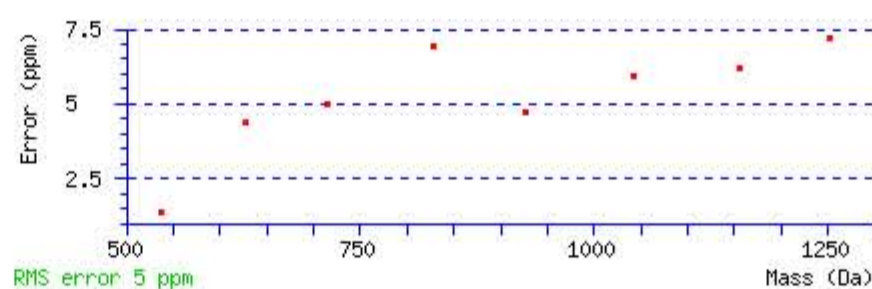
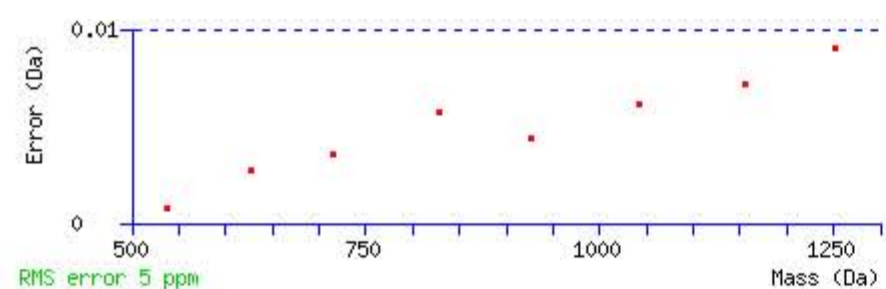
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 42 Expect: 0.00099

Matches : 8/76 fragment ions using 13 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							9
2	211.144104	106.075690					P	1252.671819	626.839548	1235.645270	618.326273	1234.661254	617.834265	8
3	325.187031	163.097153	308.160482	154.583879			N	1155.619055	578.313166	1138.592506	569.799891	1137.608490	569.307883	7
4	439.229958	220.118617	422.203409	211.605343			N	1041.576128	521.291702	1024.549579	512.778428	1023.565563	512.286420	6
5	538.298372	269.652824	521.271823	261.139550			V	927.533201	464.270239	910.506652	455.756964	909.522636	455.264956	5
6	651.382436	326.194856	634.355887	317.681582			L	828.464787	414.736032	811.438238	406.222757	810.454222	405.730749	4
7	1090.607762	545.807519	1073.581213	537.294245			Q	715.380723	358.194000	698.354174	349.680725	697.370158	349.188717	3
8	1219.650355	610.328816	1202.623806	601.815541	1201.639790	601.323533	E	276.155397	138.581336	259.128848	130.068062	258.144832	129.576054	2
9							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LPNNVLQEK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
41.9	1364.748581	0.007947	<a href="#">LPNNVLQEK</a>
9.3	1364.745239	0.011289	<a href="#">KVVSVIDVYTR</a>
7.0	1364.759827	-0.003299	<a href="#">QTSSLIHR</a>
4.4	1364.771240	-0.014712	<a href="#">IFQKLMFK</a>
4.0	1364.752609	0.003919	<a href="#">KQFLDYLK</a>
1.1	1364.742065	0.014463	<a href="#">LQMQLHLR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **FTDSENVQER**

Found in **AFAM\_HUMAN**, Afamin OS=Homo sapiens GN=AFM PE=1 SV=1

Match to Query 33535: 1694.738652 from(565.920160,3+) rtinseconds(1648) index(2918)

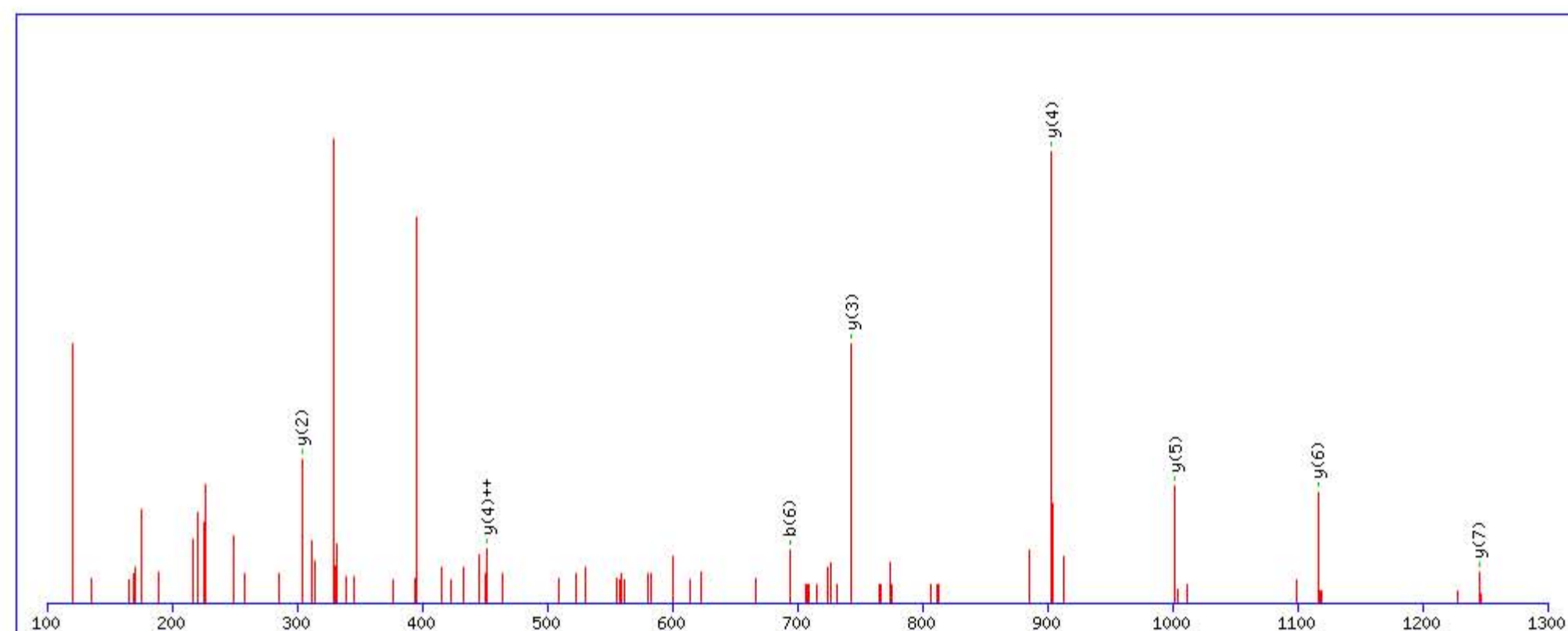
Title: Locus:1.1.1.3093.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1694.739243

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

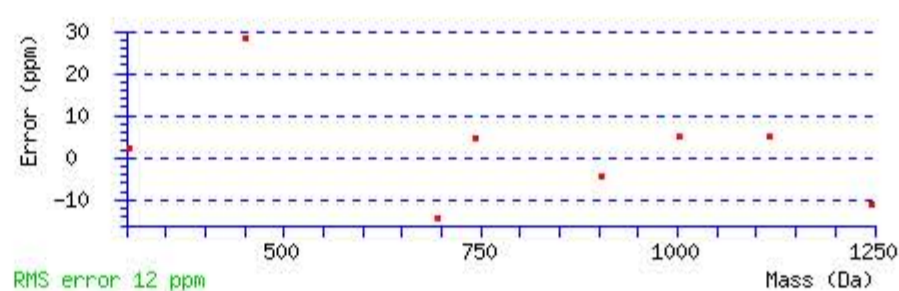
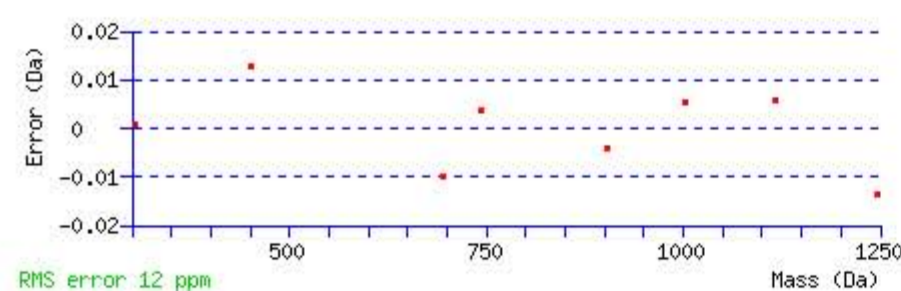
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 41 Expect: 0.00038

Matches : 8/106 fragment ions using 11 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							11
2	249.123369	125.065322			231.112804	116.060040	T	1548.678104	774.842690	1531.651555	766.329416	1530.667539	765.837408	10
3	364.150312	182.578794			346.139747	173.573512	D	1447.630425	724.318851	1430.603876	715.805576	1429.619860	715.313568	9
4	451.182340	226.094808			433.171775	217.089526	S	1332.603482	666.805379	1315.576933	658.292105	1314.592917	657.800097	8
5	580.224933	290.616105			562.214368	281.610822	E	<b>1245.571454</b>	623.289365	1228.544905	614.776091	1227.560889	614.284083	7
6	<b>694.267860</b>	347.637568	677.241311	339.124294	676.257295	338.632286	N	<b>1116.528861</b>	558.768069	1099.502312	550.254794	1098.518296	549.762786	6
7	793.336274	397.171775	776.309725	388.658501	775.325709	388.166493	V	<b>1002.485934</b>	501.746605	985.459385	493.233331	984.475369	492.741323	5
8	953.366923	477.187100	936.340374	468.673825	935.356358	468.181817	C	<b>903.417520</b>	<b>452.212398</b>	886.390971	443.699124	885.406955	443.207116	4
9	1392.592249	696.799763	1375.565700	688.286488	1374.581684	687.794480	Q	<b>743.386871</b>	372.197074	726.360322	363.683799	725.376306	363.191791	3
10	1521.634842	761.321059	1504.608293	752.807785	1503.624277	752.315777	E	<b>304.161545</b>	152.584411	287.134996	144.071136	286.150980	143.579128	2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [FTDSENVQER](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
40.9	1694.739243	-0.000591	<a href="#">FTDSENVQER</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GQCIINSNKDDRPK**

Found in **AFAM\_HUMAN**, Afamin OS=Homo sapiens GN=AFM PE=1 SV=1

Match to Query 38433: 1954.967376 from(489.749120,4+) rtinseconds(1415) index(15311)

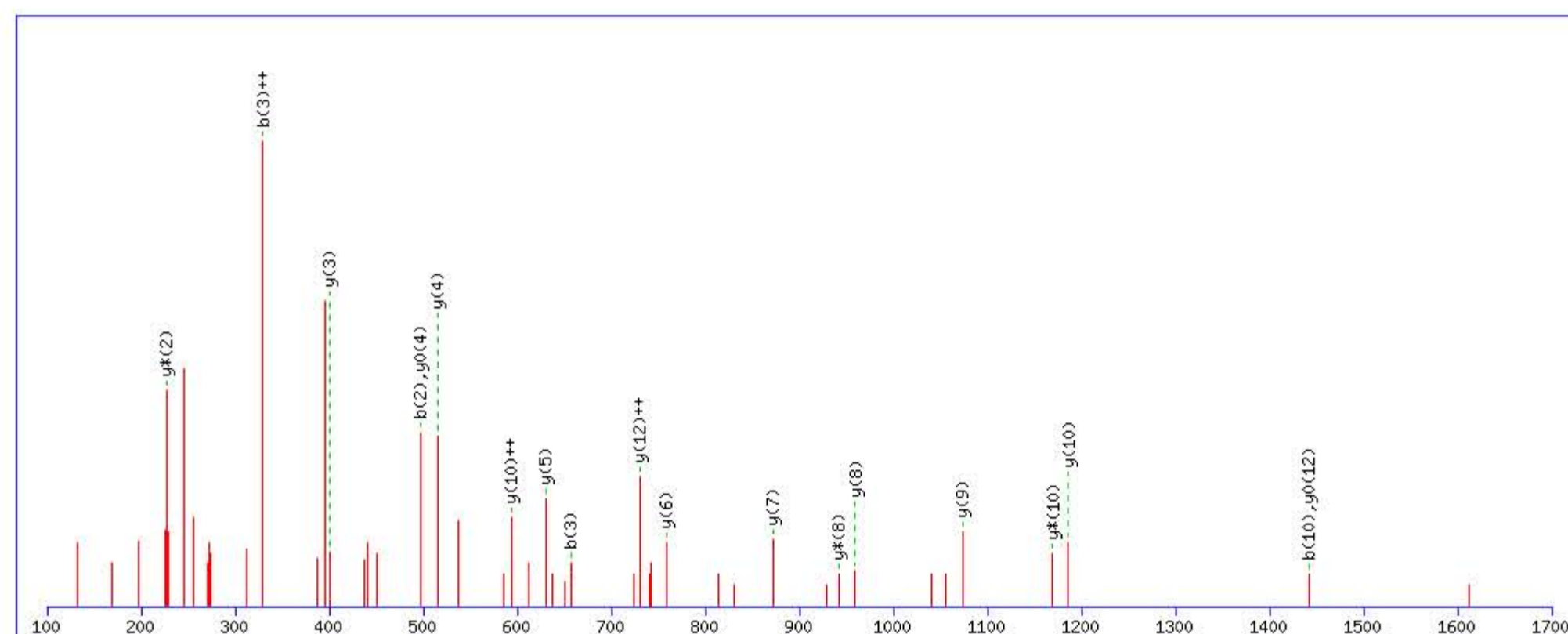
Title: Locus:1.1.1.3058.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1954.971680

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

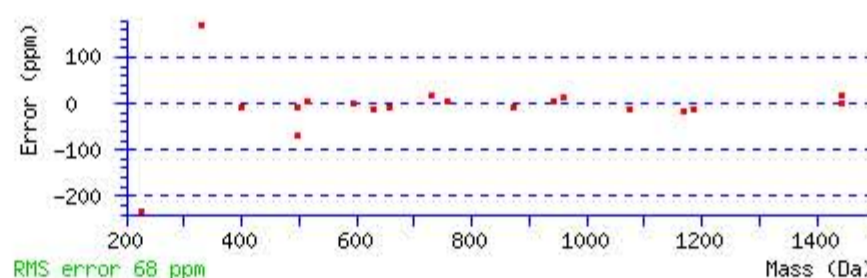
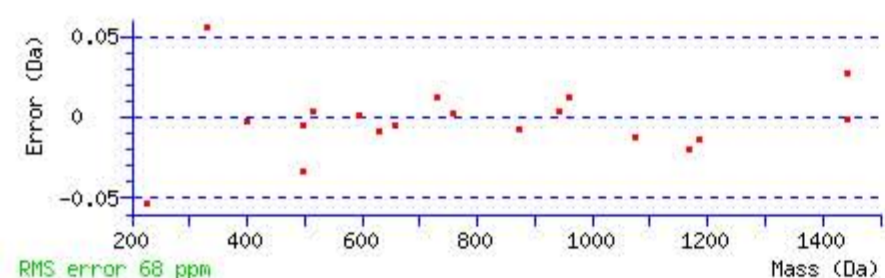
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 53 Expect: 0.00013

Matches : 19/136 fragment ions using 24 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							14
2	<b>497.254066</b>	249.130671	480.227517	240.617397			Q	1898.957513	949.982395	1881.930964	941.469120	1880.946948	940.977112	13
3	<b>657.284715</b>	<b>329.145996</b>	640.258166	320.632721			C	1459.732187	<b>730.369732</b>	1442.705638	721.856457	<b>1441.721622</b>	721.364449	12
4	770.368779	385.688028	753.342230	377.174753			I	1299.701538	650.354407	1282.674989	641.841133	1281.690973	641.349125	11
5	883.452843	442.230060	866.426294	433.716785			I	<b>1186.617474</b>	<b>593.812375</b>	<b>1169.590925</b>	585.299101	1168.606909	584.807093	10
6	997.495770	499.251523	980.469221	490.738249			N	<b>1073.533410</b>	537.270343	1056.506861	528.757069	1055.522845	528.265061	9
7	1084.527798	542.767537	1067.501249	534.254263	1066.517233	533.762255	S	<b>959.490483</b>	480.248880	<b>942.463934</b>	471.735605	941.479918	471.243597	8
8	1198.570725	599.789001	1181.544176	591.275726	1180.560160	590.783718	N	<b>872.458455</b>	436.732866	855.431906	428.219591	854.447890	427.727583	7
9	1326.665688	663.836482	1309.639139	655.323208	1308.655123	654.831200	K	<b>758.415528</b>	379.711402	741.388979	371.198128	740.404963	370.706120	6
10	<b>1441.692631</b>	721.349954	1424.666082	712.836679	1423.682066	712.344671	D	<b>630.320565</b>	315.663921	613.294016	307.150646	612.310000	306.658638	5
11	1556.719574	778.863425	1539.693025	770.350151	1538.709009	769.858143	D	<b>515.293622</b>	258.150449	498.267073	249.637175	<b>497.283057</b>	249.145167	4
12	1712.820685	856.913981	1695.794136	848.400706	1694.810120	847.908698	R	<b>400.266679</b>	200.636977	383.240130	192.123703			3
13	1809.873449	905.440363	1792.846900	896.927088	1791.862884	896.435080	P	244.165568	122.586422	<b>227.139019</b>	114.073148			2
14							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [GQCIINSNKDDRPK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
52.8	1954.971680	-0.004304	<a href="#">GQCIINSNKDDRPK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SCCEEQNKVNCLQTR**

Found in **AFAM\_HUMAN**, Afamin OS=Homo sapiens GN=AFM PE=1 SV=1

Match to Query 43880: 2235.983562 from(746.335130,3+) rtinseconds(1514) index(2053)

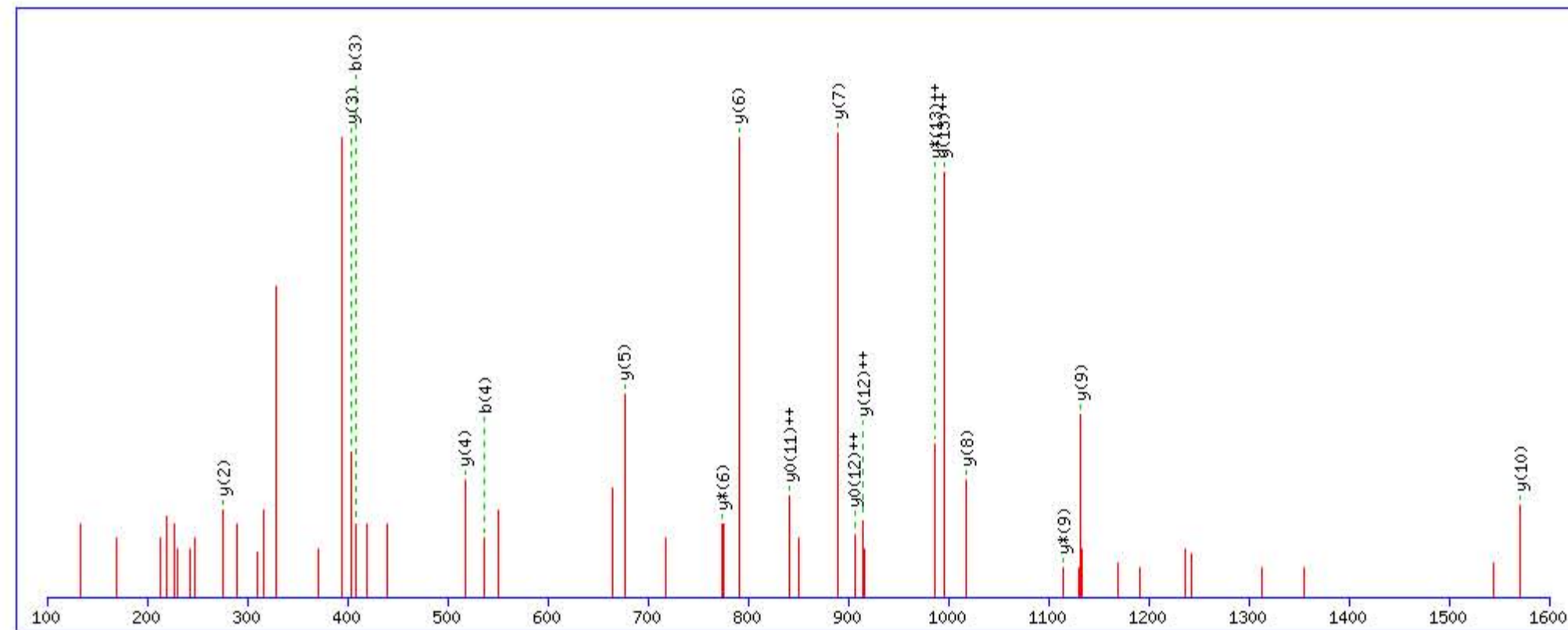
Title: Locus:1.1.1.3046.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2235.985703

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

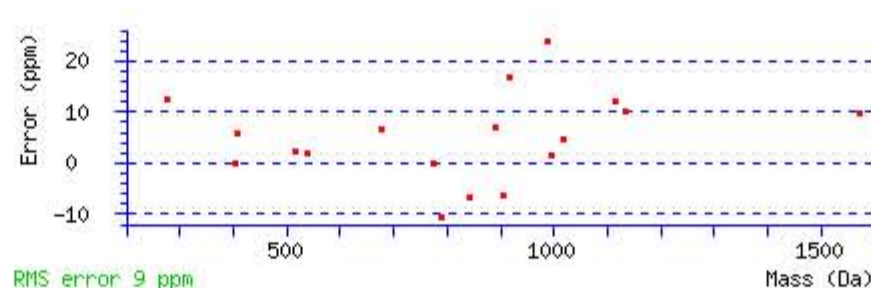
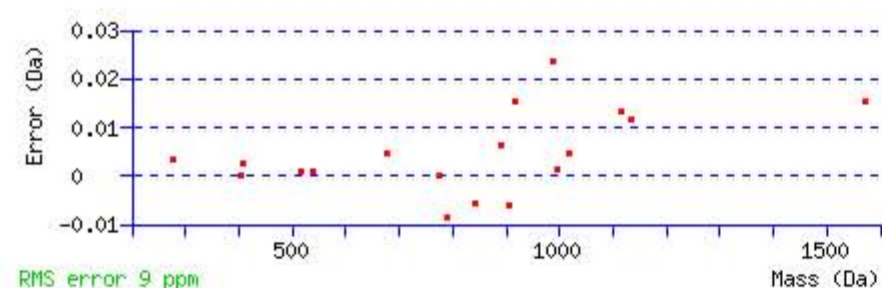
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 37 Expect: 0.001

Matches : 18/156 fragment ions using 43 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							15
2	248.069953	124.538614			230.059388	115.533332	C	2149.960963	1075.484119	2132.934414	1066.970845	2131.950398	1066.478837	14
3	<b>408.100602</b>	204.553939			390.090037	195.548657	C	1989.930314	<b>995.468795</b>	1972.903765	<b>986.955521</b>	1971.919749	986.463512	13
4	<b>537.143195</b>	269.075236			519.132630	260.069953	E	1829.899665	<b>915.453470</b>	1812.873116	906.940196	1811.889100	<b>906.448188</b>	12
5	666.185788	333.596532			648.175223	324.591250	E	1700.857072	850.932174	1683.830523	842.418899	1682.846507	<b>841.926891</b>	11
6	1105.411114	553.209195	1088.384565	544.695921	1087.400549	544.203913	Q	<b>1571.814479</b>	786.410877	1554.787930	777.897603	1553.803914	777.405595	10
7	1219.454041	610.230659	1202.427492	601.717384	1201.443476	601.225376	N	<b>1132.589153</b>	566.798214	<b>1115.562604</b>	558.284940	1114.578588	557.792932	9
8	1347.549004	674.278140	1330.522455	665.764866	1329.538439	665.272858	K	<b>1018.546226</b>	509.776751	1001.519677	501.263476	1000.535661	500.771468	8
9	1446.617418	723.812347	1429.590869	715.299073	1428.606853	714.807065	V	<b>890.451263</b>	445.729269	873.424714	437.215995	872.440698	436.723987	7
10	1560.660345	780.833811	1543.633796	772.320536	1542.649780	771.828528	N	<b>791.382849</b>	396.195062	<b>774.356300</b>	387.681788	773.372284	387.189780	6
11	1720.690994	860.849135	1703.664445	852.335861	1702.680429	851.843853	C	<b>677.339922</b>	339.173599	660.313373	330.660324	659.329357	330.168316	5
12	1833.775058	917.391167	1816.748509	908.877893	1815.764493	908.385885	L	<b>517.309273</b>	259.158274	500.282724	250.645000	499.298708	250.152992	4
13	1961.833636	981.420456	1944.807087	972.907182	1943.823071	972.415174	Q	<b>404.225209</b>	202.616242	387.198660	194.102968	386.214644	193.610960	3
14	2062.881315	1031.944295	2045.854766	1023.431021	2044.870750	1022.939013	T	<b>276.166631</b>	138.586953	259.140082	130.073679	258.156066	129.581671	2
15							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SCCEEQNKVNCLQTR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$	Delta	Sequence
37.2	2235.985703	-0.002141	<a href="#">SCCEEQNKVNCLQTR</a>
0.4	2235.985703	-0.002141	<a href="#">SCCEEQNKVNCLQTR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **HQFLLTGDTQGR**

Found in **A1BG\_HUMAN**, Alpha-1B-glycoprotein OS=Homo sapiens GN=A1BG PE=1 SV=4

Match to Query 33363: 1682.851032 from(561.957620,3+) rtinseconds(1959) index(18828)

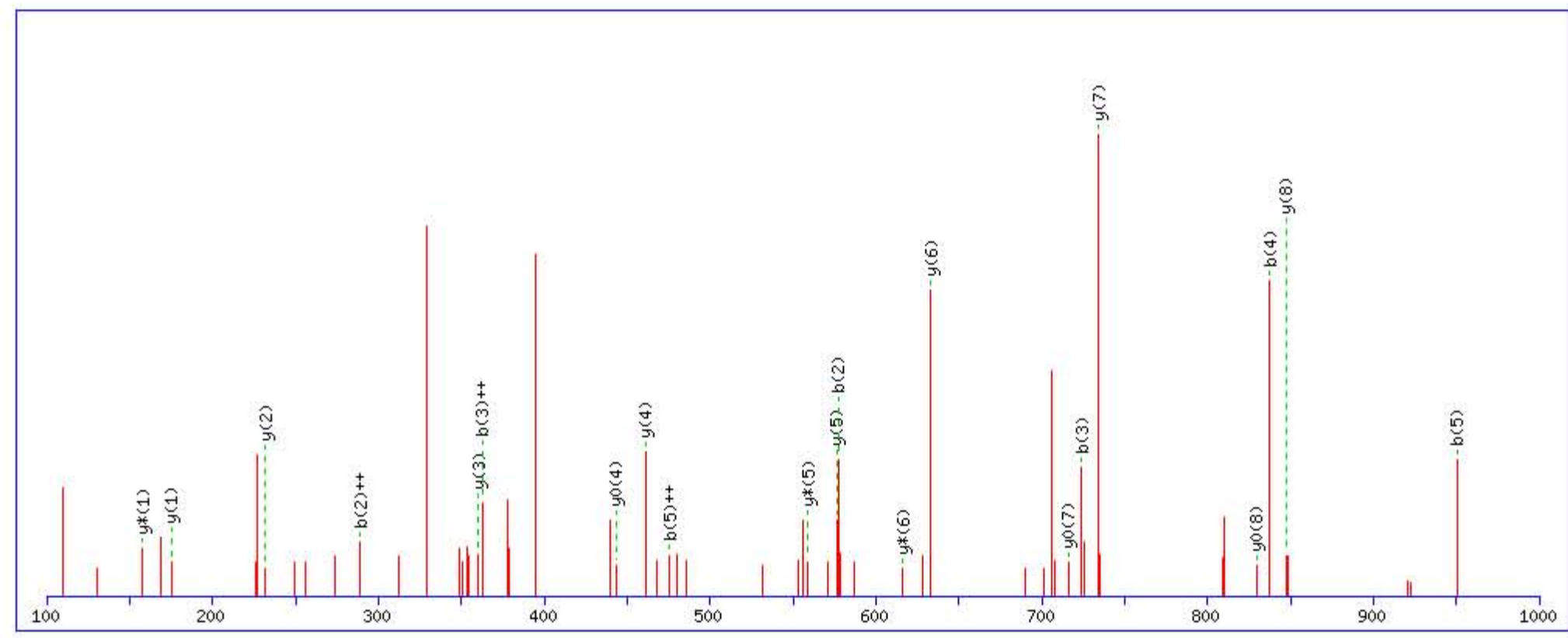
Title: Locus:1.1.1.3248.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1682.856277

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

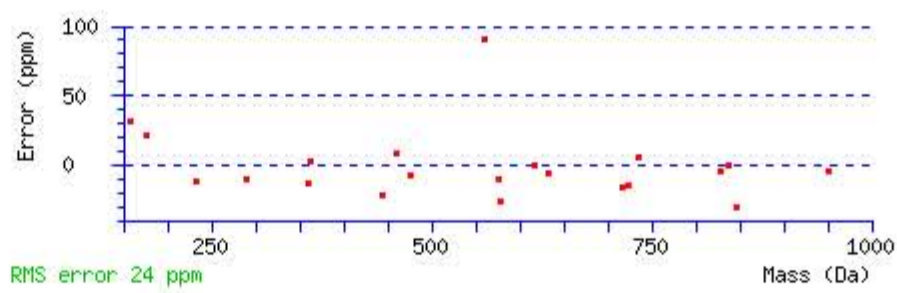
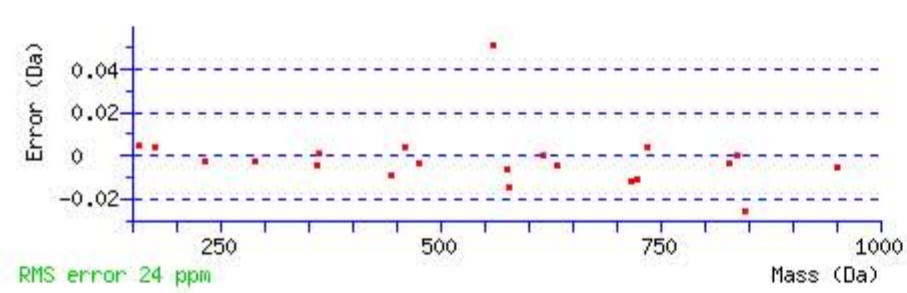
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 29 Expect: 0.0047

Matches : 21/114 fragment ions using 56 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							12
2	577.291514	289.149395	560.264965	280.636121			Q	1546.804627	773.905951	1529.778078	765.392677	1528.794062	764.900669	11
3	724.359928	362.683602	707.333379	354.170327			F	1107.579301	554.293288	1090.552752	545.780014	1089.568736	545.288006	10
4	837.443992	419.225634	820.417443	410.712359			L	960.510887	480.759081	943.484338	472.245807	942.500322	471.753799	9
5	950.528056	475.767666	933.501507	467.254392			L	847.426823	424.217049	830.400274	415.703775	829.416258	415.211767	8
6	1051.575735	526.291505	1034.549186	517.778231	1033.565170	517.286223	T	734.342759	367.675017	717.316210	359.161743	716.332194	358.669735	7
7	1108.597199	554.802237	1091.570650	546.288963	1090.586634	545.796955	G	633.295080	317.151178	616.268531	308.637903	615.284515	308.145895	6
8	1223.624142	612.315709	1206.597593	603.802435	1205.613577	603.310426	D	576.273616	288.640446	559.247067	280.127171	558.263051	279.635163	5
9	1324.671821	662.839548	1307.645272	654.326274	1306.661256	653.834266	T	461.246673	231.126974	444.220124	222.613700	443.236108	222.121692	4
10	1452.730399	726.868837	1435.703850	718.355563	1434.719834	717.863555	Q	360.198994	180.603135	343.172445	172.089860			3
11	1509.751863	755.379569	1492.725314	746.866295	1491.741298	746.374287	G	232.140416	116.573846	215.113867	108.060571			2
12							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [HQFLLTGDTQGR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
28.7	1682.856277	-0.005245	<a href="#">HQFLLTGDTQGR</a>
3.7	1682.845032	0.006000	<a href="#">APEHCELVVDLFVR</a>
0.7	1682.845032	0.006000	<a href="#">QFHLTDDLLR</a>



# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **HQFLLTGDTQGR**

Found in **A1BG\_HUMAN**, Alpha-1B-glycoprotein OS=Homo sapiens GN=A1BG PE=1 SV=4

Match to Query 33366: 1682.861202 from(561.961010,3+) rtinseconds(1954) index(4497)

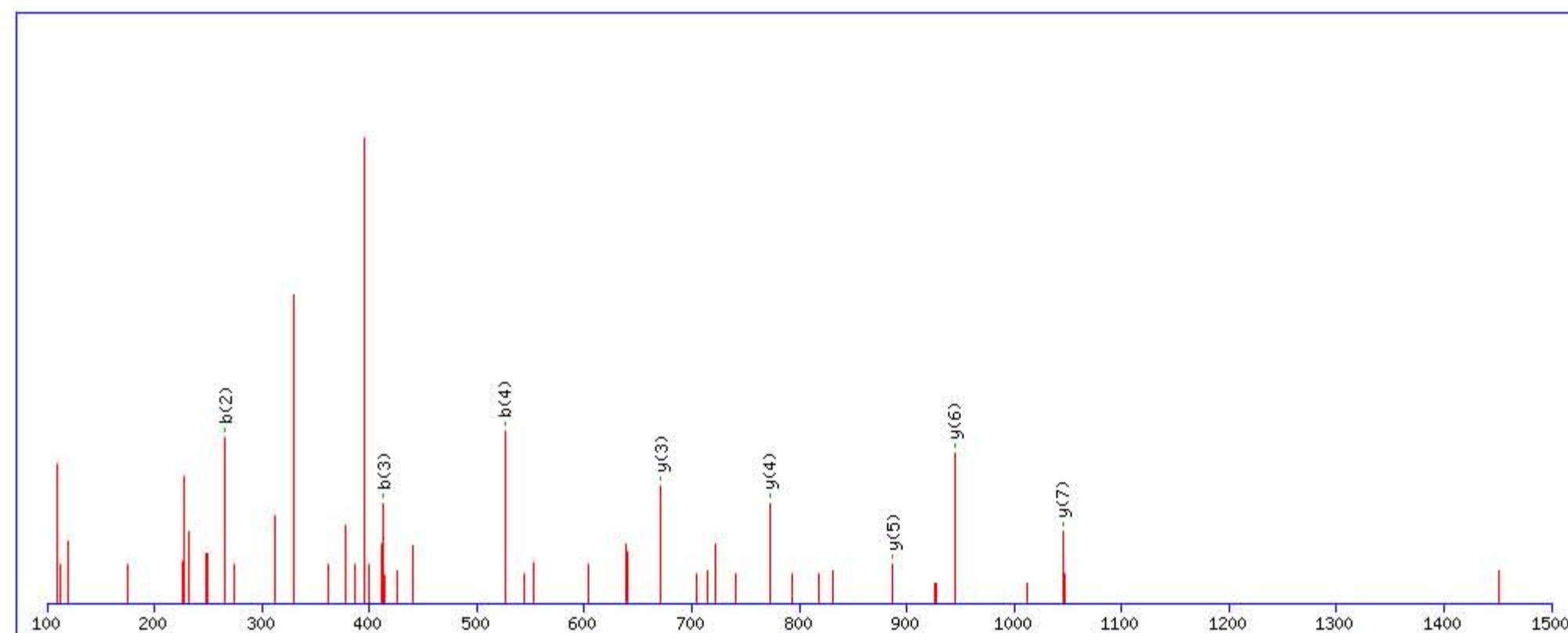
Title: Locus:1.1.1.3200.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1682.856277

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

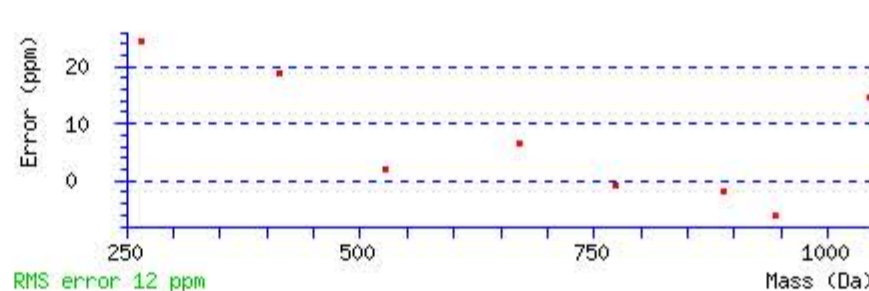
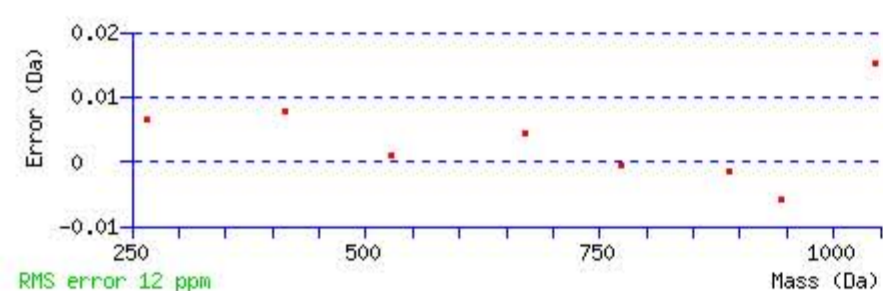
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 37 Expect: 0.0047

Matches : 8/114 fragment ions using 11 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							12
2	<b>266.124766</b>	133.566021	249.098217	125.052746			Q	1546.804627	773.905952	1529.778078	765.392677	1528.794062	764.900669	11
3	<b>413.193180</b>	207.100228	396.166631	198.586953			F	1418.746049	709.876663	1401.719500	701.363388	1400.735484	700.871380	10
4	<b>526.277244</b>	263.642260	509.250695	255.128986			L	1271.677635	636.342456	1254.651086	627.829181	1253.667070	627.337173	9
5	639.361308	320.184292	622.334759	311.671018			L	1158.593571	579.800424	1141.567022	571.287149	1140.583006	570.795141	8
6	740.408987	370.708132	723.382438	362.194857	722.398422	361.702849	T	<b>1045.509507</b>	523.258392	1028.482958	514.745117	1027.498942	514.253109	7
7	797.430451	399.218864	780.403902	390.705589	779.419886	390.213581	G	<b>944.461828</b>	472.734552	927.435279	464.221278	926.451263	463.729270	6
8	912.457394	456.732335	895.430845	448.219061	894.446829	447.727053	D	<b>887.440364</b>	444.223820	870.413815	435.710546	869.429799	435.218538	5
9	1013.505073	507.256175	996.478524	498.742900	995.494508	498.250892	T	<b>772.413421</b>	386.710349	755.386872	378.197074	754.402856	377.705066	4
10	1452.730399	726.868838	1435.703850	718.355563	1434.719834	717.863555	Q	<b>671.365742</b>	336.186509	654.339193	327.673235			3
11	1509.751863	755.379570	1492.725314	746.866295	1491.741298	746.374287	G	232.140416	116.573846	215.113867	108.060571			2
12							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **HQFLLTGDTQGR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
37.3	1682.856277	0.004925	<a href="#">HQFLLTGDTQGR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VTLTCVAPLSGVDFQLR**

Found in **A1BG\_HUMAN**, Alpha-1B-glycoprotein OS=Homo sapiens GN=A1BG PE=1 SV=4

Match to Query 43049: 2186.176572 from(729.732800,3+) rtinseconds(2759) index(9051)

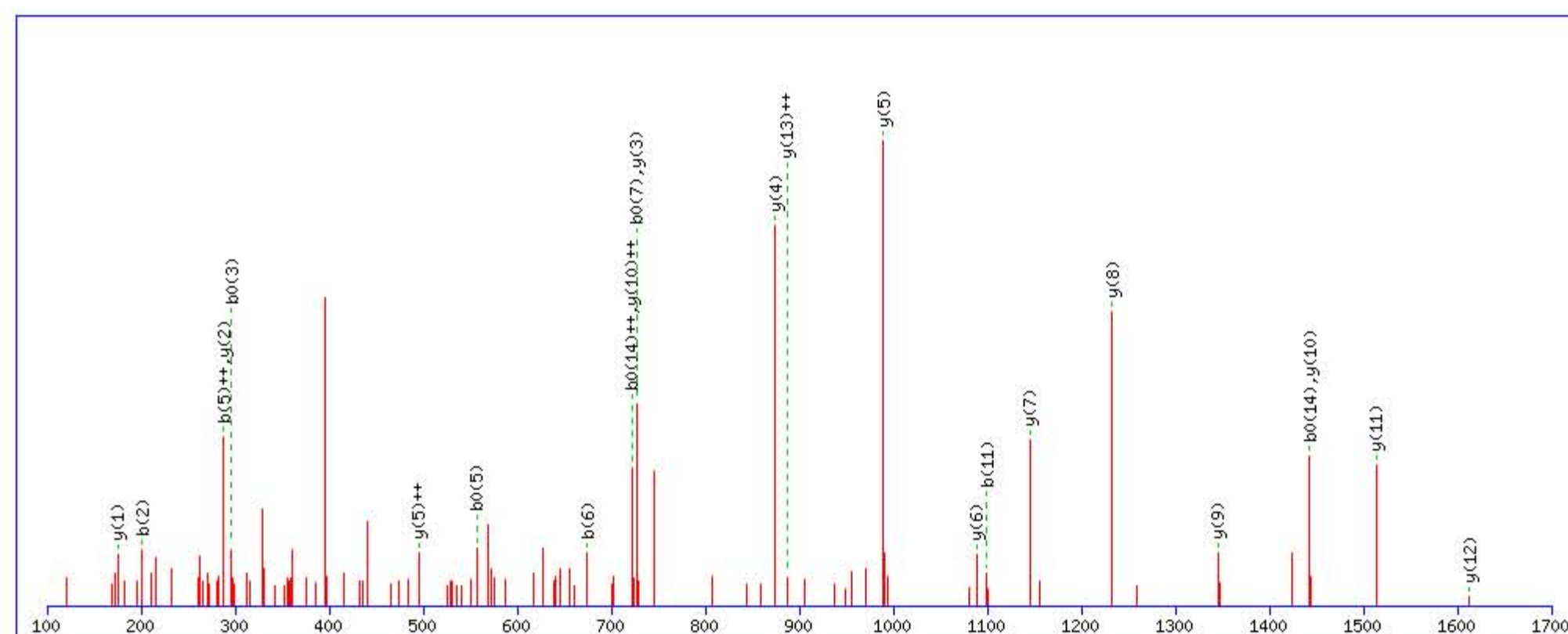
Title: Locus:1.1.1.3480.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2186.159195

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

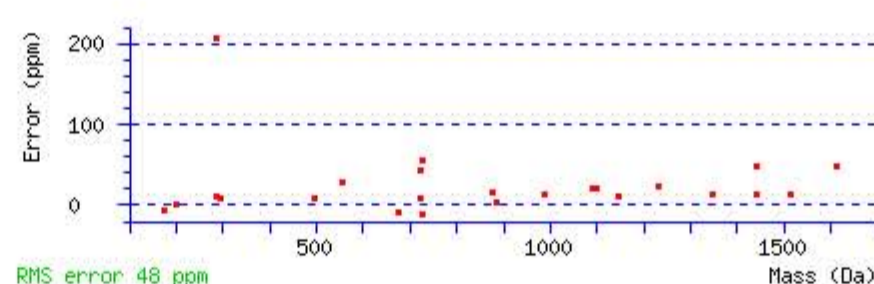
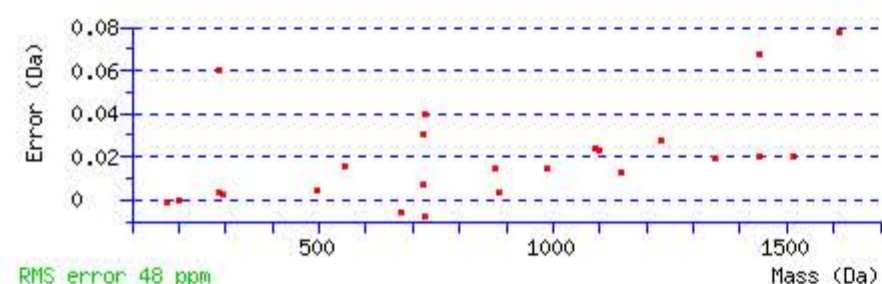
Variable modifications:

Q15 : Biotin:Thermo-21345 (Q)

Ions Score: 93 Expect: 7.1e-009

Matches : 24/154 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							17
2	<b>201.123369</b>	101.065322			183.112804	92.060040	T	2088.098032	1044.552654	2071.071483	1036.039379	2070.087467	1035.547371	16
3	314.207433	157.607354			<b>296.196868</b>	148.602072	L	1987.050353	994.028815	1970.023804	985.515540	1969.039788	985.023532	15
4	415.255112	208.131194			397.244547	199.125912	T	1873.966289	937.486783	1856.939740	928.973508	1855.955724	928.481500	14
5	575.285761	<b>288.146519</b>			<b>557.275196</b>	279.141236	C	1772.918610	<b>886.962943</b>	1755.892061	878.449669	1754.908045	877.957661	13
6	<b>674.354175</b>	337.680726			656.343610	328.675443	V	<b>1612.887961</b>	806.947619	1595.861412	798.434344	1594.877396	797.942336	12
7	745.391289	373.199283			<b>727.380724</b>	364.194000	A	<b>1513.819547</b>	757.413412	1496.792998	748.900137	1495.808982	748.408129	11
8	842.444053	421.725665			824.433488	412.720382	P	<b>1442.782433</b>	<b>721.894855</b>	1425.755884	713.381580	1424.771868	712.889572	10
9	955.528117	478.267697			937.517552	469.262414	L	<b>1345.729669</b>	673.368473	1328.703120	664.855198	1327.719104	664.363190	9
10	1042.560145	521.783711			1024.549580	512.778428	S	<b>1232.645605</b>	616.826441	1215.619056	608.313166	1214.635040	607.821158	8
11	<b>1099.581609</b>	550.294443			1081.571044	541.289160	G	<b>1145.613577</b>	573.310427	1128.587028	564.797152	1127.603012	564.305144	7
12	1198.650023	599.828650			1180.639458	590.823367	V	<b>1088.592113</b>	544.799695	1071.565564	536.286420	1070.581548	535.794412	6
13	1313.676966	657.342121			1295.666401	648.336839	D	<b>989.523699</b>	<b>495.265488</b>	972.497150	486.752213	971.513134	486.260205	5
14	1460.745380	730.876328			<b>1442.734815</b>	<b>721.871046</b>	F	<b>874.496756</b>	437.752016	857.470207	429.238742			4
15	1899.970706	950.488991	1882.944157	941.975717	1881.960141	941.483709	Q	<b>727.428342</b>	364.217809	710.401793	355.704535			3
16	2013.054770	1007.031023	1996.028221	998.517749	1995.044205	998.025741	L	<b>288.203016</b>	144.605146	271.176467	136.091872			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549840			1



NCBI BLAST search of **VTLTCVAPLSGVDFQLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
92.7	2186.159195	0.017377	<a href="#">VTLTCVAPLSGVDFQLR</a>
5.5	2186.188126	-0.011554	<a href="#">KLTSHQMLSSTEILKWLK</a>
2.2	2186.188995	-0.012423	<a href="#">QAVAYRQMSLLLR</a>
0.7	2186.180267	-0.003695	<a href="#">RKGDLSPAELMMLTIGDVIK</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **FDPSLTQR**

Found in **A2AP\_HUMAN**, Alpha-2-antiplasmin OS=Homo sapiens GN=SERPINF2 PE=1 SV=3

Match to Query 19637: 1273.651868 from(637.833210,2+) rtinseconds(1951) index(4478)

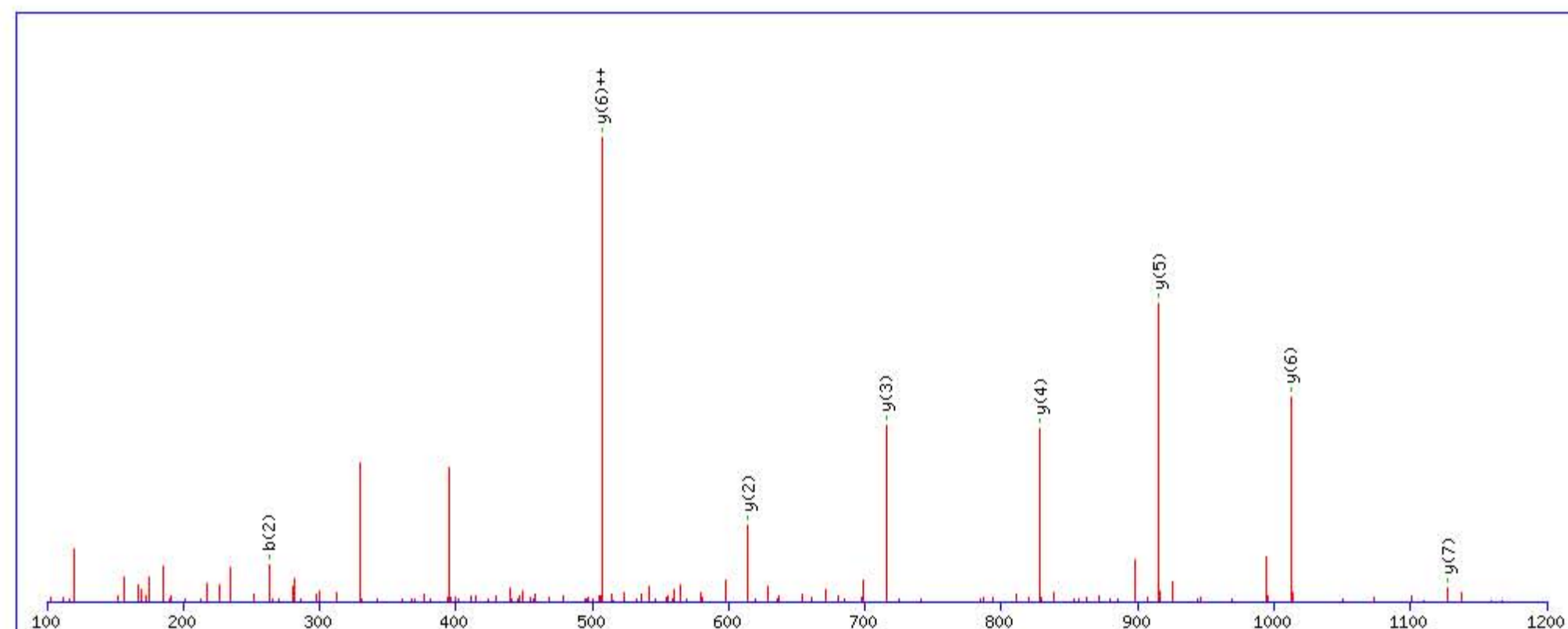
Title: Locus:1.1.1.3199.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1273.648895

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

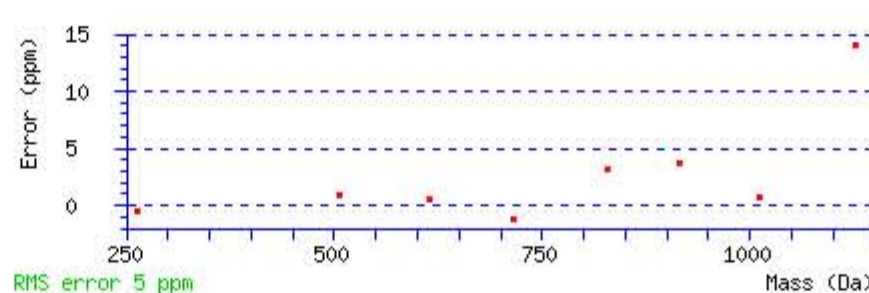
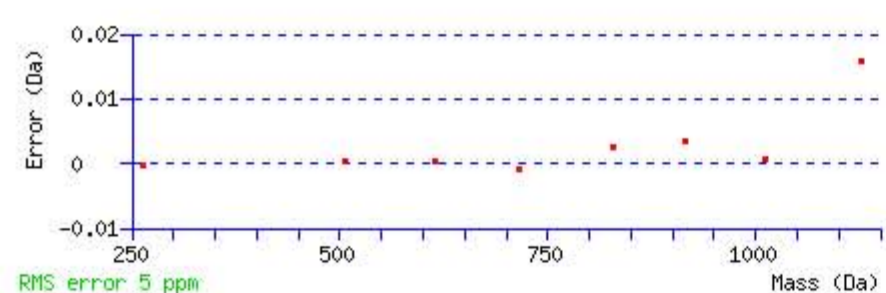
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 48 Expect: 0.00042

Matches : 8/66 fragment ions using 11 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							8
2	<b>263.102633</b>	132.054954			245.092068	123.049672	D	<b>1127.587756</b>	564.297516	1110.561207	555.784242	1109.577191	555.292233	7
3	360.155397	180.581336			342.144832	171.576054	P	<b>1012.560813</b>	<b>506.784045</b>	995.534264	498.270770	994.550248	497.778762	6
4	447.187425	224.097350			429.176860	215.092068	S	<b>915.508049</b>	458.257663	898.481500	449.744388	897.497484	449.252380	5
5	560.271489	280.639383			542.260924	271.634100	L	<b>828.476021</b>	414.741649	811.449472	406.228374	810.465456	405.736366	4
6	661.319168	331.163222			643.308603	322.157940	T	<b>715.391957</b>	358.199617	698.365408	349.686342	697.381392	349.194334	3
7	1100.544494	550.775885	1083.517945	542.262611	1082.533929	541.770603	Q	<b>614.344278</b>	307.675777	597.317729	299.162503			2
8							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **FDPSLTQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
48.2	1273.648895	0.002973	<a href="#">FDPSLTQR</a>
21.2	1273.670654	-0.018786	<a href="#">FDIAIYYTR</a>
17.4	1273.633621	0.018247	<a href="#">ETESLTQR</a>
5.7	1273.652695	-0.000827	<a href="#">EHQAHLALAR</a>
4.0	1273.670013	-0.018145	<a href="#">DLVTMVEQLAR</a>
0.9	1273.670029	-0.018161	<a href="#">TDPSILGGMIVR</a>
0.0	1273.648682	0.003186	<a href="#">SASSPSPRRSSR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EQQDSPGNK**

Found in **A2AP\_HUMAN**, Alpha-2-antiplasmin OS=Homo sapiens GN=SERPINF2 PE=1 SV=3

Match to Query 20555: 1312.592628 from(657.303590,2+) rtinseconds(1208) index(14391)

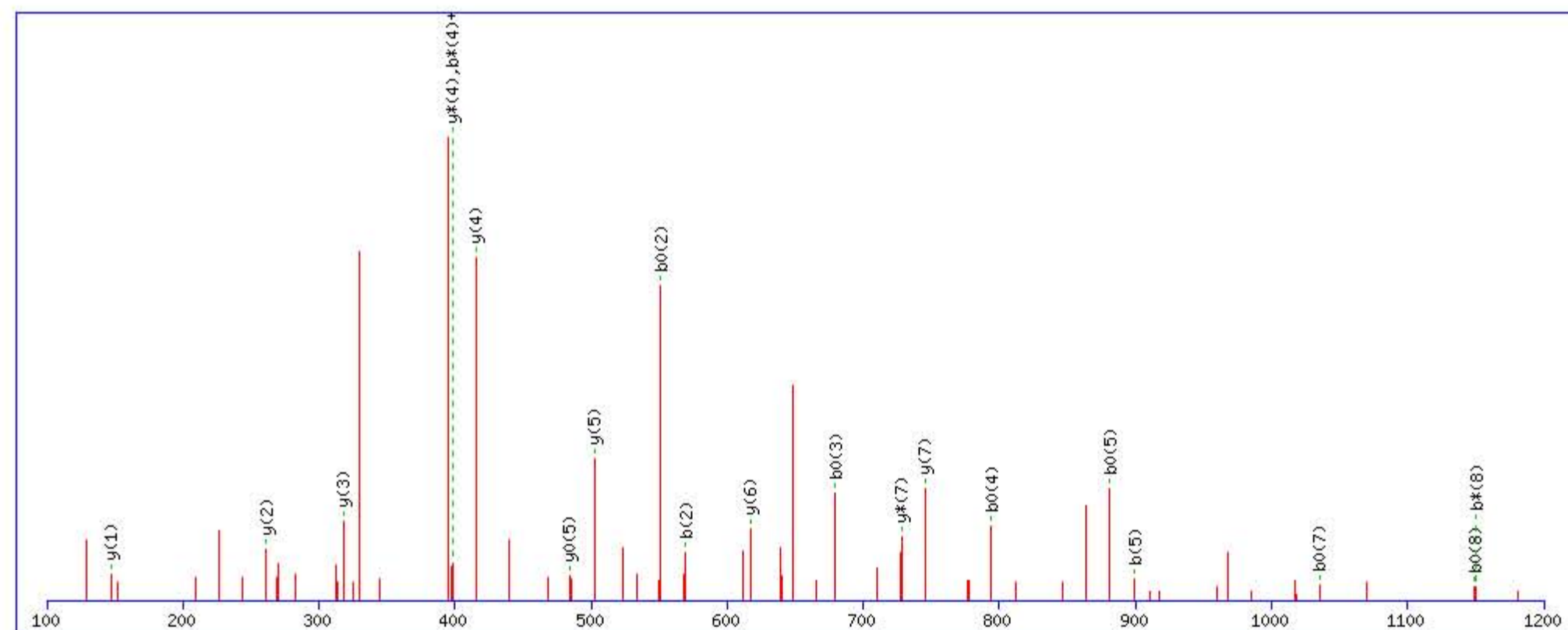
Title: Locus:1.1.1.2986.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1312.608139

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

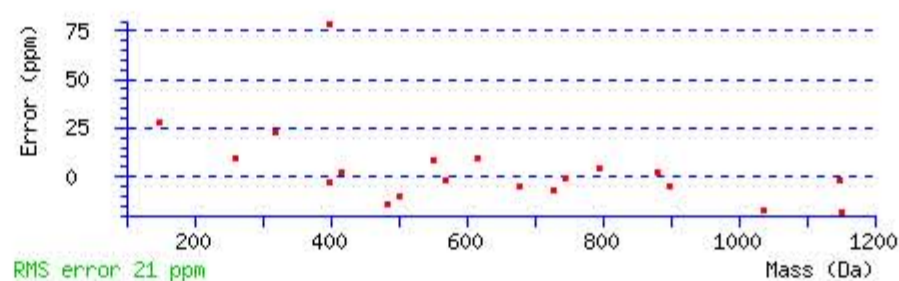
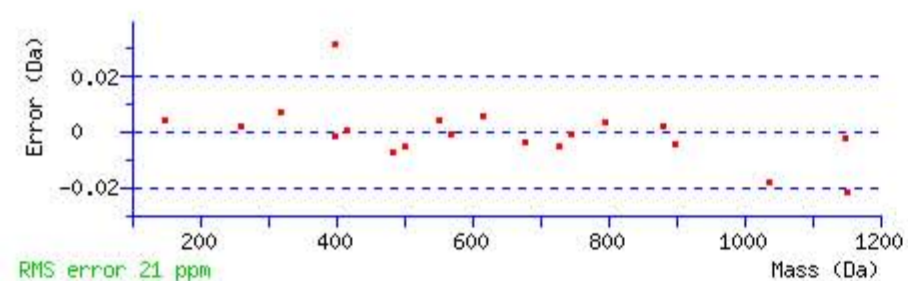
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 37 Expect: 0.00045

Matches : 20/86 fragment ions using 41 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							9
2	<b>569.275195</b>	285.141236	552.248646	276.627961	<b>551.264630</b>	276.135953	Q	1184.572834	592.790055	1167.546285	584.276780	1166.562269	583.784772	8
3	697.333773	349.170525	680.307224	340.657250	<b>679.323208</b>	340.165242	Q	<b>745.347508</b>	373.177392	<b>728.320959</b>	364.664117	727.336943	364.172109	7
4	812.360716	406.683996	795.334167	<b>398.170722</b>	<b>794.350151</b>	397.678714	D	<b>617.288930</b>	309.148103	600.262381	300.634828	599.278365	300.142820	6
5	<b>899.392744</b>	450.200010	882.366195	441.686736	<b>881.382179</b>	441.194728	S	<b>502.261987</b>	251.634631	485.235438	243.121357	<b>484.251422</b>	242.629349	5
6	996.445508	498.726392	979.418959	490.213118	978.434943	489.721110	P	<b>415.229959</b>	208.118617	<b>398.203410</b>	199.605343			4
7	1053.466972	527.237124	1036.440423	518.723850	<b>1035.456407</b>	518.231841	G	<b>318.177195</b>	159.592235	301.150646	151.078961			3
8	1167.509899	584.258587	<b>1150.483350</b>	575.745313	<b>1149.499334</b>	575.253305	N	<b>261.155731</b>	131.081503	244.129182	122.568229			2
9							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EQQDSPGNK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
36.8	1312.608139	-0.015511	<a href="#">EQQDSPGNK</a>
18.7	1312.608139	-0.015511	<a href="#">EQQDSPGNK</a>
1.1	1312.579178	0.013450	<a href="#">QDCETFGMVVK</a>
0.2	1312.601624	-0.008996	<a href="#">CGECGKAFTK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LGNQEPGGQTALK**

Found in **A2AP\_HUMAN**, Alpha-2-antiplasmin OS=Homo sapiens GN=SERPINF2 PE=1 SV=3

Match to Query 31532: 1622.840608 from(812.427580,2+) rtinseconds(1649) index(29781)

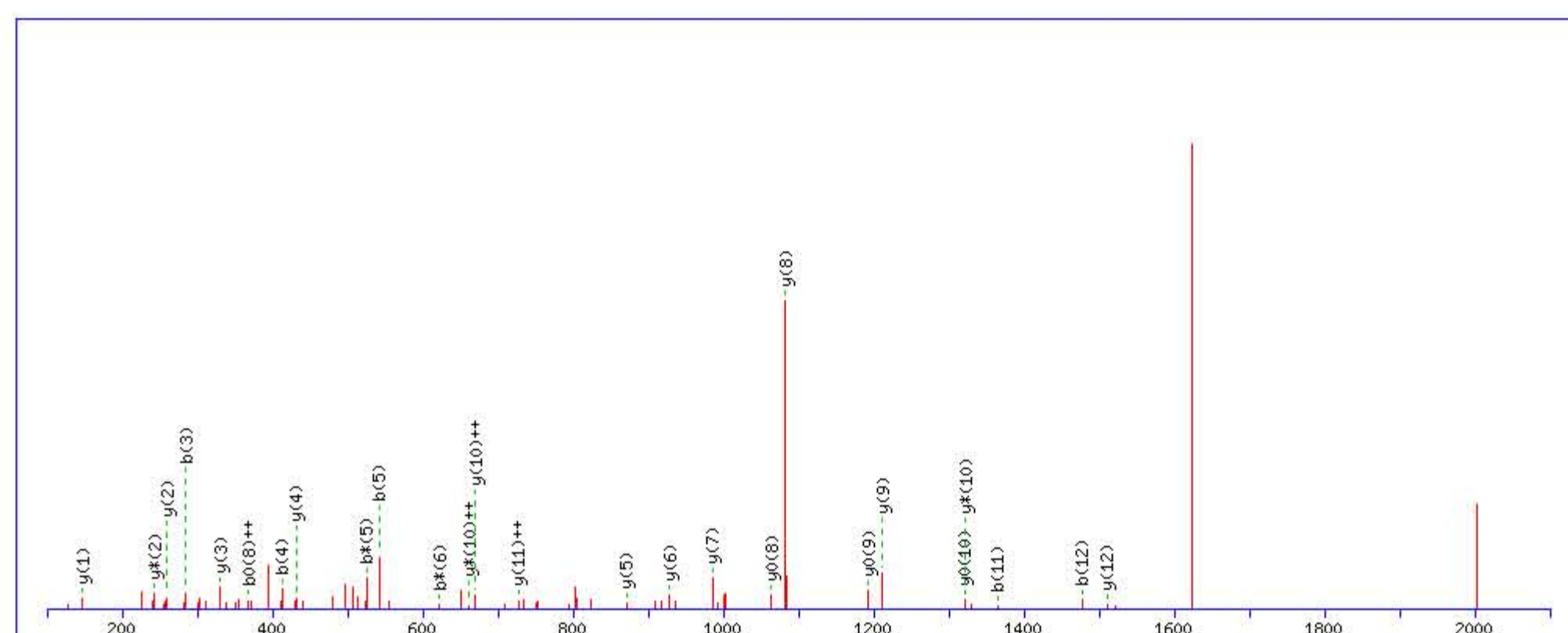
Title: Locus:1.1.1.3237.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1622.845016

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

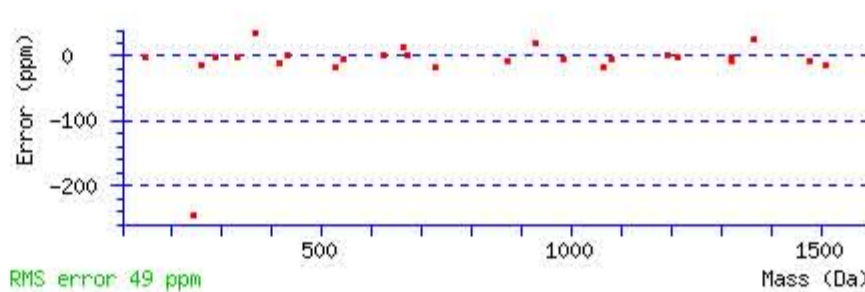
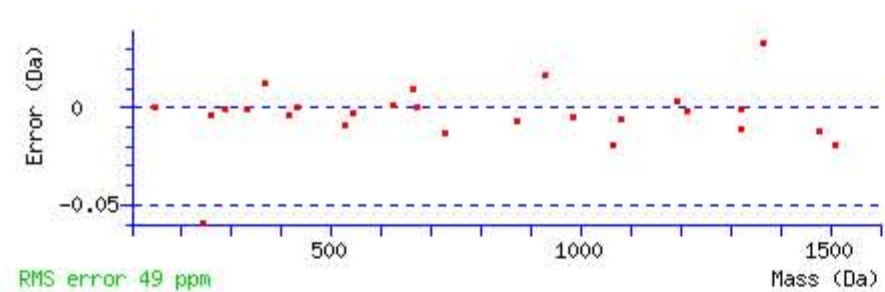
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 55 Expect: 4.6e-005

Matches : 26/126 fragment ions using 58 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							13
2	171.112804	86.060040					G	1510.768241	755.887759	1493.741692	747.374484	1492.757676	746.882476	12
3	285.155731	143.081504	268.129182	134.568229			N	1453.746777	727.377027	1436.720228	718.863752	1435.736212	718.371744	11
4	413.214309	207.110793	396.187760	198.597518			Q	1339.703850	670.355563	1322.677301	661.842289	1321.693285	661.350281	10
5	542.256902	271.632089	525.230353	263.118815	524.246337	262.626807	E	1211.645272	606.326274	1194.618723	597.813000	1193.634707	597.320991	9
6	639.309666	320.158471	622.283117	311.645197	621.299101	311.153189	P	1082.602679	541.804978	1065.576130	533.291703	1064.592114	532.799695	8
7	696.331130	348.669203	679.304581	340.155929	678.320565	339.663921	G	985.549915	493.278596	968.523366	484.765321	967.539350	484.273313	7
8	753.352594	377.179935	736.326045	368.666661	735.342029	368.174653	G	928.528451	464.767864	911.501902	456.254589	910.517886	455.762581	6
9	1192.577920	596.792598	1175.551371	588.279324	1174.567355	587.787316	Q	871.506987	436.257132	854.480438	427.743857	853.496422	427.251849	5
10	1293.625599	647.316438	1276.599050	638.803163	1275.615034	638.311155	T	432.281661	216.644468	415.255112	208.131194	414.271096	207.639186	4
11	1364.662713	682.834995	1347.636164	674.321720	1346.652148	673.829712	A	331.233982	166.120629	314.207433	157.607354			3
12	1477.746777	739.377027	1460.720228	730.863752	1459.736212	730.371744	L	260.196868	130.602072	243.170319	122.088797			2
13							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LGNQEPGGQTALK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
54.6	1622.845016	-0.004408	<a href="#">LGNQEPGGQTALK</a>
10.8	1622.845016	-0.004408	<a href="#">LGNQEPGGQTALK</a>
7.8	1622.858917	-0.018309	<a href="#">SVLLMELEVNYGLK</a>
6.2	1622.820511	0.020097	<a href="#">FPPEASGYLHIGHAK</a>
4.3	1622.833771	0.006837	<a href="#">LDLAGRDLTDYLMK</a>
1.5	1622.849045	-0.008437	<a href="#">IPMPDFDLHLKGPKE</a>
0.9	1622.860260	-0.019652	<a href="#">EHSAFQAPAVKK</a>
0.9	1622.819855	0.020753	<a href="#">NSSPRMPHLAVATDK</a>
0.3	1622.864288	-0.023680	<a href="#">FPLPSMYRALVWK</a>
0.0	1622.827713	0.012895	<a href="#">GLTPREFNSYGARR</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **QLTSGPNQEQVSPLTLK**

Found in **A2AP\_HUMAN**, Alpha-2-antiplasmin OS=Homo sapiens GN=SERPINF2 PE=1 SV=3

Match to Query 33964: 2574.425112 from(859.148980,3+) rtinseconds(2690) index(8646)

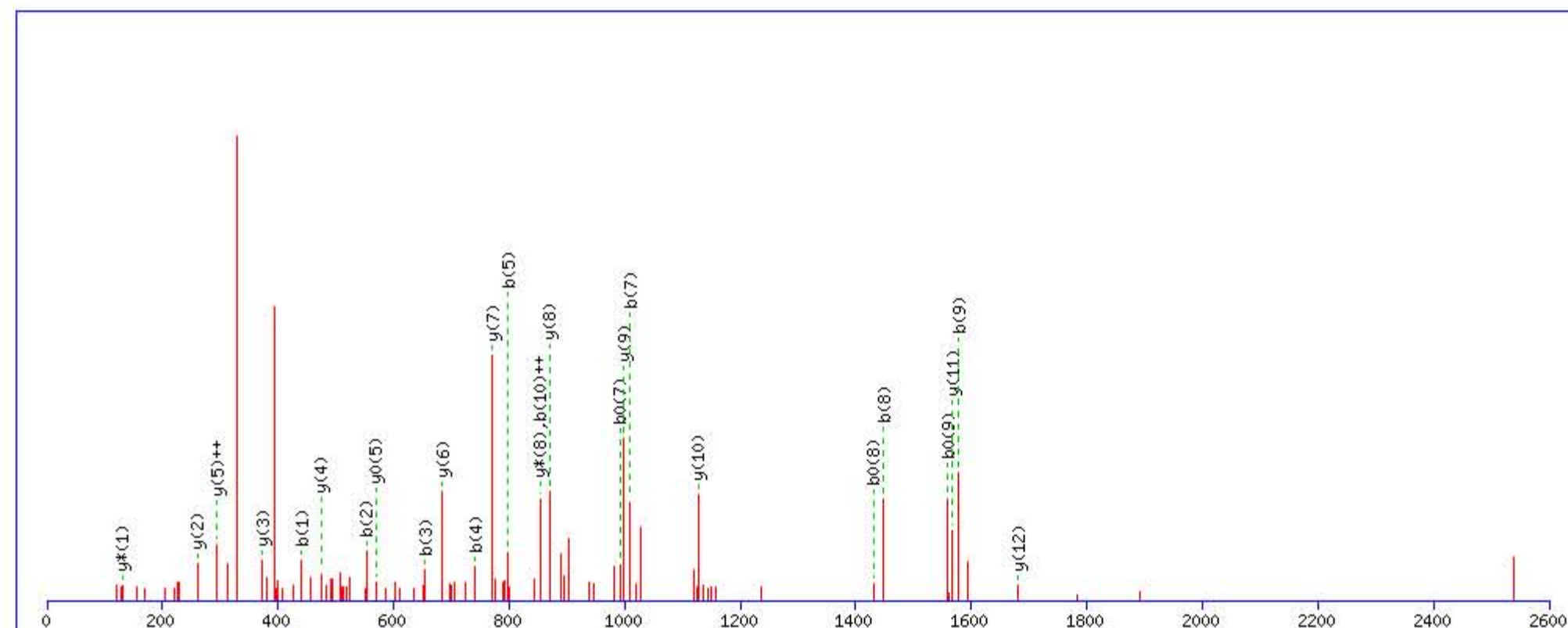
Title: Locus:1.1.1.3456.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2574.391342

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

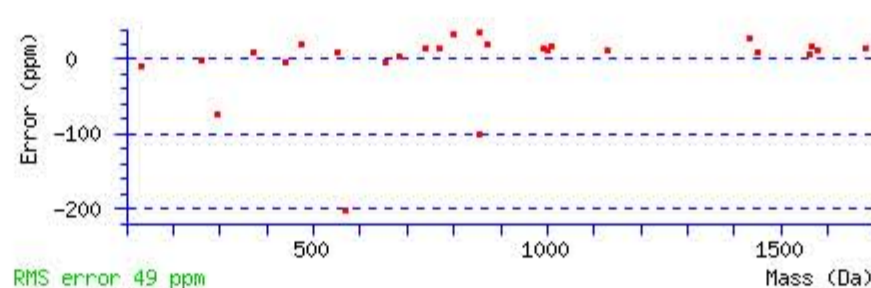
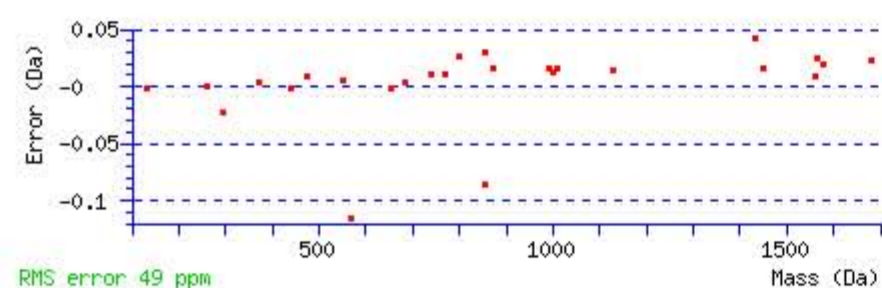
Q1 : Biotin:Thermo-21345 (Q)

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 68 Expect: 3e-006

Matches : 26/194 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>440.232602</b>	220.619939	423.206053	212.106664			Q							18
2	<b>553.316666</b>	277.161971	536.290117	268.648697			L	2136.173304	1068.590290	2119.146755	1060.077015	2118.162739	1059.585007	17
3	<b>654.364345</b>	327.685811	637.337796	319.172536	636.353780	318.680528	T	2023.089240	1012.048258	2006.062691	1003.534984	2005.078675	1003.042976	16
4	<b>741.396373</b>	371.201825	724.369824	362.688550	723.385808	362.196542	S	1922.041561	961.524419	1905.015012	953.011144	1904.030996	952.519136	15
5	<b>798.417837</b>	399.712557	781.391288	391.199282	780.407272	390.707274	G	1835.009533	918.008405	1817.982984	909.495130	1816.998968	909.003122	14
6	895.470601	448.238939	878.444052	439.725664	877.460036	439.233656	P	1777.988069	889.497673	1760.961520	880.984398	1759.977504	880.492390	13
7	<b>1009.513528</b>	505.260402	992.486979	496.747128	<b>991.502963</b>	496.255120	N	<b>1680.935305</b>	840.971291	1663.908756	832.458016	1662.924740	831.966008	12
8	<b>1448.738854</b>	724.873065	1431.712305	716.359791	<b>1430.728289</b>	715.867782	Q	<b>1566.892378</b>	783.949827	1549.865829	775.436553	1548.881813	774.944545	11
9	<b>1577.781447</b>	789.394362	1560.754898	780.881087	<b>1559.770882</b>	780.389079	E	<b>1127.667052</b>	564.337164	1110.640503	555.823890	1109.656487	555.331882	10
10	1705.840025	<b>853.423651</b>	1688.813476	844.910376	1687.829460	844.418368	Q	<b>998.624459</b>	499.815868	981.597910	491.302593	980.613894	490.810585	9
11	1804.908439	902.957858	1787.881890	894.444583	1786.897874	893.952575	V	<b>870.565881</b>	435.786579	<b>853.539332</b>	427.273304	852.555316	426.781296	8
12	1891.940467	946.473872	1874.913918	937.960597	1873.929902	937.468589	S	<b>771.497467</b>	386.252372	754.470918	377.739097	753.486902	377.247089	7
13	1988.993231	995.000254	1971.966682	986.486979	1970.982666	985.994971	P	<b>684.465439</b>	342.736358	667.438890	334.223083	666.454874	333.731075	6
14	2102.077295	1051.542285	2085.050746	1043.029011	2084.066730	1042.537003	L	587.412675	<b>294.209976</b>	570.386126	285.696701	<b>569.402110</b>	285.204693	5
15	2203.124974	1102.066125	2186.098425	1093.552850	2185.114409	1093.060842	T	<b>474.328611</b>	237.667944	457.302062	229.154669	456.318046	228.662661	4
16	2316.209038	1158.608157	2299.182489	1150.094882	2298.198473	1149.602874	L	<b>373.280932</b>	187.144104	356.254383	178.630830			3
17	2429.293102	1215.150189	2412.266553	1206.636914	2411.282537	1206.144906	L	<b>260.196868</b>	130.602072	243.170319	122.088798			2
18							K	147.112804	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of [QLTSGPNQEQVSPLTLK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
68.5	2574.391342	0.033770	<a href="#">QLTSGPNQEQVSPLTLK</a>
40.6	2574.391342	0.033770	<a href="#">QLTSGPNQEQVSPLTLK</a>
5.2	2574.391342	0.033770	<a href="#">QLTSGPNQEQVSPLTLK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LGNQEPGGQTALK**

Found in **A2AP\_HUMAN**, Alpha-2-antiplasmin OS=Homo sapiens GN=SERPINF2 PE=1 SV=3

Match to Query 38078: 1934.009622 from(645.677150,3+) rtinseconds(2001) index(46077)

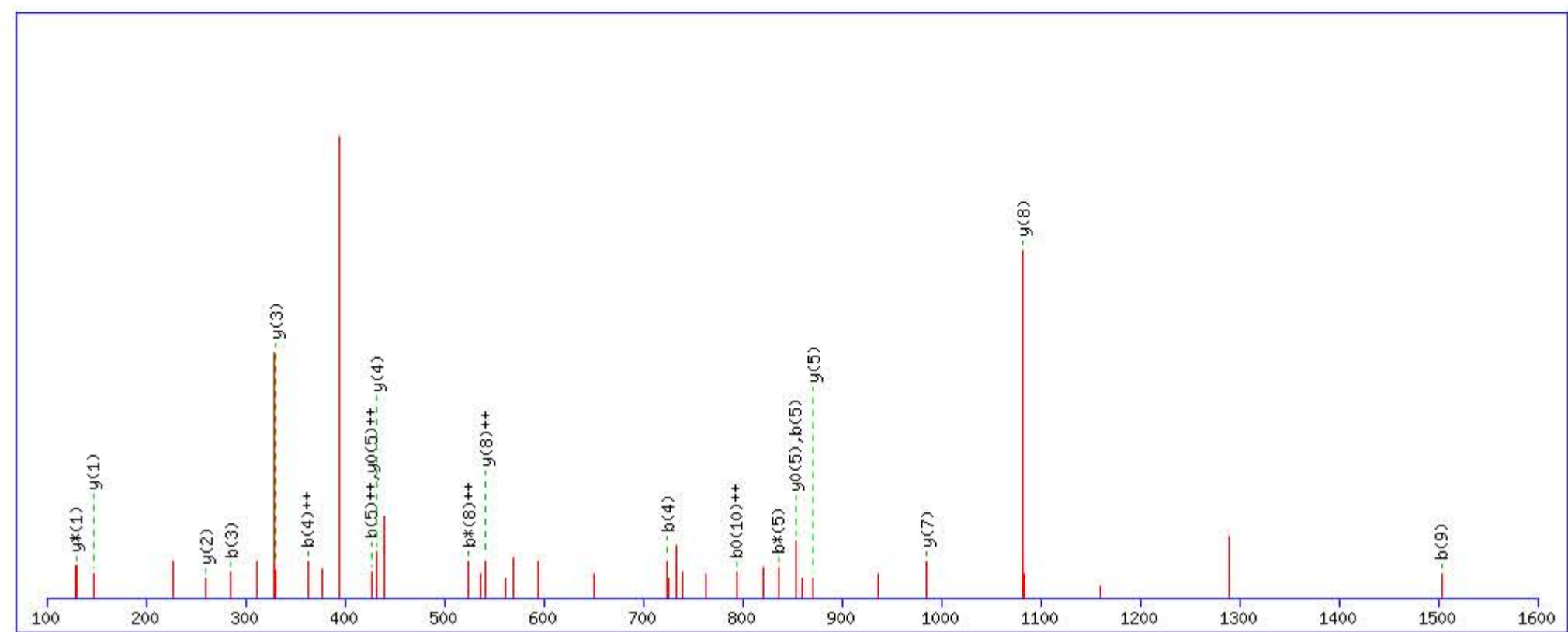
Title: Locus:1.1.1.3409.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1934.011765

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

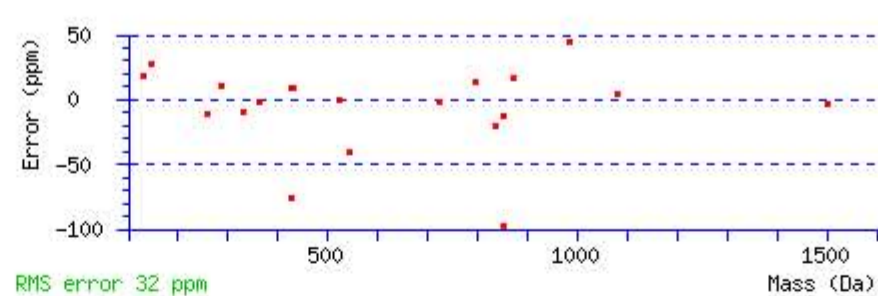
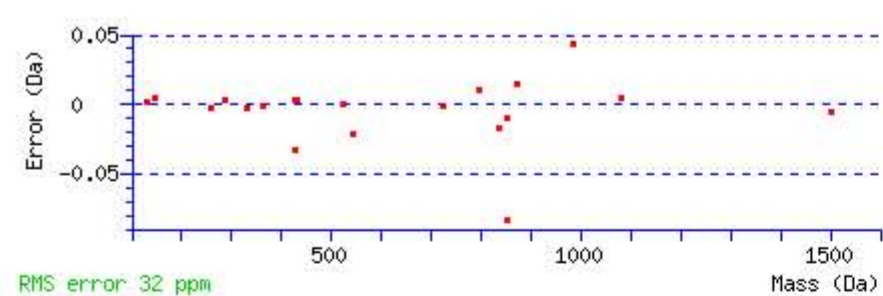
Q4 : Biotin:Thermo-21345 (Q)

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.065

Matches : 20/126 fragment ions using 40 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							13
2	171.112804	86.060040					G	1821.934989	911.471133	1804.908440	902.957858	1803.924424	902.465850	12
3	<b>285.155731</b>	143.081504	268.129182	134.568229			N	1764.913525	882.960400	1747.886976	874.447126	1746.902960	873.955118	11
4	<b>724.381057</b>	<b>362.694167</b>	707.354508	354.180892			Q	1650.870598	825.938937	1633.844049	817.425663	1632.860033	816.933654	10
5	<b>853.423650</b>	<b>427.215463</b>	<b>836.397101</b>	418.702189	835.413085	418.210181	E	1211.645272	606.326274	1194.618723	597.813000	1193.634707	597.320991	9
6	950.476414	475.741845	933.449865	467.228571	932.465849	466.736563	P	<b>1082.602679</b>	<b>541.804977</b>	1065.576130	533.291703	1064.592114	532.799695	8
7	1007.497878	504.252577	990.471329	495.739303	989.487313	495.247295	G	<b>985.549915</b>	493.278595	968.523366	484.765321	967.539350	484.273313	7
8	1064.519342	532.763309	1047.492793	<b>524.250035</b>	1046.508777	523.758027	G	928.528451	464.767863	911.501902	456.254589	910.517886	455.762581	6
9	<b>1503.744668</b>	752.375972	1486.718119	743.862698	1485.734103	743.370690	Q	<b>871.506987</b>	436.257132	854.480438	427.743857	<b>853.496422</b>	<b>427.251849</b>	5
10	1604.792347	802.899812	1587.765798	794.386537	1586.781782	<b>793.894529</b>	T	<b>432.281661</b>	216.644468	415.255112	208.131194	414.271096	207.639186	4
11	1675.829461	838.418369	1658.802912	829.905094	1657.818896	829.413086	A	<b>331.233982</b>	166.120629	314.207433	157.607354			3
12	1788.913525	894.960400	1771.886976	886.447126	1770.902960	885.955118	L	<b>260.196868</b>	130.602072	243.170319	122.088797			2
13							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **LGNQEPGGQTALK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
25.7	1934.011765	-0.002143	<a href="#">LGNQEPGGQTALK</a>
13.7	1934.032867	-0.023245	<a href="#">KSRPLTGLMDLAKEMTK</a>
1.7	1933.982758	0.026864	<a href="#">TVSKLNQEIWMMK</a>
1.3	1933.982758	0.026864	<a href="#">TVSKLNQEIWMMK</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EQQDSPGNKDFLQSLK**

Found in **A2AP\_HUMAN**, Alpha-2-antiplasmin OS=Homo sapiens GN=SERPINF2 PE=1 SV=3

Match to Query 42233: 2144.069172 from(715.697000,3+) rtinseconds(2080) index(5364)

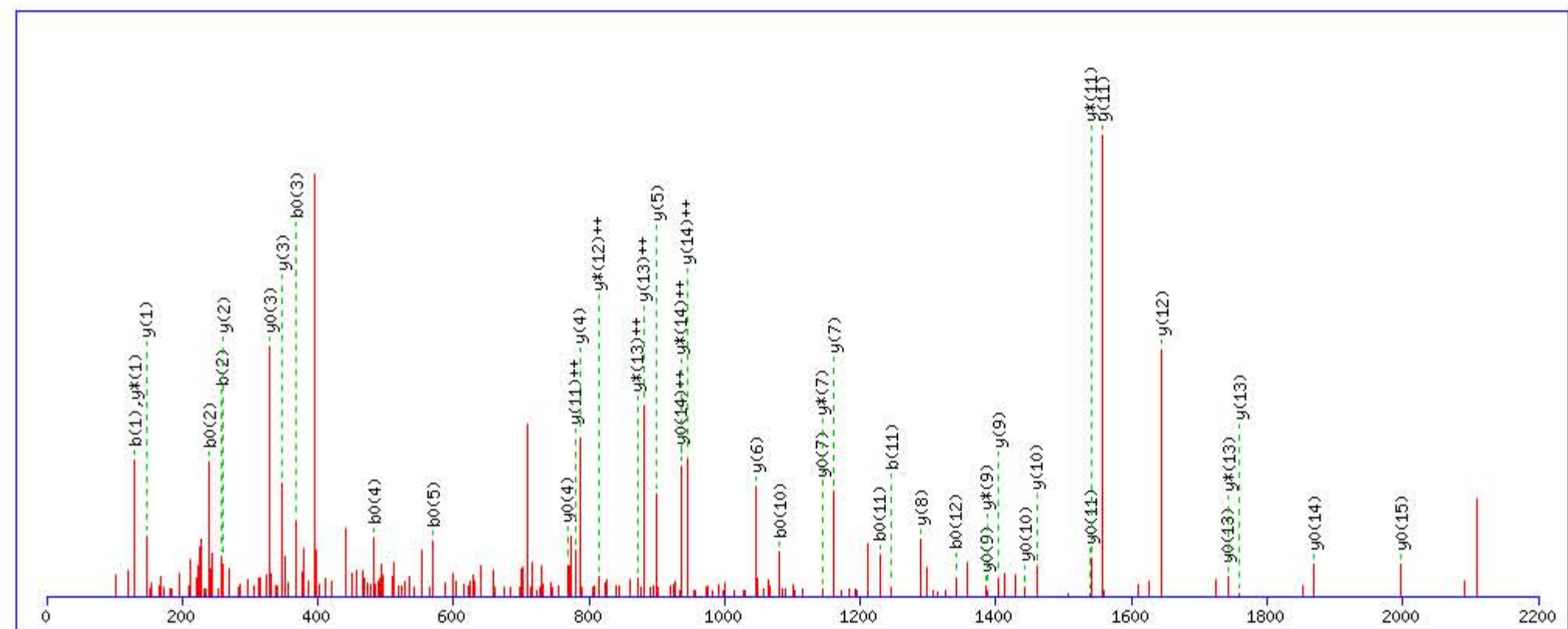
Title: Locus:1.1.1.3244.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2144.057190

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

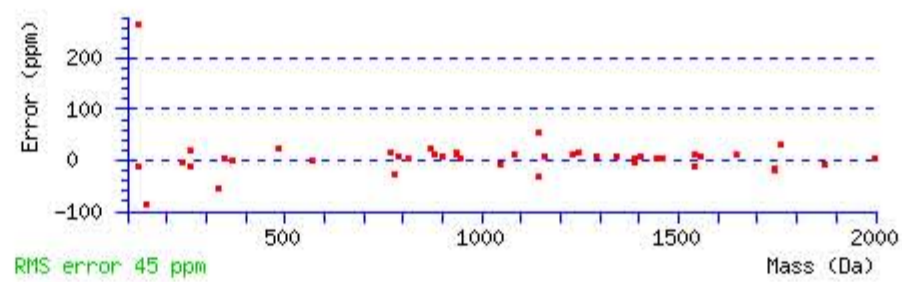
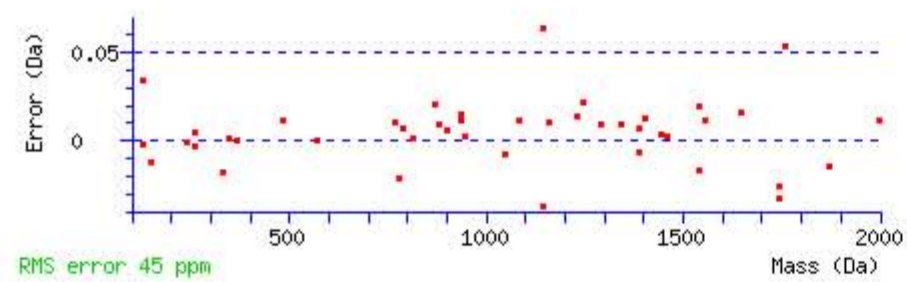
Variable modifications:

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 52 Expect: 0.00018

Matches : 44/174 fragment ions using 114 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							16
2	258.108447	129.557862	241.081898	121.044587	240.097882	120.552579	Q	2016.021888	1008.514582	1998.995339	1000.001308	1998.011323	999.509300	15
3	386.167025	193.587151	369.140476	185.073876	368.156460	184.581868	Q	1887.963310	944.485293	1870.936761	935.972019	1869.952745	935.480011	14
4	501.193968	251.100622	484.167419	242.587348	483.183403	242.095340	D	1759.904732	880.456004	1742.878183	871.942730	1741.894167	871.450722	13
5	588.225996	294.616636	571.199447	286.103362	570.215431	285.611354	S	1644.877789	822.942533	1627.851240	814.429258	1626.867224	813.937250	12
6	685.278760	343.143018	668.252211	334.629744	667.268195	334.137736	P	1557.845761	779.426519	1540.819212	770.913244	1539.835196	770.421236	11
7	742.300224	371.653750	725.273675	363.140476	724.289659	362.648468	G	1460.792997	730.900137	1443.766448	722.386862	1442.782432	721.894854	10
8	856.343151	428.675214	839.316602	420.161939	838.332586	419.669931	N	1403.771533	702.389405	1386.744984	693.876130	1385.760968	693.384122	9
9	984.438114	492.722695	967.411565	484.209421	966.427549	483.717413	K	1289.728606	645.367941	1272.702057	636.854667	1271.718041	636.362659	8
10	1099.465057	550.236167	1082.438508	541.722892	1081.454492	541.230884	D	1161.633643	581.320460	1144.607094	572.807185	1143.623078	572.315177	7
11	1246.533471	623.770374	1229.506922	615.257099	1228.522906	614.765091	F	1046.606700	523.806988	1029.580151	515.293714	1028.596135	514.801706	6
12	1359.617535	680.312406	1342.590986	671.799131	1341.606970	671.307123	L	899.538286	450.272781	882.511737	441.759507	881.527721	441.267499	5
13	1798.842861	899.925069	1781.816312	891.411794	1780.832296	890.919786	Q	786.454222	393.730749	769.427673	385.217475	768.443657	384.725467	4
14	1885.874889	943.441083	1868.848340	934.927808	1867.864324	934.435800	S	347.228896	174.118086	330.202347	165.604812	329.218331	165.112804	3
15	1998.958953	999.983115	1981.932404	991.469840	1980.948388	990.977832	L	260.196868	130.602072	243.170319	122.088798			2
16							K	147.112804	74.060040	130.086255	65.546766			1



NCBI BLAST search of **EQQDSPGNKDFLQSLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
51.9	2144.057190	0.011982	<a href="#">EQQDSPGNKDFLQSLK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QLTSGPNQEQVSPLTLK**

Found in **A2AP\_HUMAN**, Alpha-2-antiplasmin OS=Homo sapiens GN=SERPINF2 PE=1 SV=3

Match to Query 44416: 2263.244652 from(755.422160,3+) rtinseconds(2572) index(8046)

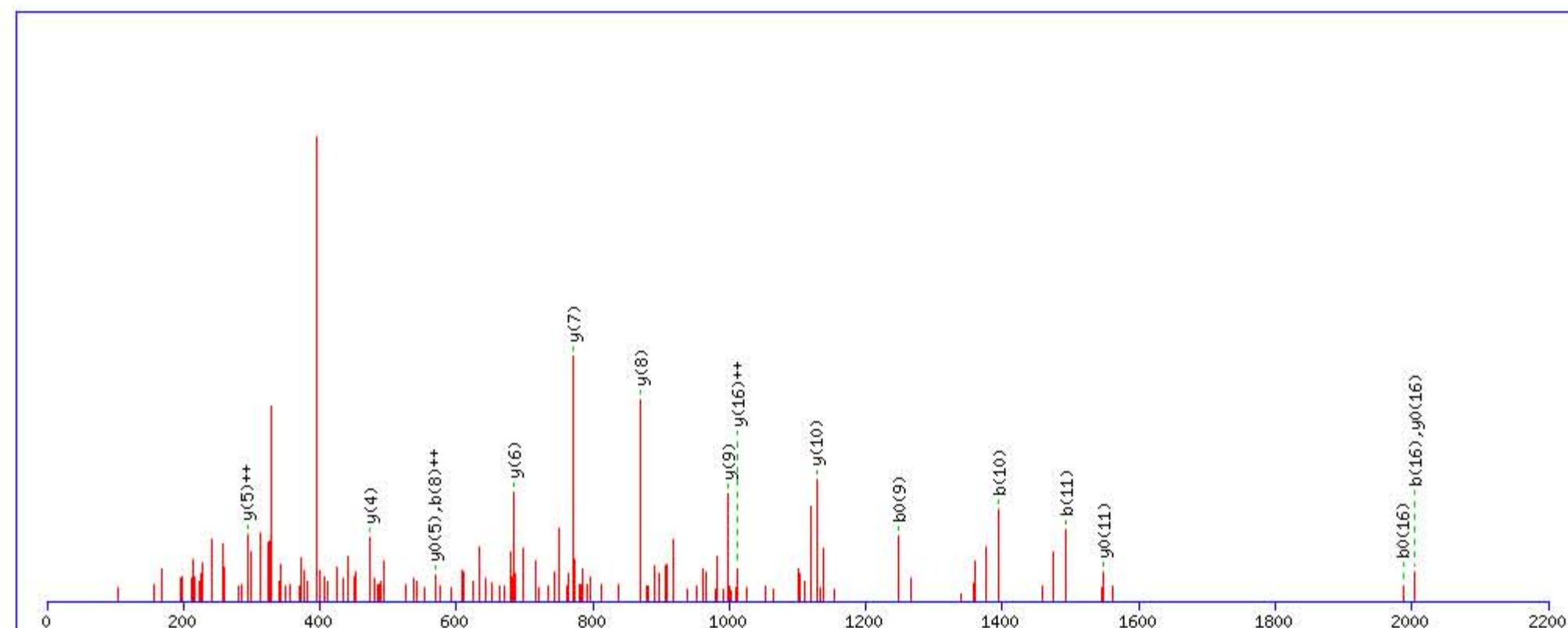
Title: Locus:1.1.1.3415.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2263.224594

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

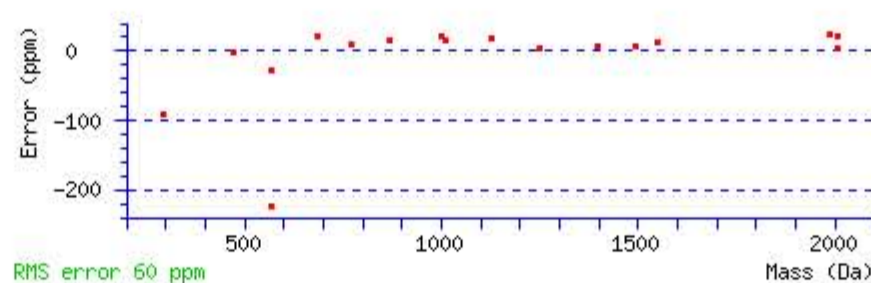
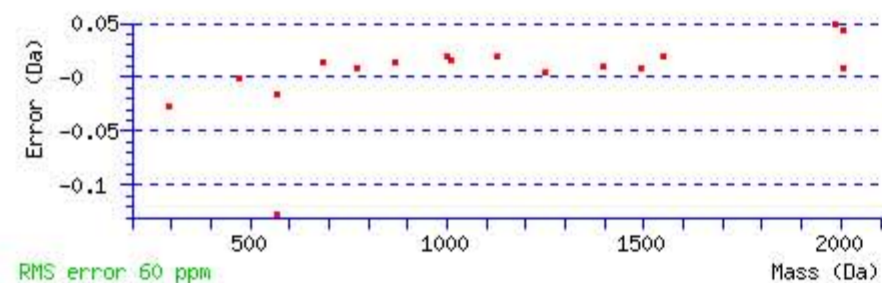
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 42 Expect: 0.00044

Matches : 17/194 fragment ions using 17 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.065854	65.036565	112.039305	56.523291			Q							18
2	242.149918	121.578597	225.123369	113.065323			L	2136.173304	1068.590290	2119.146755	1060.077015	2118.162739	1059.585007	17
3	343.197597	172.102437	326.171048	163.589162	325.187032	163.097154	T	2023.089240	1012.048258	2006.062691	1003.534984	2005.078675	1003.042976	16
4	430.229625	215.618450	413.203076	207.105176	412.219060	206.613168	S	1922.041561	961.524419	1905.015012	953.011144	1904.030996	952.519136	15
5	487.251089	244.129182	470.224540	235.615908	469.240524	235.123900	G	1835.009533	918.008405	1817.982984	909.495130	1816.998968	909.003122	14
6	584.303853	292.655565	567.277304	284.142290	566.293288	283.650282	P	1777.988069	889.497673	1760.961520	880.984398	1759.977504	880.492390	13
7	698.346780	349.677028	681.320231	341.163753	680.336215	340.671745	N	1680.935305	840.971291	1663.908756	832.458016	1662.924740	831.966008	12
8	1137.572106	569.289691	1120.545557	560.776416	1119.561541	560.284408	Q	1566.892378	783.949827	1549.865829	775.436553	1548.881813	774.944545	11
9	1266.614699	633.810988	1249.588150	625.297713	1248.604134	624.805705	E	1127.667052	564.337164	1110.640503	555.823890	1109.656487	555.331882	10
10	1394.673277	697.840277	1377.646728	689.327002	1376.662712	688.834994	Q	998.624459	499.815868	981.597910	491.302593	980.613894	490.810585	9
11	1493.741691	747.374484	1476.715142	738.861209	1475.731126	738.369201	V	870.565881	435.786579	853.539332	427.273304	852.555316	426.781296	8
12	1580.773719	790.890498	1563.747170	782.377223	1562.763154	781.885215	S	771.497467	386.252372	754.470918	377.739097	753.486902	377.247089	7
13	1677.826483	839.416880	1660.799934	830.903605	1659.815918	830.411597	P	684.465439	342.736358	667.438890	334.223083	666.454874	333.731075	6
14	1790.910547	895.958912	1773.883998	887.445637	1772.899982	886.953629	L	587.412675	294.209976	570.386126	285.696701	569.402110	285.204693	5
15	1891.958226	946.482751	1874.931677	937.969477	1873.947661	937.477469	T	474.328611	237.667944	457.302062	229.154669	456.318046	228.662661	4
16	2005.042290	1003.024783	1988.015741	994.511509	1987.031725	994.019501	L	373.280932	187.144104	356.254383	178.630830			3
17	2118.126354	1059.566815	2101.099805	1051.053540	2100.115789	1050.561532	L	260.196868	130.602072	243.170319	122.088798			2
18							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **QLTSGPNQEQVSPLTLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
41.8	2263.224594	0.020058	<a href="#">QLTSGPNQEQVSPLTLK</a>
33.4	2263.224594	0.020058	<a href="#">QLTSGPNQEQVSPLTLK</a>
20.5	2263.224594	0.020058	<a href="#">QLTSGPNQEQVSPLTLK</a>
6.0	2263.224594	0.020058	<a href="#">GLALSSNKVKSVMVVFENEK</a>







# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **EHAVEGDCDFQLLK**

Found in **FETUA\_HUMAN**, Alpha-2-HS-glycoprotein OS=Homo sapiens GN=AHSG PE=1 SV=1

Match to Query 38806: 1970.922852 from(657.981560,3+) rtinseconds(2098) index(32441)

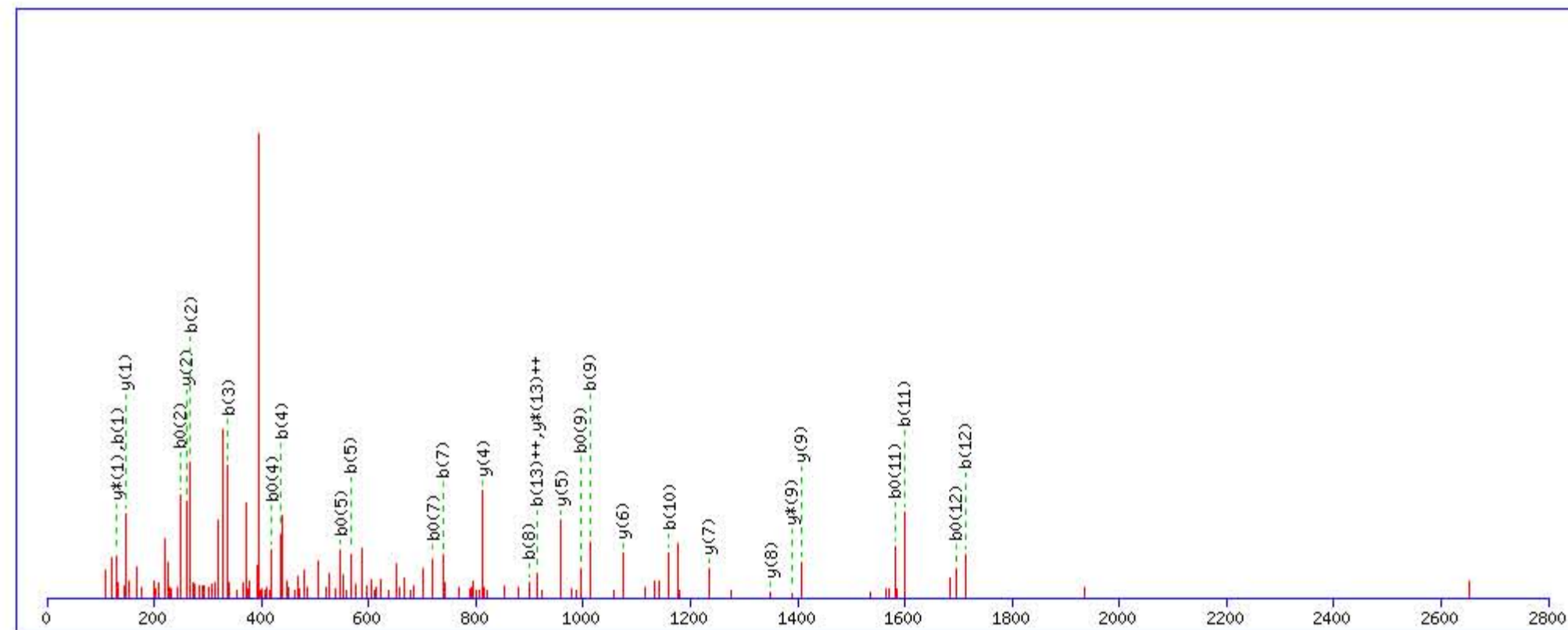
Title: Locus:1.1.1.3394.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1970.923019

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

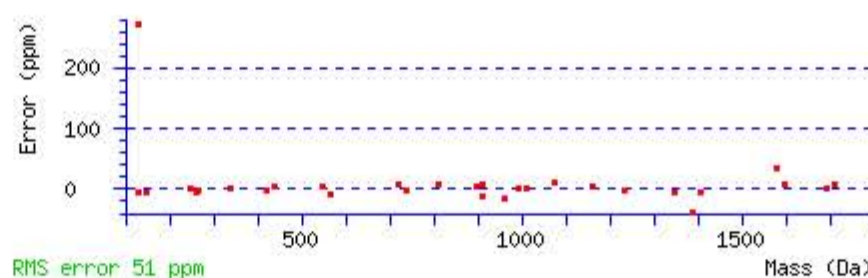
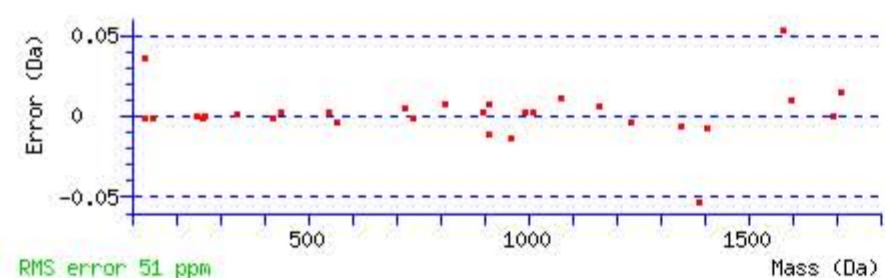
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 74 Expect: 1.6e-007

Matches : 30/126 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							14
2	267.108781	134.058028			249.098216	125.052746	H	1842.887704	921.947490	1825.861155	913.434216	1824.877139	912.942207	13
3	338.145895	169.576585			320.135330	160.571303	A	1705.828792	853.418034	1688.802243	844.904760	1687.818227	844.412752	12
4	437.214309	219.110792			419.203744	210.105510	V	1634.791678	817.899477	1617.765129	809.386203	1616.781113	808.894195	11
5	566.256902	283.632089			548.246337	274.626807	E	1535.723264	768.365270	1518.696715	759.851996	1517.712699	759.359988	10
6	623.278366	312.142821			605.267801	303.137539	G	1406.680671	703.843974	1389.654122	695.330699	1388.670106	694.838691	9
7	738.305309	369.656293			720.294744	360.651010	D	1349.659207	675.333241	1332.632658	666.819967	1331.648642	666.327959	8
8	898.335958	449.671617			880.325393	440.666335	C	1234.632264	617.819770	1217.605715	609.306496	1216.621699	608.814488	7
9	1013.362901	507.185089			995.352336	498.179806	D	1074.601615	537.804446	1057.575066	529.291171	1056.591050	528.799163	6
10	1160.431315	580.719296			1142.420750	571.714013	F	959.574672	480.290974	942.548123	471.777700			5
11	1599.656641	800.331959	1582.630092	791.818684	1581.646076	791.326676	Q	812.506258	406.756767	795.479709	398.243493			4
12	1712.740705	856.873991	1695.714156	848.360716	1694.730140	847.868708	L	373.280932	187.144104	356.254383	178.630829			3
13	1825.824769	913.416023	1808.798220	904.902748	1807.814204	904.410740	L	260.196868	130.602072	243.170319	122.088797			2
14							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EHAVEGDCDFQLLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
73.6	1970.923019	-0.000167	<a href="#">EHAVEGDCDFQLLK</a>
0.9	1970.905258	0.017594	<a href="#">LDFNMTTNHFSMCLIK</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **QGIPFFGQVR**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 26133: 1458.778428 from(730.396490,2+) rtinseconds(2552) index(34922)

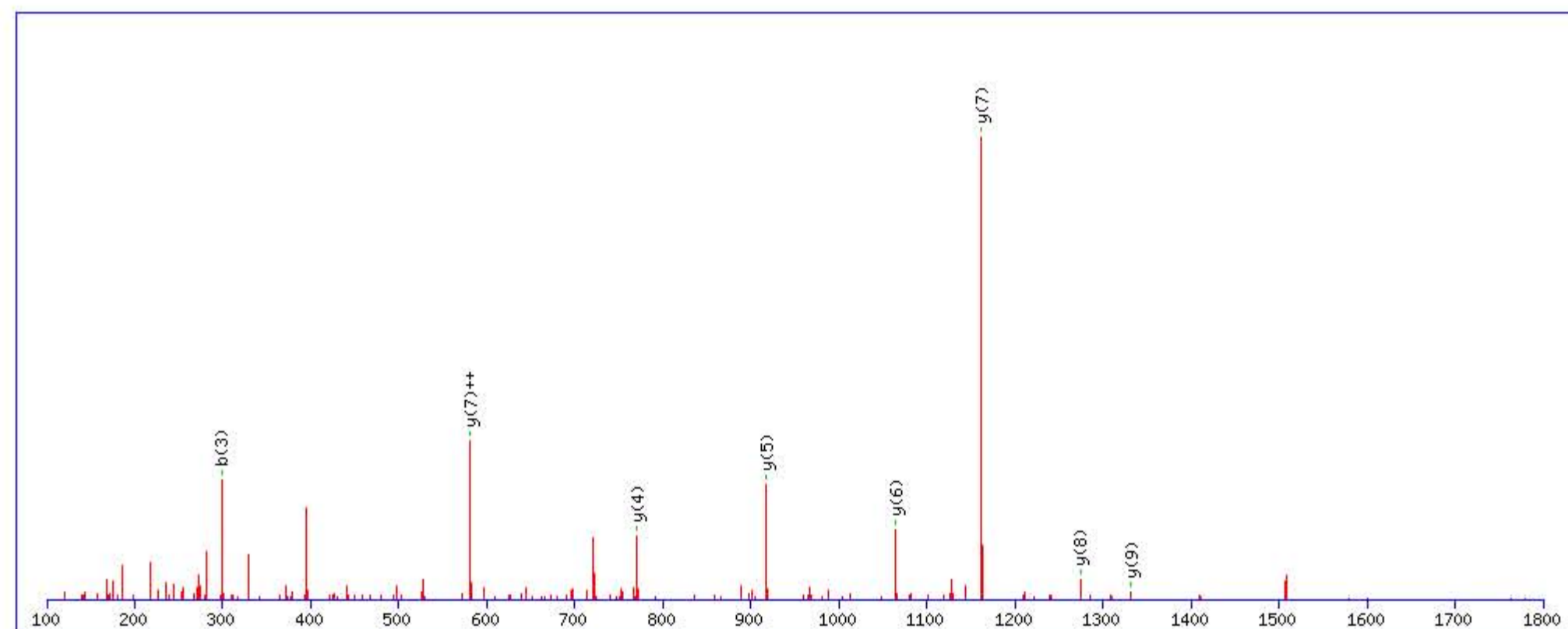
Title: Locus:1.1.1.3552.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1458.780594

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

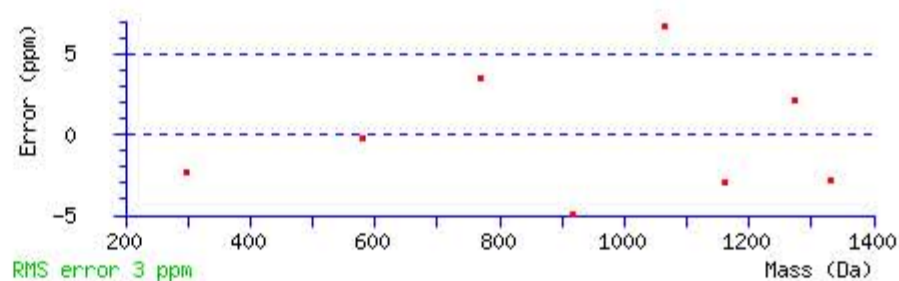
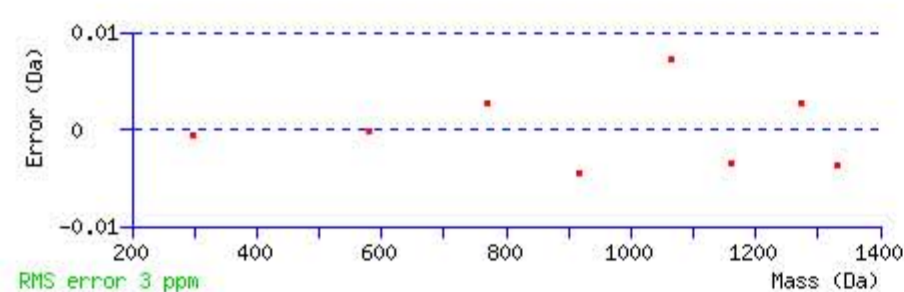
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 40 Expect: 0.00029

Matches : 8/72 fragment ions using 13 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	#
1	129.065854	65.036565	112.039305	56.523291	Q					10
2	186.087318	93.547297	169.060769	85.034023	G	1331.729276	666.368276	1314.702727	657.855002	9
3	299.171382	150.089329	282.144833	141.576055	I	1274.707812	637.857544	1257.681263	629.344270	8
4	396.224146	198.615711	379.197597	190.102436	P	1161.623748	581.315512	1144.597199	572.802238	7
5	543.292560	272.149918	526.266011	263.636643	F	1064.570984	532.789130	1047.544435	524.275856	6
6	690.360974	345.684125	673.334425	337.170850	F	917.502570	459.254923	900.476021	450.741649	5
7	747.382438	374.194857	730.355889	365.681582	G	770.434156	385.720716	753.407607	377.207442	4
8	1186.607764	593.807520	1169.581215	585.294246	Q	713.412692	357.209984	696.386143	348.696710	3
9	1285.676178	643.341727	1268.649629	634.828453	V	274.187366	137.597321	257.160817	129.084047	2
10					R	175.118952	88.063114	158.092403	79.549839	1



NCBI BLAST search of **QGIPFFGQVR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
39.9	1458.780594	-0.002166	<a href="#">QGIPFFGQVR</a>
2.0	1458.786438	-0.008010	<a href="#">QVAASTAQLLVACK</a>
0.8	1458.798340	-0.019912	<a href="#">KIGGIWTWVGINK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **FSGQLNSHGCFYQQVK**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 26481: 2210.036202 from(737.686010,3+) rtinseconds(1868) index(18091)

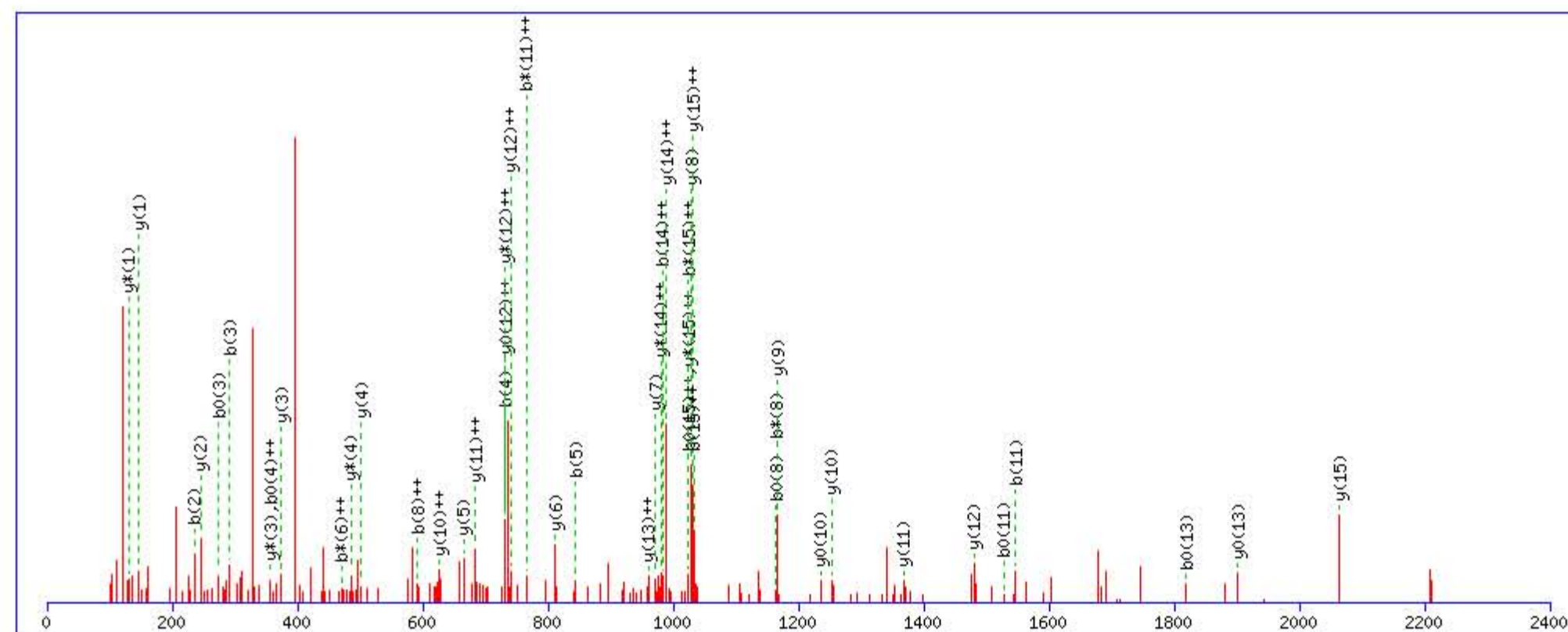
Title: Locus:1.1.1.3216.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2210.040131

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

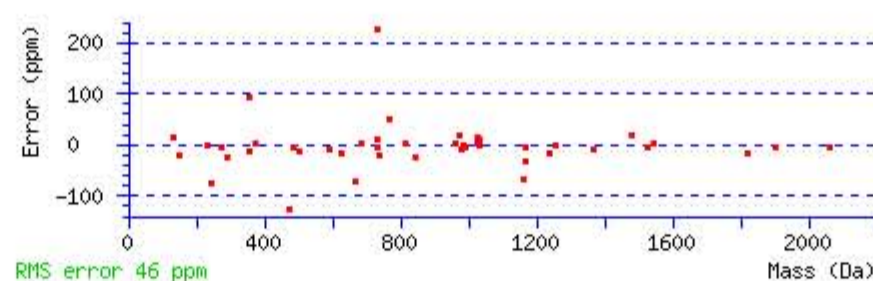
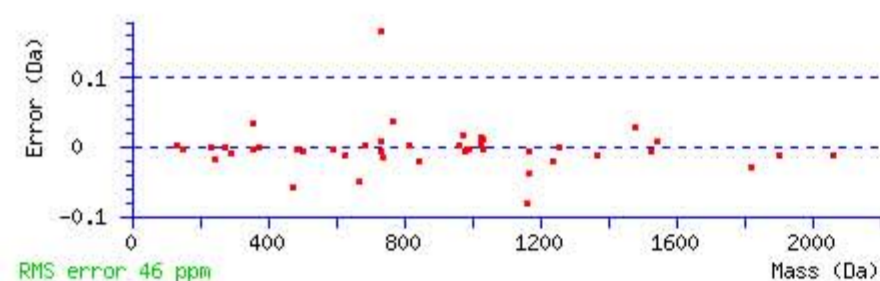
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 51 Expect: 0.00014

Matches : 46/154 fragment ions using 115 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							16
2	<b>235.107718</b>	118.057497			217.097153	109.052214	S	<b>2063.978979</b>	<b>1032.493127</b>	2046.952430	<b>1023.979853</b>	2045.968414	1023.487845	15
3	<b>292.129182</b>	146.568229			<b>274.118617</b>	137.562946	G	1976.946951	<b>988.977114</b>	1959.920402	<b>980.463839</b>	1958.936386	979.971831	14
4	<b>731.354508</b>	366.180892	714.327959	357.667618	713.343943	<b>357.175610</b>	Q	1919.925487	<b>960.466382</b>	1902.898938	951.953107	<b>1901.914922</b>	951.461099	13
5	<b>844.438572</b>	422.722924	827.412023	414.209650	826.428007	413.717642	L	<b>1480.700161</b>	<b>740.853719</b>	1463.673612	<b>732.340444</b>	1462.689596	<b>731.848436</b>	12
6	958.481499	479.744388	941.454950	<b>471.231113</b>	940.470934	470.739105	N	<b>1367.616097</b>	<b>684.311687</b>	1350.589548	675.798412	1349.605532	675.306404	11
7	1045.513527	523.260402	1028.486978	514.747127	1027.502962	514.255119	S	<b>1253.573170</b>	<b>627.290223</b>	1236.546621	618.776949	<b>1235.562605</b>	618.284941	10
8	1182.572439	<b>591.789858</b>	<b>1165.545890</b>	583.276583	<b>1164.561874</b>	582.784575	H	<b>1166.541142</b>	583.774209	1149.514593	575.260935			9
9	1239.593903	620.300590	1222.567354	611.787315	1221.583338	611.295307	G	<b>1029.482230</b>	515.244753	1012.455681	506.731479			8
10	1399.624552	700.315914	1382.598003	691.802640	1381.613987	691.310632	C	<b>972.460766</b>	486.734021	955.434217	478.220747			7
11	<b>1546.692966</b>	773.850121	1529.666417	<b>765.336847</b>	<b>1528.682401</b>	764.844839	F	<b>812.430117</b>	406.718697	795.403568	398.205422			6
12	1709.756295	855.381786	1692.729746	846.868511	1691.745730	846.376503	Y	<b>665.361703</b>	333.184490	648.335154	324.671215			5
13	1837.814873	919.411075	1820.788324	910.897800	<b>1819.804308</b>	910.405792	Q	<b>502.298374</b>	251.652825	<b>485.271825</b>	243.139550			4
14	1965.873451	<b>983.440364</b>	1948.846902	974.927089	1947.862886	974.435081	Q	<b>374.239796</b>	187.623536	<b>357.213247</b>	179.110261			3
15	2064.941865	<b>1032.974570</b>	2047.915316	<b>1024.461296</b>	2046.931300	<b>1023.969288</b>	V	<b>246.181218</b>	123.594247	229.154669	115.080972			2
16							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **FSGQLNSHGCFYQQVK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
50.8	2210.040131	-0.003929	<a href="#">FSGQLNSHGCFYQQVK</a>
15.1	2210.040131	-0.003929	<a href="#">FSGQLNSHGCFYQQVK</a>
12.7	2210.040131	-0.003929	<a href="#">FSGQLNSHGCFYQQVK</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AIGYLNTGYQR**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 29064: 1565.797168 from(783.905860,2+) rtinseconds(2018) index(19167)

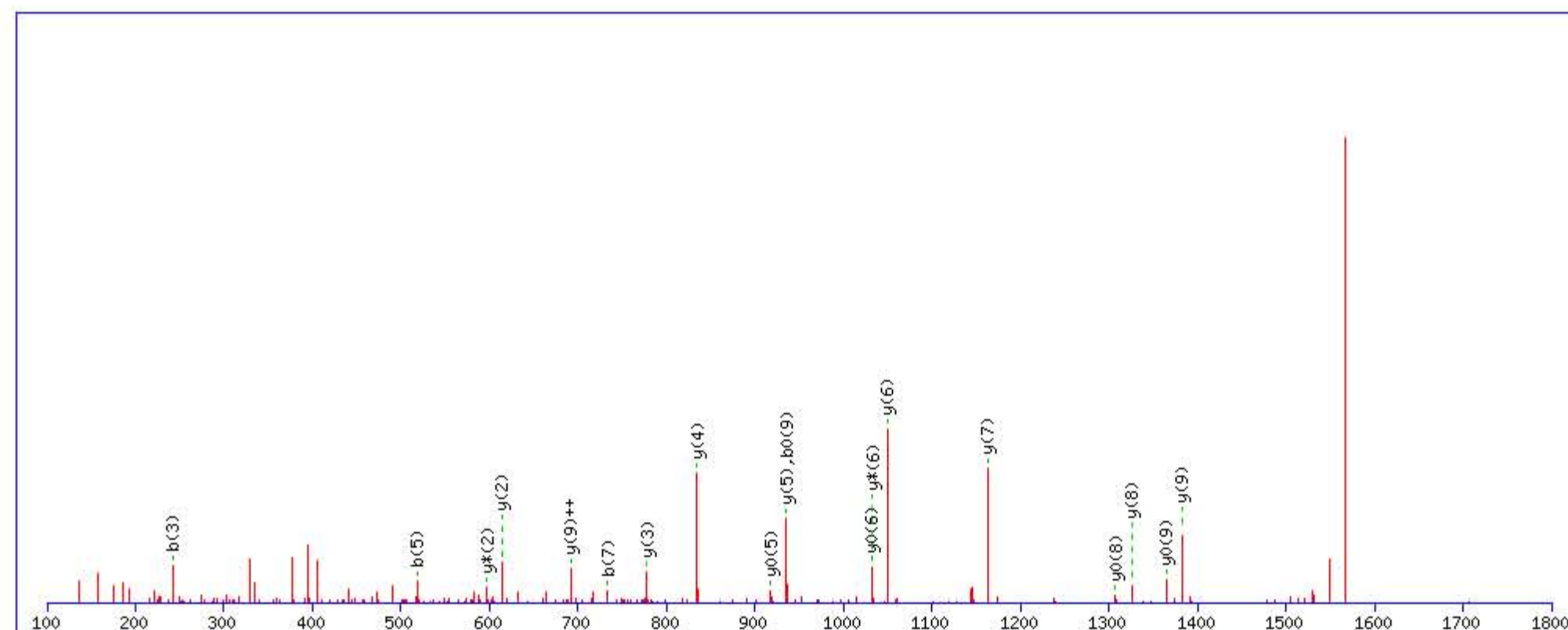
Title: Locus:1.1.1.3268.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1565.802414

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

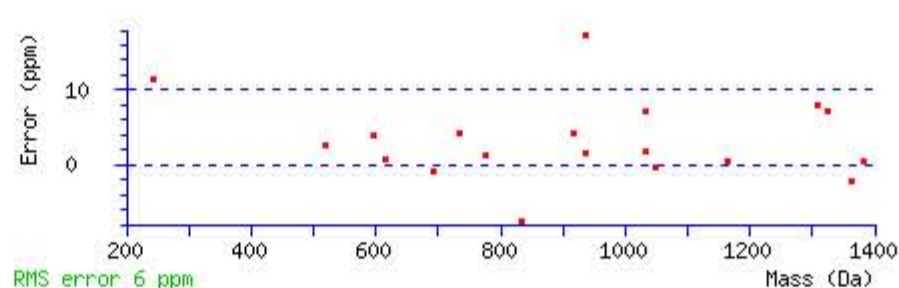
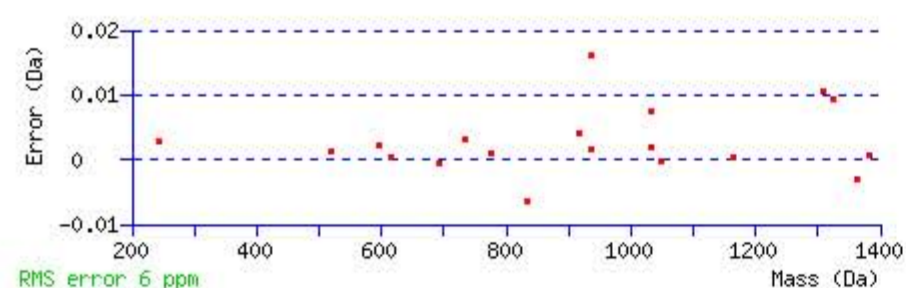
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 56 Expect: 8.8e-006

Matches : 19/90 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							11
2	185.128454	93.067865					I	1495.772598	748.389937	1478.746049	739.876663	1477.762033	739.384655	10
3	<b>242.149918</b>	121.578597					G	<b>1382.688534</b>	<b>691.847905</b>	1365.661985	683.334631	<b>1364.677969</b>	682.842623	9
4	405.213247	203.110261					Y	<b>1325.667070</b>	663.337173	1308.640521	654.823899	<b>1307.656505</b>	654.331890	8
5	<b>518.297311</b>	259.652294					L	<b>1162.603741</b>	581.805509	1145.577192	573.292234	1144.593176	572.800226	7
6	632.340238	316.673757	615.313689	308.160483			N	<b>1049.519677</b>	525.263477	<b>1032.493128</b>	516.750202	<b>1031.509112</b>	516.258194	6
7	<b>733.387917</b>	367.197597	716.361368	358.684322	715.377352	358.192314	T	<b>935.476750</b>	468.242013	918.450201	459.728739	<b>917.466185</b>	459.236731	5
8	790.409381	395.708329	773.382832	387.195054	772.398816	386.703046	G	<b>834.429071</b>	417.718174	817.402522	409.204899			4
9	953.472710	477.239993	936.446161	468.726719	<b>935.462145</b>	468.234711	Y	<b>777.407607</b>	389.207442	760.381058	380.694167			3
10	1392.698036	696.852656	1375.671487	688.339382	1374.687471	687.847374	Q	<b>614.344278</b>	307.675777	<b>597.317729</b>	299.162503			2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **AIGYLNTGYQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
56.1	1565.802414	-0.005246	<a href="#">AIGYLNTGYQR</a>
2.2	1565.806259	-0.009091	<a href="#">QIHKLQDWAGSRQ</a>
2.0	1565.795013	0.002155	<a href="#">SSPASSPELPWRPR</a>
1.7	1565.781296	0.015872	<a href="#">AGLFSWQYQR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VTAAPQSVCALR**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 29726: 1582.827048 from(792.420800,2+) rtinseconds(1836) index(17930)

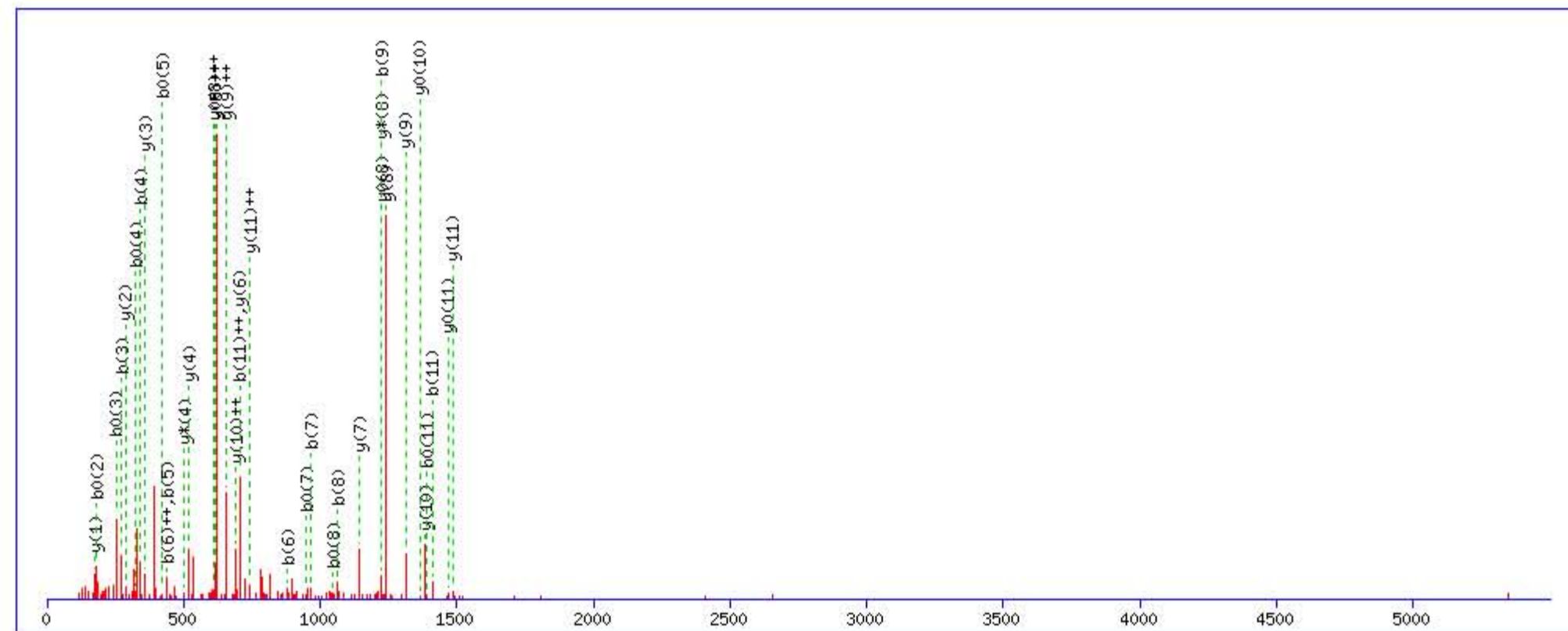
Title: Locus:1.1.1.3205.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1582.832352

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

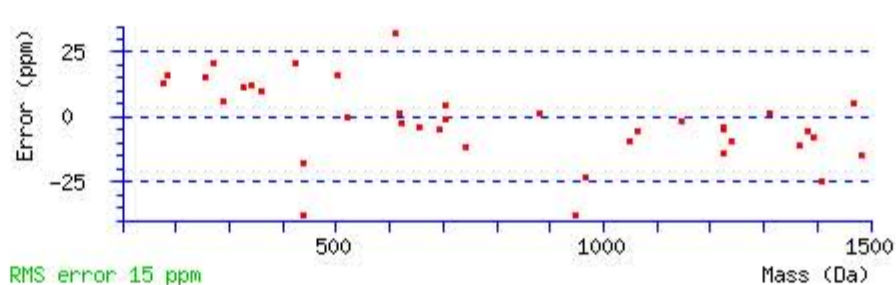
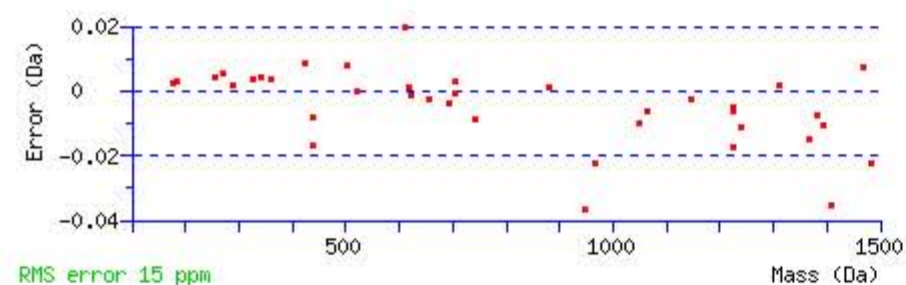
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 56 Expect: 1.9e-005

Matches : 38/110 fragment ions using 84 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							12
2	201.123369	101.065322			183.112804	92.060040	T	1484.771218	742.889247	1467.744669	734.375972	1466.760653	733.883964	11
3	272.160483	136.583879			254.149918	127.578597	A	1383.723539	692.365407	1366.696990	683.852133	1365.712974	683.360125	10
4	343.197597	172.102437			325.187032	163.097154	A	1312.686425	656.846850	1295.659876	648.333576	1294.675860	647.841568	9
5	440.250361	220.628819			422.239796	211.623536	P	1241.649311	621.328293	1224.622762	612.815019	1223.638746	612.323011	8
6	879.475687	440.241482	862.449138	431.728207	861.465122	431.236199	Q	1144.596547	572.801911	1127.569998	564.288637	1126.585982	563.796629	7
7	966.507715	483.757496	949.481166	475.244221	948.497150	474.752213	S	705.371221	353.189248	688.344672	344.675974	687.360656	344.183966	6
8	1065.576129	533.291703	1048.549580	524.778428	1047.565564	524.286420	V	618.339193	309.673234	601.312644	301.159960			5
9	1225.606778	613.307027	1208.580229	604.793753	1207.596213	604.301745	C	519.270779	260.139028	502.244230	251.625753			4
10	1296.643892	648.825584	1279.617343	640.312310	1278.633327	639.820302	A	359.240130	180.123703	342.213581	171.610428			3
11	1409.727956	705.367616	1392.701407	696.854342	1391.717391	696.362333	L	288.203016	144.605146	271.176467	136.091871			2
12							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VTAAPQSVCALR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
56.4	1582.832352	-0.005304	<a href="#">VTAAPQSVCALR</a>
5.8	1582.821564	0.005484	<a href="#">LSKAVATWHANTER</a>
3.0	1582.821579	0.005469	<a href="#">IGGHGPTLKAYQEGR</a>
1.1	1582.817535	0.009513	<a href="#">KTLSEETRQHQR</a>

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

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **FSGQLNSHGCFYQQVK**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 43341: 2210.032782 from(737.684870,3+) rtinseconds(1894) index(18269)

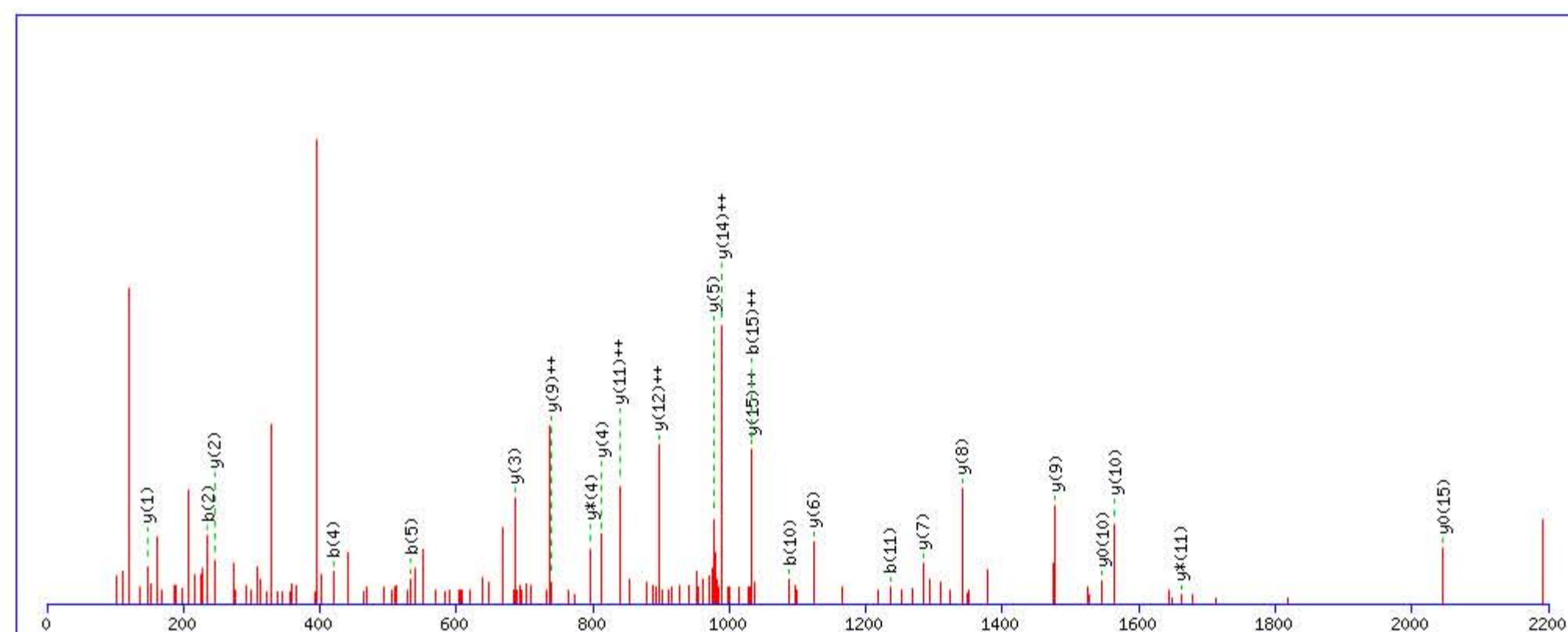
Title: Locus:1.1.1.3225.21 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2210.040131

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

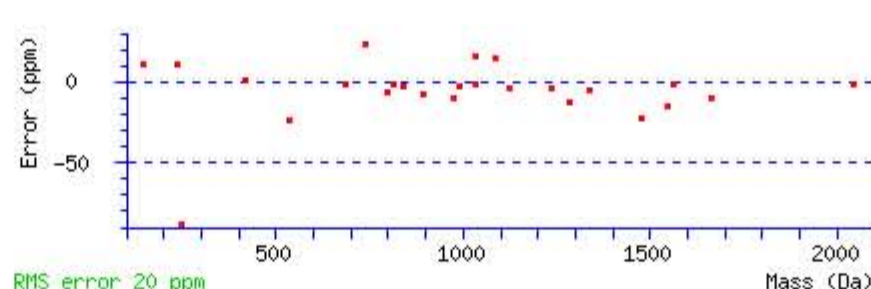
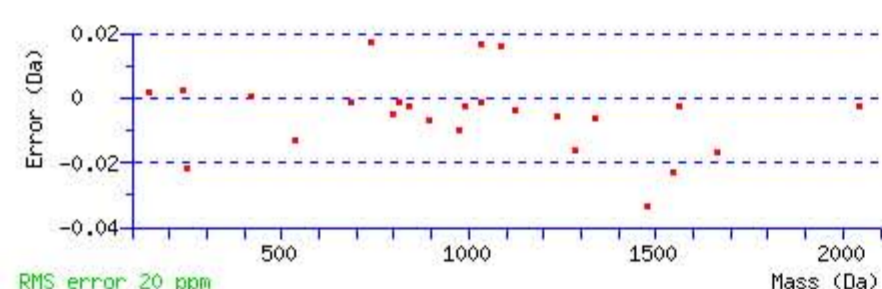
Variable modifications:

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 51 Expect: 4.8e-005

Matches : 25/154 fragment ions using 51 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							16
2	<b>235.107718</b>	118.057497			217.097153	109.052214	S	2063.978979	<b>1032.493127</b>	2046.952430	1023.979853	<b>2045.968414</b>	1023.487845	15
3	292.129182	146.568229			274.118617	137.562946	G	1976.946951	<b>988.977114</b>	1959.920402	980.463839	1958.936386	979.971831	14
4	<b>420.187760</b>	210.597518	403.161211	202.084243	402.177195	201.592235	Q	1919.925487	960.466382	1902.898938	951.953107	1901.914922	951.461099	13
5	<b>533.271824</b>	267.139550	516.245275	258.626276	515.261259	258.134268	L	1791.866909	<b>896.437093</b>	1774.840360	887.923818	1773.856344	887.431810	12
6	647.314751	324.161014	630.288202	315.647739	629.304186	315.155731	N	1678.782845	<b>839.895061</b>	<b>1661.756296</b>	831.381786	1660.772280	830.889778	11
7	734.346779	367.677028	717.320230	359.163753	716.336214	358.671745	S	<b>1564.739918</b>	782.873597	1547.713369	774.360323	<b>1546.729353</b>	773.868315	10
8	871.405691	436.206483	854.379142	427.693209	853.395126	427.201201	H	<b>1477.707890</b>	<b>739.357583</b>	1460.681341	730.844309			9
9	928.427155	464.717216	911.400606	456.203941	910.416590	455.711933	G	<b>1340.648978</b>	670.828127	1323.622429	662.314853			8
10	<b>1088.457804</b>	544.732540	1071.431255	536.219266	1070.447239	535.727257	C	<b>1283.627514</b>	642.317395	1266.600965	633.804121			7
11	<b>1235.526218</b>	618.266747	1218.499669	609.753473	1217.515653	609.261464	F	<b>1123.596865</b>	562.302071	1106.570316	553.788796			6
12	1398.589547	699.798412	1381.562998	691.285137	1380.578982	690.793129	Y	<b>976.528451</b>	488.767864	959.501902	480.254589			5
13	1526.648125	763.827700	1509.621576	755.314426	1508.637560	754.822418	Q	<b>813.465122</b>	407.236199	<b>796.438573</b>	398.722925			4
14	1965.873451	983.440364	1948.846902	974.927089	1947.862886	974.435081	Q	<b>685.406544</b>	343.206910	668.379995	334.693636			3
15	2064.941865	<b>1032.974570</b>	2047.915316	1024.461296	2046.931300	1023.969288	V	<b>246.181218</b>	123.594247	229.154669	115.080972			2
16							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **FSGQLNSHGCFYQQVK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
50.9	2210.040131	-0.007349	<a href="#">FSGQLNSHGCFYQQVK</a>
42.8	2210.040131	-0.007349	<a href="#">FSGQLNSHGCFYQQVK</a>
4.7	2210.058075	-0.025293	<a href="#">FSHL SRNMTMQRTMK</a>
4.6	2210.058075	-0.025293	<a href="#">FSHL SRNMTMQRTMK</a>
1.6	2210.045486	-0.012704	<a href="#">MSMKEVDEQMLAIQSK</a>

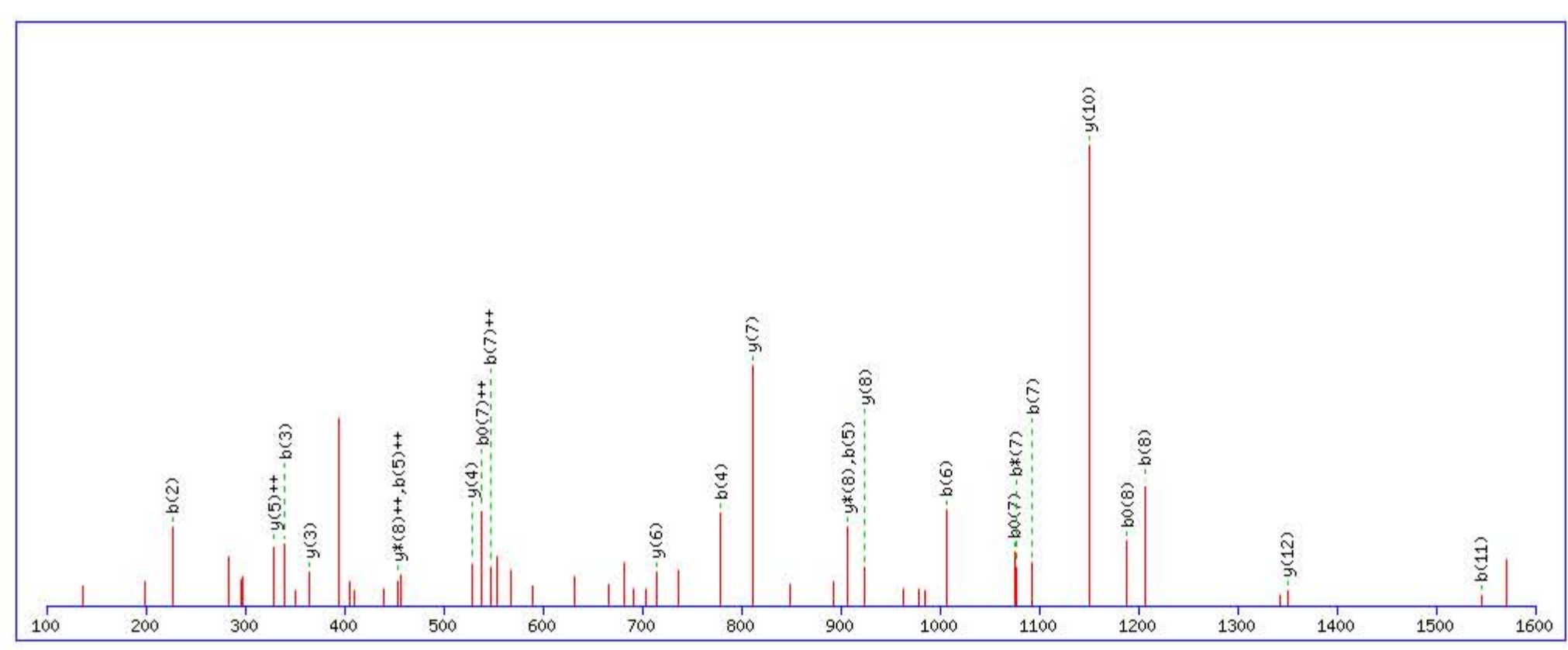
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LLLQVSLPELPGEYSMK**  
 Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

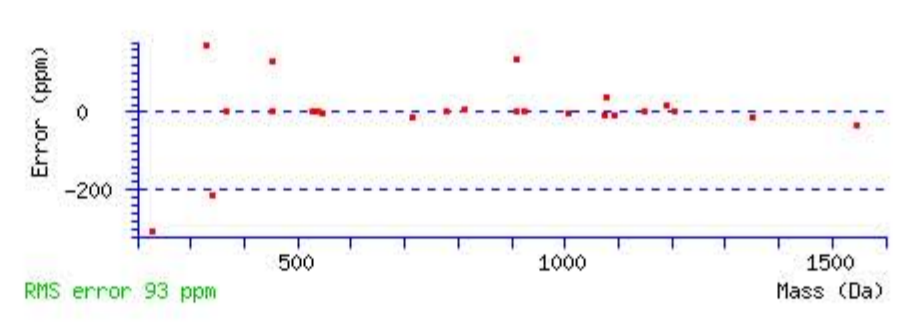
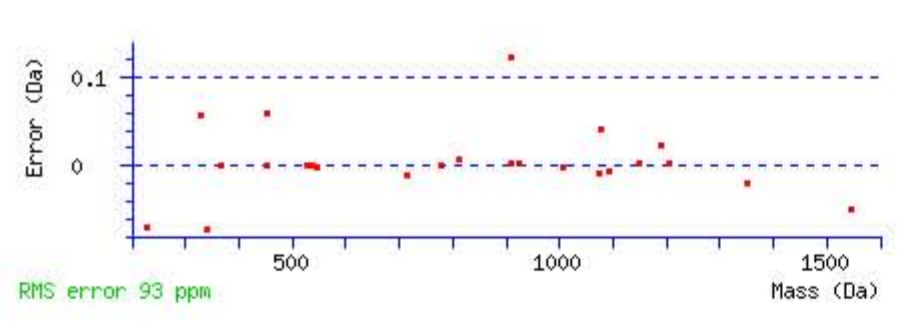
Match to Query 45898: 2355.254922 from(786.092250,3+) rtinseconds(2870) index(37114)  
 Title: Locus:1.1.1.3661.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2355.258179  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q4 : Biotin:Thermo-21345 (Q)  
 Ions Score: 51 Expect: 0.00021  
 Matches : 24/182 fragment ions using 38 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							18
2	<b>227.175404</b>	114.091340					L	2243.181426	1122.094351	2226.154877	1113.581076	2225.170861	1113.089068	17
3	<b>340.259468</b>	170.633372					L	2130.097362	1065.552319	2113.070813	1057.039044	2112.086797	1056.547036	16
4	<b>779.484794</b>	390.246035	762.458245	381.732760			Q	2017.013298	1009.010287	1999.986749	1000.497013	1999.002733	1000.005005	15
5	<b>907.543372</b>	<b>454.275324</b>	890.516823	445.762049			Q	1577.787972	789.397624	1560.761423	780.884350	1559.777407	780.392342	14
6	<b>1006.611786</b>	503.809531	989.585237	495.296256			V	1449.729394	725.368335	1432.702845	716.855061	1431.718829	716.363053	13
7	<b>1093.643814</b>	<b>547.325545</b>	<b>1076.617265</b>	538.812271	<b>1075.633249</b>	<b>538.320263</b>	S	<b>1350.660980</b>	675.834128	1333.634431	667.320854	1332.650415	666.828846	12
8	<b>1206.727878</b>	603.867577	1189.701329	595.354303	<b>1188.717313</b>	594.862294	L	1263.628952	632.318114	1246.602403	623.804840	1245.618387	623.312832	11
9	1303.780642	652.393959	1286.754093	643.880685	1285.770077	643.388676	P	<b>1150.544888</b>	575.776082	1133.518339	567.262808	1132.534323	566.770800	10
10	1432.823235	716.915256	1415.796686	708.401981	1414.812670	707.909973	E	1053.492124	527.249700	1036.465575	518.736426	1035.481559	518.244418	9
11	<b>1545.907299</b>	773.457288	1528.880750	764.944013	1527.896734	764.452005	L	<b>924.449531</b>	462.728404	<b>907.422982</b>	<b>454.215129</b>	906.438966	453.723121	8
12	1642.960063	821.983670	1625.933514	813.470395	1624.949498	812.978387	P	<b>811.365467</b>	406.186372	794.338918	397.673097	793.354902	397.181089	7
13	1699.981527	850.494401	1682.954978	841.981127	1681.970962	841.489119	G	<b>714.312703</b>	357.659990	697.286154	349.146715	696.302138	348.654707	6
14	1829.024120	915.015698	1811.997571	906.502423	1811.013555	906.010415	E	657.291239	<b>329.149258</b>	640.264690	320.635983	639.280674	320.143975	5
15	1992.087449	996.547362	1975.060900	988.034088	1974.076884	987.542080	Y	<b>528.248646</b>	264.627961	511.222097	256.114687	510.238081	255.622679	4
16	2079.119477	1040.063376	2062.092928	1031.550102	2061.108912	1031.058094	S	<b>365.185317</b>	183.096297	348.158768	174.583022	347.174752	174.091014	3
17	2210.159962	1105.583619	2193.133413	1097.070344	2192.149397	1096.578336	M	278.153289	139.580282	261.126740	131.067008			2
18							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LLLQVSLPELPGEYSMK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
50.9	2355.258179	-0.003257	<a href="#">LLLQVSLPELPGEYSMK</a>
43.0	2355.258179	-0.003257	<a href="#">LLLQVSLPELPGEYSMK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LLLQQVSLPELPGEYSMK**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 45904: 2355.265242 from(786.095690,3+) rtinseconds(2845) index(23998)

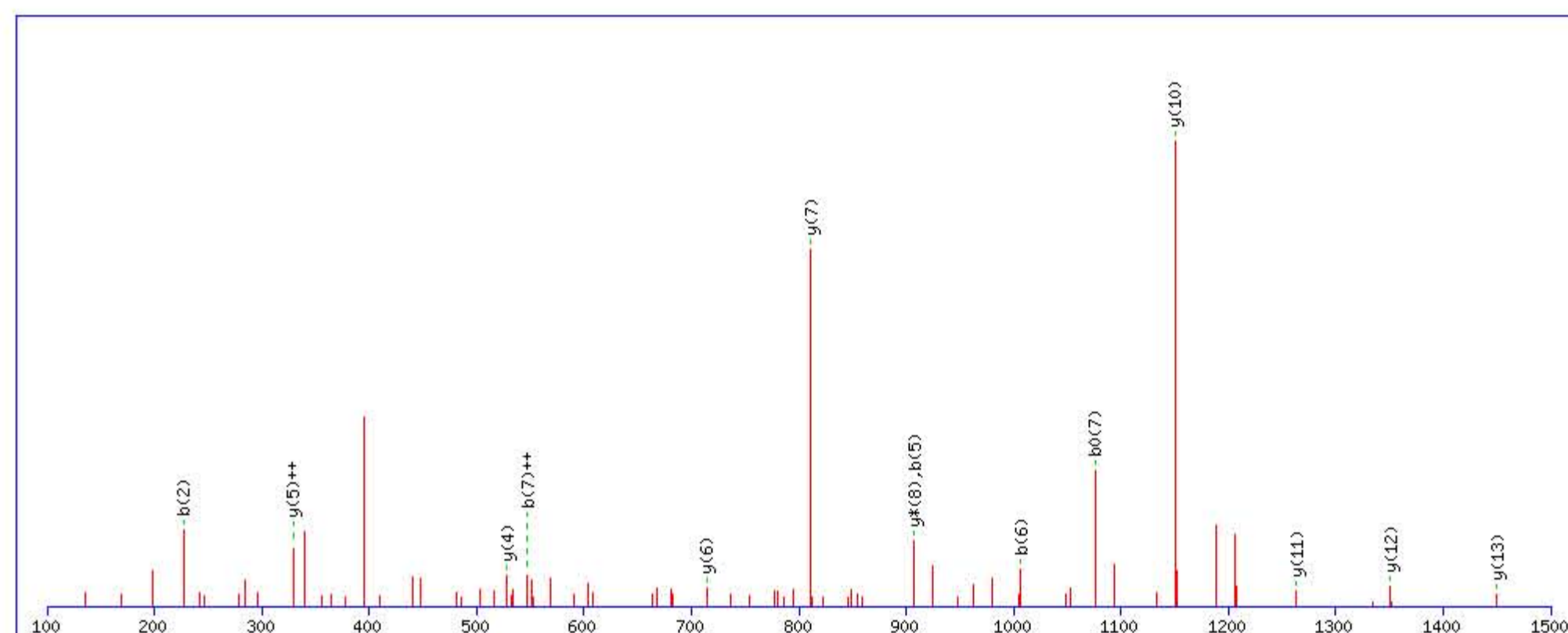
Title: Locus:1.1.1.3554.23 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2355.258179

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

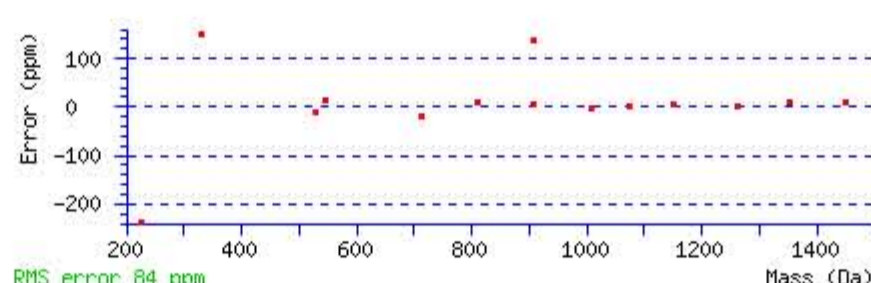
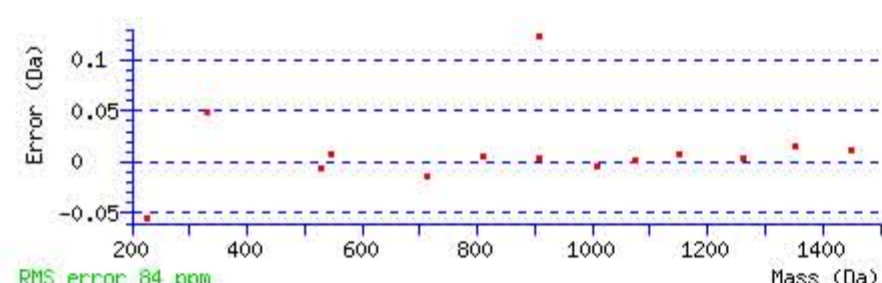
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 58 Expect: 2.3e-005

Matches : 14/182 fragment ions using 14 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							18
2	<b>227.175404</b>	114.091340					L	2243.181426	1122.094351	2226.154877	1113.581076	2225.170861	1113.089068	17
3	340.259468	170.633372					L	2130.097362	1065.552319	2113.070813	1057.039044	2112.086797	1056.547036	16
4	468.318046	234.662661	451.291497	226.149386			Q	2017.013298	1009.010287	1999.986749	1000.497013	1999.002733	1000.005005	15
5	<b>907.543372</b>	454.275324	890.516823	445.762049			Q	1888.954720	944.980998	1871.928171	936.467724	1870.944155	935.975715	14
6	<b>1006.611786</b>	503.809531	989.585237	495.296256			V	<b>1449.729394</b>	725.368335	1432.702845	716.855061	1431.718829	716.363053	13
7	1093.643814	<b>547.325545</b>	1076.617265	538.812271	<b>1075.633249</b>	538.320263	S	<b>1350.660980</b>	675.834128	1333.634431	667.320854	1332.650415	666.828846	12
8	1206.727878	603.867577	1189.701329	595.354303	1188.717313	594.862294	L	<b>1263.628952</b>	632.318114	1246.602403	623.804840	1245.618387	623.312832	11
9	1303.780642	652.393959	1286.754093	643.880685	1285.770077	643.388676	P	<b>1150.544888</b>	575.776082	1133.518339	567.262808	1132.534323	566.770800	10
10	1432.823235	716.915256	1415.796686	708.401981	1414.812670	707.909973	E	1053.492124	527.249700	1036.465575	518.736426	1035.481559	518.244418	9
11	1545.907299	773.457288	1528.880750	764.944013	1527.896734	764.452005	L	924.449531	462.728404	<b>907.422982</b>	454.215129	906.438966	453.723121	8
12	1642.960063	821.983670	1625.933514	813.470395	1624.949498	812.978387	P	<b>811.365467</b>	406.186372	794.338918	397.673097	793.354902	397.181089	7
13	1699.981527	850.494401	1682.954978	841.981127	1681.970962	841.489119	G	<b>714.312703</b>	357.659990	697.286154	349.146715	696.302138	348.654707	6
14	1829.024120	915.015698	1811.997571	906.502423	1811.013555	906.010415	E	657.291239	<b>329.149258</b>	640.264690	320.635983	639.280674	320.143975	5
15	1992.087449	996.547362	1975.060900	988.034088	1974.076884	987.542080	Y	<b>528.248646</b>	264.627961	511.222097	256.114687	510.238081	255.622679	4
16	2079.119477	1040.063376	2062.092928	1031.550102	2061.108912	1031.058094	S	365.185317	183.096297	348.158768	174.583022	347.174752	174.091014	3
17	2210.159962	1105.583619	2193.133413	1097.070344	2192.149397	1096.578336	M	278.153289	139.580282	261.126740	131.067008			2
18							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [LLLQQVSLPELPGEYSMK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
58.1	2355.258179	0.007063	<a href="#">LLLQQVSLPELPGEYSMK</a>
58.1	2355.258179	0.007063	<a href="#">LLLQQVSLPELPGEYSMK</a>
8.1	2355.288498	-0.023256	<a href="#">LIQERALLNFTWKR</a>
6.3	2355.288498	-0.023256	<a href="#">LIQERALLNFTWKR</a>
1.0	2355.273926	-0.008684	<a href="#">LGLYTFVNLANFVKSWTNLR</a>
0.4	2355.299271	-0.034029	<a href="#">KLLQMOPAQHGEIIK</a>
0.3	2355.248795	0.016447	<a href="#">FYEQVVQAIQRHIFDVK</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **LLLQVSLPELPGEYSMK**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 46029: 2371.261152 from(791.427660,3+) rtinseconds(2769) index(23560)

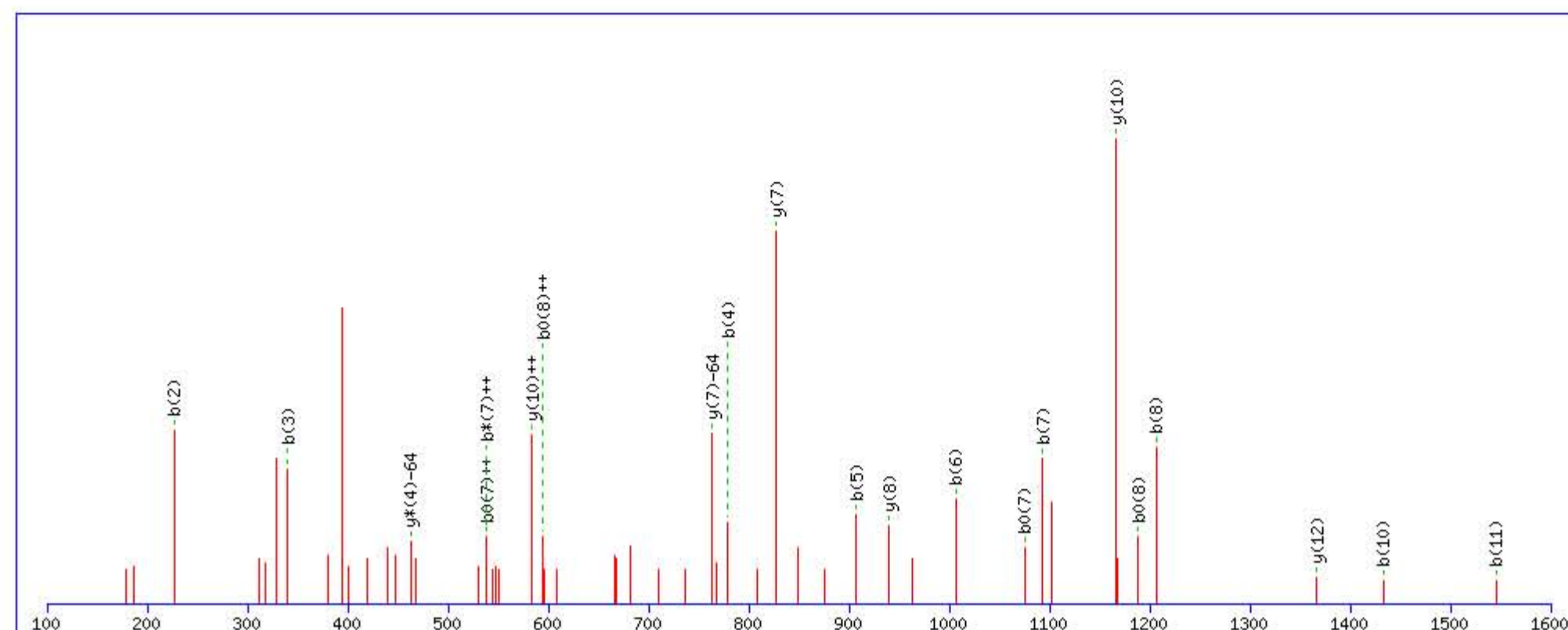
Title: Locus:1.1.1.3528.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2371.253098

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

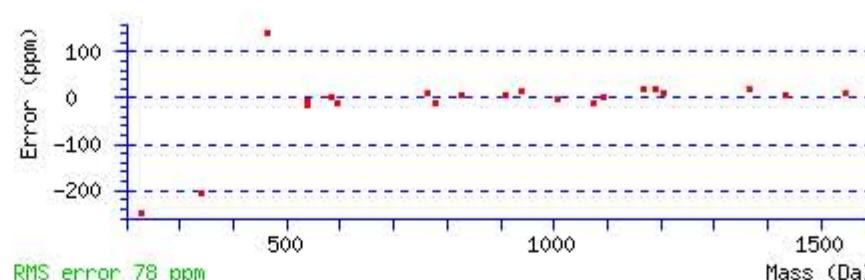
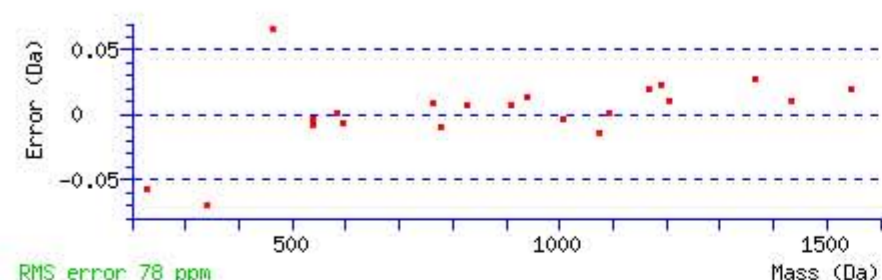
Q4 : Biotin:Thermo-21345 (Q)

M17 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285

Ions Score: 65 Expect: 6.8e-006

Matches : 21/282 fragment ions using 25 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							18
2	<b>227.175404</b>	114.091340					L	2259.176341	1130.091808	2242.149792	1121.578534	2241.165776	1121.086526	17
3	<b>340.259468</b>	170.633372					L	2146.092277	1073.549776	2129.065728	1065.036502	2128.081712	1064.544494	16
4	<b>779.484794</b>	390.246035	762.458245	381.732760			Q	2033.008213	1017.007745	2015.981664	1008.494470	2014.997648	1008.002462	15
5	<b>907.543372</b>	454.275324	890.516823	445.762049			Q	1593.782887	797.395082	1576.756338	788.881807	1575.772322	788.389799	14
6	<b>1006.611786</b>	503.809531	989.585237	495.296256			V	1465.724309	733.365793	1448.697760	724.852518	1447.713744	724.360510	13
7	<b>1093.643814</b>	547.325545	1076.617265	<b>538.812271</b>	<b>1075.633249</b>	<b>538.320263</b>	S	<b>1366.655895</b>	683.831586	1349.629346	675.318311	1348.645330	674.826303	12
8	<b>1206.727878</b>	603.867577	1189.701329	595.354303	<b>1188.717313</b>	<b>594.862294</b>	L	1279.623867	640.315572	1262.597318	631.802297	1261.613302	631.310289	11
9	1303.780642	652.393959	1286.754093	643.880685	1285.770077	643.888676	P	<b>1166.539803</b>	<b>583.773540</b>	1149.513254	575.260265	1148.529238	574.768257	10
10	<b>1432.823235</b>	716.915256	1415.796686	708.401981	1414.812670	707.909973	E	1069.487039	535.247158	1052.460490	526.733883	1051.476474	526.241875	9
11	<b>1545.907299</b>	773.457288	1528.880750	764.944013	1527.896734	764.452005	L	<b>940.444446</b>	470.725861	923.417897	462.212587	922.433881	461.720579	8
12	1642.960063	821.983670	1625.933514	813.470395	1624.949498	812.978387	P	<b>827.360382</b>	414.183829	810.333833	405.670555	809.349817	405.178547	7
13	1699.981527	850.494401	1682.954978	841.981127	1681.970962	841.489119	G	730.307618	365.657447	713.281069	357.144173	712.297053	356.652165	6
14	1829.024120	915.015698	1811.997571	906.502423	1811.013555	906.010415	E	673.286154	337.146715	656.259605	328.633441	655.275589	328.141433	5
15	1992.087449	996.547362	1975.060900	988.034088	1974.076884	987.542080	Y	544.243561	272.625419	527.217012	264.112144	526.232996	263.620136	4
16	2079.119477	1040.063376	2062.092928	1031.550102	2061.108912	1031.058094	S	381.180232	191.093754	364.153683	182.580480	363.169667	182.088472	3
17	2226.154877	1113.581076	2209.128328	1105.067802	2208.144312	1104.575794	M	294.148204	147.577740	277.121655	139.064466			2
18							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [LLLQVSLPELPGEYSMK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
65.0	2371.253098	0.008054	<a href="#">LLLQVSLPELPGEYSMK</a>
52.3	2371.253098	0.008054	<a href="#">LLLQVSLPELPGEYSMK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **MCPQLQQYEMHGPEGLR**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 46163: 2384.083392 from(795.701740,3+) rtinseconds(2056) index(32200)

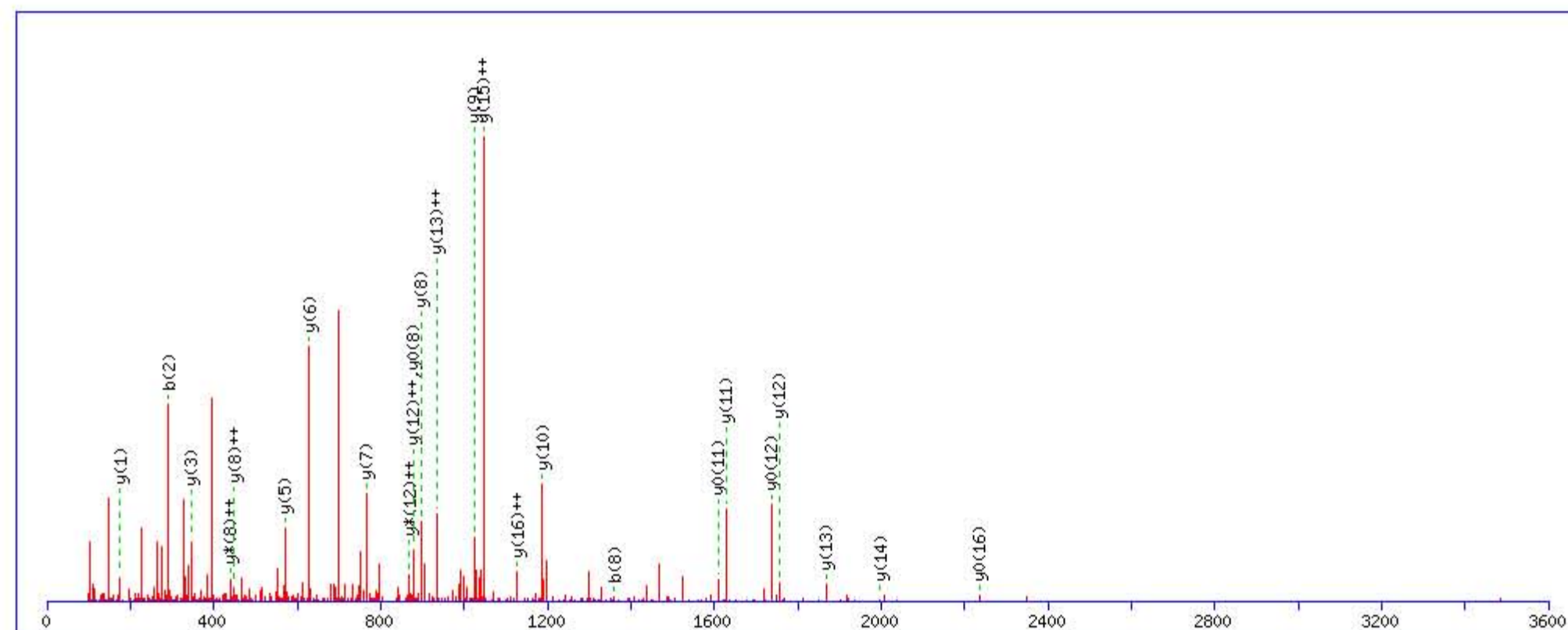
Title: Locus:1.1.1.3379.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2384.089767

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

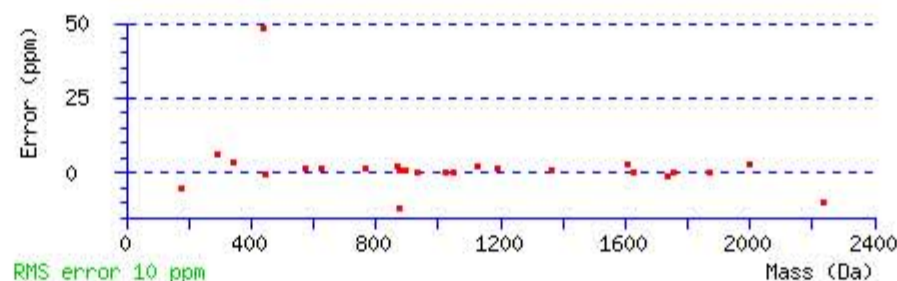
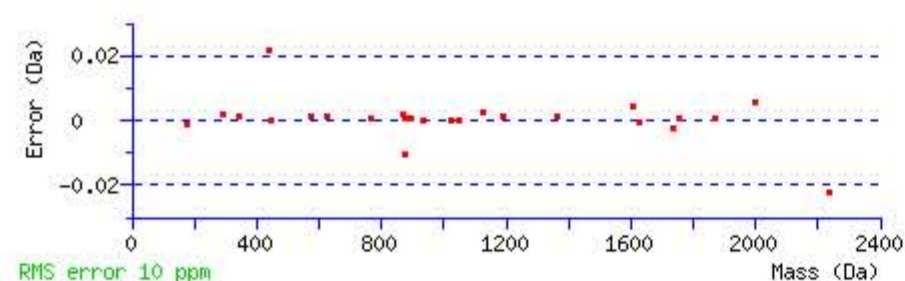
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 52 Expect: 5.7e-005

Matches : 25/164 fragment ions using 61 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							17
2	<b>292.078410</b>	146.542843					C	2254.056579	<b>1127.531927</b>	2237.030030	1119.018653	<b>2236.046014</b>	1118.526645	16
3	389.131174	195.069225					P	2094.025930	<b>1047.516603</b>	2076.999381	1039.003328	2076.015365	1038.511320	15
4	517.189752	259.098514	500.163203	250.585240			Q	<b>1996.973166</b>	998.990221	1979.946617	990.476947	1978.962601	989.984939	14
5	630.273816	315.640546	613.247267	307.127272			L	<b>1868.914588</b>	<b>934.960932</b>	1851.888039	926.447658	1850.904023	925.955650	13
6	758.332394	379.669835	741.305845	371.156561			Q	<b>1755.830524</b>	<b>878.418900</b>	1738.803975	<b>869.905626</b>	<b>1737.819959</b>	869.413618	12
7	1197.557720	599.282498	1180.531171	590.769224			Q	<b>1627.771946</b>	814.389611	1610.745397	805.876337	<b>1609.761381</b>	805.384329	11
8	<b>1360.621049</b>	680.814163	1343.594500	672.300888			Y	<b>1188.546620</b>	594.776948	1171.520071	586.263674	1170.536055	585.771666	10
9	1489.663642	745.335459	1472.637093	736.822185	1471.653077	736.330177	E	<b>1025.483291</b>	513.245284	1008.456742	504.732009	1007.472726	504.240001	9
10	1620.704127	810.855702	1603.677578	802.342427	1602.693562	801.850419	M	<b>896.440698</b>	<b>448.723987</b>	879.414149	<b>440.210713</b>	<b>878.430133</b>	439.718705	8
11	1757.763039	879.385158	1740.736490	870.871883	1739.752474	870.379875	H	<b>765.400213</b>	383.203745	748.373664	374.690470	747.389648	374.198462	7
12	1814.784503	907.895890	1797.757954	899.382615	1796.773938	898.890607	G	<b>628.341301</b>	314.674289	611.314752	306.161014	610.330736	305.669006	6
13	1911.837267	956.422272	1894.810718	947.908997	1893.826702	947.416989	P	<b>571.319837</b>	286.163557	554.293288	277.650282	553.309272	277.158274	5
14	2040.879860	1020.943568	2023.853311	1012.430294	2022.869295	1011.938286	E	474.267073	237.637175	457.240524	229.123900	456.256508	228.631892	4
15	2097.901324	1049.454300	2080.874775	1040.941025	2079.890759	1040.449017	G	<b>345.224480</b>	173.115878	328.197931	164.602603			3
16	2210.985388	1105.996332	2193.958839	1097.483057	2192.974823	1096.991049	L	288.203016	144.605146	271.176467	136.091872			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [MCPQLQQYEMHGPEGLR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
52.2	2384.089767	-0.006375	<a href="#">MCPQLQQYEMHGPEGLR</a>
42.8	2384.089767	-0.006375	<a href="#">MCPQLQQYEMHGPEGLR</a>
23.0	2384.089767	-0.006375	<a href="#">MCPQLQQYEMHGPEGLR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **MCPQLQQYEMHGPEGLR**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 46165: 2384.084832 from(795.702220,3+) rtinseconds(2076) index(19457)

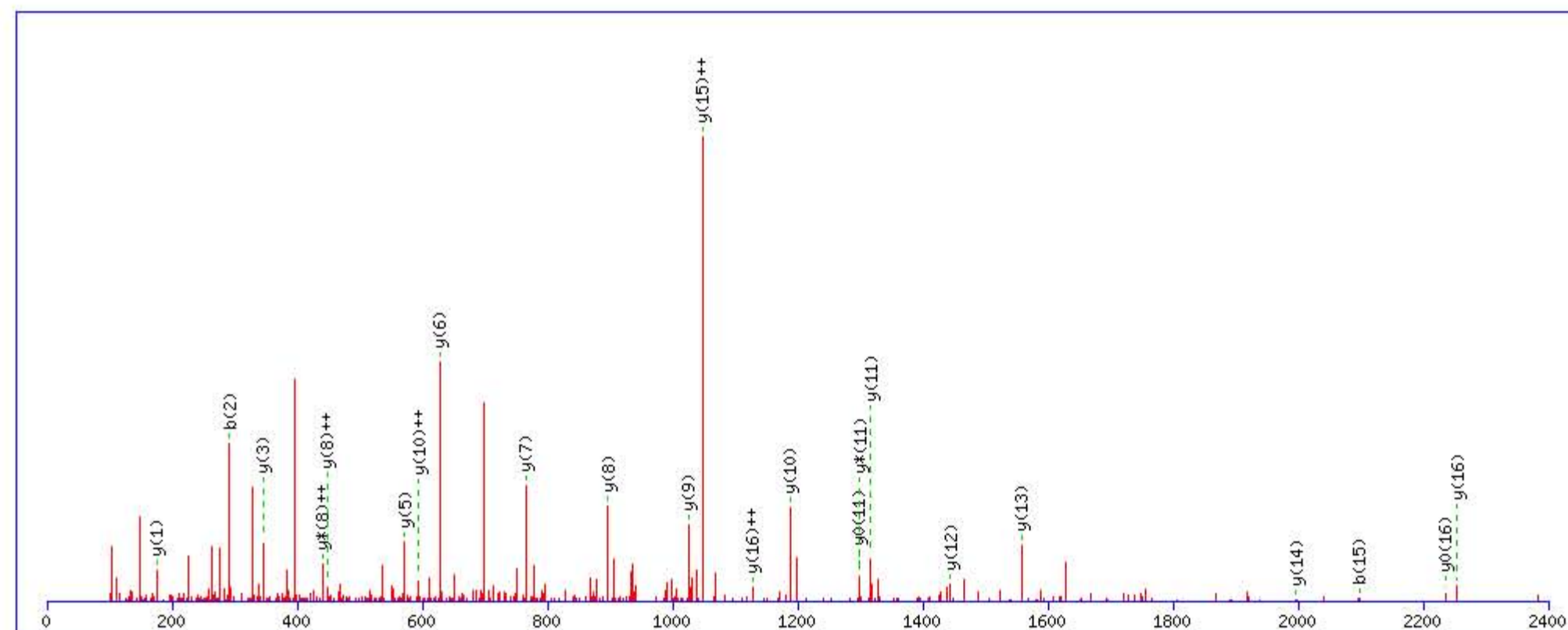
Title: Locus:1.1.1.3288.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2384.089767

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

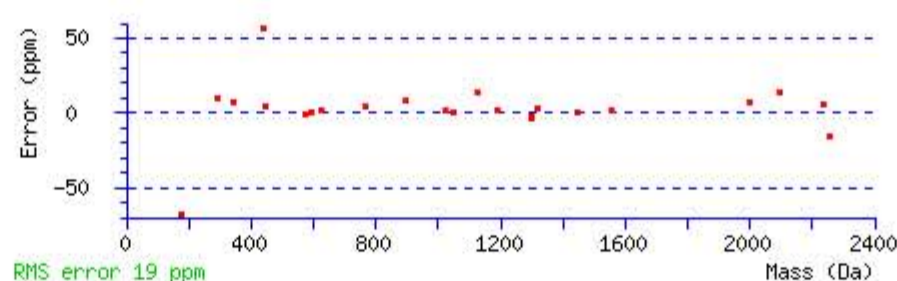
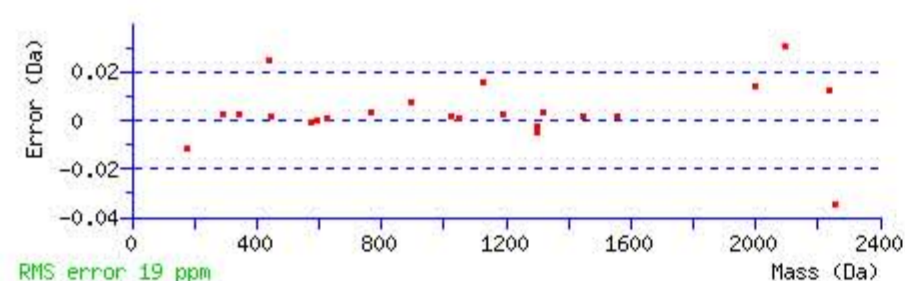
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 56 Expect: 2.4e-005

Matches : 23/164 fragment ions using 62 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							17
2	<b>292.078410</b>	146.542843					C	<b>2254.056579</b>	<b>1127.531927</b>	2237.030030	1119.018653	<b>2236.046014</b>	1118.526645	16
3	389.131174	195.069225					P	2094.025930	<b>1047.516603</b>	2076.999381	1039.003328	2076.015365	1038.511320	15
4	828.356500	414.681888	811.329951	406.168614			Q	<b>1996.973166</b>	998.990221	1979.946617	990.476947	1978.962601	989.984939	14
5	941.440564	471.223920	924.414015	462.710646			L	<b>1557.747840</b>	779.377558	1540.721291	770.864284	1539.737275	770.372276	13
6	1069.499142	535.253209	1052.472593	526.739935			Q	<b>1444.663776</b>	722.835526	1427.637227	714.322252	1426.653211	713.830244	12
7	1197.557720	599.282498	1180.531171	590.769224			Q	<b>1316.605198</b>	658.806237	<b>1299.578649</b>	650.292963	<b>1298.594633</b>	649.800955	11
8	1360.621049	680.814163	1343.594500	672.300888			Y	<b>1188.546620</b>	<b>594.776948</b>	1171.520071	586.263674	1170.536055	585.771666	10
9	1489.663642	745.335459	1472.637093	736.822185	1471.653077	736.330177	E	<b>1025.483291</b>	513.245284	1008.456742	504.732009	1007.472726	504.240001	9
10	1620.704127	810.855702	1603.677578	802.342427	1602.693562	801.850419	M	<b>896.440698</b>	<b>448.723987</b>	879.414149	<b>440.210713</b>	878.430133	439.718705	8
11	1757.763039	879.385158	1740.736490	870.871883	1739.752474	870.379875	H	<b>765.400213</b>	383.203745	748.373664	374.690470	747.389648	374.198462	7
12	1814.784503	907.895890	1797.757954	899.382615	1796.773938	898.890607	G	<b>628.341301</b>	314.674289	611.314752	306.161014	610.330736	305.669006	6
13	1911.837267	956.422272	1894.810718	947.908997	1893.826702	947.416989	P	<b>571.319837</b>	286.163557	554.293288	277.650282	553.309272	277.158274	5
14	2040.879860	1020.943568	2023.853311	1012.430294	2022.869295	1011.938286	E	474.267073	237.637175	457.240524	229.123900	456.256508	228.631892	4
15	<b>2097.901324</b>	1049.454300	2080.874775	1040.941025	2079.890759	1040.449017	G	<b>345.224480</b>	173.115878	328.197931	164.602603			3
16	2210.985388	1105.996332	2193.958839	1097.483057	2192.974823	1096.991049	L	288.203016	144.605146	271.176467	136.091872			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [MCPQLQQYEMHGPEGLR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
56.1	2384.089767	-0.004935	<a href="#">MCPQLQQYEMHGPEGLR</a>
49.4	2384.089767	-0.004935	<a href="#">MCPQLQQYEMHGPEGLR</a>
47.9	2384.089767	-0.004935	<a href="#">MCPQLQQYEMHGPEGLR</a>

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



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **MCPQLQQYEMHGPEGLR**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 46425: 2400.075432 from(801.032420,3+) rtinseconds(1983) index(18992)

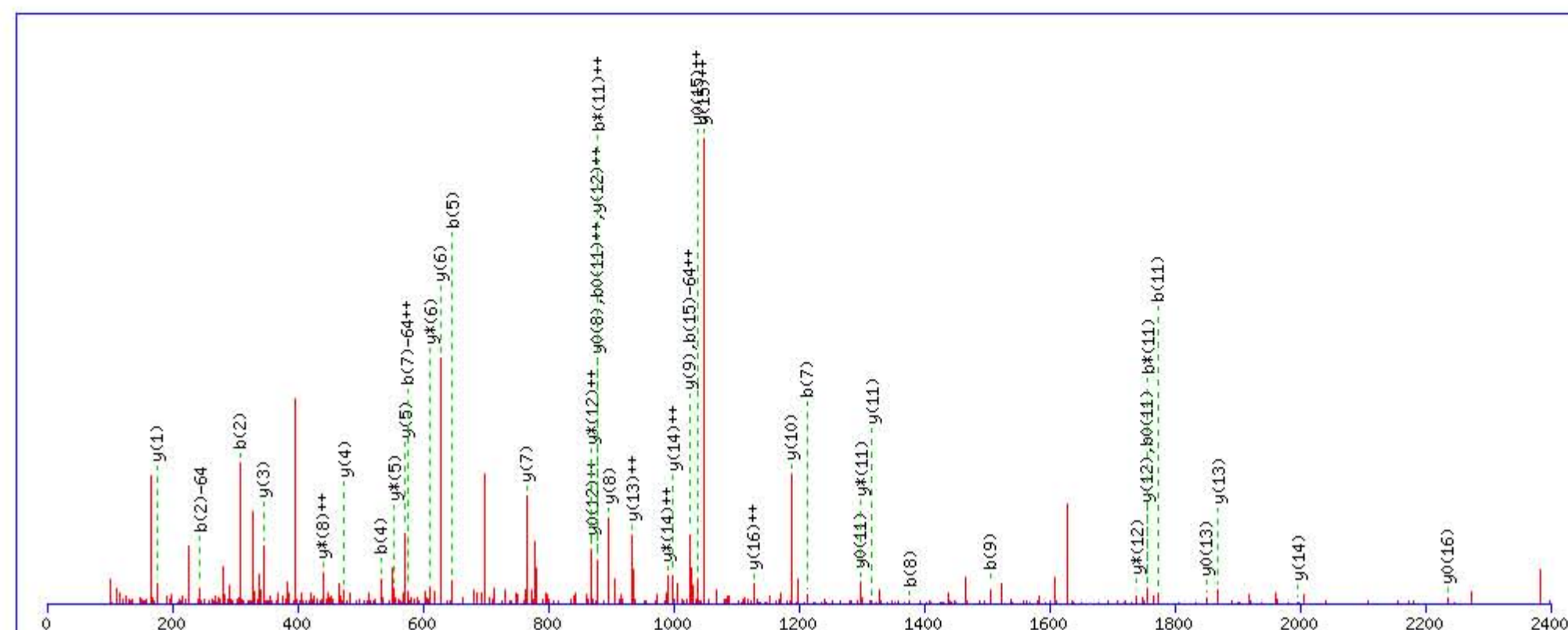
Title: Locus:1.1.1.3256.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2400.084686

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

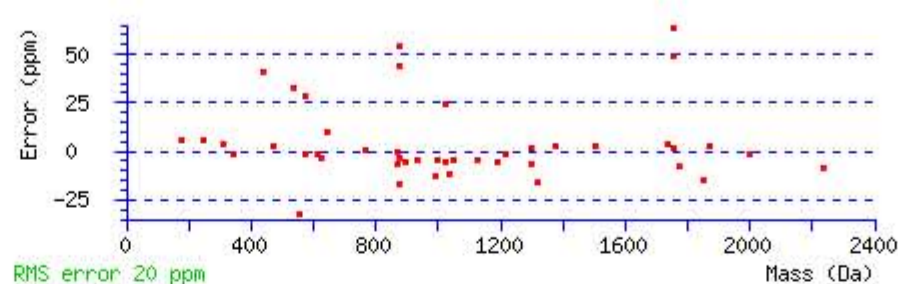
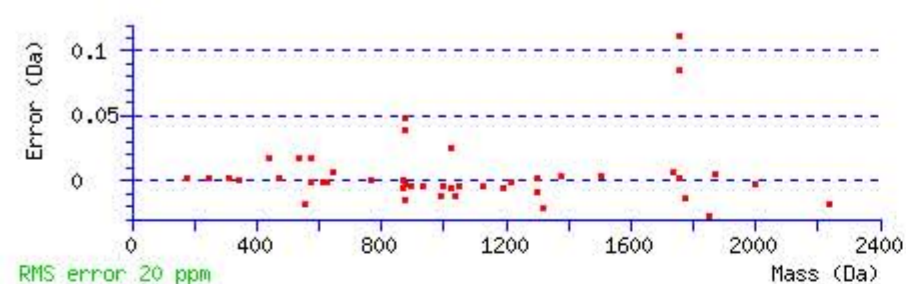
M1 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 49 Expect: 8.6e-005

Matches : 45/238 fragment ions using 106 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.042676	74.524976					M							17
2	<b>308.073325</b>	154.540301					C	2254.056579	<b>1127.531927</b>	2237.030030	1119.018653	<b>2236.046014</b>	1118.526645	16
3	405.126089	203.066683					P	2094.025930	<b>1047.516603</b>	2076.999381	1039.003328	2076.015365	<b>1038.511320</b>	15
4	<b>533.184667</b>	267.095972	516.158118	258.582697			Q	<b>1996.973166</b>	<b>998.990221</b>	1979.946617	<b>990.476947</b>	1978.962601	989.984939	14
5	<b>646.268731</b>	323.638004	629.242182	315.124729			L	<b>1868.914588</b>	<b>934.960932</b>	1851.888039	926.447658	<b>1850.904023</b>	925.955650	13
6	1085.494057	543.250667	1068.467508	534.737392			Q	<b>1755.830524</b>	<b>878.418900</b>	<b>1738.803975</b>	<b>869.905626</b>	1737.819959	<b>869.413618</b>	12
7	<b>1213.552635</b>	607.279956	1196.526086	598.766681			Q	<b>1316.605198</b>	658.806237	<b>1299.578649</b>	650.292963	<b>1298.594633</b>	649.800955	11
8	<b>1376.615964</b>	688.811620	1359.589415	680.298346			Y	<b>1188.546620</b>	594.776948	1171.520071	586.263674	1170.536055	585.771666	10
9	<b>1505.658557</b>	753.332917	1488.632008	744.819642	1487.647992	744.327634	E	<b>1025.483291</b>	513.245284	1008.456742	504.732009	1007.472726	504.240001	9
10	1636.699042	818.853159	1619.672493	810.339885	1618.688477	809.847877	M	<b>896.440698</b>	448.723987	879.414149	<b>440.210713</b>	<b>878.430133</b>	439.718705	8
11	<b>1773.757954</b>	887.382615	<b>1756.731405</b>	<b>878.869341</b>	<b>1755.747389</b>	<b>878.377333</b>	H	<b>765.400213</b>	383.203745	748.373664	374.690470	747.389648	374.198462	7
12	1830.779418	915.893347	1813.752869	907.380073	1812.768853	906.888065	G	<b>628.341301</b>	314.674289	<b>611.314752</b>	306.161014	610.330736	305.669006	6
13	1927.832182	964.419729	1910.805633	955.906455	1909.821617	955.414447	P	<b>571.319837</b>	286.163557	<b>554.293288</b>	277.650282	553.309272	277.158274	5
14	2056.874775	1028.941026	2039.848226	1020.427751	2038.864210	1019.935743	E	<b>474.267073</b>	237.637175	457.240524	229.123900	456.256508	228.631892	4
15	2113.896239	1057.451758	2096.869690	1048.938483	2095.885674	1048.446475	G	<b>345.224480</b>	173.115878	328.197931	164.602603			3
16	2226.980303	1113.993790	2209.953754	1105.480515	2208.969738	1104.988507	L	288.203016	144.605146	271.176467	136.091872			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [MCPQLQQYEMHGPEGLR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
49.4	2400.084686	-0.009254	<a href="#">MCPQLQQYEMHGPEGLR</a>
48.7	2400.084686	-0.009254	<a href="#">MCPQLQQYEMHGPEGLR</a>
30.3	2400.084686	-0.009254	<a href="#">MCPQLQQYEMHGPEGLR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **YSDASDCHGEDSQAFCEK**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 46696: 2415.923292 from(806.315040,3+) rtinseconds(1583) index(16396)

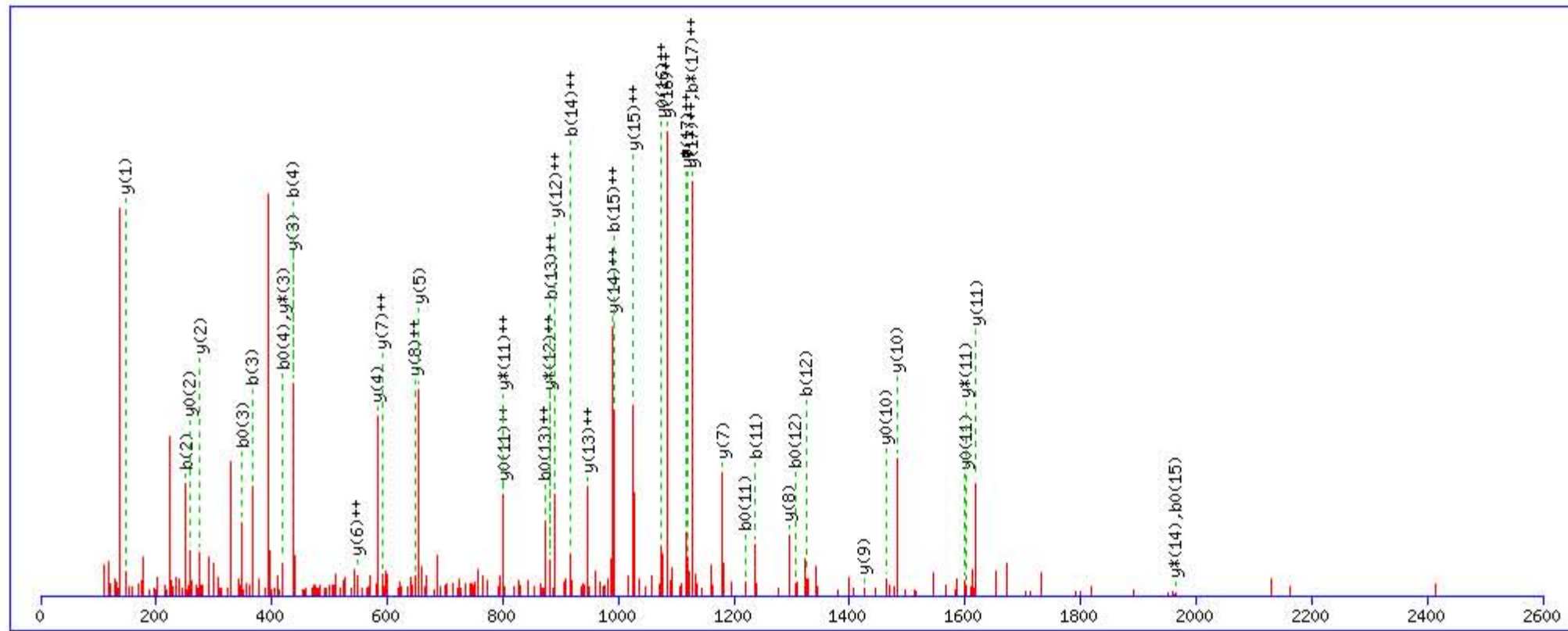
Title: Locus:1.1.1.3117.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2415.940598

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

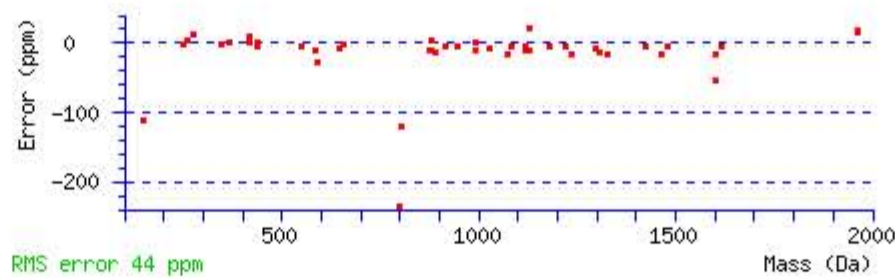
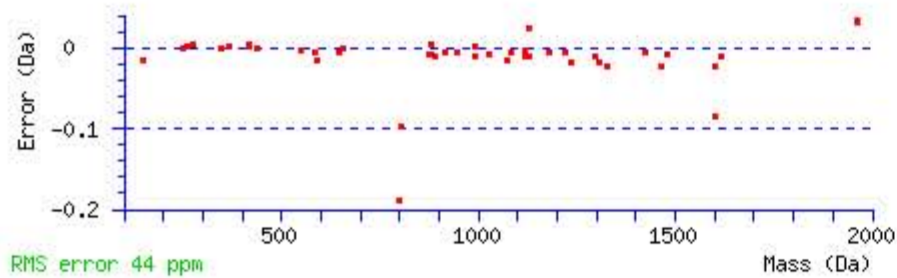
Variable modifications:

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 49 Expect: 1.3e-005

Matches : 46/176 fragment ions using 110 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							18
2	<b>251.102633</b>	126.054954			233.092068	117.049672	S	2253.884545	<b>1127.445910</b>	2236.857996	<b>1118.932636</b>	2235.873980	<b>1118.440628</b>	17
3	<b>366.129576</b>	183.568426			<b>348.119011</b>	174.563144	D	2166.852517	<b>1083.929896</b>	2149.825968	1075.416622	2148.841952	<b>1074.924614</b>	16
4	<b>437.166690</b>	219.086983			<b>419.156125</b>	210.081700	A	2051.825574	<b>1026.416425</b>	2034.799025	1017.903150	2033.815009	1017.411142	15
5	524.198718	262.602997			506.188153	253.597715	S	1980.788460	<b>990.897868</b>	<b>1963.761911</b>	982.384594	1962.777895	981.892586	14
6	639.225661	320.116469			621.215096	311.111186	D	1893.756432	<b>947.381854</b>	1876.729883	938.868580	1875.745867	938.376572	13
7	799.256310	400.131793			781.245745	391.126510	C	1778.729489	<b>889.868383</b>	1761.702940	<b>881.355108</b>	1760.718924	880.863100	12
8	936.315222	468.661249			918.304657	459.655966	H	<b>1618.698840</b>	809.853058	<b>1601.672291</b>	<b>801.339784</b>	<b>1600.688275</b>	<b>800.847776</b>	11
9	993.336686	497.171981			975.326121	488.166699	G	<b>1481.639928</b>	741.323602	1464.613379	732.810328	<b>1463.629363</b>	732.318320	10
10	1122.379279	561.693278			1104.368714	552.687995	E	<b>1424.618464</b>	712.812870	1407.591915	704.299596	1406.607899	703.807588	9
11	<b>1237.406222</b>	619.206749			<b>1219.395657</b>	610.201467	D	<b>1295.575871</b>	<b>648.291574</b>	1278.549322	639.778299	1277.565306	639.286291	8
12	<b>1324.438250</b>	662.722763			<b>1306.427685</b>	653.717481	S	<b>1180.548928</b>	<b>590.778102</b>	1163.522379	582.264828	1162.538363	581.772820	7
13	1763.663576	<b>882.335426</b>	1746.637027	873.822152	1745.653011	<b>873.330144</b>	Q	1093.516900	<b>547.262088</b>	1076.490351	538.748814	1075.506335	538.256806	6
14	1834.700690	<b>917.853983</b>	1817.674141	909.340709	1816.690125	908.848701	A	<b>654.291574</b>	327.649425	637.265025	319.136151	636.281009	318.644143	5
15	1981.769104	<b>991.388190</b>	1964.742555	982.874916	<b>1963.758539</b>	982.382908	F	<b>583.254460</b>	292.130868	566.227911	283.617594	565.243895	283.125586	4
16	2141.799753	1071.403514	2124.773204	1062.890240	2123.789188	1062.398232	C	<b>436.186046</b>	218.596661	<b>419.159497</b>	210.083386	418.175481	209.591378	3
17	2270.842346	1135.924811	2253.815797	<b>1127.411536</b>	2252.831781	1126.919528	E	<b>276.155397</b>	138.581337	259.128848	130.068062	<b>258.144832</b>	129.576054	2
18							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [YSDASDCHGEDSQAFCEK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
48.8	2415.940598	-0.017306	<a href="#">YSDASDCHGEDSQAFCEK</a>

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

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **MCPQLQQYEMHGPEGLR**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 50318: 2695.252842 from(899.424890,3+) rtinseconds(2228) index(33221)

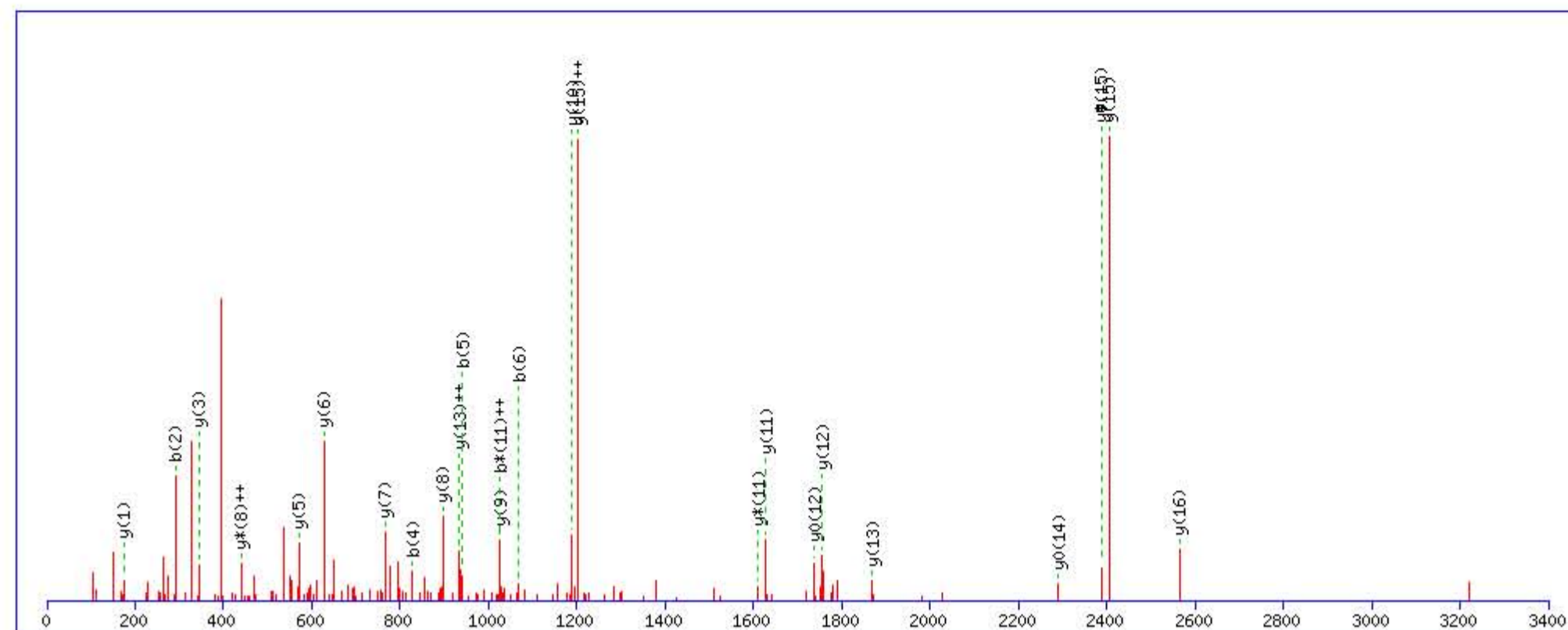
Title: Locus:1.1.1.3439.25 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2695.256516

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

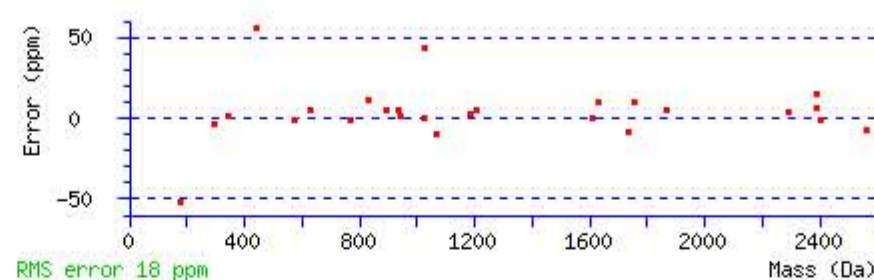
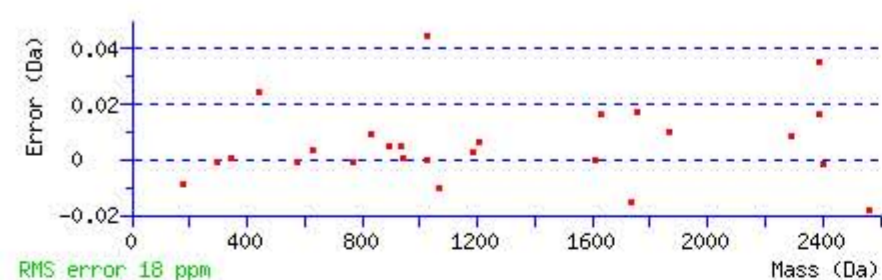
Q4 : Biotin:Thermo-21345 (Q)

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 61 Expect: 1.3e-005

Matches : 26/164 fragment ions using 59 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							17
2	<b>292.078410</b>	146.542843					C	<b>2565.223327</b>	1283.115301	2548.196778	1274.602027	2547.212762	1274.110019	16
3	389.131174	195.069225					P	<b>2405.192678</b>	<b>1203.099977</b>	<b>2388.166129</b>	1194.586702	<b>2387.182113</b>	1194.094694	15
4	<b>828.356500</b>	414.681888	811.329951	406.168614			Q	2308.139914	1154.573595	2291.113365	1146.060320	<b>2290.129349</b>	1145.568312	14
5	<b>941.440564</b>	471.223920	924.414015	462.710646			L	<b>1868.914588</b>	<b>934.960932</b>	1851.888039	926.447658	1850.904023	925.955650	13
6	<b>1069.499142</b>	535.253209	1052.472593	526.739935			Q	<b>1755.830524</b>	878.418900	1738.803975	869.905626	<b>1737.819959</b>	869.413618	12
7	1508.724468	754.865872	1491.697919	746.352598			Q	<b>1627.771946</b>	814.389611	<b>1610.745397</b>	805.876337	1609.761381	805.384329	11
8	1671.787797	836.397537	1654.761248	827.884262			Y	<b>1188.546620</b>	594.776948	1171.520071	586.263674	1170.536055	585.771666	10
9	1800.830390	900.918833	1783.803841	892.405559	1782.819825	891.913551	E	<b>1025.483291</b>	513.245284	1008.456742	504.732009	1007.472726	504.240001	9
10	1931.870875	966.439076	1914.844326	957.925801	1913.860310	957.433793	M	<b>896.440698</b>	448.723987	879.414149	<b>440.210713</b>	878.430133	439.718705	8
11	2068.929787	1034.968531	2051.903238	<b>1026.455257</b>	2050.919222	1025.963249	H	<b>765.400213</b>	383.203745	748.373664	374.690470	747.389648	374.198462	7
12	2125.951251	1063.479263	2108.924702	1054.965989	2107.940686	1054.473981	G	<b>628.341301</b>	314.674289	611.314752	306.161014	610.330736	305.669006	6
13	2223.004015	1112.005645	2205.977466	1103.492371	2204.993450	1103.000363	P	<b>571.319837</b>	286.163557	554.293288	277.650282	553.309272	277.158274	5
14	2352.046608	1176.526942	2335.020059	1168.013667	2334.036043	1167.521659	E	474.267073	237.637175	457.240524	229.123900	456.256508	228.631892	4
15	2409.068072	1205.037674	2392.041523	1196.524399	2391.057507	1196.032391	G	<b>345.224480</b>	173.115878	328.197931	164.602603			3
16	2522.152136	1261.579706	2505.125587	1253.066431	2504.141571	1252.574424	L	288.203016	144.605146	271.176467	136.091872			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **MCPQLQQYEMHGPEGLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
60.5	2695.256516	-0.003674	<a href="#">MCPQLQQYEMHGPEGLR</a>
50.8	2695.256516	-0.003674	<a href="#">MCPQLQQYEMHGPEGLR</a>
34.9	2695.256516	-0.003674	<a href="#">MCPQLQQYEMHGPEGLR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **MCPQLQQYEMHGPEGLR**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 50481: 2711.245496 from(678.818650,4+) rtinseconds(2143) index(32702)

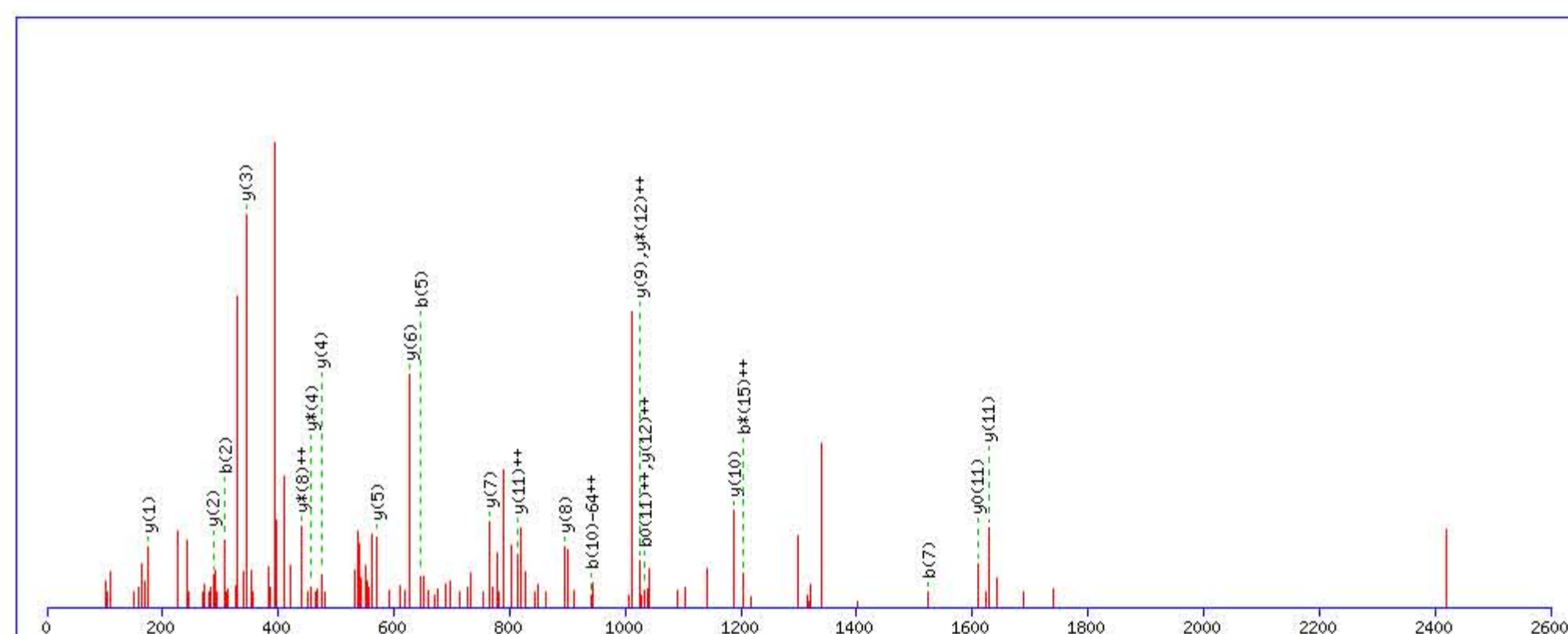
Title: Locus:1.1.1.3410.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2711.251434

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

M1 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285

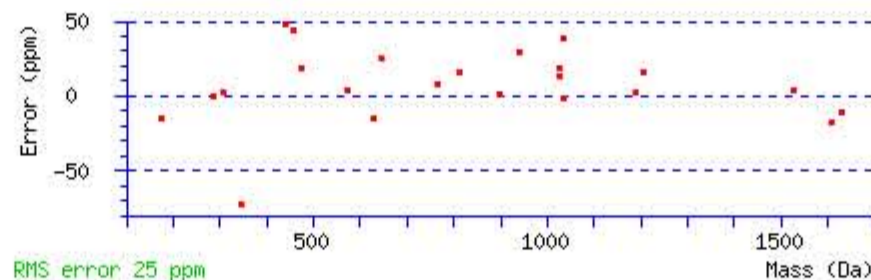
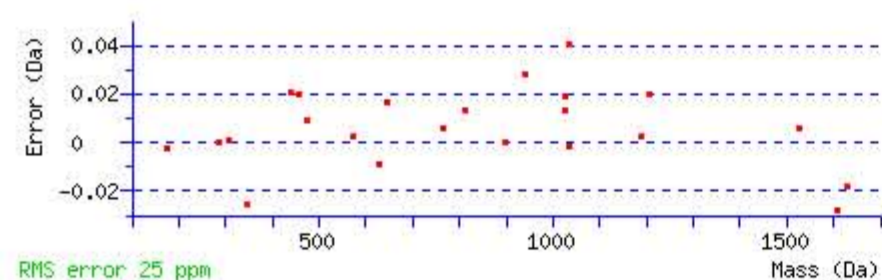
Q6 : Biotin:Thermo-21345 (Q)

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.0095

Matches : 23/238 fragment ions using 70 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.042676	74.524976					M							17
2	<b>308.073325</b>	154.540301					C	2565.223327	1283.115302	2548.196778	1274.602027	2547.212762	1274.110019	16
3	405.126089	203.066683					P	2405.192678	1203.099977	2388.166129	1194.586702	2387.182113	1194.094694	15
4	533.184667	267.095972	516.158118	258.582697			Q	2308.139914	1154.573595	2291.113365	1146.060320	2290.129349	1145.568312	14
5	<b>646.268731</b>	323.638004	629.242182	315.124729			L	2180.081336	1090.544306	2163.054787	1082.031031	2162.070771	1081.539023	13
6	1085.494057	543.250667	1068.467508	534.737392			Q	2066.997272	<b>1034.002274</b>	2049.970723	<b>1025.488999</b>	2048.986707	1024.996991	12
7	<b>1524.719383</b>	762.863330	1507.692834	754.350055			Q	<b>1627.771946</b>	<b>814.389611</b>	1610.745397	805.876337	<b>1609.761381</b>	805.384329	11
8	1687.782712	844.394994	1670.756163	835.881720			Y	<b>1188.546620</b>	594.776948	1171.520071	586.263674	1170.536055	585.771666	10
9	1816.825305	908.916291	1799.798756	900.403016	1798.814740	899.911008	E	<b>1025.483291</b>	513.245284	1008.456742	504.732009	1007.472726	504.240001	9
10	1947.865790	974.436533	1930.839241	965.923259	1929.855225	965.431251	M	<b>896.440698</b>	448.723987	879.414149	<b>440.210713</b>	878.430133	439.718705	8
11	2084.924702	1042.965989	2067.898153	1034.452715	2066.914137	<b>1033.960707</b>	H	<b>765.400213</b>	383.203745	748.373664	374.690470	747.389648	374.198462	7
12	2141.946166	1071.476721	2124.919617	1062.963446	2123.935601	1062.471439	G	<b>628.341301</b>	314.674289	611.314752	306.161014	610.330736	305.669006	6
13	2238.998930	1120.003103	2221.972381	1111.489828	2220.988365	1110.997821	P	<b>571.319837</b>	286.163557	554.293288	277.650282	553.309272	277.158274	5
14	2368.041523	1184.524400	2351.014974	1176.011125	2350.030958	1175.519117	E	<b>474.267073</b>	237.637175	<b>457.240524</b>	229.123900	456.256508	228.631892	4
15	2425.062987	1213.035132	2408.036438	<b>1204.521857</b>	2407.052422	1204.029849	G	<b>345.224480</b>	173.115878	328.197931	164.602603			3
16	2538.147051	1269.577164	2521.120502	1261.063889	2520.136486	1260.571881	L	<b>288.203016</b>	144.605146	271.176467	136.091872			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [MCPQLQQYEMHGPEGLR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
31.6	2711.251434	-0.005938	<a href="#">MCPQLQQYEMHGPEGLR</a>
31.4	2711.251434	-0.005938	<a href="#">MCPQLQQYEMHGPEGLR</a>
30.4	2711.251434	-0.005938	<a href="#">MCPQLQQYEMHGPEGLR</a>
27.3	2711.251434	-0.005938	<a href="#">MCPQLQQYEMHGPEGLR</a>
20.7	2711.251434	-0.005938	<a href="#">MCPQLQQYEMHGPEGLR</a>
17.8	2711.251434	-0.005938	<a href="#">MCPQLQQYEMHGPEGLR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **MCPQLQQYEMHGPEGLR**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 50512: 2711.273136 from(678.825560,4+) rtinseconds(2209) index(6031)

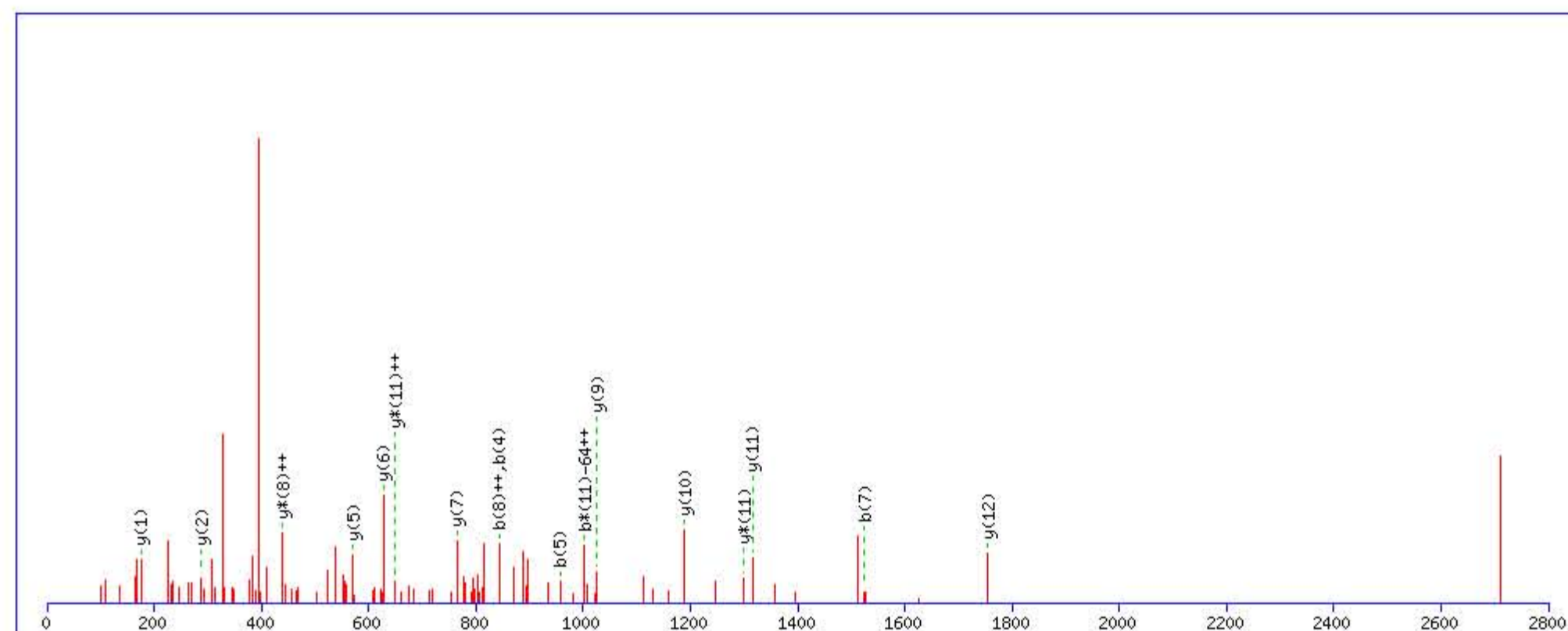
Title: Locus:1.1.1.3289.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2711.251434

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

M1 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285

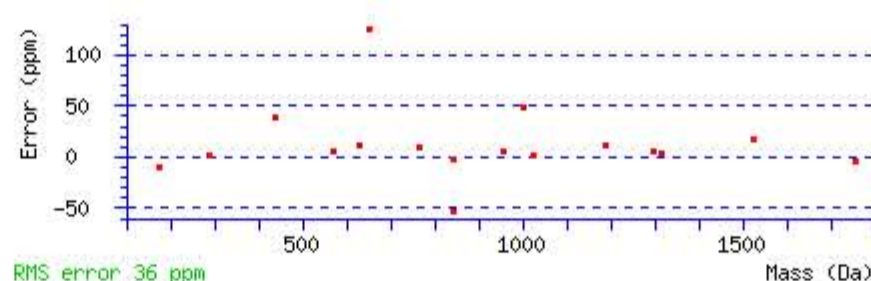
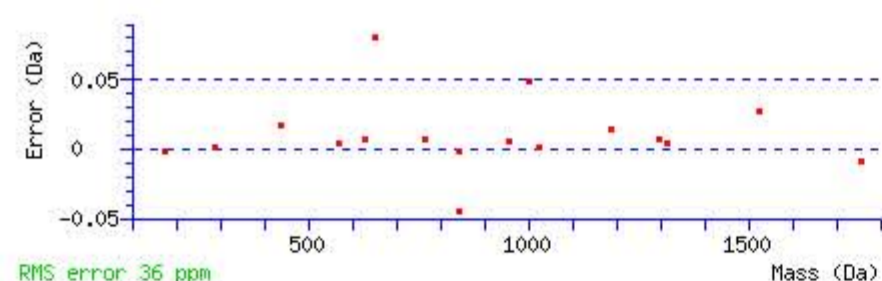
Q4 : Biotin:Thermo-21345 (Q)

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 40 Expect: 0.00017

Matches : 17/238 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.042676	74.524976					M							17
2	308.073325	154.540301					C	2565.223327	1283.115302	2548.196778	1274.602027	2547.212762	1274.110019	16
3	405.126089	203.066683					P	2405.192678	1203.099977	2388.166129	1194.586702	2387.182113	1194.094694	15
4	<b>844.351415</b>	422.679346	827.324866	414.166071			Q	2308.139914	1154.573595	2291.113365	1146.060320	2290.129349	1145.568312	14
5	<b>957.435479</b>	479.221378	940.408930	470.708103			L	1868.914588	934.960932	1851.888039	926.447658	1850.904023	925.955650	13
6	1396.660805	698.834041	1379.634256	690.320766			Q	<b>1755.830524</b>	878.418900	1738.803975	869.905626	1737.819959	869.413618	12
7	<b>1524.719383</b>	762.863330	1507.692834	754.350055			Q	<b>1316.605198</b>	658.806237	<b>1299.578649</b>	<b>650.292963</b>	1298.594633	649.800955	11
8	1687.782712	<b>844.394994</b>	1670.756163	835.881720			Y	<b>1188.546620</b>	594.776948	1171.520071	586.263674	1170.536055	585.771666	10
9	1816.825305	908.916291	1799.798756	900.403016	1798.814740	899.911008	E	<b>1025.483291</b>	513.245284	1008.456742	504.732009	1007.472726	504.240001	9
10	1947.865790	974.436533	1930.839241	965.923259	1929.855225	965.431251	M	896.440698	448.723987	879.414149	<b>440.210713</b>	878.430133	439.718705	8
11	2084.924702	1042.965989	2067.898153	1034.452715	2066.914137	1033.960707	H	<b>765.400213</b>	383.203745	748.373664	374.690470	747.389648	374.198462	7
12	2141.946166	1071.476721	2124.919617	1062.963446	2123.935601	1062.471439	G	<b>628.341301</b>	314.674289	611.314752	306.161014	610.330736	305.669006	6
13	2238.998930	1120.003103	2221.972381	1111.489828	2220.988365	1110.997821	P	<b>571.319837</b>	286.163557	554.293288	277.650282	553.309272	277.158274	5
14	2368.041523	1184.524400	2351.014974	1176.011125	2350.030958	1175.519117	E	474.267073	237.637175	457.240524	229.123900	456.256508	228.631892	4
15	2425.062987	1213.035132	2408.036438	1204.521857	2407.052422	1204.029849	G	345.224480	173.115878	328.197931	164.602603			3
16	2538.147051	1269.577164	2521.120502	1261.063889	2520.136486	1260.571881	L	<b>288.203016</b>	144.605146	271.176467	136.091872			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **MCPQLQQYEMHGPEGLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
40.4	2711.251434	0.021702	<a href="#">MCPQLQQYEMHGPEGLR</a>
27.4	2711.251434	0.021702	<a href="#">MCPQLQQYEMHGPEGLR</a>
15.2	2711.251434	0.021702	<a href="#">MCPQLQQYEMHGPEGLR</a>
0.1	2711.300659	-0.027523	<a href="#">GEDQSEQEKQERLETQR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **MCPQLQYEMHGPEGLR**

Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

Match to Query 54074: 3006.423816 from(752.613230,4+) rtinseconds(2363) index(33885)

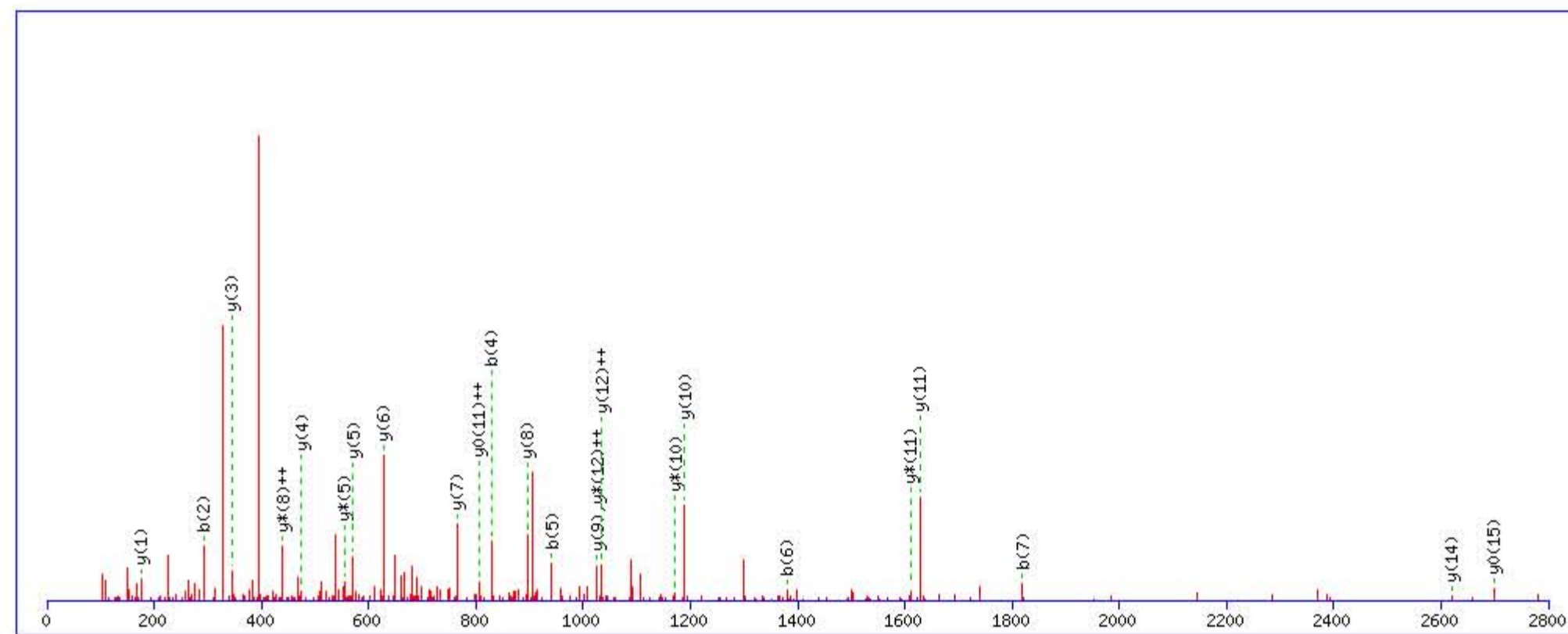
Title: Locus:1.1.1.3486.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3006.423264

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

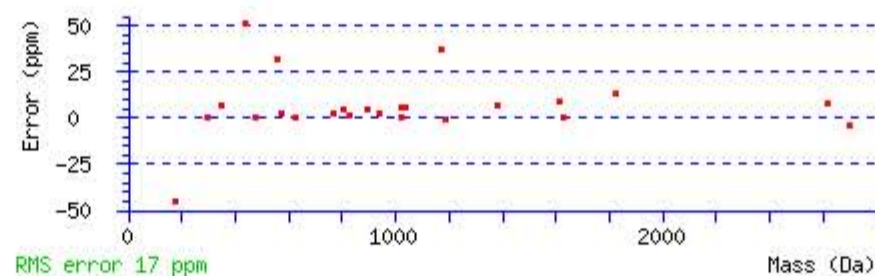
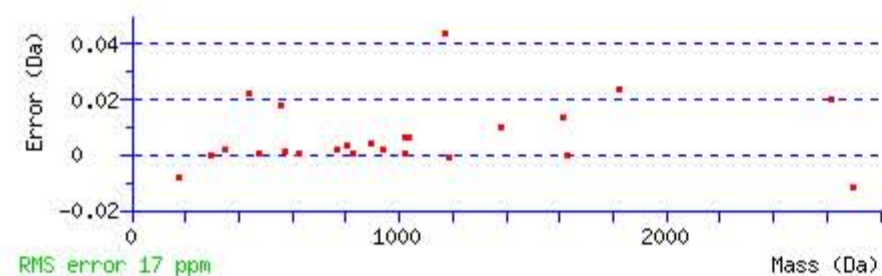
Q6 : Biotin:Thermo-21345 (Q)

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 30 Expect: 0.02

Matches : 24/164 fragment ions using 66 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							17
2	<b>292.078410</b>	146.542843					C	2876.390075	1438.698675	2859.363526	1430.185401	2858.379510	1429.693393	16
3	389.131174	195.069225					P	2716.359426	1358.683351	2699.332877	1350.170076	<b>2698.348861</b>	1349.678068	15
4	<b>828.356500</b>	414.681888	811.329951	406.168614			Q	<b>2619.306662</b>	1310.156969	2602.280113	1301.643694	2601.296097	1301.151686	14
5	<b>941.440564</b>	471.223920	924.414015	462.710646			L	2180.081336	1090.544306	2163.054787	1082.031031	2162.070771	1081.539023	13
6	<b>1380.665890</b>	690.836583	1363.639341	682.323309			Q	2066.997272	<b>1034.002274</b>	2049.970723	<b>1025.488999</b>	2048.986707	1024.996991	12
7	<b>1819.891216</b>	910.449246	1802.864667	901.935972			Q	<b>1627.771946</b>	814.389611	<b>1610.745397</b>	805.876337	1609.761381	<b>805.384329</b>	11
8	1982.954545	991.980911	1965.927996	983.467636			Y	<b>1188.546620</b>	594.776948	<b>1171.520071</b>	586.263674	1170.536055	585.771666	10
9	2111.997138	1056.502207	2094.970589	1047.988932	2093.986573	1047.496925	E	<b>1025.483291</b>	513.245284	1008.456742	504.732009	1007.472726	504.240001	9
10	2243.037623	1122.022450	2226.011074	1113.509175	2225.027058	1113.017167	M	<b>896.440698</b>	448.723987	879.414149	<b>440.210713</b>	878.430133	439.718705	8
11	2380.096535	1190.551906	2363.069986	1182.038631	2362.085970	1181.546623	H	<b>765.400213</b>	383.203745	748.373664	374.690470	747.389648	374.198462	7
12	2437.117999	1219.062637	2420.091450	1210.549363	2419.107434	1210.057355	G	<b>628.341301</b>	314.674289	611.314752	306.161014	610.330736	305.669006	6
13	2534.170763	1267.589019	2517.144214	1259.075745	2516.160198	1258.583737	P	<b>571.319837</b>	286.163557	<b>554.293288</b>	277.650282	553.309272	277.158274	5
14	2663.213356	1332.110316	2646.186807	1323.597041	2645.202791	1323.105034	E	<b>474.267073</b>	237.637175	457.240524	229.123900	456.256508	228.631892	4
15	2720.234820	1360.621048	2703.208271	1352.107773	2702.224255	1351.615766	G	<b>345.224480</b>	173.115878	328.197931	164.602603			3
16	2833.318884	1417.163080	2816.292335	1408.649806	2815.308319	1408.157798	L	288.203016	144.605146	271.176467	136.091872			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **MCPQLQYEMHGPEGLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
30.2	3006.423264	0.000552	<b>MCPQLQYEMHGPEGLR</b>

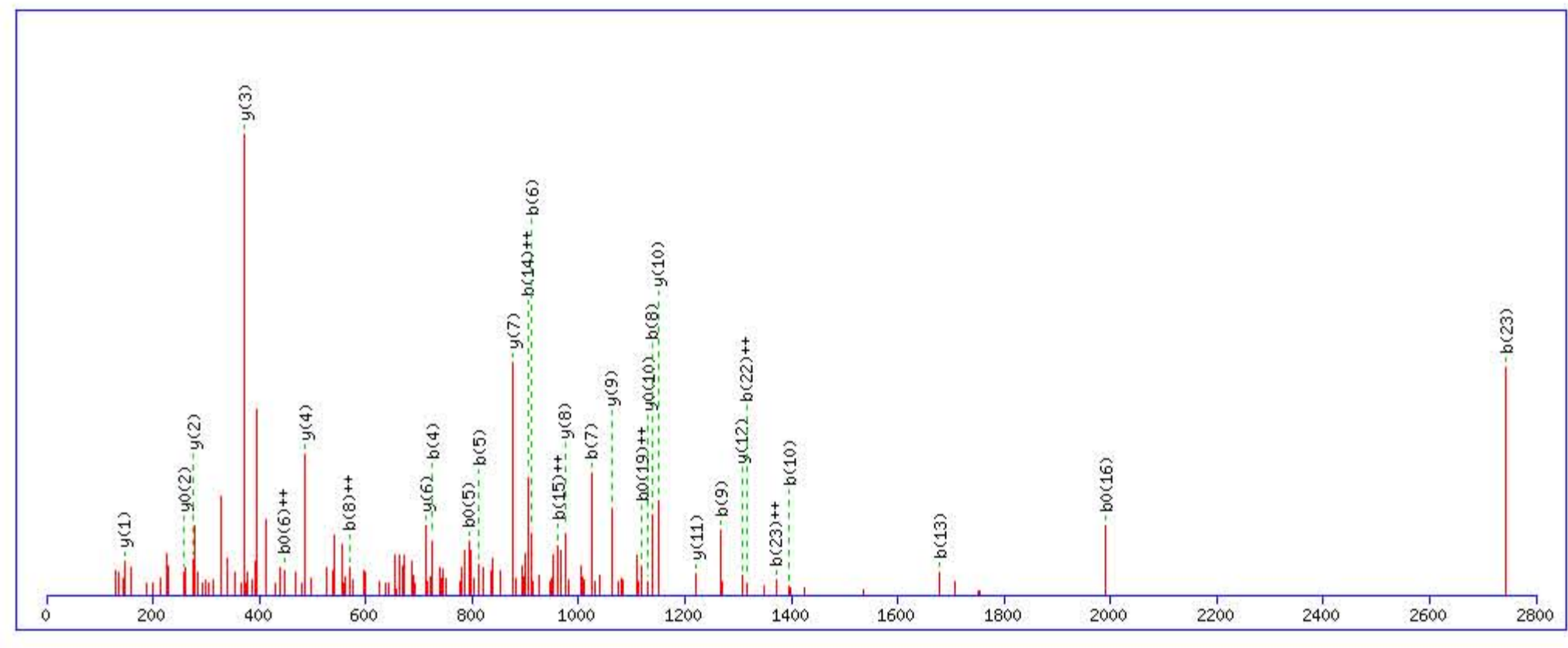
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AVDQSVLLMKPDAELSASSVYNLLPEK**  
 Found in **A2MG\_HUMAN**, Alpha-2-macroglobulin OS=Homo sapiens GN=A2M PE=1 SV=3

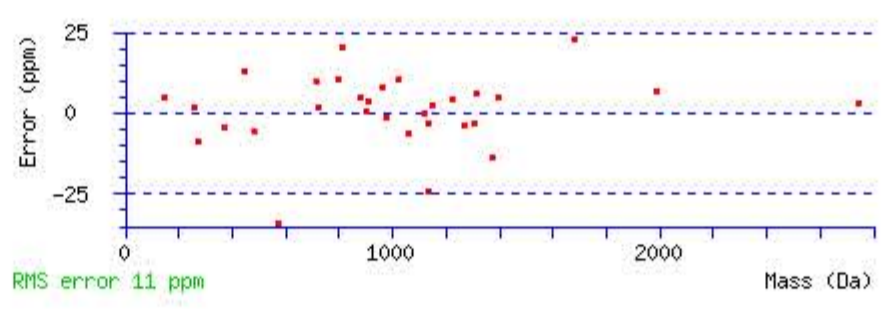
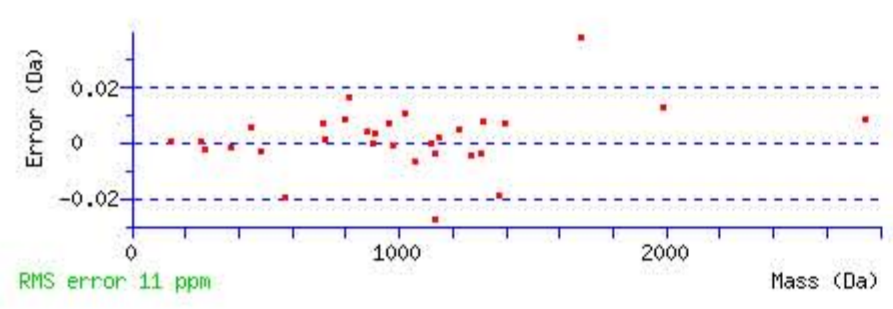
Match to Query 56579: 3227.682296 from(807.927850,4+) rtinseconds(2780) index(36508)  
 Title: Locus:1.1.1.3630.21 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3227.682129  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q4 : Biotin:Thermo-21345 (Q)  
 Ions Score: 70 Expect: 3.5e-007  
 Matches : 31/300 fragment ions using 59 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							27
2	171.112804	86.060040					V	3157.652336	1579.329806	3140.625787	1570.816531	3139.641771	1570.324523	26
3	286.139747	143.573512			268.129182	134.568229	D	3058.583922	1529.795599	3041.557373	1521.282324	3040.573357	1520.790316	25
4	<b>725.365073</b>	363.186175	708.338524	354.672900	707.354508	354.180892	Q	2943.556979	1472.282127	2926.530430	1463.768853	2925.546414	1463.276845	24
5	<b>812.397101</b>	406.702189	795.370552	398.188914	<b>794.386536</b>	397.696906	S	2504.331653	1252.669464	2487.305104	1244.156190	2486.321088	1243.664182	23
6	<b>911.465515</b>	456.236396	894.438966	447.723121	893.454950	<b>447.231113</b>	V	2417.299625	1209.153451	2400.273076	1200.640176	2399.289060	1200.148168	22
7	<b>1024.549579</b>	512.778427	1007.523030	504.265153	1006.539014	503.773145	L	2318.231211	1159.619243	2301.204662	1151.105969	2300.220646	1150.613961	21
8	<b>1137.633643</b>	<b>569.320459</b>	1120.607094	560.807185	1119.623078	560.315177	L	2205.147147	1103.077212	2188.120598	1094.563937	2187.136582	1094.071929	20
9	<b>1268.674128</b>	634.840702	1251.647579	626.327428	1250.663563	625.835419	M	2092.063083	1046.535179	2075.036534	1038.021905	2074.052518	1037.529897	19
10	<b>1396.769091</b>	698.888183	1379.742542	690.374909	1378.758526	689.882901	K	1961.022598	981.014937	1943.996049	972.501663	1943.012033	972.009655	18
11	1493.821855	747.414565	1476.795306	738.901291	1475.811290	738.409283	P	1832.927635	916.967456	1815.901086	908.454181	1814.917070	907.962173	17
12	1608.848798	804.928037	1591.822249	796.414763	1590.838233	795.922755	D	1735.874871	868.441074	1718.848322	859.927799	1717.864306	859.435791	16
13	<b>1679.885912</b>	840.446594	1662.859363	831.933320	1661.875347	831.441311	A	1620.847928	810.927602	1603.821379	802.414328	1602.837363	801.922320	15
14	1808.928505	<b>904.967891</b>	1791.901956	896.454616	1790.917940	895.962608	E	1549.810814	775.409045	1532.784265	766.895771	1531.800249	766.403763	14
15	1922.012569	<b>961.509923</b>	1904.986020	952.996648	1904.002004	952.504640	L	1420.768221	710.887749	1403.741672	702.374474	1402.757656	701.882466	13
16	2009.044597	1005.025937	1992.018048	996.512662	<b>1991.034032</b>	996.020654	S	<b>1307.684157</b>	654.345717	1290.657608	645.832442	1289.673592	645.340434	12
17	2080.081711	1040.544493	2063.055162	1032.031219	2062.071146	1031.539211	A	<b>1220.652129</b>	610.829703	1203.625580	602.316428	1202.641564	601.824420	11
18	2167.113739	1084.060507	2150.087190	1075.547233	2149.103174	1075.055225	S	<b>1149.615015</b>	575.311146	1132.588466	566.797871	<b>1131.604450</b>	566.305863	10
19	2254.145767	1127.576521	2237.119218	1119.063247	2236.135202	<b>1118.571239</b>	S	<b>1062.582987</b>	531.795132	1045.556438	523.281857	1044.572422	522.789849	9
20	2353.214181	1177.110728	2336.187632	1168.597454	2335.203616	1168.105446	V	<b>975.550959</b>	488.279118	958.524410	479.765843	957.540394	479.273835	8
21	2516.277510	1258.642393	2499.250961	1250.129118	2498.266945	1249.637110	Y	<b>876.482545</b>	438.744911	859.455996	430.231636	858.471980	429.739628	7
22	2630.320437	<b>1315.663856</b>	2613.293888	1307.150582	2612.309872	1306.658574	N	<b>713.419216</b>	357.213246	696.392667	348.699972	695.408651	348.207964	6
23	<b>2743.404501</b>	<b>1372.205888</b>	2726.377952	1363.692614	2725.393936	1363.200606	L	599.376289	300.191783	582.349740	291.678508	581.365724	291.186500	5
24	2856.488565	1428.747921	2839.462016	1420.234646	2838.478000	1419.742638	L	<b>486.292225</b>	243.649751	469.265676	235.136476	468.281660	234.644468	4
25	2953.541329	1477.274303	2936.514780	1468.761028	2935.530764	1468.269020	P	<b>373.208161</b>	187.107719	356.181612	178.594444	355.197596	178.102436	3
26	3082.583922	1541.795599	3065.557373	1533.282325	3064.573357	1532.790317	E	<b>276.155397</b>	138.581337	259.128848	130.068062	<b>258.144832</b>	129.576054	2
27							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **AVDQSVLLMKPDAELSASSVYNLLPEK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
70.4	3227.682129	0.000167	<a href="#">AVDQSVLLMKPDAELSASSVYNLLPEK</a>
1.5	3227.668900	0.013396	<a href="#">SQGRGKYDFYIQLGLAMSSSIFIGGSFILK</a>
0.0	3227.669128	0.013168	<a href="#">QDSSPHLTSQRPVDMVQLLK</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **KATEDEGSEQK**

Found in **ANT3\_HUMAN**, Antithrombin-III OS=Homo sapiens GN=SERPINC1 PE=1 SV=1

Match to Query 28106: 1531.716432 from(511.579420,3+) rtinseconds(1096) index(14060)

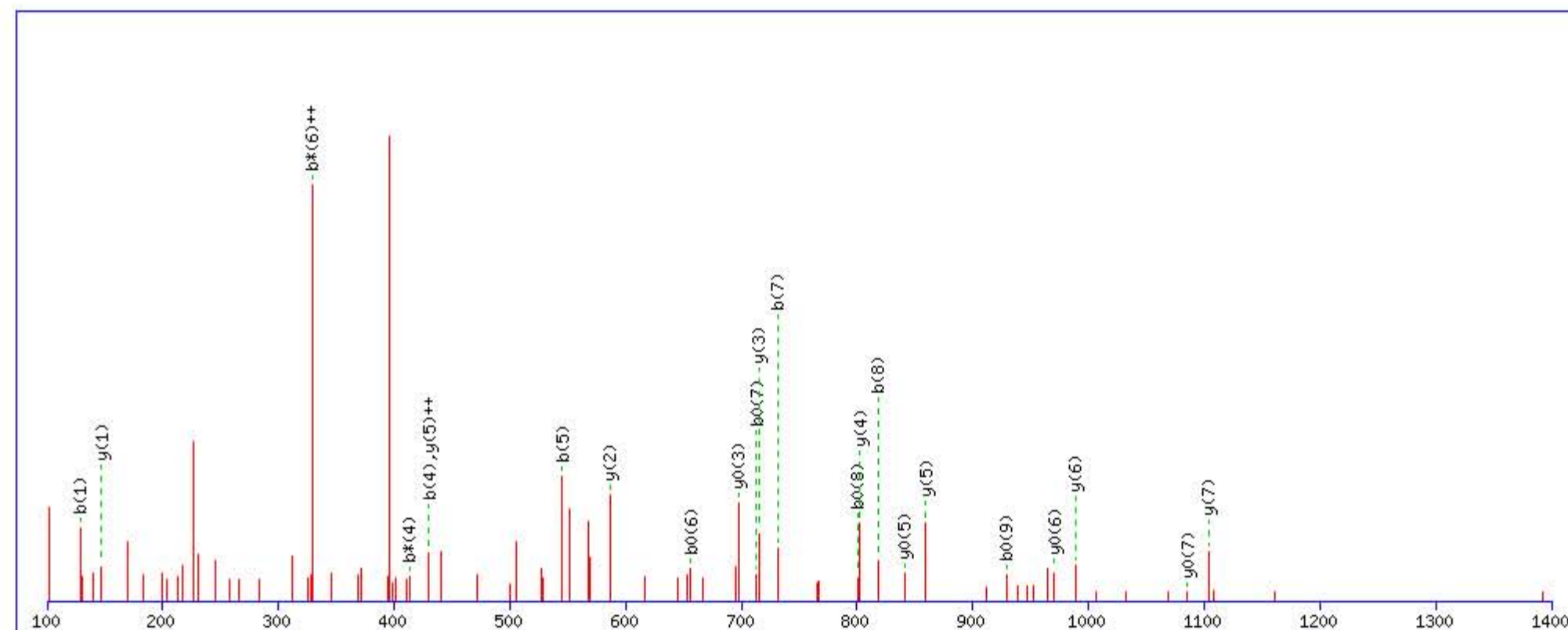
Title: Locus:1.1.1.2945.3 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1531.718796

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

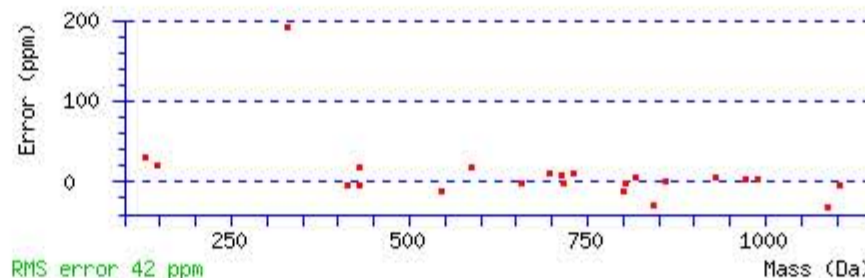
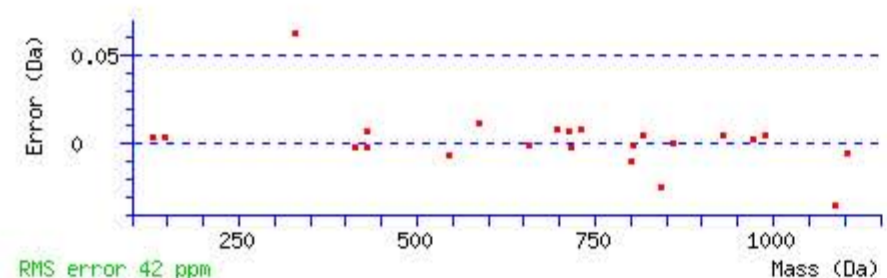
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.0022

Matches : 23/112 fragment ions using 44 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>129.102239</b>	65.054757	112.075690	56.541483			<b>K</b>							<b>11</b>
2	200.139353	100.573315	183.112804	92.060040			<b>A</b>	1404.631137	702.819207	1387.604588	694.305932	1386.620572	693.813924	<b>10</b>
3	301.187032	151.097154	284.160483	142.583879	283.176467	142.091872	<b>T</b>	1333.594023	667.300650	1316.567474	658.787375	1315.583458	658.295367	<b>9</b>
4	<b>430.229625</b>	215.618450	<b>413.203076</b>	207.105176	412.219060	206.613168	<b>E</b>	1232.546344	616.776810	1215.519795	608.263536	1214.535779	607.771528	<b>8</b>
5	<b>545.256568</b>	273.131922	528.230019	264.618648	527.246003	264.126640	<b>D</b>	<b>1103.503751</b>	552.255514	1086.477202	543.742239	<b>1085.493186</b>	543.250231	<b>7</b>
6	674.299161	337.653219	657.272612	<b>329.139944</b>	<b>656.288596</b>	328.647936	<b>E</b>	<b>988.476808</b>	494.742042	971.450259	486.228768	<b>970.466243</b>	485.736760	<b>6</b>
7	<b>731.320625</b>	366.163951	714.294076	357.650676	<b>713.310060</b>	357.158668	<b>G</b>	<b>859.434215</b>	<b>430.220746</b>	842.407666	421.707471	<b>841.423650</b>	421.215463	<b>5</b>
8	<b>818.352653</b>	409.679965	801.326104	401.166690	<b>800.342088</b>	400.674682	<b>S</b>	<b>802.412751</b>	401.710014	785.386202	393.196739	784.402186	392.704731	<b>4</b>
9	947.395246	474.201261	930.368697	465.687987	<b>929.384681</b>	465.195979	<b>E</b>	<b>715.380723</b>	358.194000	698.354174	349.680725	<b>697.370158</b>	349.188717	<b>3</b>
10	1386.620572	693.813924	1369.594023	685.300650	1368.610007	684.808642	<b>Q</b>	<b>586.338130</b>	293.672703	569.311581	285.159429			<b>2</b>
11							<b>K</b>	<b>147.112804</b>	74.060040	130.086255	65.546765			<b>1</b>



NCBI BLAST search of [KATEDEGSEQK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
32.0	1531.718796	-0.002364	<a href="#">KATEDEGSEQK</a>
3.6	1531.715454	0.000978	<a href="#">EWNGVVSESDSPVK</a>
2.5	1531.716309	0.000123	<a href="#">QVDSMWAEQK</a>



# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **TSDQIHFFFAK**

Found in **ANT3\_HUMAN**, Antithrombin-III OS=Homo sapiens GN=SERPINC1 PE=1 SV=1

Match to Query 32717: 1650.828132 from(551.283320,3+) rtinseconds(2352) index(20990)

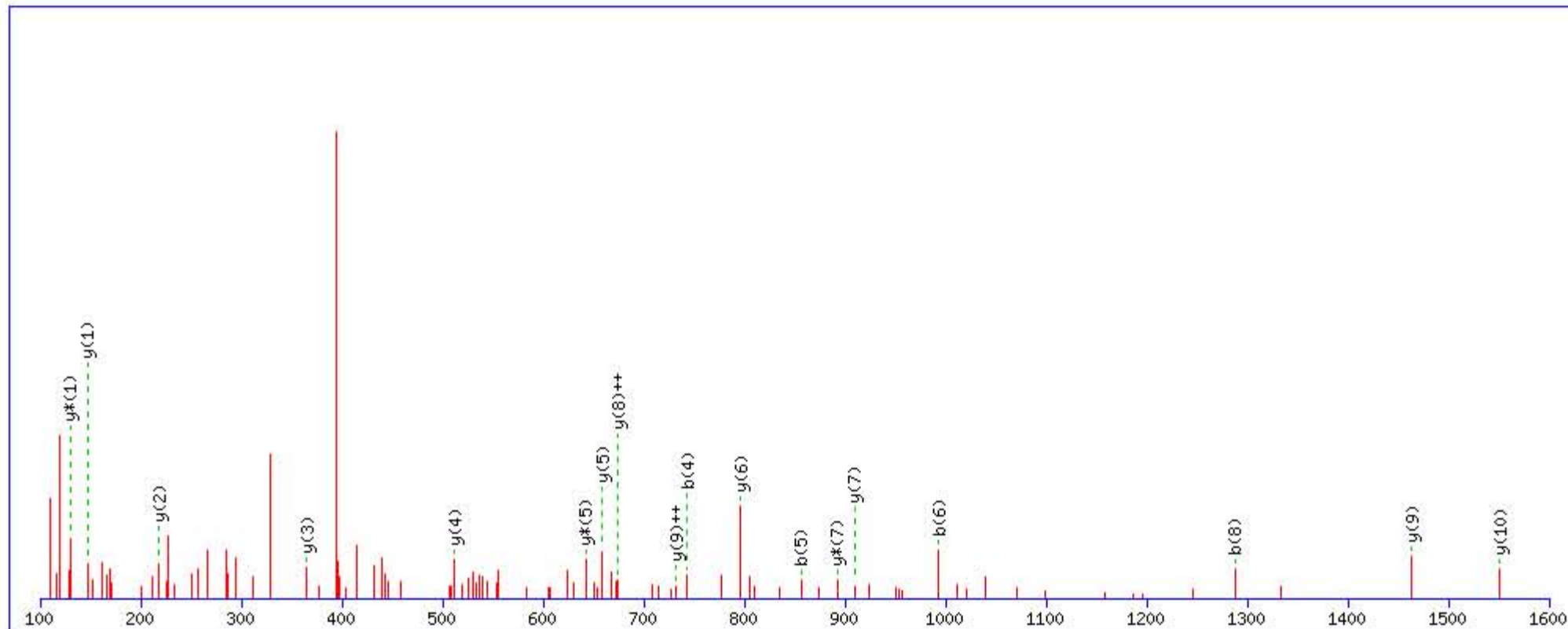
Title: Locus:1.1.1.3385.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1650.822845

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

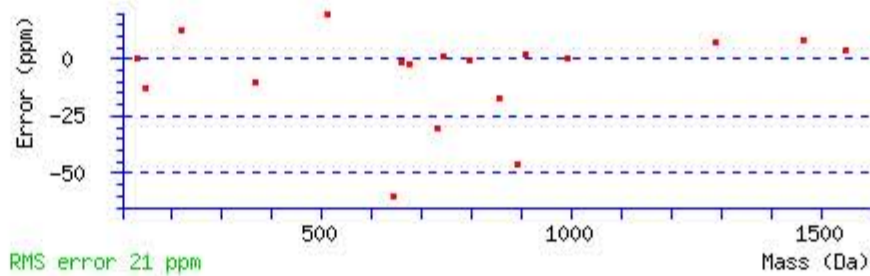
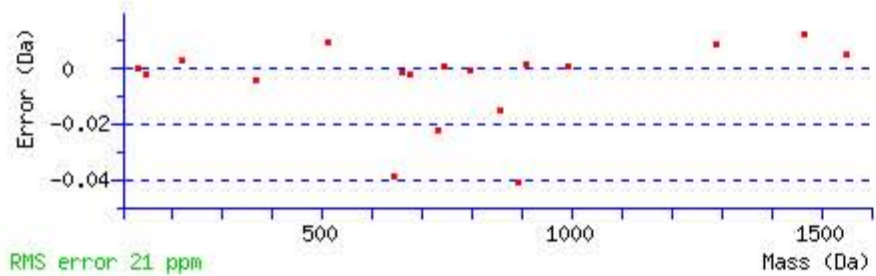
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 29 Expect: 0.029

Matches : 18/98 fragment ions using 58 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							11
2	189.086983	95.047129			171.076418	86.041847	S	1550.782433	775.894855	1533.755884	767.381580	1532.771868	766.889572	10
3	304.113926	152.560601			286.103361	143.555319	D	1463.750405	732.378841	1446.723856	723.865566	1445.739840	723.373558	9
4	743.339252	372.173264	726.312703	363.659989	725.328687	363.167982	Q	1348.723462	674.865369	1331.696913	666.352095			8
5	856.423316	428.715296	839.396767	420.202022	838.412751	419.710014	I	909.498136	455.252706	892.471587	446.739432			7
6	993.482228	497.244752	976.455679	488.731477	975.471663	488.239469	H	796.414072	398.710674	779.387523	390.197400			6
7	1140.550642	570.778959	1123.524093	562.265685	1122.540077	561.773676	F	659.355160	330.181218	642.328611	321.667944			5
8	1287.619056	644.313166	1270.592507	635.799892	1269.608491	635.307884	F	512.286746	256.647011	495.260197	248.133737			4
9	1434.687470	717.847373	1417.660921	709.334099	1416.676905	708.842091	F	365.218332	183.112804	348.191783	174.599530			3
10	1505.724584	753.365930	1488.698035	744.852656	1487.714019	744.360648	A	218.149918	109.578597	201.123369	101.065322			2
11							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [TSDQIHFFFAK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
29.3	1650.822845	0.005287	<a href="#">TSDQIHFFFAK</a>

# MATRIX SCIENCE Mascot Search Results

## Peptide View

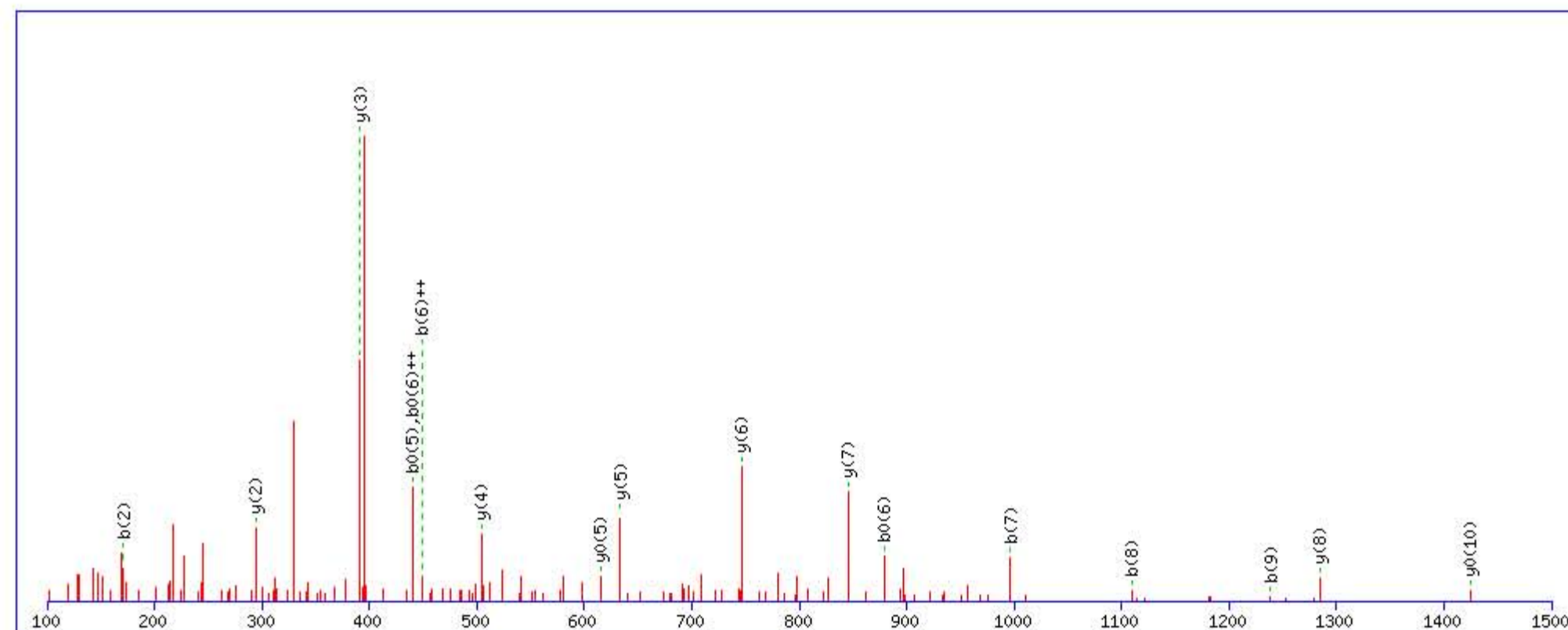
MS/MS Fragmentation of **VAEGTQVLELPFK**  
 Found in **ANT3\_HUMAN**, Antithrombin-III OS=Homo sapiens GN=SERPINC1 PE=1 SV=1

Match to Query 34393: 1740.945672 from(581.322500,3+) rtinseconds(2557) index(34934)  
 Title: Locus:1.1.1.3554.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

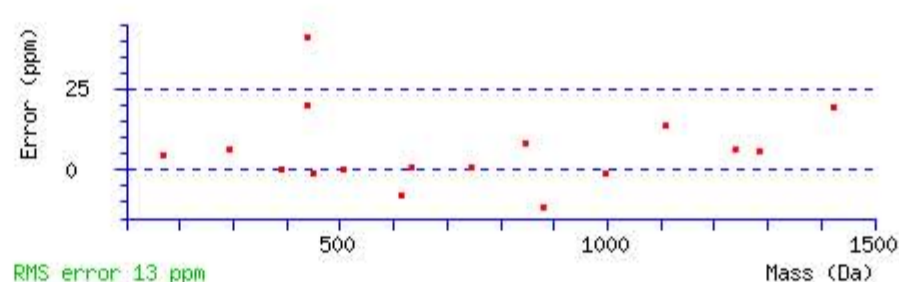
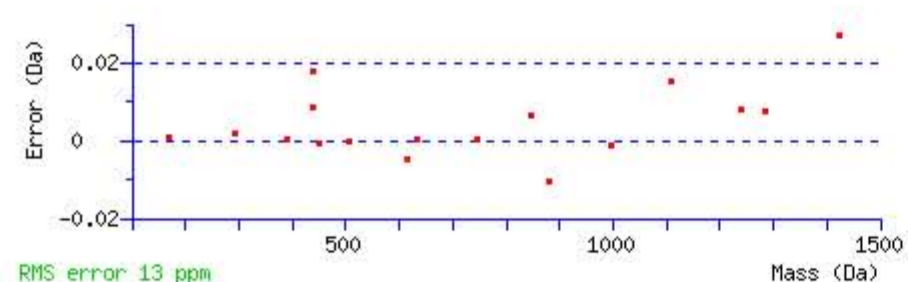
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1740.948425  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q6 : Biotin:Thermo-21345 (Q)  
 Ions Score: 41 Expect: 0.0015  
 Matches : 17/122 fragment ions using 24 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							13
2	<b>171.112804</b>	86.060040					A	1642.887293	821.947284	1625.860744	813.434010	1624.876728	812.942002	12
3	300.155397	150.581336			282.144832	141.576054	E	1571.850179	786.428727	1554.823630	777.915453	1553.839614	777.423445	11
4	357.176861	179.092068			339.166296	170.086786	G	1442.807586	721.907431	1425.781037	713.394157	<b>1424.797021</b>	712.902148	10
5	458.224540	229.615908			<b>440.213975</b>	220.610626	T	1385.786122	693.396699	1368.759573	684.883424	1367.775557	684.391416	9
6	897.449866	<b>449.228571</b>	880.423317	440.715297	<b>879.439301</b>	<b>440.223289</b>	Q	<b>1284.738443</b>	642.872860	1267.711894	634.359585	1266.727878	633.867577	8
7	<b>996.518280</b>	498.762778	979.491731	490.249504	978.507715	489.757496	V	<b>845.513117</b>	423.260196	828.486568	414.746922	827.502552	414.254914	7
8	<b>1109.602344</b>	555.304810	1092.575795	546.791536	1091.591779	546.299527	L	<b>746.444703</b>	373.725989	729.418154	365.212715	728.434138	364.720707	6
9	<b>1238.644937</b>	619.826106	1221.618388	611.312832	1220.634372	610.820824	E	<b>633.360639</b>	317.183958	616.334090	308.670683	<b>615.350074</b>	308.178675	5
10	1351.729001	676.368138	1334.702452	667.854864	1333.718436	667.362856	L	<b>504.318046</b>	252.662661	487.291497	244.149386			4
11	1448.781765	724.894520	1431.755216	716.381246	1430.771200	715.889238	P	<b>391.233982</b>	196.120629	374.207433	187.607355			3
12	1595.850179	798.428727	1578.823630	789.915453	1577.839614	789.423445	F	<b>294.181218</b>	147.594247	277.154669	139.080973			2
13							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VAEGTQVLELPFK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
41.3	1740.948425	-0.002753	<a href="#">VAEGTQVLELPFK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **FATTFYQHLADSK**

Found in **ANT3\_HUMAN**, Antithrombin-III OS=Homo sapiens GN=SERPINC1 PE=1 SV=1

Match to Query 36427: 1838.906022 from(613.975950,3+) rtinseconds(2100) index(19609)

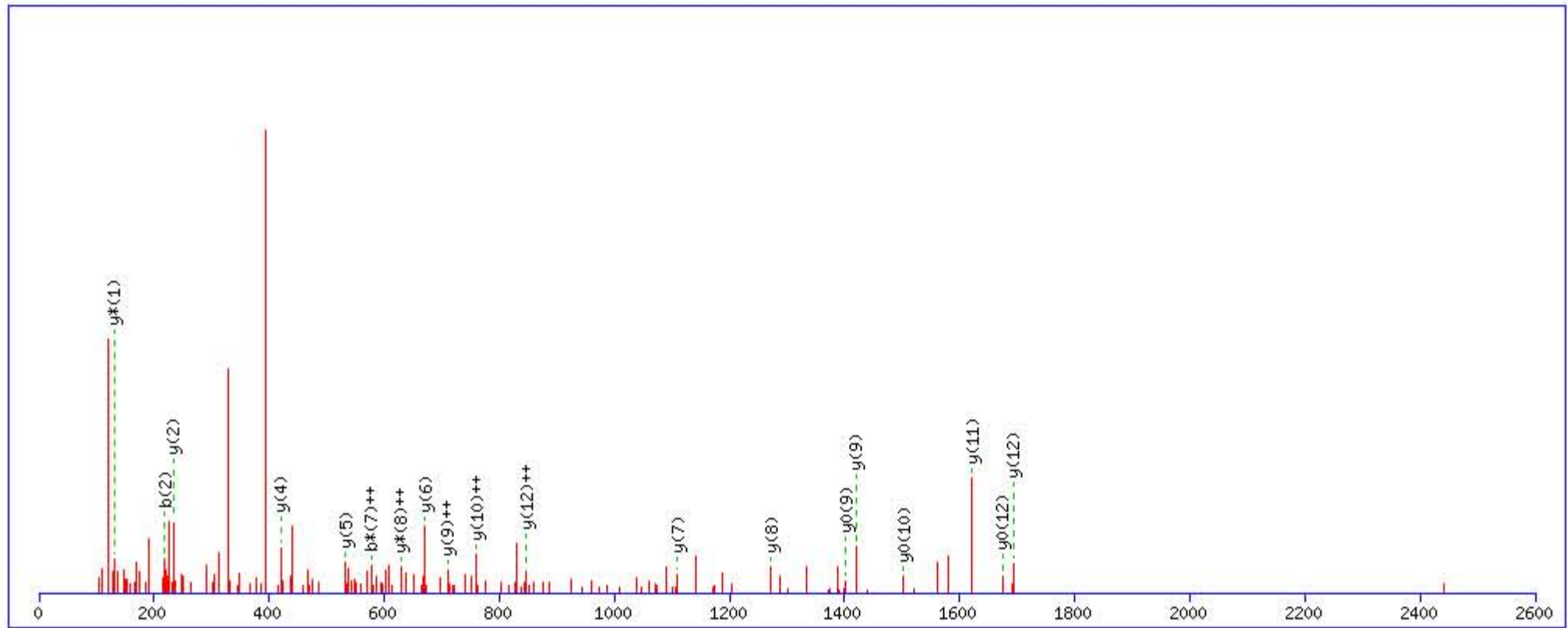
Title: Locus:1.1.1.3297.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1838.902542

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

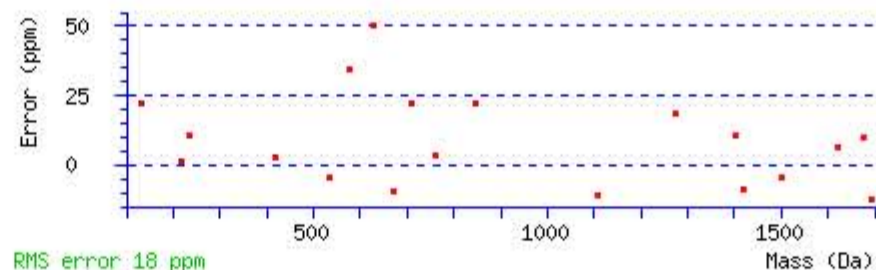
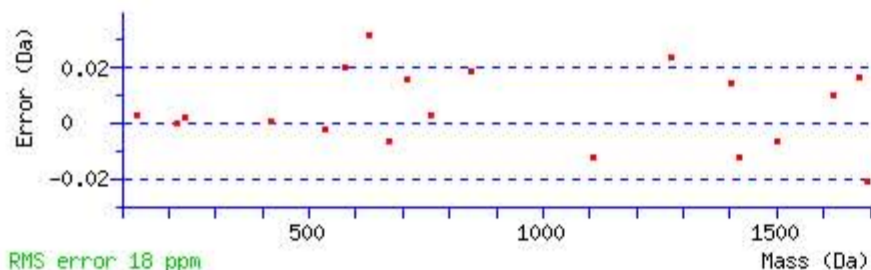
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.014

Matches : 19/126 fragment ions using 48 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							13
2	<b>219.112804</b>	110.060040					A	<b>1692.841406</b>	<b>846.924341</b>	1675.814857	838.411067	<b>1674.830841</b>	837.919059	12
3	320.160483	160.583879			302.149918	151.578597	T	<b>1621.804292</b>	811.405784	1604.777743	802.892510	1603.793727	802.400502	11
4	421.208162	211.107719			403.197597	202.102437	T	1520.756613	<b>760.881945</b>	1503.730064	752.368670	<b>1502.746048</b>	751.876662	10
5	568.276576	284.641926			550.266011	275.636644	F	<b>1419.708934</b>	<b>710.358105</b>	1402.682385	701.844831	<b>1401.698369</b>	701.352823	9
6	731.339905	366.173591			713.329340	357.168308	Y	<b>1272.640520</b>	636.823898	1255.613971	<b>628.310624</b>	1254.629955	627.818616	8
7	1170.565231	585.786254	1153.538682	<b>577.272979</b>	1152.554666	576.780971	Q	<b>1109.577191</b>	555.292234	1092.550642	546.778959	1091.566626	546.286951	7
8	1307.624143	654.315710	1290.597594	645.802435	1289.613578	645.310427	H	<b>670.351865</b>	335.679571	653.325316	327.166296	652.341300	326.674288	6
9	1420.708207	710.857741	1403.681658	702.344467	1402.697642	701.852459	L	<b>533.292953</b>	267.150115	516.266404	258.636840	515.282388	258.144832	5
10	1491.745321	746.376298	1474.718772	737.863024	1473.734756	737.371016	A	<b>420.208889</b>	210.608083	403.182340	202.094808	402.198324	201.602800	4
11	1606.772264	803.889770	1589.745715	795.376496	1588.761699	794.884487	D	349.171775	175.089526	332.145226	166.576251	331.161210	166.084243	3
12	1693.804292	847.405784	1676.777743	838.892510	1675.793727	838.400502	S	<b>234.144832</b>	117.576054	217.118283	109.062780	216.134267	108.570772	2
13							K	147.112804	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **FATTFYQHLADSK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
32.0	1838.902542	0.003480	<a href="#">FATTFYQHLADSK</a>

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

**MATRIX SCIENCE Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **LQPLDFKENAEQSR**

Found in **ANT3\_HUMAN**, Antithrombin-III OS=Homo sapiens GN=SERPINC1 PE=1 SV=1

Match to Query 39045: 1985.000862 from(662.674230,3+) rtinseconds(1925) index(18535)

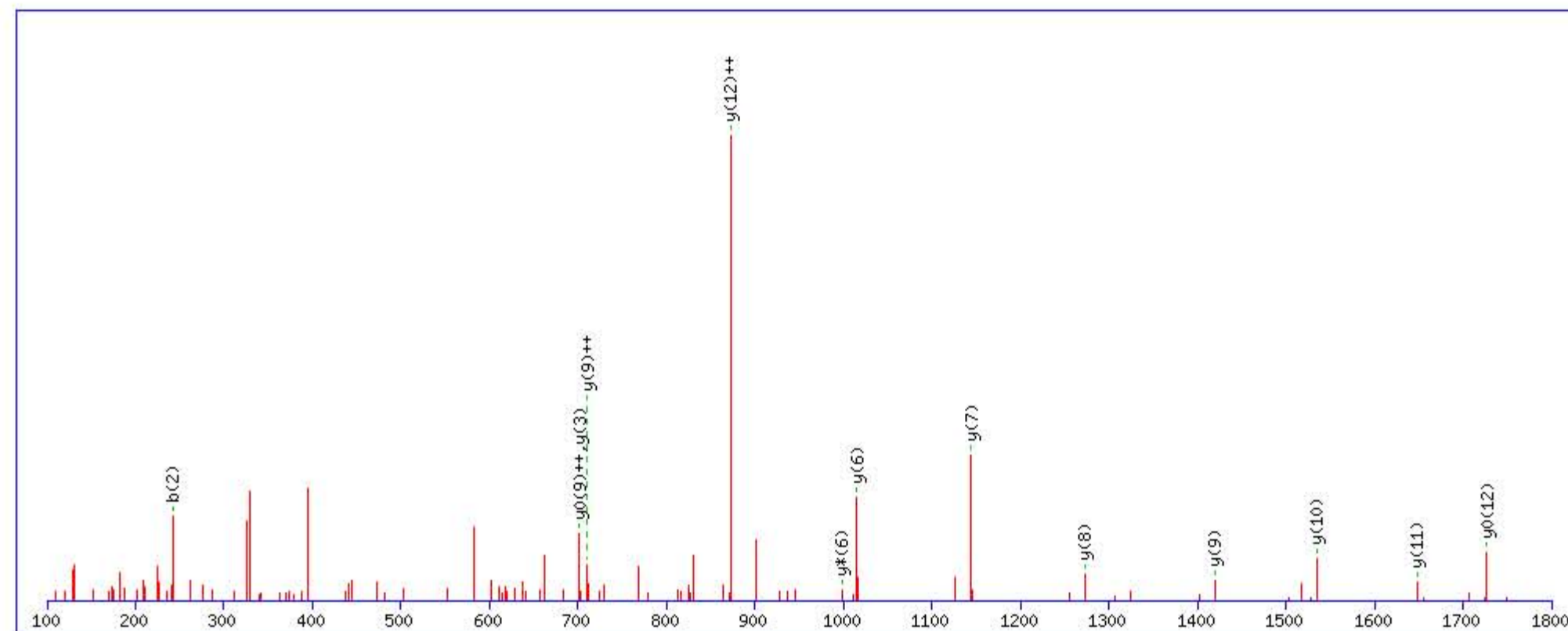
Title: Locus:1.1.1.3236.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 100 to 1800 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1985.004013

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

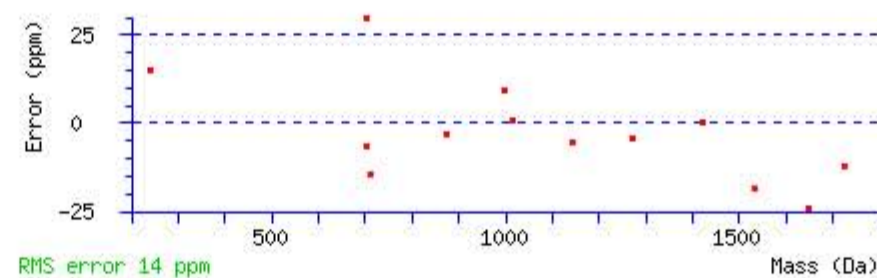
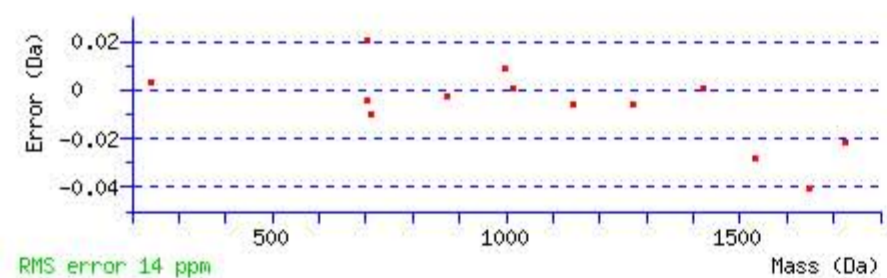
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 44 Expect: 0.00099

Matches : 13/144 fragment ions using 17 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							14
2	242.149918	121.578597	225.123369	113.065323			Q	1872.927259	936.967268	1855.900710	928.453993	1854.916694	927.961985	13
3	339.202682	170.104979	322.176133	161.591705			P	1744.868681	872.937979	1727.842132	864.424704	1726.858116	863.932696	12
4	452.286746	226.647011	435.260197	218.133737			L	1647.815917	824.411597	1630.789368	815.898322	1629.805352	815.406314	11
5	567.313689	284.160483	550.287140	275.647208	549.303124	275.155200	D	1534.731853	767.869565	1517.705304	759.356290	1516.721288	758.864282	10
6	714.382103	357.694690	697.355554	349.181415	696.371538	348.689407	F	1419.704910	710.356093	1402.678361	701.842819	1401.694345	701.350811	9
7	842.477066	421.742171	825.450517	413.228897	824.466501	412.736889	K	1272.636496	636.821886	1255.609947	628.308612	1254.625931	627.816604	8
8	971.519659	486.263468	954.493110	477.750193	953.509094	477.258185	E	1144.541533	572.774405	1127.514984	564.261130	1126.530968	563.769122	7
9	1085.562586	543.284931	1068.536037	534.771657	1067.552021	534.279649	N	1015.498940	508.253108	998.472391	499.739834	997.488375	499.247826	6
10	1156.599700	578.803488	1139.573151	570.290214	1138.589135	569.798205	A	901.456013	451.231645	884.429464	442.718370	883.445448	442.226362	5
11	1285.642293	643.324785	1268.615744	634.811510	1267.631728	634.319502	E	830.418899	415.713088	813.392350	407.199813	812.408334	406.707805	4
12	1724.867619	862.937448	1707.841070	854.424173	1706.857054	853.932165	Q	701.376306	351.191791	684.349757	342.678517	683.365741	342.186509	3
13	1811.899647	906.453462	1794.873098	897.940187	1793.889082	897.448179	S	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	2
14							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [LQPLDFKENAEQSR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
44.2	1985.004013	-0.003151	<a href="#">LQPLDFKENAEQSR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **LFLEPTQADIALLK**

Found in **APOA\_HUMAN**, Apolipoprotein(a) OS=Homo sapiens GN=LPA PE=1 SV=1

Match to Query 37211: 1882.065168 from(942.039860,2+) rtinseconds(2781) index(36509)

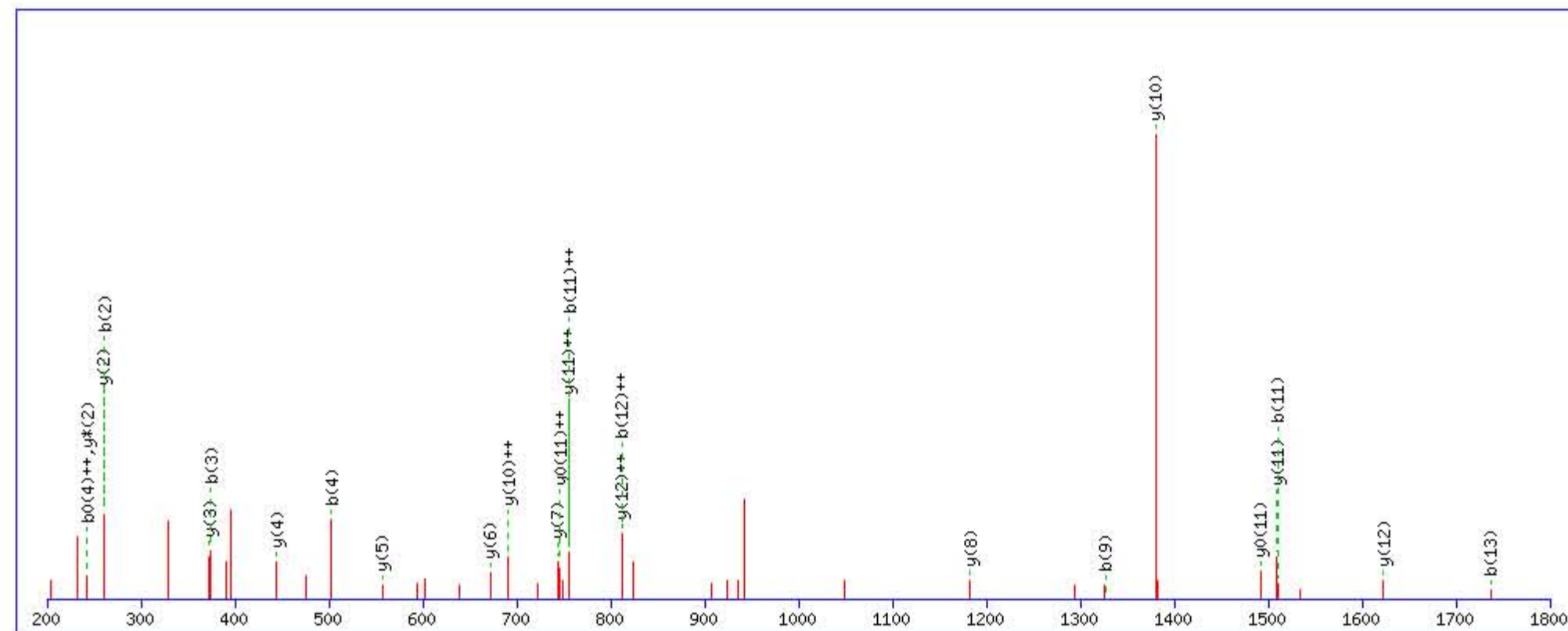
Title: Locus:1.1.1.3630.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1882.063766

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

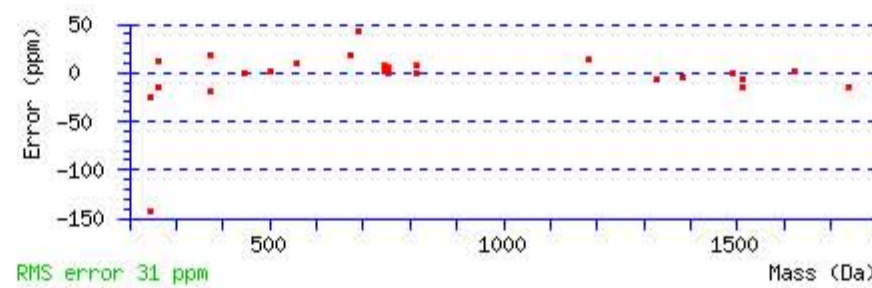
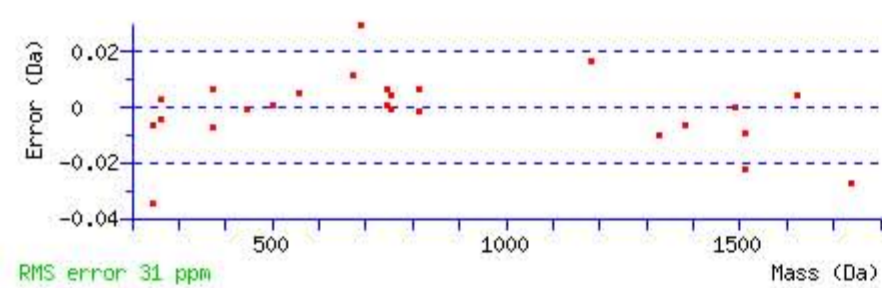
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 62 Expect: 7.4e-006

Matches : 25/128 fragment ions using 44 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					<b>L</b>							<b>14</b>
2	<b>261.159754</b>	131.083515					<b>F</b>	1769.987007	885.497142	1752.960458	876.983867	1751.976442	876.491859	<b>13</b>
3	<b>374.243818</b>	187.625547					<b>L</b>	<b>1622.918593</b>	<b>811.962934</b>	1605.892044	803.449660	1604.908028	802.957652	<b>12</b>
4	<b>503.286411</b>	252.146843			485.275846	<b>243.141561</b>	<b>E</b>	<b>1509.834529</b>	<b>755.420903</b>	1492.807980	746.907628	<b>1491.823964</b>	<b>746.415620</b>	<b>11</b>
5	600.339175	300.673226			582.328610	291.667943	<b>P</b>	<b>1380.791936</b>	<b>690.899606</b>	1363.765387	682.386331	1362.781371	681.894323	<b>10</b>
6	701.386854	351.197065			683.376289	342.191783	<b>T</b>	1283.739172	642.373224	1266.712623	633.859949	1265.728607	633.367941	<b>9</b>
7	1140.612180	570.809728	1123.585631	562.296454	1122.601615	561.804446	<b>Q</b>	<b>1182.691493</b>	591.849384	1165.664944	583.336110	1164.680928	582.844102	<b>8</b>
8	1211.649294	606.328285	1194.622745	597.815011	1193.638729	597.323003	<b>A</b>	<b>743.466167</b>	372.236721	726.439618	363.723447	725.455602	363.231439	<b>7</b>
9	<b>1326.676237</b>	663.841757	1309.649688	655.328482	1308.665672	654.836474	<b>D</b>	<b>672.429053</b>	336.718164	655.402504	328.204890	654.418488	327.712882	<b>6</b>
10	1439.760301	720.383789	1422.733752	711.870514	1421.749736	711.378506	<b>I</b>	<b>557.402110</b>	279.204693	540.375561	270.691418			<b>5</b>
11	<b>1510.797415</b>	<b>755.902346</b>	1493.770866	747.389071	1492.786850	746.897063	<b>A</b>	<b>444.318046</b>	222.662661	427.291497	214.149386			<b>4</b>
12	1623.881479	<b>812.444377</b>	1606.854930	803.931103	1605.870914	803.439095	<b>L</b>	<b>373.280932</b>	187.144104	356.254383	178.630829			<b>3</b>
13	<b>1736.965543</b>	868.986409	1719.938994	860.473135	1718.954978	859.981127	<b>L</b>	<b>260.196868</b>	130.602072	<b>243.170319</b>	122.088797			<b>2</b>
14							<b>K</b>	147.112804	74.060040	130.086255	65.546765			<b>1</b>



NCBI BLAST search of **LFLEPTQADIALLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
61.5	1882.063766	0.001402	<a href="#">LFLEPTQADIALLK</a>
6.4	1882.077469	-0.012301	<a href="#">NLQEVLGEEKLKEILK</a>
5.8	1882.041122	0.024046	<a href="#">LLIIDSNLGVQDVENLK</a>
1.6	1882.046021	0.019147	<a href="#">FLLLPDMMIKGLFGKK</a>
1.2	1882.053238	0.011930	<a href="#">NQMITRVPLGSVIK</a>
0.8	1882.045792	0.019376	<a href="#">EAIQSNKRLSALNK</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **AELQEGAR**

Found in **APOA1\_HUMAN**, Apolipoprotein A-I OS=Homo sapiens GN=APOA1 PE=1 SV=1

Match to Query 17361: 1183.598648 from(592.806600,2+) rtinseconds(1514) index(15939)

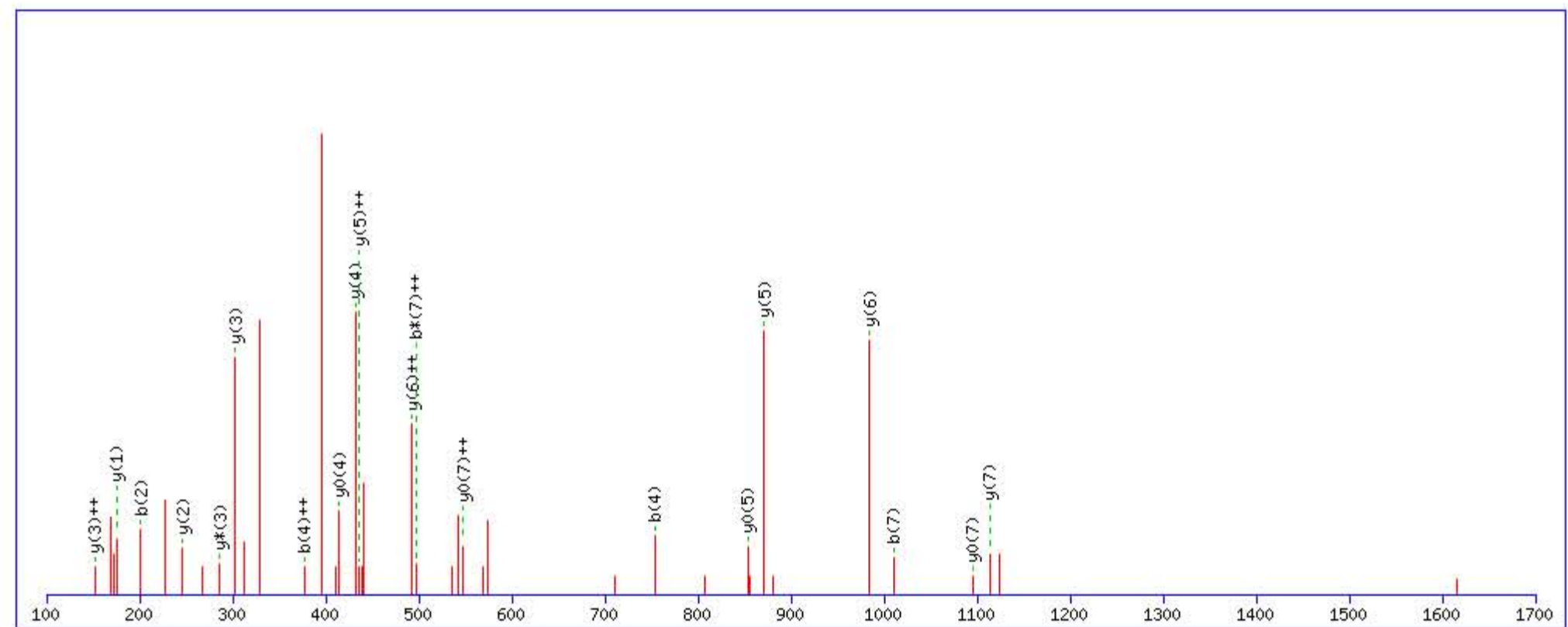
Title: Locus:1.1.1.3093.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1183.601913

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

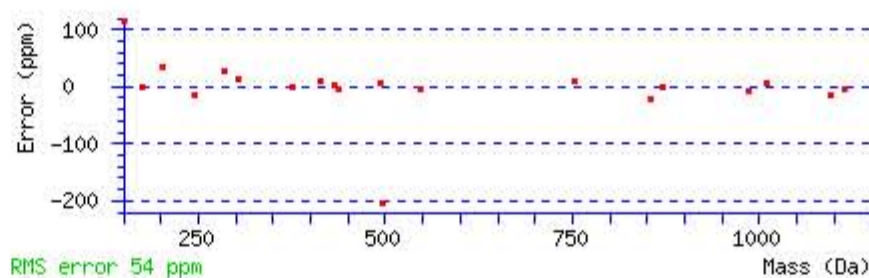
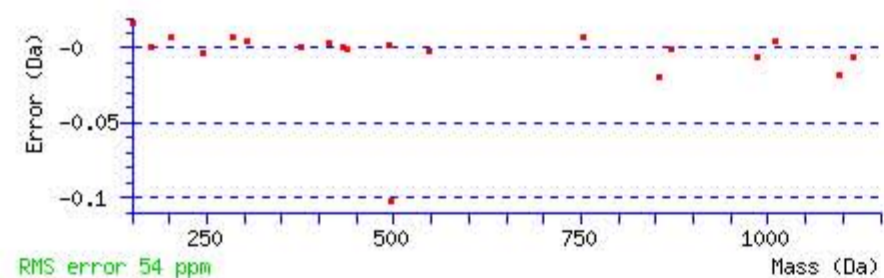
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 41 Expect: 0.0014

Matches : 20/70 fragment ions using 38 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							8
2	<b>201.086983</b>	101.047130			183.076418	92.041847	E	<b>1113.572106</b>	557.289691	1096.545557	548.776417	<b>1095.561541</b>	<b>548.284409</b>	7
3	314.171047	157.589161			296.160482	148.583879	L	<b>984.529513</b>	<b>492.768395</b>	967.502964	484.255120	966.518948	483.763112	6
4	<b>753.396373</b>	<b>377.201825</b>	736.369824	368.688550	735.385808	368.196542	Q	<b>871.445449</b>	<b>436.226363</b>	854.418900	427.713088	<b>853.434884</b>	427.221080	5
5	882.438966	441.723121	865.412417	433.209847	864.428401	432.717839	E	<b>432.220123</b>	216.613699	415.193574	208.100425	<b>414.209558</b>	207.608417	4
6	939.460430	470.233853	922.433881	461.720579	921.449865	461.228571	G	<b>303.177530</b>	<b>152.092403</b>	<b>286.150981</b>	143.579128			3
7	<b>1010.497544</b>	505.752410	993.470995	<b>497.239136</b>	992.486979	496.747128	A	<b>246.156066</b>	123.581671	229.129517	115.068396			2
8							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **AELQEGAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
40.7	1183.601913	-0.003265	<a href="#">AELQEGAR</a>
10.2	1183.601913	-0.003265	<a href="#">EALQQR</a>
9.4	1183.601913	-0.003265	<a href="#">QLAEQER</a>
5.7	1183.613815	-0.015167	<a href="#">FHFEALPPAR</a>
4.4	1183.587997	0.010651	<a href="#">EAKLDHCRR</a>
3.7	1183.605743	-0.007095	<a href="#">APSERRSPER</a>
3.6	1183.601913	-0.003265	<a href="#">AQEQELR</a>
3.6	1183.583282	0.015366	<a href="#">EAASSPAGEPLR</a>
3.3	1183.601913	-0.003265	<a href="#">ELQAEAGR</a>
3.1	1183.607132	-0.008484	<a href="#">GGFRGGRGGAHR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **QGLLPVLESFK**

Found in **APOA1\_HUMAN**, Apolipoprotein A-I OS=Homo sapiens GN=APOA1 PE=1 SV=1

Match to Query 28320: 1540.867008 from(771.440780,2+) rtinseconds(2836) index(36948)

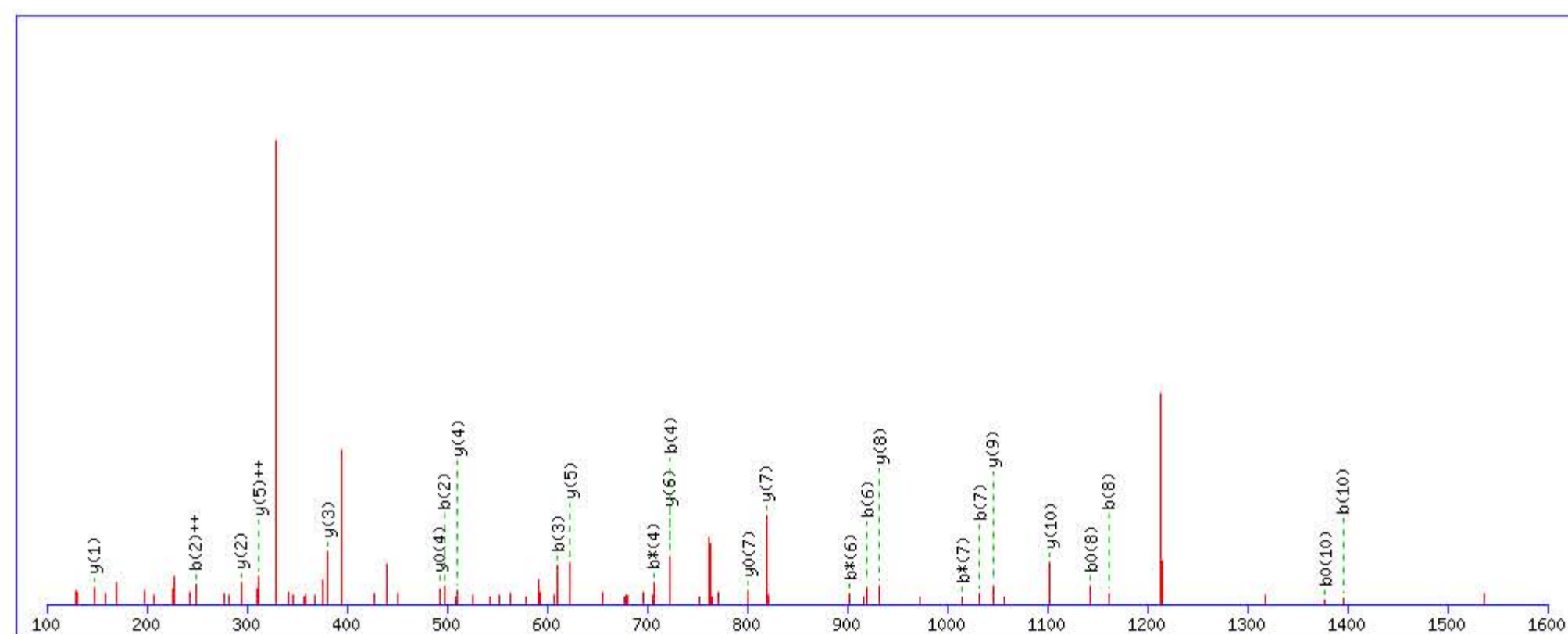
Title: Locus:1.1.1.3649.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1540.868713

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

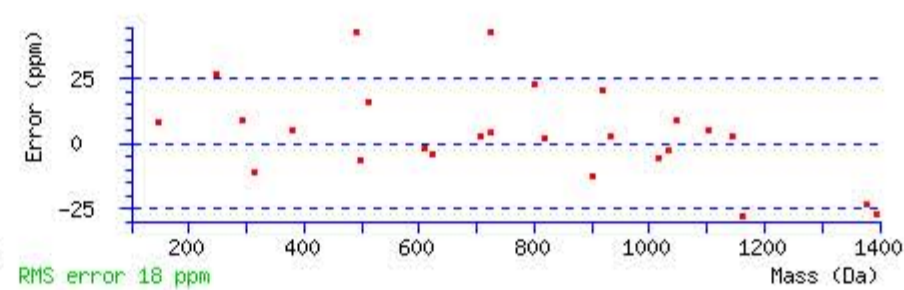
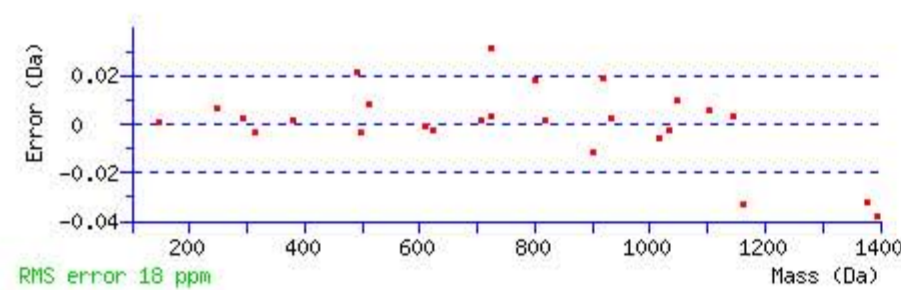
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 64 Expect: 3.4e-006

Matches : 26/102 fragment ions using 46 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							11
2	497.254066	249.130671	480.227517	240.617396			G	1102.650673	551.828975	1085.624124	543.315700	1084.640108	542.823692	10
3	610.338130	305.672703	593.311581	297.159428			L	1045.629209	523.318243	1028.602660	514.804968	1027.618644	514.312960	9
4	723.422194	362.214735	706.395645	353.701461			L	932.545145	466.776211	915.518596	458.262936	914.534580	457.770928	8
5	820.474958	410.741117	803.448409	402.227843			P	819.461081	410.234179	802.434532	401.720904	801.450516	401.228896	7
6	919.543372	460.275324	902.516823	451.762049			V	722.408317	361.707797	705.381768	353.194522	704.397752	352.702514	6
7	1032.627436	516.817356	1015.600887	508.304082			L	623.339903	312.173590	606.313354	303.660315	605.329338	303.168307	5
8	1161.670029	581.338653	1144.643480	572.825378	1143.659464	572.333370	E	510.255839	255.631558	493.229290	247.118283	492.245274	246.626275	4
9	1248.702057	624.854667	1231.675508	616.341392	1230.691492	615.849384	S	381.213246	191.110261	364.186697	182.596987	363.202681	182.104979	3
10	1395.770471	698.388874	1378.743922	689.875599	1377.759906	689.383591	F	294.181218	147.594247	277.154669	139.080973			2
11							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **QGLLPVLESFK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
63.6	1540.868713	-0.001705	<a href="#">QGLLPVLESFK</a>
4.9	1540.846054	0.020954	<a href="#">ISQDADLKTPTKPK</a>
3.3	1540.872559	-0.005551	<a href="#">ELSRVLHTNVVFK</a>
1.3	1540.872574	-0.005566	<a href="#">LPVGGQLGARFPTTK</a>
0.8	1540.858154	0.008854	<a href="#">QGEVRLKCLK</a>
0.3	1540.864700	0.002308	<a href="#">KVTVGKDDIQK</a>
0.3	1540.858139	0.008869	<a href="#">LTNLR LQNMK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VQPYLDDDFQK**

Found in **APOA1\_HUMAN**, Apolipoprotein A-I OS=Homo sapiens GN=APOA1 PE=1 SV=1

Match to Query 28902: 1562.776368 from(782.395460,2+) rtinseconds(2196) index(33006)

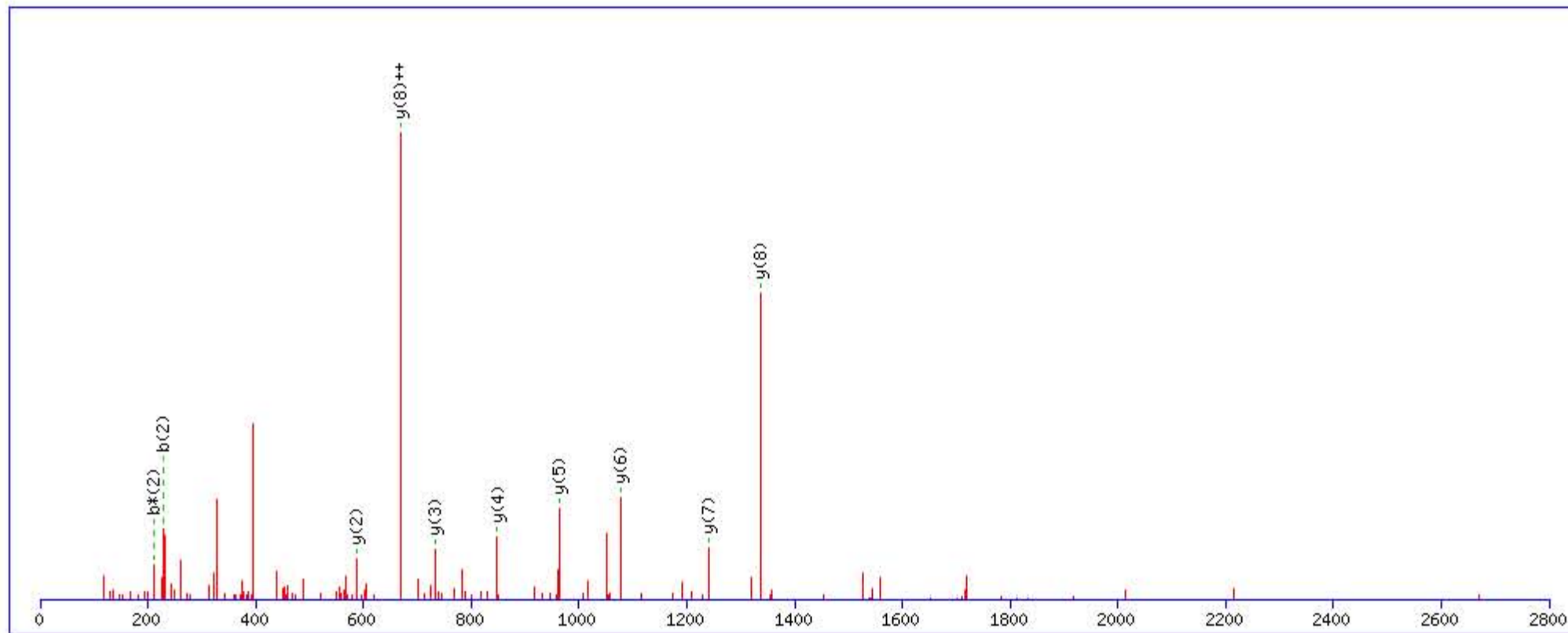
Title: Locus:1.1.1.3428.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1562.780304

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

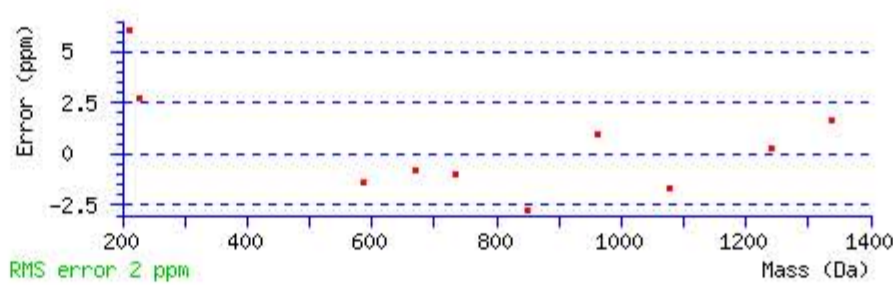
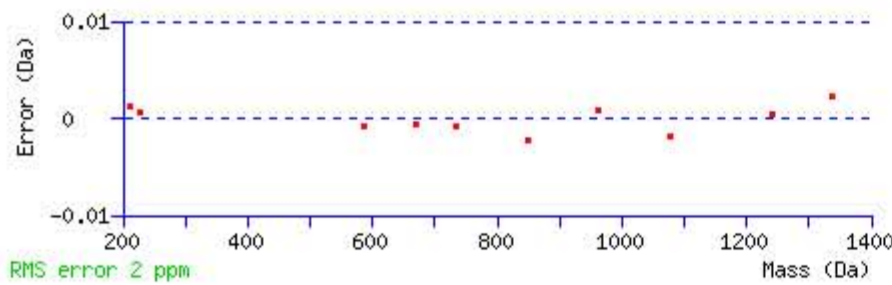
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 41 Expect: 0.00017

Matches : 10/90 fragment ions using 15 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							10
2	228.134268	114.570772	211.107719	106.057498			Q	1464.719165	732.863221	1447.692616	724.349946	1446.708600	723.857938	9
3	325.187032	163.097154	308.160483	154.583879			P	1336.660587	668.833932	1319.634038	660.320657	1318.650022	659.828649	8
4	488.250361	244.628818	471.223812	236.115544			Y	1239.607823	620.307550	1222.581274	611.794275	1221.597258	611.302267	7
5	601.334425	301.170851	584.307876	292.657576			L	1076.544494	538.775885	1059.517945	530.262611	1058.533929	529.770603	6
6	716.361368	358.684322	699.334819	350.171047	698.350803	349.679039	D	963.460430	482.233853	946.433881	473.720579	945.449865	473.228571	5
7	831.388311	416.197793	814.361762	407.684519	813.377746	407.192511	D	848.433487	424.720382	831.406938	416.207107	830.422922	415.715099	4
8	978.456725	489.732000	961.430176	481.218726	960.446160	480.726718	F	733.406544	367.206910	716.379995	358.693636			3
9	1417.682051	709.344664	1400.655502	700.831389	1399.671486	700.339381	Q	586.338130	293.672703	569.311581	285.159429			2
10							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VQPYLDDDFQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
40.9	1562.780304	-0.003936	<a href="#">VQPYLDDDFQK</a>
0.7	1562.787521	-0.011153	<a href="#">VQLVDNVYCIGQR</a>
0.1	1562.768860	0.007508	<a href="#">LNFGASLQQTAEER</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **DYVSQFEGSALGK**

Found in **APOA1\_HUMAN**, Apolipoprotein A-I OS=Homo sapiens GN=APOA1 PE=1 SV=1

Match to Query 33854: 1710.833488 from(856.424020,2+) rtinseconds(2406) index(34128)

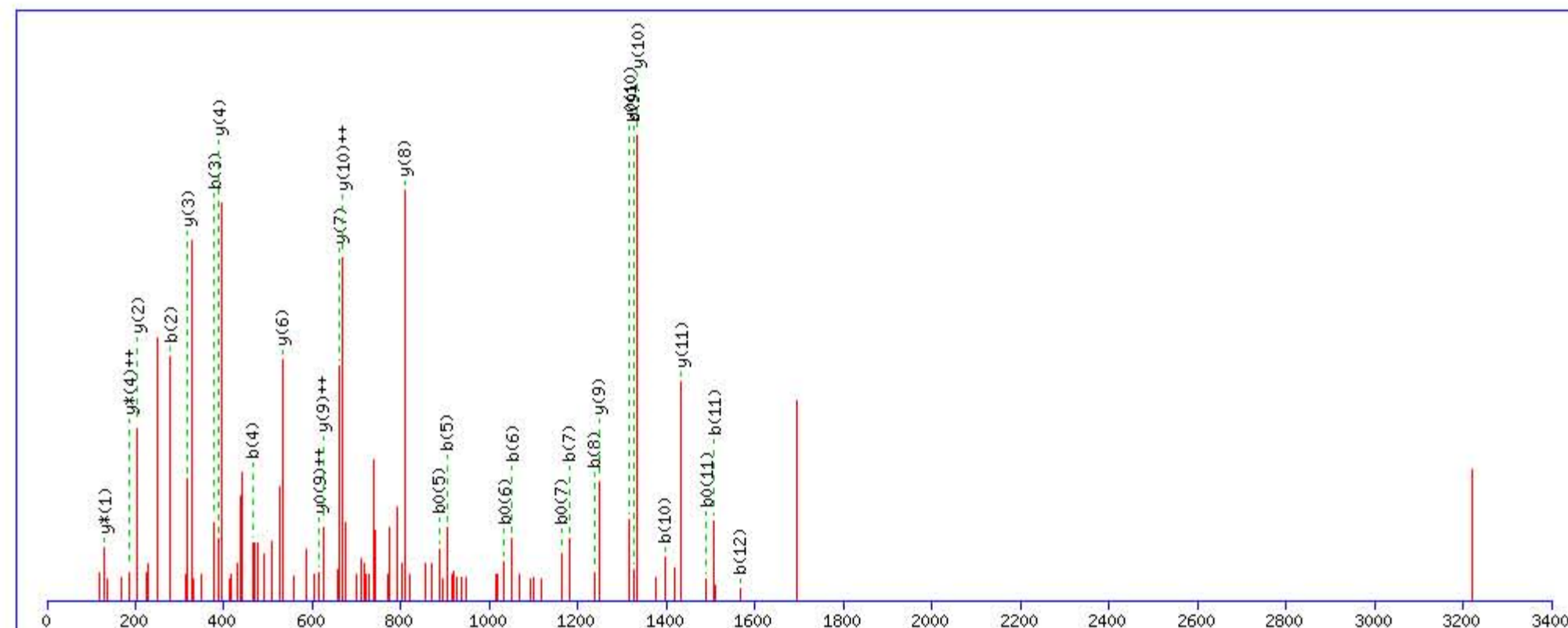
Title: Locus:1.1.1.3501.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1710.828705

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

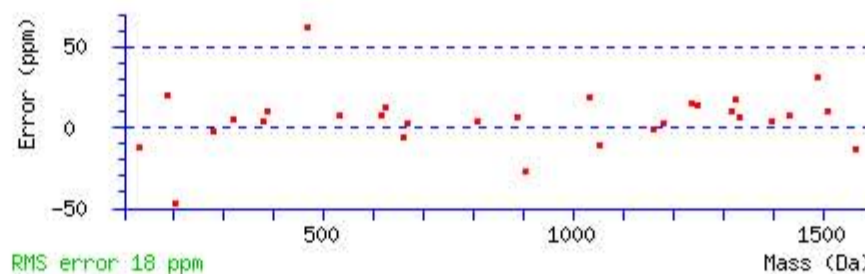
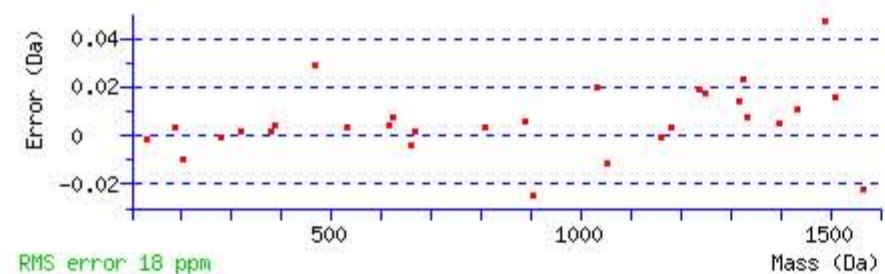
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 69 Expect: 5.5e-007

Matches : 30/128 fragment ions using 55 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							13
2	<b>279.097548</b>	140.052412			261.086983	131.047130	Y	1596.809042	798.908159	1579.782493	790.394884	1578.798477	789.902876	12
3	<b>378.165962</b>	189.586619			360.155397	180.581337	V	<b>1433.745713</b>	717.376495	1416.719164	708.863220	1415.735148	708.371212	11
4	<b>465.197990</b>	233.102633			447.187425	224.097351	S	<b>1334.677299</b>	<b>667.842288</b>	1317.650750	659.329013	<b>1316.666734</b>	658.837005	10
5	<b>904.423316</b>	452.715296	887.396767	444.202022	<b>886.412751</b>	443.710014	Q	<b>1247.645271</b>	<b>624.326273</b>	1230.618722	615.812999	1229.634706	<b>615.320991</b>	9
6	<b>1051.491730</b>	526.249503	1034.465181	517.736229	<b>1033.481165</b>	517.244221	F	<b>808.419945</b>	404.713610	791.393396	396.200336	790.409380	395.708328	8
7	<b>1180.534323</b>	590.770800	1163.507774	582.257525	<b>1162.523758</b>	581.765517	E	<b>661.351531</b>	331.179403	644.324982	322.666129	643.340966	322.174121	7
8	<b>1237.555787</b>	619.281532	1220.529238	610.768257	1219.545222	610.276249	G	<b>532.308938</b>	266.658107	515.282389	258.144832	514.298373	257.652824	6
9	<b>1324.587815</b>	662.797546	1307.561266	654.284271	1306.577250	653.792263	S	475.287474	238.147375	458.260925	229.634100	457.276909	229.142092	5
10	<b>1395.624929</b>	698.316103	1378.598380	689.802828	1377.614364	689.310820	A	<b>388.255446</b>	194.631361	371.228897	<b>186.118086</b>			4
11	<b>1508.708993</b>	754.858135	1491.682444	746.344860	<b>1490.698428</b>	745.852852	L	<b>317.218332</b>	159.112804	300.191783	150.599529			3
12	<b>1565.730457</b>	783.368866	1548.703908	774.855592	1547.719892	774.363584	G	<b>204.134268</b>	102.570772	187.107719	94.057497			2
13							K	147.112804	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **DYVSQFEGSALGK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
68.9	1710.828705	0.004783	<a href="#">DYVSQFEGSALGK</a>
2.1	1710.835907	-0.002419	<a href="#">ASRKGSFGEMGEQTVK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **EQLTPLIK**

Found in **APOA2\_HUMAN**, Apolipoprotein A-II OS=Homo sapiens GN=APOA2 PE=1 SV=1

Match to Query 19084: 1251.728548 from(626.871550,2+) rtinseconds(2140) index(19848)

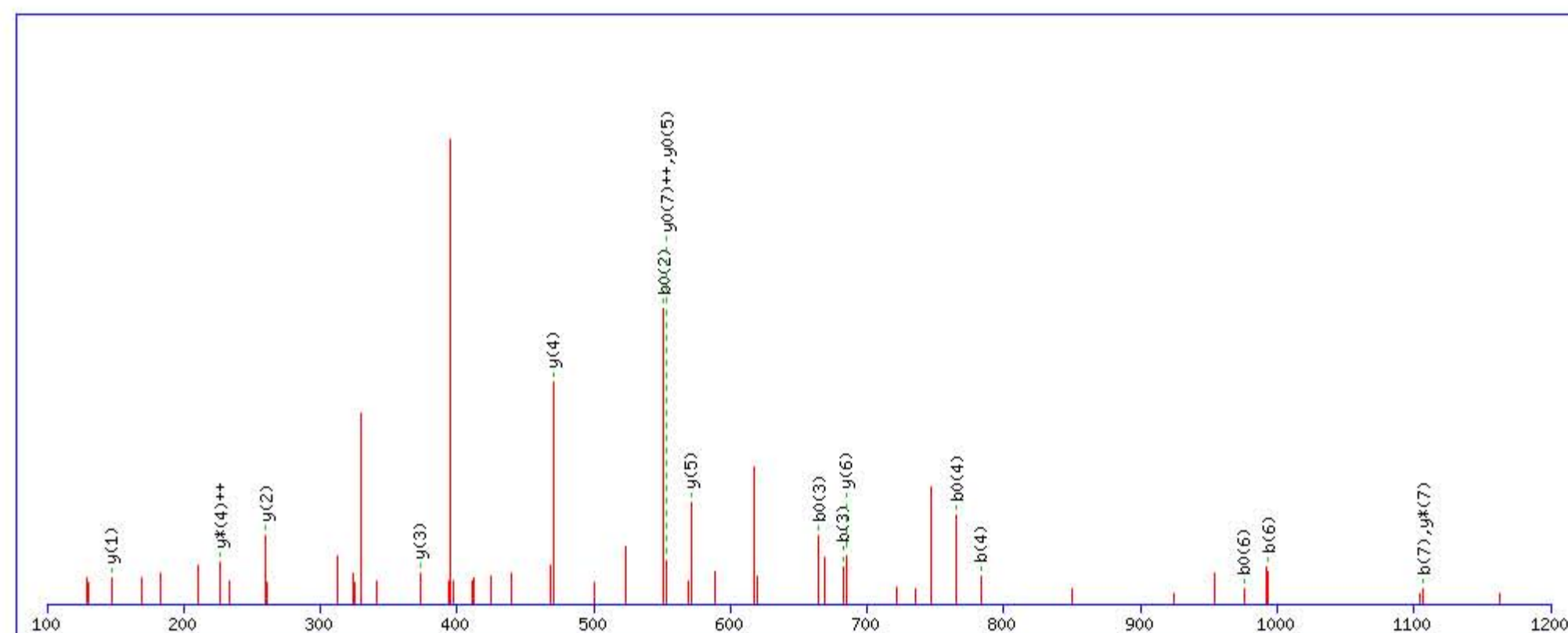
Title: Locus:1.1.1.3311.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1251.726059

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

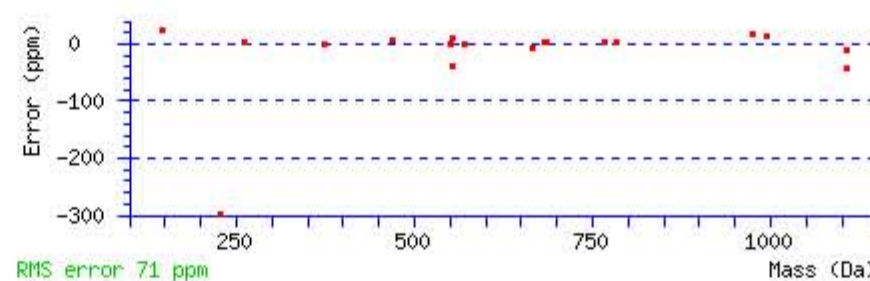
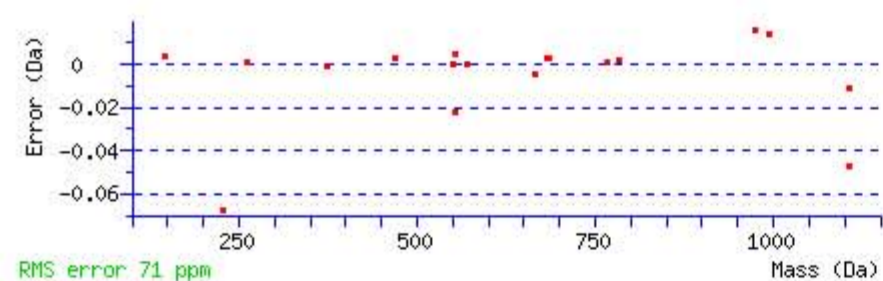
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.013

Matches : 18/74 fragment ions using 37 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							8
2	569.275195	285.141236	552.248646	276.627961	551.264630	276.135953	Q	1123.690765	562.349021	1106.664216	553.835746	1105.680200	553.343738	7
3	682.359259	341.683268	665.332710	333.169993	664.348694	332.677985	L	684.465439	342.736358	667.438890	334.223083	666.454874	333.731075	6
4	783.406938	392.207107	766.380389	383.693833	765.396373	383.201825	T	571.381375	286.194326	554.354826	277.681051	553.370810	277.189043	5
5	880.459702	440.733489	863.433153	432.220215	862.449137	431.728207	P	470.333696	235.670486	453.307147	227.157212			4
6	993.543766	497.275521	976.517217	488.762247	975.533201	488.270239	L	373.280932	187.144104	356.254383	178.630830			3
7	1106.627830	553.817553	1089.601281	545.304279	1088.617265	544.812271	I	260.196868	130.602072	243.170319	122.088798			2
8							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EQLTPLIK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
26.4	1251.726059	0.002489	<a href="#">EQLTPLIK</a>
6.2	1251.744690	-0.016142	<a href="#">QMLPIVLK</a>
3.4	1251.722702	0.005846	<a href="#">FFKTLQDLLK</a>
2.3	1251.722672	0.005876	<a href="#">NYIPYLTKLK</a>
1.8	1251.733932	-0.005384	<a href="#">LPVIQLWDLR</a>
1.6	1251.729874	-0.001326	<a href="#">RHKLESELIK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SPELQAEAK**

Found in **APOA2\_HUMAN**, Apolipoprotein A-II OS=Homo sapiens GN=APOA2 PE=1 SV=1

Match to Query 19976: 1282.654248 from(642.334400,2+) rtinseconds(1601) index(16515)

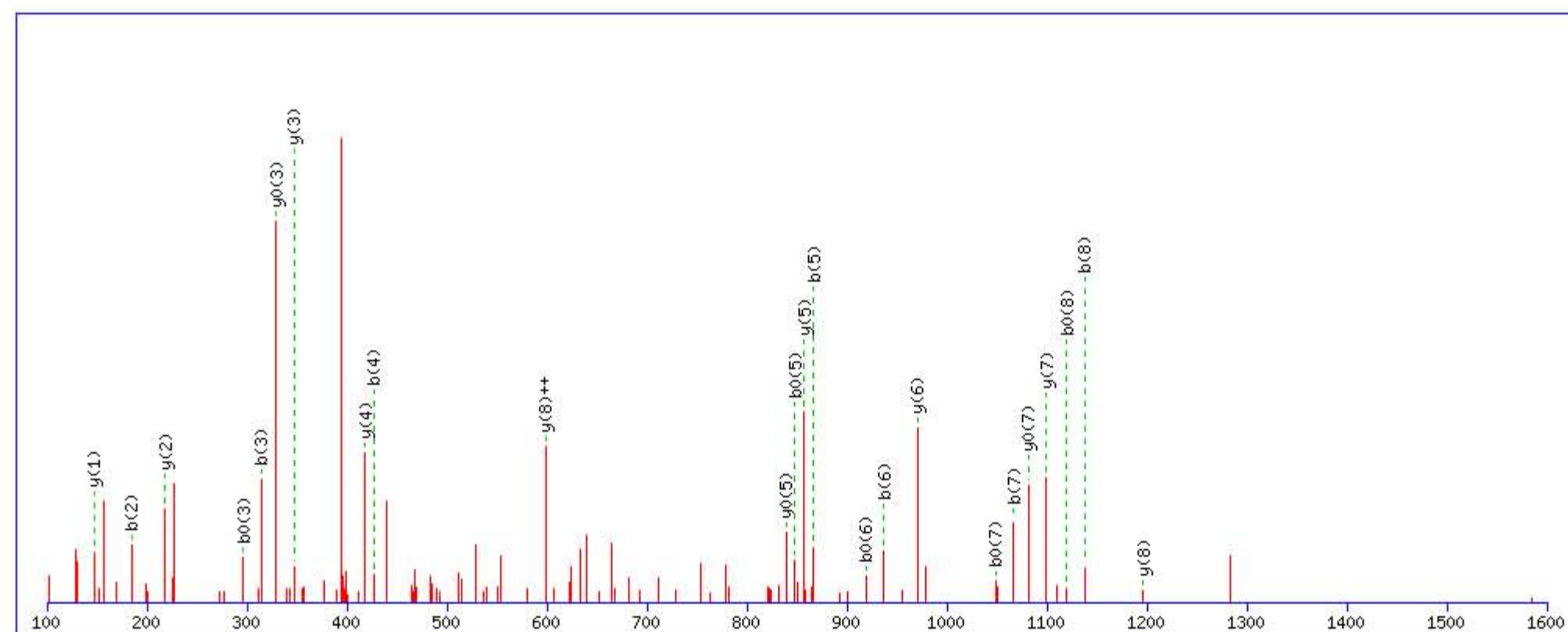
Title: Locus:1.1.1.3123.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1282.659088

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

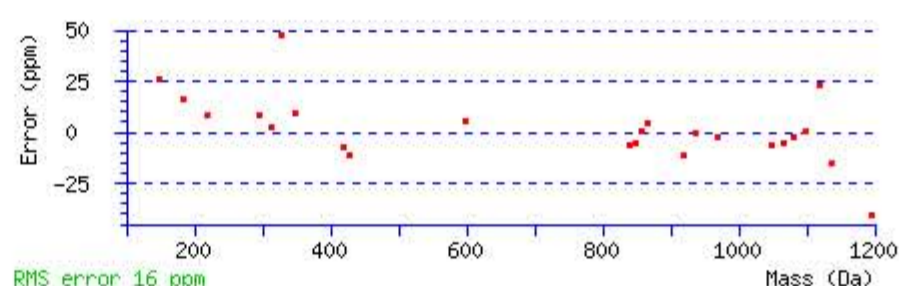
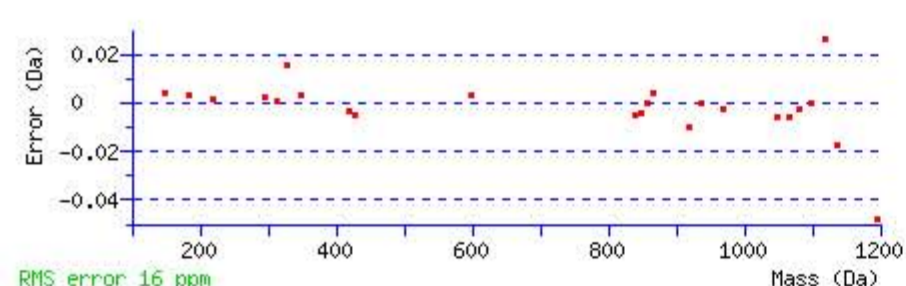
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 49 Expect: 6.3e-005

Matches : 24/84 fragment ions using 44 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							9
2	185.092068	93.049672			167.081503	84.044389	P	1196.634372	598.820824	1179.607823	590.307550	1178.623807	589.815541	8
3	314.134661	157.570968			296.124096	148.565686	E	1099.581608	550.294442	1082.555059	541.781168	1081.571043	541.289160	7
4	427.218725	214.113001			409.208160	205.107718	L	970.539015	485.773146	953.512466	477.259871	952.528450	476.767863	6
5	866.444051	433.725664	849.417502	425.212389	848.433486	424.720381	Q	857.454951	429.231114	840.428402	420.717839	839.444386	420.225831	5
6	937.481165	469.244221	920.454616	460.730946	919.470600	460.238938	A	418.229625	209.618450	401.203076	201.105176	400.219060	200.613168	4
7	1066.523758	533.765517	1049.497209	525.252243	1048.513193	524.760235	E	347.192511	174.099893	330.165962	165.586619	329.181946	165.094611	3
8	1137.560872	569.284074	1120.534323	560.770800	1119.550307	560.278792	A	218.149918	109.578597	201.123369	101.065322			2
9							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [SPELQAEAK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
49.1	1282.659088	-0.004840	<a href="#">SPELQAEAK</a>
4.1	1282.670334	-0.016086	<a href="#">EPIQASTAR</a>
3.9	1282.637802	0.016446	<a href="#">KGHETLRDGR</a>
3.6	1282.641830	0.012418	<a href="#">SYPGHVQPATAR</a>
3.4	1282.641815	0.012433	<a href="#">SEAFFRKADGR</a>
2.9	1282.662949	-0.008701	<a href="#">DLSDTQRHLAK</a>
2.7	1282.655716	-0.001468	<a href="#">ALEAEKYGFQK</a>
1.5	1282.670334	-0.016086	<a href="#">QQQEQIAK</a>
1.1	1282.652573	0.001675	<a href="#">KMRAISWTMK</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **EPCVESLVSQYFQTVTDYGK**

Found in **APOA2\_HUMAN**, Apolipoprotein A-II OS=Homo sapiens GN=APOA2 PE=1 SV=1

Match to Query 50012: 2660.247612 from(887.756480,3+) rtinseconds(3167) index(39146)

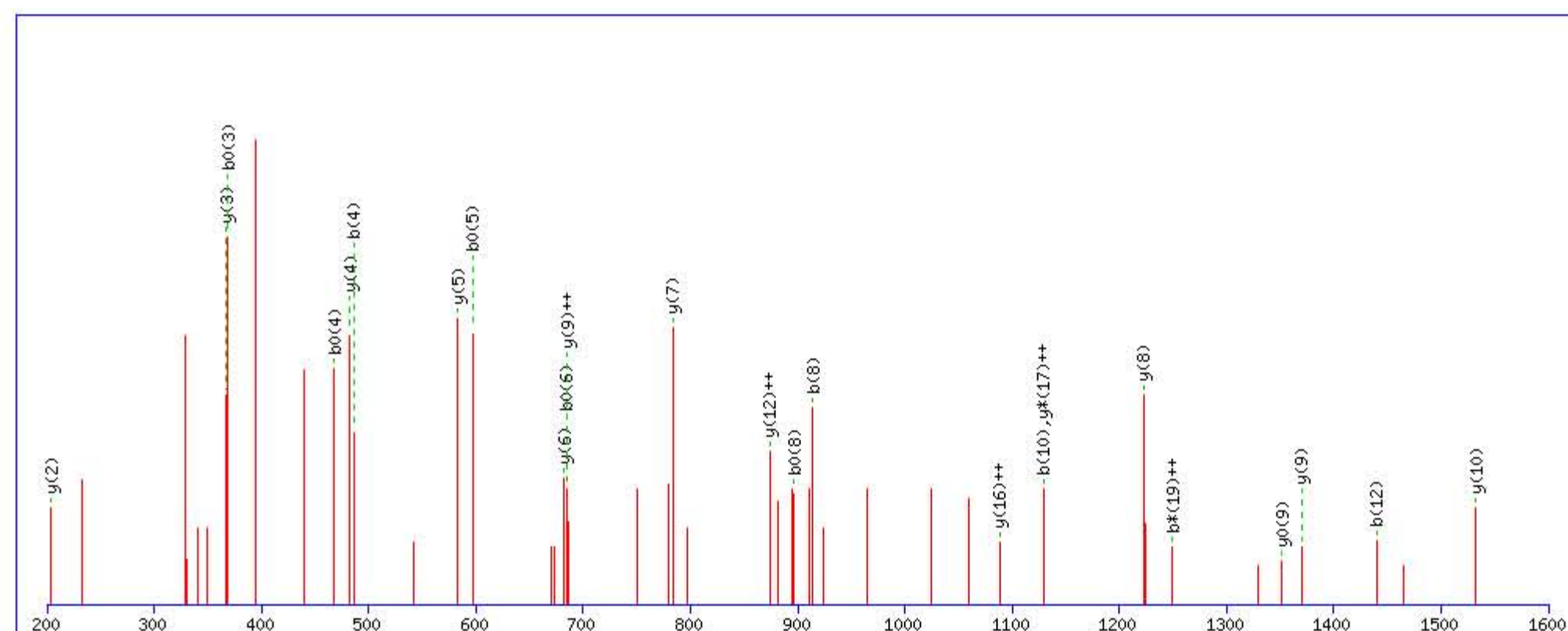
Title: Locus:1.1.1.3762.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2660.250244

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

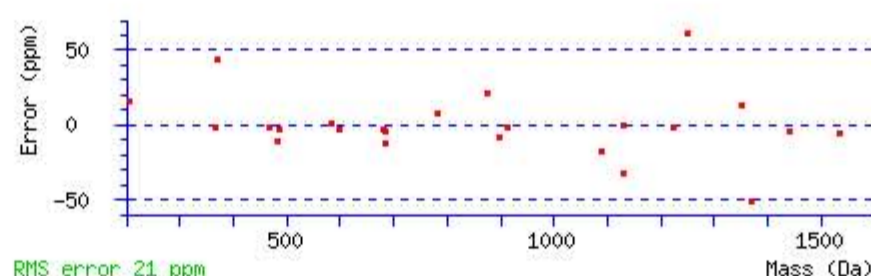
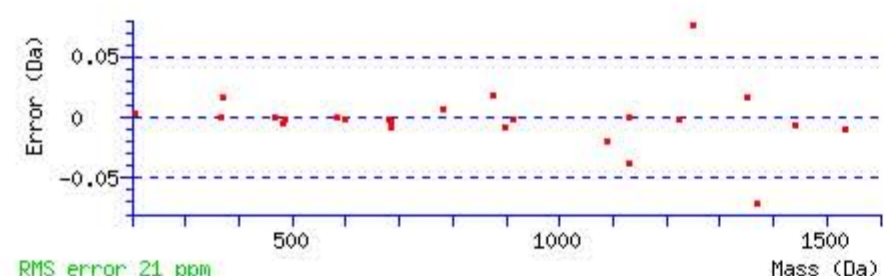
Variable modifications:

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 40 Expect: 0.0021

Matches : 24/204 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							20
2	227.102633	114.054954			209.092068	105.049672	P	2532.214913	1266.611094	2515.188364	1258.097820	2514.204348	1257.605812	19
3	387.133282	194.070279			369.122717	185.064997	C	2435.162149	1218.084712	2418.135600	1209.571438	2417.151584	1209.079430	18
4	486.201696	243.604486			468.191131	234.599204	V	2275.131500	1138.069388	2258.104951	1129.556113	2257.120935	1129.064105	17
5	615.244289	308.125783			597.233724	299.120500	E	2176.063086	1088.535181	2159.036537	1080.021906	2158.052521	1079.529898	16
6	702.276317	351.641797			684.265752	342.636514	S	2047.020493	1024.013885	2029.993944	1015.500610	2029.009928	1015.008602	15
7	815.360381	408.183829			797.349816	399.178546	L	1959.988465	980.497871	1942.961916	971.984596	1941.977900	971.492588	14
8	914.428795	457.718036			896.418230	448.712753	V	1846.904401	923.955839	1829.877852	915.442564	1828.893836	914.950556	13
9	1001.460823	501.234050			983.450258	492.228767	S	1747.835987	874.421632	1730.809438	865.908357	1729.825422	865.416349	12
10	1129.519401	565.263339	1112.492852	556.750064	1111.508836	556.258056	Q	1660.803959	830.905618	1643.777410	822.392343	1642.793394	821.900335	11
11	1292.582730	646.795003	1275.556181	638.281729	1274.572165	637.789721	Y	1532.745381	766.876329	1515.718832	758.363054	1514.734816	757.871046	10
12	1439.651144	720.329210	1422.624595	711.815936	1421.640579	711.323928	F	1369.682052	685.344664	1352.655503	676.831390	1351.671487	676.339382	9
13	1878.876470	939.941873	1861.849921	931.428599	1860.865905	930.936591	Q	1222.613638	611.810457	1205.587089	603.297183	1204.603073	602.805175	8
14	1979.924149	990.465713	1962.897600	981.952438	1961.913584	981.460430	T	783.388312	392.197794	766.361763	383.684519	765.377747	383.192511	7
15	2078.992563	1039.999920	2061.966014	1031.486645	2060.981998	1030.994637	V	682.340633	341.673954	665.314084	333.160680	664.330068	332.668672	6
16	2180.040242	1090.523759	2163.013693	1082.010484	2162.029677	1081.518476	T	583.272219	292.139747	566.245670	283.626473	565.261654	283.134465	5
17	2295.067185	1148.037230	2278.040636	1139.523956	2277.056620	1139.031948	D	482.224540	241.615908	465.197991	233.102633	464.213975	232.610625	4
18	2458.130514	1229.568895	2441.103965	1221.055620	2440.119949	1220.563612	Y	367.197597	184.102436	350.171048	175.589162			3
19	2515.151978	1258.079627	2498.125429	1249.566352	2497.141413	1249.074344	G	204.134268	102.570772	187.107719	94.057497			2
20							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [EPCVESLVSQYFQTVTDYGK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
39.8	2660.250244	-0.002632	<a href="#">EPCVESLVSQYFQTVTDYGK</a>
23.5	2660.250244	-0.002632	<a href="#">EPCVESLVSQYFQTVTDYGK</a>



# {MATRIX} {SCIENCE} Mascot Search Results

## Peptide View

MS/MS Fragmentation of **EIQQR**

Found in **T161A\_HUMAN**, Transmembrane protein 161A OS=Homo sapiens GN=TMEM161A PE=2 SV=1

Match to Query 11195: 983.516348 from(492.765450,2+) rtinseconds(1418) index(28361)

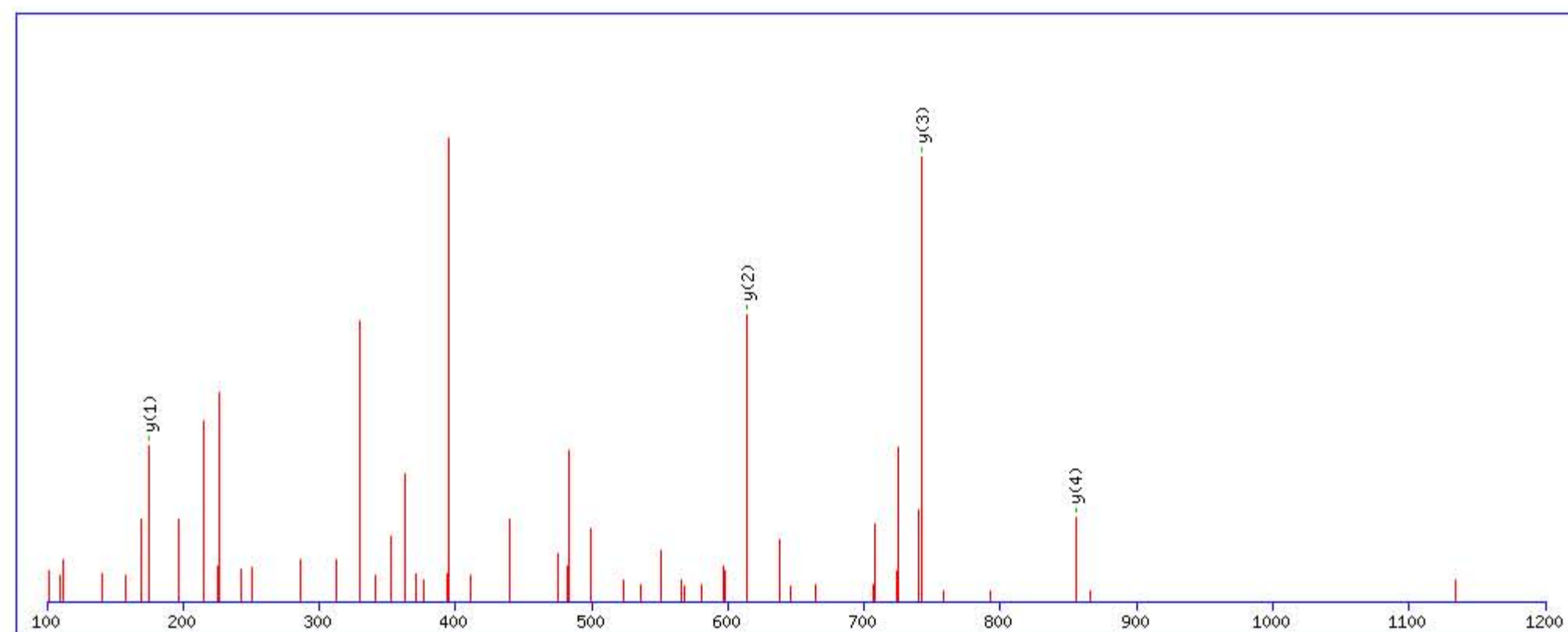
Title: Locus:1.1.1.3157.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 983.522217

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

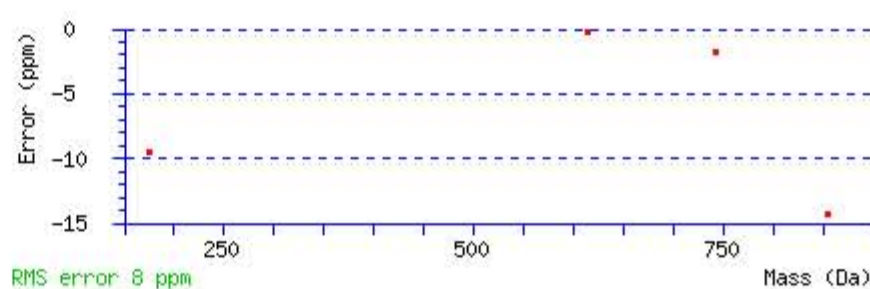
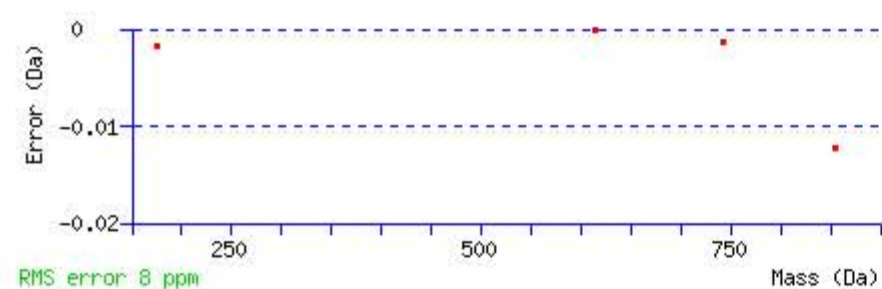
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 25 Expect: 0.062

Matches : 4/36 fragment ions using 8 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E					5
2	243.133933	122.070605			225.123368	113.065322	I	<b>855.486920</b>	428.247098	838.460371	419.733824	4
3	371.192511	186.099894	354.165962	177.586619	353.181946	177.094611	Q	<b>742.402856</b>	371.705066	725.376307	363.191792	3
4	810.417837	405.712557	793.391288	397.199282	792.407272	396.707274	Q	<b>614.344278</b>	307.675777	597.317729	299.162503	2
5							R	<b>175.118952</b>	88.063114	158.092403	79.549840	1



NCBI BLAST search of [EIQQR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
25.2	983.522217	-0.005869	<a href="#">EIQQR</a>
25.2	983.522217	-0.005869	<a href="#">ELQQR</a>
25.2	983.503601	0.012747	<a href="#">ELQQVDPR</a>
12.9	983.522217	-0.005869	<a href="#">IEQQR</a>
12.9	983.507599	0.008749	<a href="#">LEKEFYR</a>
12.9	983.522217	-0.005869	<a href="#">LEQQR</a>
11.9	983.522217	-0.005869	<a href="#">EIQQR</a>
11.9	983.503586	0.012762	<a href="#">EITSLHER</a>
11.9	983.522217	-0.005869	<a href="#">ELQQR</a>
11.0	983.522217	-0.005869	<a href="#">EAAVQR</a>

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

# Mascot Search Results

## Peptide View

### MS/MS Fragmentation of **GNTEGLQK**

Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 16414: 1156.587208 from(579.300880,2+) rtinseconds(1457) index(28526)

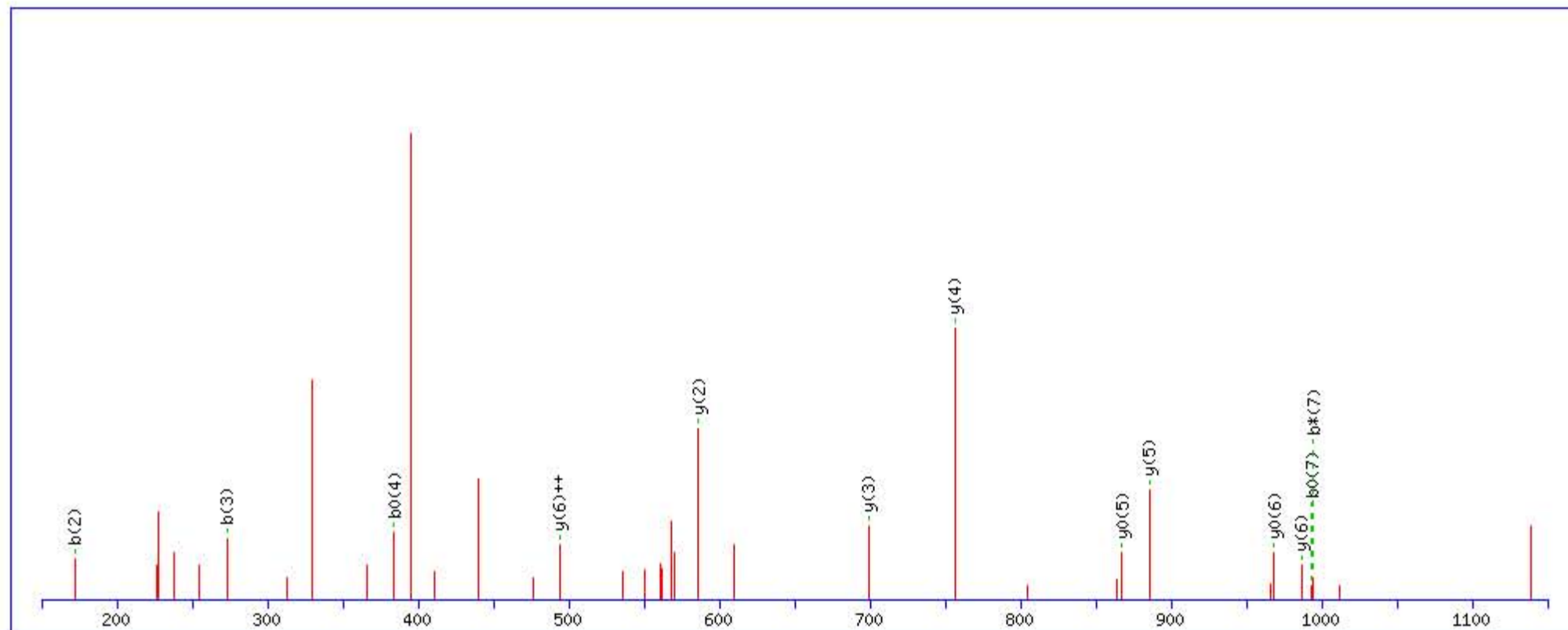
Title: Locus:1.1.1.3170.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1156.591034

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

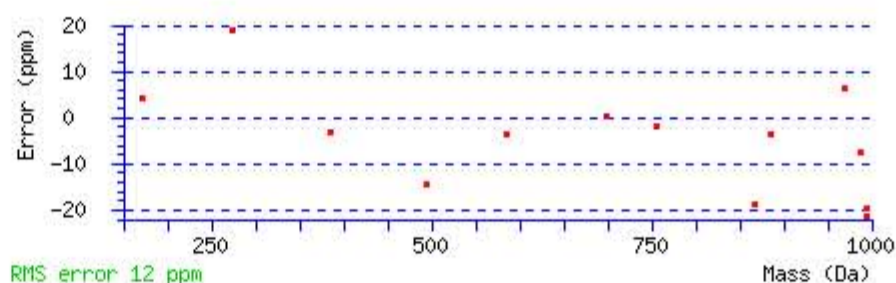
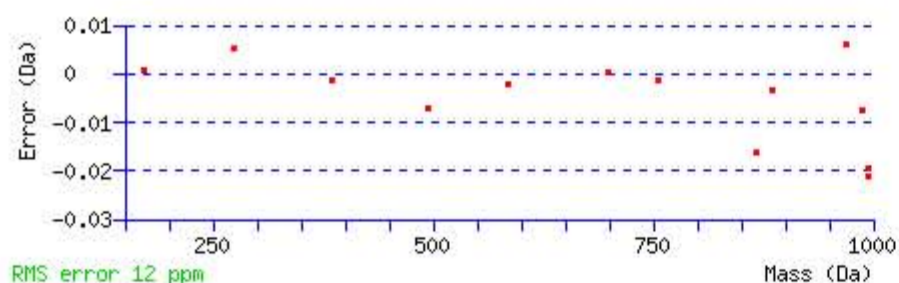
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 25 Expect: 0.013

Matches : 13/70 fragment ions using 26 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					<b>G</b>							8
2	<b>172.071667</b>	86.539471	155.045118	78.026197			<b>N</b>	1100.576857	550.792067	1083.550308	542.278792	1082.566292	541.786784	7
3	<b>273.119346</b>	137.063311	256.092797	128.550037	255.108781	128.058029	<b>T</b>	<b>986.533930</b>	<b>493.770603</b>	969.507381	485.257329	<b>968.523365</b>	484.765321	6
4	402.161939	201.584608	385.135390	193.071333	<b>384.151374</b>	192.579325	<b>E</b>	<b>885.486251</b>	443.246764	868.459702	434.733489	<b>867.475686</b>	434.241481	5
5	459.183403	230.095339	442.156854	221.582065	441.172838	221.090057	<b>G</b>	<b>756.443658</b>	378.725467	739.417109	370.212193			4
6	572.267467	286.637372	555.240918	278.124097	554.256902	277.632089	<b>L</b>	<b>699.422194</b>	350.214735	682.395645	341.701461			3
7	1011.492793	506.250035	<b>994.466244</b>	497.736760	<b>993.482228</b>	497.244752	<b>Q</b>	<b>586.338130</b>	293.672703	569.311581	285.159429			2
8							<b>K</b>	147.112804	74.060040	130.086255	65.546766			1



### NCBI BLAST search of **GNTEGLQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
25.1	1156.591034	-0.003826	<a href="#">GNTEGLQK</a>
4.7	1156.572418	0.014790	<a href="#">GPQTSTSPASPK</a>
0.5	1156.598923	-0.011715	<a href="#">GDRGGPGIPGFK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **IDQNVEELK**

Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 23553: 1397.716908 from(699.865730,2+) rtinseconds(1840) index(59630)

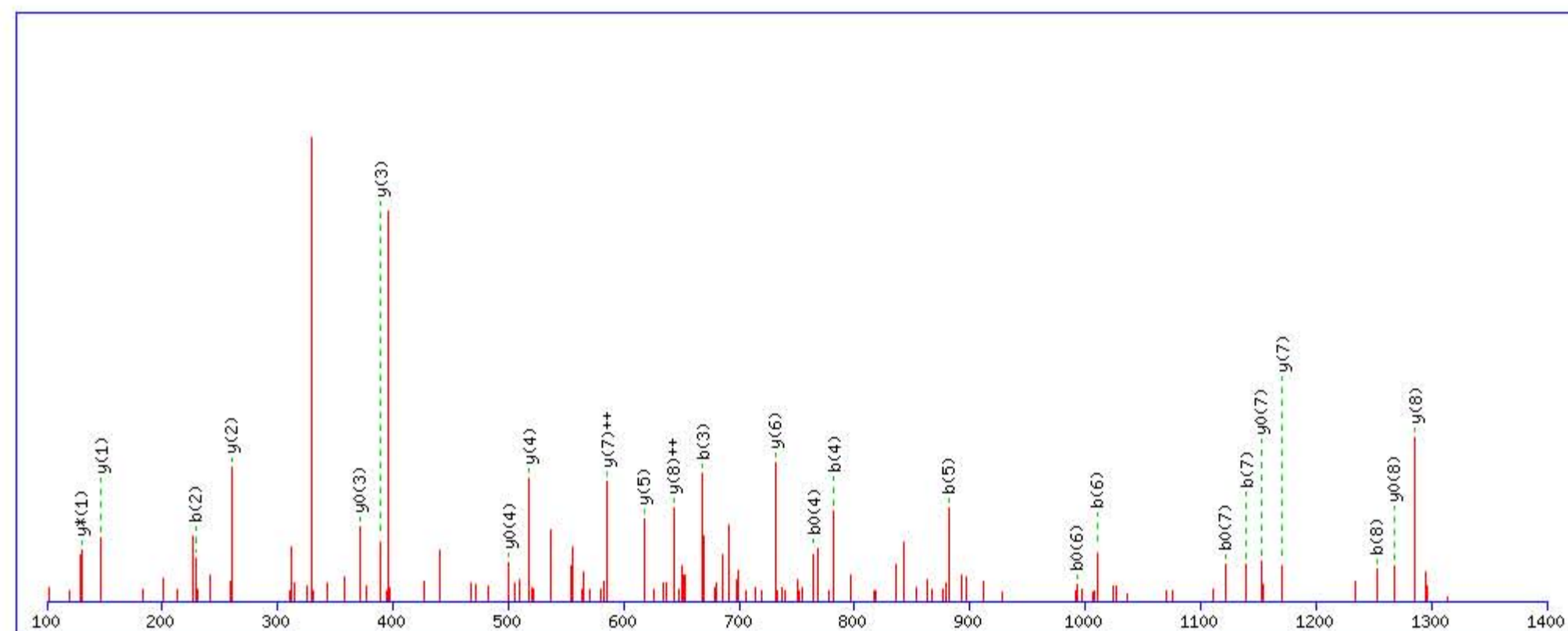
Title: Locus:1.1.1.1552.11 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1397.722427

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

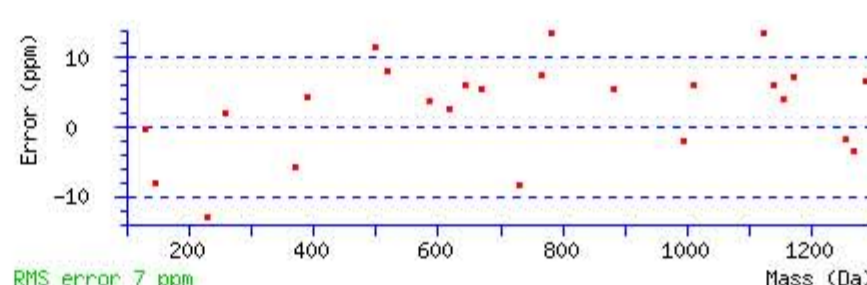
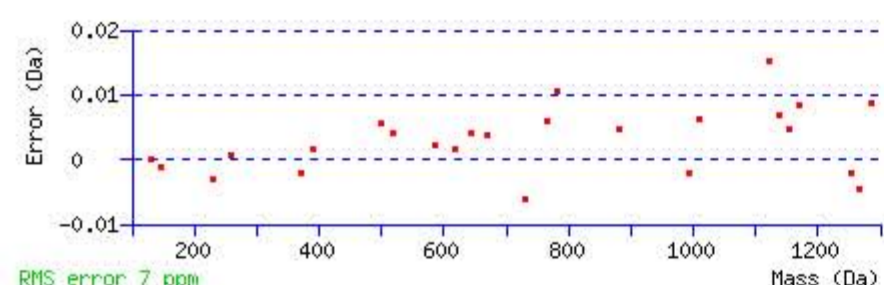
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 43 Expect: 0.00037

Matches : 25/86 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							9
2	<b>229.118283</b>	115.062779			211.107718	106.057497	D	<b>1285.645664</b>	<b>643.326470</b>	1268.619115	634.813196	<b>1267.635099</b>	634.321187	8
3	<b>668.343609</b>	334.675443	651.317060	326.162168	650.333044	325.670160	Q	<b>1170.618721</b>	<b>585.812998</b>	1153.592172	577.299724	<b>1152.608156</b>	576.807716	7
4	<b>782.386536</b>	391.696906	765.359987	383.183631	<b>764.375971</b>	382.691623	N	<b>731.393395</b>	366.200335	714.366846	357.687061	713.382830	357.195053	6
5	<b>881.454950</b>	441.231113	864.428401	432.717838	863.444385	432.225830	V	<b>617.350468</b>	309.178872	600.323919	300.665597	599.339903	300.173589	5
6	<b>1010.497543</b>	505.752410	993.470994	497.239135	<b>992.486978</b>	496.747127	E	<b>518.282054</b>	259.644665	501.255505	251.131390	<b>500.271489</b>	250.639382	4
7	<b>1139.540136</b>	570.273706	1122.513587	561.760431	<b>1121.529571</b>	561.268423	E	<b>389.239461</b>	195.123368	372.212912	186.610094	<b>371.228896</b>	186.118086	3
8	<b>1252.624200</b>	626.815738	1235.597651	618.302463	1234.613635	617.810455	L	<b>260.196868</b>	130.602072	243.170319	122.088797			2
9							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **IDQNVEELK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
43.0	1397.722427	-0.005519	<a href="#">IDQNVEELK</a>
6.0	1397.733688	-0.016780	<a href="#">LCDVTLKIGDHK</a>
4.9	1397.737686	-0.020778	<a href="#">MYLNFLVSLGNK</a>
4.7	1397.722412	-0.005504	<a href="#">QLEAQLEEK</a>
4.5	1397.701309	0.015599	<a href="#">LLFNFVEQNMK</a>
3.8	1397.737686	-0.020778	<a href="#">LKEFCGEFLKK</a>
3.6	1397.715897	0.001011	<a href="#">IKSADKMPPMHK</a>
3.6	1397.733658	-0.016750	<a href="#">QNITNQLEK</a>
3.1	1397.715897	0.001011	<a href="#">IKSADKMPPMHK</a>
3.0	1397.704651	0.012257	<a href="#">QLEKQMYSIMK</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **IDQTV EELR**

Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 24506: 1412.724508 from(707.369530,2+) rtinseconds(1926) index(18540)

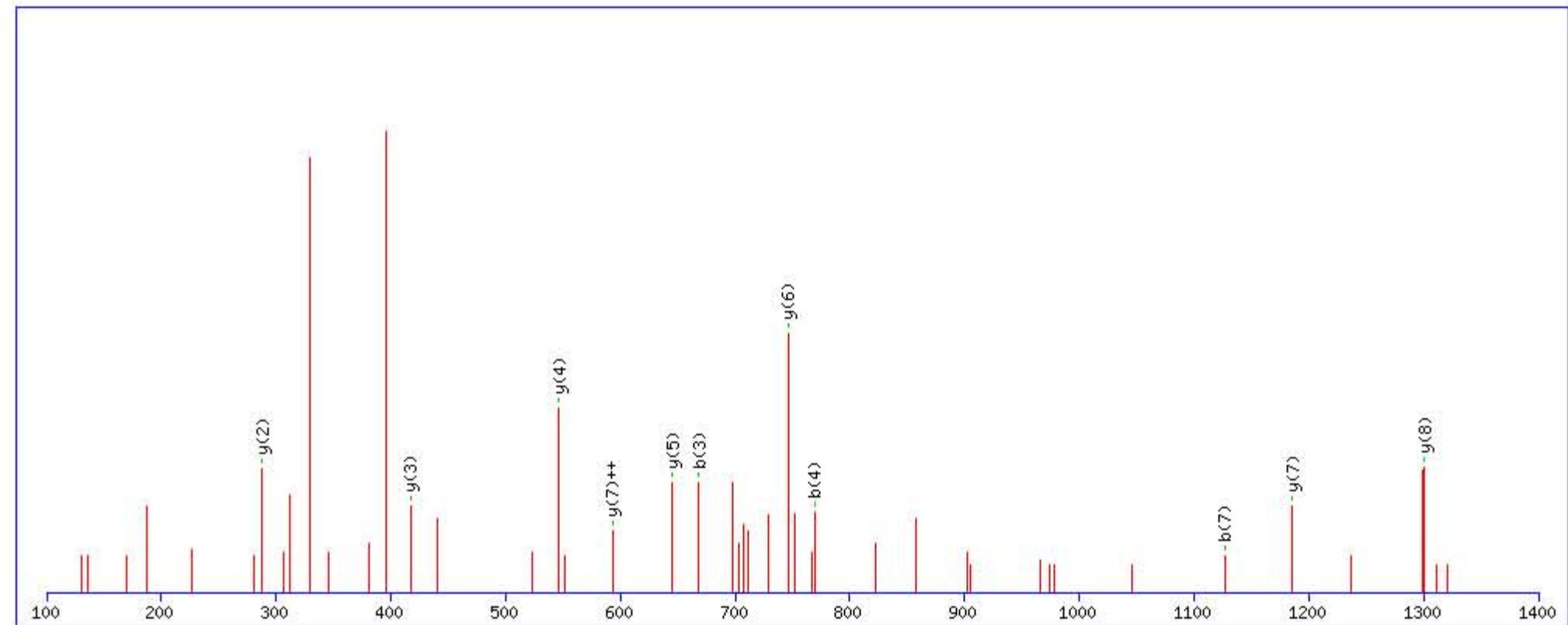
Title: Locus:1.1.1.3236.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1412.733337

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

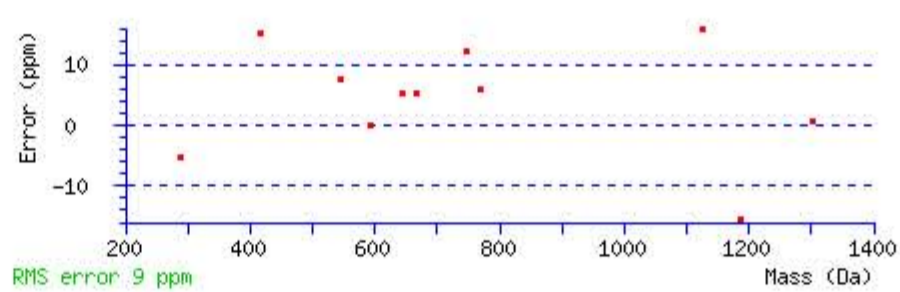
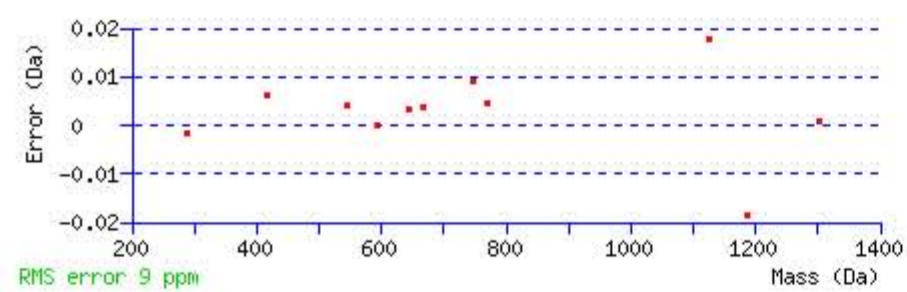
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 36 Expect: 0.00095

Matches : 11/86 fragment ions using 23 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							9
2	229.118283	115.062779			211.107718	106.057497	D	1300.656564	650.831920	1283.630015	642.318646	1282.645999	641.826638	8
3	668.343609	334.675443	651.317060	326.162168	650.333044	325.670160	Q	1185.629621	593.318449	1168.603072	584.805174	1167.619056	584.313166	7
4	769.391288	385.199282	752.364739	376.686008	751.380723	376.194000	T	746.404295	373.705786	729.377746	365.192511	728.393730	364.700503	6
5	868.459702	434.733489	851.433153	426.220215	850.449137	425.728207	V	645.356616	323.181946	628.330067	314.668672	627.346051	314.176664	5
6	997.502295	499.254786	980.475746	490.741511	979.491730	490.249503	E	546.288202	273.647739	529.261653	265.134465	528.277637	264.642457	4
7	1126.544888	563.776082	1109.518339	555.262808	1108.534323	554.770800	E	417.245609	209.126442	400.219060	200.613168	399.235044	200.121160	3
8	1239.628952	620.318114	1222.602403	611.804840	1221.618387	611.312832	L	288.203016	144.605146	271.176467	136.091871			2
9							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **IDQTV EELR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
35.9	1412.733337	-0.008829	<a href="#">IDQTV EELR</a>
3.5	1412.744537	-0.020029	<a href="#">IPPEKMRELER</a>
1.1	1412.708191	0.016317	<a href="#">LQESASGTGPR</a>
1.1	1412.737167	-0.012659	<a href="#">HSESVKTERNVK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LEPYADQLR**

Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 24541: 1414.720868 from(708.367710,2+) rtinseconds(2004) index(31924)

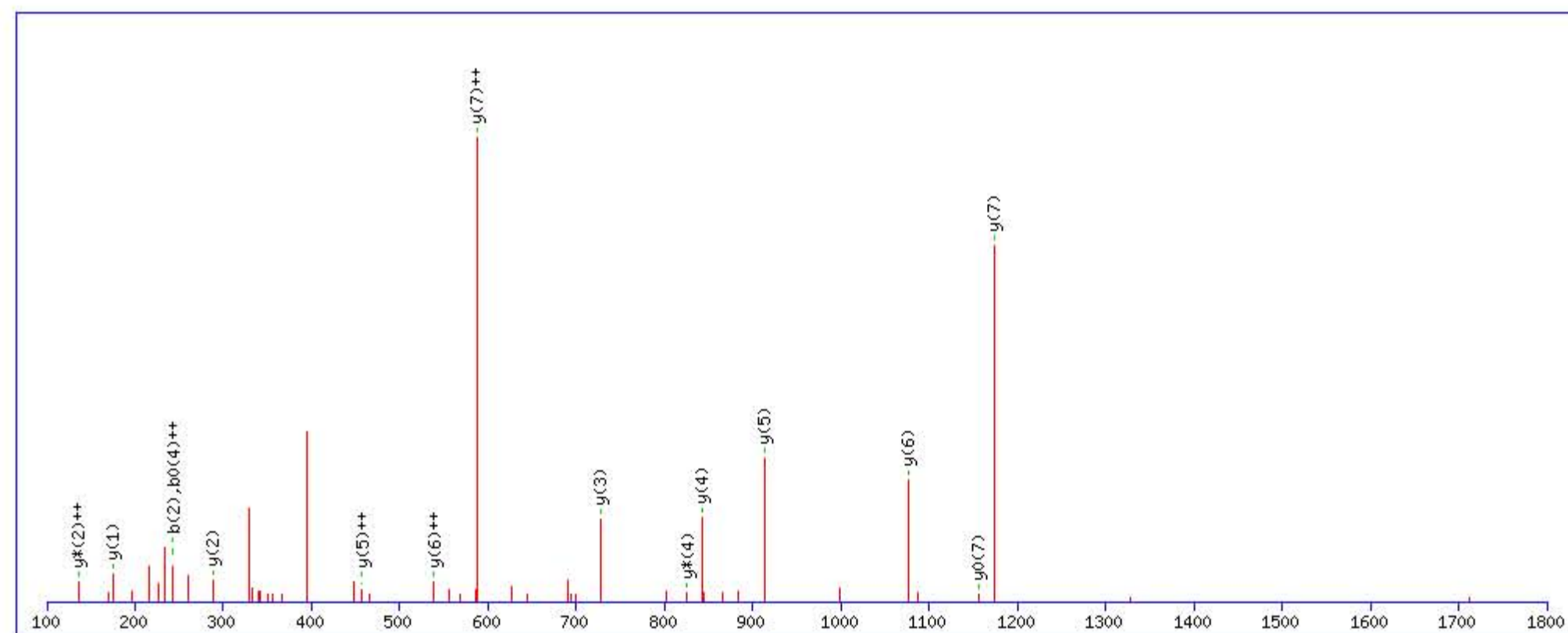
Title: Locus:1.1.1.3361.21 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1414.727844

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

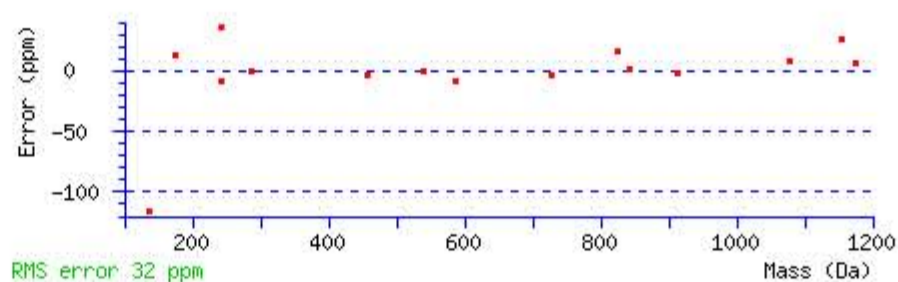
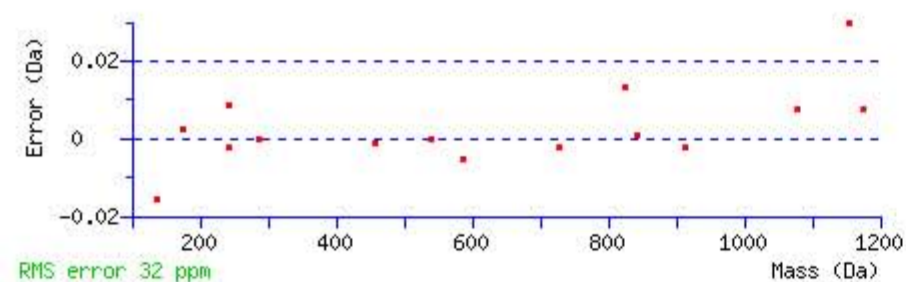
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.0032

Matches : 15/76 fragment ions using 36 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							9
2	<b>243.133933</b>	122.070605			225.123368	113.065322	E	1302.651085	651.829181	1285.624536	643.315906	1284.640520	642.823898	8
3	340.186697	170.596987			322.176132	161.591704	P	<b>1173.608492</b>	<b>587.307884</b>	1156.581943	578.794610	<b>1155.597927</b>	578.302602	7
4	503.250026	252.128651			485.239461	<b>243.123369</b>	Y	<b>1076.555728</b>	<b>538.781502</b>	1059.529179	530.268228	1058.545163	529.776220	6
5	574.287140	287.647208			556.276575	278.641926	A	<b>913.492399</b>	<b>457.249838</b>	896.465850	448.736563	895.481834	448.244555	5
6	689.314083	345.160680			671.303518	336.155397	D	<b>842.455285</b>	421.731281	<b>825.428736</b>	413.218006	824.444720	412.725998	4
7	1128.539409	564.773343	1111.512860	556.260068	1110.528844	555.768060	Q	<b>727.428342</b>	364.217809	710.401793	355.704535			3
8	1241.623473	621.315375	1224.596924	612.802100	1223.612908	612.310092	L	<b>288.203016</b>	144.605146	271.176467	<b>136.091871</b>			2
9							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LEPYADQLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
32.0	1414.727844	-0.006976	<a href="#">LEPYADQLR</a>
5.1	1414.735931	-0.015063	<a href="#">LMRGLLHCMIR</a>
3.0	1414.712585	0.008283	<a href="#">EISTEEQLR</a>
1.3	1414.741547	-0.020679	<a href="#">EIEENQKRIEK</a>
1.0	1414.741577	-0.020709	<a href="#">ELDVEVSRLEAR</a>
0.7	1414.717789	0.003079	<a href="#">GKGAAGGSWQQRGR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **ALVQQMEQLR**

Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 28010: 1525.807328 from(763.910940,2+) rtinseconds(2124) index(32592)

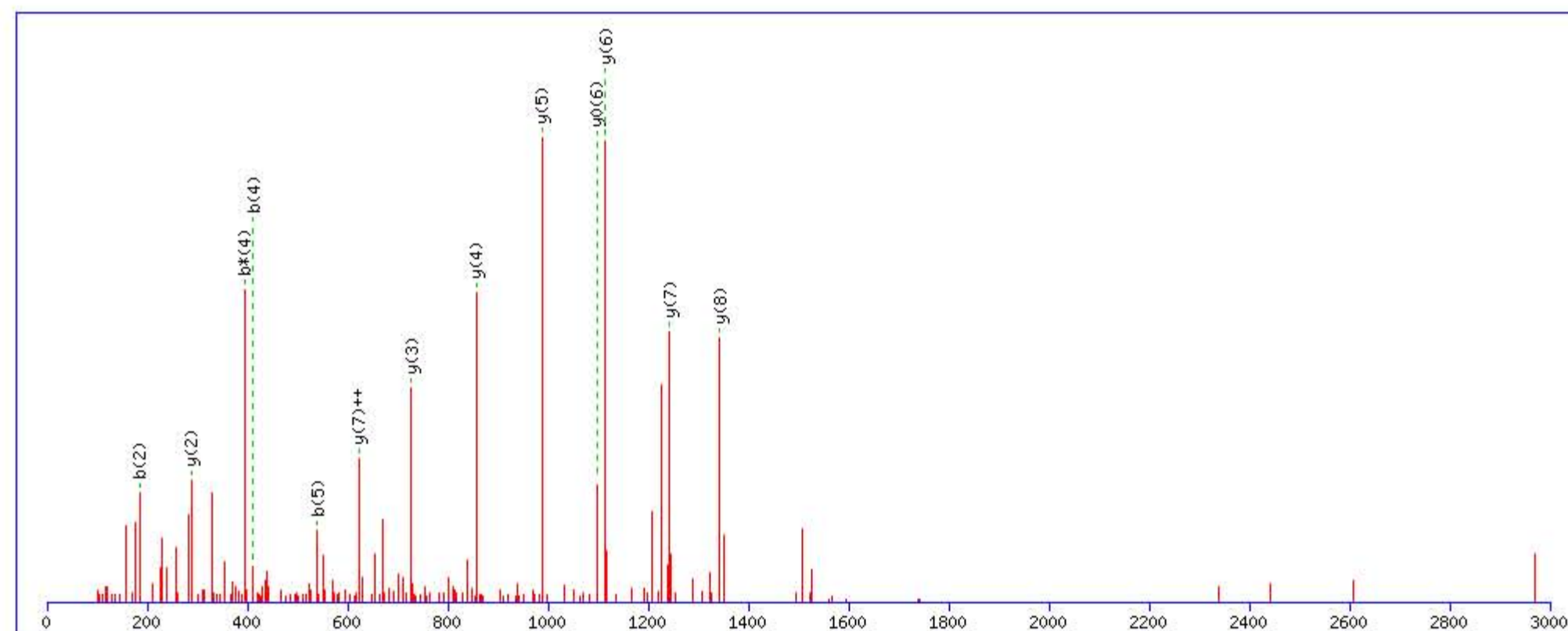
Title: Locus:1.1.1.3403.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1525.810867

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

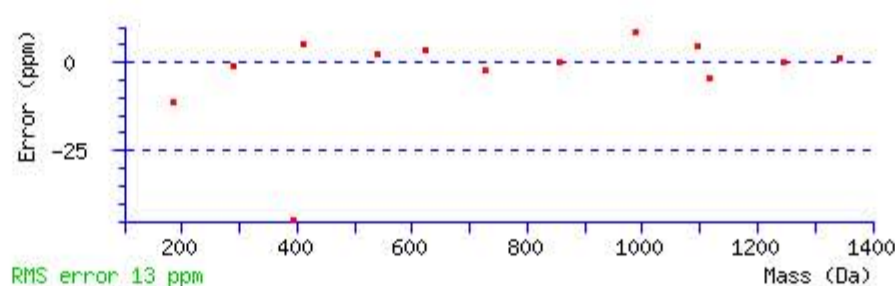
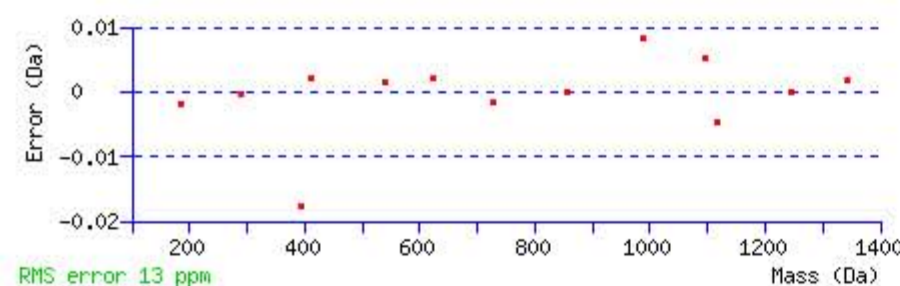
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 62 Expect: 1.9e-005

Matches : 13/84 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							10
2	<b>185.128454</b>	93.067865					L	1455.781054	728.394165	1438.754505	719.880890	1437.770489	719.388882	9
3	284.196868	142.602072					V	<b>1342.696990</b>	671.852133	1325.670441	663.338858	1324.686425	662.846850	8
4	<b>412.255446</b>	206.631361	<b>395.228897</b>	198.118087			Q	<b>1243.628576</b>	<b>622.317926</b>	1226.602027	613.804651	1225.618011	613.312643	7
5	<b>540.314024</b>	270.660650	523.287475	262.147376			Q	<b>1115.569998</b>	558.288637	1098.543449	549.775362	<b>1097.559433</b>	549.283354	6
6	671.354509	336.180893	654.327960	327.667618			M	<b>987.511420</b>	494.259348	970.484871	485.746073	969.500855	485.254065	5
7	800.397102	400.702189	783.370553	392.188915	782.386537	391.696907	E	<b>856.470935</b>	428.739105	839.444386	420.225831	838.460370	419.733823	4
8	1239.622428	620.314852	1222.595879	611.801578	1221.611863	611.309569	Q	<b>727.428342</b>	364.217809	710.401793	355.704534			3
9	1352.706492	676.856884	1335.679943	668.343609	1334.695927	667.851601	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
10							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **ALVQQMEQLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
61.8	1525.810867	-0.003539	<a href="#">ALVQQMEQLR</a>
19.9	1525.810867	-0.003539	<a href="#">ALVQQMEQLR</a>
14.1	1525.792236	0.015092	<a href="#">ALTEQQEQLR</a>
9.9	1525.798752	0.008576	<a href="#">SPVKEEKPKQEVK</a>
7.2	1525.803467	0.003861	<a href="#">SPSPRSSMAAVALR</a>
6.9	1525.810867	-0.003539	<a href="#">ALVQQMEQLR</a>
5.9	1525.784836	0.022492	<a href="#">LAQVATEEPERQR</a>
5.4	1525.814697	-0.007369	<a href="#">ERQRTEQLR</a>
5.0	1525.800064	0.007264	<a href="#">ARALQSYEAKAR</a>
4.0	1525.807495	-0.000167	<a href="#">WPPQQLMLSAALR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LLPHANEVSQK**

Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 28428: 1545.828432 from(516.283420,3+) rtinseconds(1553) index(58246)

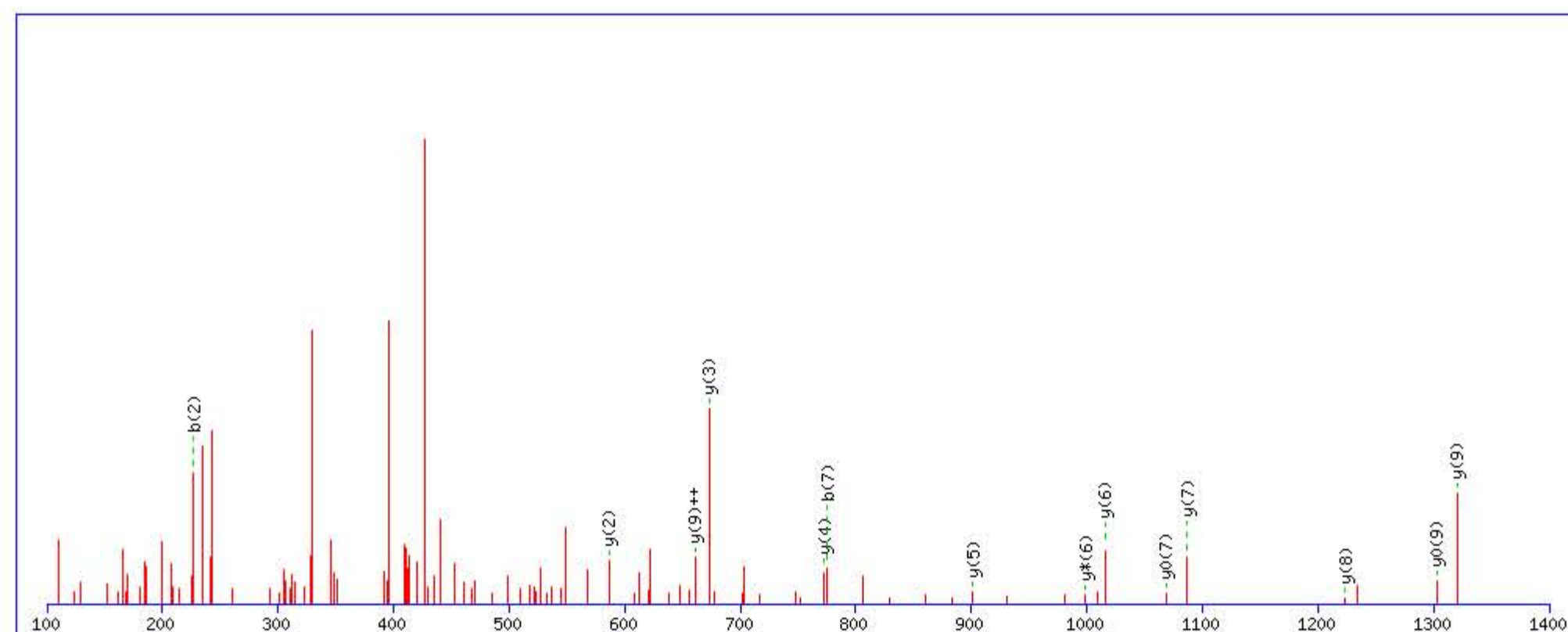
Title: Locus:1.1.1.1452.7 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1545.833710

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

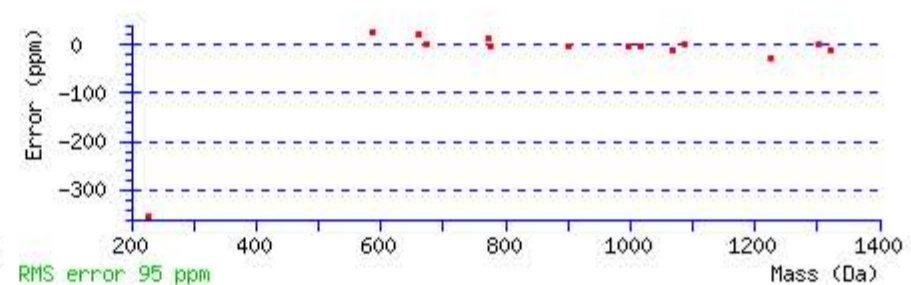
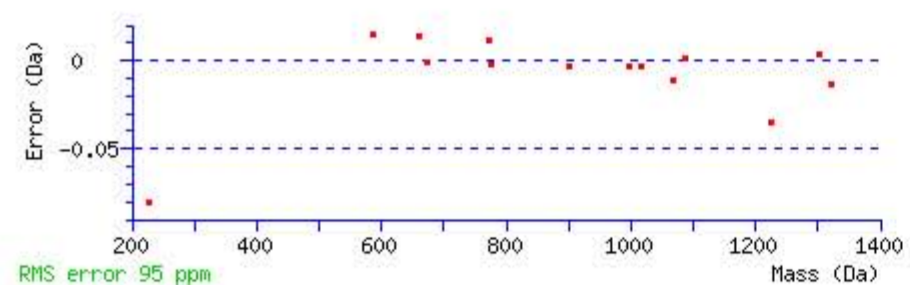
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 34 Expect: 0.0092

Matches : 14/94 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							11
2	<b>227.175404</b>	114.091340					L	1433.756946	717.382111	1416.730397	708.868837	1415.746381	708.376828	10
3	324.228168	162.617722					P	<b>1320.672882</b>	<b>660.840079</b>	1303.646333	652.326804	<b>1302.662317</b>	651.834796	9
4	461.287080	231.147178					H	<b>1223.620118</b>	612.313697	1206.593569	603.800422	1205.609553	603.308414	8
5	532.324194	266.665735					A	<b>1086.561206</b>	543.784241	1069.534657	535.270966	<b>1068.550641</b>	534.778958	7
6	646.367121	323.687199	629.340572	315.173924			N	<b>1015.524092</b>	508.265684	<b>998.497543</b>	499.752409	997.513527	499.260401	6
7	<b>775.409714</b>	388.208495	758.383165	379.695221	757.399149	379.203213	E	<b>901.481165</b>	451.244220	884.454616	442.730946	883.470600	442.238938	5
8	874.478128	437.742702	857.451579	429.229427	856.467563	428.737419	V	<b>772.438572</b>	386.722924	755.412023	378.209649	754.428007	377.717641	4
9	961.510156	481.258716	944.483607	472.745441	943.499591	472.253433	S	<b>673.370158</b>	337.188717	656.343609	328.675442	655.359593	328.183434	3
10	1400.735482	700.871379	1383.708933	692.358104	1382.724917	691.866096	Q	<b>586.338130</b>	293.672703	569.311581	285.159428			2
11							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [LLPHANEVSQK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
33.7	1545.833710	-0.005278	<a href="#">LLPHANEVSQK</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **TQVNTQAEQLR**

Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 30518: 1597.815672 from(533.612500,3+) rtinseconds(1623) index(29572)

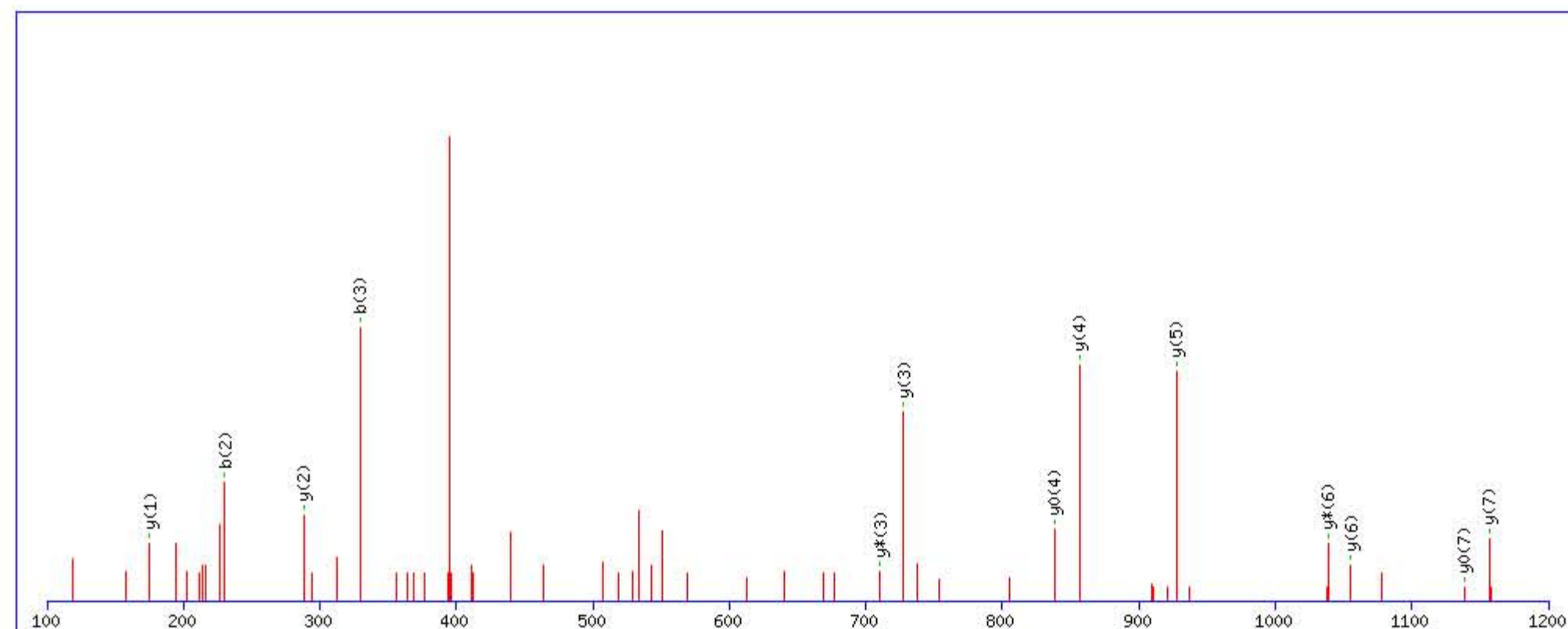
Title: Locus:1.1.1.3228.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1597.824615

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

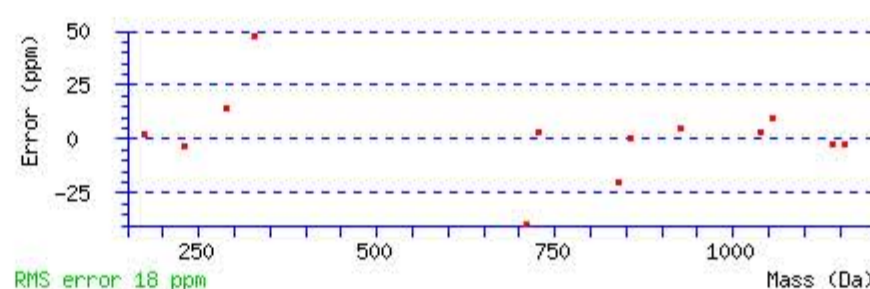
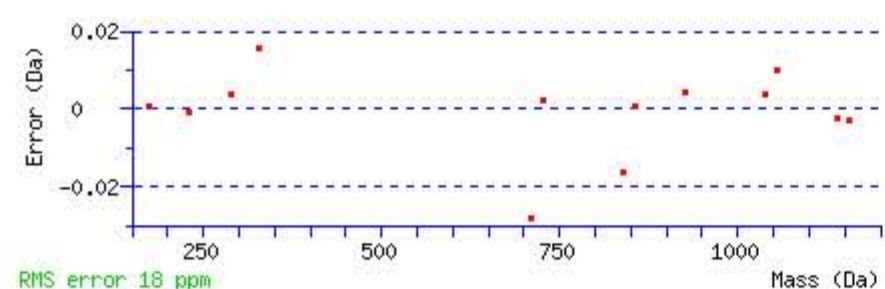
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 43 Expect: 0.00045

Matches : 13/112 fragment ions using 22 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							11
2	<b>230.113533</b>	115.560405	213.086984	107.047130	212.102968	106.555122	Q	1497.784225	749.395751	1480.757676	740.882476	1479.773660	740.390468	10
3	<b>329.181947</b>	165.094612	312.155398	156.581337	311.171382	156.089329	V	1369.725647	685.366462	1352.699098	676.853187	1351.715082	676.361179	9
4	443.224874	222.116075	426.198325	213.602801	425.214309	213.110793	N	1270.657233	635.832255	1253.630684	627.318980	1252.646668	626.826972	8
5	544.272553	272.639915	527.246004	264.126640	526.261988	263.634632	T	<b>1156.614306</b>	578.810791	1139.587757	570.297517	<b>1138.603741</b>	569.805509	7
6	672.331131	336.669204	655.304582	328.155929	654.320566	327.663921	Q	<b>1055.566627</b>	528.286951	<b>1038.540078</b>	519.773677	1037.556062	519.281669	6
7	743.368245	372.187761	726.341696	363.674486	725.357680	363.182478	A	<b>927.508049</b>	464.257663	910.481500	455.744388	909.497484	455.252380	5
8	872.410838	436.709057	855.384289	428.195783	854.400273	427.703775	E	<b>856.470935</b>	428.739106	839.444386	420.225831	<b>838.460370</b>	419.733823	4
9	1311.636164	656.321720	1294.609615	647.808446	1293.625599	647.316438	Q	<b>727.428342</b>	364.217809	<b>710.401793</b>	355.704535			3
10	1424.720228	712.863752	1407.693679	704.350478	1406.709663	703.858470	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
11							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [TQVNTQAEQLR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
42.6	1597.824615	-0.008943	<a href="#">TQVNTQAEQLR</a>
9.6	1597.824615	-0.008943	<a href="#">TQVNTQAEQLR</a>
6.7	1597.835846	-0.020174	<a href="#">TKAAATAGGQGAAR</a>
6.3	1597.828629	-0.012957	<a href="#">AWDILSGEQLR</a>
2.4	1597.797440	0.018232	<a href="#">RYSHGGTSWRVHR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SLAPYAQDTQEK**

Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 32905: 1660.811428 from(831.412990,2+) rtinseconds(1758) index(30321)

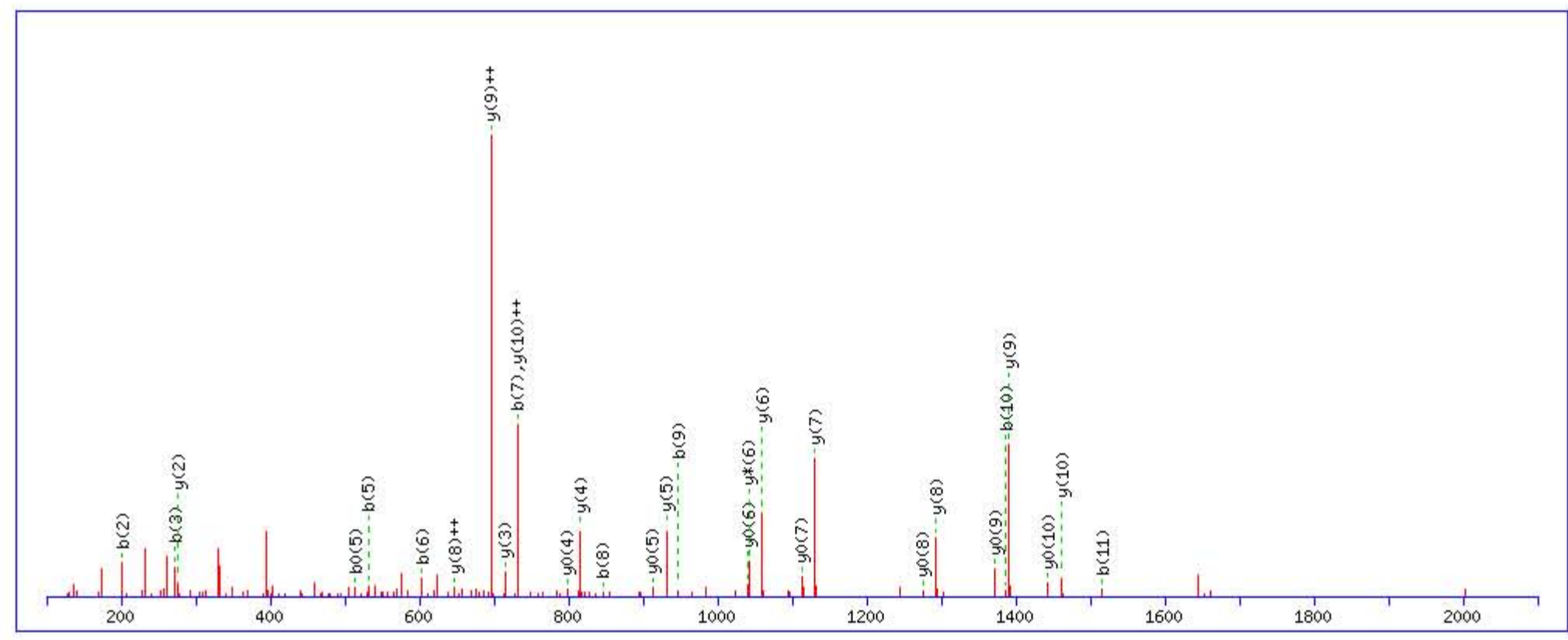
Title: Locus:1.1.1.3275.19 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1660.813034

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

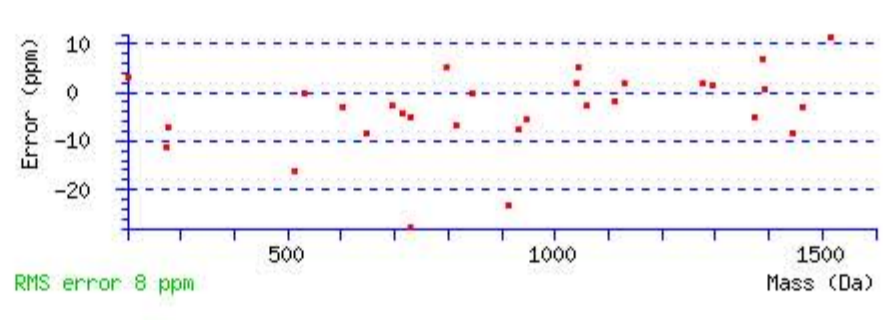
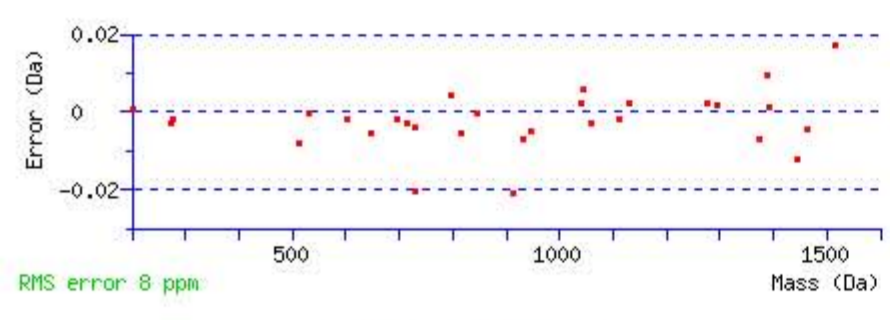
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 51 Expect: 8e-005

Matches : 30/118 fragment ions using 56 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							12
2	<b>201.123368</b>	101.065322			183.112803	92.060039	L	1574.788308	787.897792	1557.761759	779.384518	1556.777743	778.892510	11
3	<b>272.160482</b>	136.583879			254.149917	127.578596	A	<b>1461.704244</b>	<b>731.355760</b>	1444.677695	722.842486	<b>1443.693679</b>	722.350478	10
4	369.213246	185.110261			351.202681	176.104978	P	<b>1390.667130</b>	<b>695.837203</b>	1373.640581	687.323929	<b>1372.656565</b>	686.831921	9
5	<b>532.276575</b>	266.641926			<b>514.266010</b>	257.636643	Y	<b>1293.614366</b>	<b>647.310821</b>	1276.587817	638.797547	<b>1275.603801</b>	638.305539	8
6	<b>603.313689</b>	302.160483			585.303124	293.155200	A	<b>1130.551037</b>	565.779157	1113.524488	557.265882	<b>1112.540472</b>	556.773874	7
7	<b>731.372267</b>	366.189772	714.345718	357.676497	713.361702	357.184489	Q	<b>1059.513923</b>	530.260600	<b>1042.487374</b>	521.747325	<b>1041.503358</b>	521.255317	6
8	<b>846.399210</b>	423.703243	829.372661	415.189969	828.388645	414.697961	D	<b>931.455345</b>	466.231311	914.428796	457.718036	<b>913.444780</b>	457.226028	5
9	<b>947.446889</b>	474.227083	930.420340	465.713808	929.436324	465.221800	T	<b>816.428402</b>	408.717839	799.401853	400.204565	<b>798.417837</b>	399.712557	4
10	<b>1386.672215</b>	693.839746	1369.645666	685.326471	1368.661650	684.834463	Q	<b>715.380723</b>	358.194000	698.354174	349.680725	697.370158	349.188717	3
11	<b>1515.714808</b>	758.361042	1498.688259	749.847768	1497.704243	749.355760	E	<b>276.155397</b>	138.581337	259.128848	130.068062	258.144832	129.576054	2
12							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **SLAPYAQDTQEK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
51.2	1660.813034	-0.001606	<a href="#">SLAPYAQDTQEK</a>
27.2	1660.813034	-0.001606	<a href="#">SLAPYAQDTQEK</a>
7.3	1660.826782	-0.015354	<a href="#">EAATQAQQTLGSTIDK</a>
7.1	1660.820908	-0.009480	<a href="#">SLARAGFYITGVNDK</a>
2.5	1660.813019	-0.001591	<a href="#">EAALMAEFDNPNIK</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **LGEVNTYAGDLQK**

Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 33995: 1717.866628 from(859.940590,2+) rtinseconds(2013) index(19147)

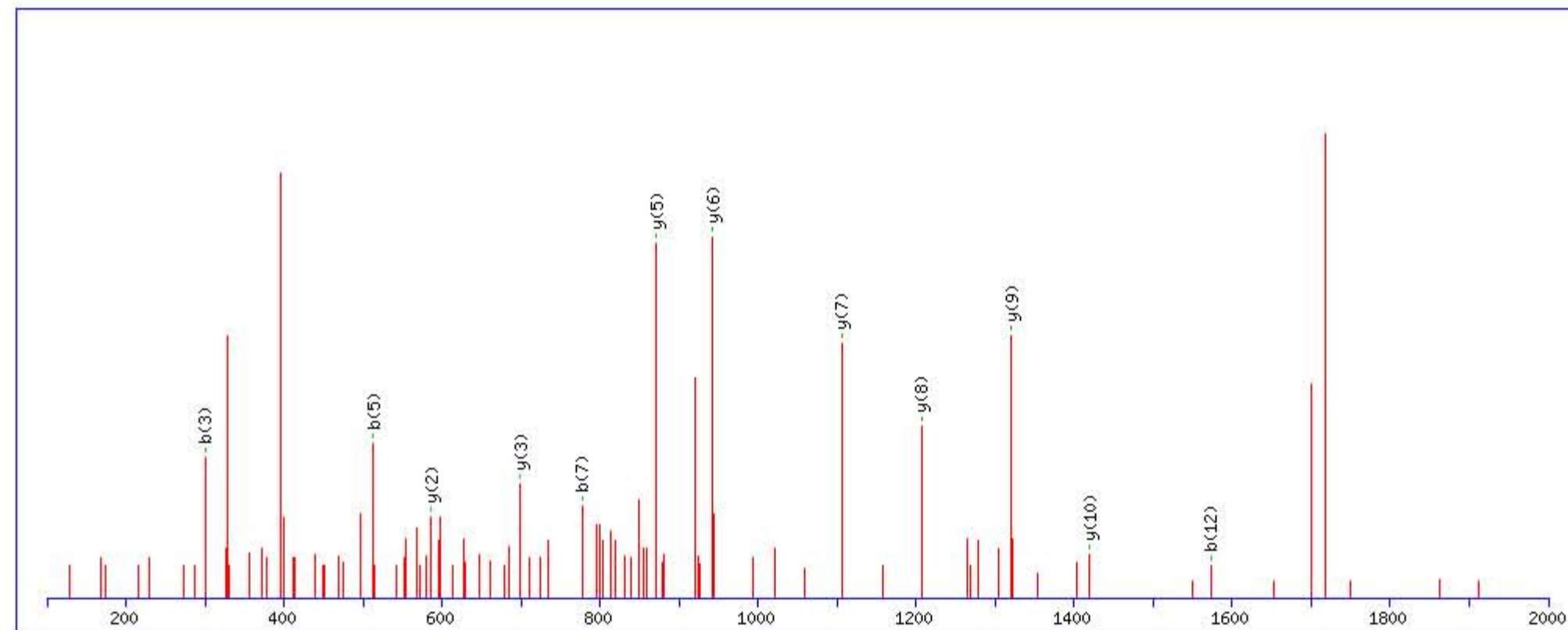
Title: Locus:1.1.1.3266.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1717.870895

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

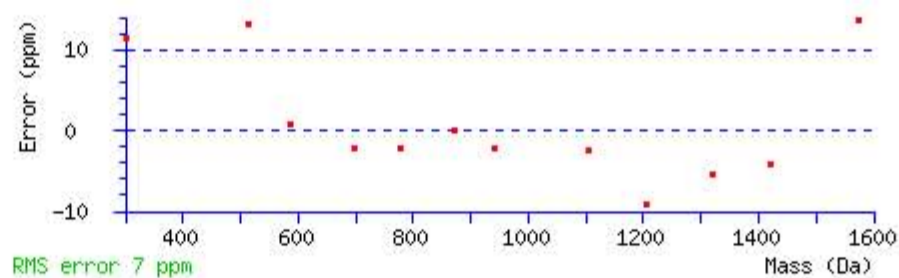
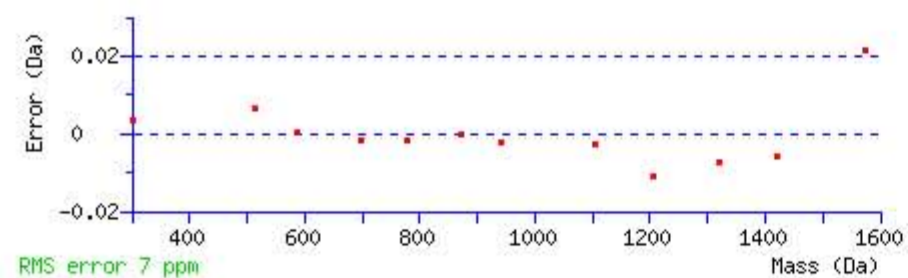
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 69 Expect: 3e-006

Matches : 12/126 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							13
2	171.112804	86.060040					G	1605.794121	803.400699	1588.767572	794.887424	1587.783556	794.395416	12
3	<b>300.155397</b>	150.581336			282.144832	141.576054	E	1548.772657	774.889967	1531.746108	766.376692	1530.762092	765.884684	11
4	399.223811	200.115544			381.213246	191.110261	V	<b>1419.730064</b>	710.368670	1402.703515	701.855396	1401.719499	701.363388	10
5	<b>513.266738</b>	257.137007	496.240189	248.623733	495.256173	248.131725	N	<b>1320.661650</b>	660.834463	1303.635101	652.321189	1302.651085	651.829181	9
6	614.314417	307.660847	597.287868	299.147572	596.303852	298.655564	T	<b>1206.618723</b>	603.813000	1189.592174	595.299725	1188.608158	594.807717	8
7	<b>777.377746</b>	389.192511	760.351197	380.679237	759.367181	380.187229	Y	<b>1105.571044</b>	553.289160	1088.544495	544.775886	1087.560479	544.283878	7
8	848.414860	424.711068	831.388311	416.197794	830.404295	415.705786	A	<b>942.507715</b>	471.757496	925.481166	463.244221	924.497150	462.752213	6
9	905.436324	453.221800	888.409775	444.708526	887.425759	444.216518	G	<b>871.470601</b>	436.238939	854.444052	427.725664	853.460036	427.233656	5
10	1020.463267	510.735272	1003.436718	502.221997	1002.452702	501.729989	D	814.449137	407.728207	797.422588	399.214932	796.438572	398.722924	4
11	1133.547331	567.277304	1116.520782	558.764029	1115.536766	558.272021	L	<b>699.422194</b>	350.214735	682.395645	341.701461			3
12	<b>1572.772657</b>	786.889967	1555.746108	778.376692	1554.762092	777.884684	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
13							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LGEVNTYAGDLQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
69.4	1717.870895	-0.004267	<a href="#">LGEVNTYAGDLQK</a>
10.3	1717.866867	-0.000239	<a href="#">IDAVNAETIREVCTK</a>
1.6	1717.878754	-0.012126	<a href="#">IDAWAWNTTPYQLAR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **ALVQQMEQLR**

Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 36409: 1836.980232 from(613.334020,3+) rtinseconds(2353) index(62445)

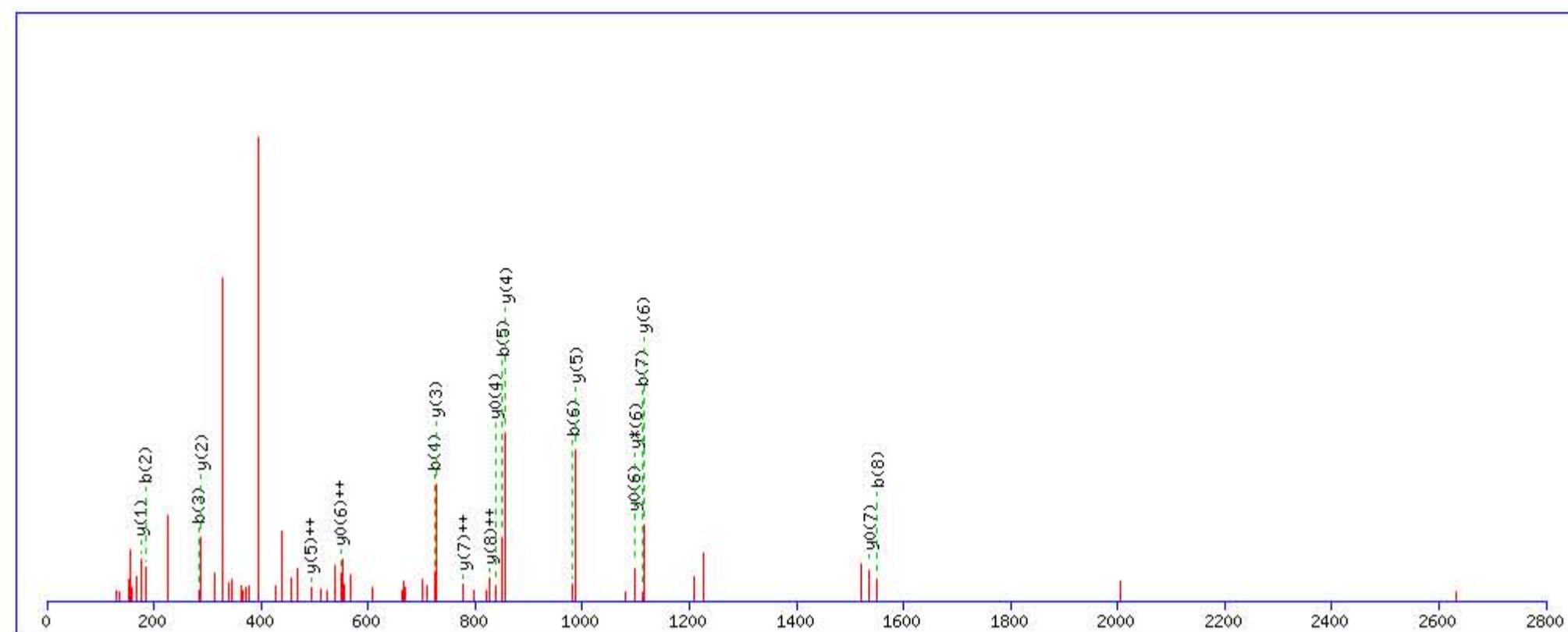
Title: Locus:1.1.1.1731.3 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1836.977615

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

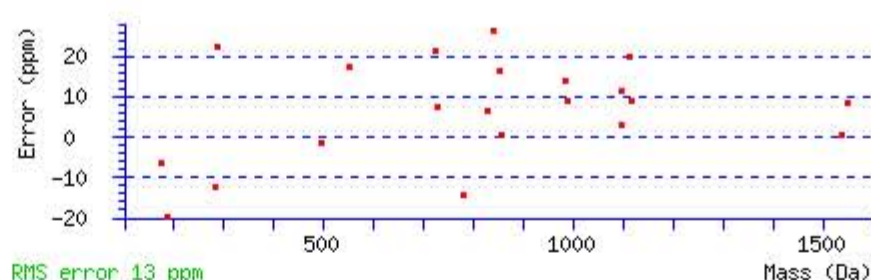
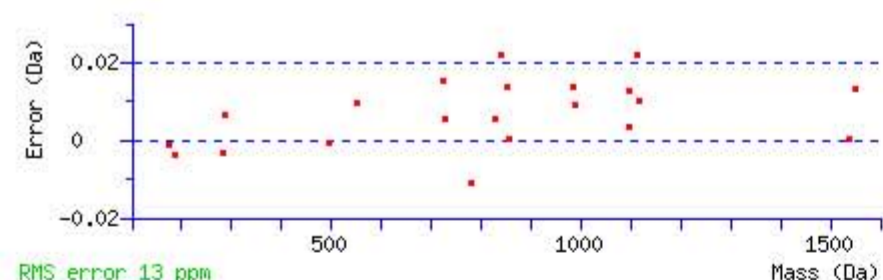
Q4 : Biotin:Thermo-21345 (Q)

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 29 Expect: 0.019

Matches : 21/84 fragment ions using 43 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							10
2	<b>185.128454</b>	93.067865					L	1766.947802	883.977539	1749.921253	875.464265	1748.937237	874.972256	9
3	<b>284.196868</b>	142.602072					V	1653.863738	<b>827.435507</b>	1636.837189	818.922232	1635.853173	818.430224	8
4	<b>723.422194</b>	362.214735	706.395645	353.701461			Q	1554.795324	<b>777.901300</b>	1537.768775	769.388026	<b>1536.784759</b>	768.896017	7
5	<b>851.480772</b>	426.244024	834.454223	417.730750			Q	<b>1115.569998</b>	558.288637	<b>1098.543449</b>	549.775363	<b>1097.559433</b>	<b>549.283354</b>	6
6	<b>982.521257</b>	491.764267	965.494708	483.250992			M	<b>987.511420</b>	<b>494.259348</b>	970.484871	485.746073	969.500855	485.254065	5
7	<b>1111.563850</b>	556.285563	1094.537301	547.772289	1093.553285	547.280281	E	<b>856.470935</b>	428.739105	839.444386	420.225831	<b>838.460370</b>	419.733823	4
8	<b>1550.789176</b>	775.898226	1533.762627	767.384952	1532.778611	766.892944	Q	<b>727.428342</b>	364.217809	710.401793	355.704534			3
9	1663.873240	832.440258	1646.846691	823.926984	1645.862675	823.434975	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
10							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **ALVQQMEQLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
29.0	1836.977615	0.002617	<a href="#">ALVQQMEQLR</a>
19.4	1836.977615	0.002617	<a href="#">ALVQQMEQLR</a>
10.0	1836.999207	-0.018975	<a href="#">QQSLQRQLEQLR</a>
5.8	1837.004578	-0.024346	<a href="#">RHSWRQQIFLR</a>
2.2	1836.977615	0.002617	<a href="#">ALVQQMEQLR</a>
0.1	1836.958984	0.021248	<a href="#">ALTEQQEQLR</a>
0.1	1836.958984	0.021248	<a href="#">ALTEQQEQLR</a>



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **LNHQLEGLTFQMK**

Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 37009: 1868.960952 from(623.994260,3+) rtinseconds(2172) index(32869)

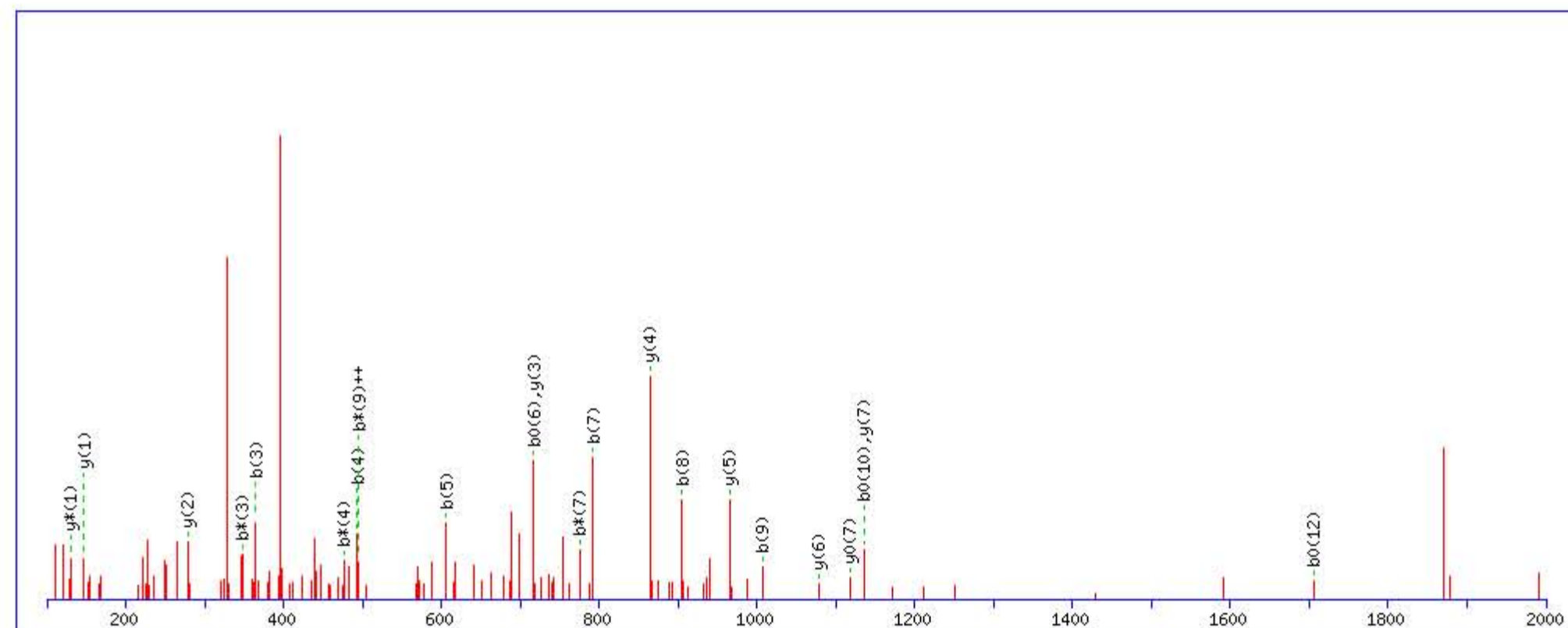
Title: Locus:1.1.1.3420.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1868.964081

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

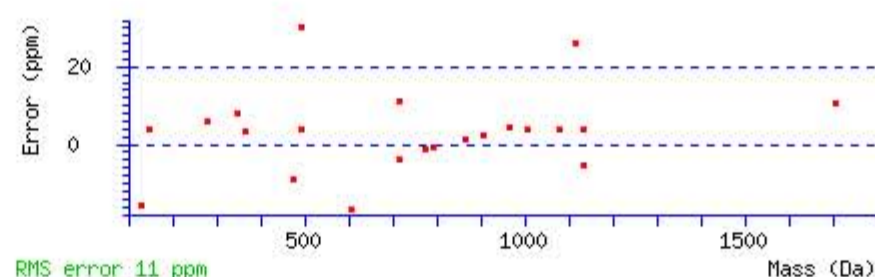
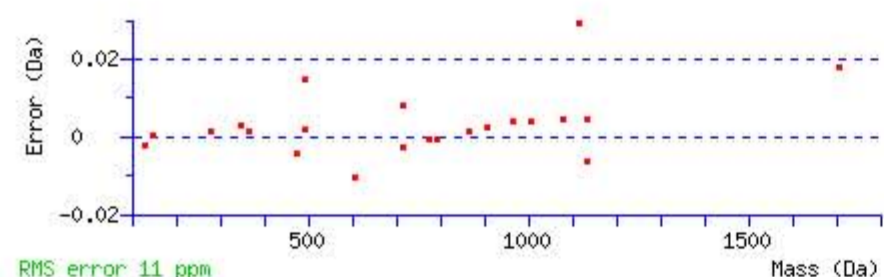
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.015

Matches : 22/124 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							13
2	228.134267	114.570771	211.107718	106.057497			N	1756.887310	878.947293	1739.860761	870.434019	1738.876745	869.942011	12
3	<b>365.193179</b>	183.100227	<b>348.166630</b>	174.586953			H	1642.844383	821.925830	1625.817834	813.412555	1624.833818	812.920547	11
4	<b>493.251757</b>	247.129516	<b>476.225208</b>	238.616242			Q	1505.785471	753.396374	1488.758922	744.883099	1487.774906	744.391091	10
5	<b>606.335821</b>	303.671549	589.309272	295.158274			L	1377.726893	689.367085	1360.700344	680.853810	1359.716328	680.361802	9
6	735.378414	368.192845	718.351865	359.679571	<b>717.367849</b>	359.187563	E	1264.642829	632.825053	1247.616280	624.311778	1246.632264	623.819770	8
7	<b>792.399878</b>	396.703577	<b>775.373329</b>	388.190303	774.389313	387.698295	G	<b>1135.600236</b>	568.303756	1118.573687	559.790482	<b>1117.589671</b>	559.298474	7
8	<b>905.483942</b>	453.245609	888.457393	444.732335	887.473377	444.240327	L	<b>1078.578772</b>	539.793024	1061.552223	531.279750	1060.568207	530.787742	6
9	<b>1006.531621</b>	503.769449	989.505072	<b>495.256174</b>	988.521056	494.764166	T	<b>965.494708</b>	483.250992	948.468159	474.737718	947.484143	474.245710	5
10	1153.600035	577.303656	1136.573486	568.790381	<b>1135.589470</b>	568.298373	F	<b>864.447029</b>	432.727153	847.420480	424.213878			4
11	1592.825361	796.916319	1575.798812	788.403044	1574.814796	787.911036	Q	<b>717.378615</b>	359.192946	700.352066	350.679671			3
12	1723.865846	862.436561	1706.839297	853.923287	<b>1705.855281</b>	853.431279	M	<b>278.153289</b>	139.580282	261.126740	131.067008			2
13							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **LNHQLEGLTFQMK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
32.4	1868.964081	-0.003129	<a href="#">LNHQLEGLTFQMK</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **TQVNTQAEQLR**

Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 37579: 1908.985362 from(637.335730,3+) rtinseconds(1949) index(31461)

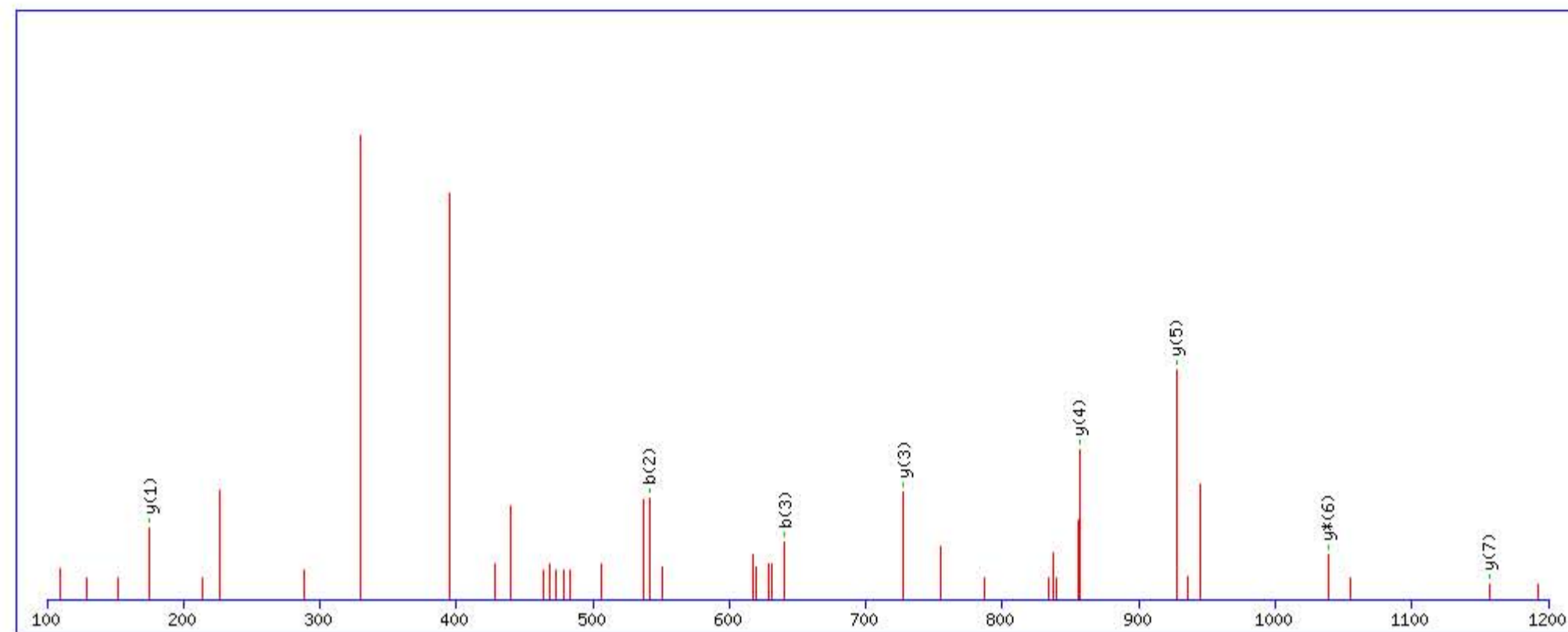
Title: Locus:1.1.1.3342.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1908.991364

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

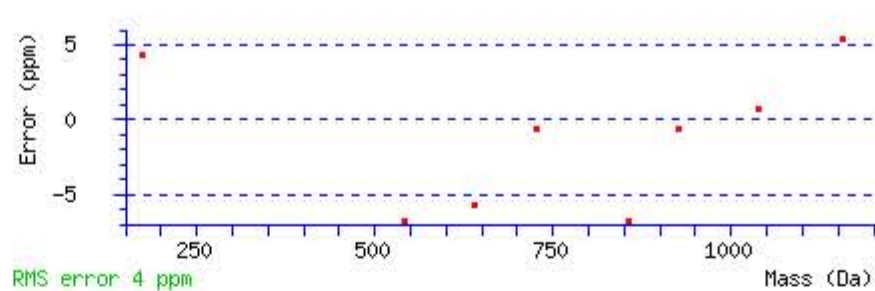
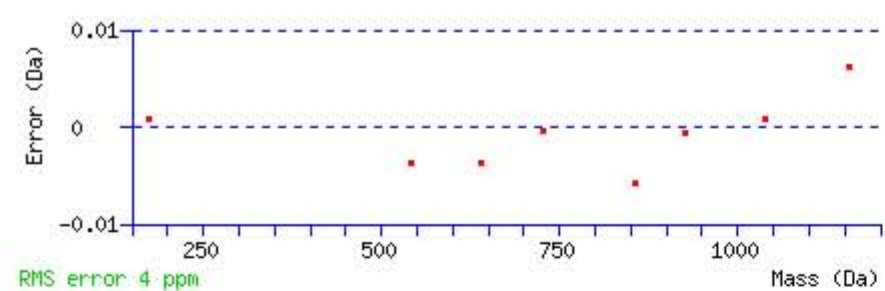
Q2 : Biotin:Thermo-21345 (Q)

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 30 Expect: 0.0027

Matches : 8/112 fragment ions using 11 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							11
2	<b>541.280281</b>	271.143779	524.253732	262.630504	523.269716	262.138496	Q	1808.950973	904.979125	1791.924424	896.465850	1790.940408	895.973842	10
3	<b>640.348695</b>	320.677986	623.322146	312.164711	622.338130	311.672703	V	1369.725647	685.366462	1352.699098	676.853187	1351.715082	676.361179	9
4	754.391622	377.699449	737.365073	369.186174	736.381057	368.694166	N	1270.657233	635.832255	1253.630684	627.318980	1252.646668	626.826972	8
5	855.439301	428.223289	838.412752	419.710014	837.428736	419.218006	T	<b>1156.614306</b>	578.810791	1139.587757	570.297517	1138.603741	569.805509	7
6	983.497879	492.252578	966.471330	483.739303	965.487314	483.247295	Q	1055.566627	528.286952	<b>1038.540078</b>	519.773677	1037.556062	519.281669	6
7	1054.534993	527.771135	1037.508444	519.257860	1036.524428	518.765852	A	<b>927.508049</b>	464.257663	910.481500	455.744388	909.497484	455.252380	5
8	1183.577586	592.292431	1166.551037	583.779157	1165.567021	583.287149	E	<b>856.470935</b>	428.739106	839.444386	420.225831	838.460370	419.733823	4
9	1622.802912	811.905094	1605.776363	803.391820	1604.792347	802.899812	Q	<b>727.428342</b>	364.217809	710.401793	355.704535			3
10	1735.886976	868.447126	1718.860427	859.933852	1717.876411	859.441844	L	288.203016	144.605146	271.176467	136.091871			2
11							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **TQVNTQAEQLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
29.7	1908.991364	-0.006002	<a href="#">TQVNTQAEQLR</a>
15.7	1908.991364	-0.006002	<a href="#">TQVNTQAEQLR</a>
8.3	1908.991364	-0.006002	<a href="#">TQVNTQAEQLR</a>
2.3	1908.974045	0.011317	<a href="#">SAQWAINRVAMEIQHR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **SLAELGGHLDQQVEEFR**

Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 43906: 2238.107292 from(747.043040,3+) rtinseconds(2262) index(33454)

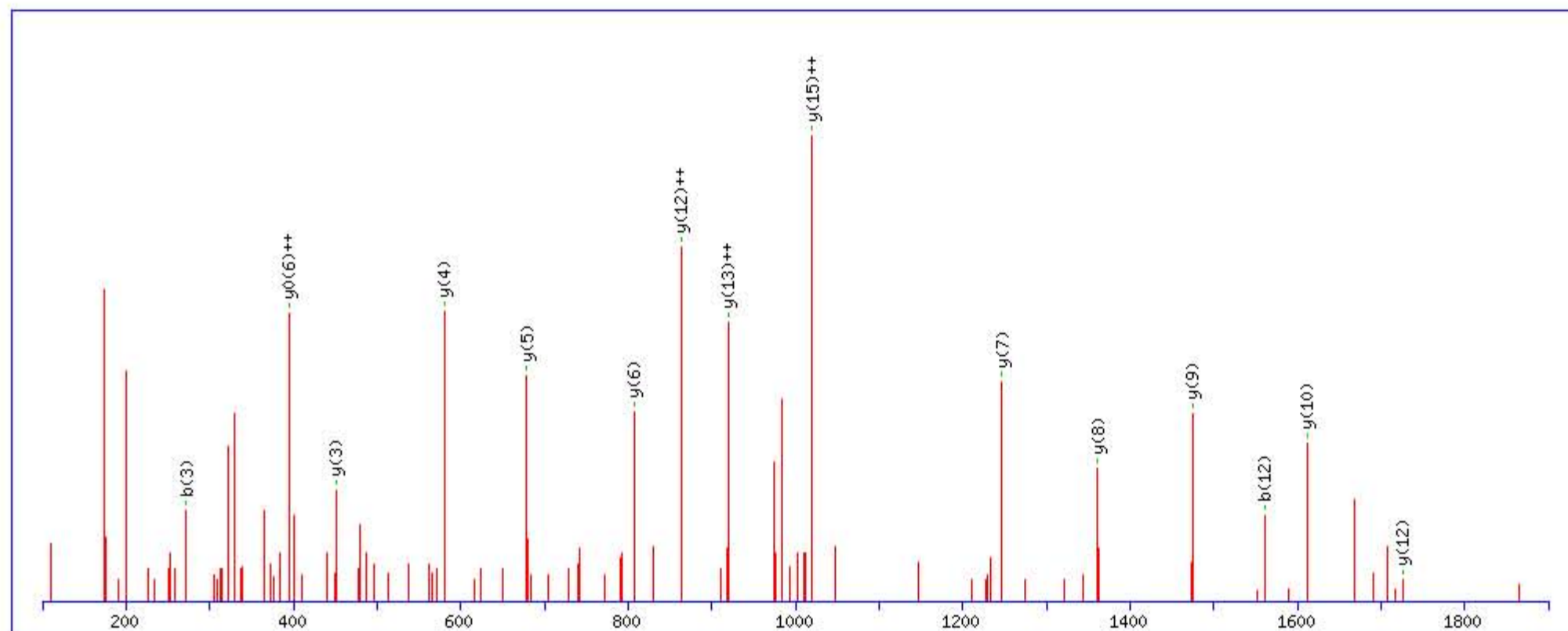
Title: Locus:1.1.1.3451.19 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2238.110291

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

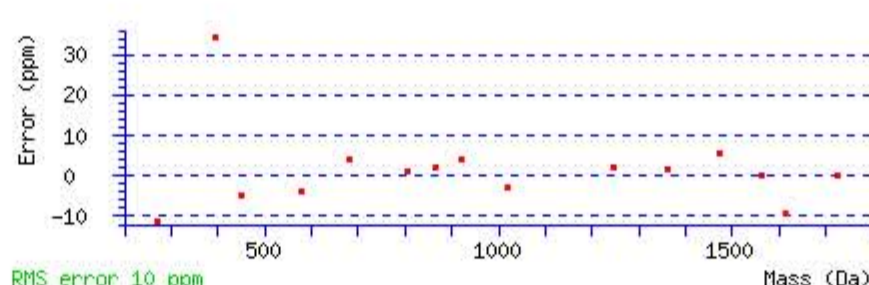
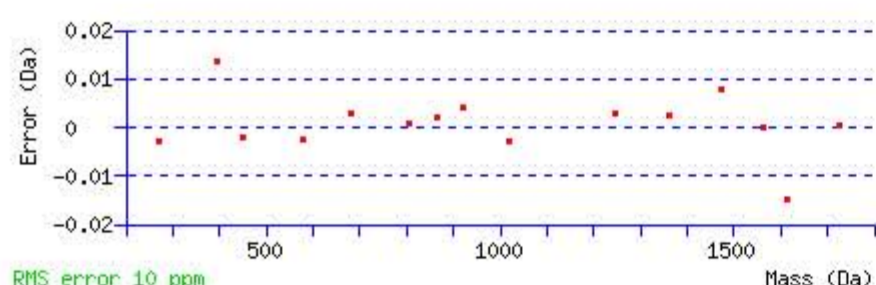
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 72 Expect: 1.6e-006

Matches : 15/168 fragment ions using 18 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							17
2	201.123368	101.065322			183.112803	92.060039	L	2152.085552	1076.546414	2135.059003	1068.033139	2134.074987	1067.541131	16
3	<b>272.160482</b>	136.583879			254.149917	127.578596	A	2039.001488	<b>1020.004382</b>	2021.974939	1011.491108	2020.990923	1010.999100	15
4	401.203075	201.105175			383.192510	192.099893	E	1967.964374	984.485825	1950.937825	975.972551	1949.953809	975.480543	14
5	514.287139	257.647208			496.276574	248.641925	L	1838.921781	<b>919.964529</b>	1821.895232	911.451254	1820.911216	910.959246	13
6	571.308603	286.157940			553.298038	277.152657	G	<b>1725.837717</b>	<b>863.422497</b>	1708.811168	854.909222	1707.827152	854.417214	12
7	628.330067	314.668672			610.319502	305.663389	G	1668.816253	834.911765	1651.789704	826.398490	1650.805688	825.906482	11
8	765.388979	383.198128			747.378414	374.192845	H	<b>1611.794789</b>	806.401033	1594.768240	797.887758	1593.784224	797.395750	10
9	878.473043	439.740160			860.462478	430.734877	L	<b>1474.735877</b>	737.871577	1457.709328	729.358302	1456.725312	728.866294	9
10	993.499986	497.253631			975.489421	488.248349	D	<b>1361.651813</b>	681.329545	1344.625264	672.816270	1343.641248	672.324262	8
11	1432.725312	716.866294	1415.698763	708.353020	1414.714747	707.861012	Q	<b>1246.624870</b>	623.816073	1229.598321	615.302799	1228.614305	614.810791	7
12	<b>1560.783890</b>	780.895583	1543.757341	772.382309	1542.773325	771.890301	Q	<b>807.399544</b>	404.203410	790.372995	395.690136	789.388979	<b>395.198128</b>	6
13	1659.852304	830.429790	1642.825755	821.916516	1641.841739	821.424508	V	<b>679.340966</b>	340.174121	662.314417	331.660846	661.330401	331.168838	5
14	1788.894897	894.951087	1771.868348	886.437812	1770.884332	885.945804	E	<b>580.272552</b>	290.639914	563.246003	282.126639	562.261987	281.634631	4
15	1917.937490	959.472383	1900.910941	950.959109	1899.926925	950.467101	E	<b>451.229959</b>	226.118617	434.203410	217.605343	433.219394	217.113335	3
16	2065.005904	1033.006590	2047.979355	1024.493316	2046.995339	1024.001307	F	322.187366	161.597321	305.160817	153.084046			2
17							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [SLAELGGHLDQQVEEFR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
72.3	2238.110291	-0.002999	<a href="#">SLAELGGHLDQQVEEFR</a>
54.5	2238.110291	-0.002999	<a href="#">SLAELGGHLDQQVEEFR</a>

**MASCOT** **SCIENCE** Mascot Search Results

Peptide View

MS/MS Fragmentation of **ENADSLQASLRPHADELK**

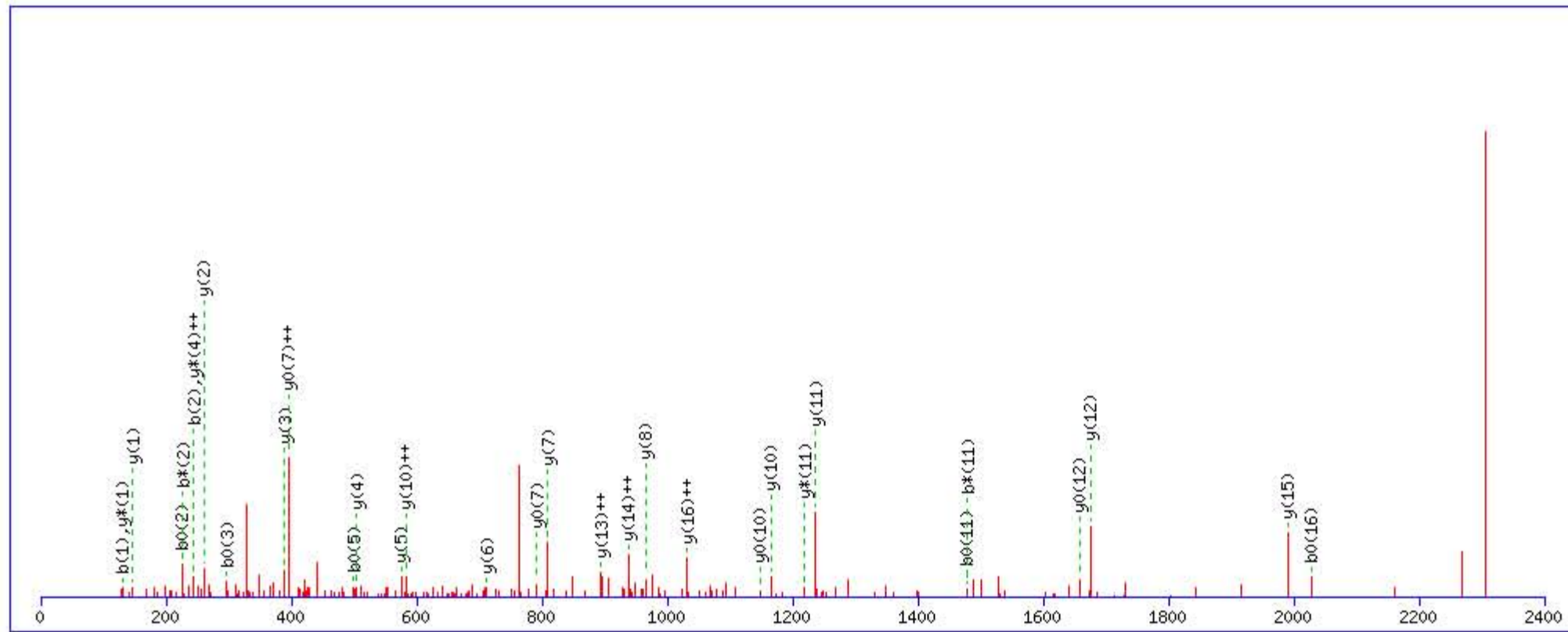
Found in **APOA4\_HUMAN**, Apolipoprotein A-IV OS=Homo sapiens GN=APOA4 PE=1 SV=3

Match to Query 45156: 2304.165372 from(769.062400,3+) rtinseconds(1904) index(59894)  
 Title: Locus:1.1.1.1574.17 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

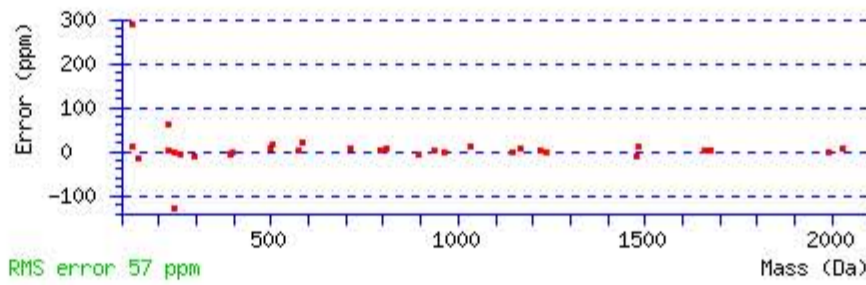
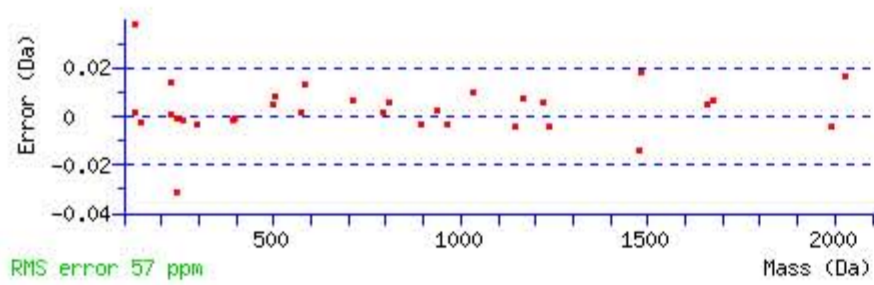
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2304.153183  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q7 : Biotin:Thermo-21345 (Q)  
 Ions Score: 40 Expect: 0.0026  
 Matches : 32/198 fragment ions using 90 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							18
2	244.092796	122.550036	227.066247	114.036762	226.082231	113.544754	N	2176.117913	1088.562594	2159.091364	1080.049320	2158.107348	1079.557312	17
3	315.129910	158.068593	298.103361	149.555319	297.119345	149.063311	A	2062.074986	1031.541131	2045.048437	1023.027856	2044.064421	1022.535848	16
4	430.156853	215.582065	413.130304	207.068790	412.146288	206.576782	D	1991.037872	996.022574	1974.011323	987.509300	1973.027307	987.017292	15
5	517.188881	259.098079	500.162332	250.584804	499.178316	250.092796	S	1876.010929	938.509103	1858.984380	929.995828	1858.000364	929.503820	14
6	630.272945	315.640111	613.246396	307.126836	612.262380	306.634828	L	1788.978901	894.993089	1771.952352	886.479814	1770.968336	885.987806	13
7	1069.498271	535.252774	1052.471722	526.739499	1051.487706	526.247491	Q	1675.894837	838.451057	1658.868288	829.937782	1657.884272	829.445774	12
8	1140.535385	570.771331	1123.508836	562.258056	1122.524820	561.766048	A	1236.669511	618.838394	1219.642962	610.325119	1218.658946	609.833111	11
9	1227.567413	614.287345	1210.540864	605.774070	1209.556848	605.282062	S	1165.632397	583.319837	1148.605848	574.806562	1147.621832	574.314554	10
10	1340.651477	670.829377	1323.624928	662.316102	1322.640912	661.824094	L	1078.600369	539.803823	1061.573820	531.290548	1060.589804	530.798540	9
11	1496.752588	748.879932	1479.726039	740.366658	1478.742023	739.874650	R	965.516305	483.261791	948.489756	474.748516	947.505740	474.256508	8
12	1593.805352	797.406314	1576.778803	788.893040	1575.794787	788.401032	P	809.415194	405.211235	792.388645	396.697961	791.404629	396.205953	7
13	1730.864264	865.935770	1713.837715	857.422496	1712.853699	856.930488	H	712.362430	356.684853	695.335881	348.171579	694.351865	347.679571	6
14	1801.901378	901.454327	1784.874829	892.941053	1783.890813	892.449045	A	575.303518	288.155397	558.276969	279.642123	557.292953	279.150115	5
15	1916.928321	958.967799	1899.901772	950.454524	1898.917756	949.962516	D	504.266404	252.636840	487.239855	244.123566	486.255839	243.631558	4
16	2045.970914	1023.489095	2028.944365	1014.975821	2027.960349	1014.483813	E	389.239461	195.123369	372.212912	186.610094	371.228896	186.118086	3
17	2159.054978	1080.031127	2142.028429	1071.517852	2141.044413	1071.025844	L	260.196868	130.602072	243.170319	122.088798			2
18							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [ENADSLQASLRPHADELK](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
40.4	2304.153183	0.012189	<a href="#">ENADSLQASLRPHADELK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QSELSAK**

Found in **APOC1\_HUMAN**, Apolipoprotein C-I OS=Homo sapiens GN=APOC1 PE=1 SV=1

Match to Query 13355: 1072.552048 from(537.283300,2+) rtinseconds(1456) index(57702)

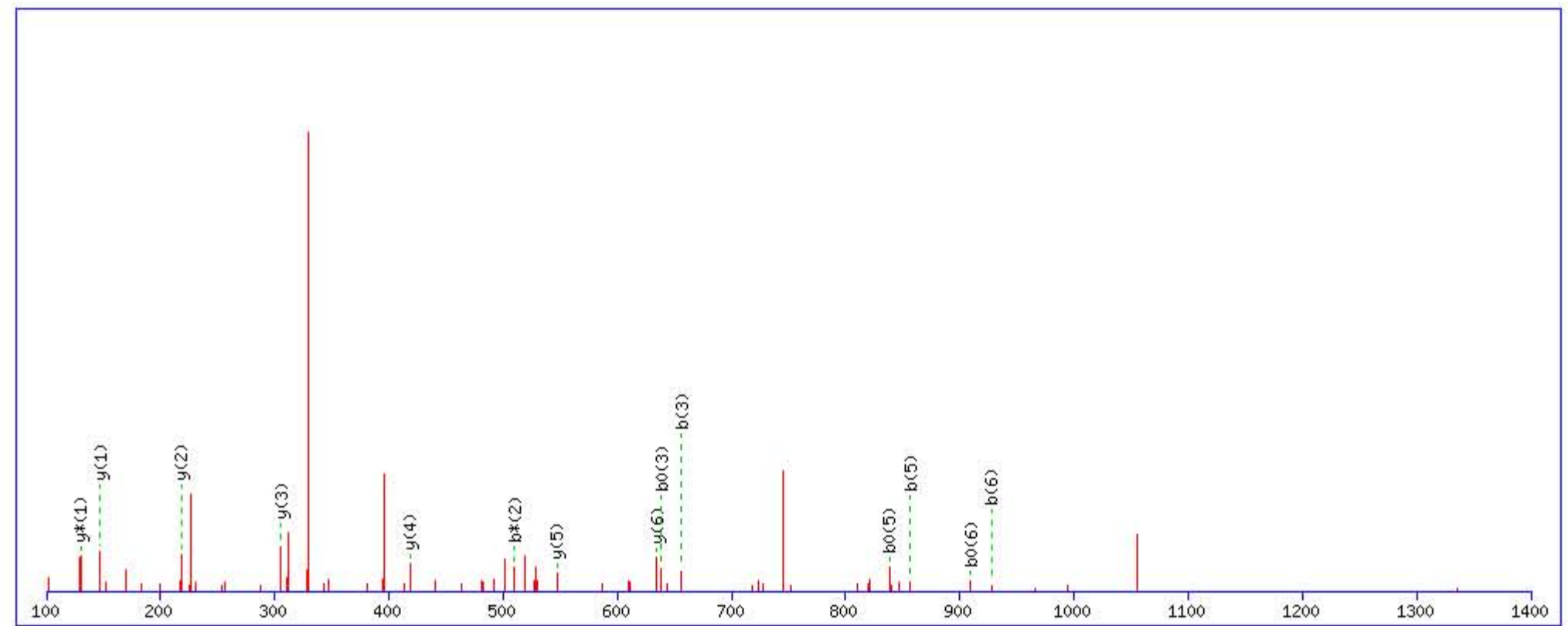
Title: Locus:1.1.1.1418.7 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1072.558655

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

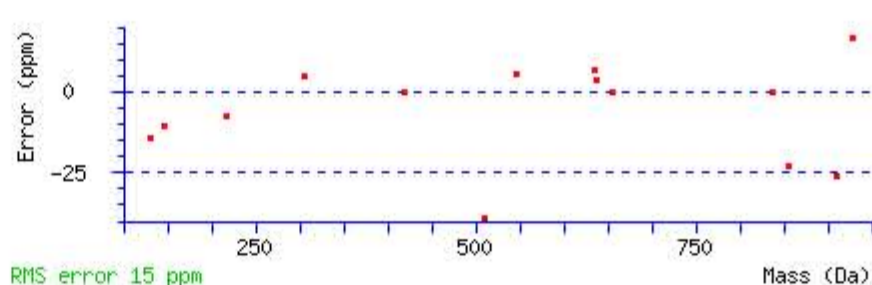
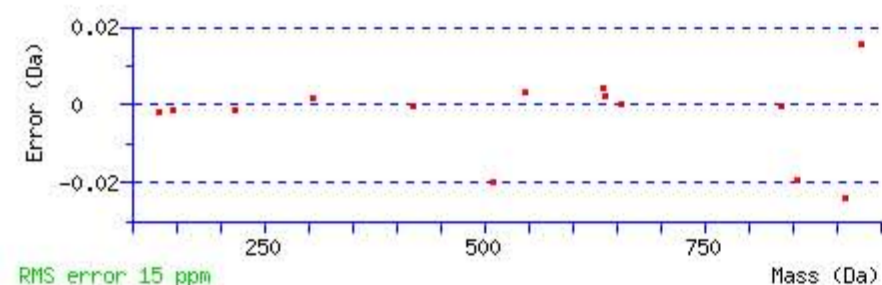
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 27 Expect: 0.05

Matches : 14/66 fragment ions using 37 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							7
2	527.264630	264.135953	510.238081	255.622679	509.254065	255.130671	S	634.340631	317.673954	617.314082	309.160679	616.330066	308.668671	6
3	656.307223	328.657250	639.280674	320.143975	638.296658	319.651967	E	547.308603	274.157940	530.282054	265.644665	529.298038	265.152657	5
4	769.391287	385.199282	752.364738	376.686007	751.380722	376.193999	L	418.266010	209.636643	401.239461	201.123368	400.255445	200.631360	4
5	856.423315	428.715296	839.396766	420.202021	838.412750	419.710013	S	305.181946	153.094611	288.155397	144.581336	287.171381	144.089328	3
6	927.460429	464.233853	910.433880	455.720578	909.449864	455.228570	A	218.149918	109.578597	201.123369	101.065322			2
7							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **QSELSAK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
26.8	1072.558655	-0.006607	<a href="#">QSELSAK</a>
16.3	1072.562500	-0.010452	<a href="#">HSSTSSRIAK</a>
12.9	1072.544739	0.007309	<a href="#">RPGQAAGMSAK</a>
12.0	1072.551254	0.000794	<a href="#">KEAPRDETK</a>
9.9	1072.551239	0.000809	<a href="#">ERQEALEAK</a>
9.1	1072.551285	0.000763	<a href="#">TVQQVNQEK</a>
8.2	1072.558655	-0.006607	<a href="#">QSLSAEK</a>
7.3	1072.558670	-0.006622	<a href="#">QSEGLTK</a>
6.1	1072.551239	0.000809	<a href="#">EAERELQAK</a>
5.8	1072.540039	0.012009	<a href="#">VSQVESPEAK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **TAAQNLYEK**

Found in **APOC2\_HUMAN**, Apolipoprotein C-II OS=Homo sapiens GN=APOC2 PE=1 SV=1

Match to Query 21287: 1347.675288 from(674.844920,2+) rtinseconds(1667) index(43965)

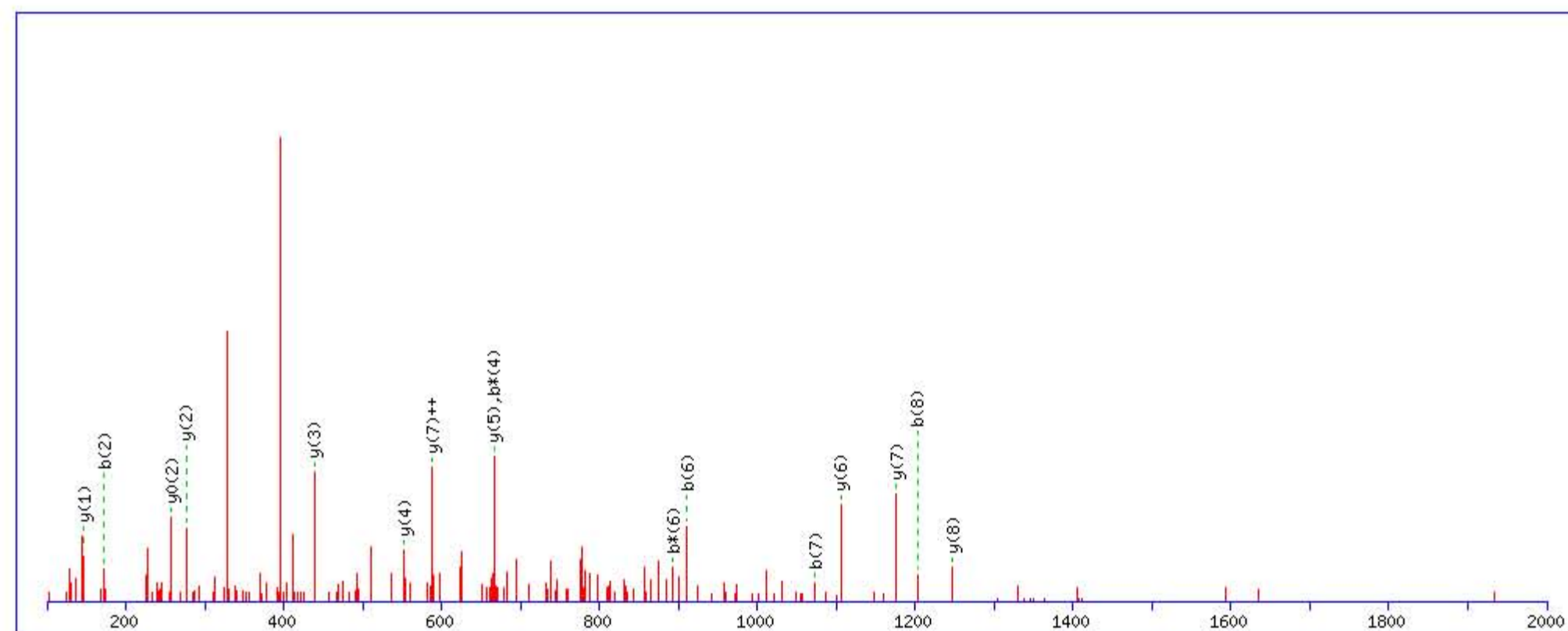
Title: Locus:1.1.1.3293.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1347.685638

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

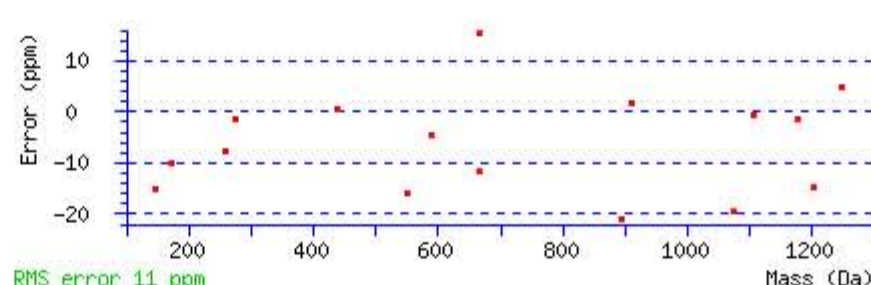
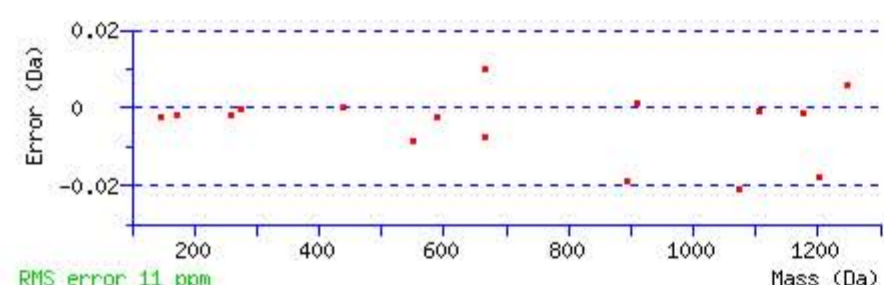
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 37 Expect: 0.0011

Matches : 16/88 fragment ions using 38 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							9
2	<b>173.092069</b>	87.049672			155.081504	78.044390	A	<b>1247.645271</b>	624.326273	1230.618722	615.812999	1229.634706	615.320991	8
3	244.129183	122.568229			226.118618	113.562947	A	<b>1176.608157</b>	<b>588.807716</b>	1159.581608	580.294442	1158.597592	579.802434	7
4	683.354509	342.180893	<b>666.327960</b>	333.667618	665.343944	333.175610	Q	<b>1105.571043</b>	553.289159	1088.544494	544.775885	1087.560478	544.283877	6
5	797.397436	399.202356	780.370887	390.689081	779.386871	390.197073	N	<b>666.345717</b>	333.676496	649.319168	325.163222	648.335152	324.671214	5
6	<b>910.481500</b>	455.744388	<b>893.454951</b>	447.231113	892.470935	446.739105	L	<b>552.302790</b>	276.655033	535.276241	268.141758	534.292225	267.649750	4
7	<b>1073.544829</b>	537.276052	1056.518280	528.762778	1055.534264	528.270770	Y	<b>439.218726</b>	220.113001	422.192177	211.599726	421.208161	211.107718	3
8	<b>1202.587422</b>	601.797349	1185.560873	593.284074	1184.576857	592.792066	E	<b>276.155397</b>	138.581336	259.128848	130.068062	<b>258.144832</b>	129.576054	2
9							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **TAAQNLYEK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
36.5	1347.685638	-0.010350	<a href="#">TAAQNLYEK</a>
4.6	1347.682297	-0.007009	<a href="#">TAYFSLDTRFK</a>
4.3	1347.681610	-0.006322	<a href="#">RSQISMEQLEK</a>
2.4	1347.681641	-0.006353	<a href="#">QDMIVRTTQEK</a>
2.4	1347.656464	0.018824	<a href="#">TALLNMDRENK</a>
2.0	1347.660522	0.014766	<a href="#">GDILPNPCHTPK</a>
1.5	1347.688156	-0.012868	<a href="#">LLSQDSVAASTEK</a>
1.3	1347.667053	0.008235	<a href="#">EPEPPGVVGGPGEK</a>
1.2	1347.664536	0.010752	<a href="#">QFWSNVEK</a>
0.6	1347.682480	-0.007192	<a href="#">QSRMKMEK</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **STAAMSTYTGIFTDQVLSVLK**

Found in **APOC2\_HUMAN**, Apolipoprotein C-II OS=Homo sapiens GN=APOC2 PE=1 SV=1

Match to Query 48992: 2543.300082 from(848.773970,3+) rtinseconds(3253) index(39529)

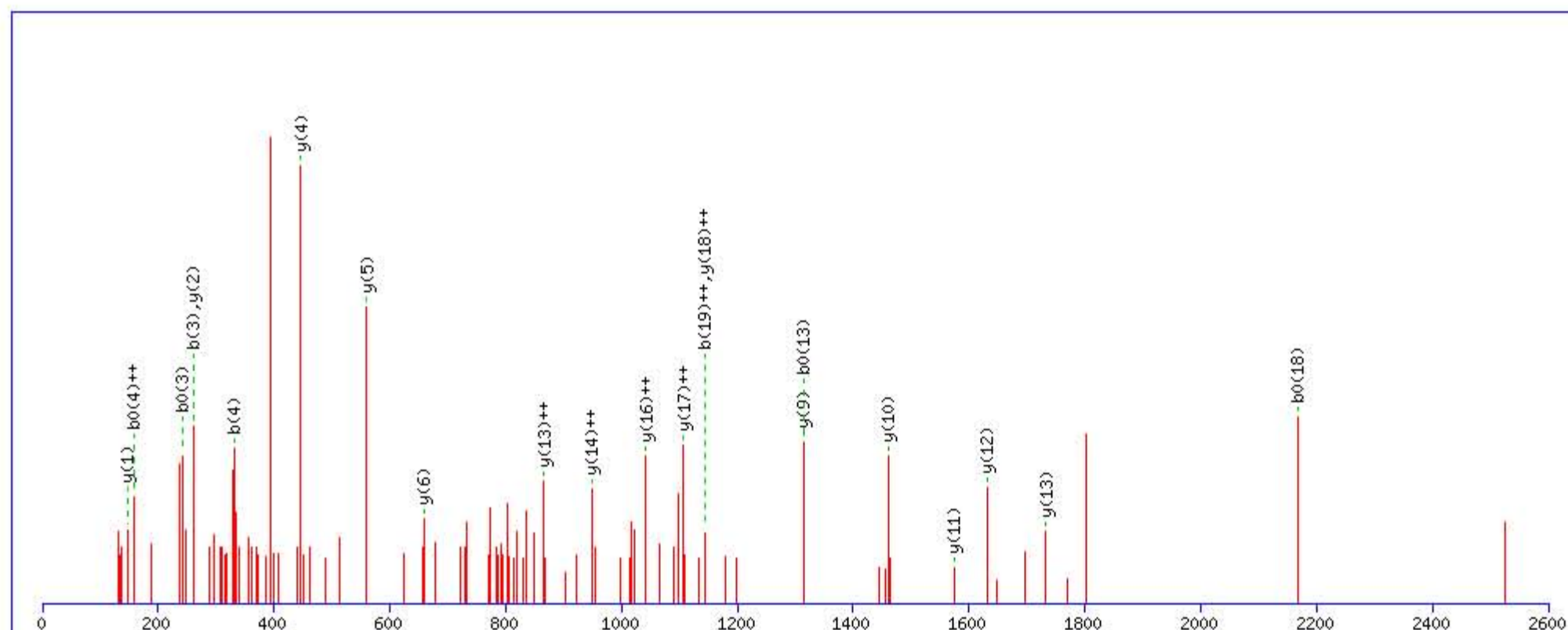
Title: Locus:1.1.1.3791.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 0 to 2600 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2543.301544

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

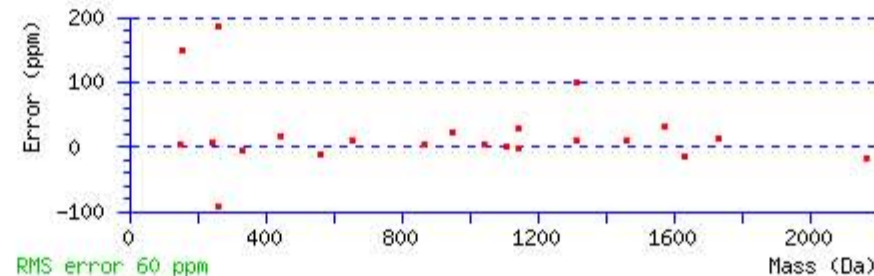
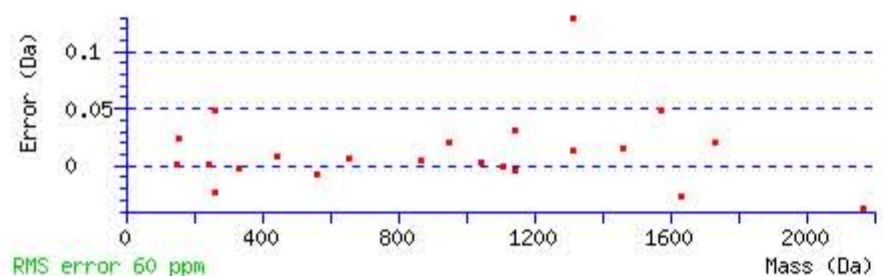
Variable modifications:

Q15 : Biotin:Thermo-21345 (Q)

Ions Score: 60 Expect: 2.8e-005

Matches : 22/206 fragment ions using 33 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							21
2	189.086983	95.047129			171.076418	86.041847	T	2457.276785	1229.142030	2440.250236	1220.628756	2439.266220	1220.136748	20
3	<b>260.124097</b>	130.565686			<b>242.113532</b>	121.560404	A	2356.229106	1178.618191	2339.202557	1170.104916	2338.218541	1169.612908	19
4	<b>331.161211</b>	166.084243			313.150646	<b>157.078961</b>	A	2285.191992	<b>1143.099634</b>	2268.165443	1134.586359	2267.181427	1134.094351	18
5	462.201696	231.604486			444.191131	222.599203	M	2214.154878	<b>1107.581077</b>	2197.128329	1099.067802	2196.144313	1098.575794	17
6	549.233724	275.120500			531.223159	266.115217	S	2083.114393	<b>1042.060834</b>	2066.087844	1033.547560	2065.103828	1033.055552	16
7	650.281403	325.644340			632.270838	316.639057	T	1996.082365	998.544821	1979.055816	990.031546	1978.071800	989.539538	15
8	813.344732	407.176004			795.334167	398.170722	Y	1895.034686	<b>948.020981</b>	1878.008137	939.507707	1877.024121	939.015699	14
9	914.392411	457.699844			896.381846	448.694561	T	<b>1731.971357</b>	<b>866.489317</b>	1714.944808	857.976042	1713.960792	857.484034	13
10	971.413875	486.210576			953.403310	477.205293	G	<b>1630.923678</b>	815.965477	1613.897129	807.452203	1612.913113	806.960195	12
11	1084.497939	542.752608			1066.487374	533.747325	I	<b>1573.902214</b>	787.454745	1556.875665	778.941471	1555.891649	778.449463	11
12	1231.566353	616.286815			1213.555788	607.281532	F	<b>1460.818150</b>	730.912713	1443.791601	722.399439	1442.807585	721.907431	10
13	1332.614032	666.810654			<b>1314.603467</b>	657.805372	T	<b>1313.749736</b>	657.378506	1296.723187	648.865232	1295.739171	648.373224	9
14	1447.640975	724.324126			1429.630410	715.318843	D	1212.702057	606.854667	1195.675508	598.341392	1194.691492	597.849384	8
15	1886.866301	943.936789	1869.839752	935.423514	1868.855736	934.931506	Q	1097.675114	549.341195	1080.648565	540.827921	1079.664549	540.335913	7
16	1985.934715	993.470996	1968.908166	984.957721	1967.924150	984.465713	V	<b>658.449788</b>	329.728532	641.423239	321.215258	640.439223	320.723250	6
17	2099.018779	1050.013027	2081.992230	1041.499753	2081.008214	1041.007745	L	<b>559.381374</b>	280.194325	542.354825	271.681051	541.370809	271.189043	5
18	2186.050807	1093.529041	2169.024258	1085.015767	<b>2168.040242</b>	1084.523759	S	<b>446.297310</b>	223.652293	429.270761	215.139019	428.286745	214.647011	4
19	2285.119221	<b>1143.063248</b>	2268.092672	1134.549974	2267.108656	1134.057966	V	359.265282	180.136279	342.238733	171.623004			3
20	2398.203285	1199.605280	2381.176736	1191.092006	2380.192720	1190.599998	L	<b>260.196868</b>	130.602072	243.170319	122.088798			2
21							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [STAAMSTYTGIFTDQVLSVLK](#)  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
60.4	2543.301544	-0.001462	<a href="#">STAAMSTYTGIFTDQVLSVLK</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **DALSSVQESQVAQQAR**

Found in **APOC3\_HUMAN**, Apolipoprotein C-III OS=Homo sapiens GN=APOC3 PE=1 SV=1

Match to Query 40302: 2027.001882 from(676.674570,3+) rtinseconds(1906) index(18367)

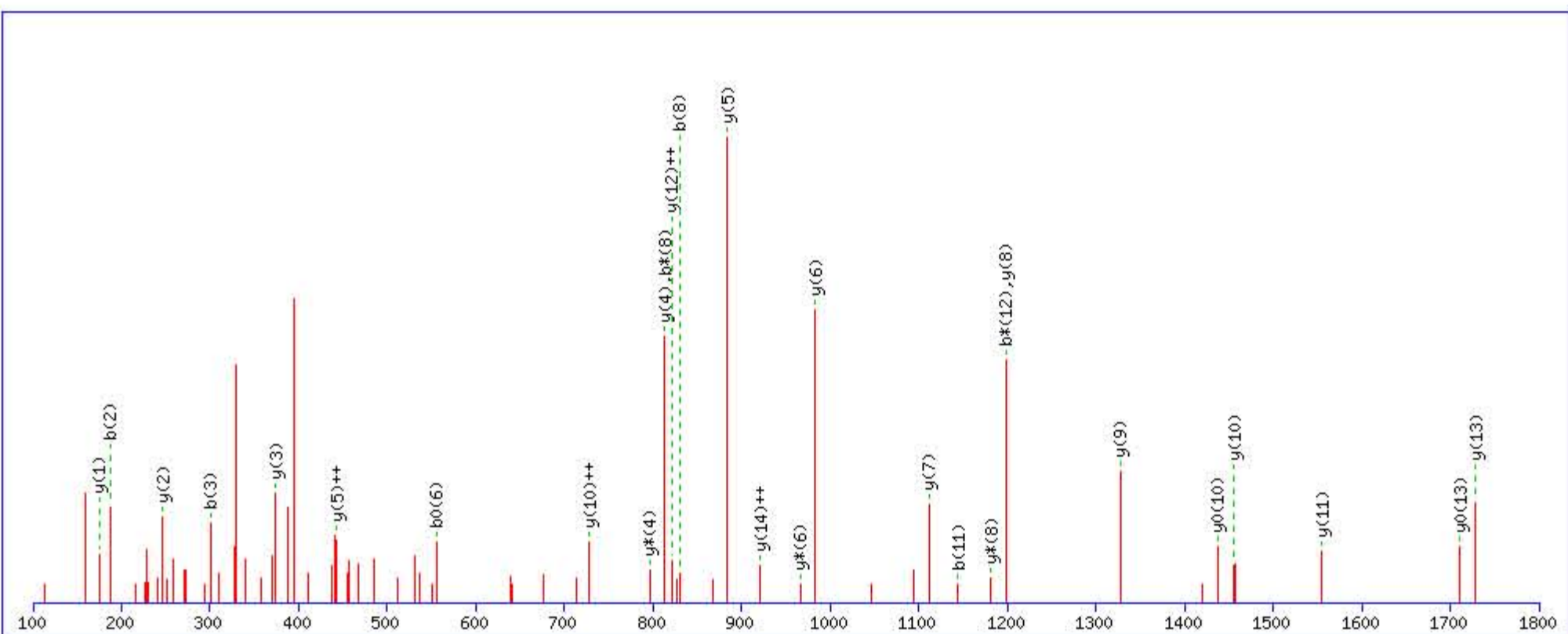
Title: Locus:1.1.1.3229.19 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 100 to 1800 Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2027.010574

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

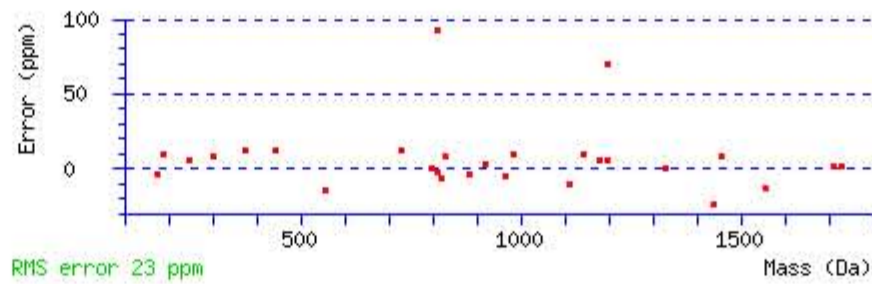
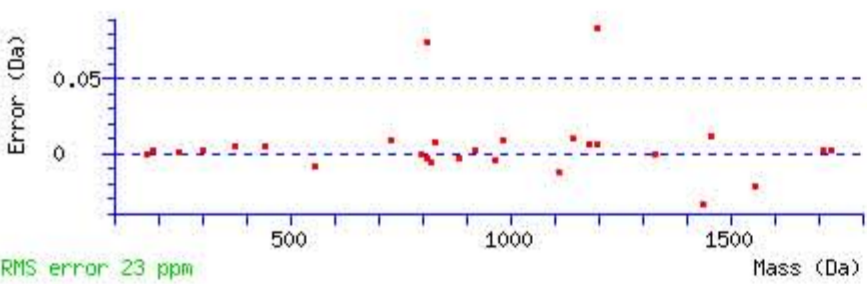
Variable modifications:

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 85 Expect: 1.4e-008

Matches : 28/154 fragment ions using 41 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							16
2	<b>187.071333</b>	94.039304			169.060768	85.034022	A	1912.990923	956.999100	1895.964374	948.485825	1894.980358	947.993817	15
3	<b>300.155397</b>	150.581336			282.144832	141.576054	L	1841.953809	<b>921.480543</b>	1824.927260	912.967268	1823.943244	912.475260	14
4	387.187425	194.097351			369.176860	185.092068	S	<b>1728.869745</b>	864.938511	1711.843196	856.425236	<b>1710.859180</b>	855.933228	13
5	474.219453	237.613364			456.208888	228.608082	S	1641.837717	<b>821.422497</b>	1624.811168	812.909222	1623.827152	812.417214	12
6	573.287867	287.147572			<b>555.277302</b>	278.142289	V	<b>1554.805689</b>	777.906483	1537.779140	769.393208	1536.795124	768.901200	11
7	701.346445	351.176861	684.319896	342.663586	683.335880	342.171578	Q	<b>1455.737275</b>	<b>728.372276</b>	1438.710726	719.859001	<b>1437.726710</b>	719.366993	10
8	<b>830.389038</b>	415.698157	<b>813.362489</b>	407.184883	812.378473	406.692875	E	<b>1327.678697</b>	664.342987	1310.652148	655.829712	1309.668132	655.337704	9
9	917.421066	459.214171	900.394517	450.700897	899.410501	450.208889	S	<b>1198.636104</b>	599.821690	<b>1181.609555</b>	591.308416	1180.625539	590.816408	8
10	1045.479644	523.243460	1028.453095	514.730186	1027.469079	514.238178	Q	<b>1111.604076</b>	556.305676	1094.577527	547.792402			7
11	<b>1144.548058</b>	572.777667	1127.521509	564.264393	1126.537493	563.772385	V	<b>983.545498</b>	492.276387	<b>966.518949</b>	483.763113			6
12	1215.585172	608.296224	<b>1198.558623</b>	599.782950	1197.574607	599.290942	A	<b>884.477084</b>	<b>442.742180</b>	867.450535	434.228906			5
13	1654.810498	827.908887	1637.783949	819.395613	1636.799933	818.903605	Q	<b>813.439970</b>	407.223623	<b>796.413421</b>	398.710349			4
14	1782.869076	891.938176	1765.842527	883.424902	1764.858511	882.932894	Q	<b>374.214644</b>	187.610960	357.188095	179.097686			3
15	1853.906190	927.456733	1836.879641	918.943459	1835.895625	918.451451	A	<b>246.156066</b>	123.581671	229.129517	115.068396			2
16							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **DALSSVQESQVAQQAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
84.9	2027.010574	-0.008692	<a href="#">DALSSVQESQVAQQAR</a>
71.9	2027.010574	-0.008692	<a href="#">DALSSVQESQVAQQAR</a>
44.4	2027.010574	-0.008692	<a href="#">DALSSVQESQVAQQAR</a>
13.6	2027.010574	-0.008692	<a href="#">DALSSVQESQVAQQAR</a>
1.1	2027.017960	-0.016078	<a href="#">MFELTLRGMSEALVDKR</a>
0.7	2026.978012	0.023870	<a href="#">AEGAQNQGQKGEQAQNQGKK</a>
0.1	2026.980667	0.021215	<a href="#">LEGAIAEAEQQGEAALNDAK</a>

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



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **DALSSVQESQVAQQAR**

Found in **APOC3\_HUMAN**, Apolipoprotein C-III OS=Homo sapiens GN=APOC3 PE=1 SV=1

Match to Query 40303: 2027.003488 from(1014.509020,2+) rtinseconds(1961) index(18847)

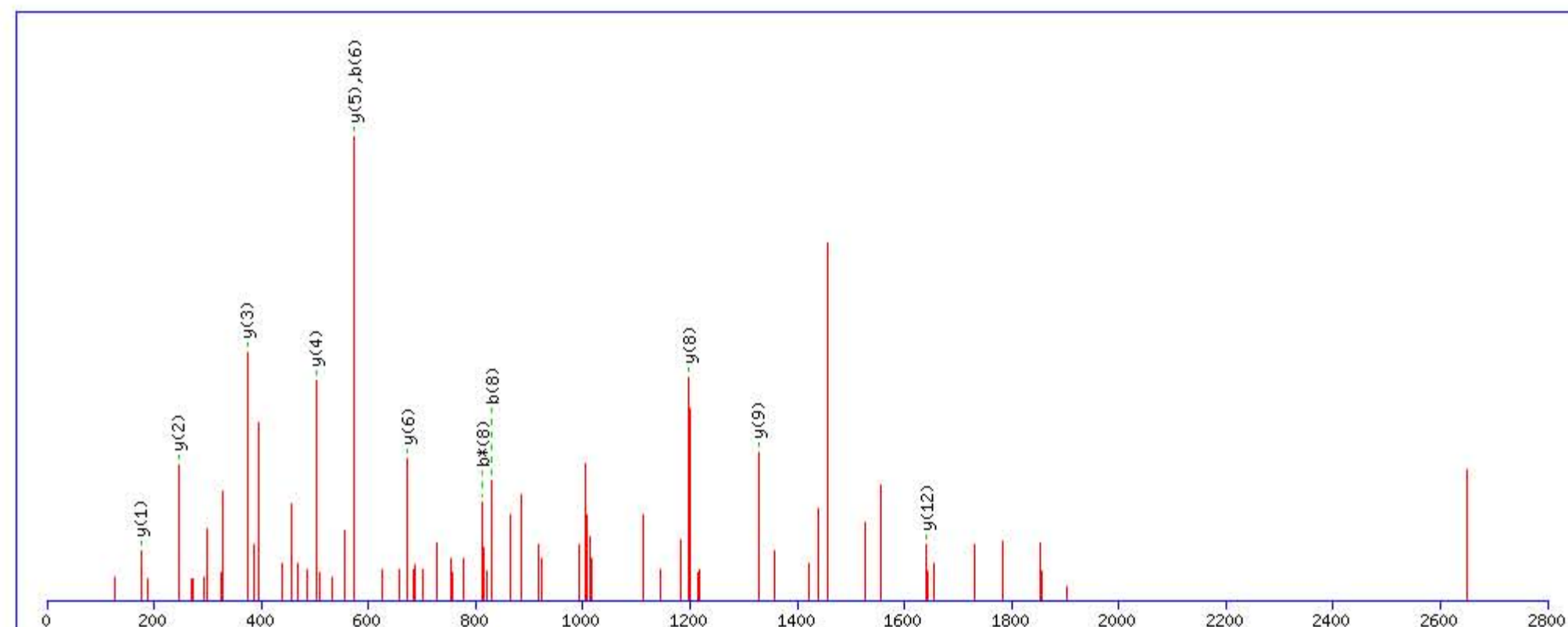
Title: Locus:1.1.1.3248.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2027.010574

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

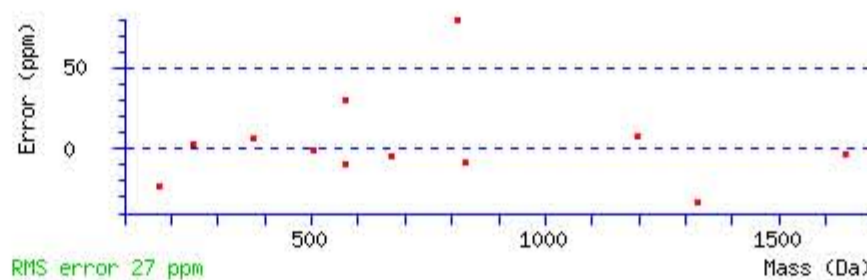
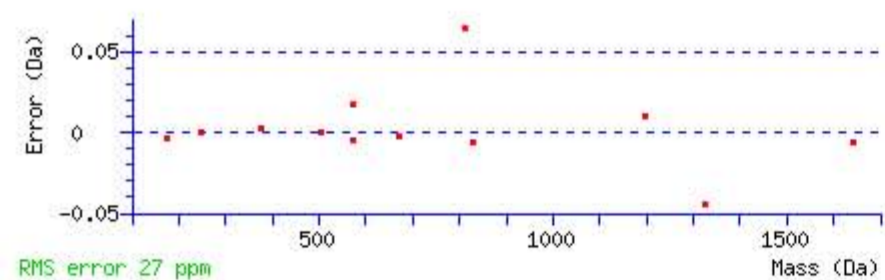
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 66 Expect: 1e-006

Matches : 12/154 fragment ions using 17 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							16
2	187.071333	94.039304			169.060768	85.034022	A	1912.990923	956.999100	1895.964374	948.485825	1894.980358	947.993817	15
3	300.155397	150.581336			282.144832	141.576054	L	1841.953809	921.480543	1824.927260	912.967268	1823.943244	912.475260	14
4	387.187425	194.097351			369.176860	185.092068	S	1728.869745	864.938511	1711.843196	856.425236	1710.859180	855.933228	13
5	474.219453	237.613364			456.208888	228.608082	S	1641.837717	821.422497	1624.811168	812.909222	1623.827152	812.417214	12
6	573.287867	287.147572			555.277302	278.142289	V	1554.805689	777.906483	1537.779140	769.393208	1536.795124	768.901200	11
7	701.346445	351.176861	684.319896	342.663586	683.335880	342.171578	Q	1455.737275	728.372276	1438.710726	719.859001	1437.726710	719.366993	10
8	830.389038	415.698157	813.362489	407.184883	812.378473	406.692875	E	1327.678697	664.342987	1310.652148	655.829712	1309.668132	655.337704	9
9	917.421066	459.214171	900.394517	450.700897	899.410501	450.208889	S	1198.636104	599.821690	1181.609555	591.308416	1180.625539	590.816408	8
10	1356.646392	678.826834	1339.619843	670.313560	1338.635827	669.821551	Q	1111.604076	556.305676	1094.577527	547.792402			7
11	1455.714806	728.361041	1438.688257	719.847767	1437.704241	719.355758	V	672.378750	336.693013	655.352201	328.179739			6
12	1526.751920	763.879598	1509.725371	755.366324	1508.741355	754.874315	A	573.310336	287.158806	556.283787	278.645532			5
13	1654.810498	827.908887	1637.783949	819.395613	1636.799933	818.903605	Q	502.273222	251.640249	485.246673	243.126975			4
14	1782.869076	891.938176	1765.842527	883.424902	1764.858511	882.932894	Q	374.214644	187.610960	357.188095	179.097686			3
15	1853.906190	927.456733	1836.879641	918.943459	1835.895625	918.451451	A	246.156066	123.581671	229.129517	115.068396			2
16							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **DALSSVQESQVAQQAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
66.1	2027.010574	-0.007086	<a href="#">DALSSVQESQVAQQAR</a>
53.1	2027.010574	-0.007086	<a href="#">DALSSVQESQVAQQAR</a>
42.1	2027.010574	-0.007086	<a href="#">DALSSVQESQVAQQAR</a>
33.3	2027.010574	-0.007086	<a href="#">DALSSVQESQVAQQAR</a>
2.1	2026.994827	0.008661	<a href="#">GPHYWITRGFQMGGPPR</a>
1.9	2026.977982	0.025506	<a href="#">QEEREQEQRQALEQAR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **DALSSVQESQVAQQAR**

Found in **APOC3\_HUMAN**, Apolipoprotein C-III OS=Homo sapiens GN=APOC3 PE=1 SV=1

Match to Query 40305: 2027.003562 from(676.675130,3+) rtinseconds(1981) index(31718)

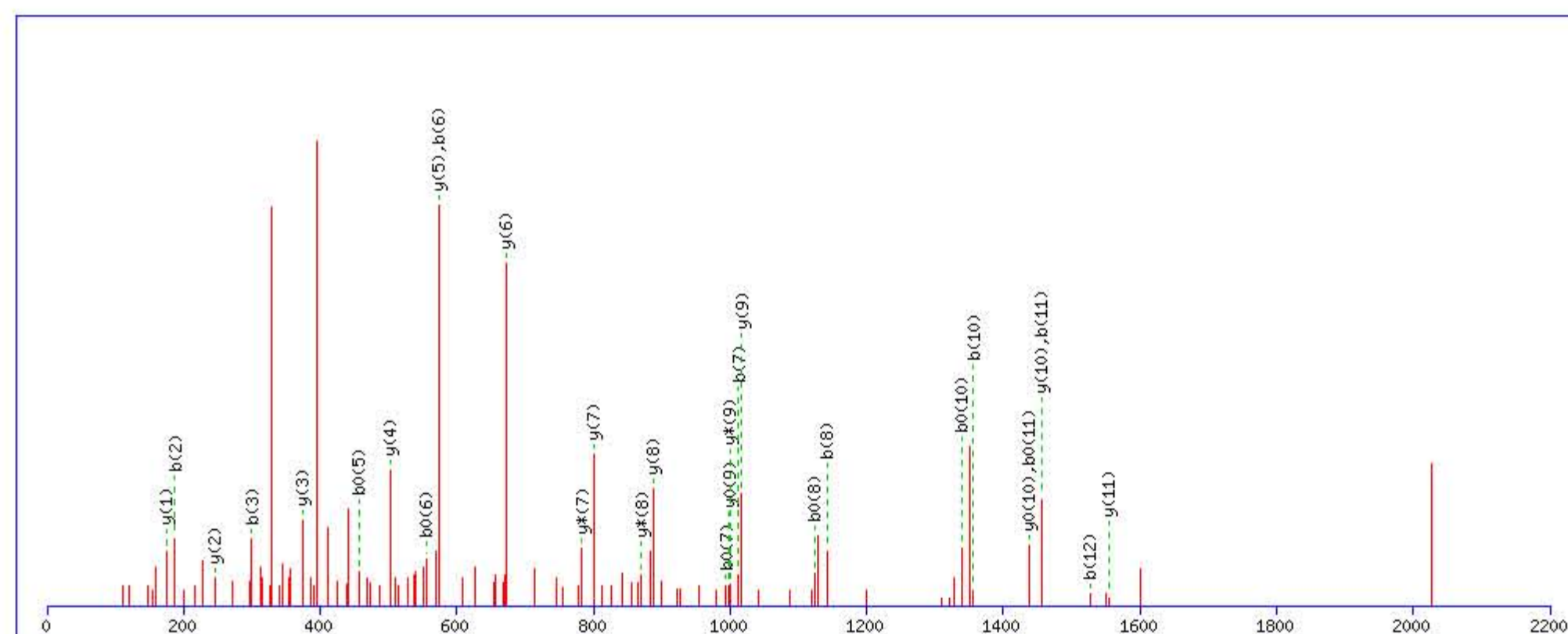
Title: Locus:1.1.1.3353.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2027.010574

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

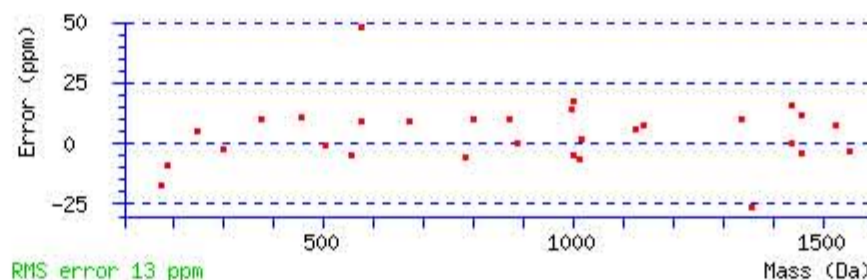
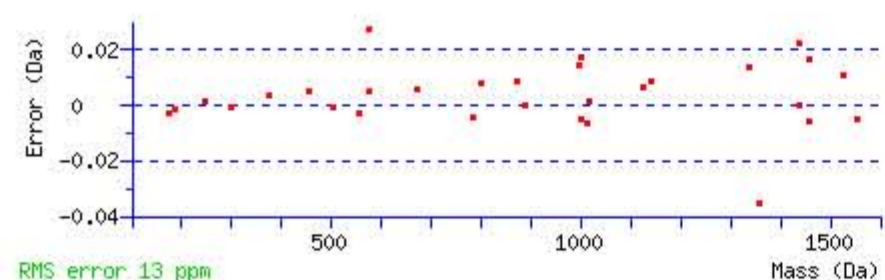
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 57 Expect: 2.2e-005

Matches : 30/154 fragment ions using 55 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							16
2	<b>187.071333</b>	94.039304			169.060768	85.034022	A	1912.990923	956.999100	1895.964374	948.485825	1894.980358	947.993817	15
3	<b>300.155397</b>	150.581336			282.144832	141.576054	L	1841.953809	921.480543	1824.927260	912.967268	1823.943244	912.475260	14
4	387.187425	194.097351			369.176860	185.092068	S	1728.869745	864.938511	1711.843196	856.425236	1710.859180	855.933228	13
5	474.219453	237.613364			<b>456.208888</b>	228.608082	S	1641.837717	821.422497	1624.811168	812.909222	1623.827152	812.417214	12
6	<b>573.287867</b>	287.147572			<b>555.277302</b>	278.142289	V	<b>1554.805689</b>	777.906483	1537.779140	769.393208	1536.795124	768.901200	11
7	<b>1012.513193</b>	506.760235	995.486644	498.246960	<b>994.502628</b>	497.754952	Q	<b>1455.737275</b>	728.372276	1438.710726	719.859001	<b>1437.726710</b>	719.366993	10
8	<b>1141.555786</b>	571.281531	1124.529237	562.768257	<b>1123.545221</b>	562.276249	E	<b>1016.511949</b>	508.759613	<b>999.485400</b>	500.246338	<b>998.501384</b>	499.754330	9
9	1228.587814	614.797545	1211.561265	606.284271	1210.577249	605.792263	S	<b>887.469356</b>	444.238316	<b>870.442807</b>	435.725042	869.458791	435.233034	8
10	<b>1356.646392</b>	678.826834	1339.619843	670.313560	<b>1338.635827</b>	669.821552	Q	<b>800.437328</b>	400.722302	<b>783.410779</b>	392.209028			7
11	<b>1455.714806</b>	728.361041	1438.688257	719.847767	<b>1437.704241</b>	719.355759	V	<b>672.378750</b>	336.693013	655.352201	328.179739			6
12	<b>1526.751920</b>	763.879598	1509.725371	755.366324	1508.741355	754.874316	A	<b>573.310336</b>	287.158806	556.283787	278.645532			5
13	1654.810498	827.908887	1637.783949	819.395613	1636.799933	818.903605	Q	<b>502.273222</b>	251.640249	485.246673	243.126975			4
14	1782.869076	891.938176	1765.842527	883.424902	1764.858511	882.932894	Q	<b>374.214644</b>	187.610960	357.188095	179.097686			3
15	1853.906190	927.456733	1836.879641	918.943459	1835.895625	918.451451	A	<b>246.156066</b>	123.581671	229.129517	115.068396			2
16							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **DALSSVQESQVAQQAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
56.8	2027.010574	-0.007012	<a href="#">DALSSVQESQVAQQAR</a>
32.9	2027.010574	-0.007012	<a href="#">DALSSVQESQVAQQAR</a>
23.2	2027.010574	-0.007012	<a href="#">DALSSVQESQVAQQAR</a>
19.5	2027.010574	-0.007012	<a href="#">DALSSVQESQVAQQAR</a>
6.7	2027.021805	-0.018243	<a href="#">VASVESQSQEISGNRR</a>
3.3	2026.978012	0.025550	<a href="#">AEGAQNQGQKGEQAQNGK</a>
0.5	2026.980667	0.022895	<a href="#">LEGAIAEAEQQGEAALNDAK</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **DALSSVQESQVAQQAR**

Found in **APOC3\_HUMAN**, Apolipoprotein C-III OS=Homo sapiens GN=APOC3 PE=1 SV=1

Match to Query 40311: 2027.005722 from(676.675850,3+) rtinseconds(1961) index(31562)

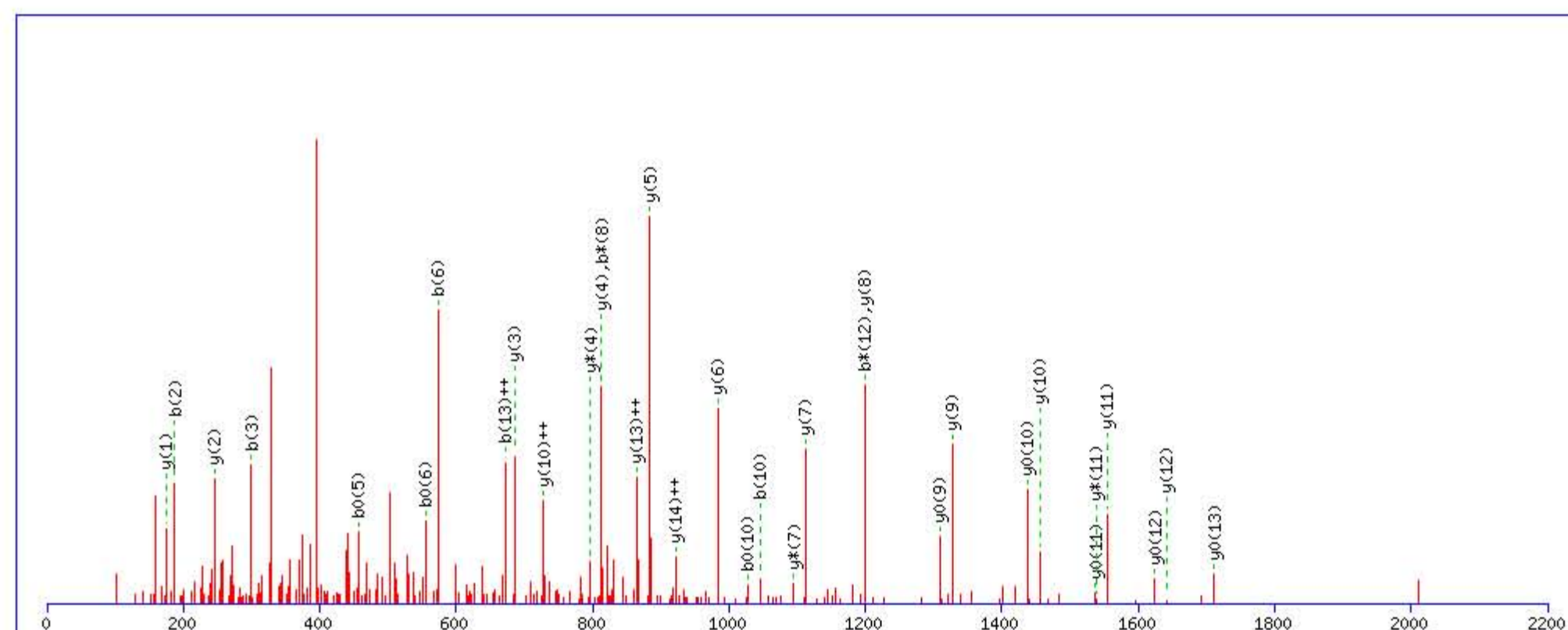
Title: Locus:1.1.1.3346.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2027.010574

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

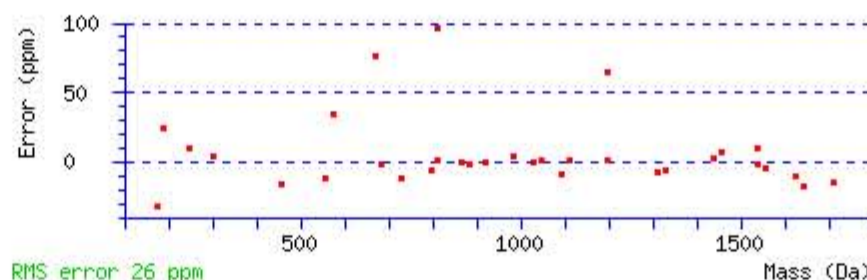
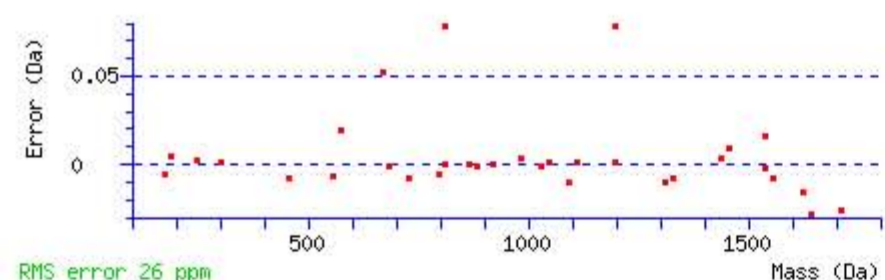
Variable modifications:

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 80 Expect: 5e-008

Matches : 33/154 fragment ions using 50 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							16
2	<b>187.071333</b>	94.039304			169.060768	85.034022	A	1912.990923	956.999100	1895.964374	948.485825	1894.980358	947.993817	15
3	<b>300.155397</b>	150.581336			282.144832	141.576054	L	1841.953809	<b>921.480543</b>	1824.927260	912.967268	1823.943244	912.475260	14
4	387.187425	194.097351			369.176860	185.092068	S	1728.869745	<b>864.938511</b>	1711.843196	856.425236	<b>1710.859180</b>	855.933228	13
5	474.219453	237.613364			<b>456.208888</b>	228.608082	S	<b>1641.837717</b>	821.422497	1624.811168	812.909222	<b>1623.827152</b>	812.417214	12
6	<b>573.287867</b>	287.147572			<b>555.277302</b>	278.142289	V	<b>1554.805689</b>	777.906483	<b>1537.779140</b>	769.393208	<b>1536.795124</b>	768.901200	11
7	701.346445	351.176861	684.319896	342.663586	683.335880	342.171578	Q	<b>1455.737275</b>	<b>728.372276</b>	1438.710726	719.859001	<b>1437.726710</b>	719.366993	10
8	830.389038	415.698157	<b>813.362489</b>	407.184883	812.378473	406.692875	E	<b>1327.678697</b>	664.342987	1310.652148	655.829712	<b>1309.668132</b>	655.337704	9
9	917.421066	459.214171	900.394517	450.700897	899.410501	450.208889	S	<b>1198.636104</b>	599.821690	1181.609555	591.308416	1180.625539	590.816408	8
10	<b>1045.479644</b>	523.243460	1028.453095	514.730186	<b>1027.469079</b>	514.238178	Q	<b>1111.604076</b>	556.305676	<b>1094.577527</b>	547.792402			7
11	1144.548058	572.777667	1127.521509	564.264393	1126.537493	563.772385	V	<b>983.545498</b>	492.276387	966.518949	483.763113			6
12	1215.585172	608.296224	<b>1198.558623</b>	599.782950	1197.574607	599.290942	A	<b>884.477084</b>	442.742180	867.450535	434.228906			5
13	1343.643750	<b>672.325513</b>	1326.617201	663.812239	1325.633185	663.320230	Q	<b>813.439970</b>	407.223623	<b>796.413421</b>	398.710349			4
14	1782.869076	891.938176	1765.842527	883.424902	1764.858511	882.932894	Q	<b>685.381392</b>	343.194334	668.354843	334.681060			3
15	1853.906190	927.456733	1836.879641	918.943459	1835.895625	918.451451	A	<b>246.156066</b>	123.581671	229.129517	115.068396			2
16							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **DALSSVQESQVAQQAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
79.7	2027.010574	-0.004852	<a href="#">DALSSVQESQVAQQAR</a>
79.4	2027.010574	-0.004852	<a href="#">DALSSVQESQVAQQAR</a>
73.7	2027.010574	-0.004852	<a href="#">DALSSVQESQVAQQAR</a>
37.2	2027.010574	-0.004852	<a href="#">DALSSVQESQVAQQAR</a>
1.8	2026.977982	0.027740	<a href="#">QEEREQEQRQALEQAR</a>
1.2	2027.029633	-0.023911	<a href="#">QESEHSHKHLIELRR</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **DALSSVQESQVAQQAR**

Found in **APOC3\_HUMAN**, Apolipoprotein C-III OS=Homo sapiens GN=APOC3 PE=1 SV=1

Match to Query 45727: 2338.177062 from(780.399630,3+) rtinseconds(2225) index(33193)

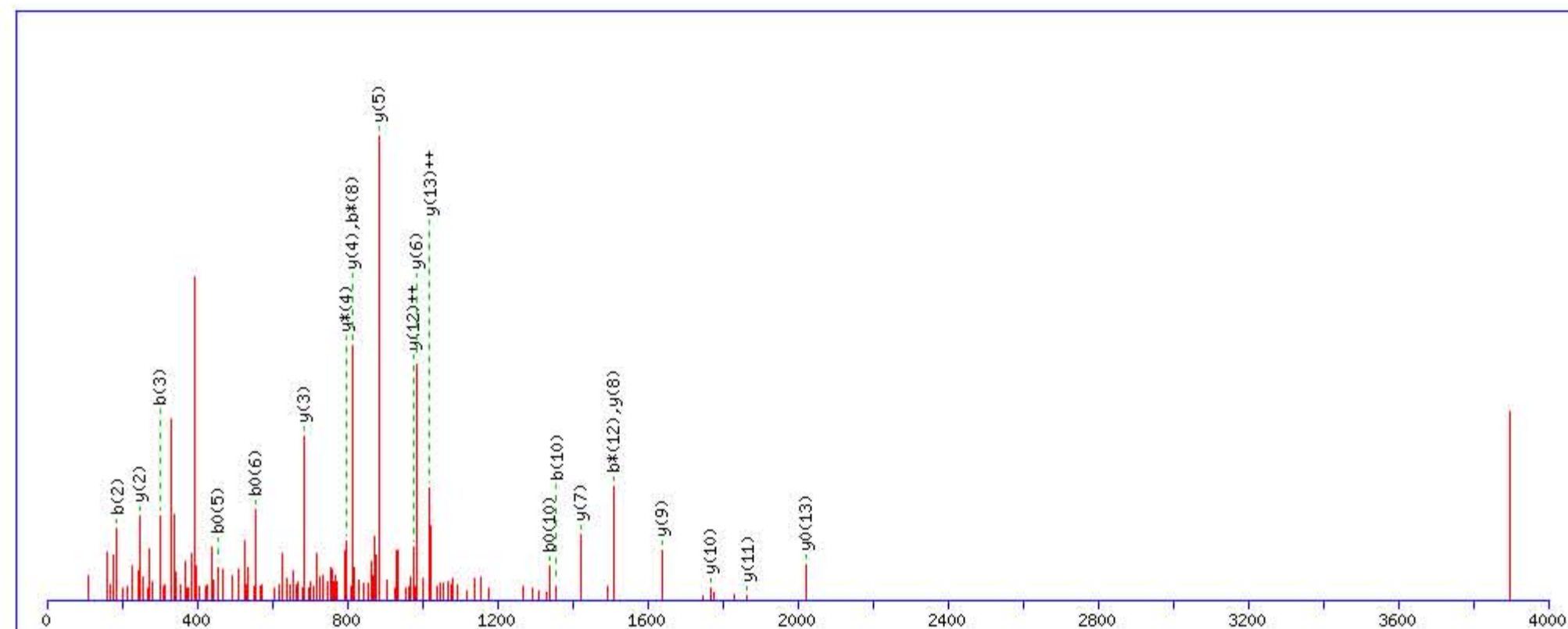
Title: Locus:1.1.1.3438.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2338.177322

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

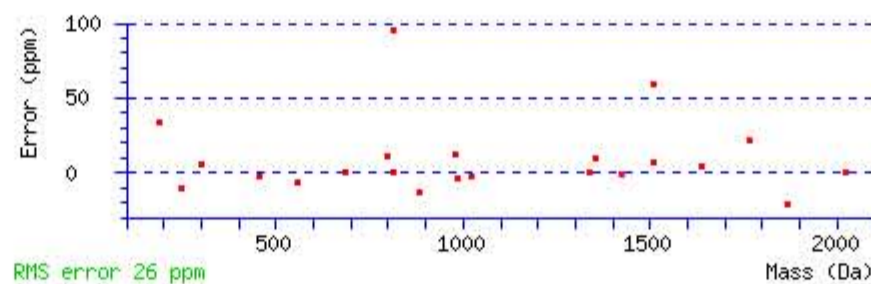
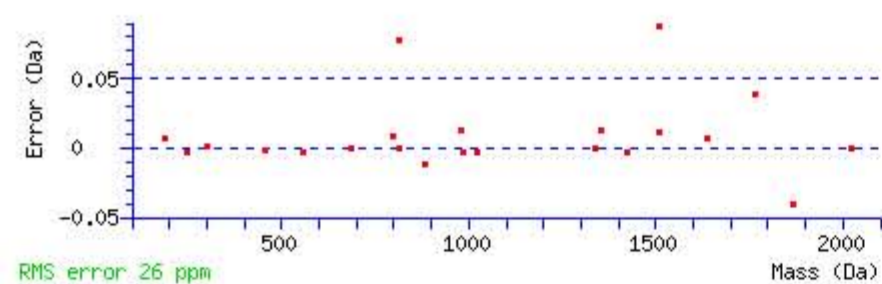
Q10 : Biotin:Thermo-21345 (Q)

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 58 Expect: 4.5e-005

Matches : 22/154 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							16
2	<b>187.071333</b>	94.039304			169.060768	85.034022	A	2224.157671	1112.582473	2207.131122	1104.069199	2206.147106	1103.577191	15
3	<b>300.155397</b>	150.581336			282.144832	141.576054	L	2153.120557	1077.063916	2136.094008	1068.550642	2135.109992	1068.058634	14
4	387.187425	194.097351			369.176860	185.092068	S	2040.036493	<b>1020.521885</b>	2023.009944	1012.008610	<b>2022.025928</b>	1011.516602	13
5	474.219453	237.613364			<b>456.208888</b>	228.608082	S	1953.004465	<b>977.005871</b>	1935.977916	968.492596	1934.993900	968.000588	12
6	573.287867	287.147572			<b>555.277302</b>	278.142289	V	<b>1865.972437</b>	933.489857	1848.945888	924.976582	1847.961872	924.484574	11
7	701.346445	351.176861	684.319896	342.663586	683.335880	342.171578	Q	<b>1766.904023</b>	883.955650	1749.877474	875.442375	1748.893458	874.950367	10
8	830.389038	415.698157	<b>813.362489</b>	407.184883	812.378473	406.692875	E	<b>1638.845445</b>	819.926361	1621.818896	811.413086	1620.834880	810.921078	9
9	917.421066	459.214171	900.394517	450.700897	899.410501	450.208889	S	<b>1509.802852</b>	755.405064	1492.776303	746.891790	1491.792287	746.399782	8
10	<b>1356.646392</b>	678.826834	1339.619843	670.313560	<b>1338.635827</b>	669.821551	Q	<b>1422.770824</b>	711.889050	1405.744275	703.375776			7
11	1455.714806	728.361041	1438.688257	719.847767	1437.704241	719.355758	V	<b>983.545498</b>	492.276387	966.518949	483.763113			6
12	1526.751920	763.879598	<b>1509.725371</b>	755.366324	1508.741355	754.874315	A	<b>884.477084</b>	442.742180	867.450535	434.228906			5
13	1654.810498	827.908887	1637.783949	819.395613	1636.799933	818.903605	Q	<b>813.439970</b>	407.223623	<b>796.413421</b>	398.710349			4
14	2094.035824	1047.521550	2077.009275	1039.008275	2076.025259	1038.516267	Q	<b>685.381392</b>	343.194334	668.354843	334.681060			3
15	2165.072938	1083.040107	2148.046389	1074.526833	2147.062373	1074.034825	A	<b>246.156066</b>	123.581671	229.129517	115.068397			2
16							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [DALSSVQESQVAQQAR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
57.9	2338.177322	-0.000260	<a href="#">DALSSVQESQVAQQAR</a>
46.6	2338.177322	-0.000260	<a href="#">DALSSVQESQVAQQAR</a>
29.1	2338.177322	-0.000260	<a href="#">DALSSVQESQVAQQAR</a>
23.3	2338.177322	-0.000260	<a href="#">DALSSVQESQVAQQAR</a>
20.6	2338.177322	-0.000260	<a href="#">DALSSVQESQVAQQAR</a>
6.5	2338.177322	-0.000260	<a href="#">DALSSVQESQVAQQAR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **DALSSVQESQVAQQAR**

Found in **APOC3\_HUMAN**, Apolipoprotein C-III OS=Homo sapiens GN=APOC3 PE=1 SV=1

Match to Query 45728: 2338.178172 from(780.400000,3+) rtinseconds(2216) index(33119)

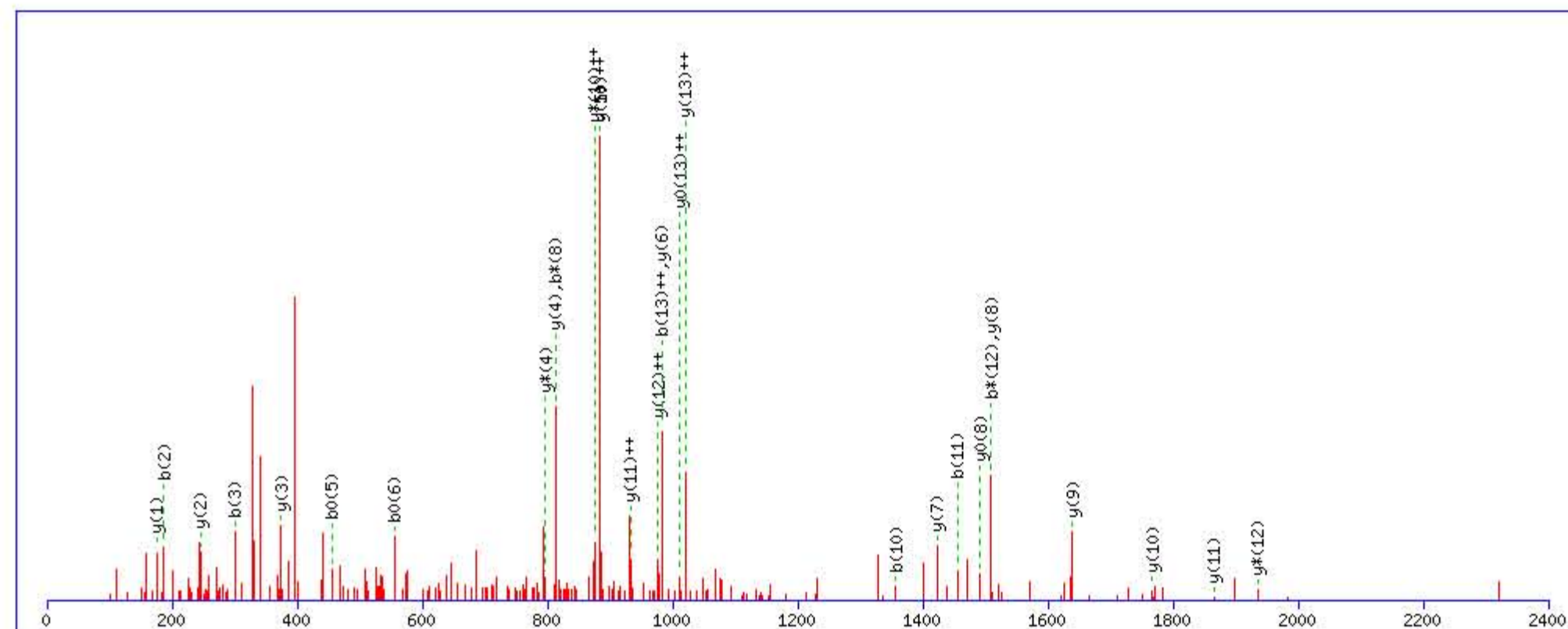
Title: Locus:1.1.1.3435.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2338.177322

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

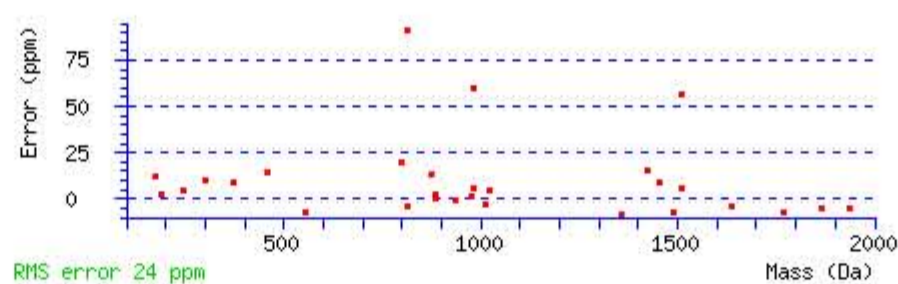
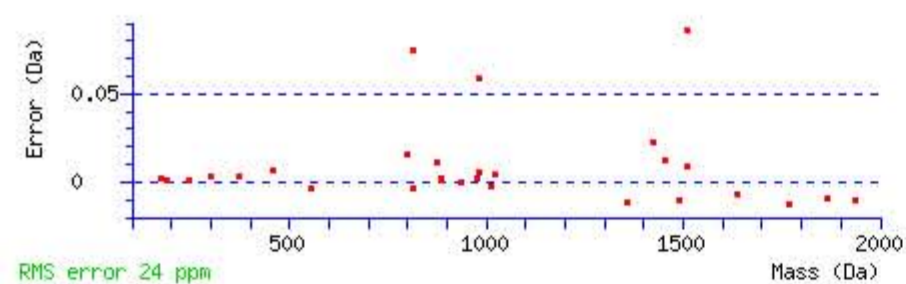
Q10 : Biotin:Thermo-21345 (Q)

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 38 Expect: 0.0041

Matches : 29/154 fragment ions using 73 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							16
2	<b>187.071333</b>	94.039304			169.060768	85.034022	A	2224.157671	1112.582473	2207.131122	1104.069199	2206.147106	1103.577191	15
3	<b>300.155397</b>	150.581336			282.144832	141.576054	L	2153.120557	1077.063916	2136.094008	1068.550642	2135.109992	1068.058634	14
4	387.187425	194.097351			369.176860	185.092068	S	2040.036493	<b>1020.521885</b>	2023.009944	1012.008610	2022.025928	<b>1011.516602</b>	13
5	474.219453	237.613364			<b>456.208888</b>	228.608082	S	1953.004465	<b>977.005871</b>	<b>1935.977916</b>	968.492596	1934.993900	968.000588	12
6	573.287867	287.147572			<b>555.277302</b>	278.142289	V	<b>1865.972437</b>	<b>933.489857</b>	1848.945888	924.976582	1847.961872	924.484574	11
7	701.346445	351.176861	684.319896	342.663586	683.335880	342.171578	Q	<b>1766.904023</b>	<b>883.955650</b>	1749.877474	<b>875.442375</b>	1748.893458	874.950367	10
8	830.389038	415.698157	<b>813.362489</b>	407.184883	812.378473	406.692875	E	<b>1638.845445</b>	819.926361	1621.818896	811.413086	1620.834880	810.921078	9
9	917.421066	459.214171	900.394517	450.700897	899.410501	450.208889	S	<b>1509.802852</b>	755.405064	1492.776303	746.891790	<b>1491.792287</b>	746.399782	8
10	<b>1356.646392</b>	678.826834	1339.619843	670.313560	1338.635827	669.821551	Q	<b>1422.770824</b>	711.889050	1405.744275	703.375776			7
11	<b>1455.714806</b>	728.361041	1438.688257	719.847767	1437.704241	719.355758	V	<b>983.545498</b>	492.276387	966.518949	483.763113			6
12	1526.751920	763.879598	<b>1509.725371</b>	755.366324	1508.741355	754.874315	A	<b>884.477084</b>	442.742180	867.450535	434.228906			5
13	1965.977246	<b>983.492261</b>	1948.950697	974.978987	1947.966681	974.486979	Q	<b>813.439970</b>	407.223623	<b>796.413421</b>	398.710349			4
14	2094.035824	1047.521550	2077.009275	1039.008275	2076.025259	1038.516267	Q	<b>374.214644</b>	187.610960	357.188095	179.097686			3
15	2165.072938	1083.040107	2148.046389	1074.526833	2147.062373	1074.034825	A	<b>246.156066</b>	123.581671	229.129517	115.068397			2
16							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **DALSSVQESQVAQQAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
38.2	2338.177322	0.000850	<a href="#">DALSSVQESQVAQQAR</a>
38.2	2338.177322	0.000850	<a href="#">DALSSVQESQVAQQAR</a>
22.9	2338.177322	0.000850	<a href="#">DALSSVQESQVAQQAR</a>
22.9	2338.177322	0.000850	<a href="#">DALSSVQESQVAQQAR</a>
15.3	2338.177322	0.000850	<a href="#">DALSSVQESQVAQQAR</a>
7.4	2338.177322	0.000850	<a href="#">DALSSVQESQVAQQAR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EQVAEVR**

Found in **APOE\_HUMAN**, Apolipoprotein E OS=Homo sapiens GN=APOE PE=1 SV=1

Match to Query 16026: 1140.592548 from(571.303550,2+) rtinseconds(1554) index(29119)

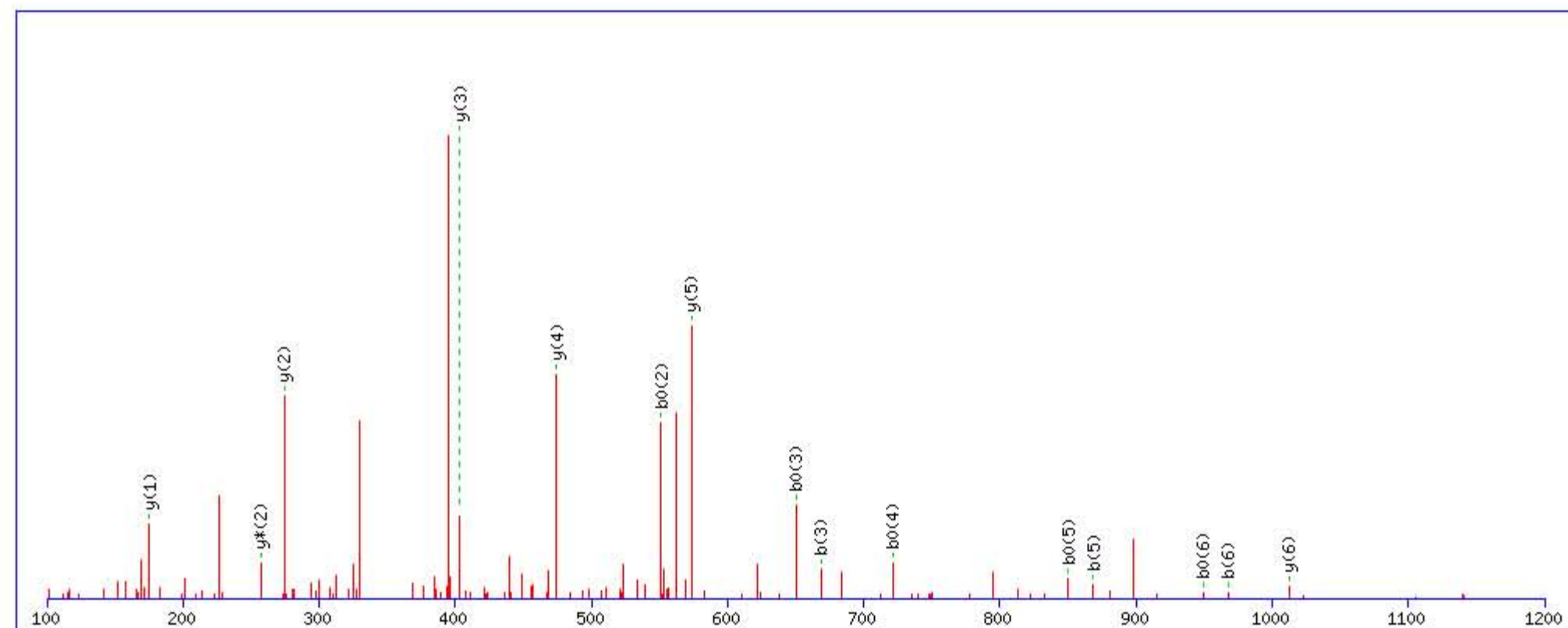
Title: Locus:1.1.1.3204.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1140.596115

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

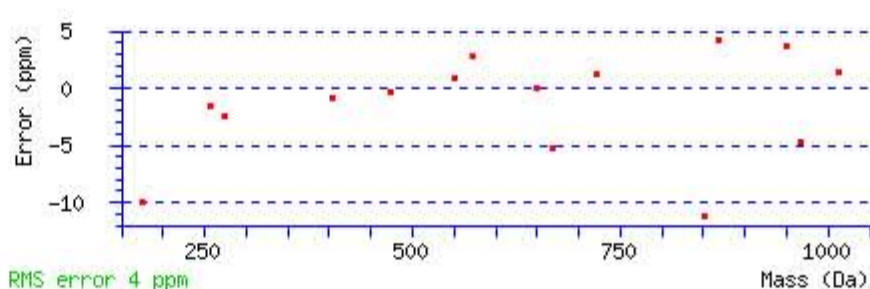
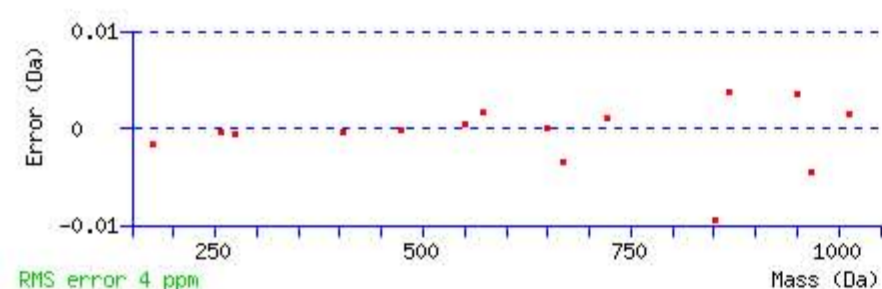
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.011

Matches : 15/66 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							7
2	569.275195	285.141236	552.248646	276.627961	551.264630	276.135953	Q	1012.560813	506.784044	995.534264	498.270770	994.550248	497.778762	6
3	668.343609	334.675443	651.317060	326.162168	650.333044	325.670160	V	573.335487	287.171382	556.308938	278.658107	555.324922	278.166099	5
4	739.380723	370.194000	722.354174	361.680725	721.370158	361.188717	A	474.267073	237.637174	457.240524	229.123900	456.256508	228.631892	4
5	868.423316	434.715296	851.396767	426.202022	850.412751	425.710014	E	403.229959	202.118617	386.203410	193.605343	385.219394	193.113335	3
6	967.491730	484.249503	950.465181	475.736228	949.481165	475.244220	V	274.187366	137.597321	257.160817	129.084046			2
7							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **EQVAEVR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
33.3	1140.596115	-0.003567	<a href="#">EQVAEVR</a>
13.9	1140.596115	-0.003567	<a href="#">QEVALDLR</a>
13.7	1140.596115	-0.003567	<a href="#">EQALDVR</a>
9.3	1140.599945	-0.007397	<a href="#">ERVALSHSSR</a>
5.9	1140.588715	0.003833	<a href="#">RLAADDPEVR</a>
5.5	1140.596115	-0.003567	<a href="#">QEGLDLR</a>
4.2	1140.577484	0.015064	<a href="#">ADSVSELPAPR</a>
4.0	1140.596115	-0.003567	<a href="#">EQSTLPR</a>
3.8	1140.599945	-0.007397	<a href="#">SSSKLAQHQR</a>
3.8	1140.596115	-0.003567	<a href="#">LQEGEVR</a>

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **ELQAAQAR**

Found in **APOE\_HUMAN**, Apolipoprotein E OS=Homo sapiens GN=APOE PE=1 SV=1

Match to Query 17681: 1196.625028 from(599.319790,2+) rtinseconds(1504) index(42949)

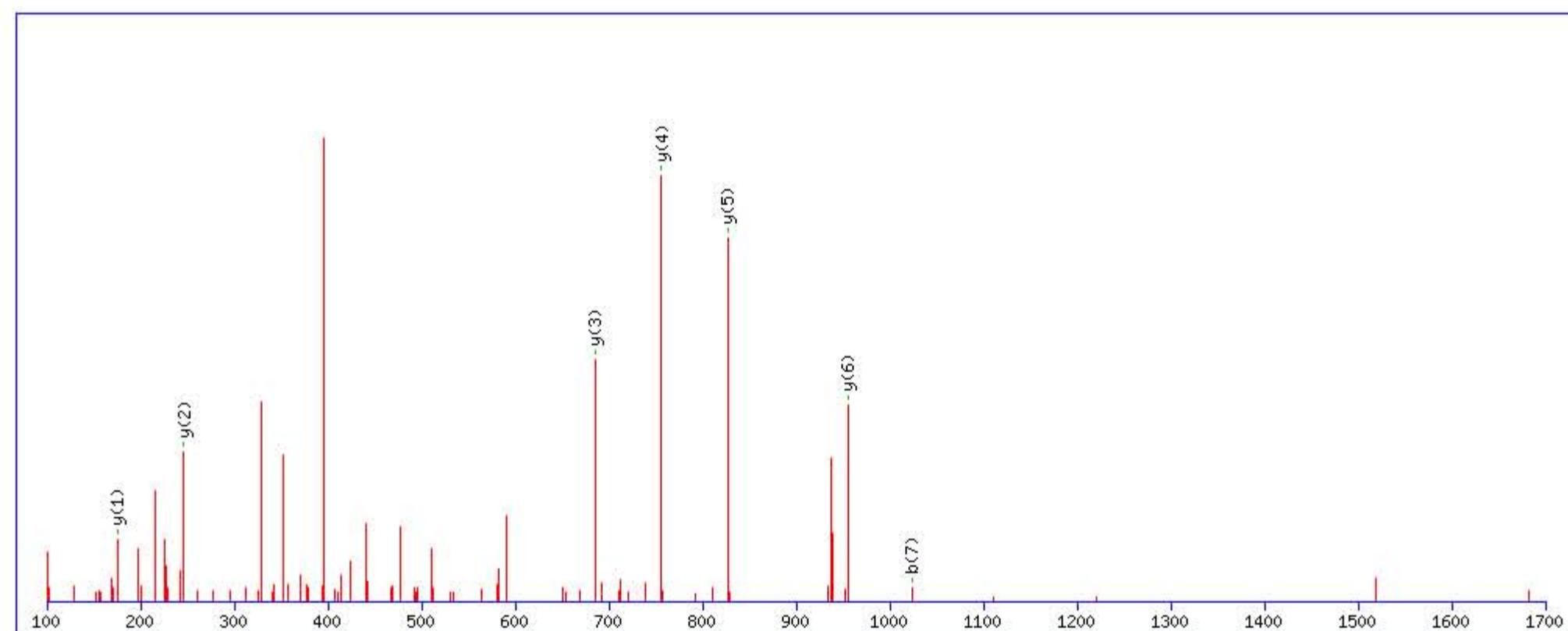
Title: Locus:1.1.1.3236.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1196.633545

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

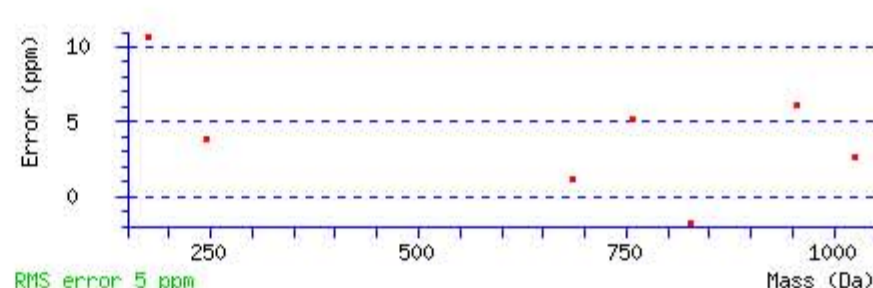
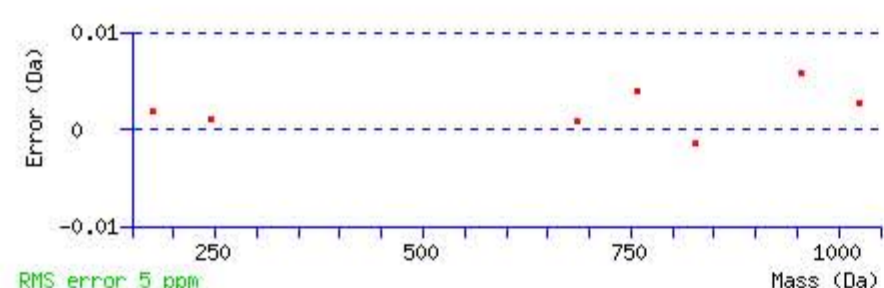
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 48 Expect: 0.00024

Matches : 7/66 fragment ions using 11 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E					8
2	243.133933	122.070605			225.123368	113.065322	L	1068.598262	534.802769	1051.571713	526.289495	7
3	371.192511	186.099894	354.165962	177.586619	353.181946	177.094611	Q	<b>955.514198</b>	478.260737	938.487649	469.747463	6
4	442.229625	221.618450	425.203076	213.105176	424.219060	212.613168	A	<b>827.455620</b>	414.231448	810.429071	405.718174	5
5	513.266739	257.137008	496.240190	248.623733	495.256174	248.131725	A	<b>756.418506</b>	378.712891	739.391957	370.199617	4
6	952.492065	476.749671	935.465516	468.236396	934.481500	467.744388	Q	<b>685.381392</b>	343.194334	668.354843	334.681060	3
7	<b>1023.529179</b>	512.268227	1006.502630	503.754953	1005.518614	503.262945	A	<b>246.156066</b>	123.581671	229.129517	115.068397	2
8							R	<b>175.118952</b>	88.063114	158.092403	79.549840	1



NCBI BLAST search of [ELQAAQAR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
48.0	1196.633545	-0.008517	<a href="#">ELQAAQAR</a>
12.5	1196.641434	-0.016406	<a href="#">STRPQAWVPR</a>
9.2	1196.627029	-0.002001	<a href="#">AGMPRQAR</a>
8.6	1196.614914	0.010114	<a href="#">ELQQAELPNR</a>
7.8	1196.633575	-0.008547	<a href="#">QASTQVPR</a>
7.1	1196.633545	-0.008517	<a href="#">ELQAAQAR</a>
6.6	1196.614929	0.010099	<a href="#">QITTELAEHR</a>
6.0	1196.614944	0.010084	<a href="#">EAIGPGGEVVNR</a>
2.7	1196.637390	-0.012362	<a href="#">TLRQAGAPNNR</a>
1.9	1196.614929	0.010099	<a href="#">DAVPGEAALQAR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **ELQAAQAR**

Found in **APOE\_HUMAN**, Apolipoprotein E OS=Homo sapiens GN=APOE PE=1 SV=1

Match to Query 17686: 1196.631228 from(599.322890,2+) rtinseconds(1483) index(42777)

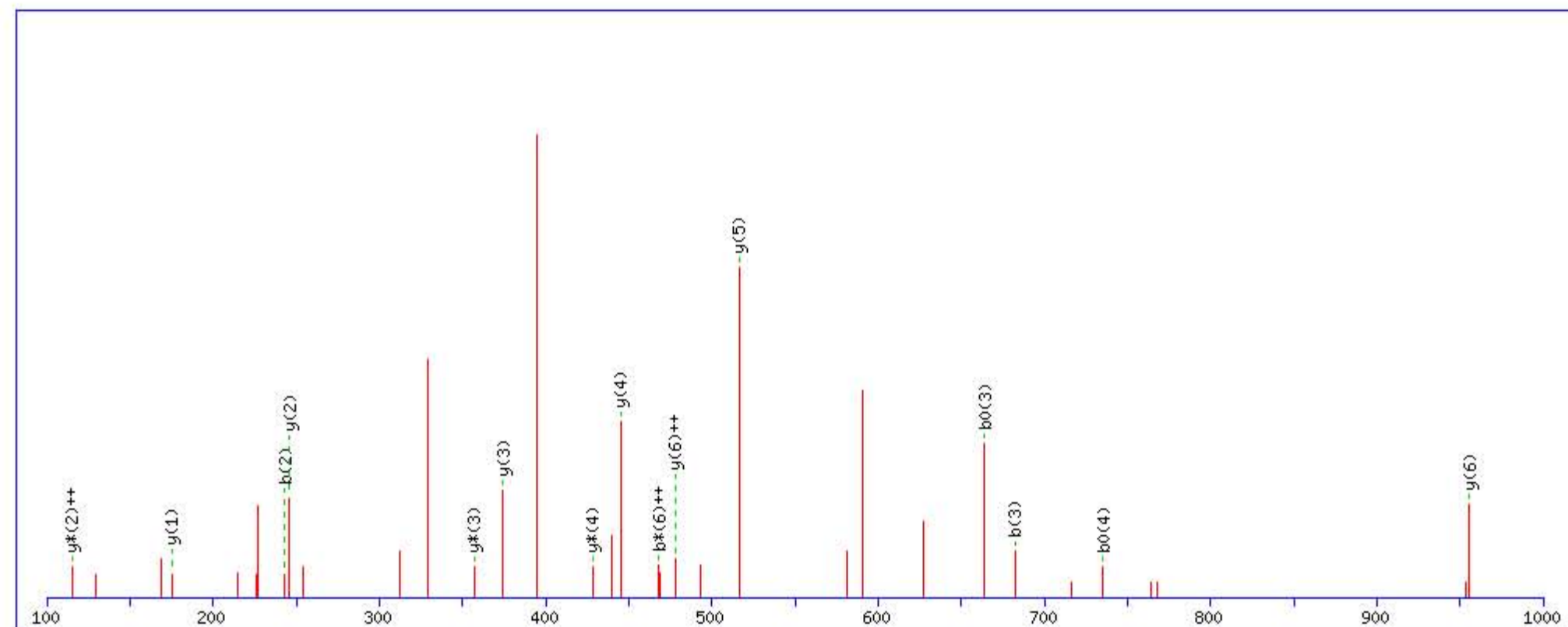
Title: Locus:1.1.1.3229.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1196.633545

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

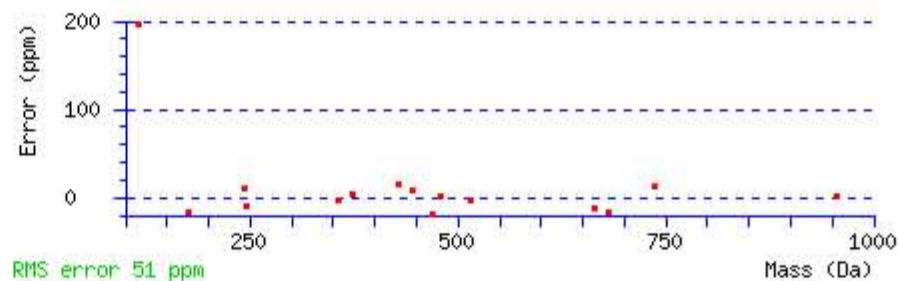
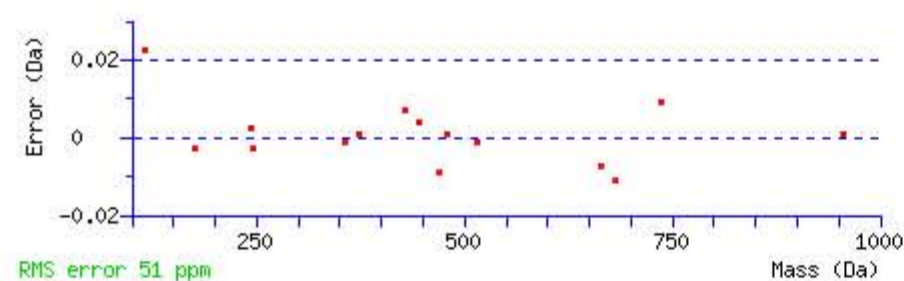
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.012

Matches : 15/66 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E					8
2	<b>243.133933</b>	122.070605			225.123368	113.065322	L	1068.598262	534.802769	1051.571713	526.289495	7
3	<b>682.359259</b>	341.683268	665.332710	333.169993	<b>664.348694</b>	332.677985	Q	<b>955.514198</b>	<b>478.260737</b>	938.487649	469.747463	6
4	753.396373	377.201825	736.369824	368.688550	<b>735.385808</b>	368.196542	A	<b>516.288872</b>	258.648074	499.262323	250.134800	5
5	824.433487	412.720382	807.406938	404.207107	806.422922	403.715099	A	<b>445.251758</b>	223.129517	<b>428.225209</b>	214.616243	4
6	952.492065	476.749671	935.465516	<b>468.236396</b>	934.481500	467.744388	Q	<b>374.214644</b>	187.610960	<b>357.188095</b>	179.097686	3
7	1023.529179	512.268227	1006.502630	503.754953	1005.518614	503.262945	A	<b>246.156066</b>	123.581671	229.129517	<b>115.068397</b>	2
8							R	<b>175.118952</b>	88.063114	158.092403	79.549840	1



NCBI BLAST search of **ELQAAQAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
31.6	1196.633545	-0.002317	<a href="#">ELQAAQAR</a>
10.8	1196.644775	-0.013547	<a href="#">LEQANRR</a>
5.9	1196.641418	-0.010190	<a href="#">EAKKAGPGFHR</a>
5.3	1196.633560	-0.002332	<a href="#">QNQDILR</a>
0.4	1196.633575	-0.002347	<a href="#">MGITISPVSHR</a>

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



# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **LGPLVEQGR**

Found in **APOE\_HUMAN**, Apolipoprotein E OS=Homo sapiens GN=APOE PE=1 SV=1

Match to Query 19745: 1278.708008 from(640.361280,2+) rtinseconds(1992) index(31814)

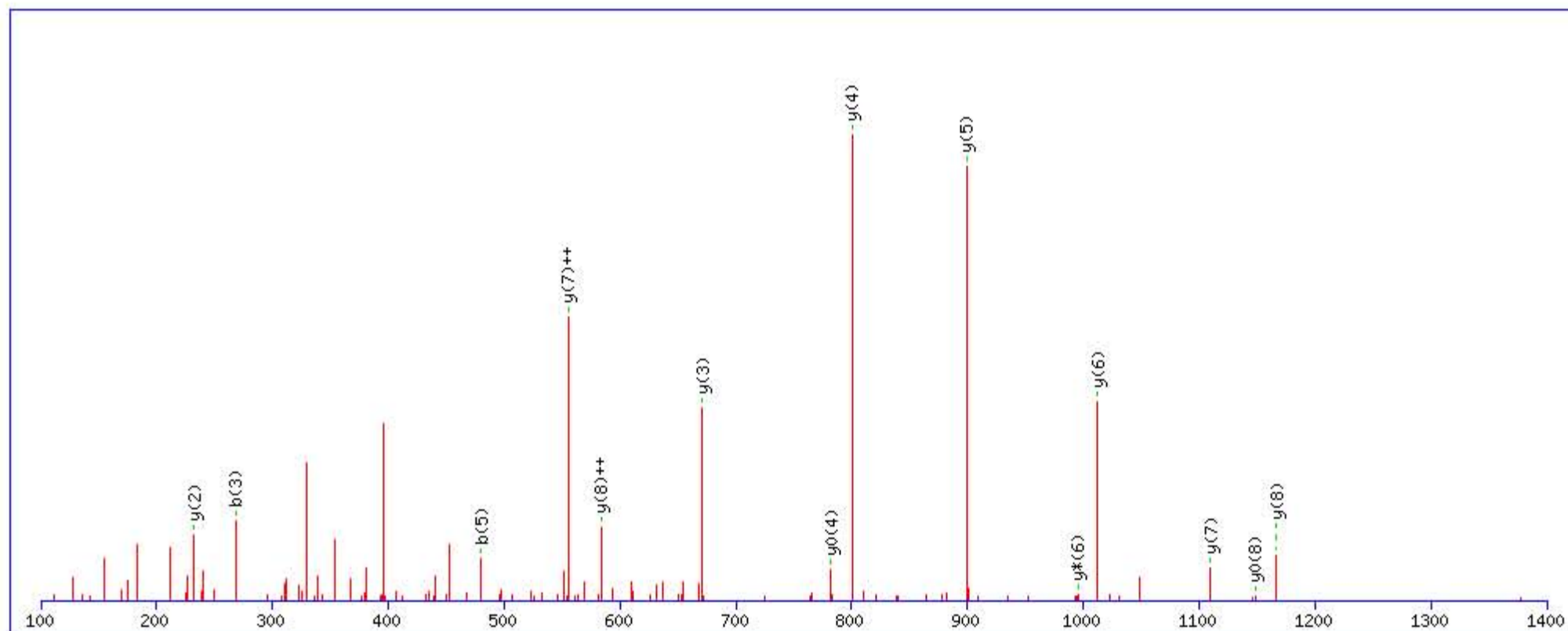
Title: Locus:1.1.1.3357.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1278.711823

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

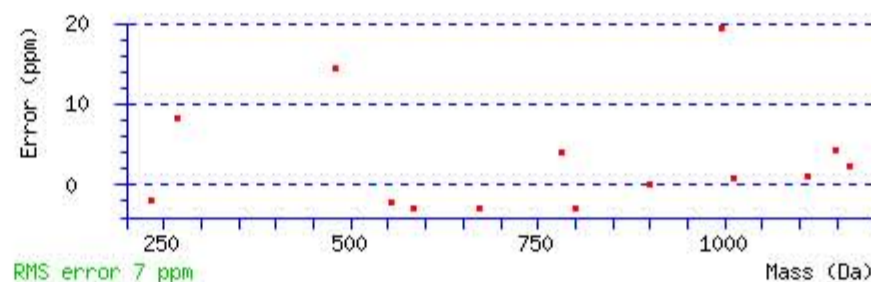
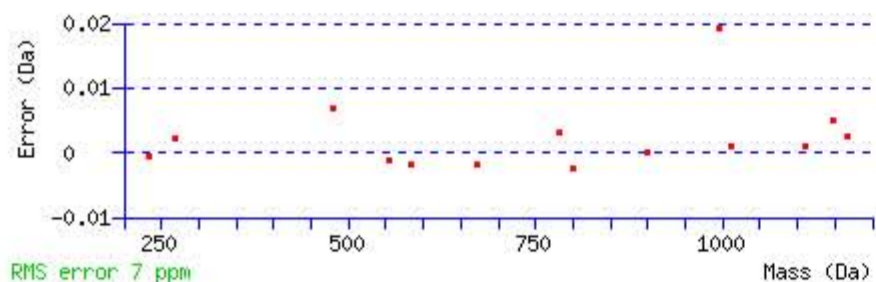
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 50 Expect: 0.00014

Matches : 14/68 fragment ions using 22 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							9
2	171.112804	86.060040					G	1166.635041	583.821159	1149.608492	575.307884	1148.624476	574.815876	8
3	268.165568	134.586422					P	1109.613577	555.310426	1092.587028	546.797152	1091.603012	546.305144	7
4	381.249632	191.128454					L	1012.560813	506.784044	995.534264	498.270770	994.550248	497.778762	6
5	480.318046	240.662661					V	899.476749	450.242012	882.450200	441.728738	881.466184	441.236730	5
6	609.360639	305.183958			591.350074	296.178675	E	800.408335	400.707805	783.381786	392.194531	782.397770	391.702523	4
7	1048.585965	524.796621	1031.559416	516.283346	1030.575400	515.791338	Q	671.365742	336.186509	654.339193	327.673234			3
8	1105.607429	553.307352	1088.580880	544.794078	1087.596864	544.302070	G	232.140416	116.573846	215.113867	108.060571			2
9							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LGPLVEQGR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
50.2	1278.711823	-0.003815	<a href="#">LGPLVEQGR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LQAEAFQAR**

Found in **APOE\_HUMAN**, Apolipoprotein E OS=Homo sapiens GN=APOE PE=1 SV=1

Match to Query 21214: 1343.701428 from(672.857990,2+) rtinseconds(1838) index(30812)

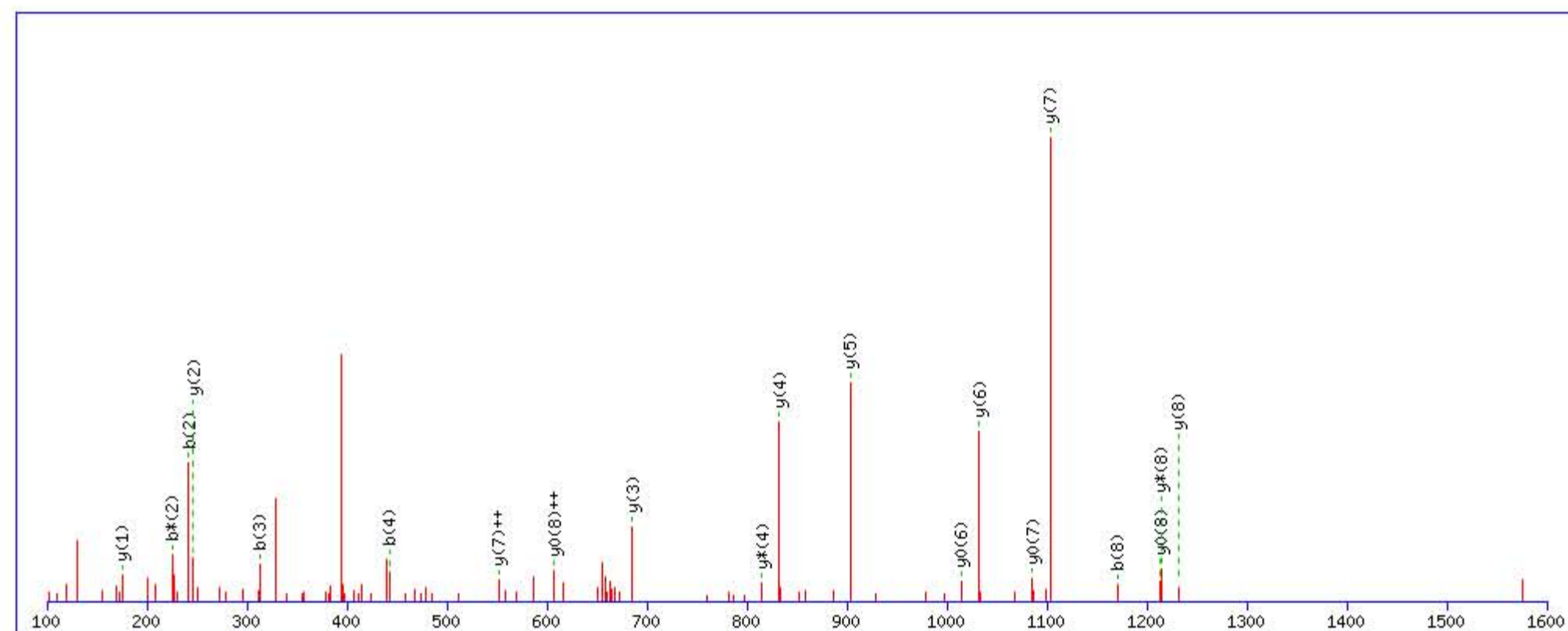
Title: Locus:1.1.1.3303.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1343.701965

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

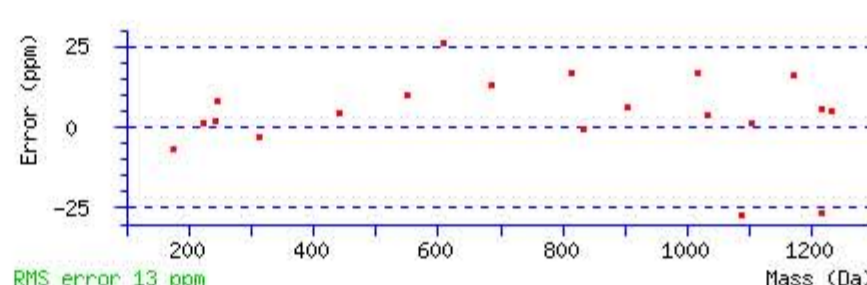
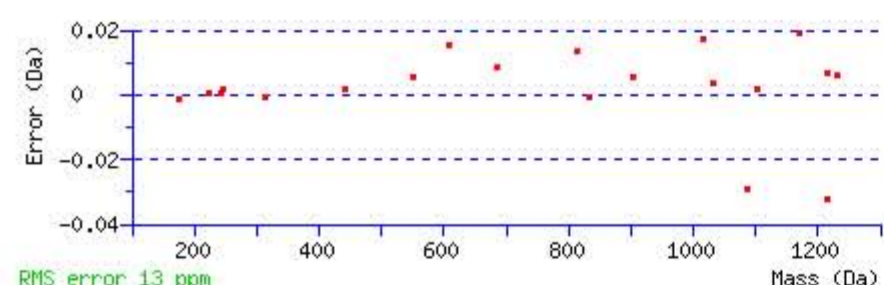
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 49 Expect: 0.00023

Matches : 20/78 fragment ions using 36 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							9
2	<b>242.149918</b>	121.578597	<b>225.123369</b>	113.065323			Q	<b>1231.625205</b>	616.316241	<b>1214.598656</b>	607.802966	<b>1213.614640</b>	<b>607.310958</b>	8
3	<b>313.187032</b>	157.097154	296.160483	148.583879			A	<b>1103.566627</b>	<b>552.286951</b>	1086.540078	543.773677	<b>1085.556062</b>	543.281669	7
4	<b>442.229625</b>	221.618450	425.203076	213.105176	424.219060	212.613168	E	<b>1032.529513</b>	516.768395	1015.502964	508.255120	<b>1014.518948</b>	507.763112	6
5	513.266739	257.137008	496.240190	248.623733	495.256174	248.131725	A	<b>903.486920</b>	452.247098	886.460371	443.733823			5
6	660.335153	330.671215	643.308604	322.157940	642.324588	321.665932	F	<b>832.449806</b>	416.728541	<b>815.423257</b>	408.215266			4
7	1099.560479	550.283878	1082.533930	541.770603	1081.549914	541.278595	Q	<b>685.381392</b>	343.194334	668.354843	334.681060			3
8	<b>1170.597593</b>	585.802435	1153.571044	577.289160	1152.587028	576.797152	A	<b>246.156066</b>	123.581671	229.129517	115.068396			2
9							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LQAEAFQAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
49.4	1343.701965	-0.000537	<a href="#">LQAEAFQAR</a>
9.9	1343.694107	0.007321	<a href="#">IQAMSEVQK</a>
7.8	1343.715683	-0.014255	<a href="#">LKDSEAE LQRR</a>
7.6	1343.704453	-0.003025	<a href="#">IQEKKDEDIAR</a>
7.0	1343.683350	0.018078	<a href="#">GSPAAP EGA L GYVR</a>
5.6	1343.716583	-0.015155	<a href="#">LQQVMSRR</a>
5.0	1343.704453	-0.003025	<a href="#">LQAANAEDIKSGK</a>
5.0	1343.704453	-0.003025	<a href="#">IKGEELSEANVR</a>
1.6	1343.694565	0.006863	<a href="#">QLAAFAPREEGR</a>
1.5	1343.693207	0.008221	<a href="#">LAKDLEELER</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **LEEQAQQIR**

Found in **APOE\_HUMAN**, Apolipoprotein E OS=Homo sapiens GN=APOE PE=1 SV=1

Match to Query 25099: 1424.732028 from(713.373290,2+) rtinseconds(1633) index(2797)

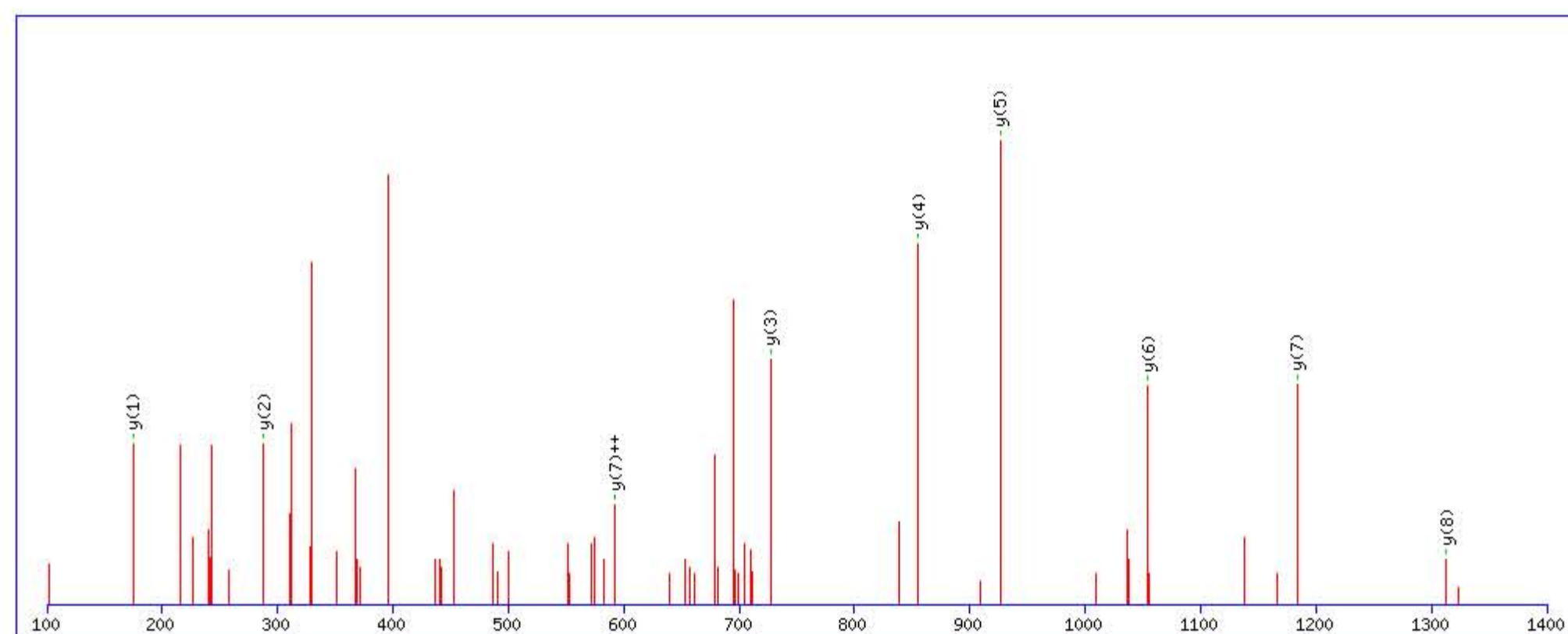
Title: Locus:1.1.1.3088.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1424.744553

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

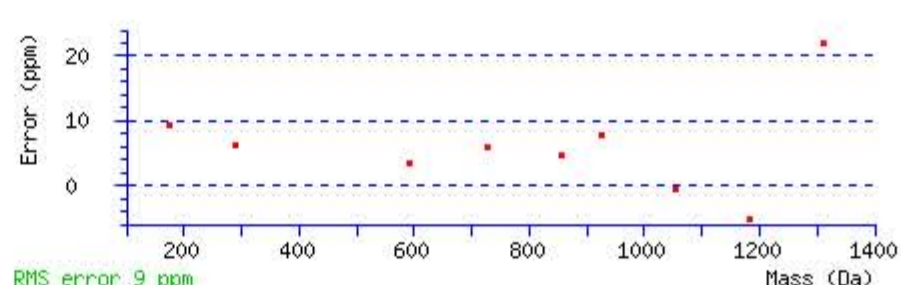
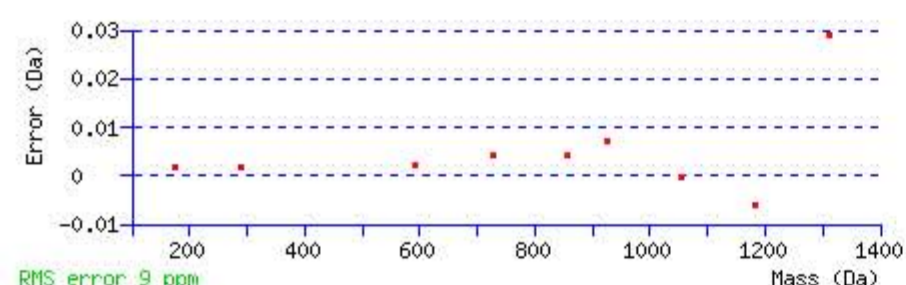
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 69 Expect: 8.8e-006

Matches : 9/76 fragment ions using 12 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							9
2	243.133933	122.070605			225.123368	113.065322	E	<b>1312.667798</b>	656.837537	1295.641249	648.324263	1294.657233	647.832255	8
3	372.176526	186.591901			354.165961	177.586619	E	<b>1183.625205</b>	<b>592.316241</b>	1166.598656	583.802966	1165.614640	583.310958	7
4	500.235104	250.621190	483.208555	242.107916	482.224539	241.615908	Q	<b>1054.582612</b>	527.794944	1037.556063	519.281670			6
5	571.272218	286.139747	554.245669	277.626473	553.261653	277.134465	A	<b>926.524034</b>	463.765655	909.497485	455.252381			5
6	699.330796	350.169036	682.304247	341.655762	681.320231	341.163754	Q	<b>855.486920</b>	428.247098	838.460371	419.733824			4
7	1138.556122	569.781699	1121.529573	561.268425	1120.545557	560.776417	Q	<b>727.428342</b>	364.217809	710.401793	355.704535			3
8	1251.640186	626.323731	1234.613637	617.810457	1233.629621	617.318449	I	<b>288.203016</b>	144.605146	271.176467	136.091871			2
9							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [LEEQAQQIR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
69.3	1424.744553	-0.012525	<a href="#">LEEQAQQIR</a>
52.9	1424.744553	-0.012525	<a href="#">LEEQAQQIR</a>
24.2	1424.744553	-0.012525	<a href="#">LEEQAQQIR</a>
16.0	1424.733322	-0.001294	<a href="#">LEQETEPLR</a>
15.2	1424.723465	0.008563	<a href="#">TWTVLPPMSTHR</a>
10.7	1424.745438	-0.013410	<a href="#">QMQQIR</a>
7.8	1424.734680	-0.002652	<a href="#">WVLTAAHCLAQR</a>
4.7	1424.744583	-0.012555	<a href="#">QLSGDQPTIR</a>
4.0	1424.726807	0.005221	<a href="#">QMNLQQQPK</a>
2.9	1424.744583	-0.012555	<a href="#">QLSGDQPTIR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QQTEWQSGQR**

Found in **APOE\_HUMAN**, Apolipoprotein E OS=Homo sapiens GN=APOE PE=1 SV=1

Match to Query 28648: 1557.731868 from(779.873210,2+) rtinseconds(1612) index(29499)

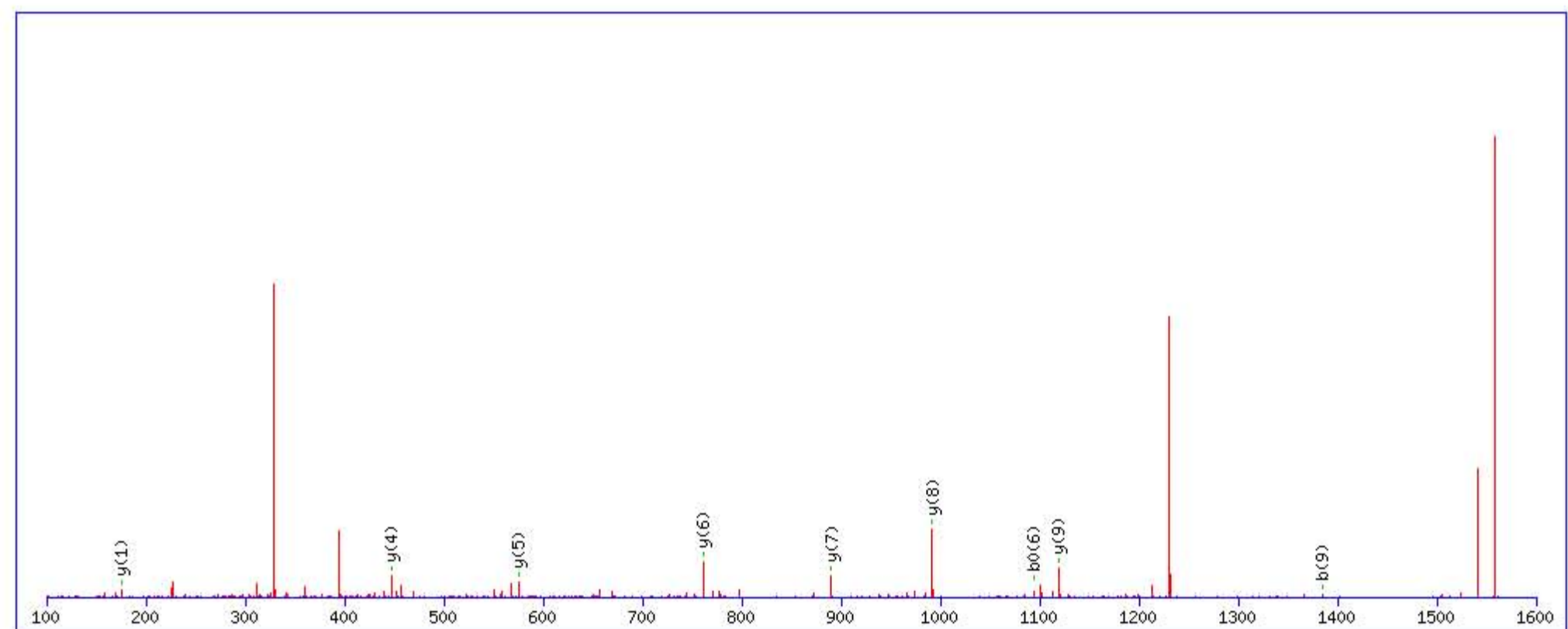
Title: Locus:1.1.1.3224.26 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1557.735809

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

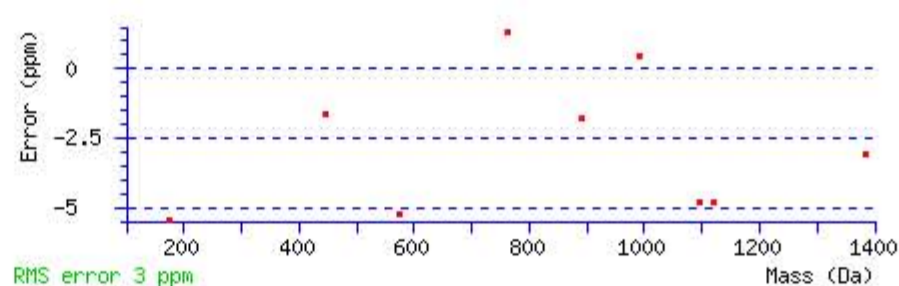
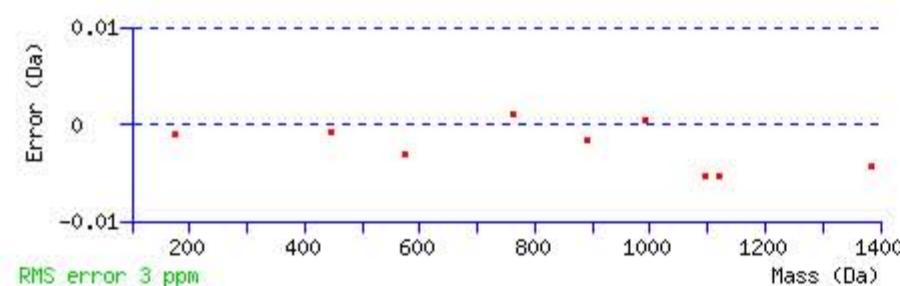
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 41 Expect: 0.0011

Matches : 9/98 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							10
2	568.291180	284.649228	551.264631	276.135954			Q	1119.517763	560.262520	1102.491214	551.749245	1101.507198	551.257237	9
3	669.338859	335.173068	652.312310	326.659793	651.328294	326.167785	T	991.459185	496.233231	974.432636	487.719956	973.448620	487.227948	8
4	798.381452	399.694364	781.354903	391.181090	780.370887	390.689082	E	890.411506	445.709391	873.384957	437.196117	872.400941	436.704109	7
5	984.460765	492.734021	967.434216	484.220746	966.450200	483.728738	W	761.368913	381.188095	744.342364	372.674820	743.358348	372.182812	6
6	1112.519343	556.763310	1095.492794	548.250035	1094.508778	547.758027	Q	575.289600	288.148438	558.263051	279.635164	557.279035	279.143156	5
7	1199.551371	600.279324	1182.524822	591.766049	1181.540806	591.274041	S	447.231022	224.119149	430.204473	215.605875	429.220457	215.113867	4
8	1256.572835	628.790056	1239.546286	620.276781	1238.562270	619.784773	G	360.198994	180.603135	343.172445	172.089860			3
9	1384.631413	692.819345	1367.604864	684.306070	1366.620848	683.814062	Q	303.177530	152.092403	286.150981	143.579129			2
10							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **QQTEWQSGQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
41.1	1557.735809	-0.003941	<a href="#">QQTEWQSGQR</a>
28.7	1557.735809	-0.003941	<a href="#">QQTEWQSGQR</a>
9.5	1557.747040	-0.015172	<a href="#">AFSHCSSLTKHQR</a>
9.0	1557.720566	0.011302	<a href="#">QEAAATGVDTICTHR</a>
7.0	1557.742340	-0.010472	<a href="#">TQSFEIPQPDSGPR</a>
6.4	1557.710663	0.021205	<a href="#">ATQRPPYCDGTHR</a>
6.1	1557.746567	-0.014699	<a href="#">QMSSPQSR</a>
5.5	1557.735779	-0.003911	<a href="#">APPELPERNCGYR</a>
4.2	1557.745697	-0.013829	<a href="#">GSSLFMDTEKSGKR</a>
4.0	1557.720551	0.011317	<a href="#">LSQVSPEDDRPCR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AATVGSLAGQPLQER**

Found in **APOE\_HUMAN**, Apolipoprotein E OS=Homo sapiens GN=APOE PE=1 SV=1

Match to Query 35862: 1807.972188 from(904.993370,2+) rtinseconds(2015) index(5022)

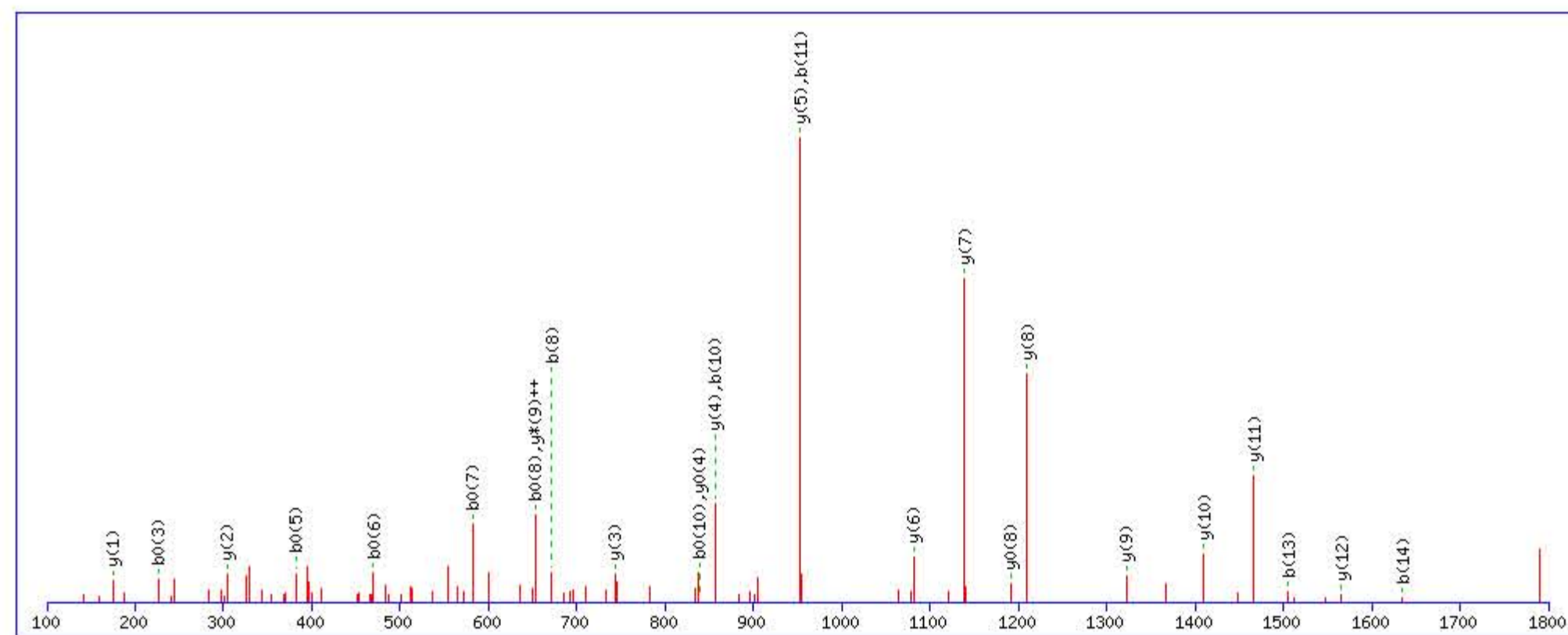
Title: Locus:1.1.1.3221.25 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1807.961441

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

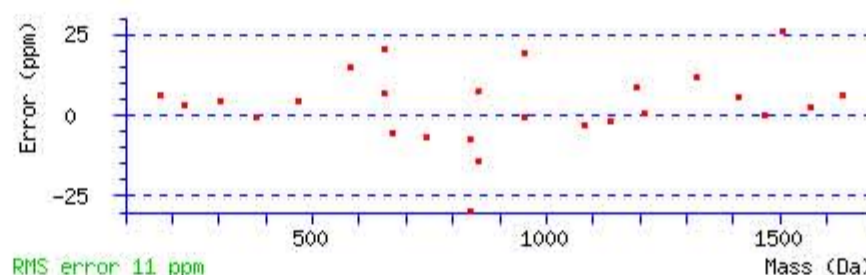
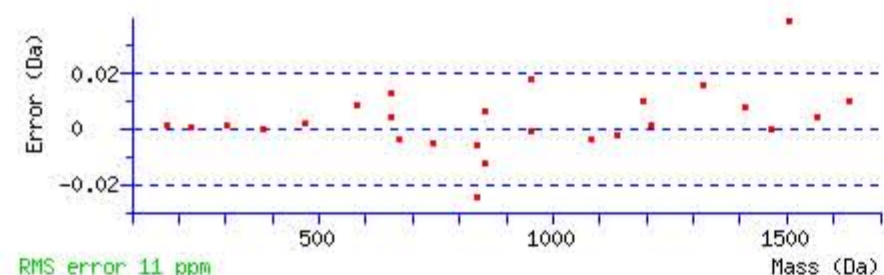
Variable modifications:

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 107 Expect: 4.9e-010

Matches : 26/144 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							15
2	143.081504	72.044390					A	1737.931618	869.469447	1720.905069	860.956173	1719.921053	860.464165	14
3	244.129183	122.568230			226.118618	113.562947	T	1666.894504	833.950890	1649.867955	825.437616	1648.883939	824.945608	13
4	343.197597	172.102437			325.187032	163.097154	V	1565.846825	783.427051	1548.820276	774.913776	1547.836260	774.421768	12
5	400.219061	200.613169			382.208496	191.607886	G	1466.778411	733.892844	1449.751862	725.379569	1448.767846	724.887561	11
6	487.251089	244.129183			469.240524	235.123900	S	1409.756947	705.382112	1392.730398	696.868837	1391.746382	696.376829	10
7	600.335153	300.671215			582.324588	291.665932	L	1322.724919	661.866098	1305.698370	653.352823	1304.714354	652.860815	9
8	671.372267	336.189772			653.361702	327.184489	A	1209.640855	605.324066	1192.614306	596.810791	1191.630290	596.318783	8
9	728.393731	364.700504			710.383166	355.695221	G	1138.603741	569.805509	1121.577192	561.292234	1120.593176	560.800226	7
10	856.452309	428.729793	839.425760	420.216518	838.441744	419.724510	Q	1081.582277	541.294777	1064.555728	532.781502	1063.571712	532.289494	6
11	953.505073	477.256175	936.478524	468.742900	935.494508	468.250892	P	953.523699	477.265488	936.497150	468.752213	935.513134	468.260205	5
12	1066.589137	533.798207	1049.562588	525.284932	1048.578572	524.792924	L	856.470935	428.739106	839.444386	420.225831	838.460370	419.733823	4
13	1505.814463	753.410870	1488.787914	744.897595	1487.803898	744.405587	Q	743.386871	372.197074	726.360322	363.683799	725.376306	363.191791	3
14	1634.857056	817.932166	1617.830507	809.418892	1616.846491	808.926884	E	304.161545	152.584411	287.134996	144.071136	286.150980	143.579128	2
15							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **AATVGSLAGQPLQER**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
106.6	1807.961441	0.010747	<a href="#">AATVGSLAGQPLQER</a>
59.4	1807.961441	0.010747	<a href="#">AATVGSLAGQPLQER</a>
14.4	1807.947510	0.024678	<a href="#">VGLAQIAAMDISRGNHR</a>
7.2	1807.961426	0.010762	<a href="#">DELEQVLAATRPR</a>
3.3	1807.986542	-0.014354	<a href="#">QAALLEEAALLAER</a>
1.8	1807.983887	-0.011699	<a href="#">KPVTAQERQRER</a>
1.2	1807.954208	0.017980	<a href="#">INMLYNELFQSLVPK</a>
0.9	1807.947464	0.024724	<a href="#">ENRLAERMAILHAER</a>
0.5	1807.980042	-0.007854	<a href="#">TAAIKAMLQLHER</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **SWFEPLVEDMQR**

Found in **APOE\_HUMAN**, Apolipoprotein E OS=Homo sapiens GN=APOE PE=1 SV=1

Match to Query 36556: 1846.872628 from(924.443590,2+) rtinseconds(2848) index(37023)

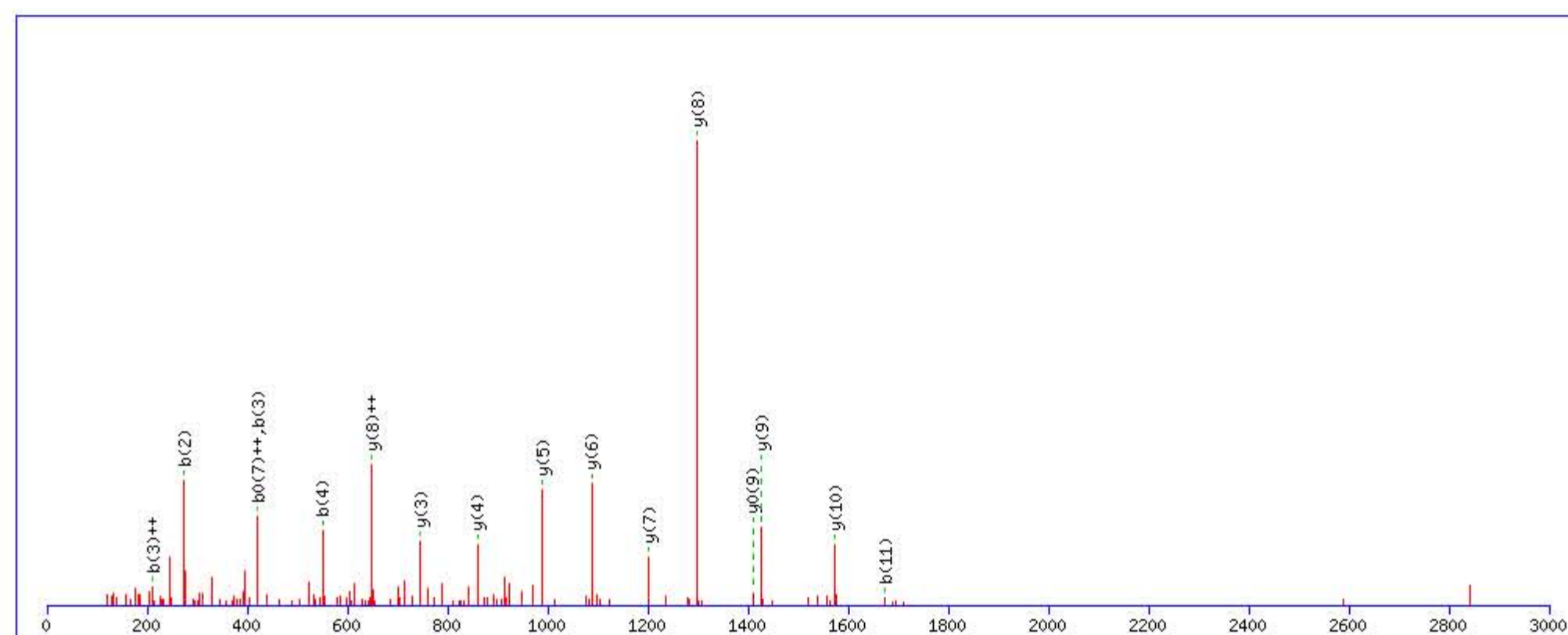
Title: Locus:1.1.1.3653.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1846.874603

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

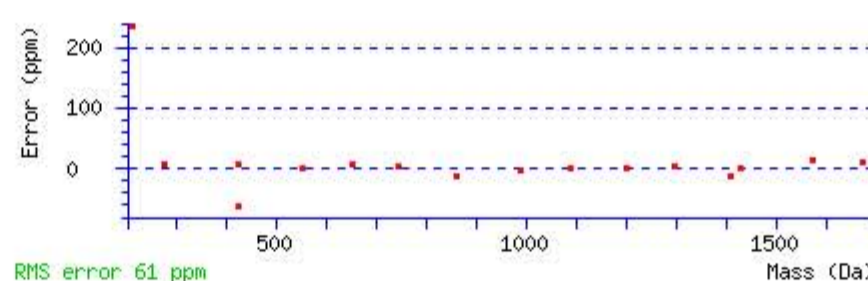
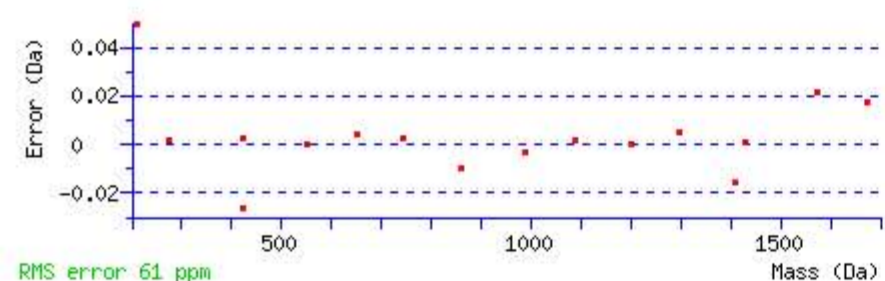
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 67 Expect: 3.7e-006

Matches : 16/106 fragment ions using 16 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							12
2	<b>274.118617</b>	137.562947			256.108052	128.557664	W	1760.849861	880.928568	1743.823312	872.415294	1742.839296	871.923286	11
3	<b>421.187031</b>	<b>211.097153</b>			403.176466	202.091871	F	<b>1574.770548</b>	787.888912	1557.743999	779.375638	1556.759983	778.883629	10
4	<b>550.229624</b>	275.618450			532.219059	266.613168	E	<b>1427.702134</b>	714.354705	1410.675585	705.841431	<b>1409.691569</b>	705.349422	9
5	647.282388	324.144832			629.271823	315.139550	P	<b>1298.659541</b>	<b>649.833409</b>	1281.632992	641.320134	1280.648976	640.828126	8
6	760.366452	380.686864			742.355887	371.681582	L	<b>1201.606777</b>	601.307027	1184.580228	592.793752	1183.596212	592.301744	7
7	859.434866	430.221071			841.424301	<b>421.215789</b>	V	<b>1088.522713</b>	544.764995	1071.496164	536.251720	1070.512148	535.759712	6
8	988.477459	494.742368			970.466894	485.737085	E	<b>989.454299</b>	495.230788	972.427750	486.717513	971.443734	486.225505	5
9	1103.504402	552.255839			1085.493837	543.250557	D	<b>860.411706</b>	430.709491	843.385157	422.196216	842.401141	421.704208	4
10	1234.544887	617.776082			1216.534322	608.770799	M	<b>745.384763</b>	373.196020	728.358214	364.682745			3
11	<b>1673.770213</b>	837.388745	1656.743664	828.875470	1655.759648	828.383462	Q	614.344278	307.675777	597.317729	299.162503			2
12							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SWFEPLVEDMQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
66.6	1846.874603	-0.001975	<a href="#">SWFEPLVEDMQR</a>
17.1	1846.866562	0.006066	<a href="#">LCMAQPRTVQDVEER</a>
15.5	1846.849426	0.023202	<a href="#">SFWENNCKMIYLAR</a>
2.8	1846.895706	-0.023078	<a href="#">CFELQALLEEER</a>
1.7	1846.870560	0.002068	<a href="#">IHIGEKPYECKECKG</a>
0.7	1846.874603	-0.001975	<a href="#">MWTYMKSAEPSVFVR</a>
0.7	1846.874603	-0.001975	<a href="#">MWTYMKSAEPSVFVR</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SGVQQLIQYYQDQK**

Found in **APOF\_HUMAN**, Apolipoprotein F OS=Homo sapiens GN=APOF PE=1 SV=2

Match to Query 40026: 2008.009948 from(1005.012250,2+) rtinseconds(2507) index(34645)

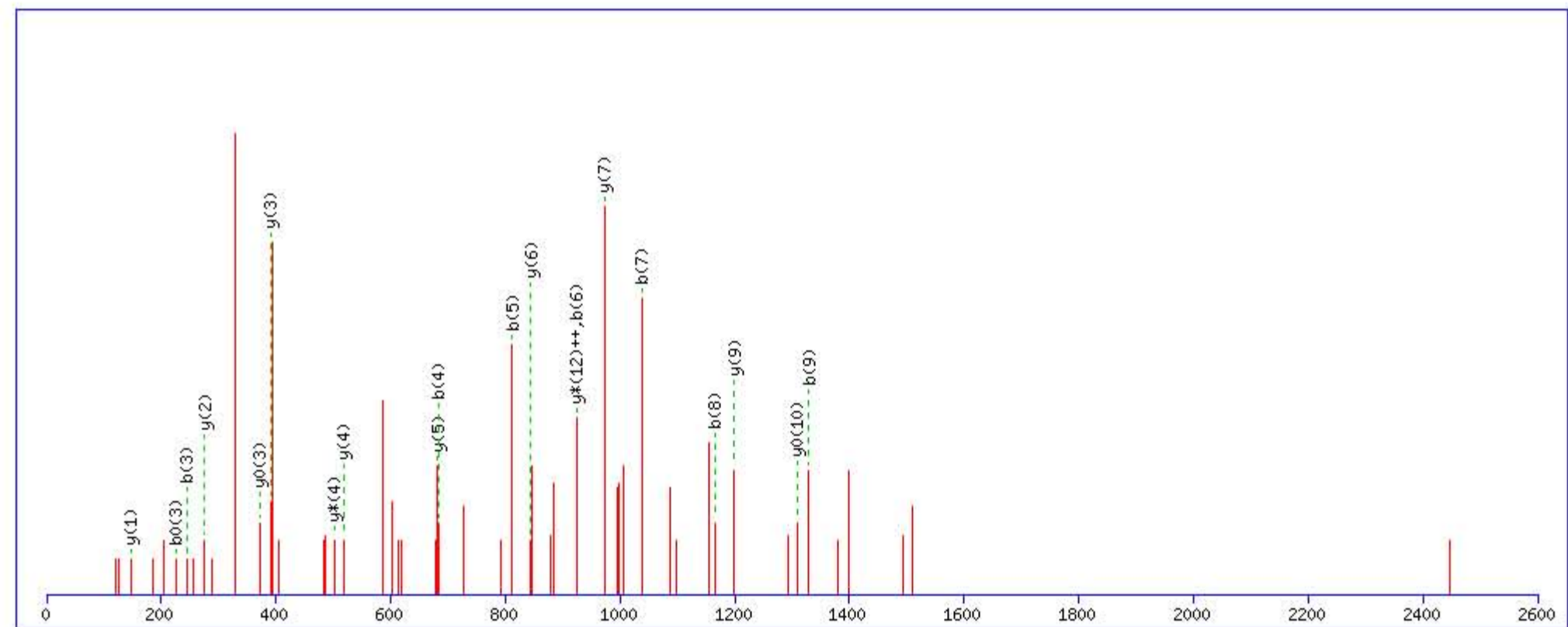
Title: Locus:1.1.1.3536.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2008.008789

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

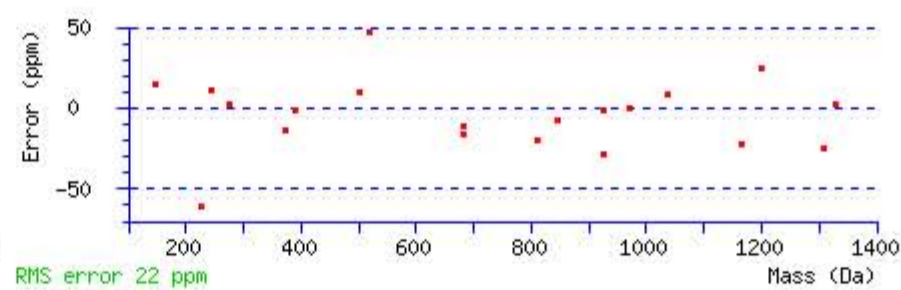
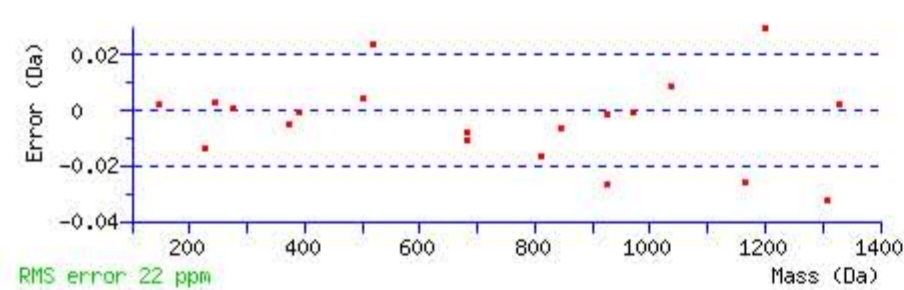
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.0019

Matches : 20/146 fragment ions using 50 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							14
2	145.060768	73.034022			127.050203	64.028740	G	1921.984049	961.495663	1904.957500	952.982388	1903.973484	952.490380	13
3	<b>244.129182</b>	122.568229			<b>226.118617</b>	113.562947	V	1864.962585	932.984931	1847.936036	<b>924.471656</b>	1846.952020	923.979648	12
4	<b>683.354508</b>	342.180892	666.327959	333.667618	665.343943	333.175610	Q	1765.894171	883.450724	1748.867622	874.937449	1747.883606	874.445441	11
5	<b>811.413086</b>	406.210181	794.386537	397.696907	793.402521	397.204899	Q	1326.668845	663.838061	1309.642296	655.324786	<b>1308.658280</b>	654.832778	10
6	<b>924.497150</b>	462.752213	907.470601	454.238939	906.486585	453.746931	L	<b>1198.610267</b>	599.808772	1181.583718	591.295497	1180.599702	590.803489	9
7	<b>1037.581214</b>	519.294245	1020.554665	510.780971	1019.570649	510.288963	I	1085.526203	543.266740	1068.499654	534.753465	1067.515638	534.261457	8
8	<b>1165.639792</b>	583.323534	1148.613243	574.810260	1147.629227	574.318252	Q	<b>972.442139</b>	486.724708	955.415590	478.211433	954.431574	477.719425	7
9	<b>1328.703121</b>	664.855199	1311.676572	656.341924	1310.692556	655.849916	Y	<b>844.383561</b>	422.695419	827.357012	414.182144	826.372996	413.690136	6
10	1491.766450	746.386863	1474.739901	737.873589	1473.755885	737.381581	Y	<b>681.320232</b>	341.163754	664.293683	332.650480	663.309667	332.158472	5
11	1619.825028	810.416152	1602.798479	801.902878	1601.814463	801.410870	Q	<b>518.256903</b>	259.632090	<b>501.230354</b>	251.118815	500.246338	250.626807	4
12	1734.851971	867.929624	1717.825422	859.416349	1716.841406	858.924341	D	<b>390.198325</b>	195.602800	373.171776	187.089526	<b>372.187760</b>	186.597518	3
13	1862.910549	931.958913	1845.884000	923.445638	1844.899984	922.953630	Q	<b>275.171382</b>	138.089329	258.144833	129.576054			2
14							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [SGVQQLIQYYQDQK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
33.2	2008.008789	0.001159	<a href="#">SGVQQLIQYYQDQK</a>
30.4	2008.008789	0.001159	<a href="#">SGVQQLIQYYQDQK</a>
14.5	2008.008789	0.001159	<a href="#">SGVQQLIQYYQDQK</a>
4.6	2008.008789	0.001159	<a href="#">SGVQQLIQYYQDQK</a>
4.1	2008.005630	0.004318	<a href="#">ITQRMVCAGYKEGGK</a>



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **VAQELEEK**

Found in **APOLI\_HUMAN**, Apolipoprotein L1 OS=Homo sapiens GN=APOL1 PE=1 SV=5

Match to Query 19148: 1255.643468 from(628.829010,2+) rtinseconds(1609) index(43556)

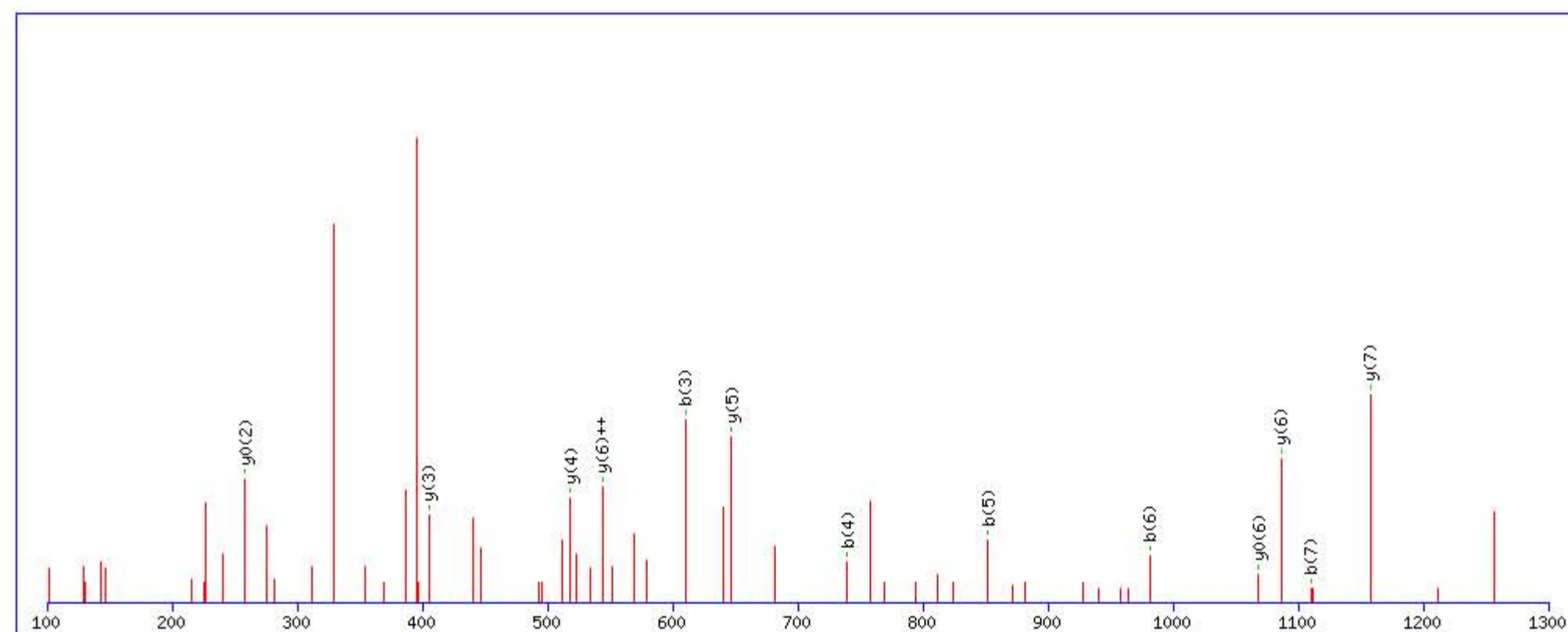
Title: Locus:1.1.1.3273.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1255.648193

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

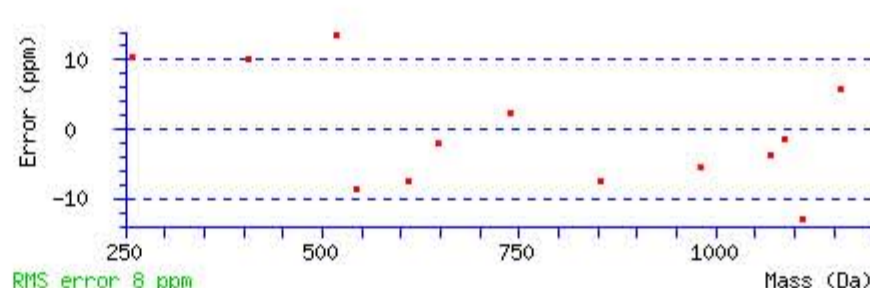
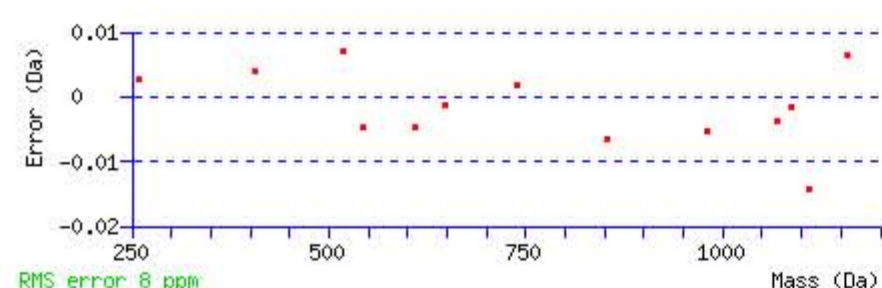
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 31 Expect: 0.018

Matches : 13/72 fragment ions using 23 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							8
2	171.112804	86.060040					A	<b>1157.587087</b>	579.297182	1140.560538	570.783907	1139.576522	570.291899	7
3	<b>610.338130</b>	305.672703	593.311581	297.159429			Q	<b>1086.549973</b>	<b>543.778625</b>	1069.523424	535.265350	<b>1068.539408</b>	534.773342	6
4	<b>739.380723</b>	370.194000	722.354174	361.680725	721.370158	361.188717	E	<b>647.324647</b>	324.165962	630.298098	315.652687	629.314082	315.160679	5
5	<b>852.464787</b>	426.736032	835.438238	418.222757	834.454222	417.730749	L	<b>518.282054</b>	259.644665	501.255505	251.131391	500.271489	250.639383	4
6	<b>981.507380</b>	491.257328	964.480831	482.744054	963.496815	482.252046	E	<b>405.197990</b>	203.102633	388.171441	194.589359	387.187425	194.097351	3
7	<b>1110.549973</b>	555.778625	1093.523424	547.265350	1092.539408	546.773342	E	276.155397	138.581336	259.128848	130.068062	<b>258.144832</b>	129.576054	2
8							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VAQELEEK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
30.9	1255.648193	-0.004725	<a href="#">VAQELEEK</a>
15.3	1255.656067	-0.012599	<a href="#">ALPIQFSHEK</a>
14.4	1255.645508	-0.002040	<a href="#">TRMIEANIHR</a>
10.9	1255.659424	-0.015956	<a href="#">QAEKNVEK</a>
10.5	1255.659439	-0.015971	<a href="#">VALEQTER</a>
9.2	1255.640793	0.002675	<a href="#">DTHKKLEEEK</a>
4.6	1255.634262	0.009206	<a href="#">ADMKHLREEK</a>
4.4	1255.659439	-0.015971	<a href="#">LLIENGVSMHK</a>
3.7	1255.659439	-0.015971	<a href="#">GLQGEKGEK</a>
3.2	1255.629547	0.013921	<a href="#">EKLESAEPPEK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VTEPISAESGEQVER**

Found in **APOLI\_HUMAN**, Apolipoprotein L1 OS=Homo sapiens GN=APOL1 PE=1 SV=5

Match to Query 38179: 1940.944722 from(647.988850,3+) rtinseconds(1751) index(30277)

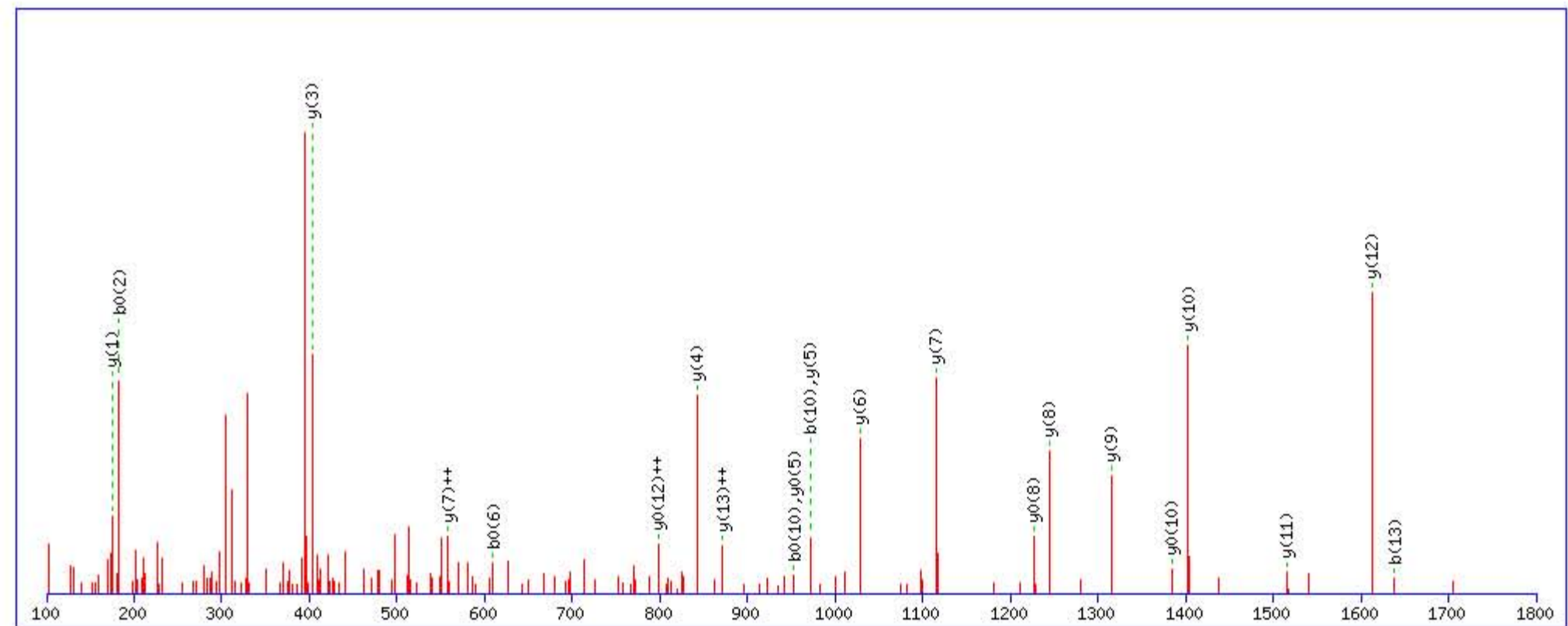
Title: Locus:1.1.1.3273.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1940.951324

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

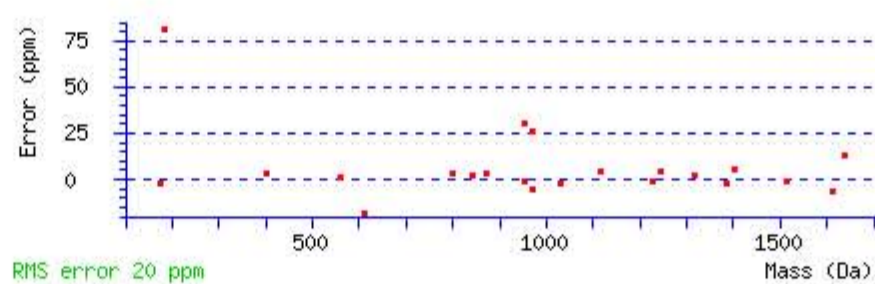
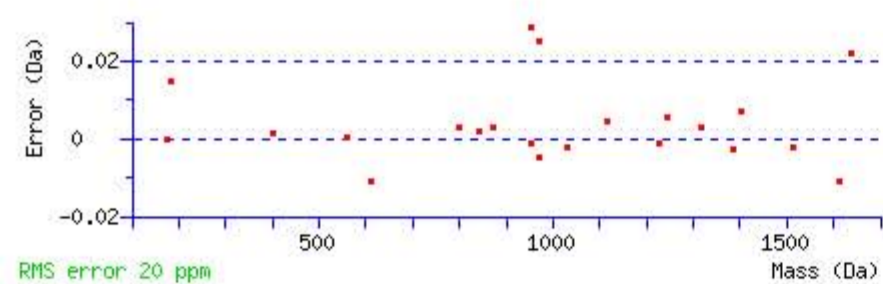
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 76 Expect: 2.3e-007

Matches : 22/142 fragment ions using 33 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							15
2	201.123369	101.065322			183.112804	92.060040	T	1842.890205	921.948741	1825.863656	913.435466	1824.879640	912.943458	14
3	330.165962	165.586619			312.155397	156.581336	E	1741.842526	871.424901	1724.815977	862.911627	1723.831961	862.419619	13
4	427.218726	214.113001			409.208161	205.107719	P	1612.799933	806.903605	1595.773384	798.390330	1594.789368	797.898322	12
5	540.302790	270.655033			522.292225	261.649751	I	1515.747169	758.377223	1498.720620	749.863948	1497.736604	749.371940	11
6	627.334818	314.171047			609.324253	305.165765	S	1402.663105	701.835191	1385.636556	693.321916	1384.652540	692.829908	10
7	698.371932	349.689604			680.361367	340.684322	A	1315.631077	658.319177	1298.604528	649.805902	1297.620512	649.313894	9
8	827.414525	414.210901			809.403960	405.205618	E	1244.593963	622.800620	1227.567414	614.287345	1226.583398	613.795337	8
9	914.446553	457.726915			896.435988	448.721632	S	1115.551370	558.279323	1098.524821	549.766049	1097.540805	549.274041	7
10	971.468017	486.237647			953.457452	477.232364	G	1028.519342	514.763309	1011.492793	506.250035	1010.508777	505.758027	6
11	1100.510610	550.758943			1082.500045	541.753661	E	971.497878	486.252577	954.471329	477.739303	953.487313	477.247295	5
12	1539.735936	770.371606	1522.709387	761.858332	1521.725371	761.366324	Q	842.455285	421.731281	825.428736	413.218006	824.444720	412.725998	4
13	1638.804350	819.905813	1621.777801	811.392539	1620.793785	810.900531	V	403.229959	202.118617	386.203410	193.605343	385.219394	193.113335	3
14	1767.846943	884.427110	1750.820394	875.913835	1749.836378	875.421827	E	304.161545	152.584410	287.134996	144.071136	286.150980	143.579128	2
15							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VTEPISAESGEQVER**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
75.6	1940.951324	-0.006602	<a href="#">VTEPISAESGEQVER</a>
4.8	1940.937378	0.007344	<a href="#">SNNLEREQQLDR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **NQEACELSNN**

Found in **APOM\_HUMAN**, Apolipoprotein M OS=Homo sapiens GN=APOM PE=1 SV=2

Match to Query 26844: 1488.625448 from(745.320000,2+) rtinseconds(1675) index(16971)

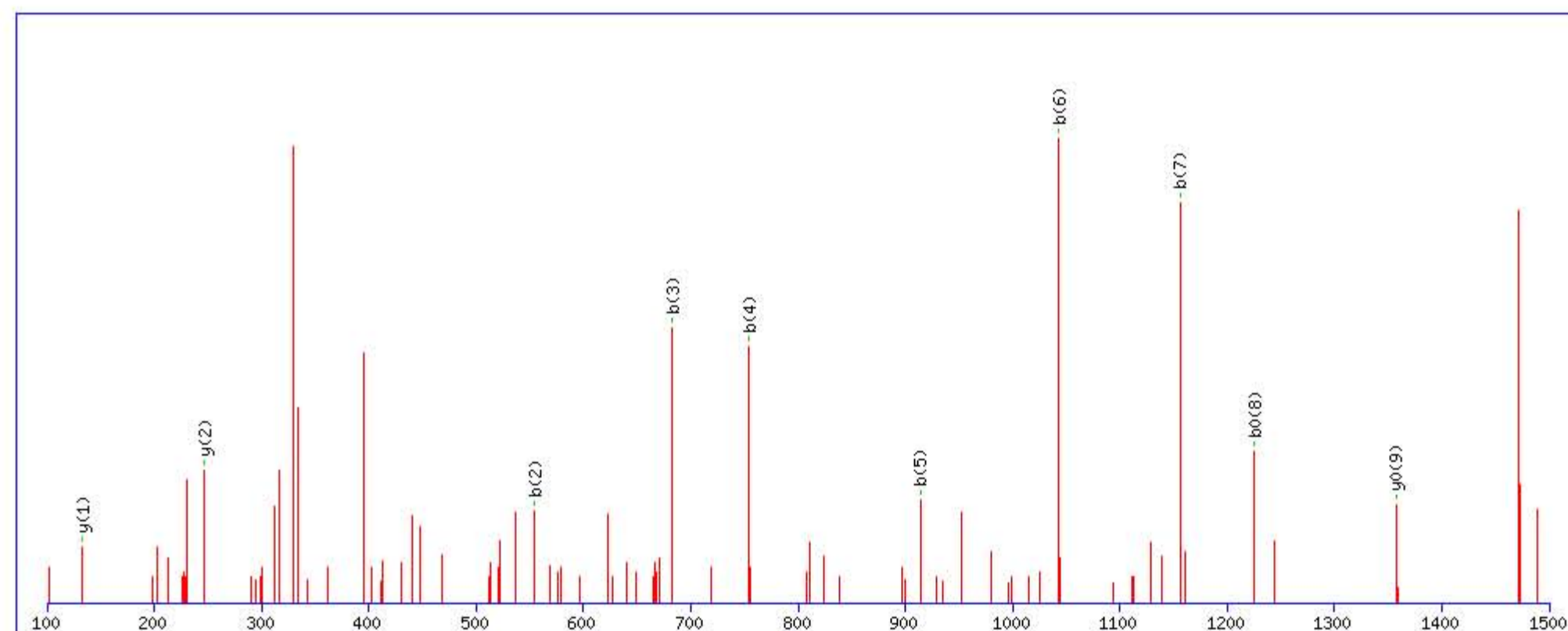
Title: Locus:1.1.1.3149.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1488.633682

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

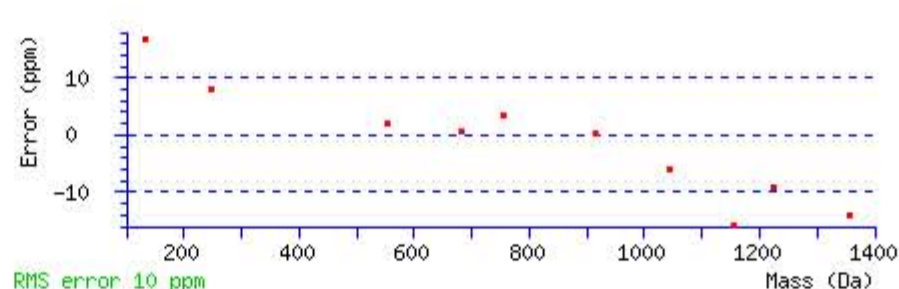
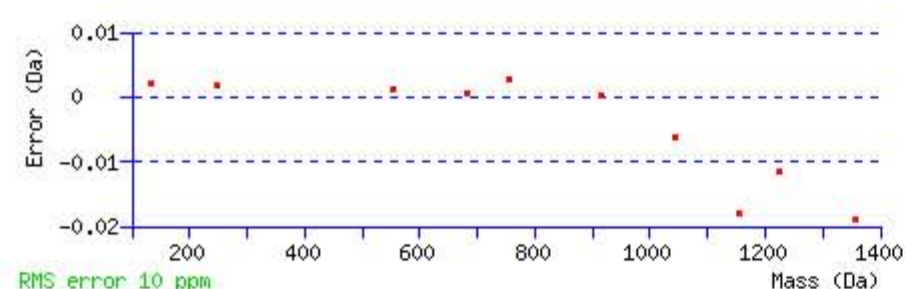
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 56 Expect: 6.6e-006

Matches : 11/100 fragment ions using 14 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							10
2	<b>554.275529</b>	277.641403	537.248980	269.128128			Q	1375.598062	688.302669	1358.571513	679.789395	<b>1357.587497</b>	679.297387	9
3	<b>683.318122</b>	342.162699	666.291573	333.649425	665.307557	333.157417	E	936.372736	468.690006	919.346187	460.176732	918.362171	459.684724	8
4	<b>754.355236</b>	377.681256	737.328687	369.167982	736.344671	368.675974	A	807.330143	404.168710	790.303594	395.655435	789.319578	395.163427	7
5	<b>914.385885</b>	457.696581	897.359336	449.183306	896.375320	448.691298	C	736.293029	368.650153	719.266480	360.136878	718.282464	359.644870	6
6	<b>1043.428478</b>	522.217877	1026.401929	513.704603	1025.417913	513.212595	E	576.262380	288.634828	559.235831	280.121554	558.251815	279.629546	5
7	<b>1156.512542</b>	578.759909	1139.485993	570.246635	1138.501977	569.754626	L	447.219787	224.113531	430.193238	215.600257	429.209222	215.108249	4
8	1243.544570	622.275923	1226.518021	613.762649	<b>1225.534005</b>	613.270641	S	334.135723	167.571499	317.109174	159.058225	316.125158	158.566217	3
9	<b>1357.587497</b>	679.297387	1340.560948	670.784112	1339.576932	670.292104	N	<b>247.103695</b>	124.055485	230.077146	115.542211			2
10							N	<b>133.060768</b>	67.034022	116.034219	58.520747			1



NCBI BLAST search of [NQEACELSNN](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
56.5	1488.633682	-0.008234	<a href="#">NQEACELSNN</a>

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



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **SCALDQNCQWEPR**

Found in **ATRN\_HUMAN**, Attractin OS=Homo sapiens GN=ATRN PE=1 SV=2

Match to Query 38850: 1973.852468 from(987.933510,2+) rtinseconds(1999) index(19073)

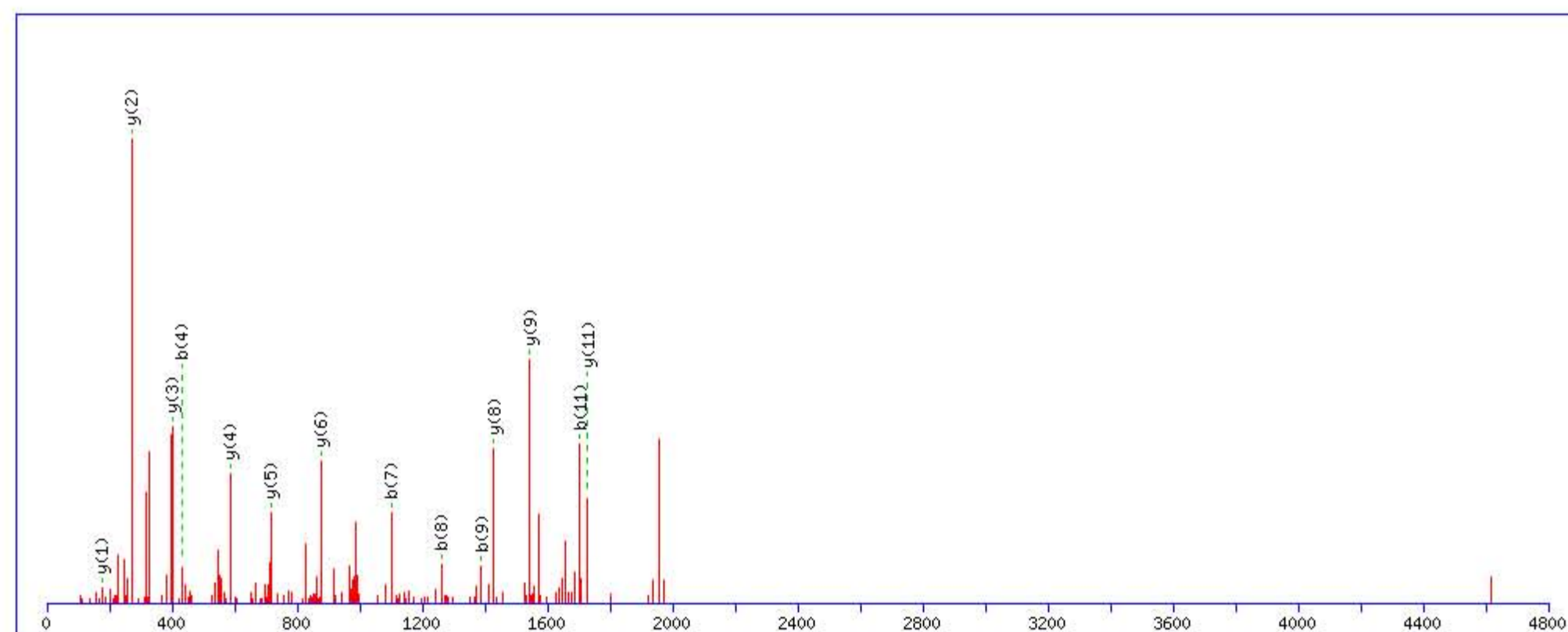
Title: Locus:1.1.1.3261.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1973.854614

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

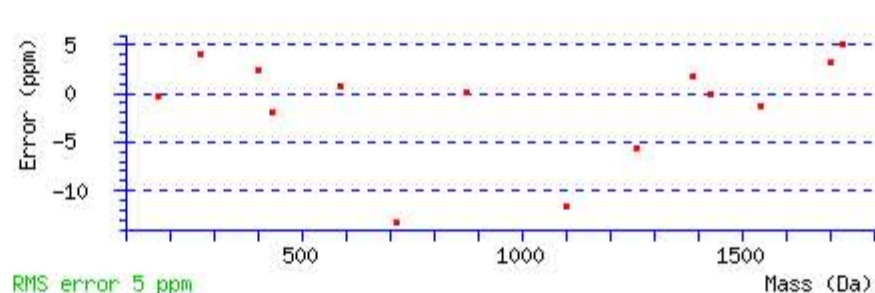
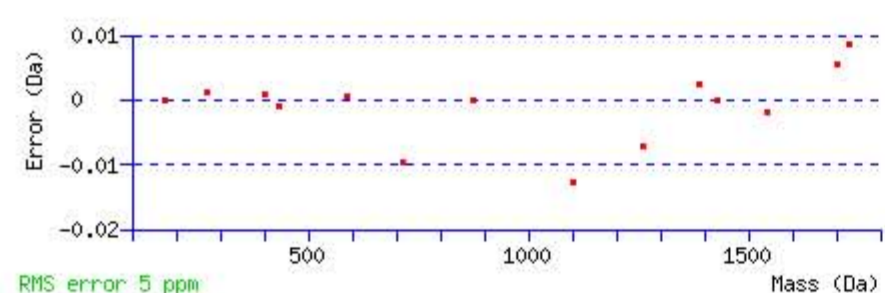
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 76 Expect: 8.5e-008

Matches : 14/130 fragment ions using 18 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							13
2	248.069953	124.538614			230.059388	115.533332	C	1887.829872	944.418574	1870.803323	935.905300	1869.819307	935.413292	12
3	319.107067	160.057171			301.096502	151.051889	A	<b>1727.799223</b>	864.403250	1710.772674	855.889975	1709.788658	855.397967	11
4	<b>432.191131</b>	216.599203			414.180566	207.593921	L	1656.762109	828.884693	1639.735560	820.371418	1638.751544	819.879410	10
5	547.218074	274.112675			529.207509	265.107393	D	<b>1543.678045</b>	772.342661	1526.651496	763.829386	1525.667480	763.337378	9
6	986.443400	493.725338	969.416851	485.212064	968.432835	484.720056	Q	<b>1428.651102</b>	714.829189	1411.624553	706.315915	1410.640537	705.823907	8
7	<b>1100.486327</b>	550.746802	1083.459778	542.233527	1082.475762	541.741519	N	989.425776	495.216526	972.399227	486.703252	971.415211	486.211244	7
8	<b>1260.516976</b>	630.762126	1243.490427	622.248852	1242.506411	621.756844	C	<b>875.382849</b>	438.195063	858.356300	429.681788	857.372284	429.189780	6
9	<b>1388.575554</b>	694.791415	1371.549005	686.278141	1370.564989	685.786133	Q	<b>715.352200</b>	358.179738	698.325651	349.666464	697.341635	349.174456	5
10	1574.654867	787.831072	1557.628318	779.317797	1556.644302	778.825789	W	<b>587.293622</b>	294.150449	570.267073	285.637174	569.283057	285.145166	4
11	<b>1703.697460</b>	852.352368	1686.670911	843.839094	1685.686895	843.347086	E	<b>401.214309</b>	201.110792	384.187760	192.597518	383.203744	192.105510	3
12	1800.750224	900.878750	1783.723675	892.365476	1782.739659	891.873468	P	<b>272.171716</b>	136.589496	255.145167	128.076221			2
13							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SCALDQNCQWEPR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
76.4	1973.854614	-0.002146	<a href="#">SCALDQNCQWEPR</a>
41.9	1973.854614	-0.002146	<a href="#">SCALDQNCQWEPR</a>
13.0	1973.853729	-0.001261	<a href="#">DSPETGEEMGRAEGAWPR</a>
4.3	1973.831284	0.021184	<a href="#">CSDYESIEVPDSYTGPR</a>

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

*MATRIX SCIENCE* Mascot Search Results

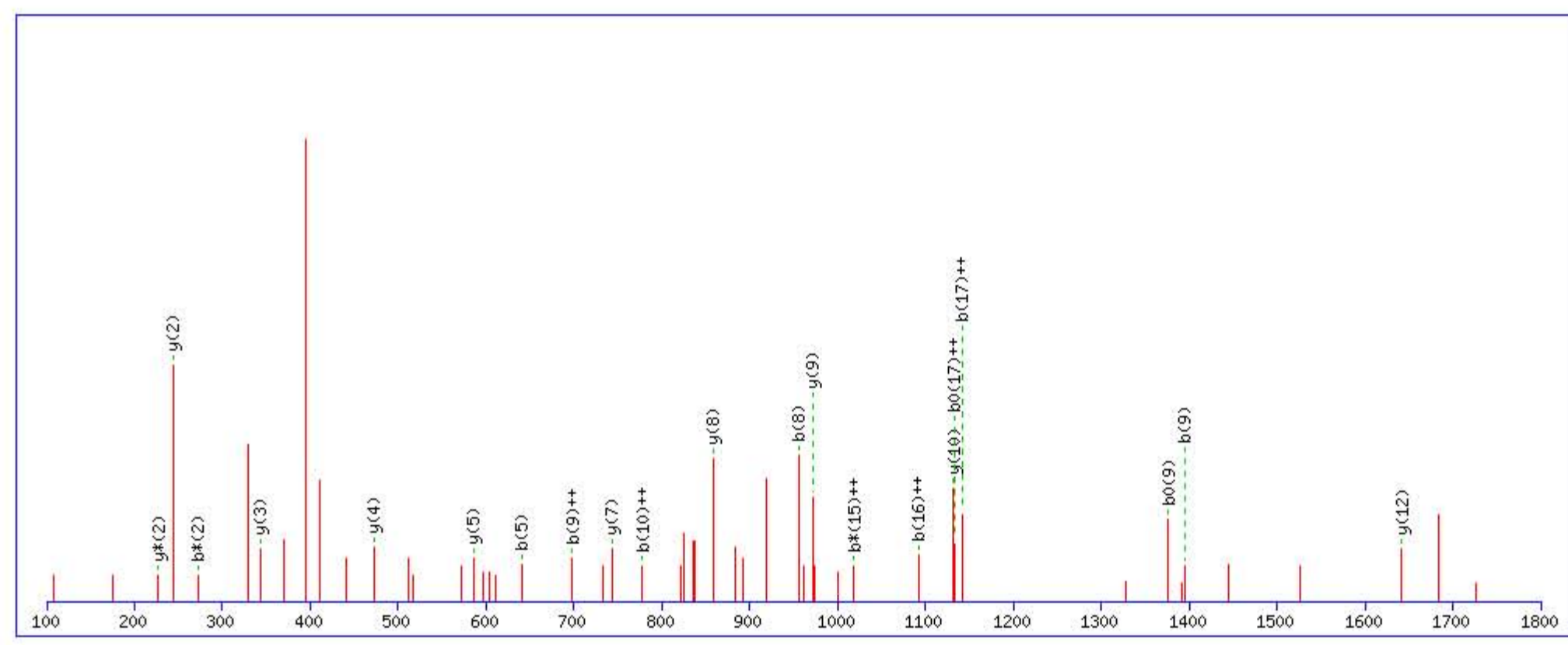
Peptide View

MS/MS Fragmentation of **KCSYTEDAQCIDGTIEVPK**

Found in **APOH\_HUMAN**, Beta-2-glycoprotein 1 OS=Homo sapiens GN=APOH PE=1 SV=3

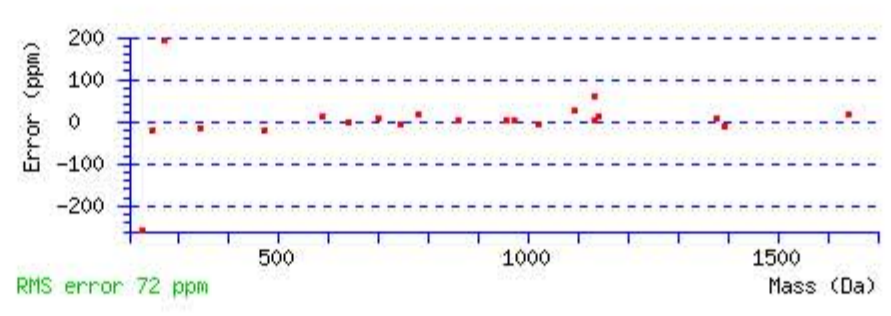
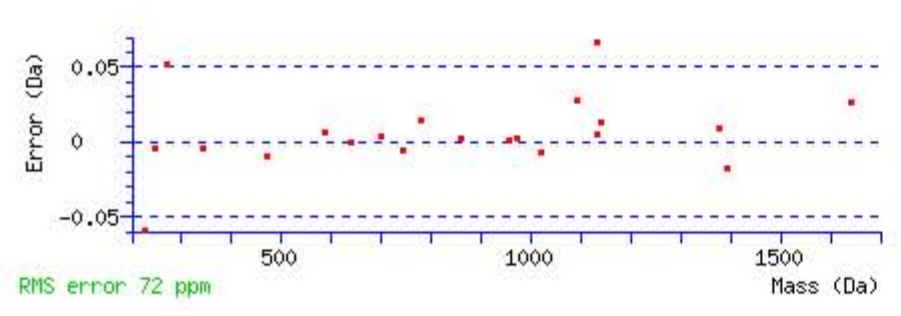
Match to Query 48817: 2524.177632 from(842.399820,3+) rtinseconds(2002) index(60663)  
 Title: Locus:1.1.1.1608.26 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from 100 to 1800 Da Full range  
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2524.164780  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q9 : Biotin:Thermo-21345 (Q)  
 Ions Score: 36 Expect: 0.00055  
 Matches : 21/206 fragment ions using 46 most intense peaks (help)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.102239	65.054757	112.075690	56.541483			K							19
2	289.132888	145.070082	272.106339	136.556808			C	2397.077099	1199.042187	2380.050550	1190.528913	2379.066534	1190.036905	18
3	376.164916	188.586096	359.138367	180.072822	358.154351	179.580814	S	2237.046450	1119.026863	2220.019901	1110.513588	2219.035885	1110.021580	17
4	539.228245	270.117761	522.201696	261.604486	521.217680	261.112478	Y	2150.014422	1075.510849	2132.987873	1066.997574	2132.003857	1066.505566	16
5	640.275924	320.641600	623.249375	312.128326	622.265359	311.636318	T	1986.951093	993.979185	1969.924544	985.465910	1968.940528	984.973902	15
6	769.318517	385.162897	752.291968	376.649622	751.307952	376.157614	E	1885.903414	943.455345	1868.876865	934.942071	1867.892849	934.450063	14
7	884.345460	442.676368	867.318911	434.163094	866.334895	433.671086	D	1756.860821	878.934049	1739.834272	870.420774	1738.850256	869.928766	13
8	955.382574	478.194925	938.356025	469.681650	937.372009	469.189642	A	1641.833878	821.420577	1624.807329	812.907303	1623.823313	812.415295	12
9	1394.607900	697.807588	1377.581351	689.294314	1376.597335	688.802306	Q	1570.796764	785.902020	1553.770215	777.388746	1552.786199	776.896738	11
10	1554.638549	777.822913	1537.612000	769.309638	1536.627984	768.817630	C	1131.571438	566.289357	1114.544889	557.776083	1113.560873	557.284075	10
11	1667.722613	834.364945	1650.696064	825.851670	1649.712048	825.359662	I	971.540789	486.274033	954.514240	477.760758	953.530224	477.268750	9
12	1782.749556	891.878416	1765.723007	883.365142	1764.738991	882.873134	D	858.456725	429.732001	841.430176	421.218726	840.446160	420.726718	8
13	1839.771020	920.389148	1822.744471	911.875874	1821.760455	911.383866	G	743.429782	372.218529	726.403233	363.705255	725.419217	363.213247	7
14	1940.818699	970.912988	1923.792150	962.399713	1922.808134	961.907705	T	686.408318	343.707797	669.381769	335.194523	668.397753	334.702515	6
15	2053.902763	1027.455019	2036.876214	1018.941745	2035.892198	1018.449737	I	585.360639	293.183958	568.334090	284.670683	567.350074	284.178675	5
16	2182.945356	1091.976316	2165.918807	1083.463041	2164.934791	1082.971034	E	472.276575	236.641925	455.250026	228.128651	454.266010	227.636643	4
17	2282.013770	1141.510523	2264.987221	1132.997248	2264.003205	1132.505240	V	343.233982	172.120629	326.207433	163.607354			3
18	2379.066534	1190.036905	2362.039985	1181.523630	2361.055969	1181.031622	P	244.165568	122.586422	227.139019	114.073148			2
19							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **KCSYTEDAQCIDGTIEVPK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
36.0	2524.164780	0.012852	<a href="#">KCSYTEDAQCIDGTIEVPK</a>
1.2	2524.209503	-0.031871	<a href="#">EHIEGGGGPSPDFGKFRAPPR</a>

# MASCOT Search Results

## Peptide View

### MS/MS Fragmentation of **CEVQDR**

Found in **C4BPA\_HUMAN**, C4b-binding protein alpha chain OS=Homo sapiens GN=C4BPA PE=1 SV=2

Match to Query 14674: 1116.503648 from(559.259100,2+) rtinseconds(1345) index(27956)

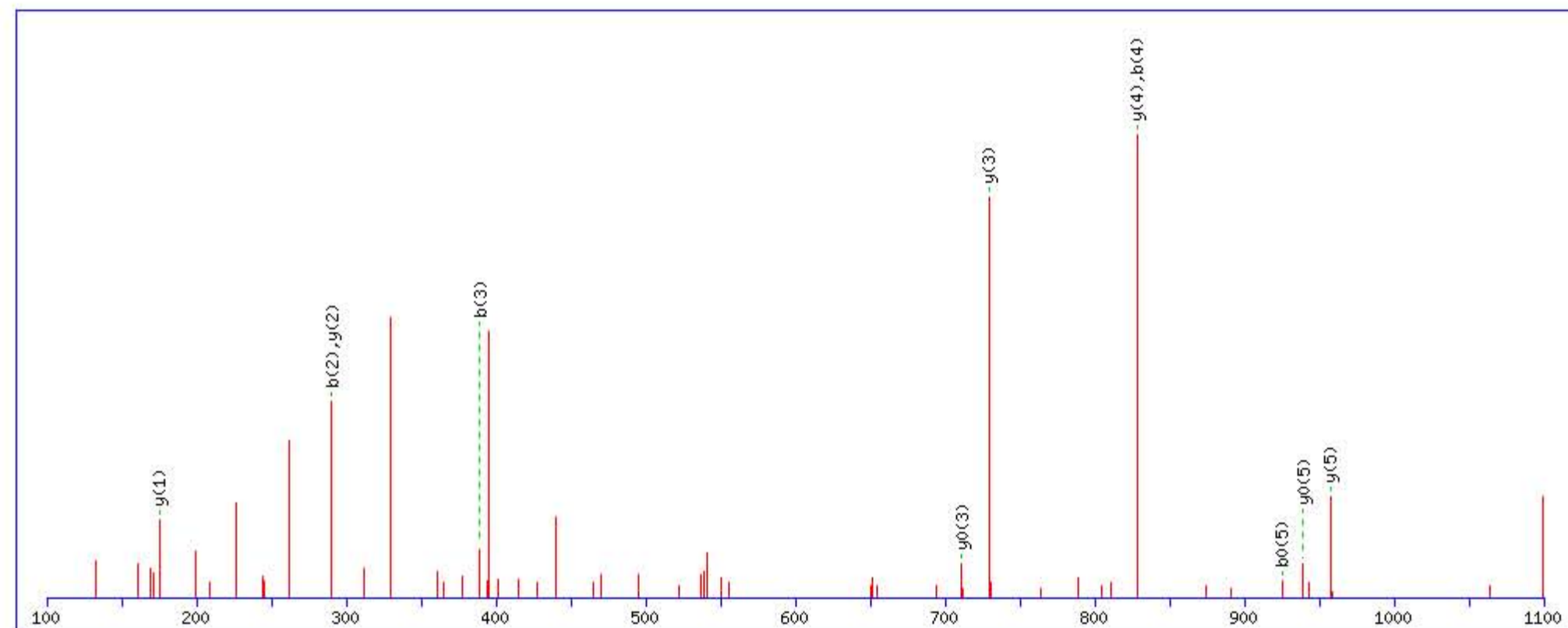
Title: Locus:1.1.1.3131.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1116.505600

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

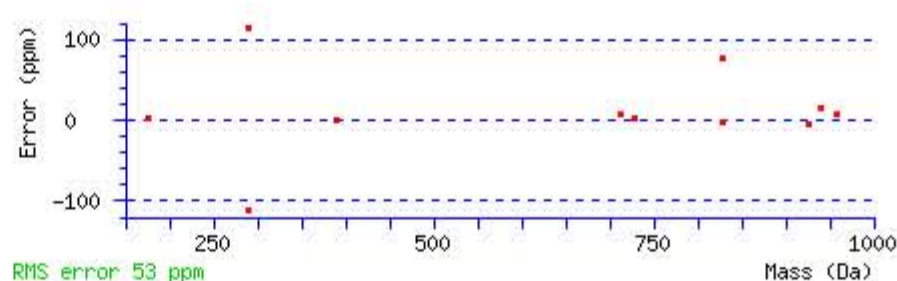
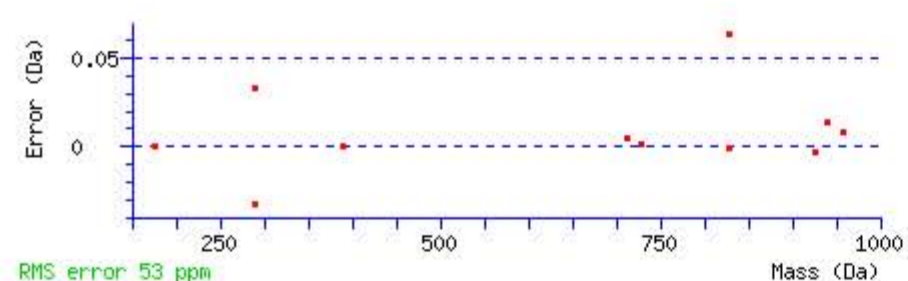
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.01

Matches : 11/50 fragment ions using 20 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	161.037925	81.022600					C							6
2	<b>290.080518</b>	145.543897			272.069953	136.538615	E	<b>957.482228</b>	479.244752	940.455679	470.731478	<b>939.471663</b>	470.239470	5
3	<b>389.148932</b>	195.078104			371.138367	186.072822	V	<b>828.439635</b>	414.723456	811.413086	406.210181	810.429070	405.718173	4
4	<b>828.374258</b>	414.690767	811.347709	406.177493	810.363693	405.685485	Q	<b>729.371221</b>	365.189249	712.344672	356.675974	<b>711.360656</b>	356.183966	3
5	943.401201	472.204239	926.374652	463.690964	<b>925.390636</b>	463.198956	D	<b>290.145895</b>	145.576585	273.119346	137.063311	272.135330	136.571303	2
6							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



### NCBI BLAST search of **CEVQDR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
27.8	1116.505600	-0.001952	<a href="#">CEVQDR</a>
9.6	1116.505600	-0.001952	<a href="#">DICQDR</a>
9.6	1116.486984	0.016664	<a href="#">DTDGQDR</a>
9.6	1116.502228	0.001420	<a href="#">SWDQDR</a>
5.8	1116.486969	0.016679	<a href="#">CETSPSSPR</a>
1.9	1116.502197	0.001451	<a href="#">NEYNFKMR</a>
0.0	1116.504700	-0.001052	<a href="#">ELQAEQEDR</a>

**MASCOT SCIENCE Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **GYILVGQAK**

Found in **C4BPA\_HUMAN**, C4b-binding protein alpha chain OS=Homo sapiens GN=C4BPA PE=1 SV=2

Match to Query 19185: 1258.708668 from(630.361610,2+) rtinseconds(2055) index(32194)

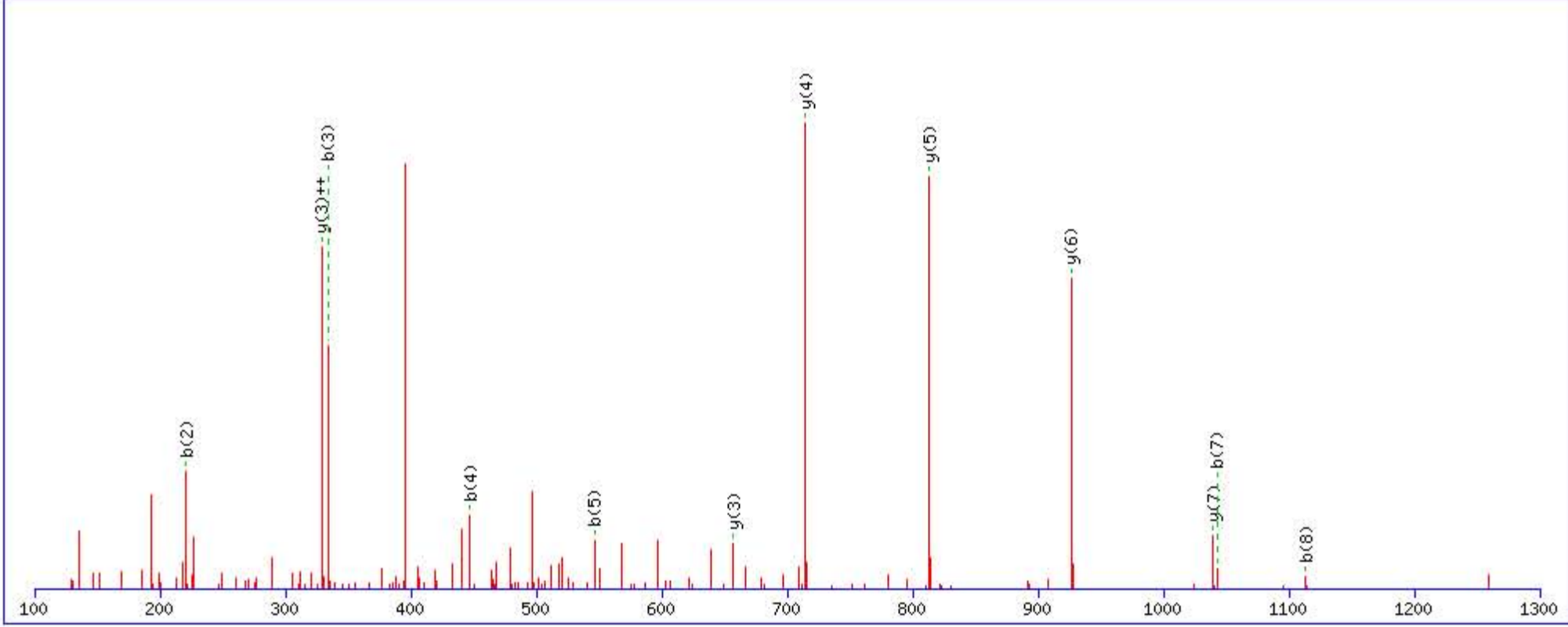
Title: Locus:1.1.1.3379.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1258.710754

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

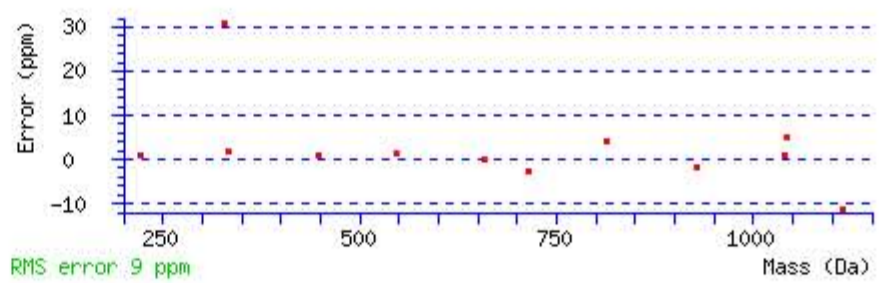
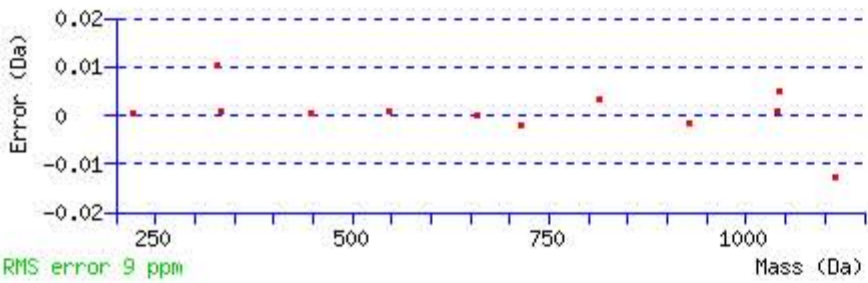
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.021

Matches : 12/52 fragment ions using 28 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>*++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>*++</sup>	#
1	58.028740	29.518008			G					9
2	<b>221.092069</b>	111.049673			Y	1202.696579	601.851928	1185.670030	593.338653	8
3	<b>334.176133</b>	167.591704			I	<b>1039.633250</b>	520.320263	1022.606701	511.806989	7
4	<b>447.260197</b>	224.133737			L	<b>926.549186</b>	463.778231	909.522637	455.264957	6
5	<b>546.328611</b>	273.667944			V	<b>813.465122</b>	407.236199	796.438573	398.722925	5
6	603.350075	302.178676			G	<b>714.396708</b>	357.701992	697.370159	349.188718	4
7	<b>1042.575401</b>	521.791339	1025.548852	513.278064	Q	<b>657.375244</b>	<b>329.191260</b>	640.348695	320.677986	3
8	<b>1113.612515</b>	557.309896	1096.585966	548.796621	A	218.149918	109.578597	201.123369	101.065322	2
9					K	147.112804	74.060040	130.086255	65.546765	1



NCBI BLAST search of [GYILVGQAK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
28.4	1258.710754	-0.002086	<a href="#">GYILVGQAK</a>
10.4	1258.717941	-0.009273	<a href="#">RILAKVQEMR</a>
8.6	1258.721970	-0.013302	<a href="#">GYILQAKR</a>

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



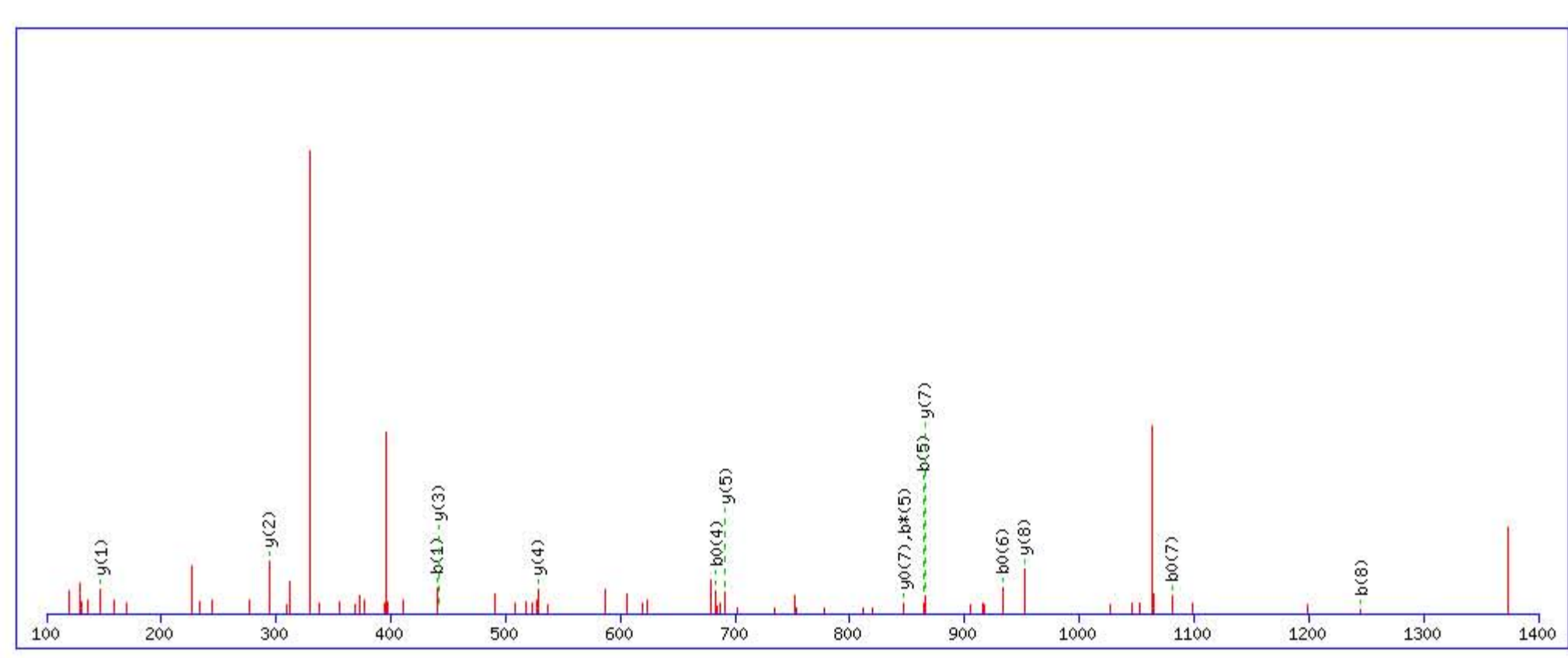
# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **QSSSYSFFK**  
 Found in **C4BPA\_HUMAN**, C4b-binding protein alpha chain OS=Homo sapiens GN=C4BPA PE=1 SV=2

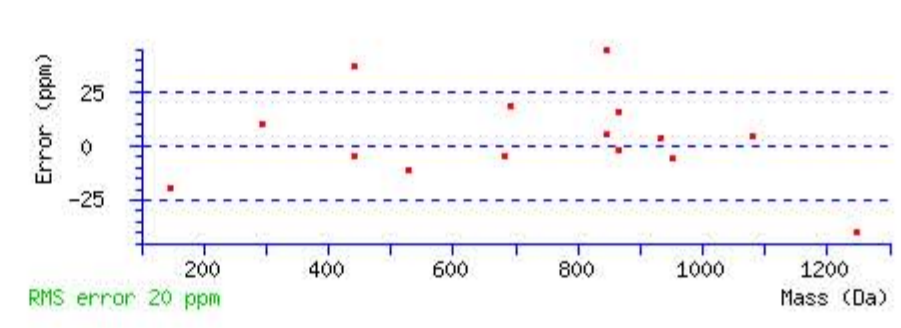
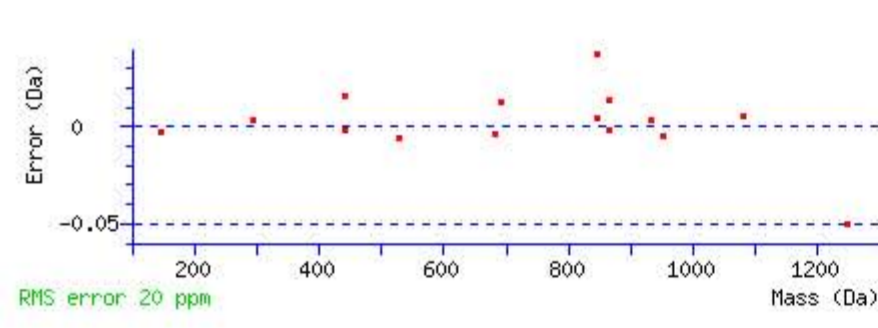
Match to Query 23270: 1390.657968 from(696.336260,2+) rtinseconds(2139) index(32674)  
 Title: Locus:1.1.1.3408.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1390.659119  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q1 : Biotin:Thermo-21345 (Q)  
 Ions Score: 34 Expect: 0.0029  
 Matches : 15/88 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>440.232602</b>	220.619939	423.206053	212.106664			Q							9
2	527.264630	264.135953	510.238081	255.622679	509.254065	255.130671	S	<b>952.441073</b>	476.724175	935.414524	468.210900	934.430508	467.718892	8
3	614.296658	307.651967	597.270109	299.138692	596.286093	298.646684	S	<b>865.409045</b>	433.208161	848.382496	424.694886	<b>847.398480</b>	424.202878	7
4	701.328686	351.167981	684.302137	342.654706	<b>683.318121</b>	342.162698	S	778.377017	389.692147	761.350468	381.178872	760.366452	380.686864	6
5	<b>864.392015</b>	432.699645	<b>847.365466</b>	424.186371	846.381450	423.694363	Y	<b>691.344989</b>	346.176133	674.318440	337.662858	673.334424	337.170850	5
6	951.424043	476.215659	934.397494	467.702385	<b>933.413478</b>	467.210377	S	<b>528.281660</b>	264.644468	511.255111	256.131194	510.271095	255.639186	4
7	1098.492457	549.749866	1081.465908	541.236592	<b>1080.481892</b>	540.744584	F	<b>441.249632</b>	221.128454	424.223083	212.615180			3
8	<b>1245.560871</b>	623.284073	1228.534322	614.770799	1227.550306	614.278791	F	<b>294.181218</b>	147.594247	277.154669	139.080973			2
9							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **QSSSYSFFK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
34.0	1390.659119	-0.001151	<a href="#">QSSSYSFFK</a>
6.4	1390.676208	-0.018240	<a href="#">AEKSSSTDQK</a>
5.9	1390.669678	-0.011710	<a href="#">CAPASIRLMDNK</a>
4.7	1390.655075	0.002893	<a href="#">IHEQDQLYSMK</a>
3.5	1390.676208	-0.018240	<a href="#">LTENNSQPLMTK</a>
2.7	1390.676208	-0.018240	<a href="#">KMVNDAEPDTKK</a>
2.2	1390.673721	-0.015753	<a href="#">QPNCSSLFK</a>
1.6	1390.673706	-0.015738	<a href="#">TLNADLMMFAHK</a>
1.5	1390.646317	0.011651	<a href="#">TNELEEELSAEK</a>
0.9	1390.664963	-0.006995	<a href="#">EEGLEEGLQMK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LNNGEITQHR**

Found in **C4BPA\_HUMAN**, C4b-binding protein alpha chain OS=Homo sapiens GN=C4BPA PE=1 SV=2

Match to Query 26949: 1491.761082 from(498.260970,3+) rtinseconds(1445) index(28470)

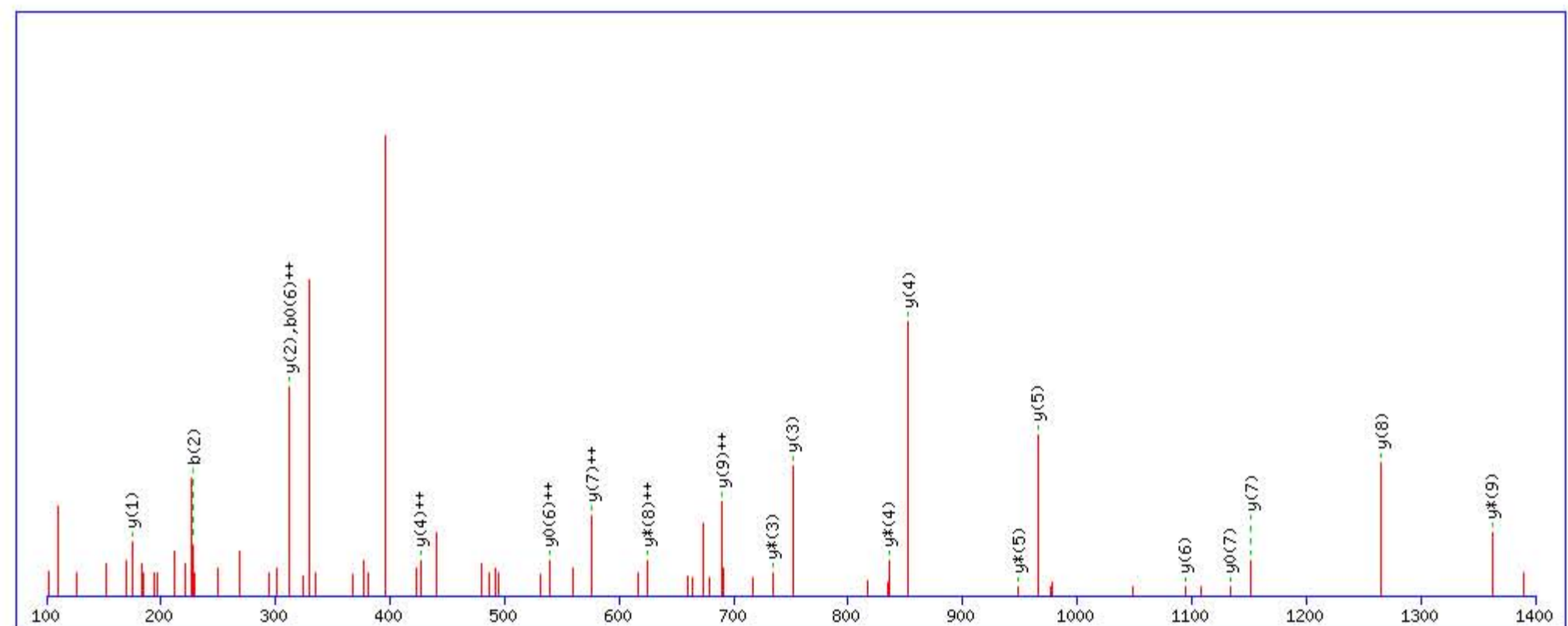
Title: Locus:1.1.1.3166.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1491.761612

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

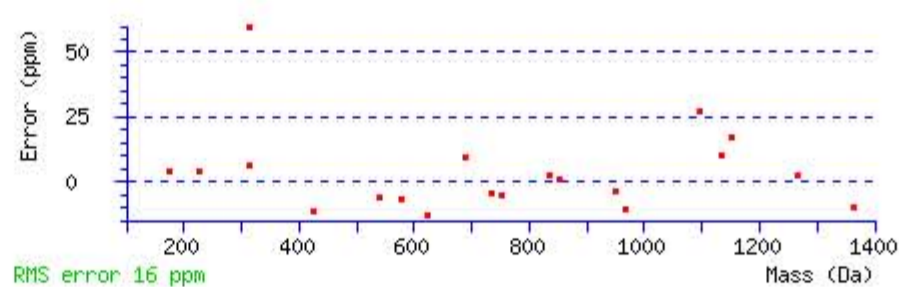
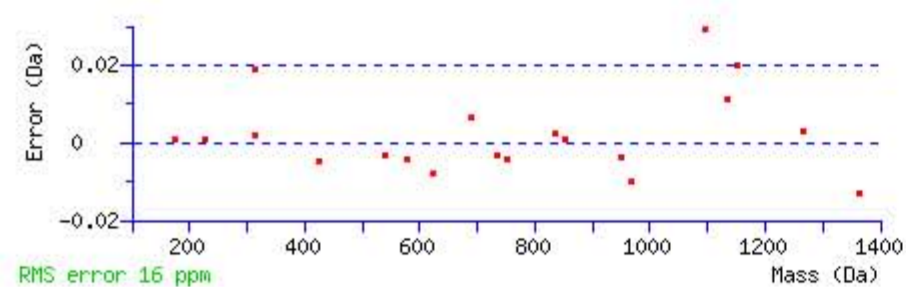
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 44 Expect: 0.00013

Matches : 20/92 fragment ions using 35 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							10
2	228.134267	114.570771	211.107718	106.057497			N	1379.684844	690.346060	1362.658295	681.832786	1361.674279	681.340778	9
3	342.177194	171.592235	325.150645	163.078960			N	1265.641917	633.324596	1248.615368	624.811322	1247.631352	624.319314	8
4	399.198658	200.102967	382.172109	191.589692			G	1151.598990	576.303133	1134.572441	567.789859	1133.588425	567.297850	7
5	528.241251	264.624264	511.214702	256.110989	510.230686	255.618981	E	1094.577526	547.792401	1077.550977	539.279127	1076.566961	538.787119	6
6	641.325315	321.166296	624.298766	312.653021	623.314750	312.161013	I	965.534933	483.271105	948.508384	474.757830	947.524368	474.265822	5
7	742.372994	371.690135	725.346445	363.176861	724.362429	362.684853	T	852.450869	426.729073	835.424320	418.215798	834.440304	417.723790	4
8	1181.598320	591.302798	1164.571771	582.789524	1163.587755	582.297516	Q	751.403190	376.205233	734.376641	367.691959			3
9	1318.657232	659.832254	1301.630683	651.318980	1300.646667	650.826972	H	312.177864	156.592570	295.151315	148.079295			2
10							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LNNGEITQHR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
44.2	1491.761612	-0.000530	<a href="#">LNNGEITQHR</a>
2.7	1491.756927	0.004155	<a href="#">IEEVIGTGSFGEVR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **FSAICQGDGTWSPR**

Found in **C4BPA\_HUMAN**, C4b-binding protein alpha chain OS=Homo sapiens GN=C4BPA PE=1 SV=2

Match to Query 37298: 1891.870092 from(631.630640,3+) rtinseconds(2153) index(32753)

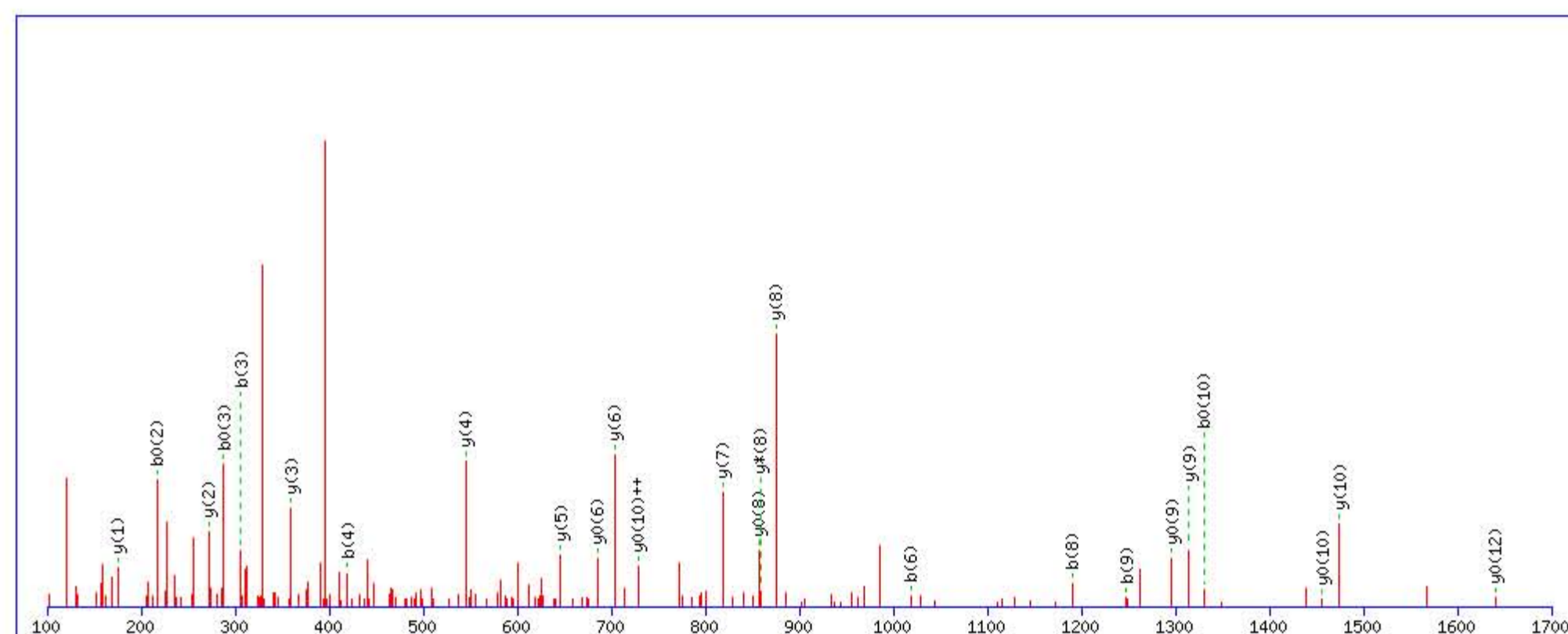
Title: Locus:1.1.1.3413.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1891.870941

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

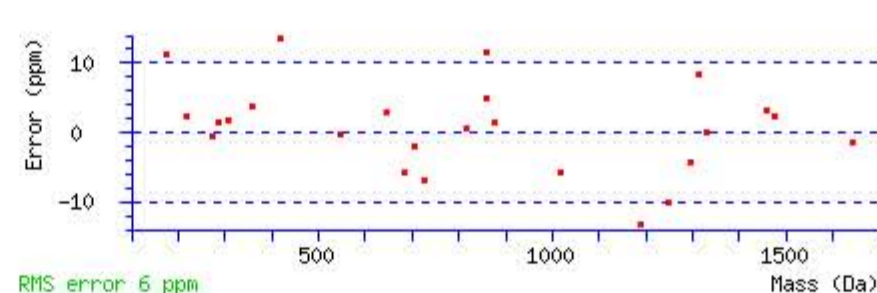
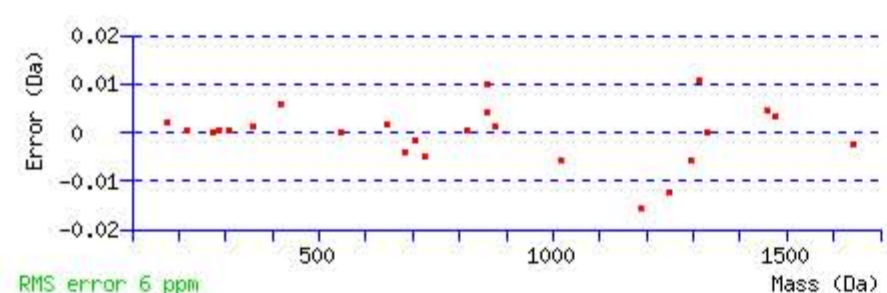
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 46 Expect: 0.00035

Matches : 25/140 fragment ions using 56 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							14
2	235.107718	118.057497			217.097153	109.052214	S	1745.809788	873.408532	1728.783239	864.895258	1727.799223	864.403250	13
3	306.144832	153.576054			288.134267	144.570772	A	1658.777760	829.892518	1641.751211	821.379244	1640.767195	820.887236	12
4	419.228896	210.118086			401.218331	201.112804	I	1587.740646	794.373961	1570.714097	785.860687	1569.730081	785.368678	11
5	579.259545	290.133411			561.248980	281.128128	C	1474.656582	737.831929	1457.630033	729.318655	1456.646017	728.826647	10
6	1018.484871	509.746074	1001.458322	501.232799	1000.474306	500.740791	Q	1314.625933	657.816605	1297.599384	649.303330	1296.615368	648.811322	9
7	1075.506335	538.256806	1058.479786	529.743531	1057.495770	529.251523	G	875.400607	438.203942	858.374058	429.690667	857.390042	429.198659	8
8	1190.533278	595.770277	1173.506729	587.257003	1172.522713	586.764995	D	818.379143	409.693210	801.352594	401.179935	800.368578	400.687927	7
9	1247.554742	624.281009	1230.528193	615.767735	1229.544177	615.275727	G	703.352200	352.179738	686.325651	343.666464	685.341635	343.174456	6
10	1348.602421	674.804849	1331.575872	666.291574	1330.591856	665.799566	T	646.330736	323.669006	629.304187	315.155732	628.320171	314.663724	5
11	1534.681734	767.844505	1517.655185	759.331231	1516.671169	758.839223	W	545.283057	273.145167	528.256508	264.631892	527.272492	264.139884	4
12	1621.713762	811.360519	1604.687213	802.847245	1603.703197	802.355237	S	359.203744	180.105510	342.177195	171.592236	341.193179	171.100228	3
13	1718.766526	859.886901	1701.739977	851.373627	1700.755961	850.881619	P	272.171716	136.589496	255.145167	128.076221			2
14							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [FSAICQGDGTWSPR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
45.6	1891.870941	-0.000849	<a href="#">FSAICQGDGTWSPR</a>

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

# MATRIX SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **GVGWSHPLPQCEIVK**

Found in **C4BPA\_HUMAN**, C4b-binding protein alpha chain OS=Homo sapiens GN=C4BPA PE=1 SV=2

Match to Query 40161: 2017.025472 from(673.349100,3+) rtinseconds(2101) index(32458)

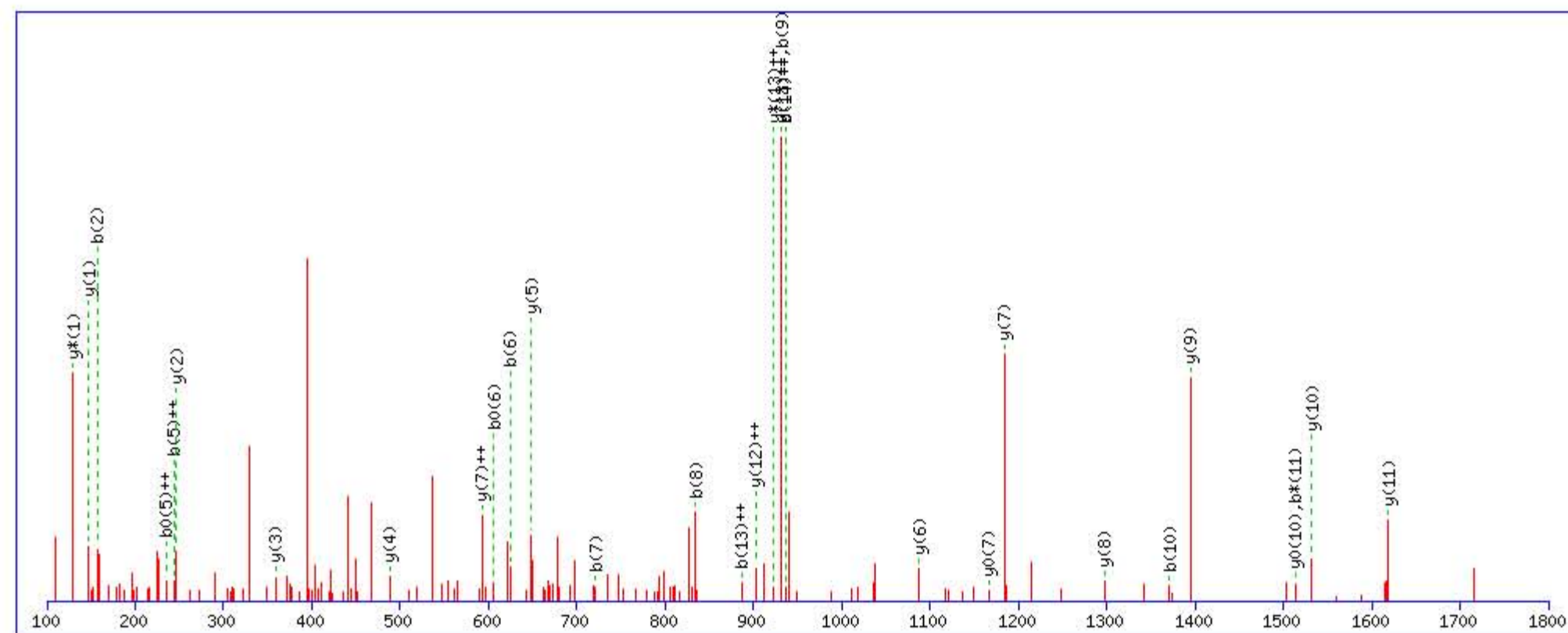
Title: Locus:1.1.1.3395.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2017.027771

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

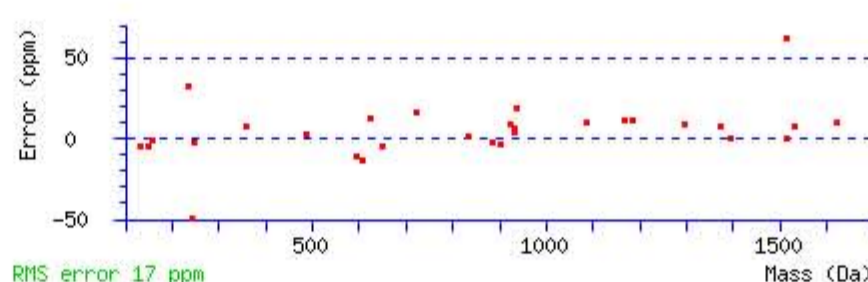
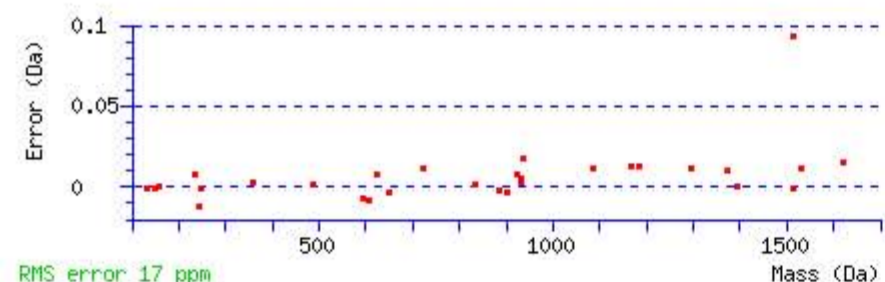
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 37 Expect: 0.0061

Matches : 30/136 fragment ions using 83 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							15
2	<b>157.097154</b>	79.052215					V	1961.013573	981.010425	1943.987024	972.497150	1943.003008	972.005142	14
3	214.118618	107.562947					G	1861.945159	<b>931.476217</b>	1844.918610	<b>922.962943</b>	1843.934594	922.470935	13
4	400.197931	200.602603					W	1804.923695	<b>902.965486</b>	1787.897146	894.452211	1786.913130	893.960203	12
5	487.229959	<b>244.118617</b>			469.219394	<b>235.113335</b>	S	<b>1618.844382</b>	809.925829	1601.817833	801.412555	1600.833817	800.920547	11
6	<b>624.288871</b>	312.648074				<b>606.278306</b>	H	<b>1531.812354</b>	766.409815	1514.785805	757.896541	<b>1513.801789</b>	757.404532	10
7	<b>721.341635</b>	361.174456			703.331070	352.169173	P	<b>1394.753442</b>	697.880359	1377.726893	689.367085	1376.742877	688.875076	9
8	<b>834.425699</b>	417.716488			816.415134	408.711205	L	<b>1297.700678</b>	649.353977	1280.674129	640.840703	1279.690113	640.348694	8
9	<b>931.478463</b>	466.242870			913.467898	457.237587	P	<b>1184.616614</b>	<b>592.811945</b>	1167.590065	584.298670	<b>1166.606049</b>	583.806662	7
10	<b>1370.703789</b>	685.855532	1353.677240	677.342258	1352.693224	676.850250	Q	<b>1087.563850</b>	544.285563	1070.537301	535.772288	1069.553285	535.280280	6
11	1530.734438	765.870857	<b>1513.707889</b>	757.357583	1512.723873	756.865574	C	<b>648.338524</b>	324.672900	631.311975	316.159626	630.327959	315.667618	5
12	1659.777031	830.392153	1642.750482	821.878879	1641.766466	821.386871	E	<b>488.307875</b>	244.657575	471.281326	236.144301	470.297310	235.652293	4
13	1772.861095	<b>886.934185</b>	1755.834546	878.420911	1754.850530	877.928903	I	<b>359.265282</b>	180.136279	342.238733	171.623004			3
14	1871.929509	<b>936.468392</b>	1854.902960	927.955118	1853.918944	927.463110	V	<b>246.181218</b>	123.594247	229.154669	115.080973			2
15							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **GVGWSHPLPQCEIVK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
37.1	2017.027771	-0.002299	<a href="#">GVGWSHPLPQCEIVK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LSCSYSHWSAPAPQCK**

Found in **C4BPA\_HUMAN**, C4b-binding protein alpha chain OS=Homo sapiens GN=C4BPA PE=1 SV=2

Match to Query 43071: 2188.980522 from(730.667450,3+) rtinseconds(1778) index(30448)

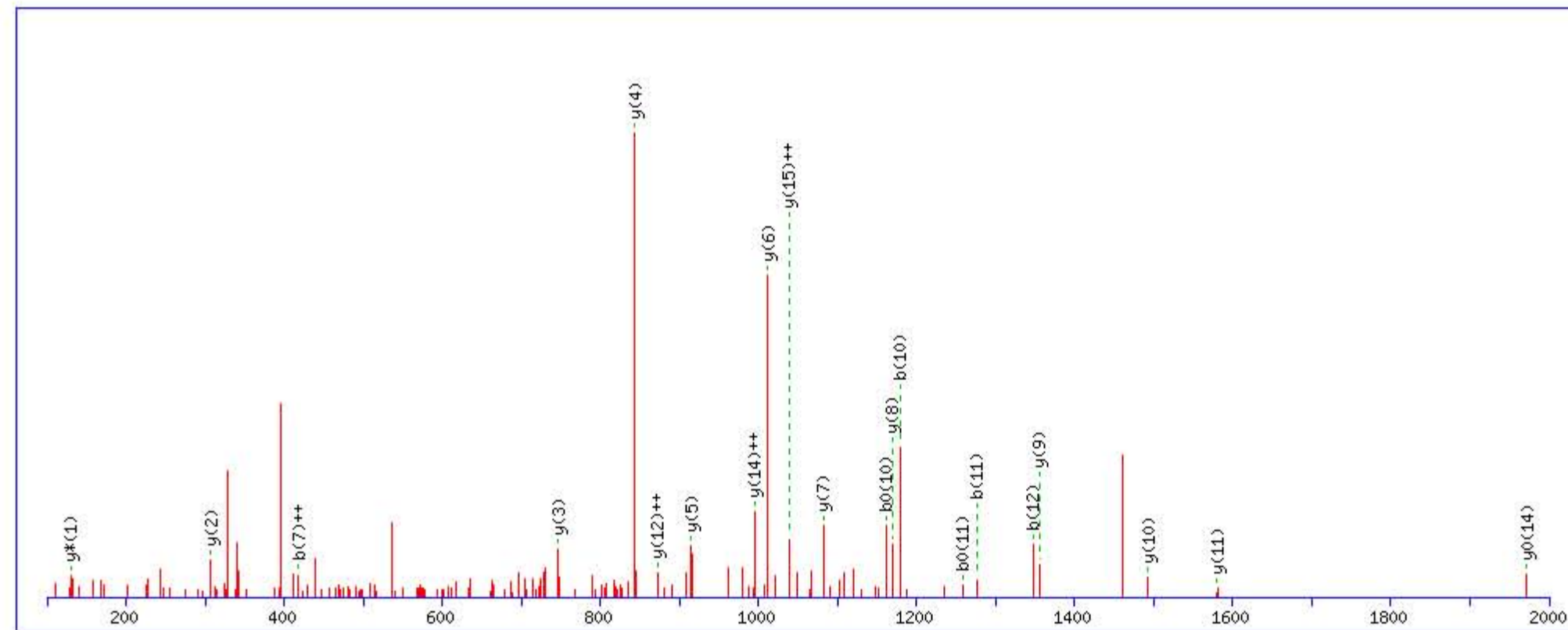
Title: Locus:1.1.1.3282.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2188.985626

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

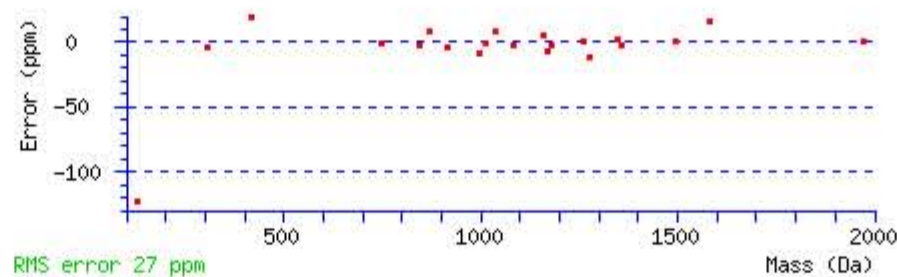
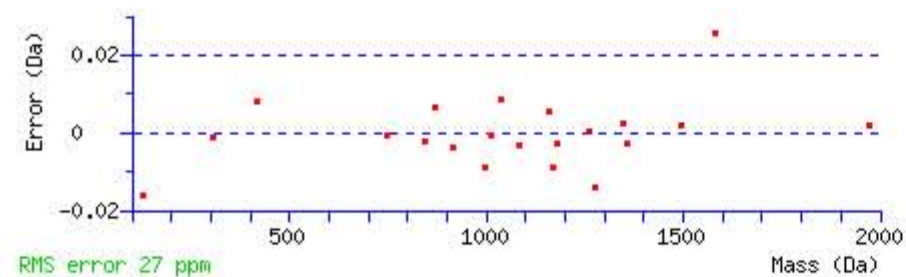
Variable modifications:

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 48 Expect: 0.00016

Matches : 21/138 fragment ions using 44 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							16
2	201.123368	101.065322			183.112803	92.060039	S	2076.908850	1038.958063	2059.882301	1030.444788	2058.898285	1029.952780	15
3	361.154017	181.080647			343.143452	172.075364	C	1989.876822	995.442049	1972.850273	986.928775	1971.866257	986.436767	14
4	448.186045	224.596660			430.175480	215.591378	S	1829.846173	915.426725	1812.819624	906.913450	1811.835608	906.421442	13
5	611.249374	306.128325			593.238809	297.123043	Y	1742.814145	871.910711	1725.787596	863.397436	1724.803580	862.905428	12
6	698.281402	349.644339			680.270837	340.639056	S	1579.750816	790.379046	1562.724267	781.865772	1561.740251	781.373764	11
7	835.340314	418.173795			817.329749	409.168512	H	1492.718788	746.863032	1475.692239	738.349758	1474.708223	737.857750	10
8	1021.419627	511.213452			1003.409062	502.208169	W	1355.659876	678.333576	1338.633327	669.820302	1337.649311	669.328294	9
9	1108.451655	554.729466			1090.441090	545.724183	S	1169.580563	585.293920	1152.554014	576.780645	1151.569998	576.288637	8
10	1179.488769	590.248023			1161.478204	581.242740	A	1082.548535	541.777906	1065.521986	533.264631			7
11	1276.541533	638.774405			1258.530968	629.769122	P	1011.511421	506.259349	994.484872	497.746074			6
12	1347.578647	674.292962			1329.568082	665.287679	A	914.458657	457.732967	897.432108	449.219692			5
13	1444.631411	722.819344			1426.620846	713.814061	P	843.421543	422.214410	826.394994	413.701135			4
14	1883.856737	942.432007	1866.830188	933.918732	1865.846172	933.426724	Q	746.368779	373.688028	729.342230	365.174753			3
15	2043.887386	1022.447331	2026.860837	1013.934057	2025.876821	1013.442049	C	307.143453	154.075365	290.116904	145.562090			2
16							K	147.112804	74.060040	130.086255	65.546766			1



NCBI BLAST search of **LSCSYSHWSAPAPQCK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
47.7	2188.985626	-0.005104	<a href="#">LSCSYSHWSAPAPQCK</a>

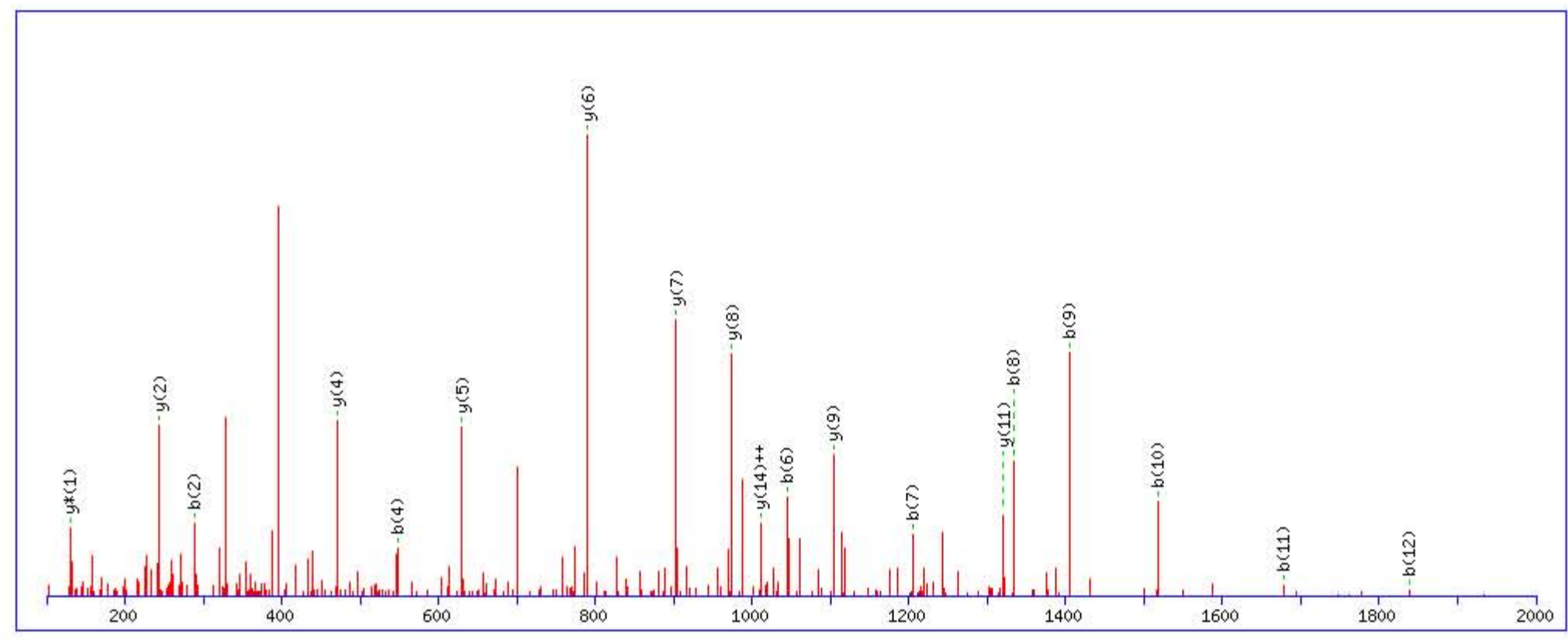
Mascot: <http://www.matrixscience.com/>

**Peptide View**

MS/MS Fragmentation of **WTPYQGCEALCCPEPK**  
 Found in **C4BPA\_HUMAN**, C4b-binding protein alpha chain OS=Homo sapiens GN=C4BPA PE=1 SV=2

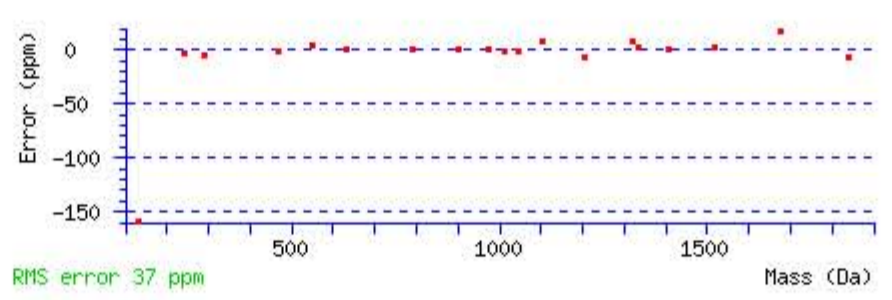
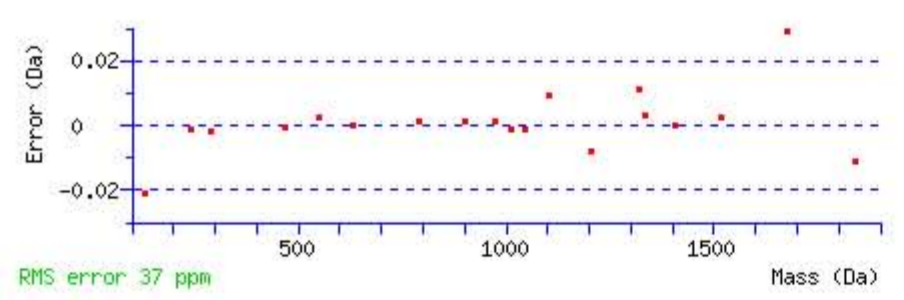
Match to Query 45205: 2305.997022 from(769.672950,3+) rtinseconds(2122) index(32586)  
 Title: Locus:1.1.1.3402.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2305.999237  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q5 : Biotin:Thermo-21345 (Q)  
 Ions Score: 48 Expect: 5.9e-005  
 Matches : 19/166 fragment ions using 37 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	187.086589	94.046932					W							16
2	<b>288.134268</b>	144.570772			270.123703	135.565490	T	2120.927205	1060.967240	2103.900656	1052.453966	2102.916640	1051.961958	15
3	385.187032	193.097154			367.176467	184.091872	P	2019.879526	<b>1010.443401</b>	2002.852977	1001.930127	2001.868961	1001.438119	14
4	<b>548.250361</b>	274.628819			530.239796	265.623536	Y	1922.826762	961.917019	1905.800213	953.403745	1904.816197	952.911737	13
5	987.475687	494.241482	970.449138	485.728207	969.465122	485.236199	Q	1759.763433	880.385355	1742.736884	871.872080	1741.752868	871.380072	12
6	<b>1044.497151</b>	522.752214	1027.470602	514.238939	1026.486586	513.746931	G	<b>1320.538107</b>	660.772692	1303.511558	652.259417	1302.527542	651.767409	11
7	<b>1204.527800</b>	602.767538	1187.501251	594.254264	1186.517235	593.762256	C	1263.516643	632.261960	1246.490094	623.748685	1245.506078	623.256677	10
8	<b>1333.570393</b>	667.288835	1316.543844	658.775560	1315.559828	658.283552	E	<b>1103.485994</b>	552.246635	1086.459445	543.733361	1085.475429	543.241353	9
9	<b>1404.607507</b>	702.807392	1387.580958	694.294117	1386.596942	693.802109	A	<b>974.443401</b>	487.725339	957.416852	479.212064	956.432836	478.720056	8
10	<b>1517.691571</b>	759.349424	1500.665022	750.836149	1499.681006	750.344141	L	<b>903.406287</b>	452.206782	886.379738	443.693507	885.395722	443.201499	7
11	<b>1677.722220</b>	839.364748	1660.695671	830.851474	1659.711655	830.359466	C	<b>790.322223</b>	395.664750	773.295674	387.151475	772.311658	386.659467	6
12	<b>1837.752869</b>	919.380073	1820.726320	910.866798	1819.742304	910.374790	C	<b>630.291574</b>	315.649425	613.265025	307.136151	612.281009	306.644143	5
13	1934.805633	967.906455	1917.779084	959.393180	1916.795068	958.901172	P	<b>470.260925</b>	235.634101	453.234376	227.120826	452.250360	226.628818	4
14	2063.848226	1032.427751	2046.821677	1023.914477	2045.837661	1023.422469	E	373.208161	187.107719	356.181612	178.594444	355.197596	178.102436	3
15	2160.900990	1080.954133	2143.874441	1072.440858	2142.890425	1071.948850	P	<b>244.165568</b>	122.586422	227.139019	114.073148			2
16							K	147.112804	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **WTPYQGCEALCCPEPK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
48.3	2305.999237	-0.002215	<a href="#">WTPYQGCEALCCPEPK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **CHPGYKPTTDEPTTVICQK**

Found in **C4BPA\_HUMAN**, C4b-binding protein alpha chain OS=Homo sapiens GN=C4BPA PE=1 SV=2

Match to Query 48975: 2542.189002 from(848.403610,3+) rtinseconds(1629) index(29620)

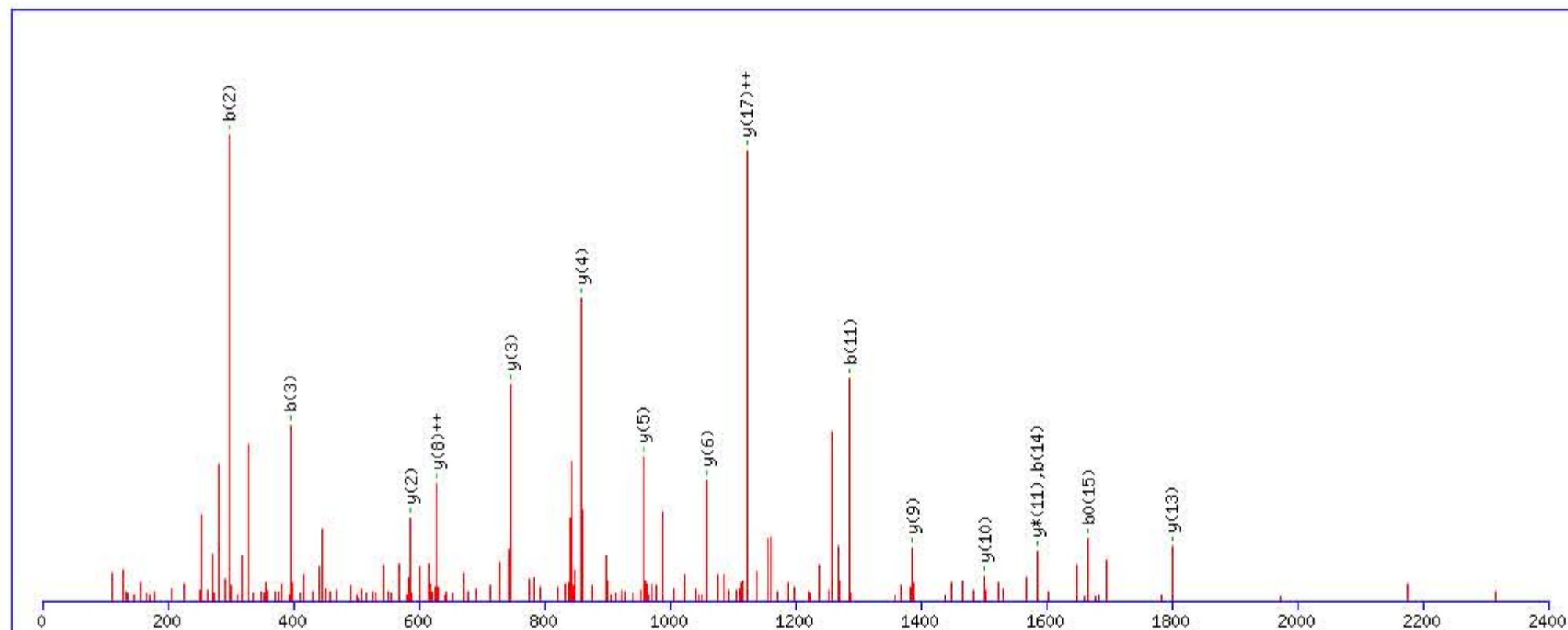
Title: Locus:1.1.1.3230.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2542.201859

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

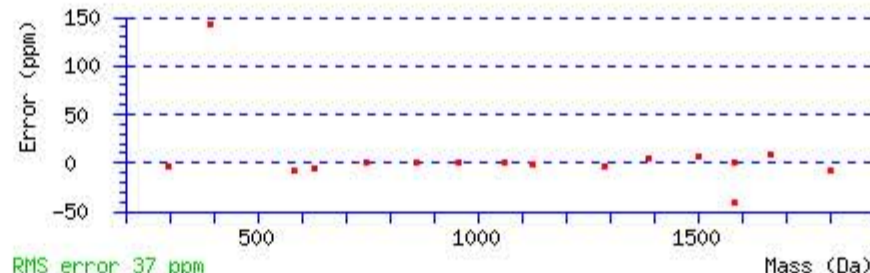
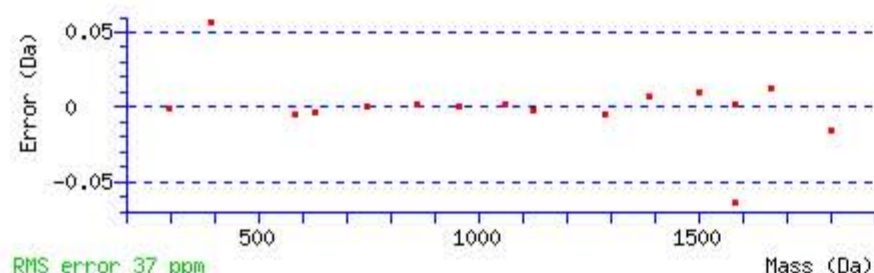
Variable modifications:

Q18 : Biotin:Thermo-21345 (Q)

Ions Score: 55 Expect: 4.8e-005

Matches : 16/182 fragment ions using 20 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	161.037925	81.022600					C							19
2	<b>298.096837</b>	149.552056					H	2383.178469	1192.092872	2366.151920	1183.579598	2365.167904	1183.087590	18
3	<b>395.149601</b>	198.078439					P	2246.119557	<b>1123.563416</b>	2229.093008	1115.050142	2228.108992	1114.558134	17
4	452.171065	226.589170					G	2149.066793	1075.037034	2132.040244	1066.523760	2131.056228	1066.031752	16
5	615.234394	308.120835					Y	2092.045329	1046.526302	2075.018780	1038.013028	2074.034764	1037.521020	15
6	743.329357	372.168317	726.302808	363.655042			K	1928.982000	964.994638	1911.955451	956.481364	1910.971435	955.989356	14
7	840.382121	420.694699	823.355572	412.181424			P	<b>1800.887037</b>	900.947157	1783.860488	892.433882	1782.876472	891.941874	13
8	941.429800	471.218538	924.403251	462.705264	923.419235	462.213256	T	1703.834273	852.420775	1686.807724	843.907500	1685.823708	843.415492	12
9	1042.477479	521.742378	1025.450930	513.229103	1024.466914	512.737095	T	1602.786594	801.896935	<b>1585.760045</b>	793.383661	1584.776029	792.891653	11
10	1157.504422	579.255849	1140.477873	570.742575	1139.493857	570.250567	D	<b>1501.738915</b>	751.373096	1484.712366	742.859821	1483.728350	742.367813	10
11	<b>1286.547015</b>	643.777146	1269.520466	635.263871	1268.536450	634.771863	E	<b>1386.711972</b>	693.859624	1369.685423	685.346350	1368.701407	684.854342	9
12	1383.599779	692.303528	1366.573230	683.790253	1365.589214	683.298245	P	1257.669379	<b>629.338328</b>	1240.642830	620.825053	1239.658814	620.333045	8
13	1484.647458	742.827367	1467.620909	734.314093	1466.636893	733.822085	T	1160.616615	580.811946	1143.590066	572.298671	1142.606050	571.806663	7
14	<b>1585.695137</b>	793.351207	1568.668588	784.837932	1567.684572	784.345924	T	<b>1059.568936</b>	530.288106	1042.542387	521.774832	1041.558371	521.282824	6
15	1684.763551	842.885414	1667.737002	834.372139	<b>1666.752986</b>	833.880131	V	<b>958.521257</b>	479.764267	941.494708	471.250992			5
16	1797.847615	899.427446	1780.821066	890.914171	1779.837050	890.422163	I	<b>859.452843</b>	430.230060	842.426294	421.716785			4
17	1957.878264	979.442770	1940.851715	970.929496	1939.867699	970.437488	C	<b>746.368779</b>	373.688028	729.342230	365.174753			3
18	2397.103590	1199.055433	2380.077041	1190.542158	2379.093025	1190.050151	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
19							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **CHPGYKPTTDEPTTVICQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
55.4	2542.201859	-0.012857	<a href="#">CHPGYKPTTDEPTTVICQK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **ALLAFQESK**

Found in **C4BPB\_HUMAN**, C4b-binding protein beta chain OS=Homo sapiens GN=C4BPB PE=1 SV=1

Match to Query 20631: 1316.719948 from(659.367250,2+) rtinseconds(2243) index(47506)

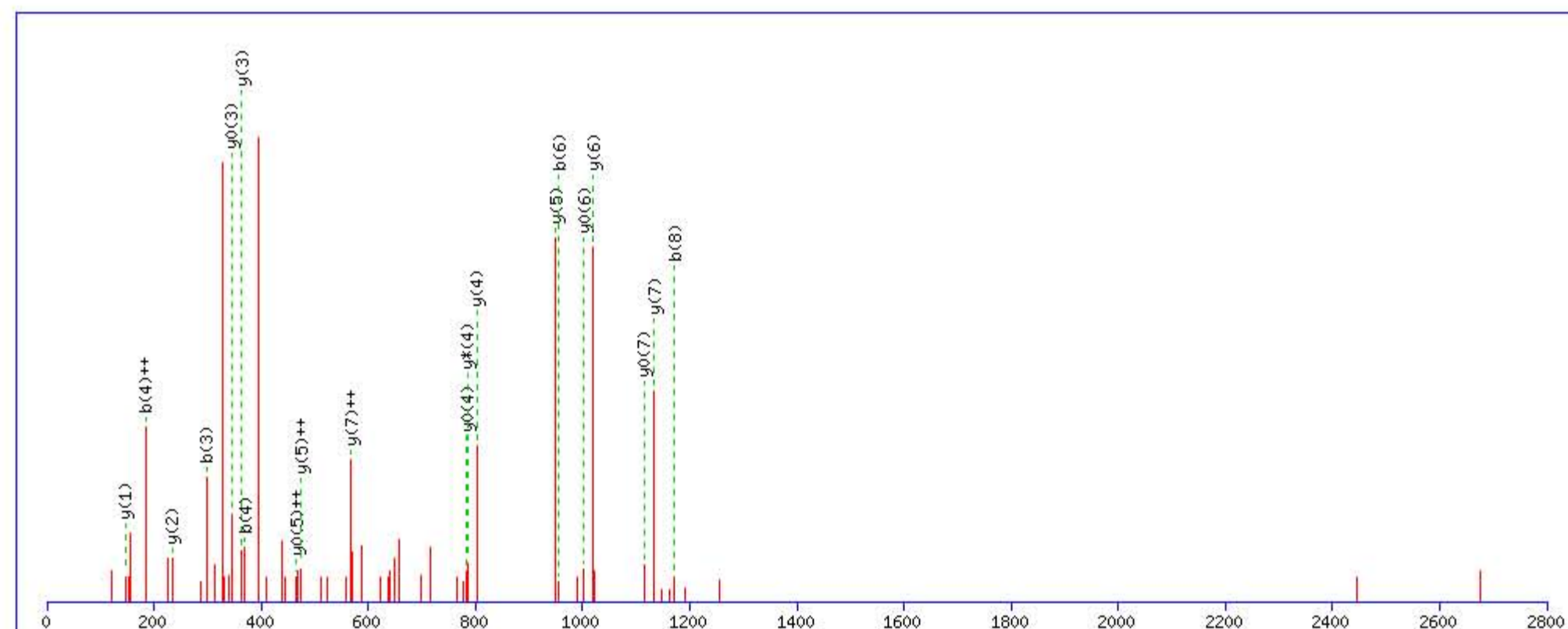
Title: Locus:1.1.1.3493.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1316.716217

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

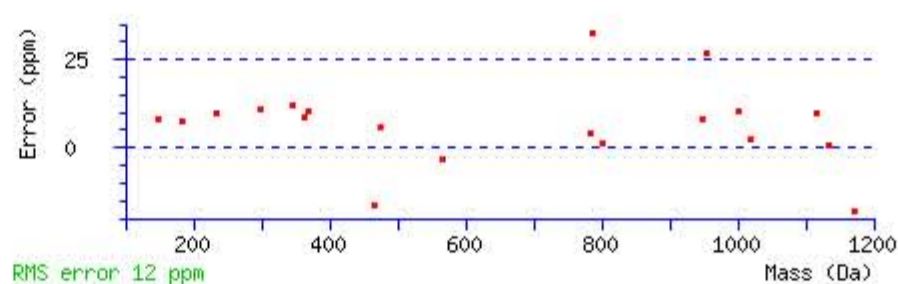
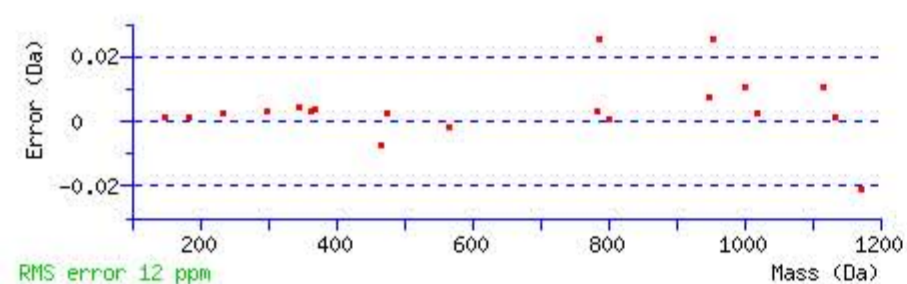
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 31 Expect: 0.0061

Matches : 21/72 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							9
2	<b>185.128454</b>	93.067865					L	1246.686407	623.846842	1229.659858	615.333567	1228.675842	614.841559	8
3	<b>298.212518</b>	149.609897					L	<b>1133.602343</b>	<b>567.304810</b>	1116.575794	558.791535	<b>1115.591778</b>	558.299527	7
4	<b>369.249632</b>	<b>185.128454</b>					A	<b>1020.518279</b>	510.762778	1003.491730	502.249503	<b>1002.507714</b>	501.757495	6
5	516.318046	258.662661					F	<b>949.481165</b>	<b>475.244221</b>	932.454616	466.730946	931.470600	<b>466.238938</b>	5
6	<b>955.543372</b>	478.275324	938.516823	469.762049			Q	<b>802.412751</b>	401.710014	<b>785.386202</b>	393.196739	<b>784.402186</b>	392.704731	4
7	1084.585965	542.796621	1067.559416	534.283346	1066.575400	533.791338	E	<b>363.187425</b>	182.097351	346.160876	173.584076	<b>345.176860</b>	173.092068	3
8	<b>1171.617993</b>	586.312635	1154.591444	577.799360	1153.607428	577.307352	S	<b>234.144832</b>	117.576054	217.118283	109.062780	216.134267	108.570772	2
9							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [ALLAFQESK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
30.9	1316.716217	0.003731	<a href="#">ALLAFQESK</a>
7.1	1316.731293	-0.011345	<a href="#">RVLAFISRNQN</a>
5.5	1316.704788	0.015160	<a href="#">RATEEISKDLR</a>
4.9	1316.733994	-0.014046	<a href="#">LALVINGDFLDK</a>

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









# **MATRIX SCIENCE** Mascot Search Results

## Peptide View

### MS/MS Fragmentation of **SIPQVSPVR**

Found in **CBPN\_HUMAN**, Carboxypeptidase N catalytic chain OS=Homo sapiens GN=CPN1 PE=1 SV=1

Match to Query 20236: 1292.723608 from(647.369080,2+) rtinseconds(1900) index(31110)

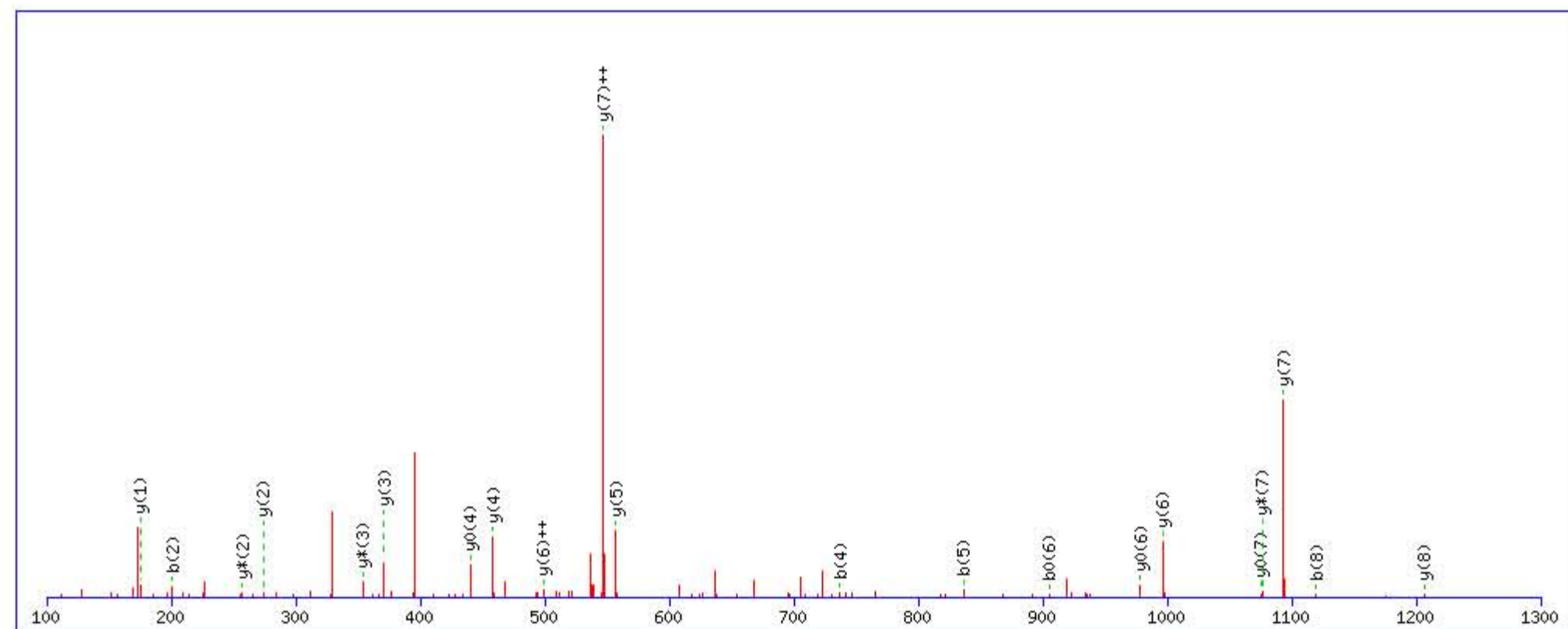
Title: Locus:1.1.1.3325.19 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1292.727478

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

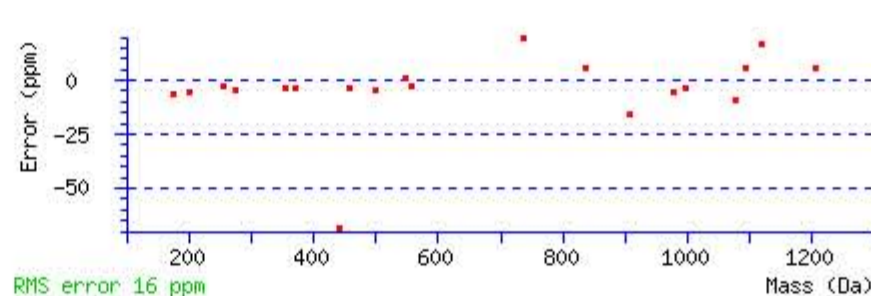
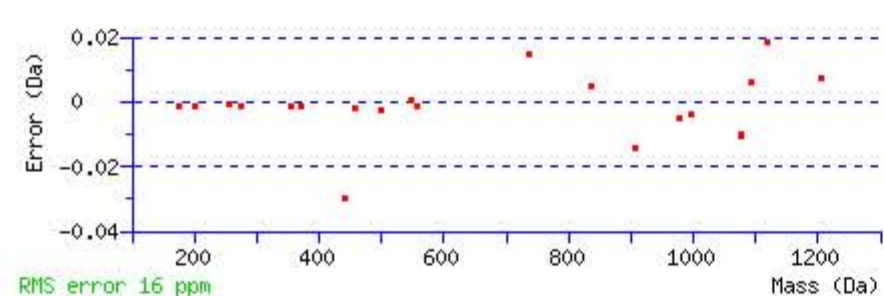
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 45 Expect: 0.0002

Matches : 21/84 fragment ions using 43 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							9
2	<b>201.123368</b>	101.065322			183.112803	92.060039	I	<b>1206.702726</b>	603.855001	1189.676177	595.341727	1188.692161	594.849718	8
3	298.176132	149.591704			280.165567	140.586422	P	<b>1093.618662</b>	<b>547.312969</b>	<b>1076.592113</b>	538.799695	<b>1075.608097</b>	538.307687	7
4	<b>737.401458</b>	369.204367	720.374909	360.691093	719.390893	360.199085	Q	<b>996.565898</b>	<b>498.786587</b>	979.539349	490.273313	<b>978.555333</b>	489.781305	6
5	<b>836.469872</b>	418.738574	819.443323	410.225300	818.459307	409.733292	V	<b>557.340572</b>	279.173924	540.314023	270.660650	539.330007	270.168642	5
6	923.501900	462.254588	906.475351	453.741313	<b>905.491335</b>	453.249305	S	<b>458.272158</b>	229.639717	441.245609	221.126443	<b>440.261593</b>	220.634435	4
7	1020.554664	510.780970	1003.528115	502.267696	1002.544099	501.775688	P	<b>371.240130</b>	186.123703	<b>354.213581</b>	177.610429			3
8	<b>1119.623078</b>	560.315177	1102.596529	551.801903	1101.612513	551.309895	V	<b>274.187366</b>	137.597321	<b>257.160817</b>	129.084047			2
9							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



### NCBI BLAST search of **SIPQVSPVR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
45.2	1292.727478	-0.003870	<a href="#">SIPQVSPVR</a>
5.5	1292.708847	0.014761	<a href="#">VTQPELIQTHK</a>
3.9	1292.731308	-0.007700	<a href="#">ASHVRDAVAVIR</a>
1.4	1292.716202	0.007406	<a href="#">SLAMLQLYNK</a>
1.4	1292.708801	0.014807	<a href="#">SLKRAEAEVYK</a>
1.3	1292.708817	0.014791	<a href="#">AEVANHLAVLEK</a>
1.3	1292.720078	0.003530	<a href="#">QNKSVLVPHGSK</a>
0.8	1292.727448	-0.003840	<a href="#">LSKQHLEK</a>

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





**Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **QLVCPVTR**

Found in **CPN2\_HUMAN**, Carboxypeptidase N subunit 2 OS=Homo sapiens GN=CPN2 PE=1 SV=3

Match to Query 19991: 1282.684032 from(428.568620,3+) rtinseconds(1787) index(30516)

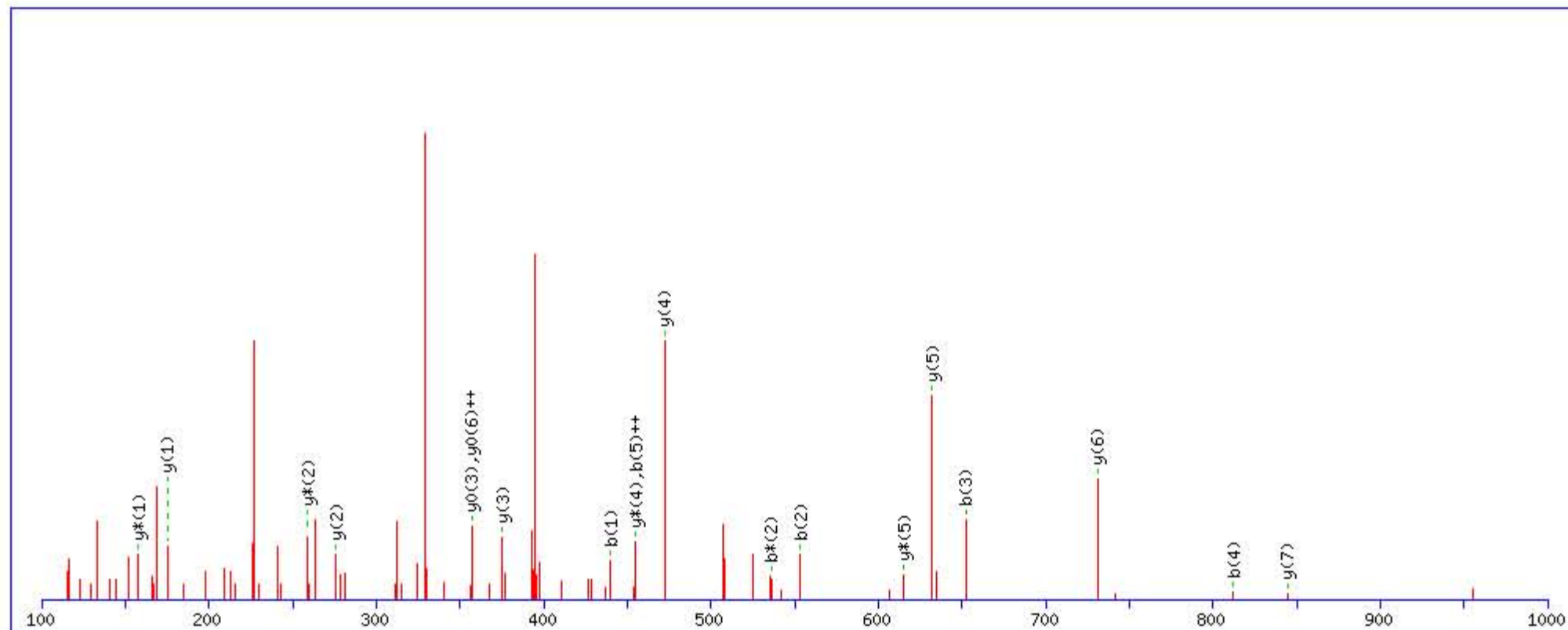
Title: Locus:1.1.1.3286.3 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1282.688995

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

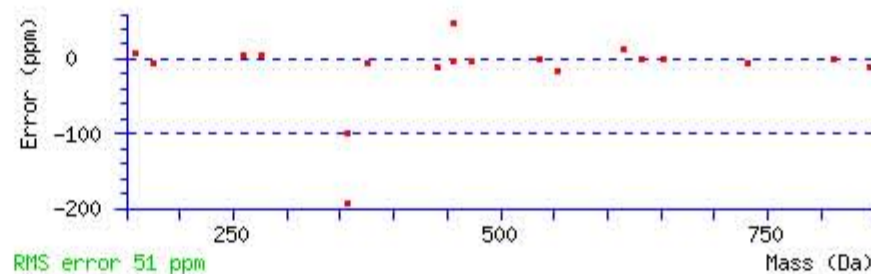
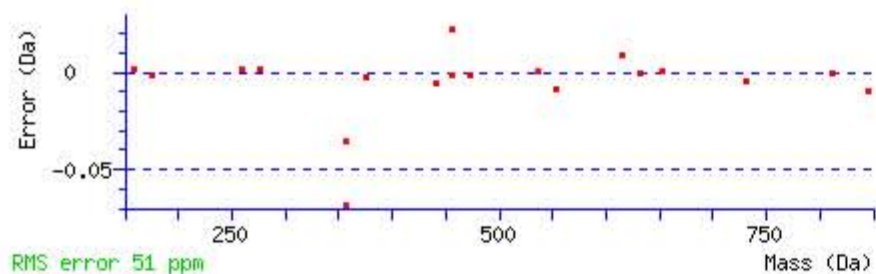
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 29 Expect: 0.0027

Matches : 19/70 fragment ions using 43 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							8
2	553.316666	277.161971	536.290117	268.648697			L	844.470936	422.739106	827.444387	414.225831	826.460371	413.733823	7
3	652.385080	326.696178	635.358531	318.182904			V	731.386872	366.197074	714.360323	357.683799	713.376307	357.191791	6
4	812.415729	406.711503	795.389180	398.198228			C	632.318458	316.662867	615.291909	308.149592	614.307893	307.657584	5
5	909.468493	455.237885	892.441944	446.724610			P	472.287809	236.647542	455.261260	228.134268	454.277244	227.642260	4
6	1008.536907	504.772092	991.510358	496.258817			V	375.235045	188.121160	358.208496	179.607886	357.224480	179.115878	3
7	1109.584586	555.295931	1092.558037	546.782657	1091.574021	546.290648	T	276.166631	138.586953	259.140082	130.073679	258.156066	129.581671	2
8							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **QLVCPVTR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
28.9	1282.688995	-0.004963	<a href="#">QLVCPVTR</a>
1.5	1282.688080	-0.004048	<a href="#">INEDPKDALLR</a>
0.8	1282.681595	0.002437	<a href="#">KNMGGLGGLVHGK</a>
0.5	1282.699341	-0.015309	<a href="#">LSAISLGQGQGR</a>







# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SSTGPGEQLR**

Found in **COMP\_HUMAN**, Cartilage oligomeric matrix protein OS=Homo sapiens GN=COMP PE=1 SV=2

Match to Query 21168: 1341.669528 from(671.842040,2+) rtinseconds(1616) index(43609)

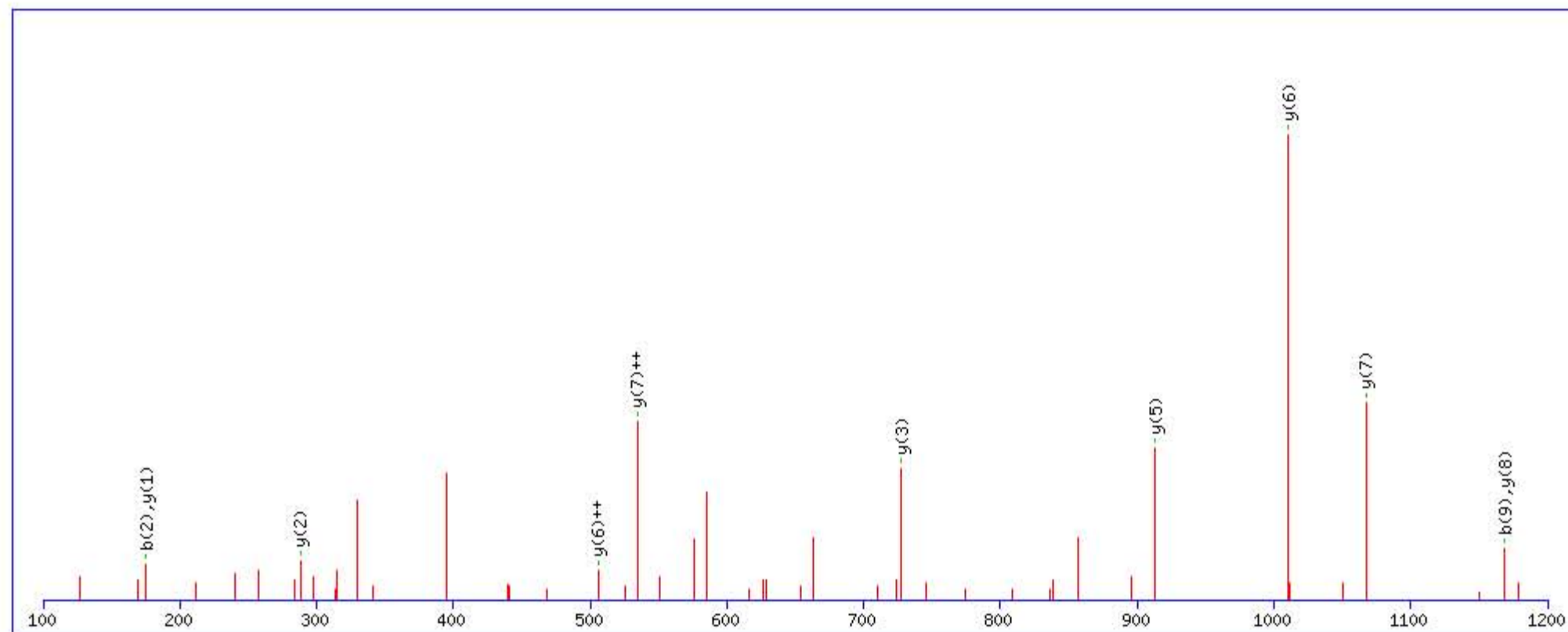
Title: Locus:1.1.1.3275.19 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1341.671082

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

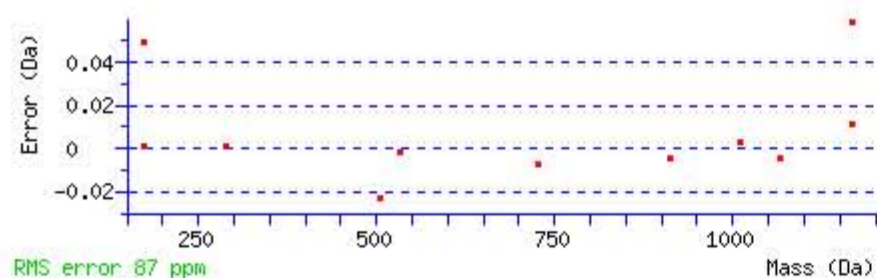
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

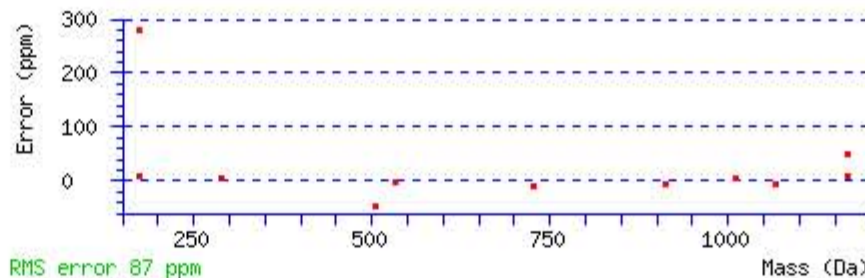
Ions Score: 67 Expect: 3.5e-006

Matches : 11/88 fragment ions using 11 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							10
2	<b>175.071332</b>	88.039304			157.060767	79.034021	S	1255.646334	628.326805	1238.619785	619.813530	1237.635769	619.321522	9
3	276.119011	138.563144			258.108446	129.557861	T	<b>1168.614306</b>	584.810791	1151.587757	576.297517	1150.603741	575.805508	8
4	333.140475	167.073875			315.129910	158.068593	G	<b>1067.566627</b>	<b>534.286951</b>	1050.540078	525.773677	1049.556062	525.281669	7
5	430.193239	215.600258			412.182674	206.594975	P	<b>1010.545163</b>	<b>505.776219</b>	993.518614	497.262945	992.534598	496.770937	6
6	487.214703	244.110989			469.204138	235.105707	G	<b>913.492399</b>	457.249837	896.465850	448.736563	895.481834	448.244555	5
7	616.257296	308.632286			598.246731	299.627004	E	856.470935	428.739105	839.444386	420.225831	838.460370	419.733823	4
8	1055.482622	528.244949	1038.456073	519.731675	1037.472057	519.239667	Q	<b>727.428342</b>	364.217809	710.401793	355.704534			3
9	<b>1168.566686</b>	584.786981	1151.540137	576.273707	1150.556121	575.781698	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
10							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



RMS error 87 ppm



RMS error 87 ppm

NCBI BLAST search of **SSTGPGEQLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
67.3	1341.671082	-0.001554	<a href="#">SSTGPGEQLR</a>
11.9	1341.674911	-0.005383	<a href="#">TSPERREPGTGR</a>
11.3	1341.663651	0.005877	<a href="#">ESARDPKPEASR</a>
7.3	1341.653793	0.015735	<a href="#">GFAEHGKQQQGR</a>
6.8	1341.663681	0.005847	<a href="#">SSHKDSPRDVSK</a>
6.8	1341.688828	-0.019300	<a href="#">DDAQLSGLPSALR</a>
6.5	1341.682297	-0.012769	<a href="#">ASEQDVRAR</a>
6.5	1341.653336	0.016192	<a href="#">STVQPPCSR</a>
2.9	1341.680267	-0.010739	<a href="#">KFHEKHHSR</a>
2.7	1341.671051	-0.001523	<a href="#">ASQEEQIAR</a>

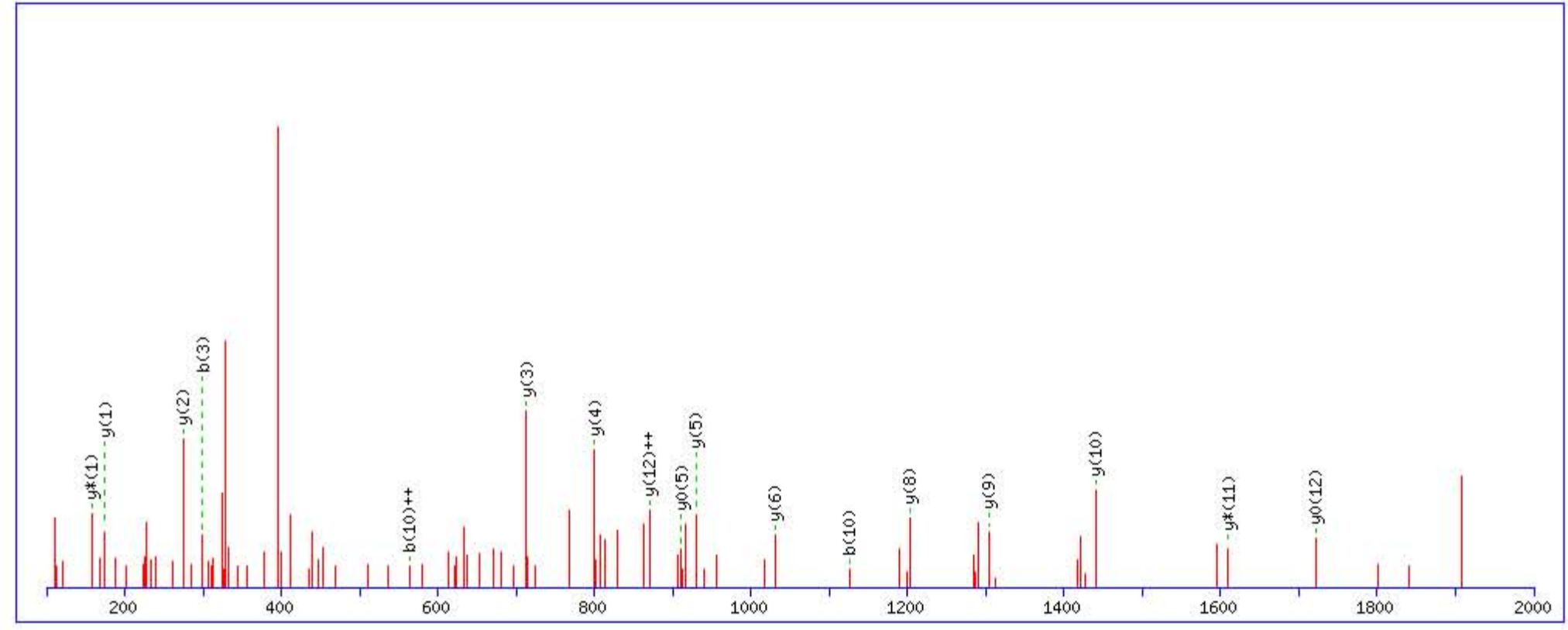
**MATRIX SCIENCE Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **NALWHTGDTESQVR**  
 Found in **COMP\_HUMAN**, Cartilage oligomeric matrix protein OS=Homo sapiens GN=COMP PE=1 SV=2

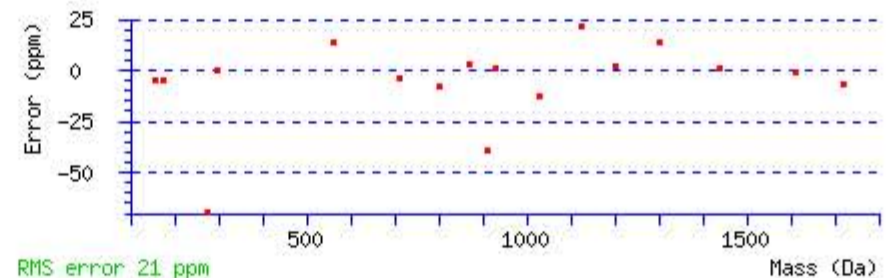
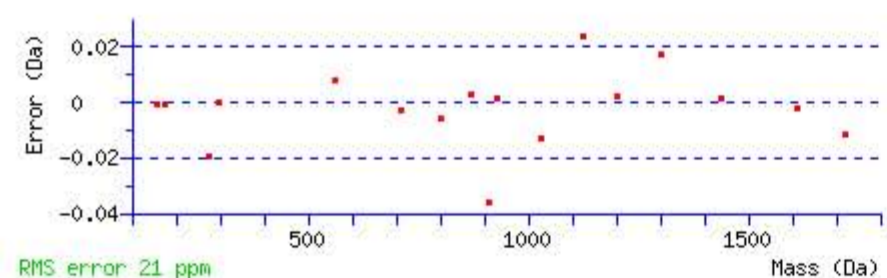
Match to Query 37864: 1923.922872 from(642.314900,3+) rtinseconds(1810) index(44827)  
 Title: Locus:1.1.1.3343.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from 100 to 2000 Da Full range  
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1923.926132  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q12 : Biotin:Thermo-21345 (Q)  
 Ions Score: 33 Expect: 0.0021  
 Matches : 17/140 fragment ions using 45 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							14
2	186.087317	93.547296	169.060768	85.034022			A	1810.890481	905.948879	1793.863932	897.435604	1792.879916	896.943596	13
3	<b>299.171381</b>	150.089328	282.144832	141.576054			L	1739.853367	<b>870.430322</b>	1722.826818	861.917047	<b>1721.842802</b>	861.425039	12
4	485.250694	243.128985	468.224145	234.615711			W	1626.769303	813.888290	<b>1609.742754</b>	805.375015	1608.758738	804.883007	11
5	622.309606	311.658441	605.283057	303.145167			H	<b>1440.689990</b>	720.848633	1423.663441	712.335359	1422.679425	711.843351	10
6	723.357285	362.182281	706.330736	353.669006	705.346720	353.176998	T	<b>1303.631078</b>	652.319177	1286.604529	643.805903	1285.620513	643.313895	9
7	780.378749	390.693013	763.352200	382.179738	762.368184	381.687730	G	<b>1202.583399</b>	601.795338	1185.556850	593.282063	1184.572834	592.790055	8
8	895.405692	448.206484	878.379143	439.693210	877.395127	439.201202	D	1145.561935	573.284606	1128.535386	564.771331	1127.551370	564.279323	7
9	996.453371	498.730324	979.426822	490.217049	978.442806	489.725041	T	<b>1030.534992</b>	515.771134	1013.508443	507.257860	1012.524427	506.765852	6
10	<b>1125.495964</b>	<b>563.251620</b>	1108.469415	554.738346	1107.485399	554.246337	E	<b>929.487313</b>	465.247295	912.460764	456.734020	<b>911.476748</b>	456.242012	5
11	1212.527992	606.767634	1195.501443	598.254360	1194.517427	597.762352	S	<b>800.444720</b>	400.725998	783.418171	392.212724	782.434155	391.720716	4
12	1651.753318	826.380297	1634.726769	817.867023	1633.742753	817.375015	Q	<b>713.412692</b>	357.209984	696.386143	348.696710			3
13	1750.821732	875.914504	1733.795183	867.401230	1732.811167	866.909222	V	<b>274.187366</b>	137.597321	257.160817	129.084047			2
14							R	<b>175.118952</b>	88.063114	<b>158.092403</b>	79.549839			1



NCBI BLAST search of **NALWHTGDTESQVR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
33.3	1923.926132	-0.003260	<a href="#">NALWHTGDTESQVR</a>
4.8	1923.933533	-0.010661	<a href="#">ICGKGFDPSSVQR</a>

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





**MATRIX** SCIENCE **Mascot Search Results**

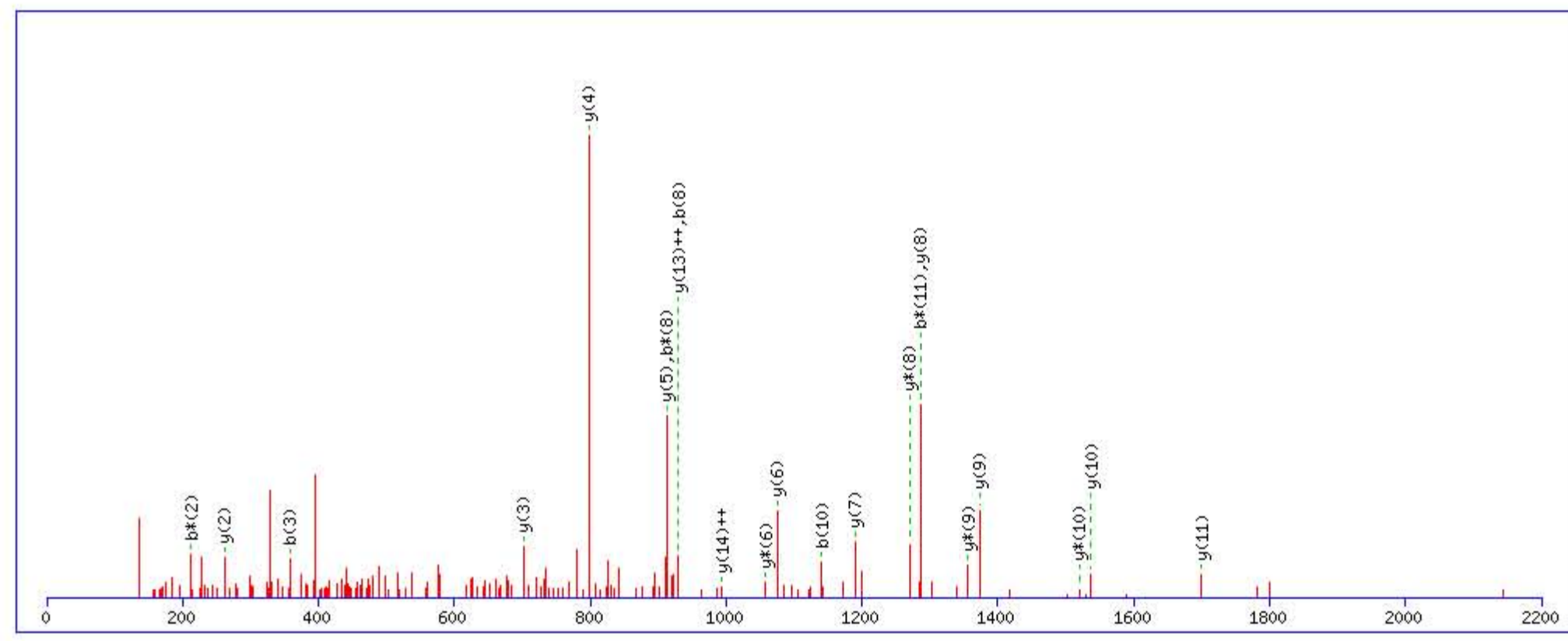
**Peptide View**

MS/MS Fragmentation of **NNEGTYYSNPYNPQSR**

Found in **CERU\_HUMAN**, Ceruloplasmin OS=Homo sapiens GN=CP PE=1 SV=1

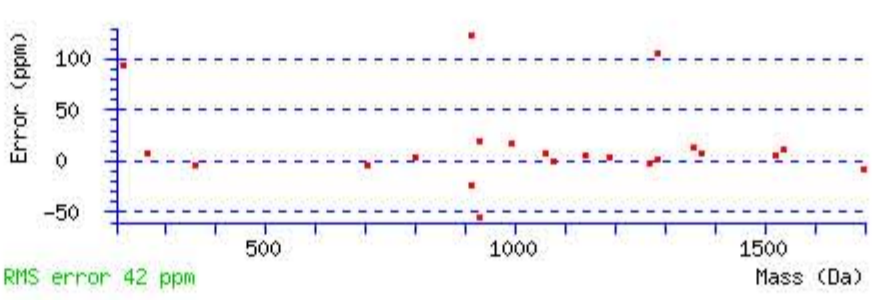
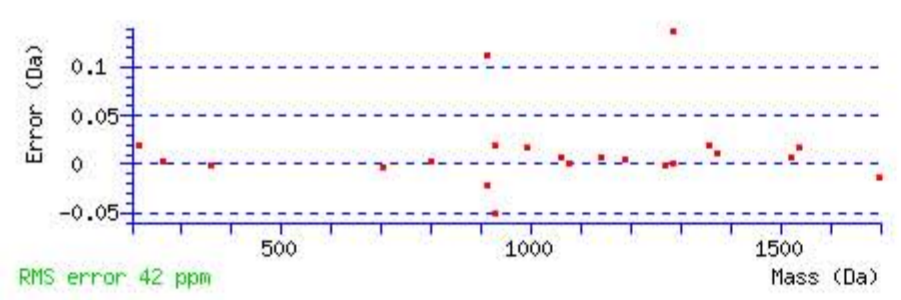
Match to Query 26525: 2213.985702 from(739.002510,3+) rtinseconds(1831) index(44931)  
 Title: Locus:1.1.1.3350.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from 0 to 2200 Da Full range  
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2213.979980  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q14 : Biotin:Thermo-21345 (Q)  
 Ions Score: 59 Expect: 1e-005  
 Matches : 22/174 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							16
2	229.093130	115.050203	212.066581	106.536929			N	2100.944366	1050.975821	2083.917817	1042.462546	2082.933801	1041.970538	15
3	<b>358.135723</b>	179.571500	341.109174	171.058225	340.125158	170.566217	E	1986.901439	<b>993.954358</b>	1969.874890	985.441083	1968.890874	984.949075	14
4	415.157187	208.082232	398.130638	199.568957	397.146622	199.076949	G	1857.858846	<b>929.433061</b>	1840.832297	920.919787	1839.848281	920.427779	13
5	516.204866	258.606071	499.178317	250.092797	498.194301	249.600789	T	1800.837382	900.922329	1783.810833	892.409055	1782.826817	891.917047	12
6	679.268195	340.137736	662.241646	331.624461	661.257630	331.132453	Y	<b>1699.789703</b>	850.398490	1682.763154	841.885215	1681.779138	841.393207	11
7	842.331524	421.669400	825.304975	413.156126	824.320959	412.664118	Y	<b>1536.726374</b>	768.866825	<b>1519.699825</b>	760.353551	1518.715809	759.861543	10
8	<b>929.363552</b>	465.185414	<b>912.337003</b>	456.672140	911.352987	456.180132	S	<b>1373.663045</b>	687.335161	<b>1356.636496</b>	678.821886	1355.652480	678.329878	9
9	1026.416316	513.711796	1009.389767	505.198522	1008.405751	504.706514	P	<b>1286.631017</b>	643.819147	<b>1269.604468</b>	635.305872	1268.620452	634.813864	8
10	<b>1140.459243</b>	570.733260	1123.432694	562.219985	1122.448678	561.727977	N	<b>1189.578253</b>	595.292765	1172.551704	586.779490	1171.567688	586.287482	7
11	1303.522572	652.264924	<b>1286.496023</b>	643.751650	1285.512007	643.259642	Y	<b>1075.535326</b>	538.271301	<b>1058.508777</b>	529.758027	1057.524761	529.266019	6
12	1417.565499	709.286388	1400.538950	700.773113	1399.554934	700.281105	N	<b>912.471997</b>	456.739637	895.445448	448.226362	894.461432	447.734354	5
13	1514.618263	757.812770	1497.591714	749.299495	1496.607698	748.807487	P	<b>798.429070</b>	399.718173	781.402521	391.204899	780.418505	390.712891	4
14	1953.843589	977.425433	1936.817040	968.912158	1935.833024	968.420150	Q	<b>701.376306</b>	351.191791	684.349757	342.678517	683.365741	342.186509	3
15	2040.875617	1020.941447	2023.849068	1012.428172	2022.865052	1011.936164	S	<b>262.150980</b>	131.579128	245.124431	123.065854	244.140415	122.573846	2
16							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **NNEGTYYSNPYNPQSR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	$M_r(\text{calc})$ :	Delta	Sequence
58.6	2213.979980	0.005722	<a href="#">NNEGTYYSNPYNPQSR</a>

# MATRIX SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VDKDNEDFQESNR**

Found in **CERU\_HUMAN**, Ceruloplasmin OS=Homo sapiens GN=CP PE=1 SV=1

Match to Query 37483: 1905.845952 from(636.289260,3+) rtinseconds(1503) index(28860)

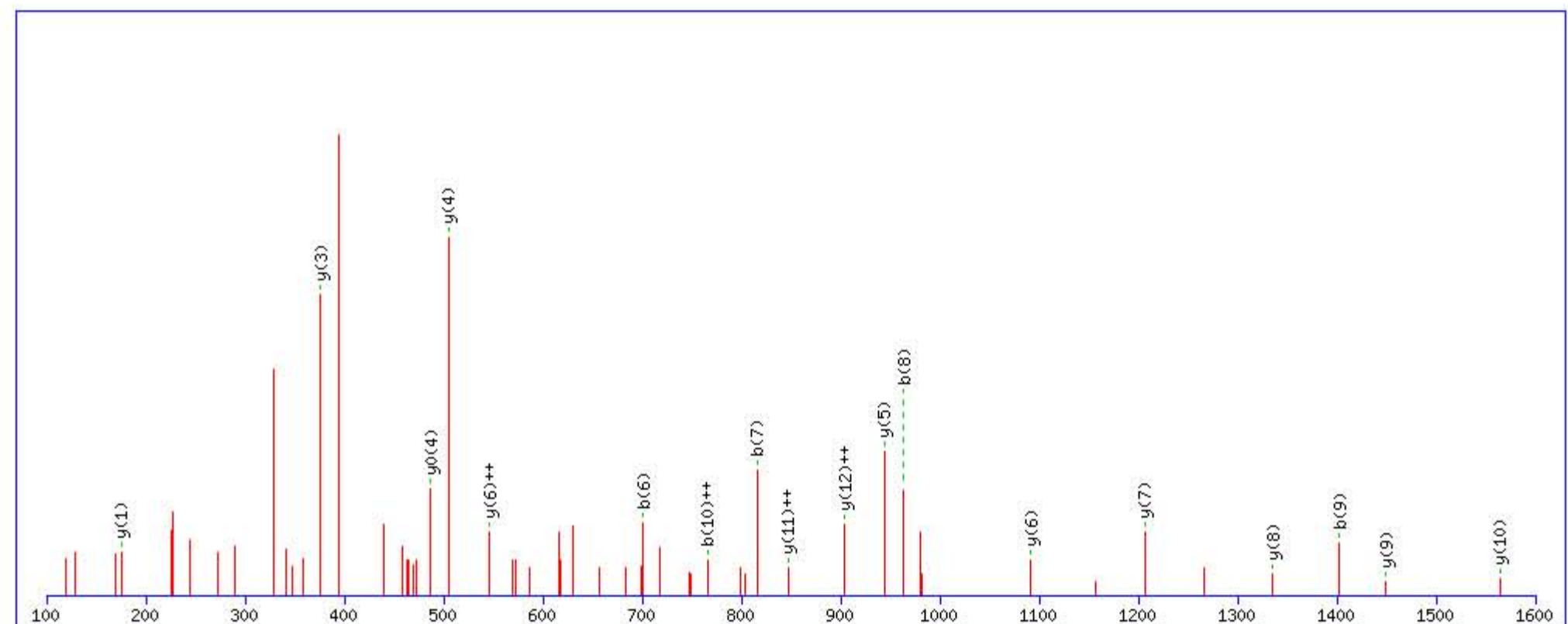
Title: Locus:1.1.1.3186.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1905.852676

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

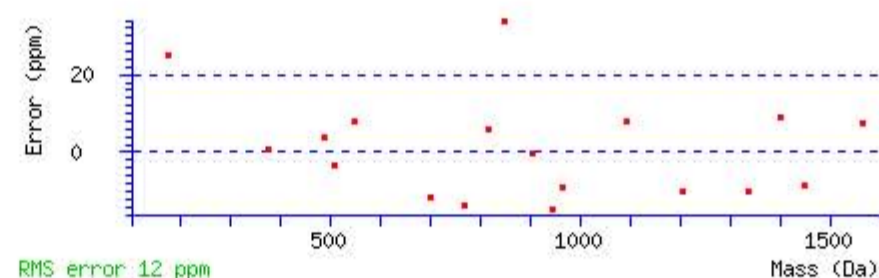
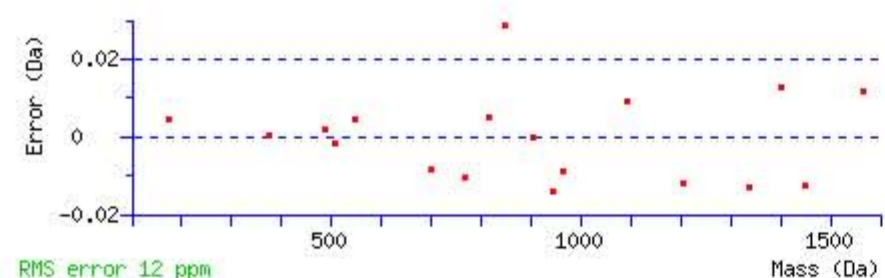
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 61 Expect: 7.6e-006

Matches : 18/134 fragment ions using 26 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							13
2	215.102633	108.054954			197.092068	99.049672	D	1807.791552	904.399414	1790.765003	895.886140	1789.780987	895.394132	12
3	343.197596	172.102436	326.171047	163.589162	325.187031	163.097154	K	1692.764609	846.885943	1675.738060	838.372668	1674.754044	837.880660	11
4	458.224539	229.615908	441.197990	221.102633	440.213974	220.610625	D	1564.669646	782.838461	1547.643097	774.325187	1546.659081	773.833179	10
5	572.267466	286.637371	555.240917	278.124097	554.256901	277.632089	N	1449.642703	725.324990	1432.616154	716.811715	1431.632138	716.319707	9
6	701.310059	351.158668	684.283510	342.645393	683.299494	342.153385	E	1335.599776	668.303526	1318.573227	659.790252	1317.589211	659.298244	8
7	816.337002	408.672139	799.310453	400.158865	798.326437	399.666857	D	1206.557183	603.782230	1189.530634	595.268955	1188.546618	594.776947	7
8	963.405416	482.206346	946.378867	473.693072	945.394851	473.201064	F	1091.530240	546.268758	1074.503691	537.755484	1073.519675	537.263476	6
9	1402.630742	701.819009	1385.604193	693.305735	1384.620177	692.813727	Q	944.461826	472.734551	927.435277	464.221277	926.451261	463.729269	5
10	1531.673335	766.340306	1514.646786	757.827031	1513.662770	757.335023	E	505.236500	253.121888	488.209951	244.608614	487.225935	244.116606	4
11	1618.705363	809.856320	1601.678814	801.343045	1600.694798	800.851037	S	376.193907	188.600591	359.167358	180.087317	358.183342	179.595309	3
12	1732.748290	866.877783	1715.721741	858.364509	1714.737725	857.872501	N	289.161879	145.084577	272.135330	136.571303			2
13							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VDKDNEDFQESNR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
60.8	1905.852676	-0.006724	<a href="#">VDKDNEDFQESNR</a>

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













MATRIX SCIENCE Mascot Search Results

Peptide View

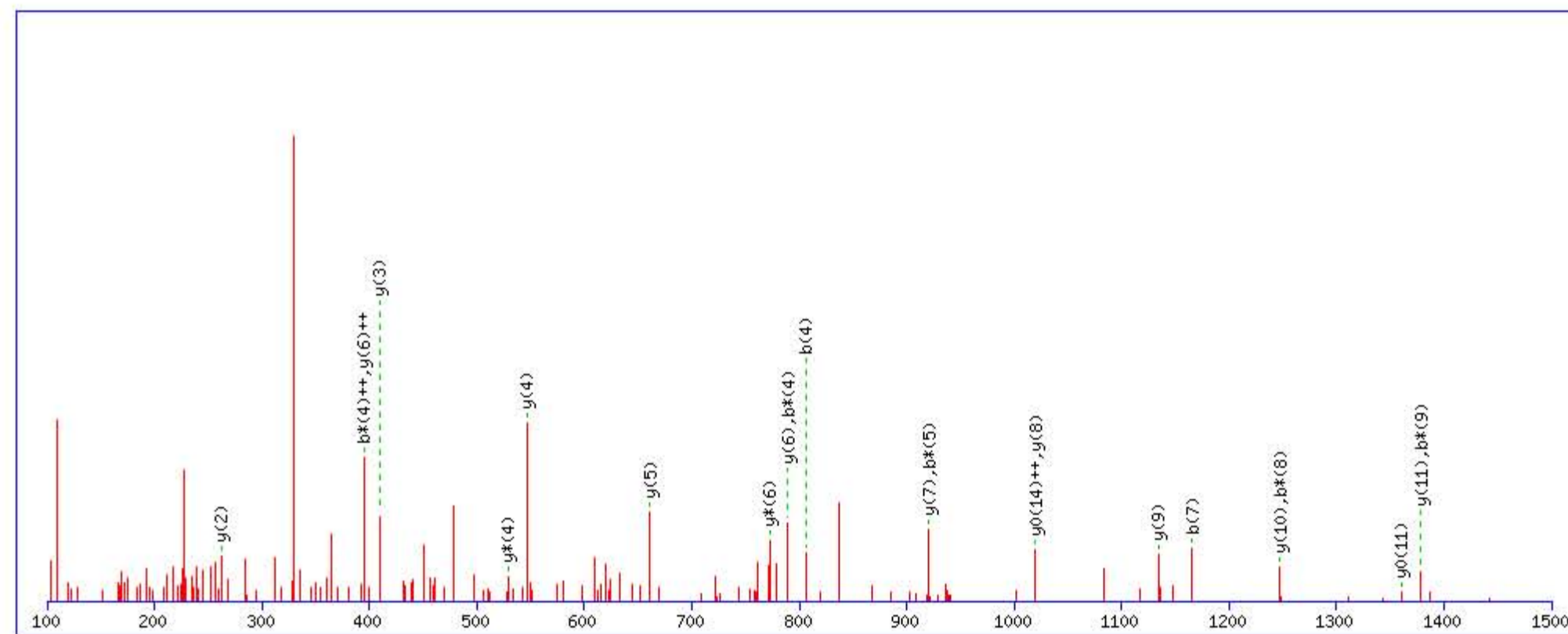
MS/MS Fragmentation of QQTHMLDVMQDHF SR
Found in CLUS\_HUMAN, Clusterin OS=Homo sapiens GN=CLU PE=1 SV=1

Match to Query 42940: 2183.002056 from(546.757790,4+) rtinseconds(2035) index(32089)
Title: Locus:1.1.1.3372.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"
Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

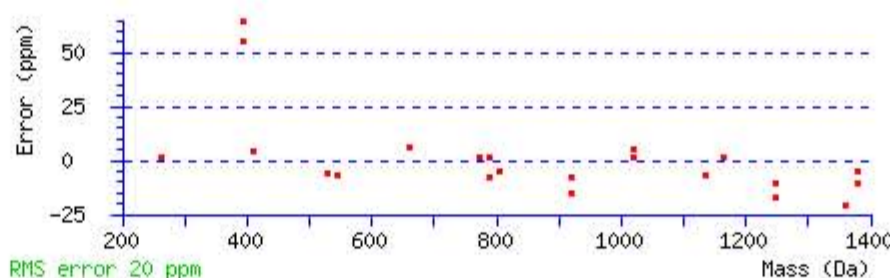
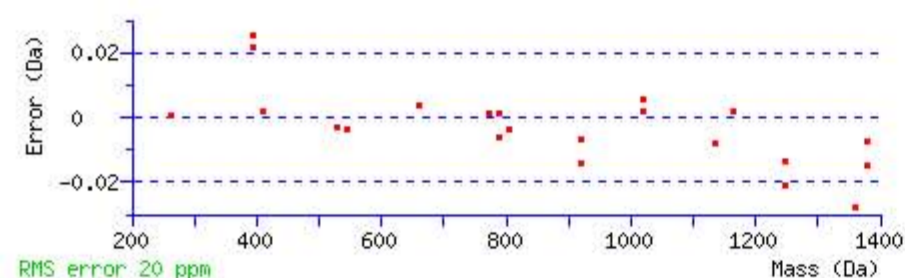
Or, Plot from 100 to 1500 Da Full range

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2183.007446
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)
Variable modifications: Biotin:Thermo-21345 (Q)
Ions Score: 65 Expect: 3.8e-006
Matches: 22/162 fragment ions using 27 most intense peaks

Table with 14 columns: #, b, b++, b+, b+--, b0, b0++, Seq., y, y++, y\*, y+--, y0, y0++, #. It lists 15 peptide fragments with their corresponding masses and sequence positions.



NCBI BLAST search of QQTHMLDVMQDHF SR
Parameters: blastp, nr protein database, expect=20000, no filter, PAM30

All matches to this query

Small table with 4 columns: Score, Mr(calc), Delta, Sequence. Shows a perfect match for the peptide QQTHMLDVMQDHF SR.

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





**{MATRIX} SCIENCE Mascot Search Results**

**Peptide View**

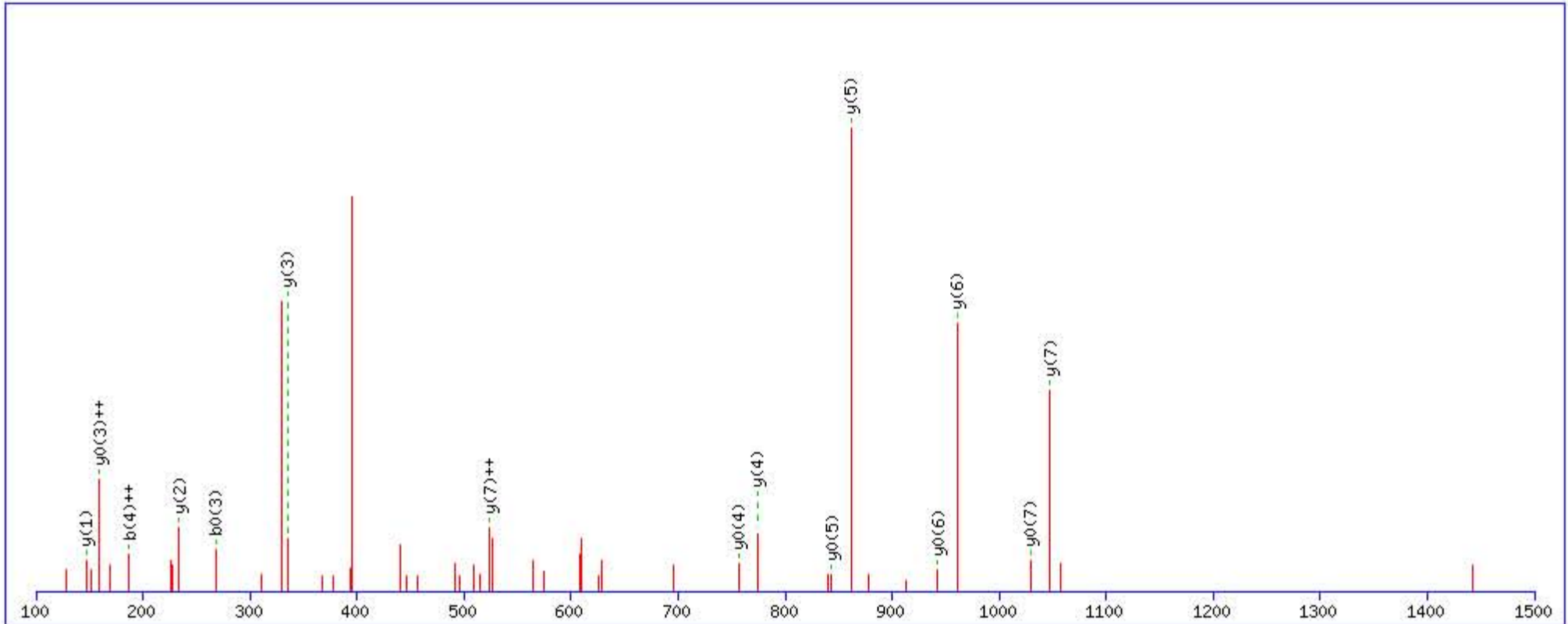
MS/MS Fragmentation of **VSVSQTSK**  
 Found in **FA9\_HUMAN**, Coagulation factor IX OS=Homo sapiens GN=F9 PE=1 SV=2

Match to Query 16126: 1145.608668 from(573.811610,2+) rtinseconds(1440) index(42497)  
 Title: Locus:1.1.1.3214.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

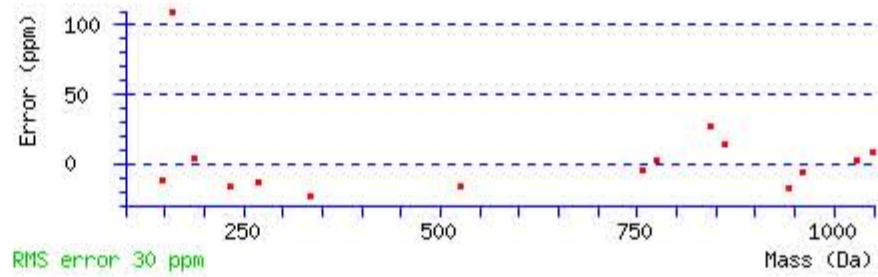
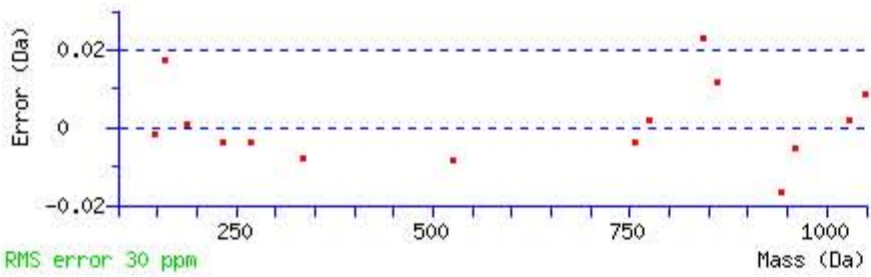
Or,  Plot from  100  to  1500  Da  Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1145.611450  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q5 : Biotin:Thermo-21345 (Q)  
 Ions Score: 43 Expect: 0.00055  
 Matches : 16/72 fragment ions using 26 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							8
2	187.107718	94.057497			169.097153	85.052214	S	1047.550307	524.278792	1030.523758	515.765517	1029.539742	515.273509	7
3	286.176132	143.591704			268.165567	134.586422	V	960.518279	480.762778	943.491730	472.249503	942.507714	471.757495	6
4	373.208160	187.107718			355.197595	178.102435	S	861.449865	431.228571	844.423316	422.715296	843.439300	422.223288	5
5	812.433486	406.720381	795.406937	398.207107	794.422921	397.715099	Q	774.417837	387.712557	757.391288	379.199282	756.407272	378.707274	4
6	913.481165	457.244221	896.454616	448.730946	895.470600	448.238938	T	335.192511	168.099893	318.165962	159.586619	317.181946	159.094611	3
7	1000.513193	500.760235	983.486644	492.246960	982.502628	491.754952	S	234.144832	117.576054	217.118283	109.062779	216.134267	108.570771	2
8							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VSVSQTSK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
43.0	1145.611450	-0.002782	<a href="#">VSVSQTSK</a>
7.8	1145.592819	0.015849	<a href="#">VSDGVTKSPEK</a>
4.3	1145.622650	-0.013982	<a href="#">VDNAMSRLLK</a>
0.5	1145.623337	-0.014669	<a href="#">WVDGGKPLFK</a>



# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **SALVLQYLR**

Found in **FA9\_HUMAN**, Coagulation factor IX OS=Homo sapiens GN=F9 PE=1 SV=2

Match to Query 22753: 1372.796088 from(687.405320,2+) rtinseconds(2435) index(48511)

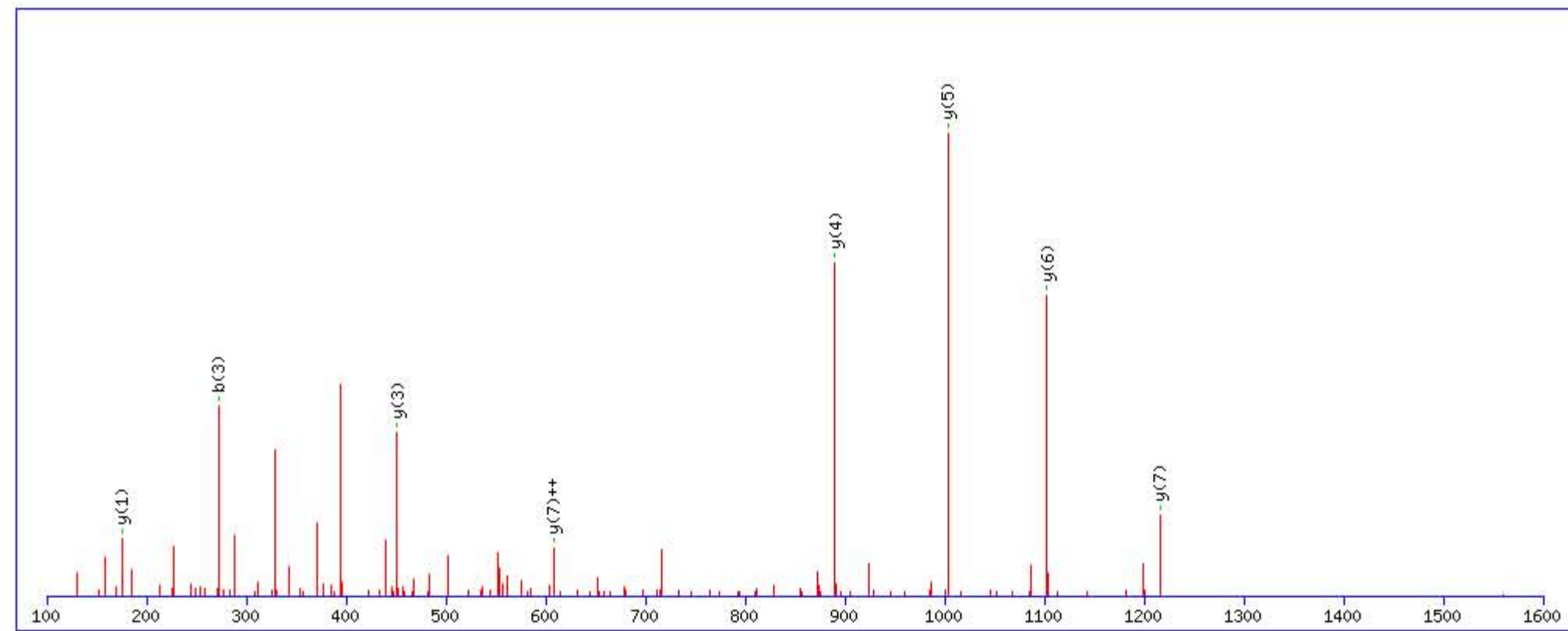
Title: Locus:1.1.1.3560.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1372.790054

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

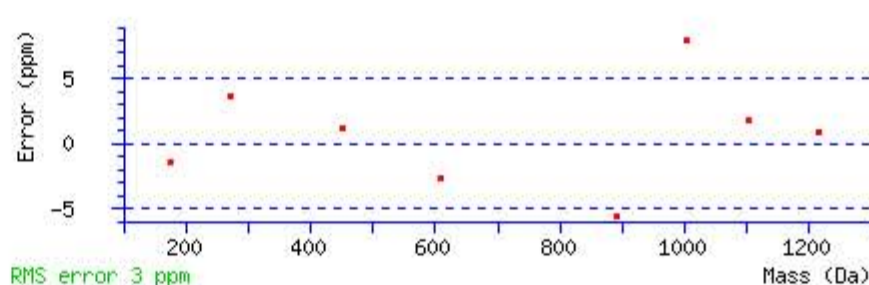
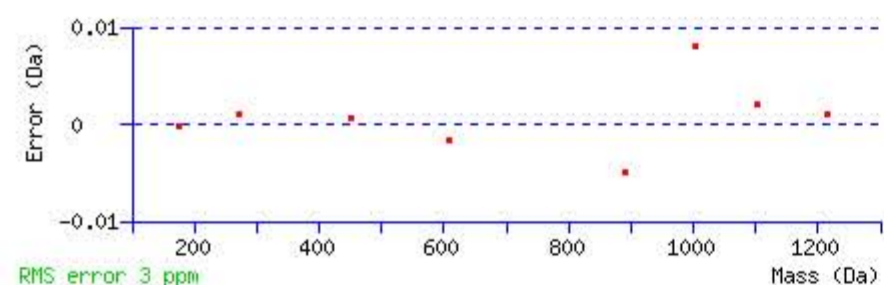
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 47 Expect: 7.8e-005

Matches : 8/70 fragment ions using 11 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S					9
2	159.076418	80.041847			141.065853	71.036564	A	1286.765327	643.886301	1269.738778	635.373027	8
3	<b>272.160482</b>	136.583879			254.149917	127.578597	L	<b>1215.728213</b>	<b>608.367744</b>	1198.701664	599.854470	7
4	371.228896	186.118086			353.218331	177.112804	V	<b>1102.644149</b>	551.825713	1085.617600	543.312438	6
5	484.312960	242.660118			466.302395	233.654836	L	<b>1003.575735</b>	502.291505	986.549186	493.778231	5
6	923.538286	462.272781	906.511737	453.759507	905.527721	453.267499	Q	<b>890.491671</b>	445.749473	873.465122	437.236199	4
7	1086.601615	543.804446	1069.575066	535.291171	1068.591050	534.799163	Y	<b>451.266345</b>	226.136810	434.239796	217.623536	3
8	1199.685679	600.346477	1182.659130	591.833203	1181.675114	591.341195	L	288.203016	144.605146	271.176467	136.091871	2
9							R	<b>175.118952</b>	88.063114	158.092403	79.549839	1



NCBI BLAST search of **SALVLQYLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
46.5	1372.790054	0.006034	<a href="#">SALVLQYLR</a>
2.6	1372.790039	0.006049	<a href="#">KELQILYR</a>
1.6	1372.782669	0.013419	<a href="#">LSNKFNSVIPVR</a>
1.6	1372.779999	0.016089	<a href="#">RTGHRIVAPPGGR</a>
1.4	1372.790039	0.006049	<a href="#">IIEKYQLR</a>
0.4	1372.778641	0.017447	<a href="#">EKISGTVNIRTR</a>
0.3	1372.779984	0.016104	<a href="#">NIPRRHTLGGPR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **ITVVAGEHNIEETEHTQK**

Found in **FA9\_HUMAN**, Coagulation factor IX OS=Homo sapiens GN=F9 PE=1 SV=2

Match to Query 47811: 2474.206896 from(619.559000,4+) rtinseconds(1649) index(43863)

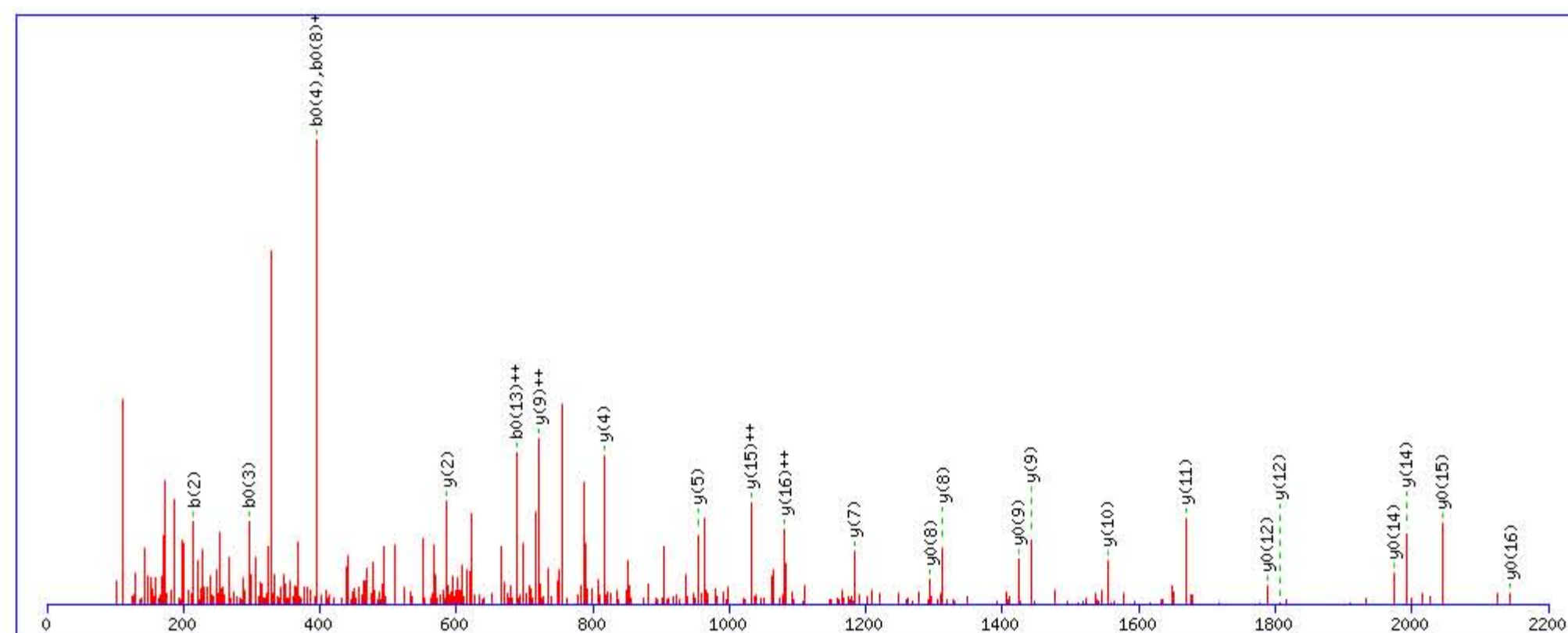
Title: Locus:1.1.1.3287.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2474.211121

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

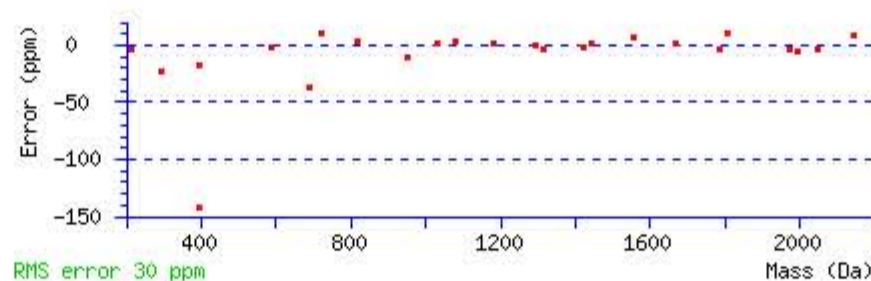
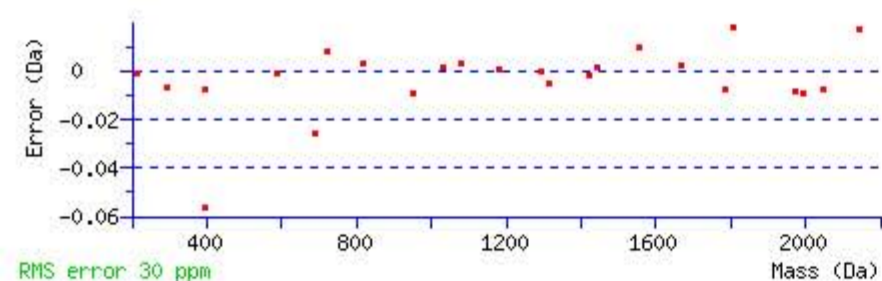
Variable modifications:

Q18 : Biotin:Thermo-21345 (Q)

Ions Score: 43 Expect: 0.0011

Matches : 24/194 fragment ions using 42 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							19
2	<b>215.139019</b>	108.073147			197.128454	99.067865	T	2362.134353	1181.570814	2345.107804	1173.057540	2344.123788	1172.565532	18
3	314.207433	157.607354			<b>296.196868</b>	148.602072	V	2261.086674	1131.046975	2244.060125	1122.533700	2243.076109	1122.041692	17
4	413.275847	207.141561			<b>395.265282</b>	198.136279	V	2162.018260	<b>1081.512768</b>	2144.991711	1072.999493	<b>2144.007695</b>	1072.507485	16
5	484.312961	242.660119			466.302396	233.654836	A	2062.949846	<b>1031.978561</b>	2045.923297	1023.465286	<b>2044.939281</b>	1022.973278	15
6	541.334425	271.170851			523.323860	262.165568	G	<b>1991.912732</b>	996.460004	1974.886183	987.946730	<b>1973.902167</b>	987.454722	14
7	670.377018	335.692147			652.366453	326.686865	E	1934.891268	967.949272	1917.864719	959.435998	1916.880703	958.943990	13
8	807.435930	404.221603			789.425365	<b>395.216321</b>	H	<b>1805.848675</b>	903.427976	1788.822126	894.914701	<b>1787.838110</b>	894.422693	12
9	921.478857	461.243067	904.452308	452.729792	903.468292	452.237784	N	<b>1668.789763</b>	834.898520	1651.763214	826.385245	1650.779198	825.893237	11
10	1034.562921	517.785099	1017.536372	509.271824	1016.552356	508.779816	I	<b>1554.746836</b>	777.877056	1537.720287	769.363782	1536.736271	768.871774	10
11	1163.605514	582.306395	1146.578965	573.793121	1145.594949	573.301113	E	<b>1441.662772</b>	<b>721.335024</b>	1424.636223	712.821750	<b>1423.652207</b>	712.329742	9
12	1292.648107	646.827692	1275.621558	638.314417	1274.637542	637.822409	E	<b>1312.620179</b>	656.813728	1295.593630	648.300453	<b>1294.609614</b>	647.808445	8
13	1393.695786	697.351531	1376.669237	688.838257	1375.685221	<b>688.346249</b>	T	<b>1183.577586</b>	592.292431	1166.551037	583.779157	1165.567021	583.287149	7
14	1522.738379	761.872828	1505.711830	753.359553	1504.727814	752.867545	E	1082.529907	541.768592	1065.503358	533.255317	1064.519342	532.763309	6
15	1659.797291	830.402284	1642.770742	821.889009	1641.786726	821.397001	H	<b>953.487314</b>	477.247295	936.460765	468.734021	935.476749	468.242013	5
16	1760.844970	880.926123	1743.818421	872.412849	1742.834405	871.920841	T	<b>816.428402</b>	408.717839	799.401853	400.204565	798.417837	399.712557	4
17	1889.887563	945.447420	1872.861014	936.934145	1871.876998	936.442137	E	715.380723	358.194000	698.354174	349.680725	697.370158	349.188717	3
18	2329.112889	1165.060082	2312.086340	1156.546808	2311.102324	1156.054800	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
19							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [ITVVAGEHNIEETEHTQK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
43.3	2474.211121	-0.004225	<a href="#">ITVVAGEHNIEETEHTQK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **SQHLDNFSNQIGK**

Found in **FA5\_HUMAN**, Coagulation factor V OS=Homo sapiens GN=F5 PE=1 SV=4

Match to Query 35667: 1797.879012 from(600.300280,3+) rtinseconds(1804) index(44780)

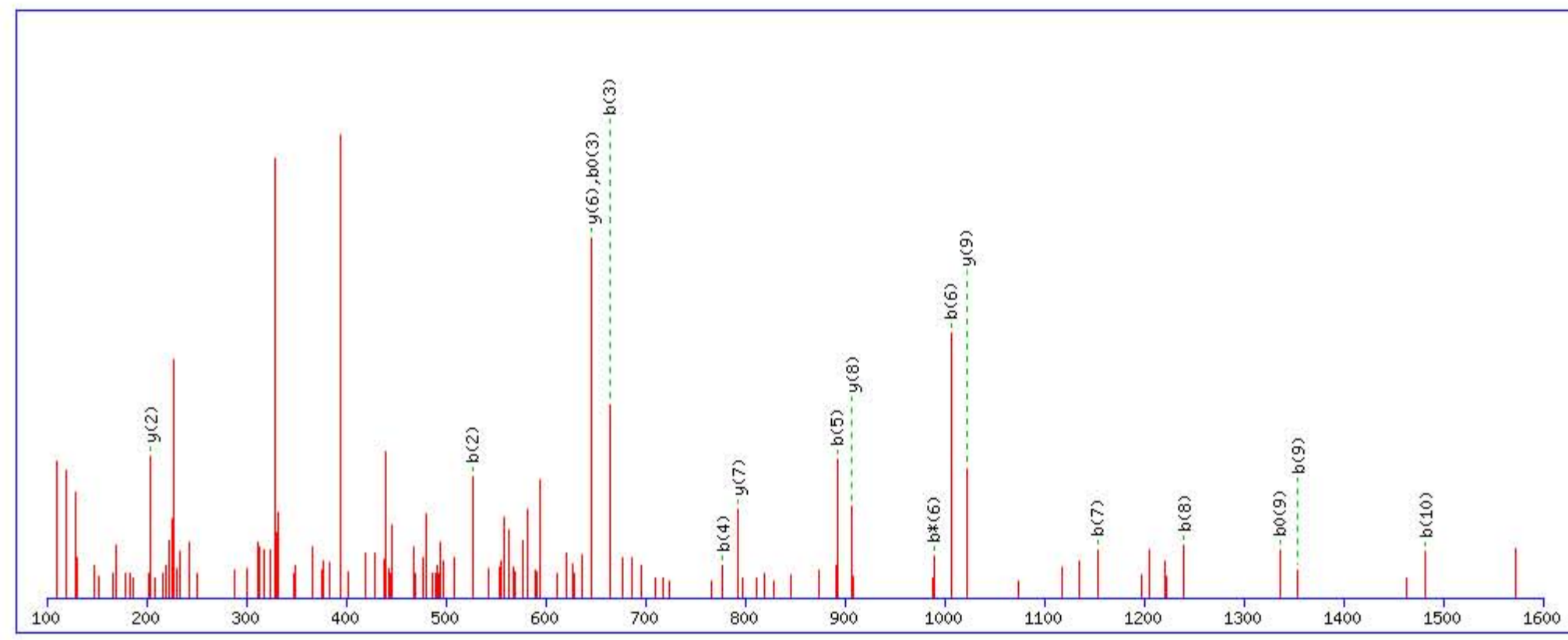
Title: Locus:1.1.1.3341.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1797.883194

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

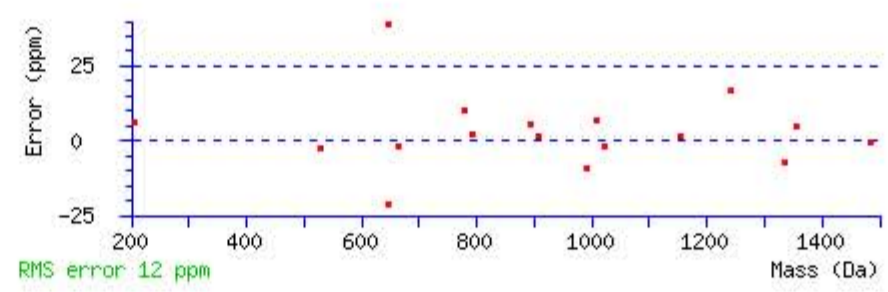
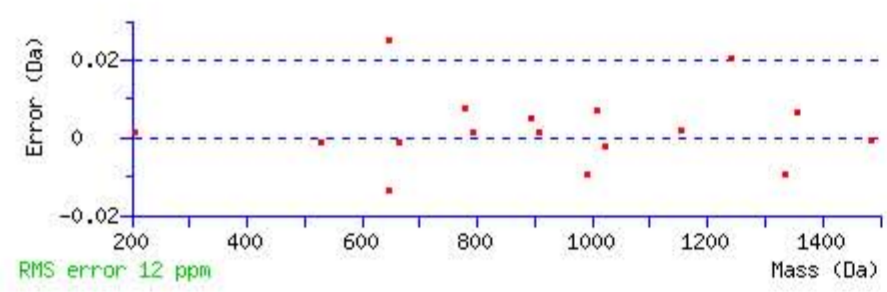
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 53 Expect: 3.5e-005

Matches : 17/132 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							13
2	<b>527.264630</b>	264.135953	510.238081	255.622679	509.254065	255.130671	Q	1711.858451	856.432863	1694.831902	847.919589	1693.847886	847.427581	12
3	<b>664.323542</b>	332.665409	647.296993	324.152134	<b>646.312977</b>	323.660126	H	1272.633125	636.820200	1255.606576	628.306926	1254.622560	627.814918	11
4	<b>777.407606</b>	389.207441	760.381057	380.694166	759.397041	380.202159	L	1135.574213	568.290744	1118.547664	559.777470	1117.563648	559.285462	10
5	<b>892.434549</b>	446.720913	875.408000	438.207638	874.423984	437.715630	D	<b>1022.490149</b>	511.748712	1005.463600	503.235438	1004.479584	502.743430	9
6	<b>1006.477476</b>	503.742376	<b>989.450927</b>	495.229101	988.466911	494.737093	N	<b>907.463206</b>	454.235241	890.436657	445.721966	889.452641	445.229958	8
7	<b>1153.545890</b>	577.276583	1136.519341	568.763308	1135.535325	568.271300	F	<b>793.420279</b>	397.213777	776.393730	388.700503	775.409714	388.208495	7
8	<b>1240.577918</b>	620.792597	1223.551369	612.279323	1222.567353	611.787314	S	<b>646.351865</b>	323.679570	629.325316	315.166296	628.341300	314.674288	6
9	<b>1354.620845</b>	677.814060	1337.594296	669.300786	<b>1336.610280</b>	668.808778	N	559.319837	280.163556	542.293288	271.650282			5
10	<b>1482.679423</b>	741.843349	1465.652874	733.330075	1464.668858	732.838067	Q	445.276910	223.142093	428.250361	214.628818			4
11	1595.763487	798.385381	1578.736938	789.872107	1577.752922	789.380099	I	317.218332	159.112804	300.191783	150.599529			3
12	1652.784951	826.896113	1635.758402	818.382839	1634.774386	817.890831	G	<b>204.134268</b>	102.570772	187.107719	94.057497			2
13							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **SQHLDNFSNQIGK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
52.6	1797.883194	-0.004182	<a href="#">SQHLDNFSNQIGK</a>
5.0	1797.872604	0.006408	<a href="#">KWDFSKYYVSNFSK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **APSHQQATTAGSPLR**

Found in **FA5\_HUMAN**, Coagulation factor V OS=Homo sapiens GN=F5 PE=1 SV=4

Match to Query 36345: 1831.933902 from(611.651910,3+) rtinseconds(1449) index(42567)

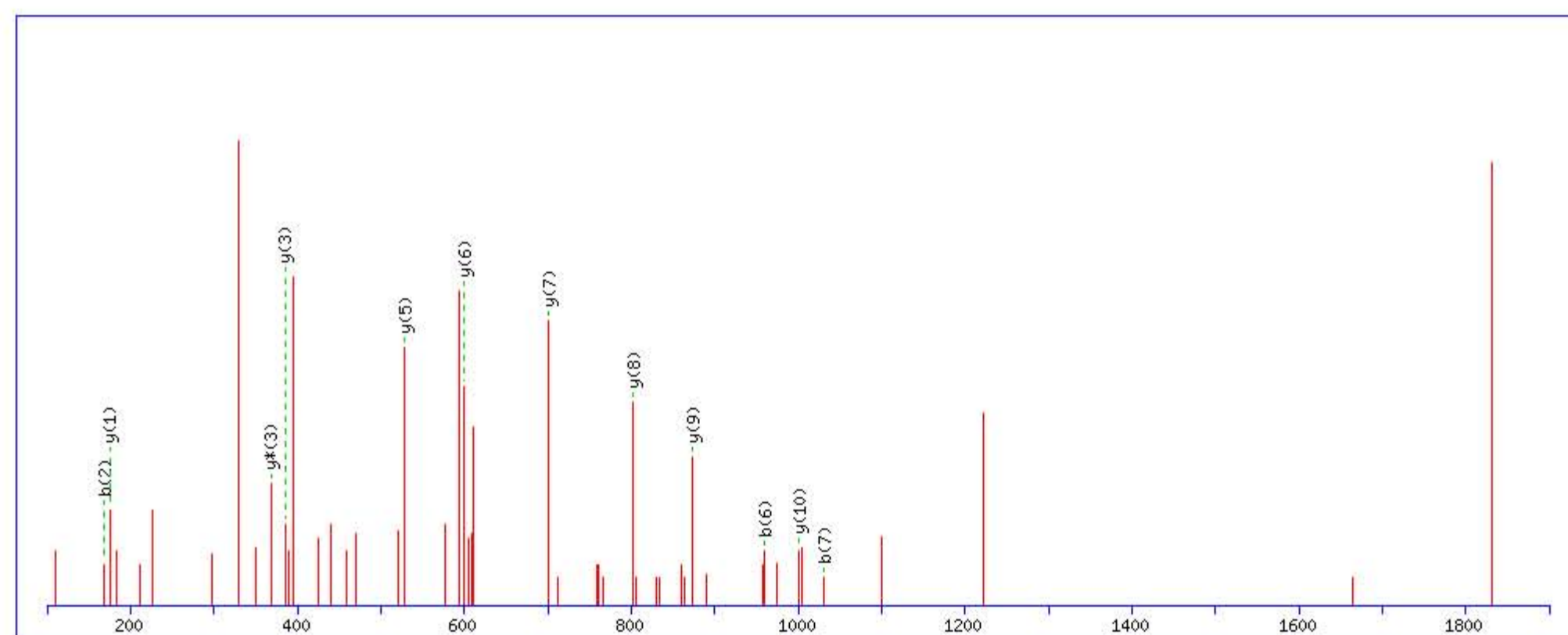
Title: Locus:1.1.1.3217.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1831.936295

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

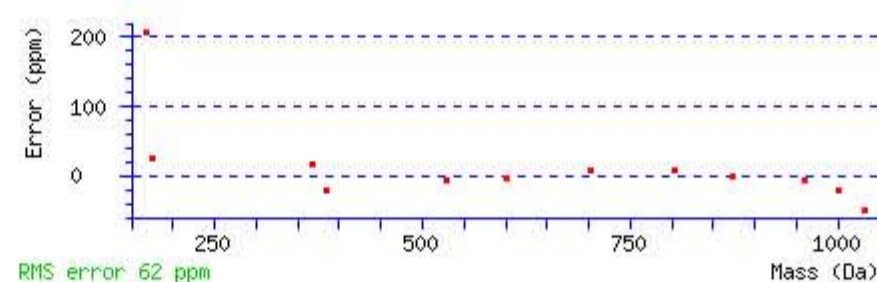
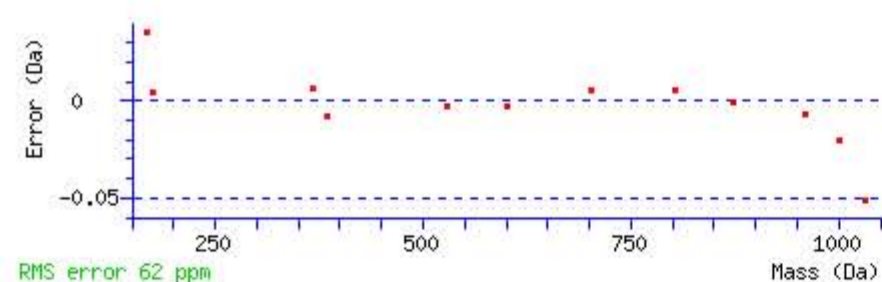
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 27 Expect: 0.0098

Matches : 12/150 fragment ions using 38 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							15
2	<b>169.097154</b>	85.052215					P	1761.906466	881.456871	1744.879917	872.943597	1743.895901	872.451588	14
3	256.129182	128.568229			238.118617	119.562947	S	1664.853702	832.930489	1647.827153	824.417215	1646.843137	823.925206	13
4	393.188094	197.097685			375.177529	188.092402	H	1577.821674	789.414475	1560.795125	780.901200	1559.811109	780.409192	12
5	832.413420	416.710348	815.386871	408.197073	814.402855	407.705065	Q	1440.762762	720.885019	1423.736213	712.371744	1422.752197	711.879736	11
6	<b>960.471998</b>	480.739637	943.445449	472.226362	942.461433	471.734354	Q	<b>1001.537436</b>	501.272356	984.510887	492.759081	983.526871	492.267073	10
7	<b>1031.509112</b>	516.258194	1014.482563	507.744919	1013.498547	507.252911	A	<b>873.478858</b>	437.243067	856.452309	428.729792	855.468293	428.237784	9
8	1132.556791	566.782034	1115.530242	558.268759	1114.546226	557.776751	T	<b>802.441744</b>	401.724510	785.415195	393.211235	784.431179	392.719227	8
9	1233.604470	617.305873	1216.577921	608.792599	1215.593905	608.300591	T	<b>701.394065</b>	351.200671	684.367516	342.687396	683.383500	342.195388	7
10	1304.641584	652.824430	1287.615035	644.311156	1286.631019	643.819147	A	<b>600.346386</b>	300.676831	583.319837	292.163556	582.335821	291.671548	6
11	1361.663048	681.335162	1344.636499	672.821888	1343.652483	672.329879	G	<b>529.309272</b>	265.158274	512.282723	256.644999	511.298707	256.152991	5
12	1448.695076	724.851176	1431.668527	716.337902	1430.684511	715.845893	S	472.287808	236.647542	455.261259	228.134267	454.277243	227.642259	4
13	1545.747840	773.377558	1528.721291	764.864284	1527.737275	764.372276	P	<b>385.255780</b>	193.131528	<b>368.229231</b>	184.618253			3
14	1658.831904	829.919590	1641.805355	821.406316	1640.821339	820.914307	L	288.203016	144.605146	271.176467	136.091871			2
15							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **APSHQQATTAGSPLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	$M_r(\text{calc})$	Delta	Sequence
27.0	1831.936295	-0.002393	<a href="#">APSHQQATTAGSPLR</a>
19.2	1831.936295	-0.002393	<a href="#">APSHQQATTAGSPLR</a>
5.5	1831.916336	0.017566	<a href="#">VQTTADSVSDEAELLVR</a>
3.7	1831.954041	-0.020139	<a href="#">HSDLPPSKKGEQPLSR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **MPMGLSTGIISDSQIK**

Found in **FA5\_HUMAN**, Coagulation factor V OS=Homo sapiens GN=F5 PE=1 SV=4

Match to Query 39074: 1988.018712 from(663.680180,3+) rtinseconds(2475) index(48662)

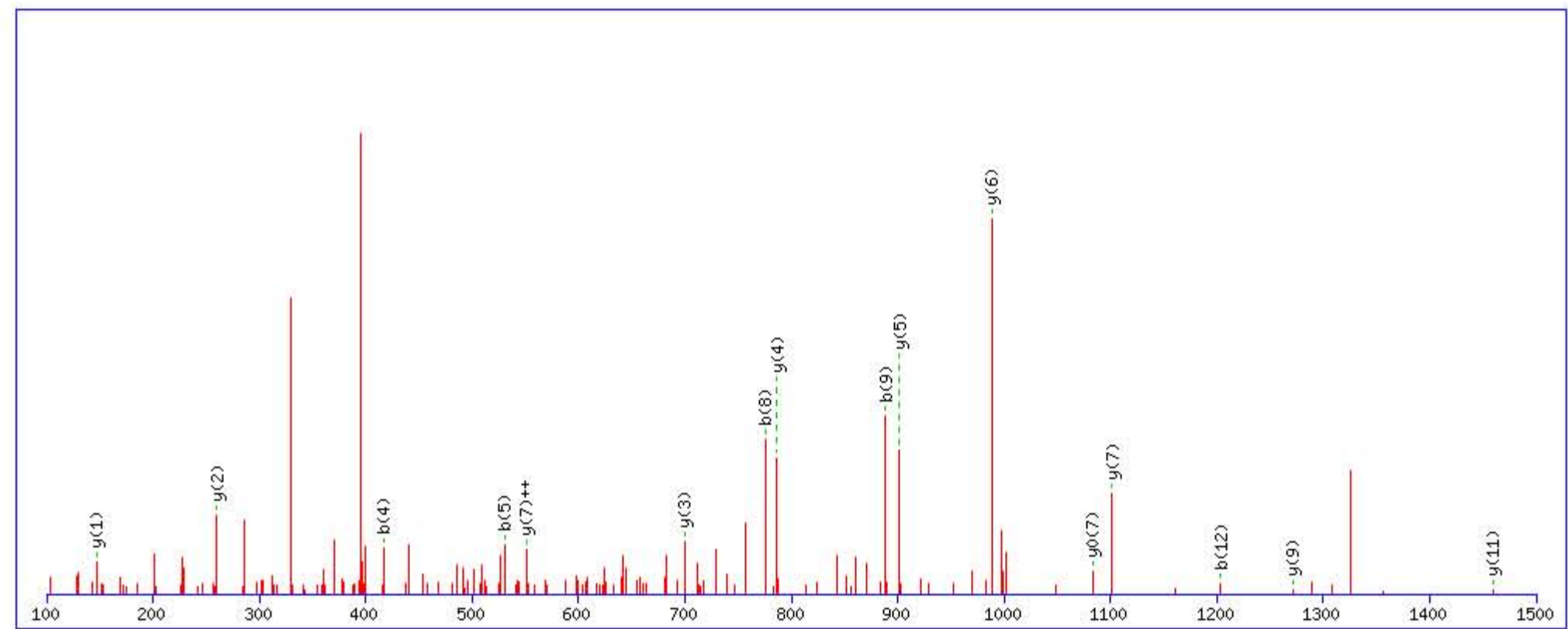
Title: Locus:1.1.1.3574.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1988.014465

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

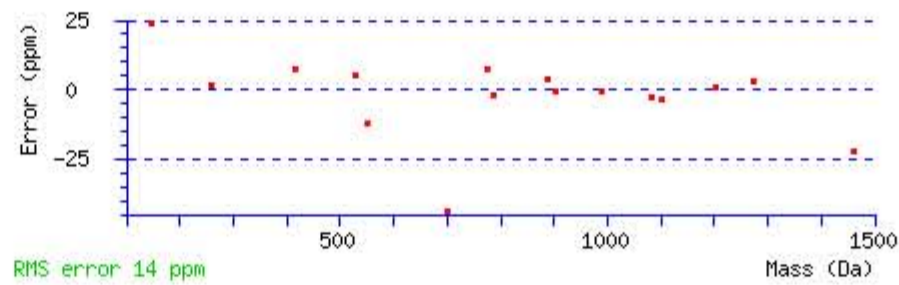
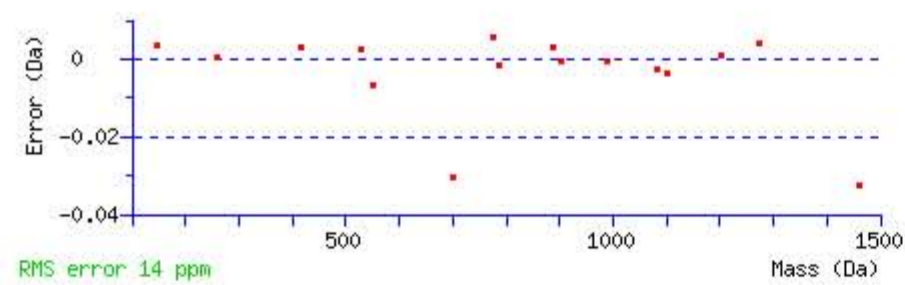
Variable modifications:

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 53 Expect: 1.8e-005

Matches : 16/138 fragment ions using 27 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							16
2	229.100525	115.053900					P	1857.981269	929.494273	1840.954720	920.980998	1839.970704	920.488990	15
3	360.141010	180.574143					M	1760.928505	880.967891	1743.901956	872.454616	1742.917940	871.962608	14
4	<b>417.162474</b>	209.084875					G	1629.888020	815.447648	1612.861471	806.934374	1611.877455	806.442366	13
5	<b>530.246538</b>	265.626907					L	1572.866556	786.936916	1555.840007	778.423642	1554.855991	777.931634	12
6	617.278566	309.142921			599.268001	300.137638	S	<b>1459.782492</b>	730.394884	1442.755943	721.881610	1441.771927	721.389602	11
7	718.326245	359.666761			700.315680	350.661478	T	1372.750464	686.878870	1355.723915	678.365596	1354.739899	677.873588	10
8	<b>775.347709</b>	388.177493			757.337144	379.172210	G	<b>1271.702785</b>	636.355031	1254.676236	627.841756	1253.692220	627.349748	9
9	<b>888.431773</b>	444.719525			870.421208	435.714242	I	1214.681321	607.844299	1197.654772	599.331024	1196.670756	598.839016	8
10	1001.515837	501.261557			983.505272	492.256274	I	<b>1101.597257</b>	<b>551.302267</b>	1084.570708	542.788992	<b>1083.586692</b>	542.296984	7
11	1088.547865	544.777571			1070.537300	535.772288	S	<b>988.513193</b>	494.760235	971.486644	486.246960	970.502628	485.754952	6
12	<b>1203.574808</b>	602.291042			1185.564243	593.285760	D	<b>901.481165</b>	451.244221	884.454616	442.730946	883.470600	442.238938	5
13	1290.606836	645.807056			1272.596271	636.801774	S	<b>786.454222</b>	393.730749	769.427673	385.217475	768.443657	384.725467	4
14	1729.832162	865.419719	1712.805613	856.906445	1711.821597	856.414437	Q	<b>699.422194</b>	350.214735	682.395645	341.701461			3
15	1842.916226	921.961751	1825.889677	913.448477	1824.905661	912.956469	I	<b>260.196868</b>	130.602072	243.170319	122.088797			2
16							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [MPMGLSTGIISDSQIK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
53.3	1988.014465	0.004247	<a href="#">MPMGLSTGIISDSQIK</a>
2.8	1988.000519	0.018193	<a href="#">QQMLENQMEVRKK</a>
2.1	1988.011063	0.007649	<a href="#">EPLAAVYQEMLAQAK</a>
0.2	1988.000519	0.018193	<a href="#">QQMLENQMEVRKK</a>

**MATRIX SCIENCE Mascot Search Results**

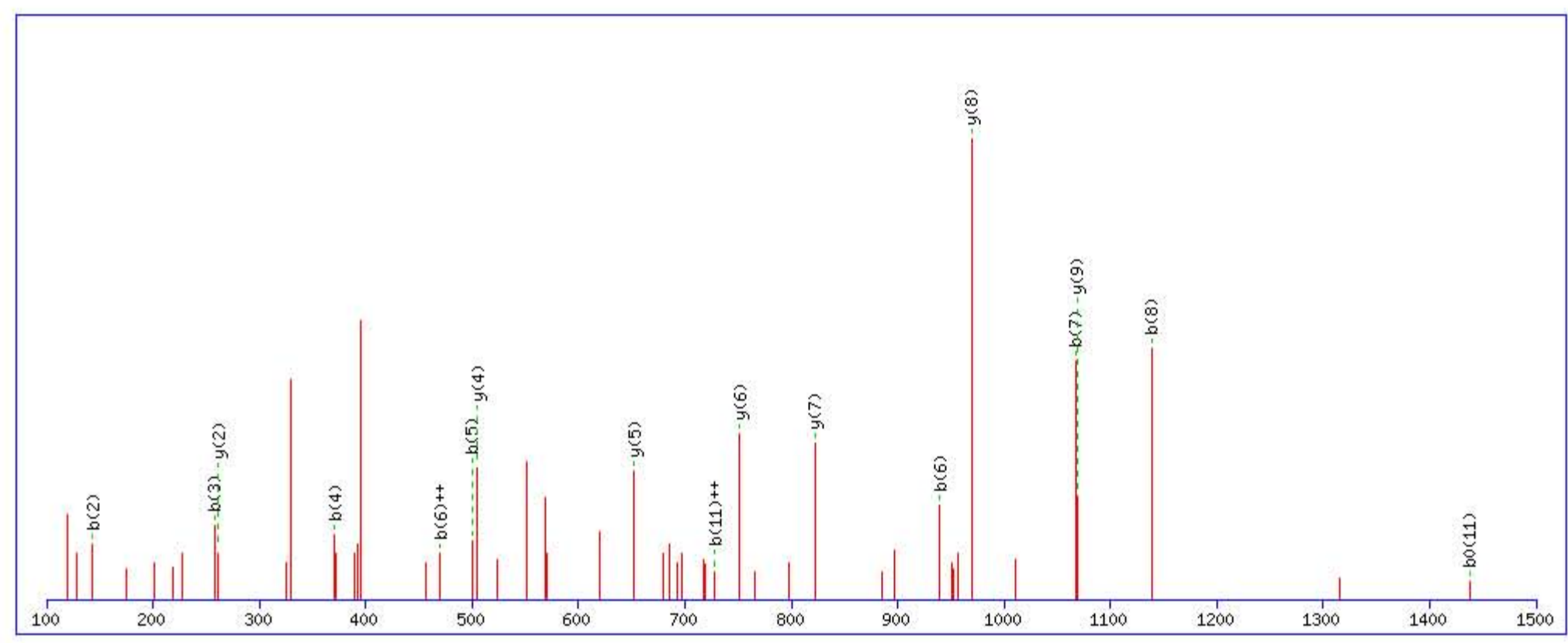
**Peptide View**

MS/MS Fragmentation of **AADIEQQAVFAVFDENK**

Found in **FA5\_HUMAN**, Coagulation factor V OS=Homo sapiens GN=F5 PE=1 SV=4

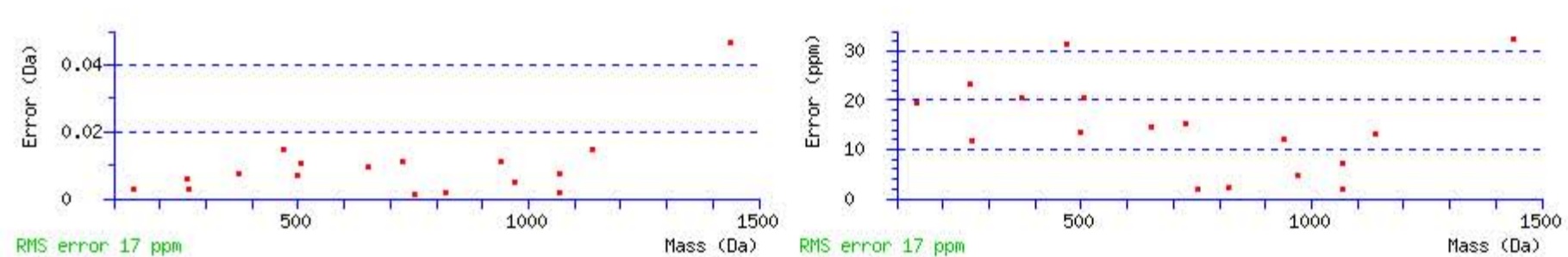
Match to Query 43279: 2205.087162 from(736.036330,3+) rtinseconds(2760) index(50452)  
 Title: Locus:1.1.1.3672.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2205.077591  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q6 : Biotin:Thermo-21345 (Q)  
 Ions Score: 54 Expect: 2e-005  
 Matches : 17/174 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							17
2	<b>143.081504</b>	72.044390					A	2135.047769	1068.027522	2118.021220	1059.514248	2117.037204	1059.022240	16
3	<b>258.108447</b>	129.557862			240.097882	120.552579	D	2064.010655	1032.508965	2046.984106	1023.995691	2046.000090	1023.503683	15
4	<b>371.192511</b>	186.099894			353.181946	177.094611	I	1948.983712	974.995494	1931.957163	966.482220	1930.973147	965.990212	14
5	<b>500.235104</b>	250.621190			482.224539	241.615908	E	1835.899648	918.453462	1818.873099	909.940188	1817.889083	909.448180	13
6	<b>939.460430</b>	<b>470.233853</b>	922.433881	461.720579	921.449865	461.228571	Q	1706.857055	853.932166	1689.830506	845.418891	1688.846490	844.926883	12
7	<b>1067.519008</b>	534.263142	1050.492459	525.749868	1049.508443	525.257860	Q	1267.631729	634.319503	1250.605180	625.806228	1249.621164	625.314220	11
8	<b>1138.556122</b>	569.781699	1121.529573	561.268425	1120.545557	560.776416	A	1139.573151	570.290214	1122.546602	561.776939	1121.562586	561.284931	10
9	1237.624536	619.315906	1220.597987	610.802632	1219.613971	610.310624	V	<b>1068.536037</b>	534.771657	1051.509488	526.258382	1050.525472	525.766374	9
10	1384.692950	692.850113	1367.666401	684.336839	1366.682385	683.844831	F	<b>969.467623</b>	485.237450	952.441074	476.724175	951.457058	476.232167	8
11	1455.730064	<b>728.368670</b>	1438.703515	719.855396	<b>1437.719499</b>	719.363388	A	<b>822.399209</b>	411.703243	805.372660	403.189968	804.388644	402.697960	7
12	1554.798478	777.902877	1537.771929	769.389603	1536.787913	768.897595	V	<b>751.362095</b>	376.184686	734.335546	367.671411	733.351530	367.179403	6
13	1701.866892	851.437084	1684.840343	842.923810	1683.856327	842.431802	F	<b>652.293681</b>	326.650479	635.267132	318.137204	634.283116	317.645196	5
14	1816.893835	908.950556	1799.867286	900.437281	1798.883270	899.945273	D	<b>505.225267</b>	253.116271	488.198718	244.602997	487.214702	244.110989	4
15	1945.936428	973.471852	1928.909879	964.958578	1927.925863	964.466570	E	390.198324	195.602800	373.171775	187.089525	372.187759	186.597517	3
16	2059.979355	1030.493315	2042.952806	1021.980041	2041.968790	1021.488033	N	<b>261.155731</b>	131.081503	244.129182	122.568229			2
17							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **AADIEQQAVFAVFDENK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
54.2	2205.077591	0.009571	<a href="#">AADIEQQAVFAVFDENK</a>
42.1	2205.077591	0.009571	<a href="#">AADIEQQAVFAVFDENK</a>
3.8	2205.063492	0.023670	<a href="#">GERGEPGIRGEDGRPGQEGPR</a>
0.2	2205.080063	0.007099	<a href="#">EKENDELDIQLKVFENK</a>

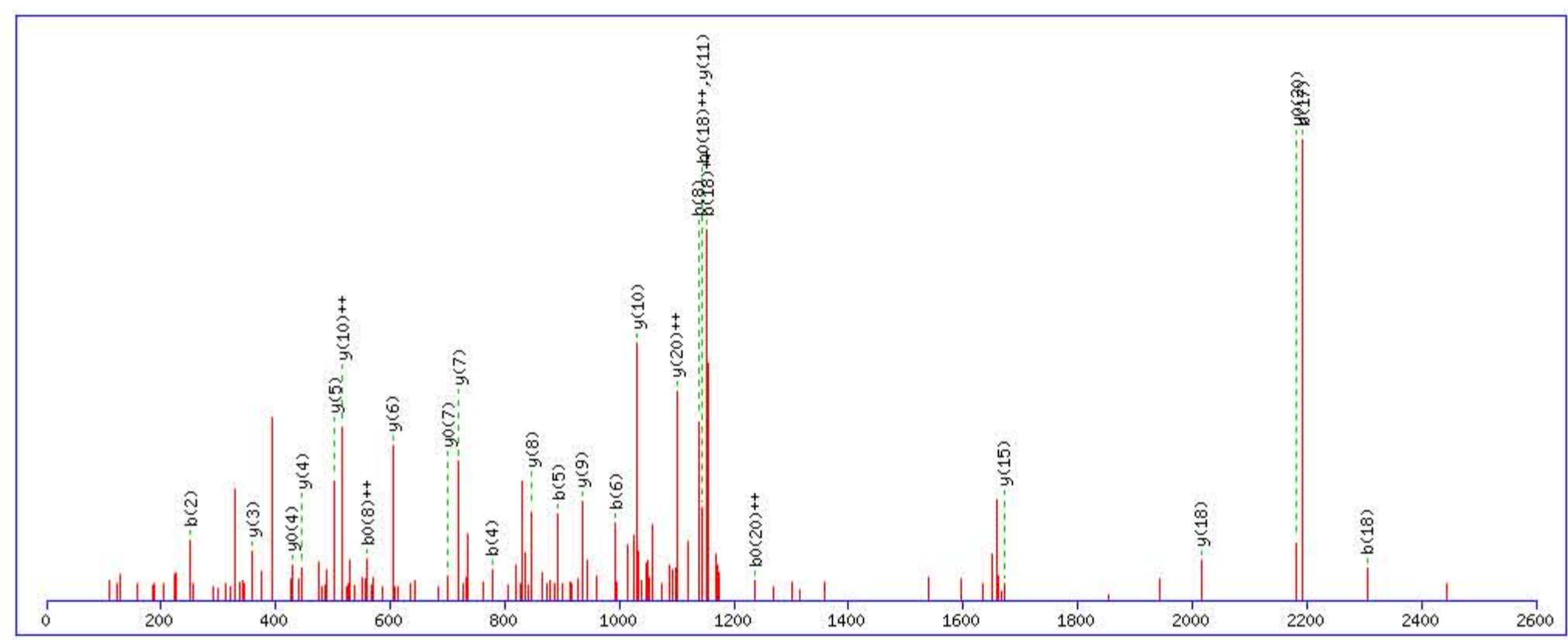
**Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **HLSQDTGSPSGMRPWEDLPSQDTGSPSR**  
 Found in **FAS\_HUMAN**, Coagulation factor V OS=Homo sapiens GN=F5 PE=1 SV=4

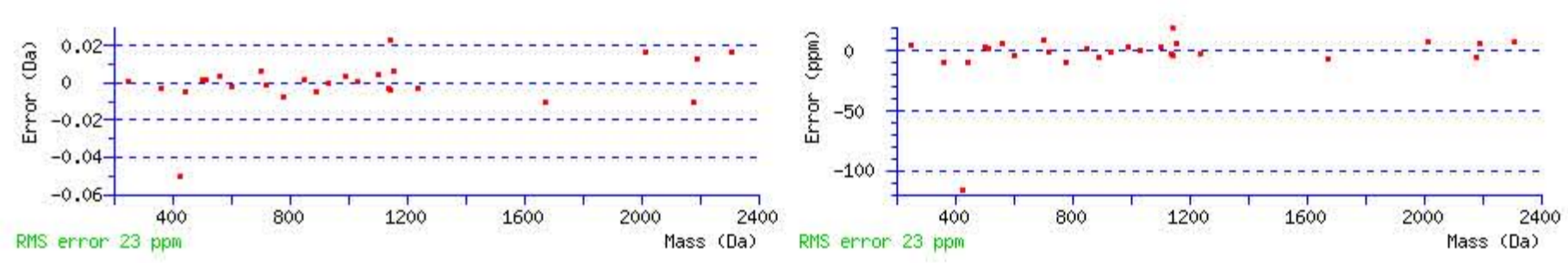
Match to Query 58324: 3335.547696 from(834.894200,4+) rtinseconds(1984) index(45935)  
 Title: Locus:1.1.1.3403.21 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3335.529938  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q4 : Biotin:Thermo-21345 (Q)  
 Ions Score: 47 Expect: 0.00032  
 Matches : 27/312 fragment ions using 63 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							28
2	<b>251.150252</b>	126.078764					L	3199.478289	1600.242782	3182.451740	1591.729508	3181.467724	1591.237500	27
3	338.182280	169.594778			320.171715	160.589495	S	3086.394225	1543.700750	3069.367676	1535.187476	3068.383660	1534.695468	26
4	<b>777.407606</b>	389.207441	760.381057	380.694166	759.397041	380.202159	Q	2999.362197	1500.184736	2982.335648	1491.671462	2981.351632	1491.179454	25
5	<b>892.434549</b>	446.720913	875.408000	438.207638	874.423984	437.715630	D	2560.136871	1280.572073	2543.110322	1272.058799	2542.126306	1271.566791	24
6	<b>993.482228</b>	497.244752	976.455679	488.731477	975.471663	488.239469	T	2445.109928	1223.058602	2428.083379	1214.545327	2427.099363	1214.053319	23
7	1050.503692	525.755484	1033.477143	517.242210	1032.493127	516.750202	G	2344.062249	1172.534762	2327.035700	1164.021488	2326.051684	1163.529480	22
8	<b>1137.535720</b>	569.271498	1120.509171	560.758224	1119.525155	<b>560.266216</b>	S	2287.040785	1144.024030	2270.014236	1135.510756	2269.030220	1135.018748	21
9	1234.588484	617.797880	1217.561935	609.284606	1216.577919	608.792598	P	2200.008757	<b>1100.508016</b>	2182.982208	1091.994742	<b>2181.998192</b>	1091.502734	20
10	1321.620512	661.313894	1304.593963	652.800620	1303.609947	652.308612	S	2102.955993	1051.981634	2085.929444	1043.468360	2084.945428	1042.976352	19
11	1378.641976	689.824626	1361.615427	681.311352	1360.631411	680.819344	G	<b>2015.923965</b>	1008.465620	1998.897416	999.952346	1997.913400	999.460338	18
12	1509.682461	755.344869	1492.655912	746.831594	1491.671896	746.339586	M	1958.902501	979.954888	1941.875952	971.441614	1940.891936	970.949606	17
13	1665.783572	833.395424	1648.757023	824.882150	1647.773007	824.390142	R	1827.862016	914.434646	1810.835467	905.921371	1809.851451	905.429363	16
14	1762.836336	881.921806	1745.809787	873.408532	1744.825771	872.916524	P	<b>1671.760905</b>	836.384090	1654.734356	827.870816	1653.750340	827.378808	15
15	1948.915649	974.961463	1931.889100	966.448188	1930.905084	965.956180	W	1574.708141	787.857708	1557.681592	779.344434	1556.697576	778.852426	14
16	2077.958242	1039.482759	2060.931693	1030.969484	2059.947677	1030.477476	E	1388.628828	694.818052	1371.602279	686.304778	1370.618263	685.812769	13
17	<b>2192.985185</b>	1096.996230	2175.958636	1088.482956	2174.974620	1087.990948	D	1259.586235	630.296756	1242.559686	621.783481	1241.575670	621.291473	12
18	<b>2306.069249</b>	<b>1153.538262</b>	2289.042700	1145.024988	2288.058684	<b>1144.532980</b>	L	<b>1144.559292</b>	572.783284	1127.532743	564.270010	1126.548727	563.778002	11
19	2403.122013	1202.064644	2386.095464	1193.551370	2385.111448	1193.059362	P	<b>1031.475228</b>	<b>516.241252</b>	1014.448679	507.727978	1013.464663	507.235970	10
20	2490.154041	1245.580658	2473.127492	1237.067384	2472.143476	<b>1236.575376</b>	S	<b>934.422464</b>	467.714870	917.395915	459.201596	916.411899	458.709588	9
21	2618.212619	1309.609947	2601.186070	1301.096673	2600.202054	1300.604665	Q	<b>847.390436</b>	424.198856	830.363887	415.685581	829.379871	415.193573	8
22	2733.239562	1367.123419	2716.213013	1358.610144	2715.228997	1358.118136	D	<b>719.331858</b>	360.169567	702.305309	351.656292	<b>701.321293</b>	351.164284	7
23	2834.287241	1417.647258	2817.260692	1409.133984	2816.276676	1408.641976	T	<b>604.304915</b>	302.656095	587.278366	294.142821	586.294350	293.650813	6
24	2891.308705	1446.157990	2874.282156	1437.644716	2873.298140	1437.152708	G	<b>503.257236</b>	252.132256	486.230687	243.618982	485.246671	243.126974	5
25	2978.340733	1489.674004	2961.314184	1481.160730	2960.330168	1480.668722	S	<b>446.235772</b>	223.621524	429.209223	215.108250	<b>428.225207</b>	214.616242	4
26	3075.393497	1538.200386	3058.366948	1529.687112	3057.382932	1529.195104	P	<b>359.203744</b>	180.105510	342.177195	171.592236	341.193179	171.100228	3
27	3162.425525	1581.716400	3145.398976	1573.203126	3144.414960	1572.711118	S	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	2
28							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **HLSQDTGSPSGMRPWEDLPSQDTGSPSR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
46.8	3335.529938	0.017758	<a href="#">HLSQDTGSPSGMRPWEDLPSQDTGSPSR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **IVGGQECK**

Found in **FA10\_HUMAN**, Coagulation factor X OS=Homo sapiens GN=F10 PE=1 SV=2

Match to Query 17754: 1200.596628 from(601.305590,2+) rtinseconds(1446) index(42544)

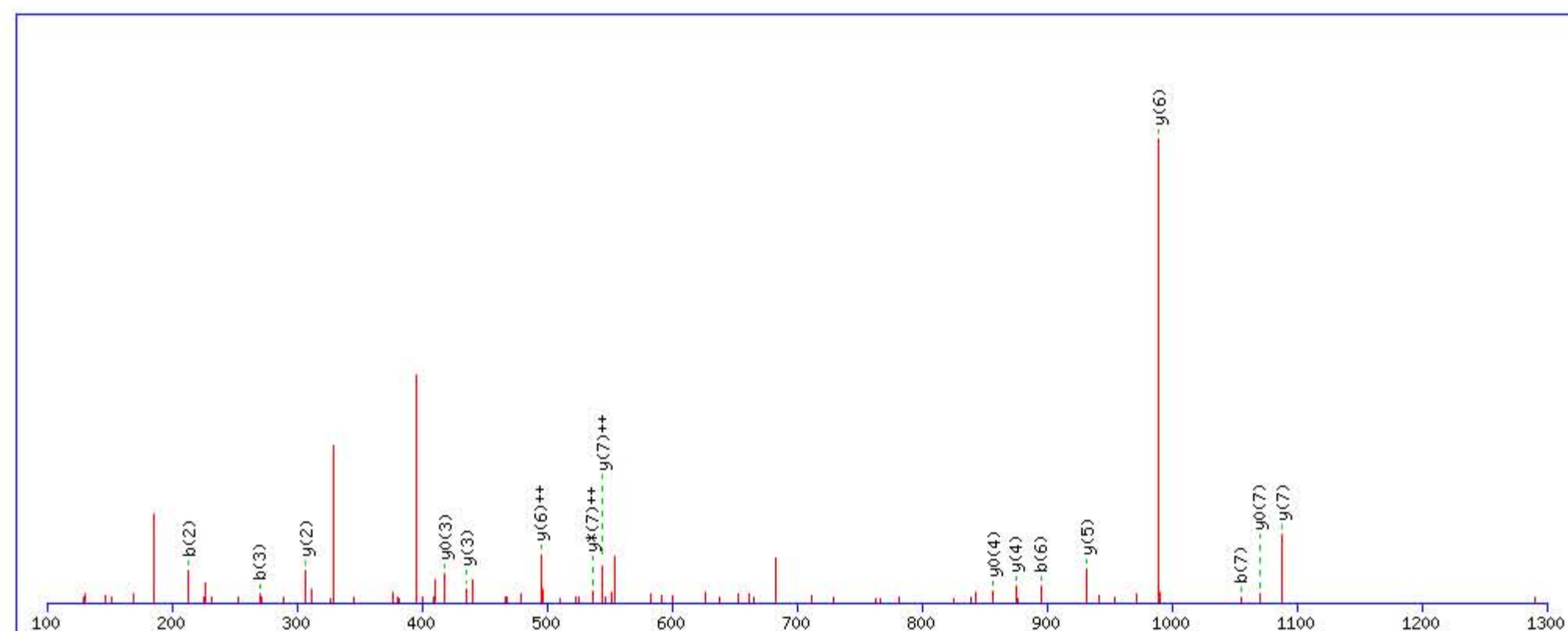
Title: Locus:1.1.1.3216.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1200.599503

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

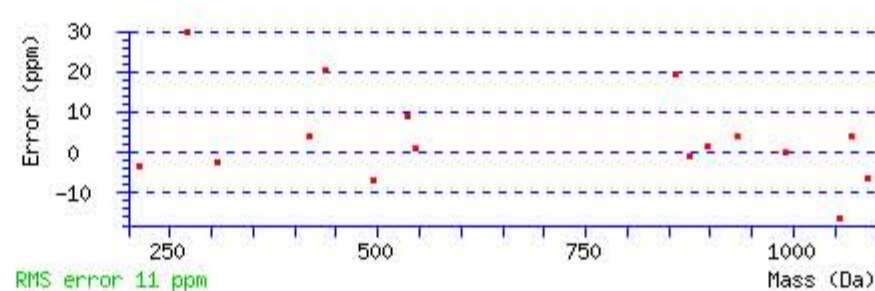
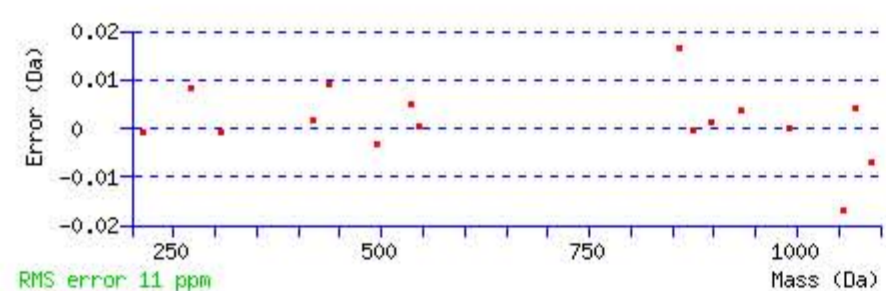
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.0022

Matches : 16/62 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							8
2	<b>213.159754</b>	107.083515					V	<b>1088.522714</b>	<b>544.764995</b>	1071.496165	<b>536.251721</b>	<b>1070.512149</b>	535.759713	7
3	<b>270.181218</b>	135.594247					G	<b>989.454300</b>	<b>495.230788</b>	972.427751	486.717514	971.443735	486.225506	6
4	327.202682	164.104979					G	<b>932.432836</b>	466.720056	915.406287	458.206782	914.422271	457.714774	5
5	766.428008	383.717642	749.401459	375.204368			Q	<b>875.411372</b>	438.209324	858.384823	429.696050	<b>857.400807</b>	429.204042	4
6	<b>895.470601</b>	448.238939	878.444052	439.725664	877.460036	439.233656	E	<b>436.186046</b>	218.596661	419.159497	210.083386	<b>418.175481</b>	209.591378	3
7	<b>1055.501250</b>	528.254263	1038.474701	519.740989	1037.490685	519.248981	C	<b>307.143453</b>	154.075364	290.116904	145.562090			2
8							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **IVGGQECK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
32.9	1200.599503	-0.002875	<a href="#">IVGGQECK</a>
4.2	1200.599503	-0.002875	<a href="#">LIQGDGCK</a>
1.1	1200.596100	0.000528	<a href="#">LVKMYDNR</a>
0.9	1200.607376	-0.010748	<a href="#">HTGVKPFQCK</a>

















# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **LASQACR**

Found in **FA12\_HUMAN**, Coagulation factor XII OS=Homo sapiens GN=F12 PE=1 SV=3

Match to Query 14650: 1115.553848 from(558.784200,2+) rtinseconds(1403) index(15231)

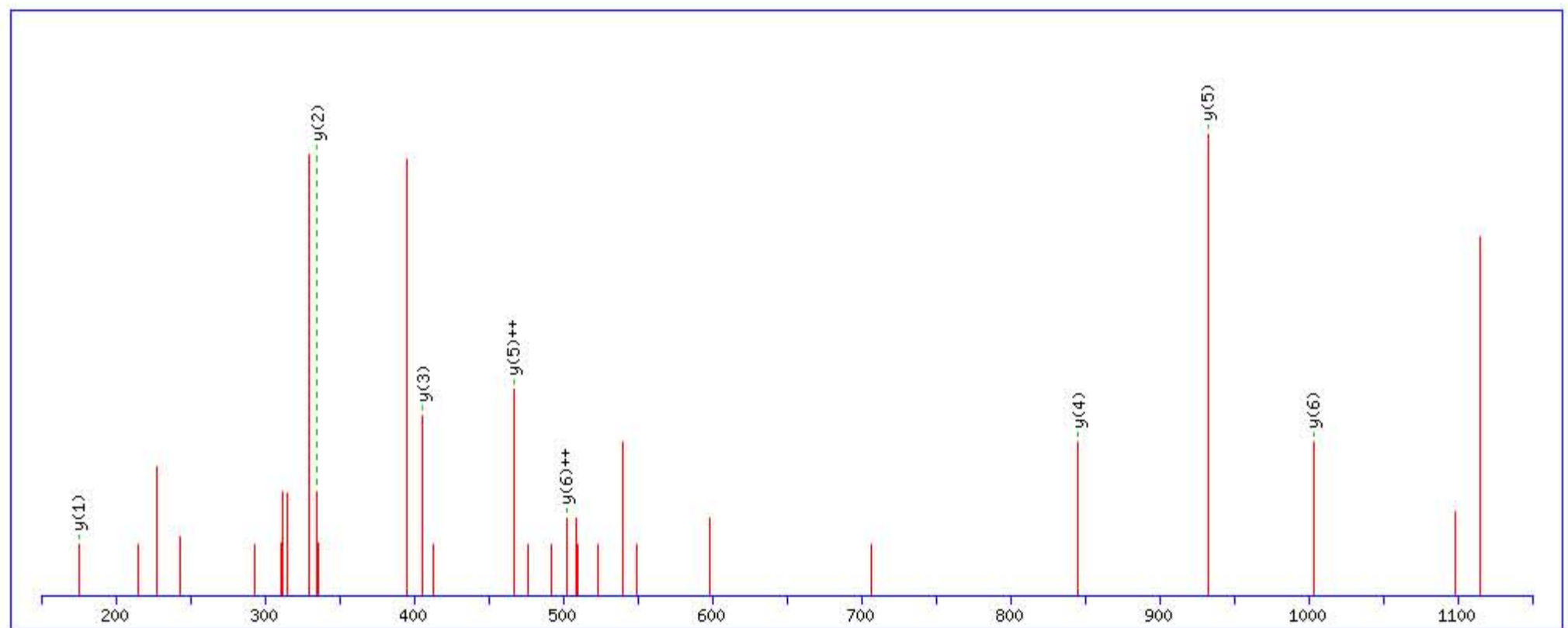
Title: Locus:1.1.1.3054.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1115.557953

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

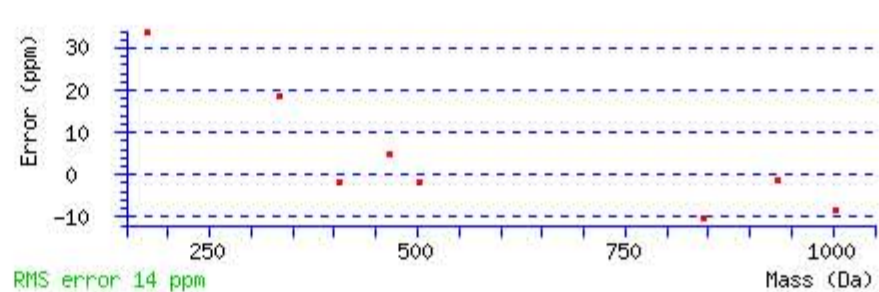
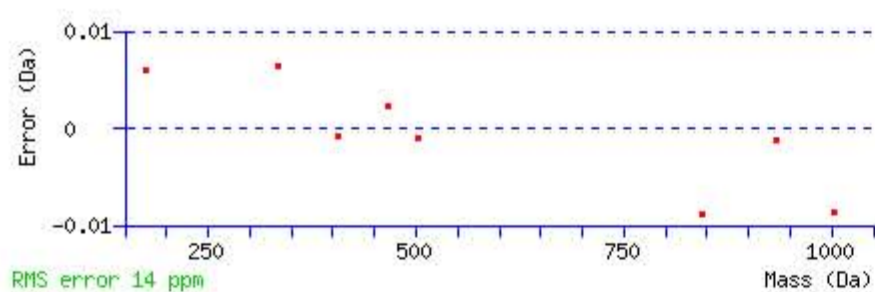
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 35 Expect: 0.002

Matches : 8/54 fragment ions using 18 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							7
2	185.128454	93.067865					A	1003.481183	502.244230	986.454634	493.730955	985.470618	493.238947	6
3	272.160482	136.583879			254.149917	127.578596	S	932.444069	466.725673	915.417520	458.212398	914.433504	457.720390	5
4	711.385808	356.196542	694.359259	347.683268	693.375243	347.191260	Q	845.412041	423.209659	828.385492	414.696384			4
5	782.422922	391.715099	765.396373	383.201824	764.412357	382.709816	A	406.186715	203.596995	389.160166	195.083721			3
6	942.453571	471.730424	925.427022	463.217149	924.443006	462.725141	C	335.149601	168.078438	318.123052	159.565164			2
7							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LASQACR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
35.4	1115.557953	-0.004105	<a href="#">LASQACR</a>
6.2	1115.550552	0.003296	<a href="#">LAAGSRCPER</a>
3.9	1115.557098	-0.003250	<a href="#">LEQGGTADGLR</a>
1.6	1115.564484	-0.010636	<a href="#">LVDPQEMLR</a>
1.6	1115.543350	0.010498	<a href="#">LEYKFCTR</a>
1.4	1115.546722	0.007126	<a href="#">LAQDACK</a>

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



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **TEQAAVAR**

Found in **FA12\_HUMAN**, Coagulation factor XII OS=Homo sapiens GN=F12 PE=1 SV=3

Match to Query 16393: 1155.603248 from(578.808900,2+) rtinseconds(1429) index(15438)

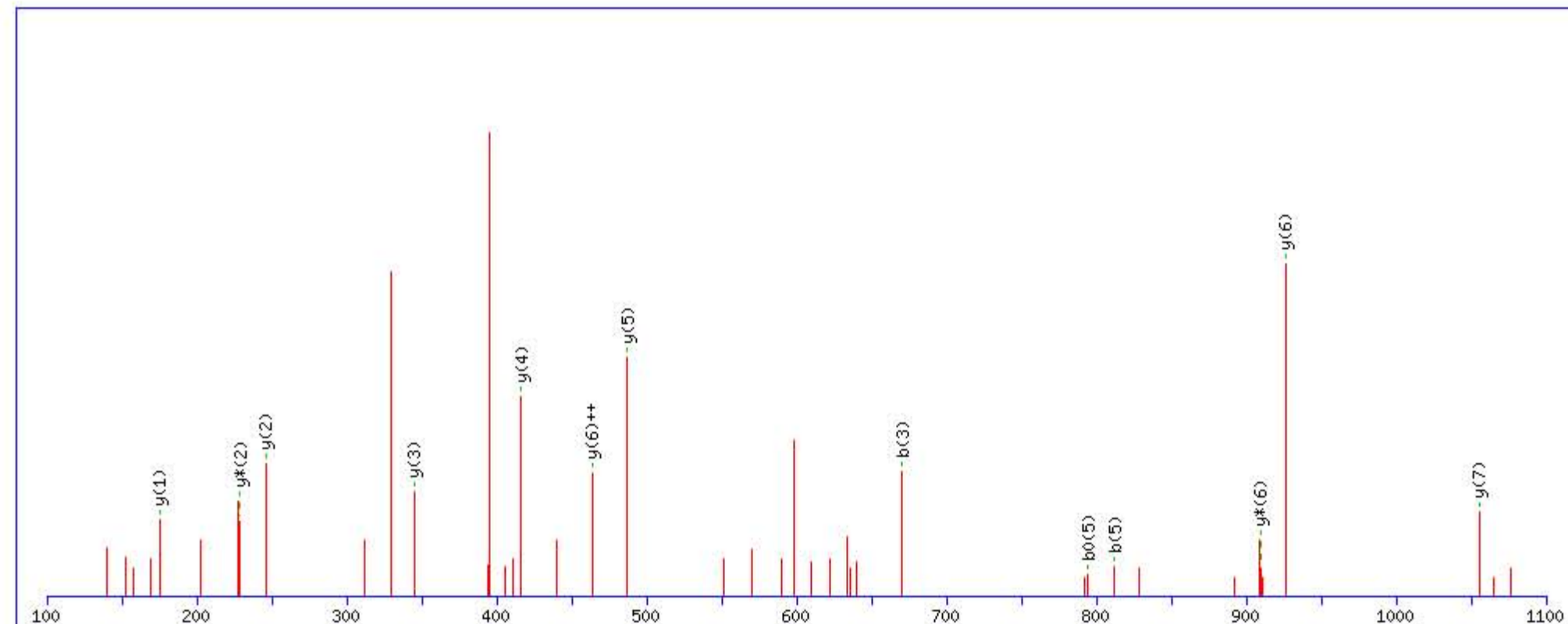
Title: Locus:1.1.1.3063.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 100 to 1100 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1155.607010

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

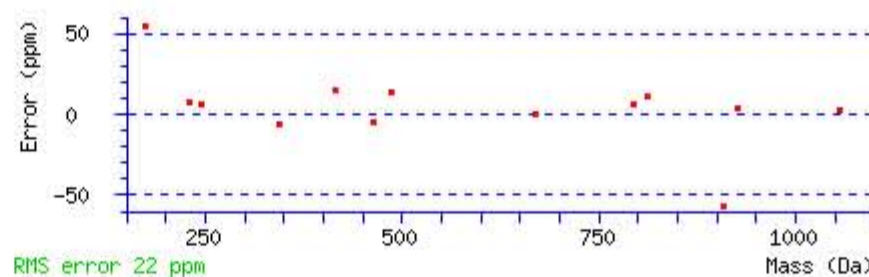
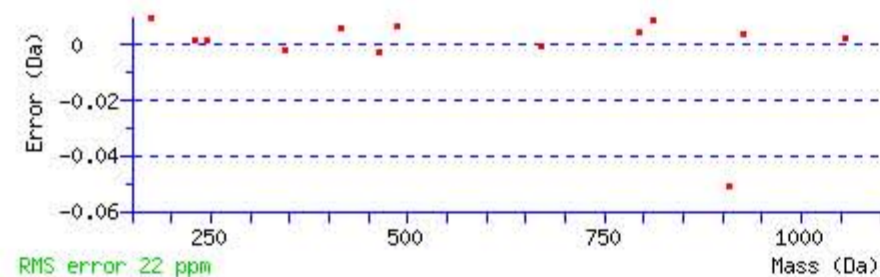
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 42 Expect: 0.0007

Matches : 13/68 fragment ions using 26 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							8
2	231.097548	116.052412			213.086983	107.047130	E	1055.566627	528.286951	1038.540078	519.773677	1037.556062	519.281669	7
3	670.322874	335.665075	653.296325	327.151801	652.312309	326.659793	Q	926.524034	463.765655	909.497485	455.252380			6
4	741.359988	371.183632	724.333439	362.670358	723.349423	362.178350	A	487.298708	244.152992	470.272159	235.639717			5
5	812.397102	406.702189	795.370553	398.188915	794.386537	397.696907	A	416.261594	208.634435	399.235045	200.121160			4
6	911.465516	456.236396	894.438967	447.723121	893.454951	447.231113	V	345.224480	173.115878	328.197931	164.602603			3
7	982.502630	491.754953	965.476081	483.241678	964.492065	482.749670	A	246.156066	123.581671	229.129517	115.068396			2
8							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [TEQAAVAR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
42.4	1155.607010	-0.003762	<a href="#">TEQAAVAR</a>
8.3	1155.588394	0.014854	<a href="#">VEQIEAGTPGR</a>
6.1	1155.607025	-0.003777	<a href="#">VQDSAVAR</a>
2.2	1155.614883	-0.011635	<a href="#">RSGDWLLPGR</a>

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





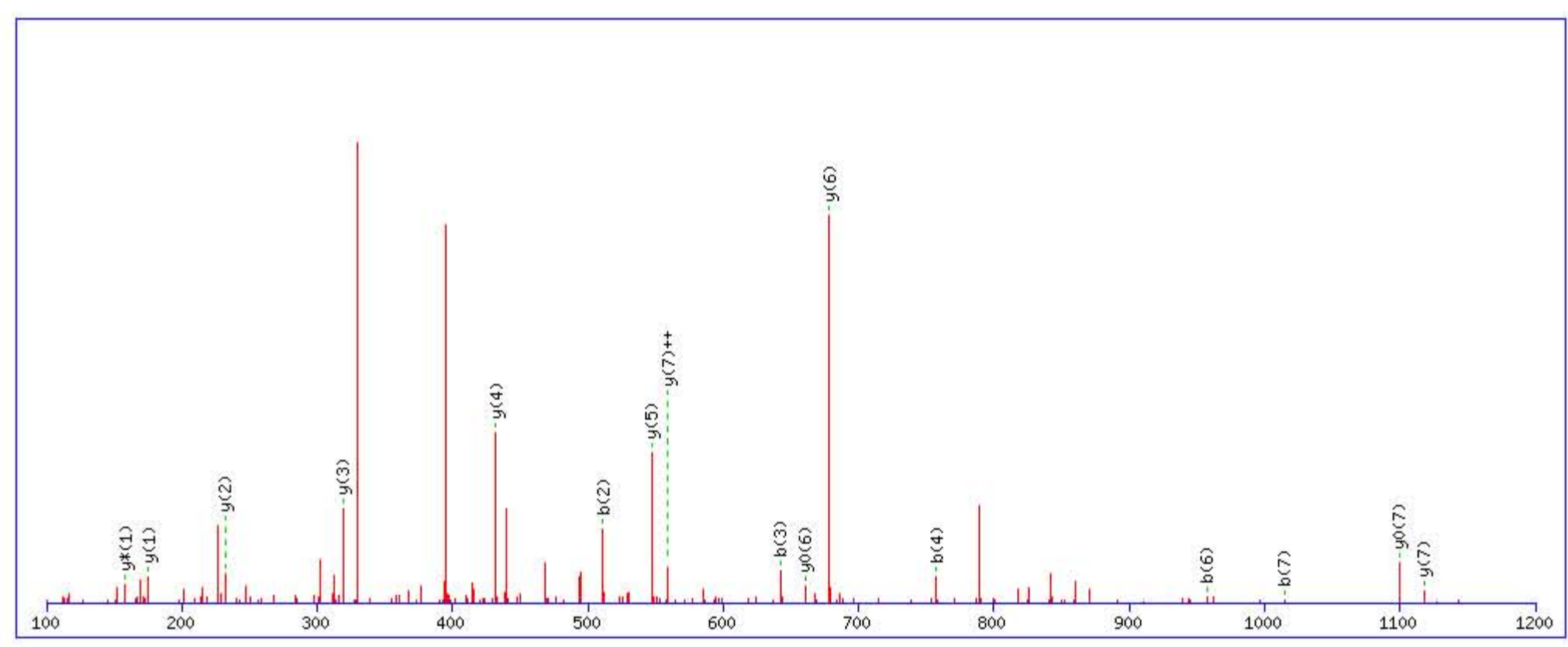
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AQMDLSGR**  
 Found in **F13A\_HUMAN**, Coagulation factor XIII A chain OS=Homo sapiens GN=F13A1 PE=1 SV=4

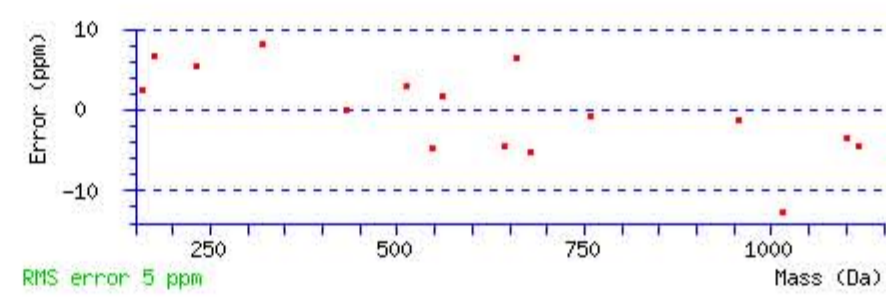
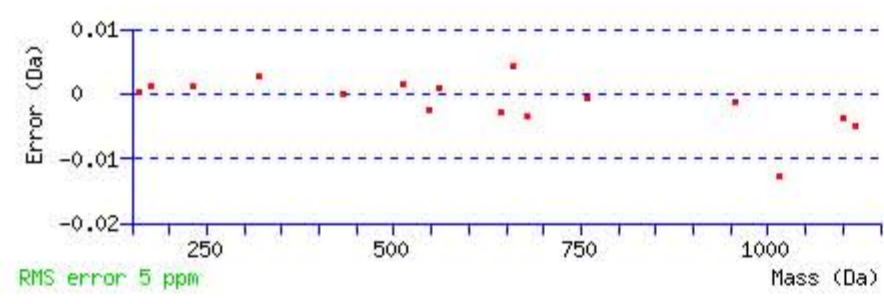
Match to Query 17453: 1187.574488 from(594.794520,2+) rtinseconds(1758) index(17490)  
 Title: Locus:1.1.1.3178.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1187.579086  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q2 : Biotin:Thermo-21345 (Q)  
 Ions Score: 38 Expect: 0.0027  
 Matches : 16/72 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							8
2	<b>511.269716</b>	256.138496	494.243167	247.625221			Q	<b>1117.549262</b>	<b>559.278269</b>	1100.522713	550.764995	<b>1099.538697</b>	550.272987	7
3	<b>642.310201</b>	321.658739	625.283652	313.145464			M	<b>678.323936</b>	339.665606	661.297387	331.152332	<b>660.313371</b>	330.660324	6
4	<b>757.337144</b>	379.172210	740.310595	370.658935	739.326579	370.166927	D	<b>547.283451</b>	274.145364	530.256902	265.632089	529.272886	265.140081	5
5	870.421208	435.714242	853.394659	427.200967	852.410643	426.708959	L	<b>432.256508</b>	216.631892	415.229959	208.118617	414.245943	207.626609	4
6	<b>957.453236</b>	479.230256	940.426687	470.716981	939.442671	470.224973	S	<b>319.172444</b>	160.089860	302.145895	151.576585	301.161879	151.084577	3
7	<b>1014.474700</b>	507.740988	997.448151	499.227713	996.464135	498.735705	G	<b>232.140416</b>	116.573846	215.113867	108.060571			2
8							R	<b>175.118952</b>	88.063114	<b>158.092403</b>	79.549839			1



NCBI BLAST search of **AQMDLSGR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
37.8	1187.579086	-0.004598	<a href="#">AQMDLSGR</a>
10.5	1187.578201	-0.003713	<a href="#">SSLENEPSLGR</a>
9.0	1187.568344	0.006144	<a href="#">DHGFKVSADGR</a>
7.5	1187.579086	-0.004598	<a href="#">QAAEVMGR</a>
6.2	1187.590302	-0.015814	<a href="#">AQEAMRR</a>
5.3	1187.568314	0.006174	<a href="#">QREDIWEGR</a>
3.6	1187.557083	0.017405	<a href="#">EIGDVENWAR</a>
3.1	1187.564255	0.010233	<a href="#">ARREEEENR</a>
2.2	1187.575714	-0.001226	<a href="#">YQDAAGPR</a>
1.8	1187.557968	0.016520	<a href="#">QPCPYGR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **FQEGQEEER**

Found in **F13A\_HUMAN**, Coagulation factor XIII A chain OS=Homo sapiens GN=F13A1 PE=1 SV=4

Match to Query 26184: 1461.647308 from(731.830930,2+) rtinseconds(1509) index(15903)

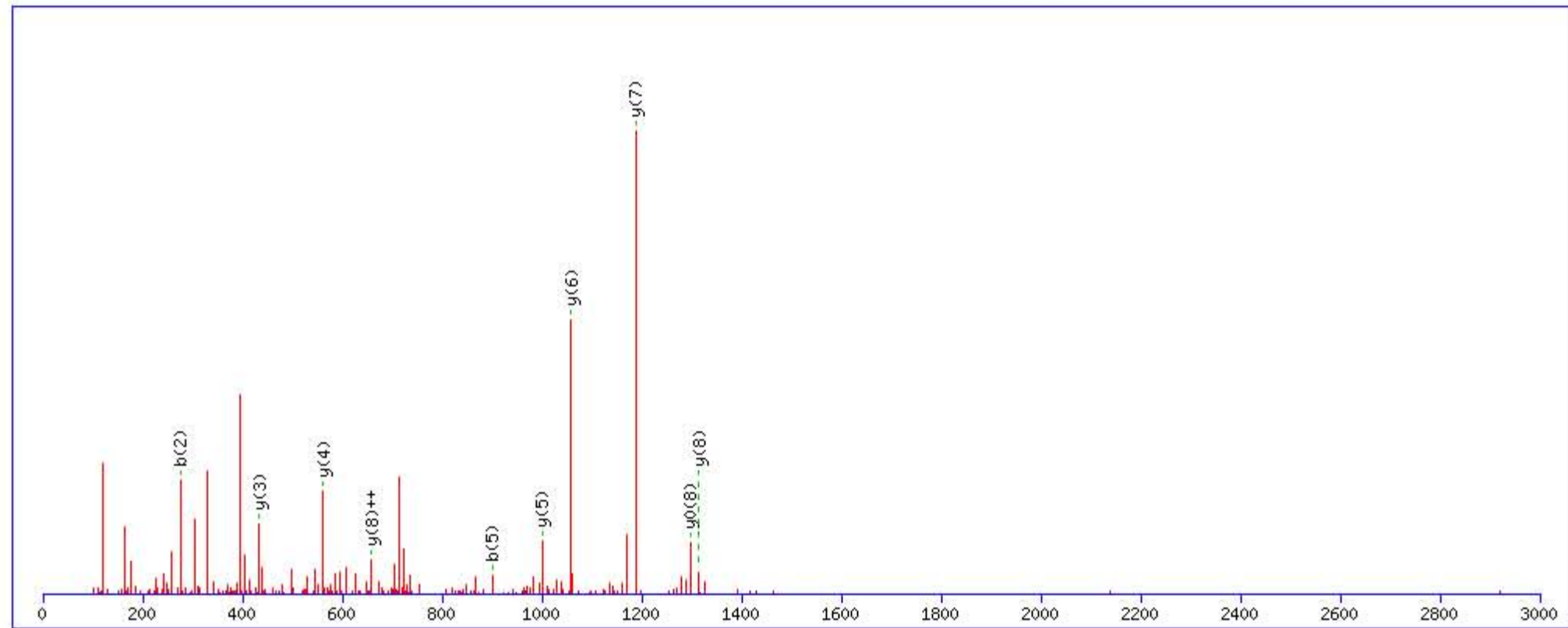
Title: Locus:1.1.1.3091.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1461.655807

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

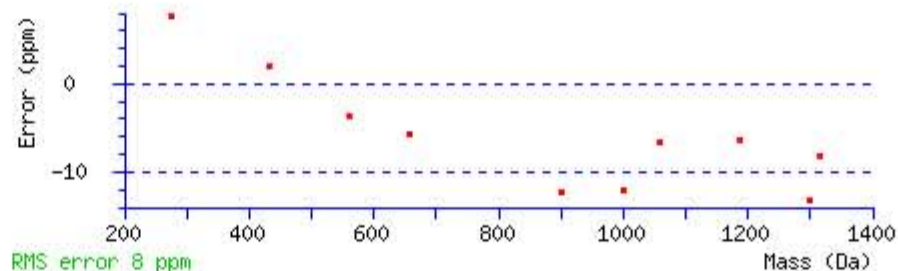
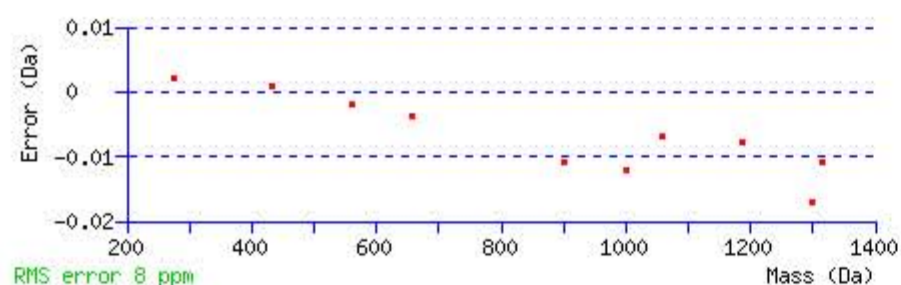
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 46 Expect: 0.00016

Matches : 10/88 fragment ions using 14 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							9
2	<b>276.134268</b>	138.570772	259.107719	130.057497			Q	<b>1315.594692</b>	<b>658.300984</b>	1298.568143	649.787710	<b>1297.584127</b>	649.295702	8
3	405.176861	203.092068	388.150312	194.578794	387.166296	194.086786	E	<b>1187.536114</b>	594.271695	1170.509565	585.758421	1169.525549	585.266413	7
4	462.198325	231.602800	445.171776	223.089526	444.187760	222.597518	G	<b>1058.493521</b>	529.750399	1041.466972	521.237124	1040.482956	520.745116	6
5	<b>901.423651</b>	451.215464	884.397102	442.702189	883.413086	442.210181	Q	<b>1001.472057</b>	501.239667	984.445508	492.726392	983.461492	492.234384	5
6	1030.466244	515.736760	1013.439695	507.223485	1012.455679	506.731477	E	<b>562.246731</b>	281.627004	545.220182	273.113729	544.236166	272.621721	4
7	1159.508837	580.258057	1142.482288	571.744782	1141.498272	571.252774	E	<b>433.204138</b>	217.105707	416.177589	208.592433	415.193573	208.100425	3
8	1288.551430	644.779353	1271.524881	636.266079	1270.540865	635.774071	E	304.161545	152.584411	287.134996	144.071136	286.150980	143.579128	2
9							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **FQEGQEEER**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
45.7	1461.655807	-0.008499	<a href="#">FQEGQEEER</a>
11.0	1461.640564	0.006744	<a href="#">NSGTQSDGEEK</a>
8.0	1461.648392	-0.001084	<a href="#">HREELSDYEER</a>
8.0	1461.655807	-0.008499	<a href="#">FQEGQEEER</a>
6.4	1461.640564	0.006744	<a href="#">VMTDVAGNPEEER</a>
2.6	1461.637161	0.010147	<a href="#">ESELQWQEEER</a>
1.6	1461.651794	-0.004486	<a href="#">ATSQHECSSSQLK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **HVYGELDVQIQR**

Found in **F13A\_HUMAN**, Coagulation factor XIII A chain OS=Homo sapiens GN=F13A1 PE=1 SV=4

Match to Query 34995: 1766.909892 from(589.977240,3+) rtinseconds(1951) index(18755)

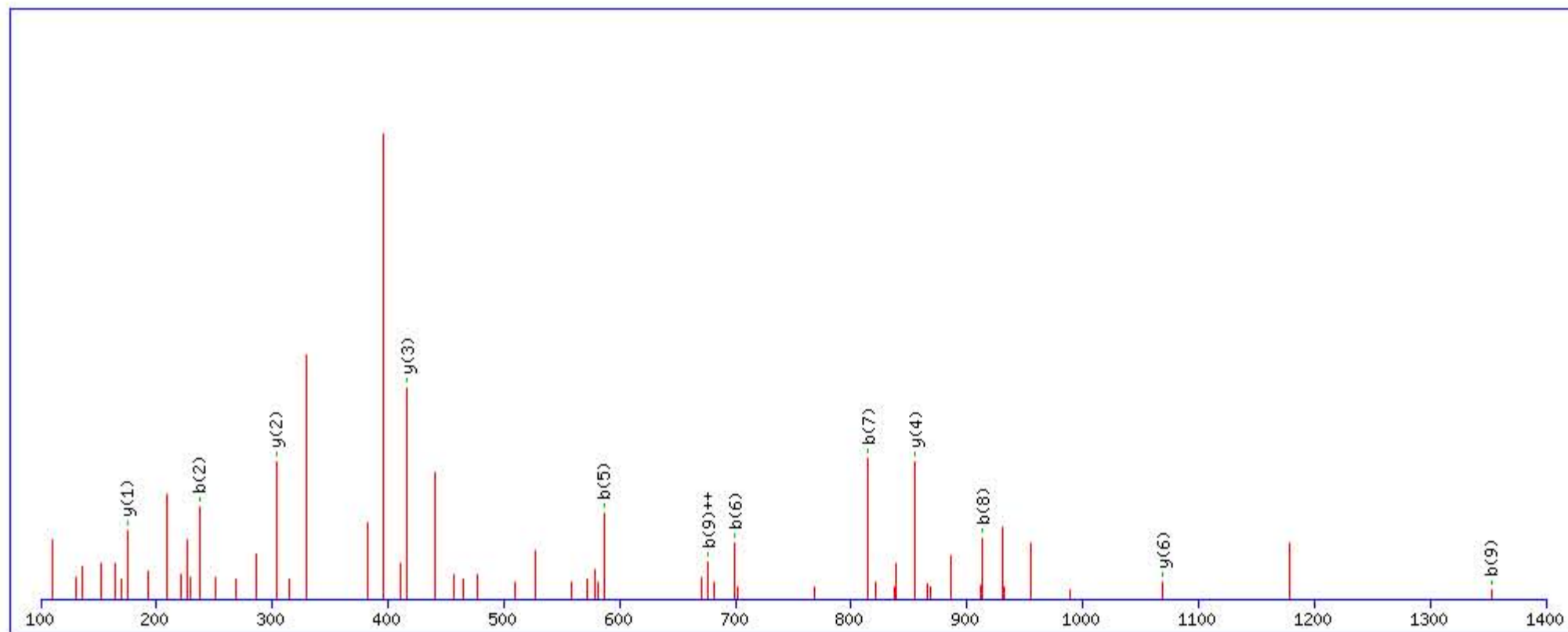
Title: Locus:1.1.1.3245.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1766.913773

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

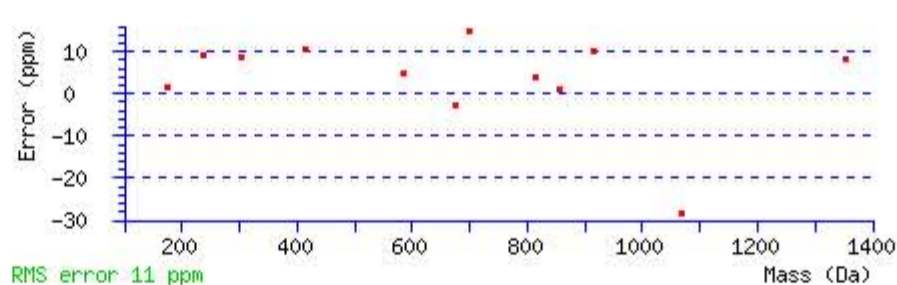
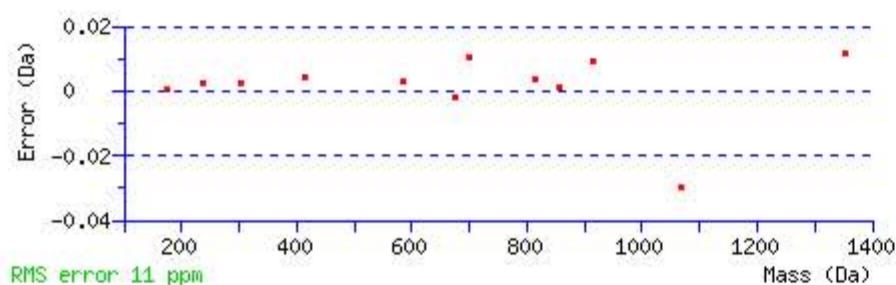
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 36 Expect: 0.0014

Matches : 12/98 fragment ions using 20 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							12
2	<b>237.134602</b>	119.070939					V	1630.862141	815.934708	1613.835592	807.421434	1612.851576	806.929426	11
3	400.197931	200.602603					Y	1531.793727	766.400501	1514.767178	757.887227	1513.783162	757.395219	10
4	457.219395	229.113335					G	1368.730398	684.868837	1351.703849	676.355563	1350.719833	675.863554	9
5	<b>586.261988</b>	293.634632			568.251423	284.629349	E	1311.708934	656.358105	1294.682385	647.844830	1293.698369	647.352822	8
6	<b>699.346052</b>	350.176664			681.335487	341.171382	L	1182.666341	591.836808	1165.639792	583.323534	1164.655776	582.831526	7
7	<b>814.372995</b>	407.690136			796.362430	398.684853	D	<b>1069.582277</b>	535.294776	1052.555728	526.781502	1051.571712	526.289494	6
8	<b>913.441409</b>	457.224342			895.430844	448.219060	V	954.555334	477.781305	937.528785	469.268030			5
9	<b>1352.666735</b>	<b>676.837006</b>	1335.640186	668.323731	1334.656170	667.831723	Q	<b>855.486920</b>	428.247098	838.460371	419.733823			4
10	1465.750799	733.379037	1448.724250	724.865763	1447.740234	724.373755	I	<b>416.261594</b>	208.634435	399.235045	200.121160			3
11	1593.809377	797.408326	1576.782828	788.895052	1575.798812	788.403044	Q	<b>303.177530</b>	152.092403	286.150981	143.579128			2
12							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **HVYGELDVQIQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
36.0	1766.913773	-0.003881	<a href="#">HVYGELDVQIQR</a>
15.6	1766.913773	-0.003881	<a href="#">HVYGELDVQIQR</a>
5.4	1766.888138	0.021754	<a href="#">IMQNGTILYTMR</a>
4.9	1766.917130	-0.007238	<a href="#">KLSSQLVEHCQK</a>
0.3	1766.924988	-0.015096	<a href="#">GNFPVEAVKMQHAIAR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **FQEGQEER**

Found in **F13A\_HUMAN**, Coagulation factor XIII A chain OS=Homo sapiens GN=F13A1 PE=1 SV=4

Match to Query 35192: 1772.832148 from(887.423350,2+) rtinseconds(1903) index(4260)

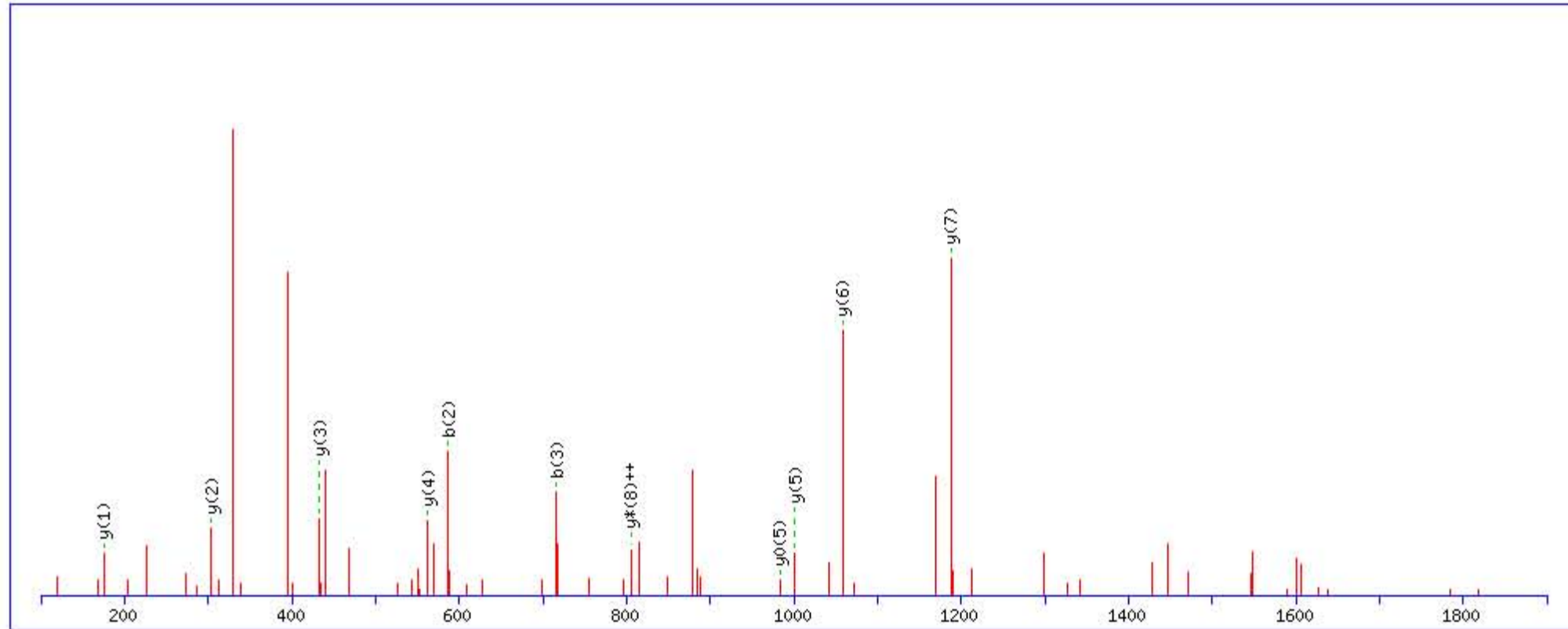
Title: Locus:1.1.1.3182.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1772.822556

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

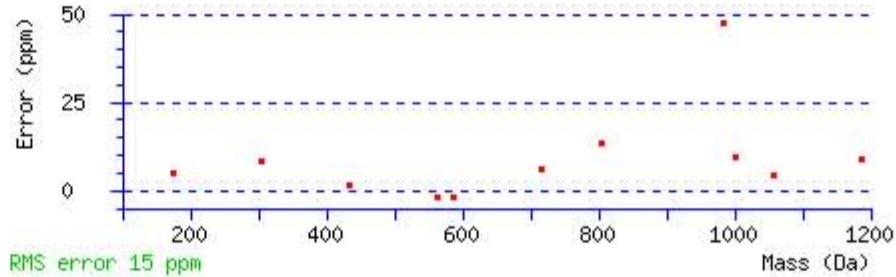
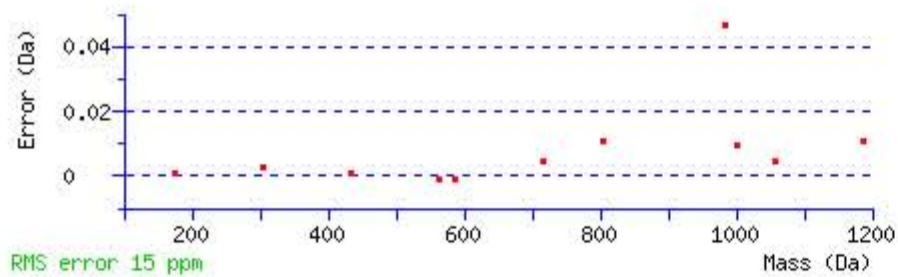
Q2 : Biotin:Thermo-21345 (Q)

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.034

Matches : 11/88 fragment ions using 32 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							9
2	<b>587.301016</b>	294.154146	570.274467	285.640872			Q	1626.761440	813.884358	1609.734891	<b>805.371084</b>	1608.750875	804.879076	8
3	<b>716.343609</b>	358.675443	699.317060	350.162168	698.333044	349.670160	E	<b>1187.536114</b>	594.271695	1170.509565	585.758421	1169.525549	585.266413	7
4	773.365073	387.186175	756.338524	378.672900	755.354508	378.180892	G	<b>1058.493521</b>	529.750399	1041.466972	521.237124	1040.482956	520.745116	6
5	1212.590399	606.798837	1195.563850	598.285563	1194.579834	597.793555	Q	<b>1001.472057</b>	501.239667	984.445508	492.726392	<b>983.461492</b>	492.234384	5
6	1341.632992	671.320134	1324.606443	662.806860	1323.622427	662.314852	E	<b>562.246731</b>	281.627004	545.220182	273.113729	544.236166	272.621721	4
7	1470.675585	735.841431	1453.649036	727.328156	1452.665020	726.836148	E	<b>433.204138</b>	217.105707	416.177589	208.592433	415.193573	208.100425	3
8	1599.718178	800.362727	1582.691629	791.849453	1581.707613	791.357445	E	<b>304.161545</b>	152.584411	287.134996	144.071136	286.150980	143.579128	2
9							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **FQEGQEER**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
26.1	1772.822556	0.009592	<a href="#">FQEGQEER</a>
14.0	1772.828873	0.003275	<a href="#">QAEQEATVAREEQER</a>
2.4	1772.836288	-0.004140	<a href="#">ADGSLTGGGLEAAAAMAPER</a>
0.7	1772.854904	-0.022756	<a href="#">AGNLMSAMLHVEALER</a>
0.3	1772.851532	-0.019384	<a href="#">YEMFLNQARKNTDK</a>





# MASCOT Search Results

## Peptide View

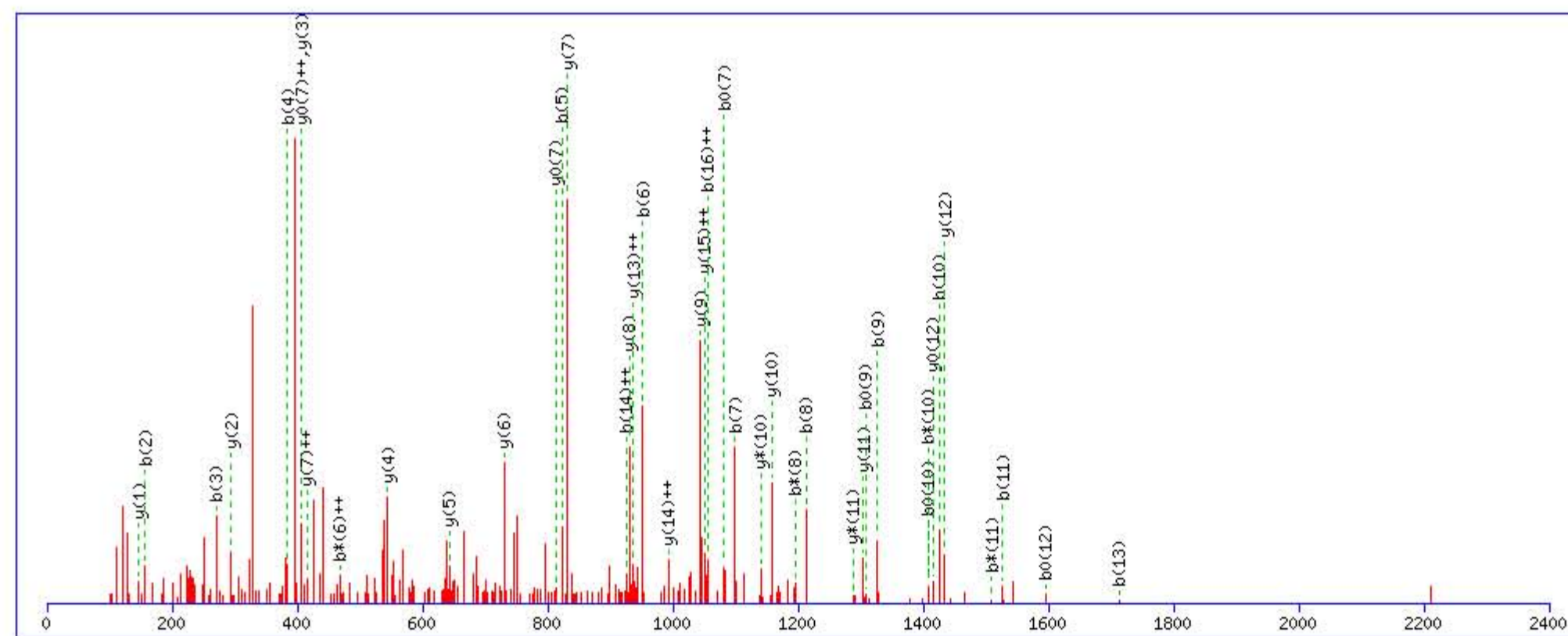
MS/MS Fragmentation of **GVNLQEFLNVTSVHLFK**  
 Found in **F13A\_HUMAN**, Coagulation factor XIII A chain OS=Homo sapiens GN=F13A1 PE=1 SV=4

Match to Query 44156: 2255.211522 from(752.744450,3+) rtinseconds(3032) index(38251)  
 Title: Locus:1.1.1.3716.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

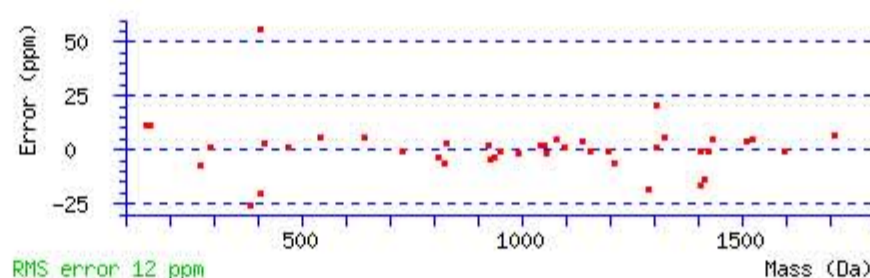
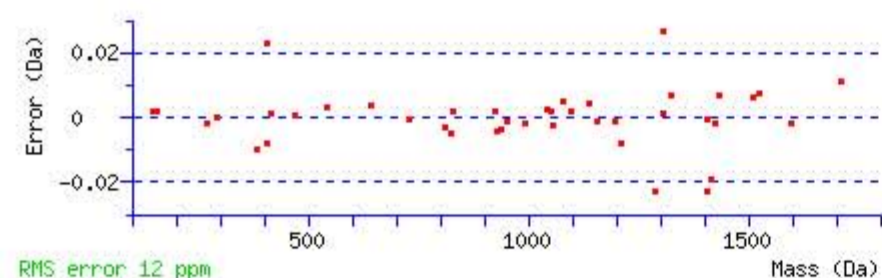
Or, Plot from  to  Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2255.213654  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q5 : Biotin:Thermo-21345 (Q)  
 Ions Score: 58 Expect: 3.4e-005  
 Matches : 42/168 fragment ions using 89 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					<b>G</b>							17
2	<b>157.097154</b>	79.052215					<b>V</b>	2199.199458	1100.103367	2182.172909	1091.590092	2181.188893	1091.098084	16
3	<b>271.140081</b>	136.073679	254.113532	127.560404			<b>N</b>	2100.131044	<b>1050.569160</b>	2083.104495	1042.055885	2082.120479	1041.563877	15
4	<b>384.224145</b>	192.615711	367.197596	184.102436			<b>L</b>	1986.088117	<b>993.547697</b>	1969.061568	985.034422	1968.077552	984.542414	14
5	<b>823.449471</b>	412.228374	806.422922	403.715099			<b>Q</b>	1873.004053	<b>937.005665</b>	1855.977504	928.492390	1854.993488	928.000382	13
6	<b>952.492064</b>	476.749670	935.465515	<b>468.236396</b>	934.481499	467.744388	<b>E</b>	<b>1433.778727</b>	717.393002	1416.752178	708.879727	<b>1415.768162</b>	708.387719	12
7	<b>1099.560478</b>	550.283877	1082.533929	541.770603	<b>1081.549913</b>	541.278595	<b>F</b>	<b>1304.736134</b>	652.871705	<b>1287.709585</b>	644.358431	1286.725569	643.866423	11
8	<b>1212.644542</b>	606.825909	<b>1195.617993</b>	598.312635	1194.633977	597.820627	<b>L</b>	<b>1157.667720</b>	579.337498	<b>1140.641171</b>	570.824224	1139.657155	570.332216	10
9	<b>1326.687469</b>	663.847373	1309.660920	655.334098	<b>1308.676904</b>	654.842090	<b>N</b>	<b>1044.583656</b>	522.795466	1027.557107	514.282192	1026.573091	513.790184	9
10	<b>1425.755883</b>	713.381580	<b>1408.729334</b>	704.868305	<b>1407.745318</b>	704.376297	<b>V</b>	<b>930.540729</b>	465.774003	913.514180	457.260728	912.530164	456.768720	8
11	<b>1526.803562</b>	763.905419	<b>1509.777013</b>	755.392145	1508.792997	754.900137	<b>T</b>	<b>831.472315</b>	<b>416.239796</b>	814.445766	407.726521	<b>813.461750</b>	<b>407.234513</b>	7
12	1613.835590	807.421433	1596.809041	798.908159	<b>1595.825025</b>	798.416151	<b>S</b>	<b>730.424636</b>	365.715956	713.398087	357.202682	712.414071	356.710674	6
13	<b>1712.904004</b>	856.955640	1695.877455	848.442366	1694.893439	847.950358	<b>V</b>	<b>643.392608</b>	322.199942	626.366059	313.686668			5
14	1849.962916	<b>925.485096</b>	1832.936367	916.971822	1831.952351	916.479814	<b>H</b>	<b>544.324194</b>	272.665735	527.297645	264.152461			4
15	1963.046980	982.027128	1946.020431	973.513854	1945.036415	973.021846	<b>L</b>	<b>407.265282</b>	204.136279	390.238733	195.623004			3
16	2110.115394	<b>1055.561335</b>	2093.088845	1047.048060	2092.104829	1046.556052	<b>F</b>	<b>294.181218</b>	147.594247	277.154669	139.080973			2
17							<b>K</b>	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [GVNLQEFLNVTSVHLFK](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
57.9	2255.213654	-0.002132	<a href="#">GVNLQEFLNVTSVHLFK</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **FCGQLGSPLGNPPGK**

Found in **C1R\_HUMAN**, Complement C1r subcomponent OS=Homo sapiens GN=C1R PE=1 SV=2

Match to Query 36428: 1838.907788 from(920.461170,2+) rtinseconds(2120) index(46717)

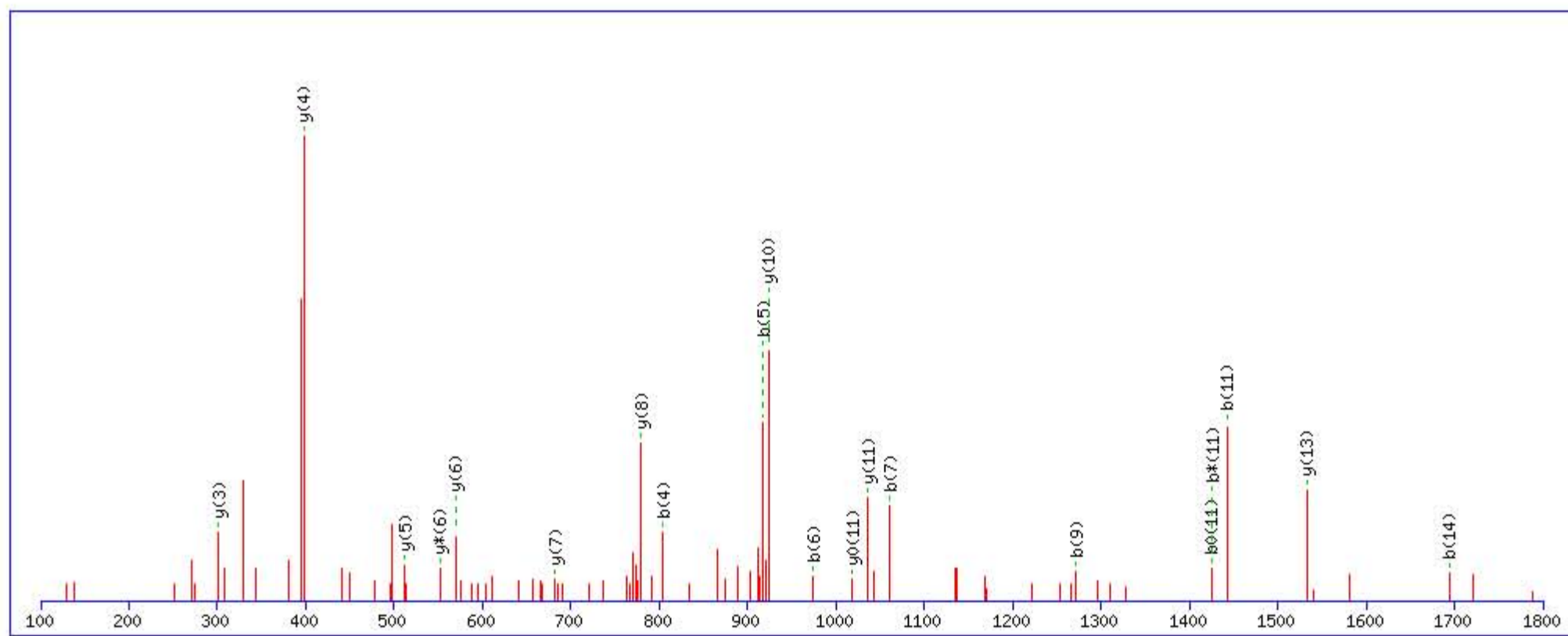
Title: Locus:1.1.1.3450.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or,  Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1838.917160

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

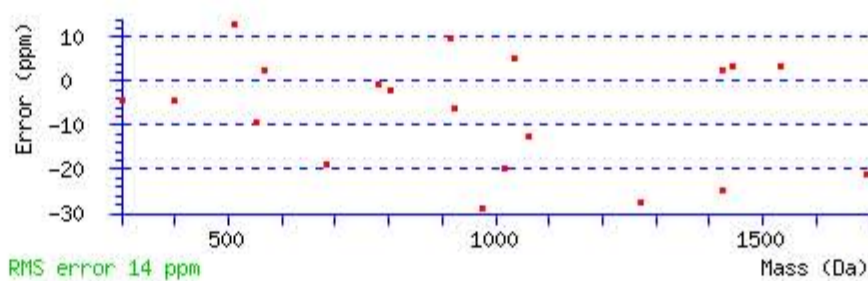
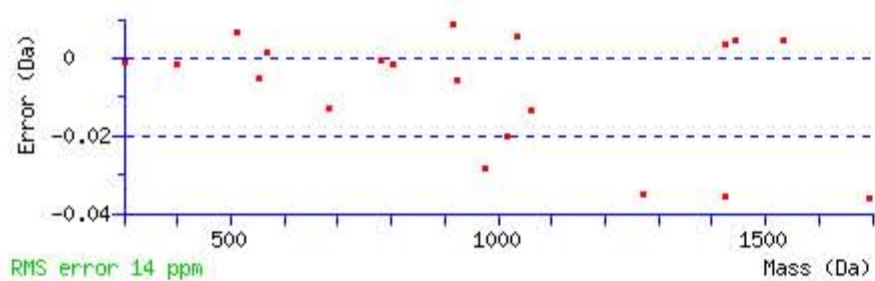
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 62 Expect: 2.2e-006

Matches : 20/134 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							15
2	308.106339	154.556807					C	1692.856010	846.931643	1675.829461	838.418369	1674.845445	837.926360	14
3	365.127803	183.067539					G	<b>1532.825361</b>	766.916318	1515.798812	758.403044	1514.814796	757.911036	13
4	<b>804.353129</b>	402.680203	787.326580	394.166928			Q	1475.803897	738.405587	1458.777348	729.892312	1457.793332	729.400304	12
5	<b>917.437193</b>	459.222235	900.410644	450.708960			L	<b>1036.578571</b>	518.792924	1019.552022	510.279649	<b>1018.568006</b>	509.787641	11
6	<b>974.458657</b>	487.732967	957.432108	479.219692			G	<b>923.494507</b>	462.250892	906.467958	453.737617	905.483942	453.245609	10
7	<b>1061.490685</b>	531.248981	1044.464136	522.735706	1043.480120	522.243698	S	866.473043	433.740160	849.446494	425.226885	848.462478	424.734877	9
8	1158.543449	579.775363	1141.516900	571.262088	1140.532884	570.770080	P	<b>779.441015</b>	390.224145	762.414466	381.710871			8
9	<b>1271.627513</b>	636.317395	1254.600964	627.804120	1253.616948	627.312112	L	<b>682.388251</b>	341.697763	665.361702	333.184489			7
10	1328.648977	664.828127	1311.622428	656.314852	1310.638412	655.822844	G	<b>569.304187</b>	285.155732	<b>552.277638</b>	276.642457			6
11	<b>1442.691904</b>	721.849590	<b>1425.665355</b>	713.336316	<b>1424.681339</b>	712.844308	N	<b>512.282723</b>	256.645000	495.256174	248.131725			5
12	1539.744668	770.375972	1522.718119	761.862698	1521.734103	761.370690	P	<b>398.239796</b>	199.623536	381.213247	191.110261			4
13	1636.797432	818.902354	1619.770883	810.389080	1618.786867	809.897072	P	<b>301.187032</b>	151.097154	284.160483	142.583879			3
14	<b>1693.818896</b>	847.413086	1676.792347	838.899812	1675.808331	838.407804	G	204.134268	102.570772	187.107719	94.057497			2
15							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **FCGQLGSPLGNPPGK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
61.5	1838.917160	-0.009372	<a href="#">FCGQLGSPLGNPPGK</a>
1.2	1838.905029	0.002759	<a href="#">EEFIERIQGLDFDTK</a>

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

# MASCOT SEARCH RESULTS

### Peptide View

MS/MS Fragmentation of **IQYYCHEPYK**

Found in **C1R\_HUMAN**, Complement C1r subcomponent OS=Homo sapiens GN=C1R PE=1 SV=2

Match to Query 37105: 1873.850382 from(625.624070,3+) rtinseconds(1725) index(30111)

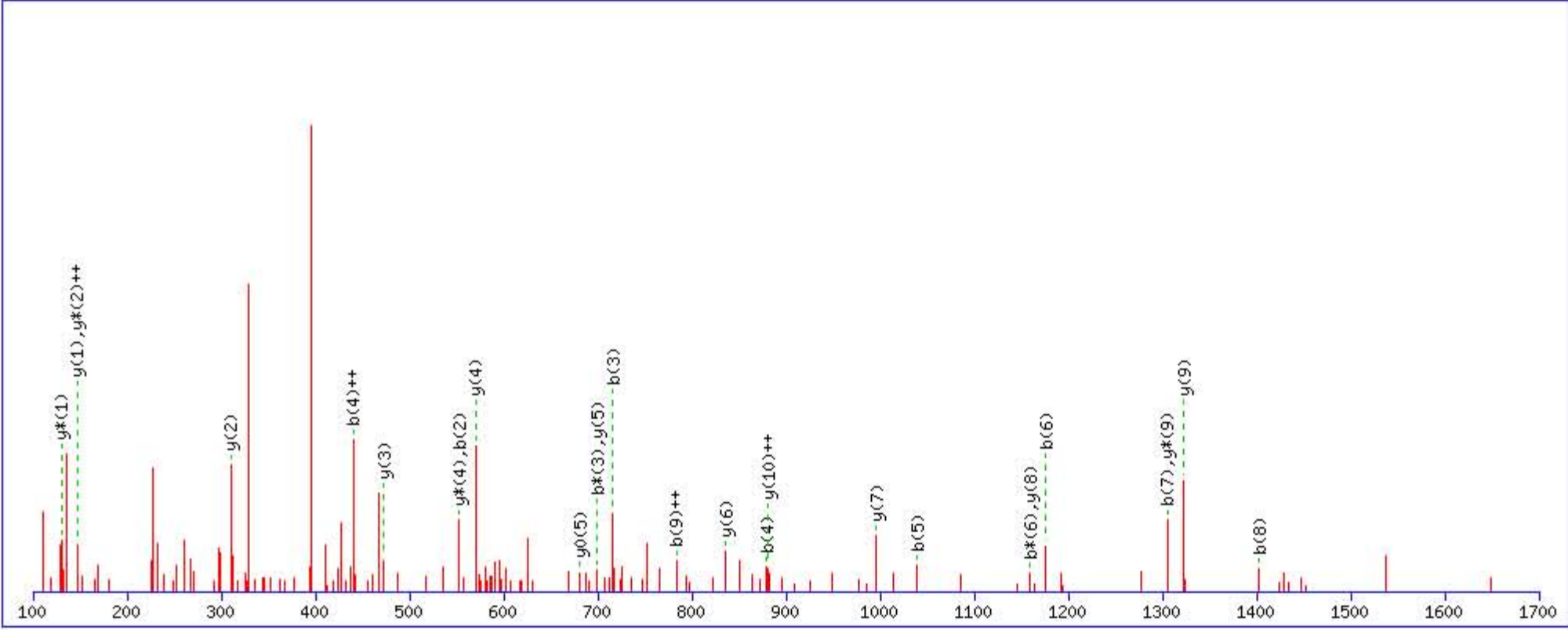
Title: Locus:1.1.1.3264.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 100 to 1700 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1873.853119

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

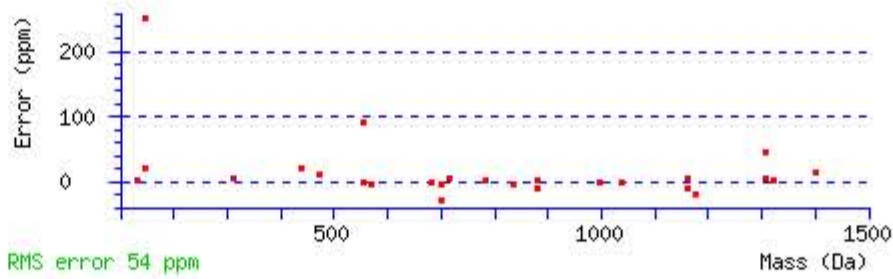
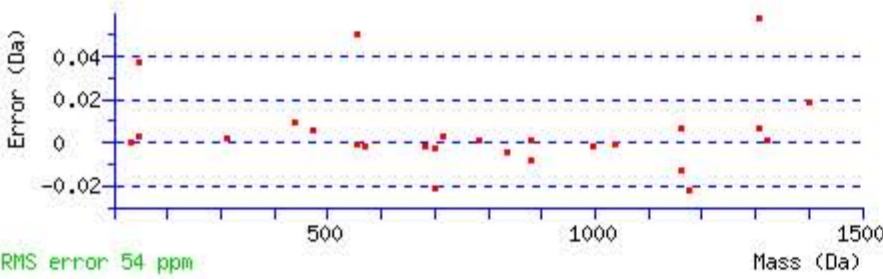
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.029

Matches : 26/98 fragment ions using 66 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							11
2	<b>553.316666</b>	277.161971	536.290117	268.648697			Q	1761.776364	<b>881.391820</b>	1744.749815	872.878546	1743.765799	872.386538	10
3	<b>716.379995</b>	358.693636	<b>699.353446</b>	350.180361			Y	<b>1322.551038</b>	661.779157	<b>1305.524489</b>	653.265883	1304.540473	652.773875	9
4	<b>879.443324</b>	<b>440.225300</b>	862.416775	431.712026			Y	<b>1159.487709</b>	580.247493	1142.461160	571.734218	1141.477144	571.242210	8
5	<b>1039.473973</b>	520.240625	1022.447424	511.727350			C	<b>996.424380</b>	498.715828	979.397831	490.202554	978.413815	489.710546	7
6	<b>1176.532885</b>	588.770081	<b>1159.506336</b>	580.256806			H	<b>836.393731</b>	418.700504	819.367182	410.187229	818.383166	409.695221	6
7	<b>1305.575478</b>	653.291377	1288.548929	644.778103	1287.564913	644.286094	E	<b>699.334819</b>	350.171048	682.308270	341.657773	<b>681.324254</b>	341.165765	5
8	<b>1402.628242</b>	701.817759	1385.601693	693.304485	1384.617677	692.812477	P	<b>570.292226</b>	285.649751	<b>553.265677</b>	277.136477			4
9	1565.691571	<b>783.349424</b>	1548.665022	774.836149	1547.681006	774.344141	Y	<b>473.239462</b>	237.123369	456.212913	228.610095			3
10	1728.754900	864.881088	1711.728351	856.367814	1710.744335	855.875806	Y	<b>310.176133</b>	155.591705	293.149584	<b>147.078430</b>			2
11							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of [IQYYCHEPYK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
25.7	1873.853119	-0.002737	<a href="#">IQYYCHEPYK</a>

**Peptide View**

MS/MS Fragmentation of **QDACQGDSSGGVFAVR**

Found in **C1R\_HUMAN**, Complement C1r subcomponent OS=Homo sapiens GN=C1R PE=1 SV=2

Match to Query 37141: 1876.849182 from(626.623670,3+) rtinseconds(1969) index(31619)

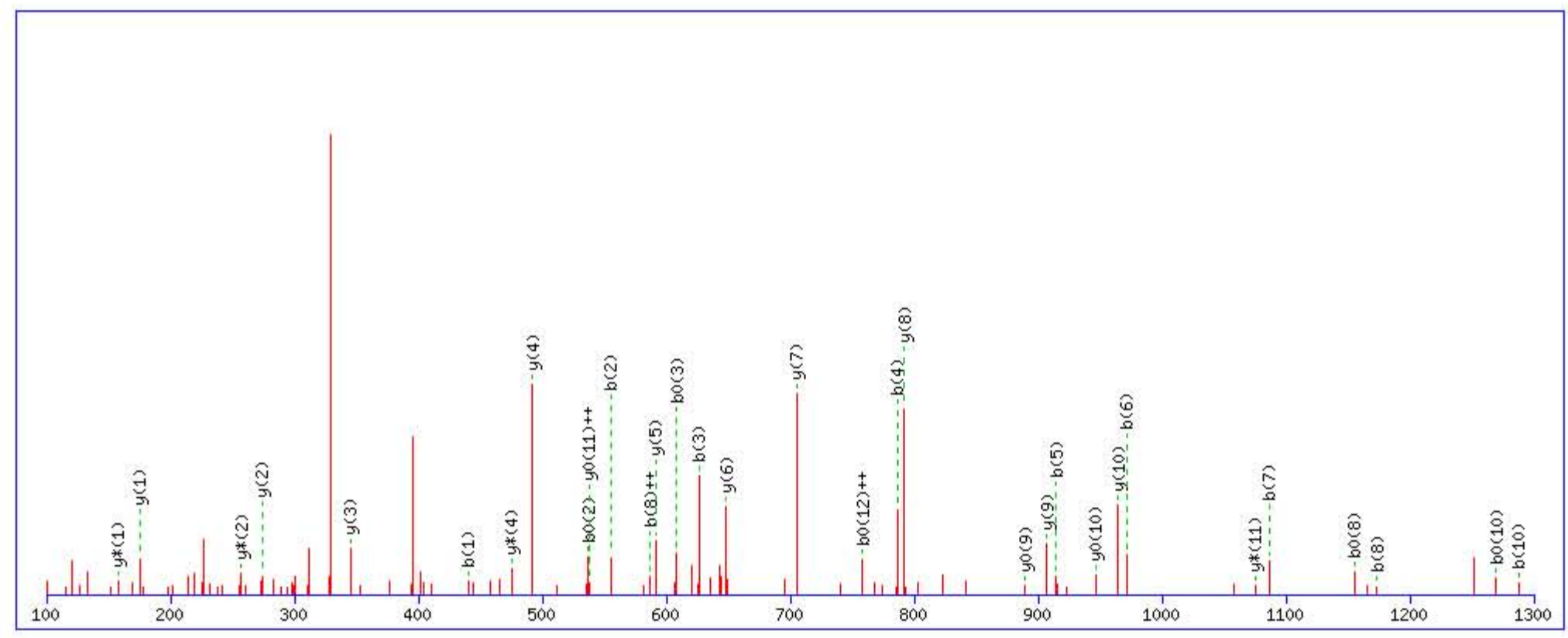
Title: Locus:1.1.1.3349.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 100 to 1300 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1876.856033

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

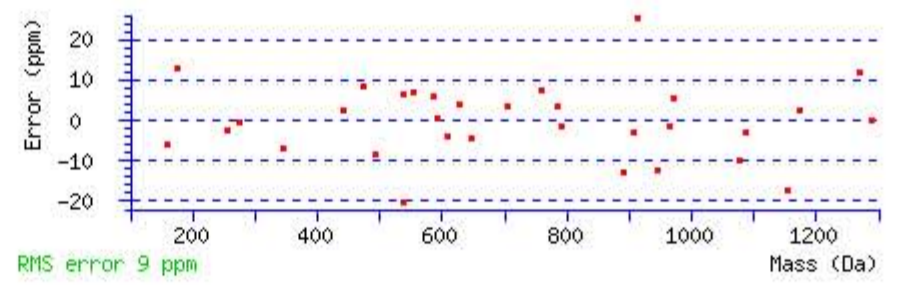
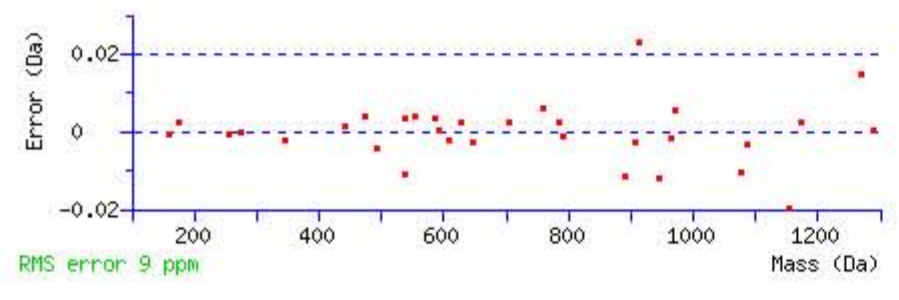
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 73 Expect: 4.4e-007

Matches : 32/152 fragment ions using 53 most intense peaks (help)

Table with 15 columns: #, b, b++, b+, b\*+, b0, b0++, Seq., y, y++, y+, y\*+, y0, y0++, #. It lists peptide fragments and their corresponding mass values and sequence tags.



NCBI BLAST search of QDACQGDSSGGVFAVR (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30) Other BLAST web gateways

**All matches to this query**

Table with 4 columns: Score, Mr(calc):, Delta, Sequence. It shows the top matches for the query.

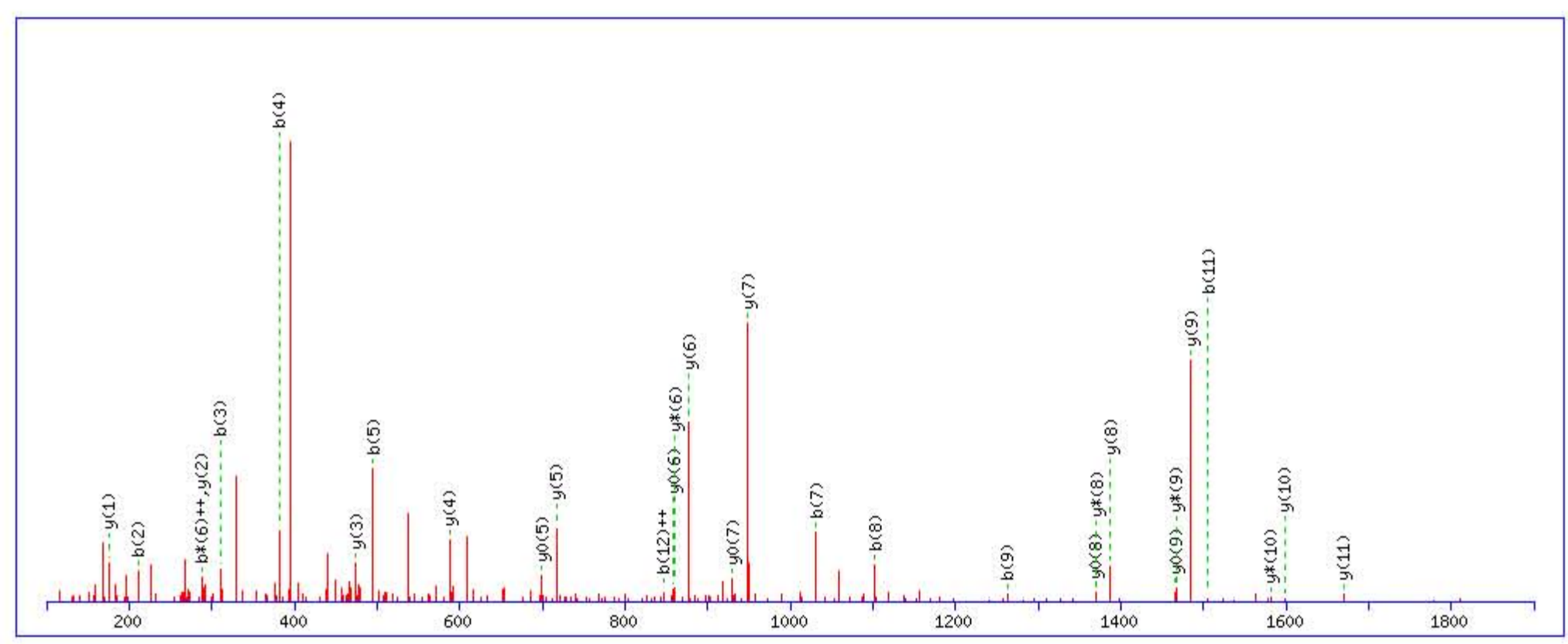
**MATRIX SCIENCE Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **LPVANPQACENWLR**  
 Found in **C1R\_HUMAN**, Complement C1r subcomponent OS=Homo sapiens GN=C1R PE=1 SV=2

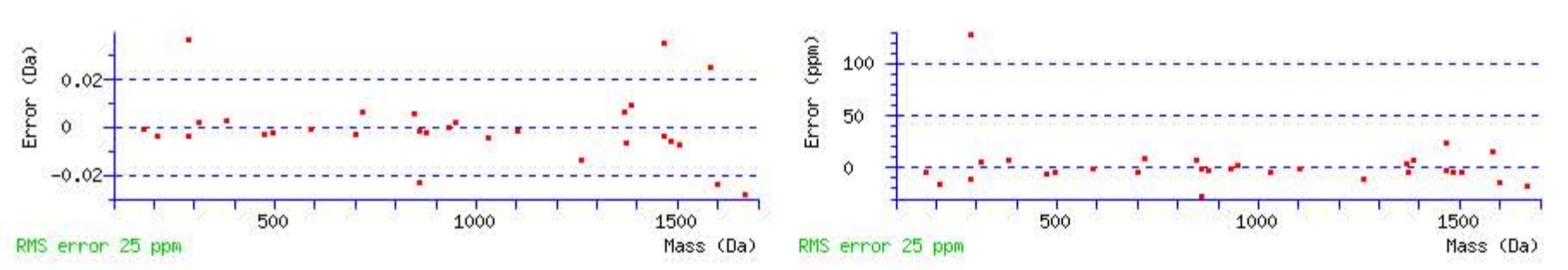
Match to Query 38926: 1977.986112 from(660.335980,3+) rtinseconds(2299) index(33607)  
 Title: Locus:1.1.1.3464.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1977.991684  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q7 : Biotin:Thermo-21345 (Q)  
 Ions Score: 53 Expect: 0.0001  
 Matches : 30/122 fragment ions using 63 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							14
2	<b>211.144104</b>	106.075690					P	1865.914921	933.461099	1848.888372	924.947824	1847.904356	924.455816	13
3	<b>310.212518</b>	155.609897					V	1768.862157	884.934717	1751.835608	876.421442	1750.851592	875.929434	12
4	<b>381.249632</b>	191.128454					A	<b>1669.793743</b>	835.400510	1652.767194	826.887235	1651.783178	826.395227	11
5	<b>495.292559</b>	248.149917	478.266010	239.636643			N	<b>1598.756629</b>	799.881953	<b>1581.730080</b>	791.368678	1580.746064	790.876670	10
6	592.345323	296.676300	575.318774	<b>288.163025</b>			P	<b>1484.713702</b>	742.860489	<b>1467.687153</b>	734.347215	<b>1466.703137</b>	733.855207	9
7	<b>1031.570649</b>	516.288963	1014.544100	507.775688			Q	<b>1387.660938</b>	694.334107	<b>1370.634389</b>	685.820833	<b>1369.650373</b>	685.328825	8
8	<b>1102.607763</b>	551.807520	1085.581214	543.294245			A	<b>948.435612</b>	474.721444	931.409063	466.208170	<b>930.425047</b>	465.716162	7
9	<b>1262.638412</b>	631.822844	1245.611863	623.309570			C	<b>877.398498</b>	439.202887	<b>860.371949</b>	430.689613	<b>859.387933</b>	430.197605	6
10	1391.681005	696.344141	1374.654456	687.830866	1373.670440	687.338858	E	<b>717.367849</b>	359.187563	700.341300	350.674288	<b>699.357284</b>	350.182280	5
11	<b>1505.723932</b>	753.365604	1488.697383	744.852330	1487.713367	744.360322	N	<b>588.325256</b>	294.666266	571.298707	286.152991			4
12	1691.803245	<b>846.405261</b>	1674.776696	837.891986	1673.792680	837.399978	W	<b>474.282329</b>	237.644802	457.255780	229.131528			3
13	1804.887309	902.947293	1787.860760	894.434018	1786.876744	893.942010	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
14							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LPVANPQACENWLR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
52.7	1977.991684	-0.005572	<a href="#">LPVANPQACENWLR</a>
10.0	1977.983856	0.002256	<a href="#">VLGKGGFGEVSACQMK</a>



# MASCOT Search Results

## Peptide View

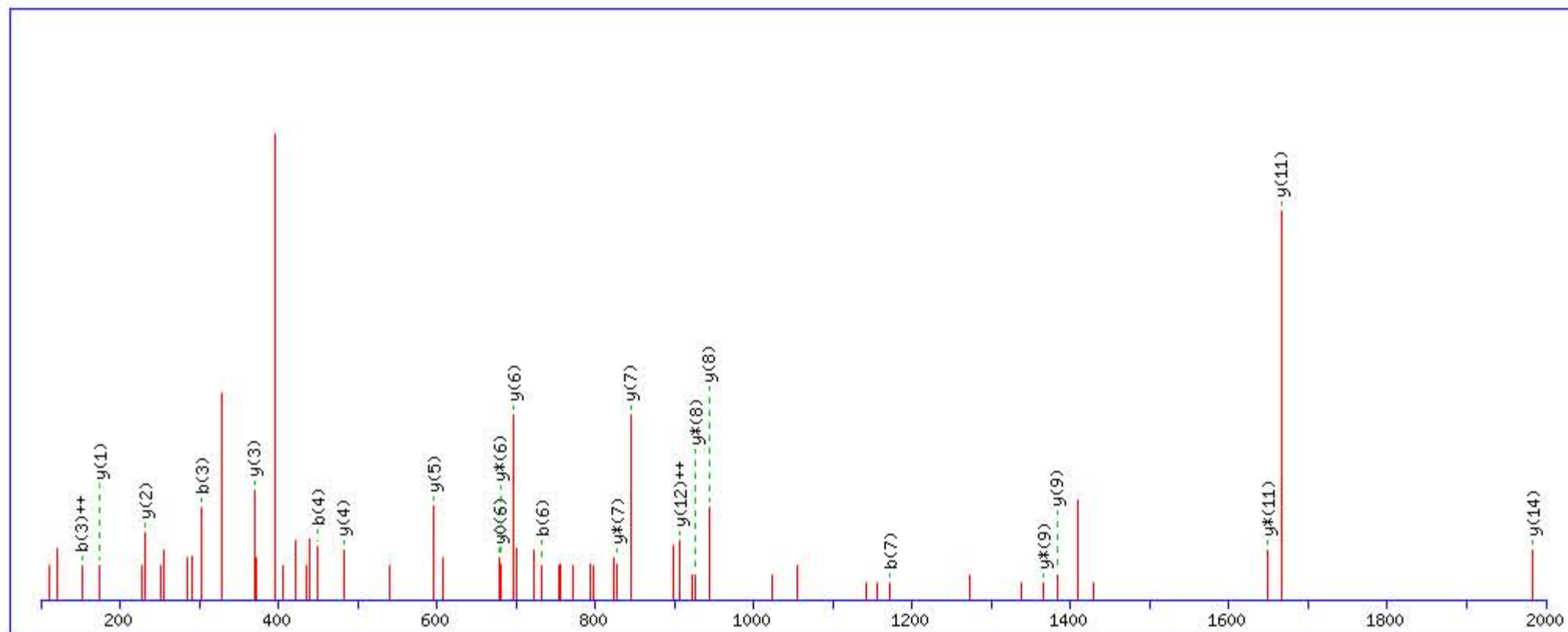
MS/MS Fragmentation of **MGNFPWQVFTNIHGR**  
Found in **C1R\_HUMAN**, Complement C1r subcomponent OS=Homo sapiens GN=C1R PE=1 SV=2

Match to Query 41797: 2114.043912 from(705.688580,3+) rtinseconds(2684) index(49929)  
Title: Locus:1.1.1.3646.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

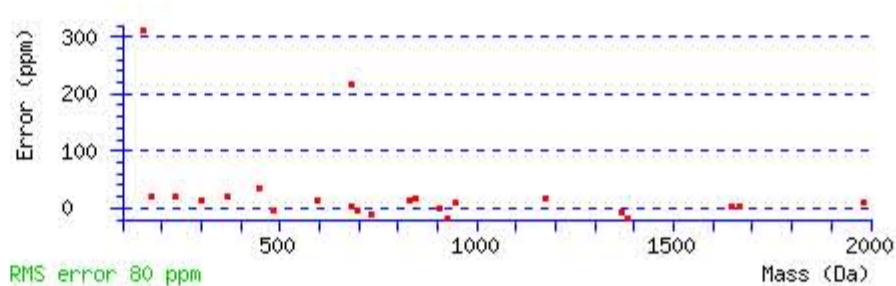
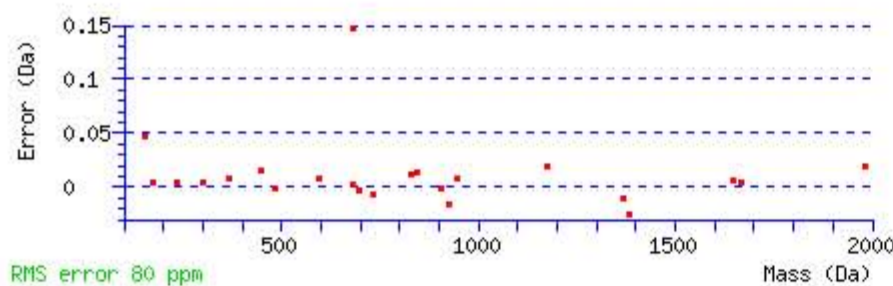
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2114.034256  
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
Variable modifications:  
Q7 : Biotin:Thermo-21345 (Q)  
Ions Score: 46 Expect: 0.00063  
Matches : 23/136 fragment ions using 56 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							15
2	189.069225	95.038250					G	<b>1984.001034</b>	992.504155	1966.974485	983.990881	1965.990469	983.498873	14
3	<b>303.112152</b>	<b>152.059714</b>	286.085603	143.546439			N	1926.979570	963.993423	1909.953021	955.480149	1908.969005	954.988141	13
4	<b>450.180566</b>	225.593921	433.154017	217.080646			F	1812.936643	<b>906.971960</b>	1795.910094	898.458685	1794.926078	897.966677	12
5	547.233330	274.120303	530.206781	265.607029			P	<b>1665.868229</b>	833.437753	<b>1648.841680</b>	824.924478	1647.857664	824.432470	11
6	<b>733.312643</b>	367.159960	716.286094	358.646685			W	1568.815465	784.911371	1551.788916	776.398096	1550.804900	775.906088	10
7	<b>1172.537969</b>	586.772623	1155.511420	578.259348			Q	<b>1382.736152</b>	691.871714	<b>1365.709603</b>	683.358440	1364.725587	682.866432	9
8	1271.606383	636.306830	1254.579834	627.793555			V	<b>943.510826</b>	472.259051	<b>926.484277</b>	463.745777	925.500261	463.253769	8
9	1418.674797	709.841037	1401.648248	701.327762			F	<b>844.442412</b>	422.724844	<b>827.415863</b>	414.211570	826.431847	413.719562	7
10	1519.722476	760.364876	1502.695927	751.851602	1501.711911	751.359594	T	<b>697.373998</b>	349.190637	<b>680.347449</b>	340.677363	<b>679.363433</b>	340.185355	6
11	1633.765403	817.386340	1616.738854	808.873065	1615.754838	808.381057	N	<b>596.326319</b>	298.666798	579.299770	290.153523			5
12	1746.849467	873.928372	1729.822918	865.415097	1728.838902	864.923089	I	<b>482.283392</b>	241.645334	465.256843	233.132059			4
13	1883.908379	942.457828	1866.881830	933.944553	1865.897814	933.452545	H	<b>369.199328</b>	185.103302	352.172779	176.590028			3
14	1940.929843	970.968559	1923.903294	962.455285	1922.919278	961.963277	G	<b>232.140416</b>	116.573846	215.113867	108.060572			2
15							R	<b>175.118952</b>	88.063114	158.092403	79.549840			1



NCBI BLAST search of **MGNFPWQVFTNIHGR**  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
46.1	2114.034256	0.009656	<a href="#">MGNFPWQVFTNIHGR</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **MDVFSQNMFCAGHPSLK**

Found in **C1R\_HUMAN**, Complement C1r subcomponent OS=Homo sapiens GN=C1R PE=1 SV=2

Match to Query 44709: 2279.034012 from(760.685280,3+) rtinseconds(2379) index(33962)

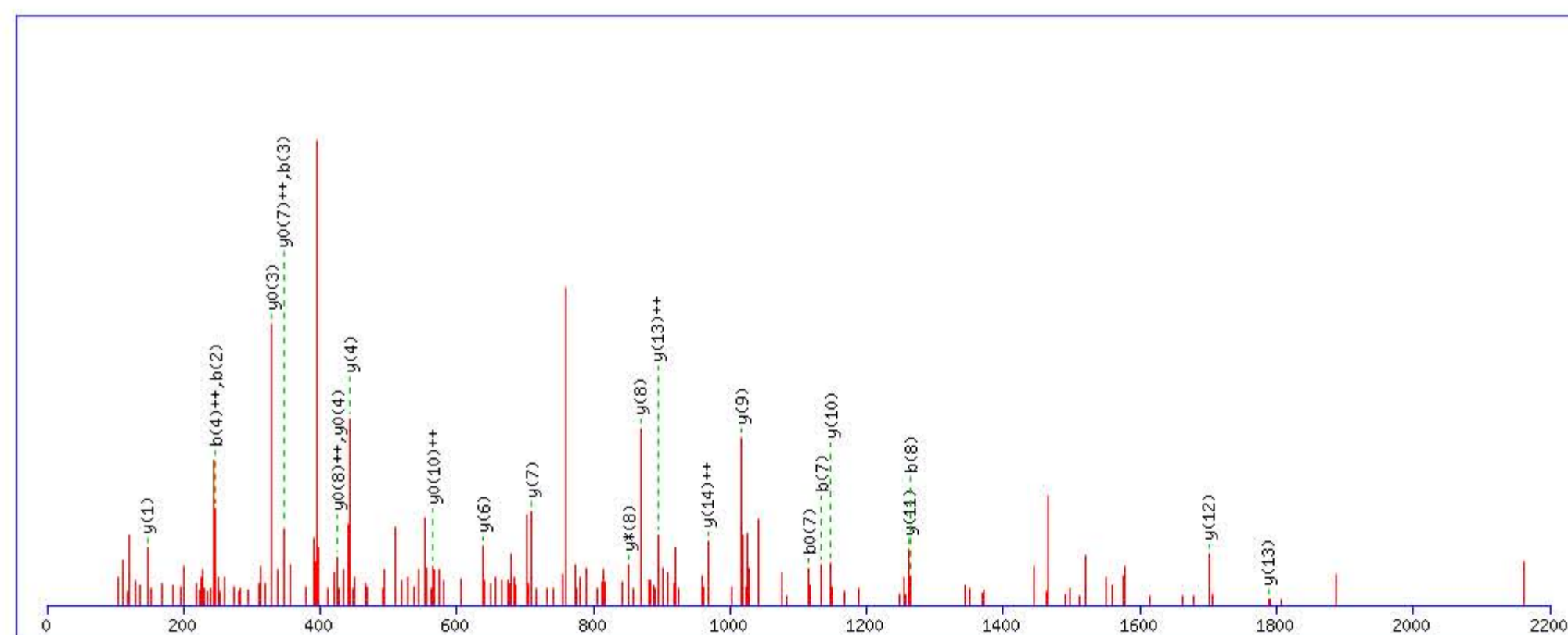
Title: Locus:1.1.1.3492.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2279.035965

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

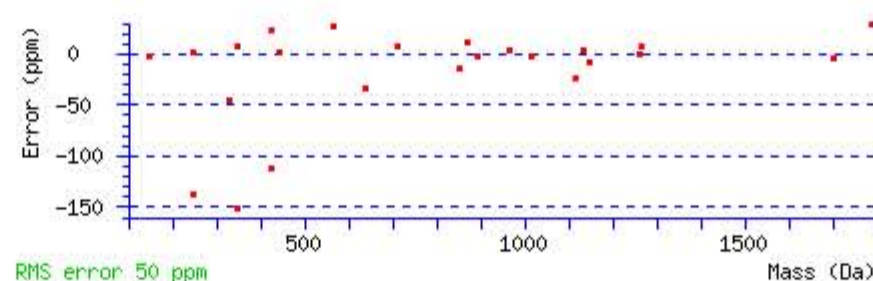
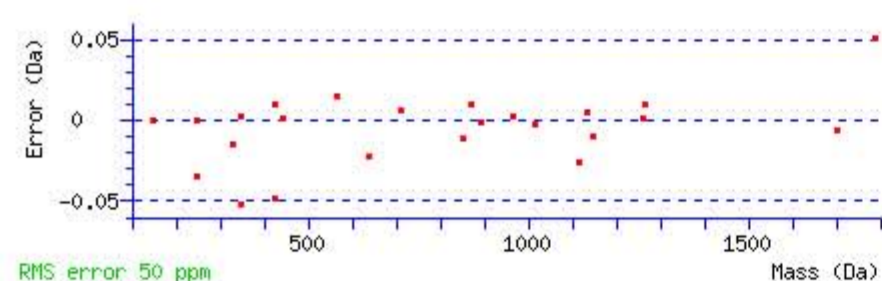
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 37 Expect: 0.0006

Matches : 24/176 fragment ions using 54 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					<b>M</b>							17
2	<b>247.074704</b>	124.040990			229.064139	115.035708	<b>D</b>	2149.002750	1075.005013	2131.976201	1066.491738	2130.992185	1065.999730	16
3	<b>346.143118</b>	173.575197			328.132553	164.569915	<b>V</b>	2033.975807	1017.491542	2016.949258	1008.978267	2015.965242	1008.486259	15
4	493.211532	<b>247.109404</b>			475.200967	238.104121	<b>F</b>	1934.907393	<b>967.957335</b>	1917.880844	959.444060	1916.896828	958.952052	14
5	580.243560	290.625418			562.232995	281.620136	<b>S</b>	<b>1787.838979</b>	<b>894.423128</b>	1770.812430	885.909853	1769.828414	885.417845	13
6	1019.468886	510.238081	1002.442337	501.724807	1001.458321	501.232799	<b>Q</b>	<b>1700.806951</b>	850.907114	1683.780402	842.393839	1682.796386	841.901831	12
7	<b>1133.511813</b>	567.259545	1116.485264	558.746270	<b>1115.501248</b>	558.254262	<b>N</b>	<b>1261.581625</b>	631.294451	1244.555076	622.781176	1243.571060	622.289168	11
8	<b>1264.552298</b>	632.779787	1247.525749	624.266513	1246.541733	623.774505	<b>M</b>	<b>1147.538698</b>	574.272987	1130.512149	565.759713	1129.528133	<b>565.267705</b>	10
9	1411.620712	706.313994	1394.594163	697.800720	1393.610147	697.308712	<b>F</b>	<b>1016.498213</b>	508.752745	999.471664	500.239470	998.487648	499.747462	9
10	1571.651361	786.329319	1554.624812	777.816044	1553.640796	777.324036	<b>C</b>	<b>869.429799</b>	435.218538	<b>852.403250</b>	426.705263	851.419234	<b>426.213255</b>	8
11	1642.688475	821.847876	1625.661926	813.334601	1624.677910	812.842593	<b>A</b>	<b>709.399150</b>	355.203213	692.372601	346.689939	691.388585	<b>346.197931</b>	7
12	1699.709939	850.358608	1682.683390	841.845333	1681.699374	841.353325	<b>G</b>	<b>638.362036</b>	319.684656	621.335487	311.171382	620.351471	310.679374	6
13	1836.768851	918.888064	1819.742302	910.374789	1818.758286	909.882781	<b>H</b>	581.340572	291.173924	564.314023	282.660650	563.330007	282.168642	5
14	1933.821615	967.414446	1916.795066	958.901171	1915.811050	958.409163	<b>P</b>	<b>444.281660</b>	222.644468	427.255111	214.131194	<b>426.271095</b>	213.639186	4
15	2020.853643	1010.930460	2003.827094	1002.417185	2002.843078	1001.925177	<b>S</b>	347.228896	174.118086	330.202347	165.604812	<b>329.218331</b>	165.112804	3
16	2133.937707	1067.472491	2116.911158	1058.959217	2115.927142	1058.467209	<b>L</b>	260.196868	130.602072	243.170319	122.088798			2
17							<b>K</b>	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **MDVFSQNMFCAGHPSLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
36.7	2279.035965	-0.001953	<a href="#">MDVFSQNMFCAGHPSLK</a>
2.3	2279.029694	0.004318	<a href="#">DMLMEGTEEVEAELPDSRTK</a>



**MASCOT** **SCIENCE** Mascot Search Results

Peptide View

MS/MS Fragmentation of **EACNAWLQK**

Found in **C1RL\_HUMAN**, Complement C1r subcomponent-like protein OS=Homo sapiens GN=C1RL PE=1 SV=2

Match to Query 25283: 1429.684808 from(715.849680,2+) rtinseconds(1973) index(60451)

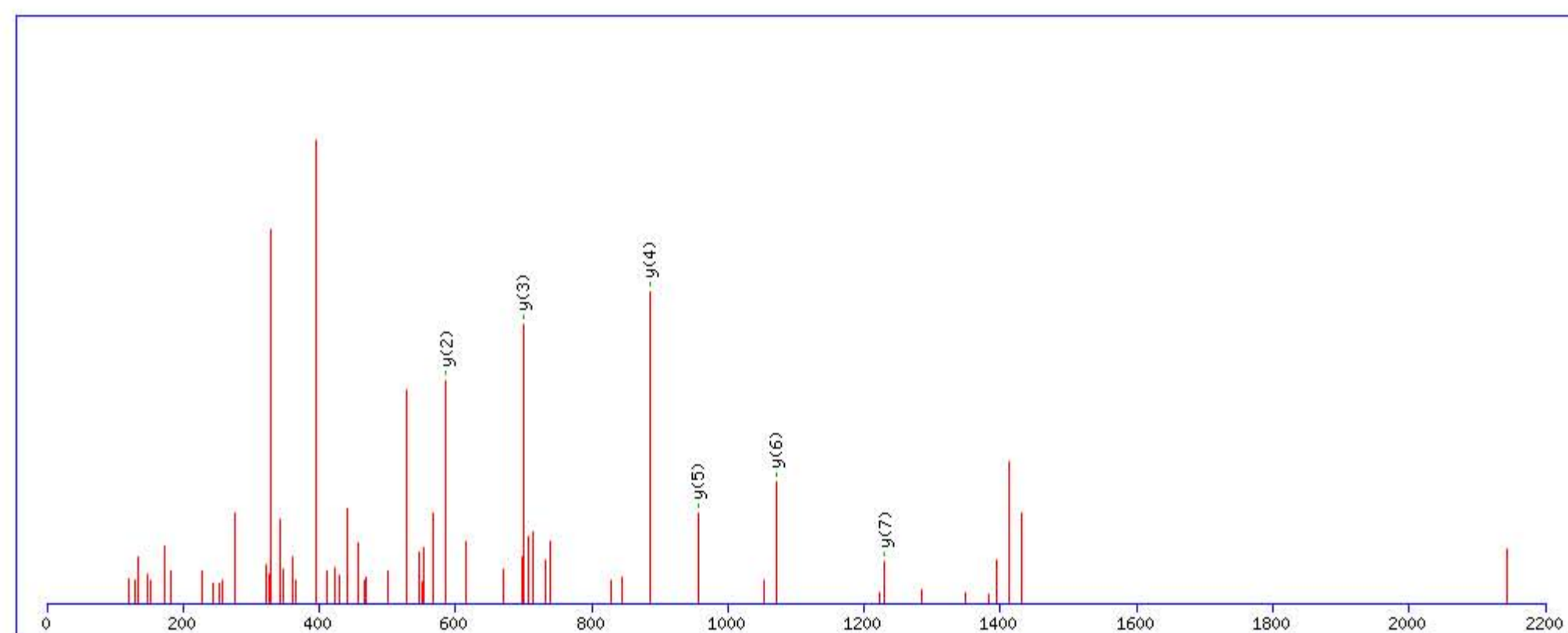
Title: Locus:1.1.1.1598.21 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1429.684601

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

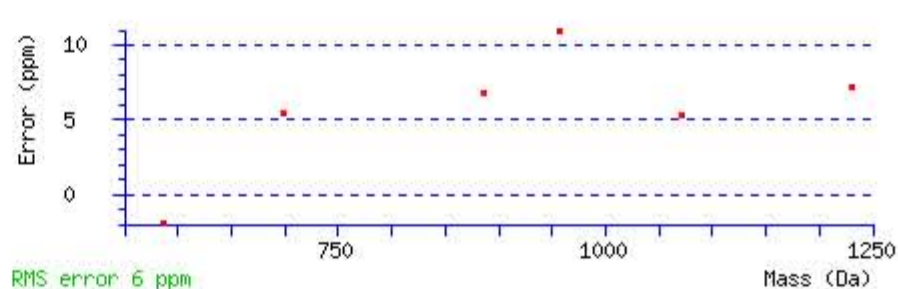
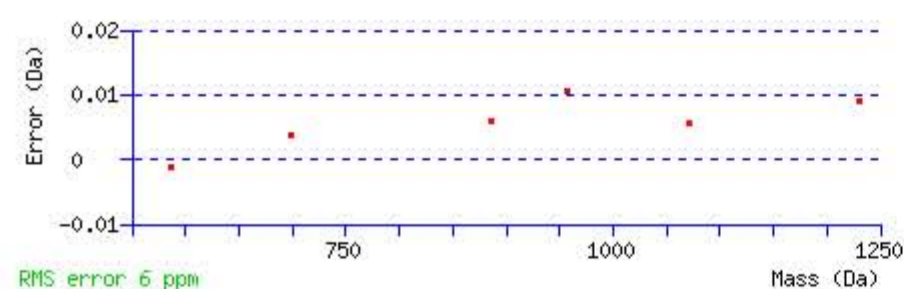
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 38 Expect: 0.003

Matches : 6/74 fragment ions using 12 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E					9
2	201.086983	101.047130			183.076418	92.041847	A	1301.649311	651.328293	1284.622762	642.815019	8
3	361.117632	181.062454			343.107067	172.057172	C	<b>1230.612197</b>	615.809736	1213.585648	607.296462	7
4	475.160559	238.083918	458.134010	229.570643	457.149994	229.078635	N	<b>1070.581548</b>	535.794412	1053.554999	527.281138	6
5	546.197673	273.602475	529.171124	265.089200	528.187108	264.597192	A	<b>956.538621</b>	478.772948	939.512072	470.259674	5
6	732.276986	366.642131	715.250437	358.128857	714.266421	357.636849	W	<b>885.501507</b>	443.254392	868.474958	434.741117	4
7	845.361050	423.184163	828.334501	414.670889	827.350485	414.178881	L	<b>699.422194</b>	350.214735	682.395645	341.701461	3
8	1284.586376	642.796826	1267.559827	634.283552	1266.575811	633.791543	Q	<b>586.338130</b>	293.672703	569.311581	285.159428	2
9							K	147.112804	74.060040	130.086255	65.546765	1



NCBI BLAST search of [EACNAWLQK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
38.0	1429.684601	0.000207	<a href="#">EACNAWLQK</a>
14.6	1429.680588	0.004220	<a href="#">MRIHCLENVDK</a>
13.6	1429.687988	-0.003180	<a href="#">CNTPAMGLQK</a>
9.4	1429.679886	0.004922	<a href="#">MDDKELIEYFK</a>
8.5	1429.666016	0.018792	<a href="#">NHGGYVDVMPVVK</a>
7.9	1429.702362	-0.017554	<a href="#">LSNWESQVK</a>
7.6	1429.687103	-0.002295	<a href="#">QSEADNNTLK</a>
6.8	1429.687119	-0.002311	<a href="#">EQHQTMDSLTK</a>
6.5	1429.705734	-0.020926	<a href="#">QEMNTLQVK</a>
6.5	1429.705719	-0.020911	<a href="#">EANALAMQVK</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **TMQENSTPR**

Found in **C1S\_HUMAN**, Complement C1s subcomponent OS=Homo sapiens GN=C1S PE=1 SV=1

Match to Query 22757: 1373.637288 from(687.825920,2+) rtinseconds(1403) index(28254)

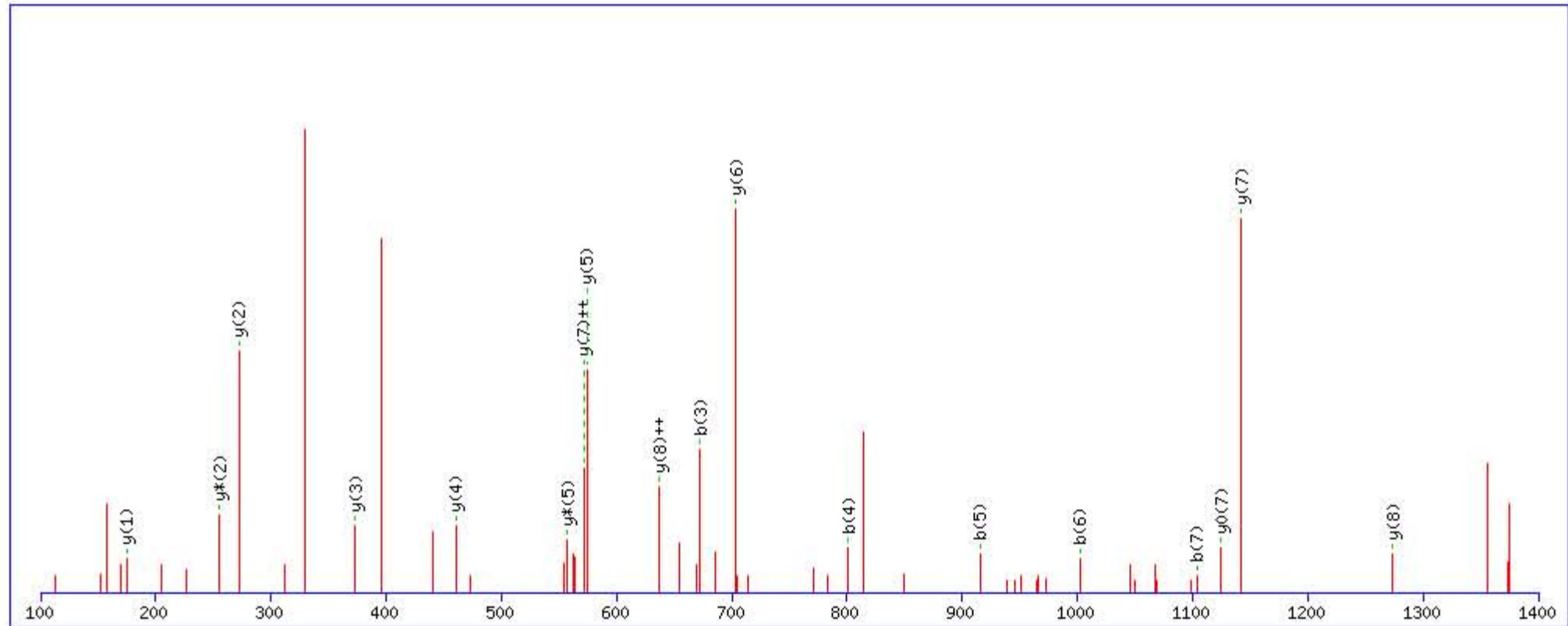
Title: Locus:1.1.1.3151.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1373.643143

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

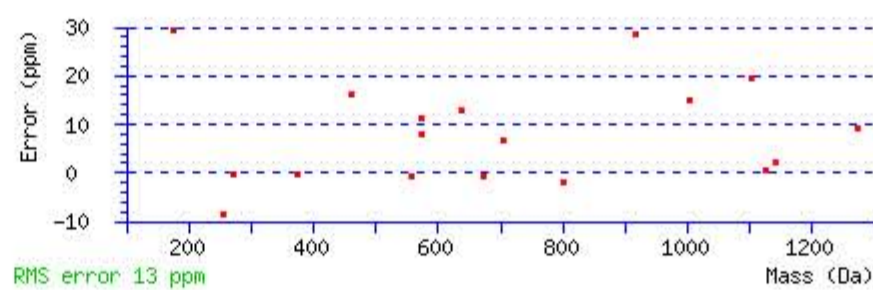
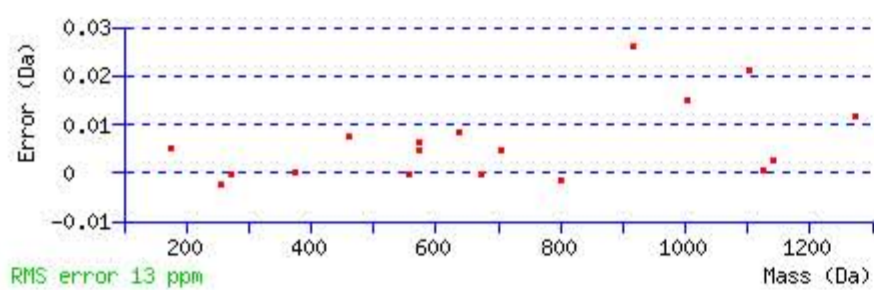
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 51 Expect: 7.8e-005

Matches : 18/88 fragment ions using 33 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							9
2	233.095440	117.051358			215.084875	108.046076	M	1273.602754	637.305015	1256.576205	628.791741	1255.592189	628.299733	8
3	672.320766	336.664021	655.294217	328.150747	654.310201	327.658739	Q	1142.562269	571.784773	1125.535720	563.271498	1124.551704	562.779490	7
4	801.363359	401.185318	784.336810	392.672043	783.352794	392.180035	E	703.336943	352.172110	686.310394	343.658835	685.326378	343.166827	6
5	915.406286	458.206781	898.379737	449.693507	897.395721	449.201499	N	574.294350	287.650813	557.267801	279.137539	556.283785	278.645531	5
6	1002.438314	501.722795	985.411765	493.209521	984.427749	492.717513	S	460.251423	230.629349	443.224874	222.116075	442.240858	221.624067	4
7	1103.485993	552.246635	1086.459444	543.733360	1085.475428	543.241352	T	373.219395	187.113335	356.192846	178.600061	355.208830	178.108053	3
8	1200.538757	600.773017	1183.512208	592.259742	1182.528192	591.767734	P	272.171716	136.589496	255.145167	128.076221			2
9							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [TMQENSTPR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
51.3	1373.643143	-0.005855	<a href="#">TMQENSTPR</a>
11.8	1373.635742	0.001546	<a href="#">DRGMPSDSPEKR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EPTMYVGSTSVQTSR**

Found in **C1S\_HUMAN**, Complement C1s subcomponent OS=Homo sapiens GN=C1S PE=1 SV=1

Match to Query 38390: 1952.927052 from(651.982960,3+) rtinseconds(1913) index(45339)

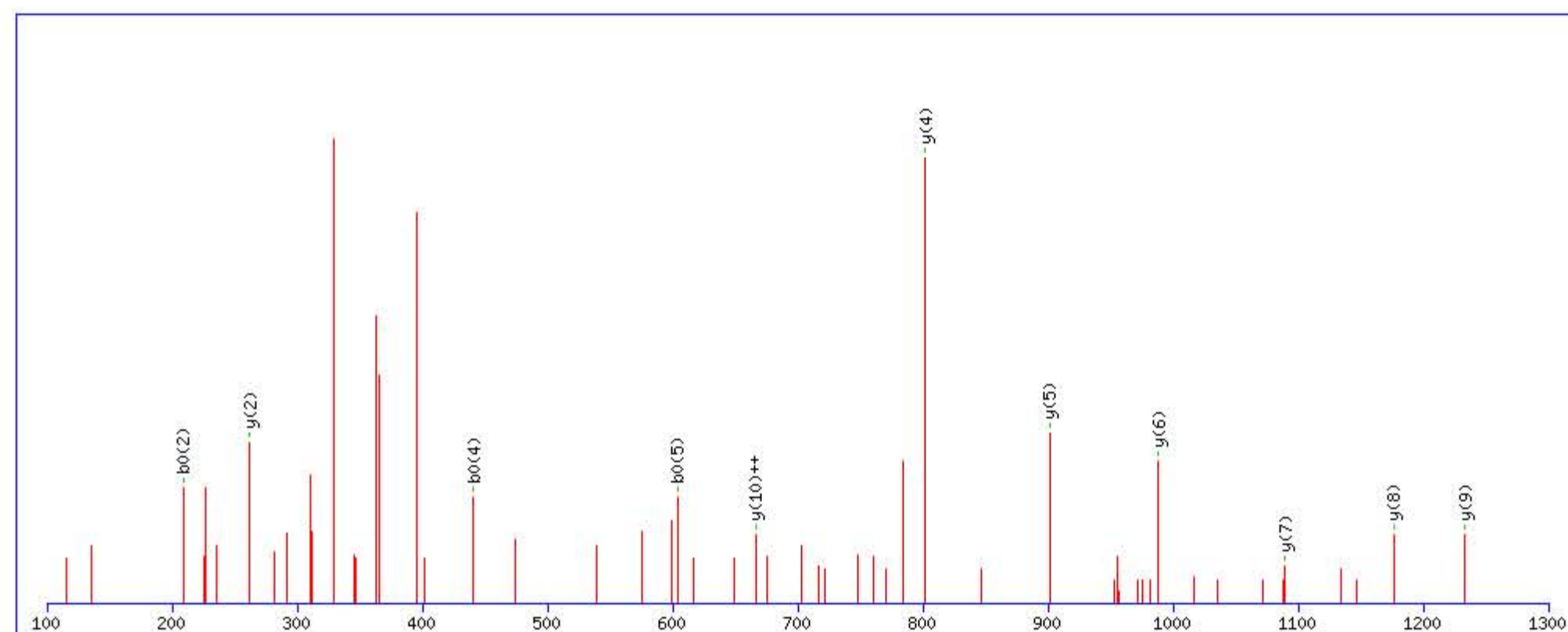
Title: Locus:1.1.1.3379.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1952.933594

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

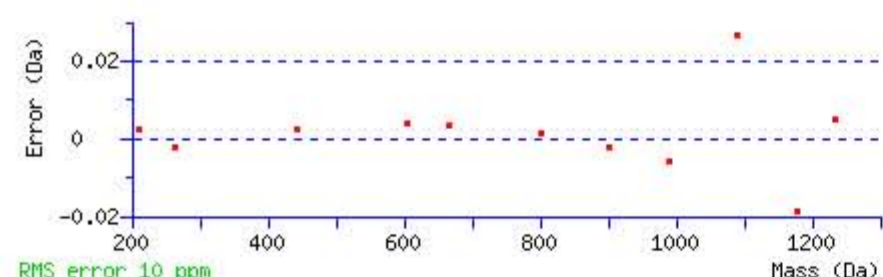
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

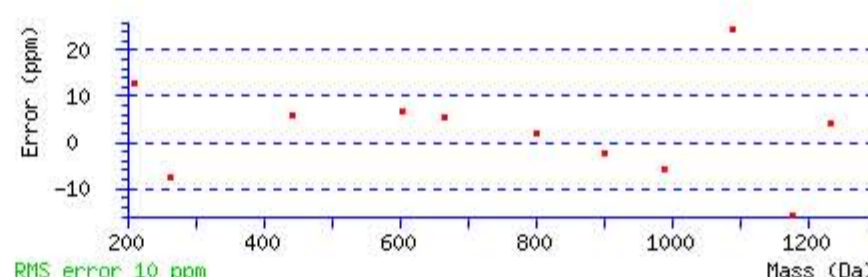
Ions Score: 47 Expect: 0.00023

Matches : 11/144 fragment ions using 12 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							15
2	227.102633	114.054954			209.092068	105.049672	P	1824.898269	912.952773	1807.871720	904.439498	1806.887704	903.947490	14
3	328.150312	164.578794			310.139747	155.573512	T	1727.845505	864.426391	1710.818956	855.913116	1709.834940	855.421108	13
4	459.190797	230.099036			441.180232	221.093754	M	1626.797826	813.902551	1609.771277	805.389277	1608.787261	804.897269	12
5	622.254126	311.630701			604.243561	302.625419	Y	1495.757341	748.382309	1478.730792	739.869034	1477.746776	739.377026	11
6	721.322540	361.164908			703.311975	352.159626	V	1332.694012	666.850644	1315.667463	658.337370	1314.683447	657.845362	10
7	778.344004	389.675640			760.333439	380.670358	G	1233.625598	617.316437	1216.599049	608.803163	1215.615033	608.311155	9
8	865.376032	433.191654			847.365467	424.186372	S	1176.604134	588.805705	1159.577585	580.292431	1158.593569	579.800423	8
9	966.423711	483.715494			948.413146	474.710211	T	1089.572106	545.289691	1072.545557	536.776417	1071.561541	536.284409	7
10	1053.455739	527.231508			1035.445174	518.226225	S	988.524427	494.765852	971.497878	486.252577	970.513862	485.760569	6
11	1152.524153	576.765715			1134.513588	567.760432	V	901.492399	451.249838	884.465850	442.736563	883.481834	442.244555	5
12	1591.749479	796.378378	1574.722930	787.865103	1573.738914	787.373095	Q	802.423985	401.715631	785.397436	393.202356	784.413420	392.710348	4
13	1692.797158	846.902217	1675.770609	838.388943	1674.786593	837.896935	T	363.198659	182.102968	346.172110	173.589693	345.188094	173.097685	3
14	1779.829186	890.418231	1762.802637	881.904957	1761.818621	881.412949	S	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	2
15							R	175.118952	88.063114	158.092403	79.549839			1



RMS error 10 ppm



RMS error 10 ppm

NCBI BLAST search of [EPTMYVGSTSVQTSR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
46.9	1952.933594	-0.006542	<a href="#">EPTMYVGSTSVQTSR</a>
8.0	1952.944794	-0.017742	<a href="#">MNQVTSKYANQSAGK</a>

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

**MASCOT** SCIENCE **Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **SNALDIIFQTDLTGQK**

Found in **C1S\_HUMAN**, Complement C1s subcomponent OS=Homo sapiens GN=C1S PE=1 SV=1

Match to Query 41241: 2074.072122 from(692.364650,3+) rtinseconds(2875) index(37159)

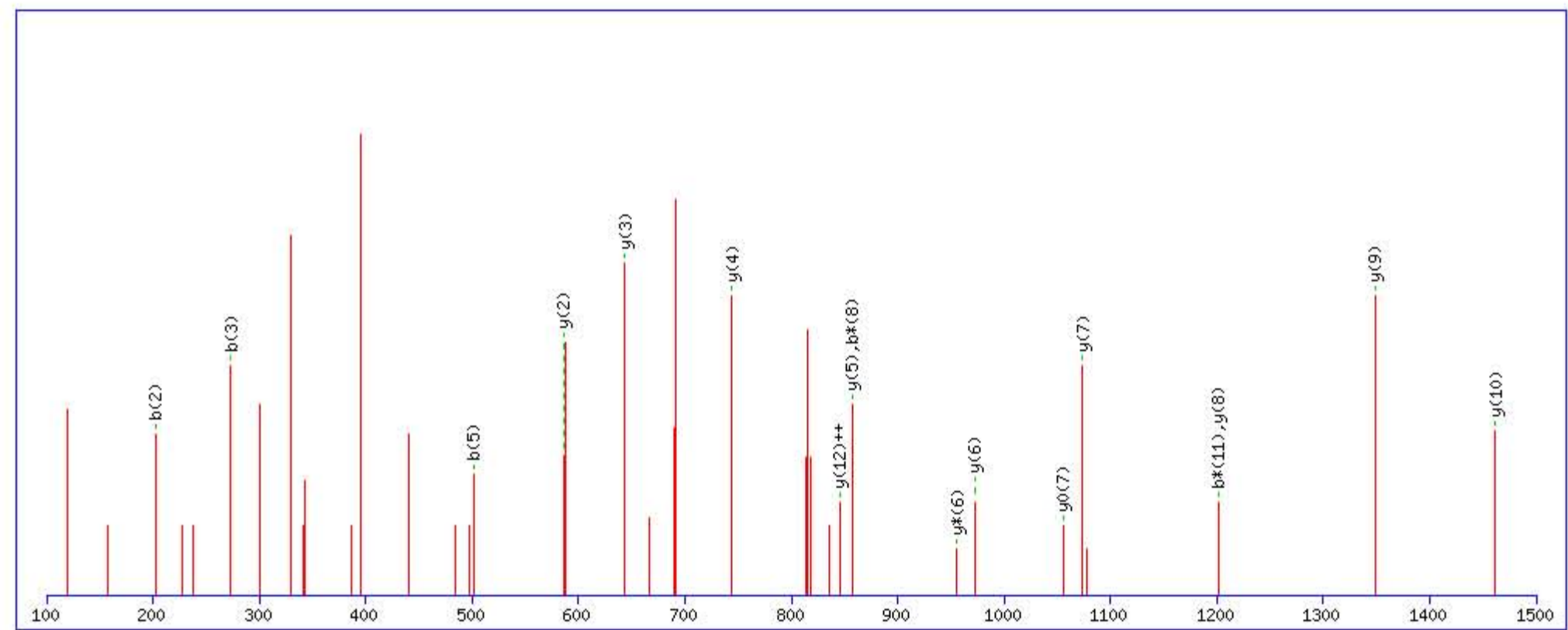
Title: Locus:1.1.1.3663.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2074.076874

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

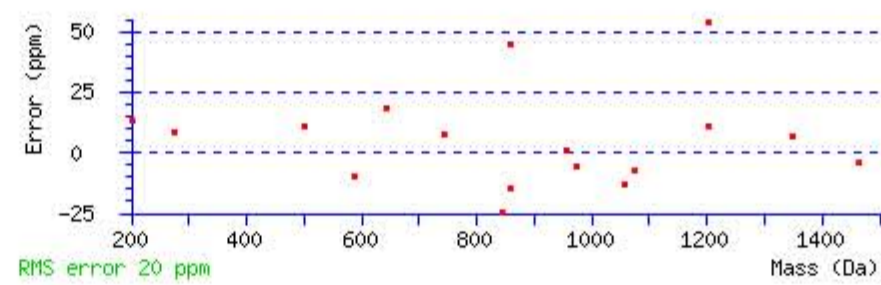
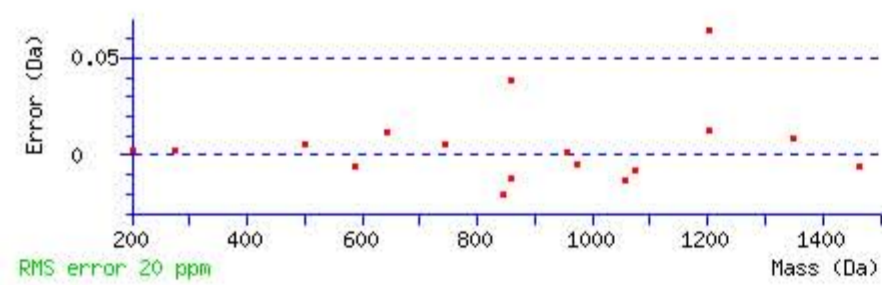
Variable modifications:

Q15 : Biotin:Thermo-21345 (Q)

Ions Score: 58 Expect: 4.2e-005

Matches : 17/172 fragment ions using 23 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							16
2	202.082231	101.544753	185.055682	93.031479	184.071666	92.539471	N	1988.052127	994.529702	1971.025578	986.016427	1970.041562	985.524419	15
3	273.119345	137.063311	256.092796	128.550036	255.108780	128.058028	A	1874.009200	937.508238	1856.982651	928.994964	1855.998635	928.502956	14
4	386.203409	193.605343	369.176860	185.092068	368.192844	184.600060	L	1802.972086	901.989681	1785.945537	893.476407	1784.961521	892.984399	13
5	501.230352	251.118814	484.203803	242.605540	483.219787	242.113532	D	1689.888022	845.447649	1672.861473	836.934375	1671.877457	836.442367	12
6	614.314416	307.660846	597.287867	299.147572	596.303851	298.655564	I	1574.861079	787.934178	1557.834530	779.420903	1556.850514	778.928895	11
7	727.398480	364.202878	710.371931	355.689604	709.387915	355.197596	I	1461.777015	731.392146	1444.750466	722.878871	1443.766450	722.386863	10
8	874.466894	437.737085	857.440345	429.223811	856.456329	428.731803	F	1348.692951	674.850114	1331.666402	666.336839	1330.682386	665.844831	9
9	1002.525472	501.766374	985.498923	493.253100	984.514907	492.761092	Q	1201.624537	601.315907	1184.597988	592.802632	1183.613972	592.310624	8
10	1103.573151	552.290214	1086.546602	543.776939	1085.562586	543.284931	T	1073.565959	537.286618	1056.539410	528.773343	1055.555394	528.281335	7
11	1218.600094	609.803685	1201.573545	601.290411	1200.589529	600.798403	D	972.518280	486.762778	955.491731	478.249504	954.507715	477.757496	6
12	1331.684158	666.345717	1314.657609	657.832443	1313.673593	657.340435	L	857.491337	429.249307	840.464788	420.736032	839.480772	420.244024	5
13	1432.731837	716.869557	1415.705288	708.356282	1414.721272	707.864274	T	744.407273	372.707275	727.380724	364.194000	726.396708	363.701992	4
14	1489.753301	745.380289	1472.726752	736.867014	1471.742736	736.375006	G	643.359594	322.183435	626.333045	313.670161			3
15	1928.978627	964.992952	1911.952078	956.479677	1910.968062	955.987669	Q	586.338130	293.672703	569.311581	285.159429			2
16							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **SNALDIIFQTDLTGQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
58.1	2074.076874	-0.004752	<a href="#">SNALDIIFQTDLTGQK</a>
10.0	2074.076874	-0.004752	<a href="#">SNALDIIFQTDLTGQK</a>

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

**Peptide View**

MS/MS Fragmentation of **SSNNPHSPIVEEFQVPYNK**

Found in **C1S\_HUMAN**, Complement C1s subcomponent OS=Homo sapiens GN=C1S PE=1 SV=1

Match to Query 48467: 2496.209532 from(833.077120,3+) rtinseconds(2136) index(32653)

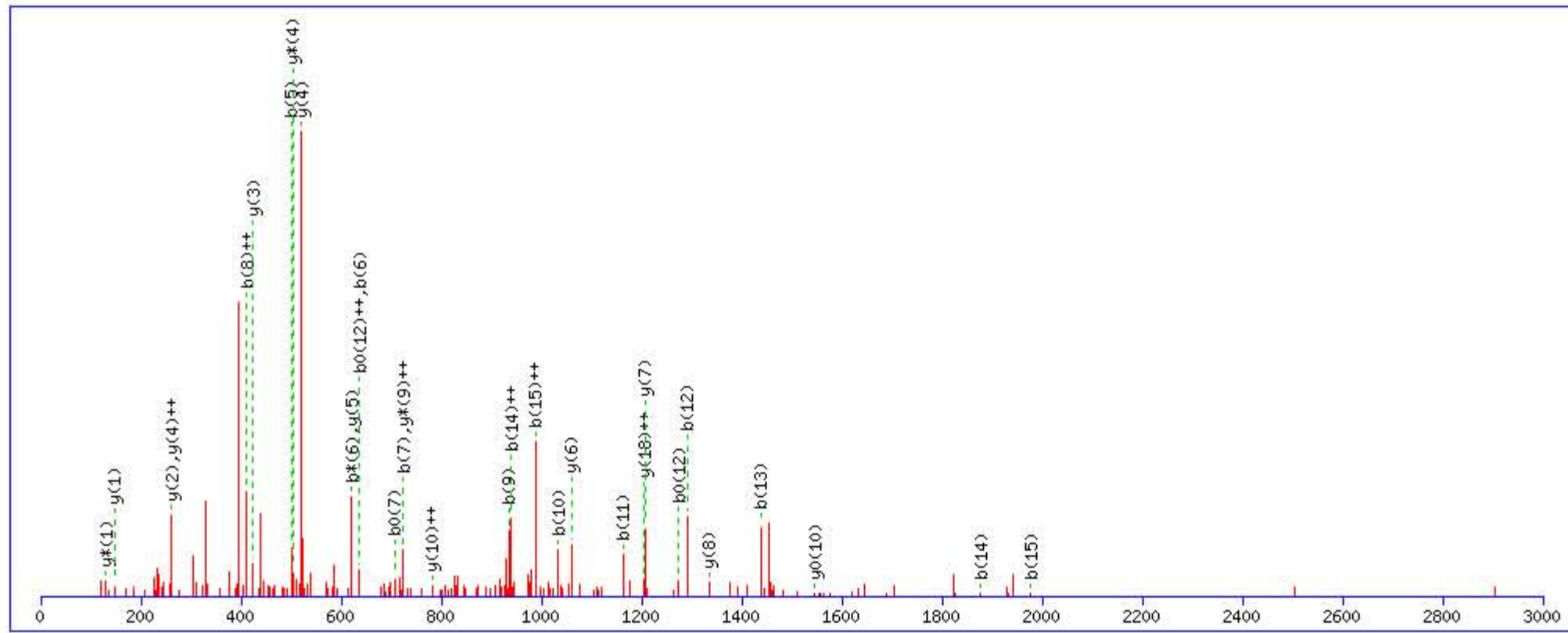
Title: Locus:1.1.1.3407.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 0 to 3000 Da Full range

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2496.210724

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

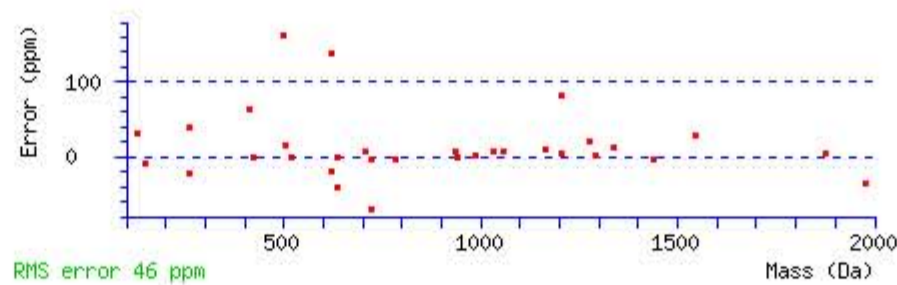
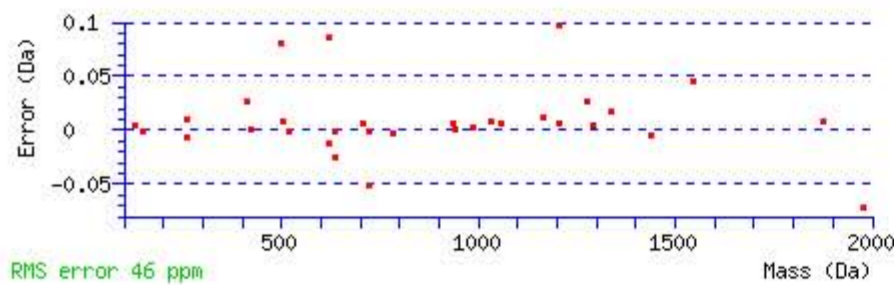
Variable modifications:

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 36 Expect: 0.00048

Matches : 32/198 fragment ions using 70 most intense peaks (help)

Table with 15 columns: #, b, b++, b+, b+\*\*, b0, b0\*\*, Seq., y, y\*\*, y+, y+\*\*, y0, y0\*\*, #. It lists various peptide fragments and their corresponding mass values and sequence types.



NCBI BLAST search of SSNNPHSPIVEEFQVPYNK (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30) Other BLAST web gateways

All matches to this query

Table with 4 columns: Score, Mr(calc), Delta, Sequence. It shows the top two matches for the query.

## Peptide View

MS/MS Fragmentation of **SSGQWQTPGATR**

Found in **CO2\_HUMAN**, Complement C2 OS=Homo sapiens GN=C2 PE=1 SV=2

Match to Query 29966: 1585.771128 from(793.892840,2+) rtinseconds(1731) index(59086)

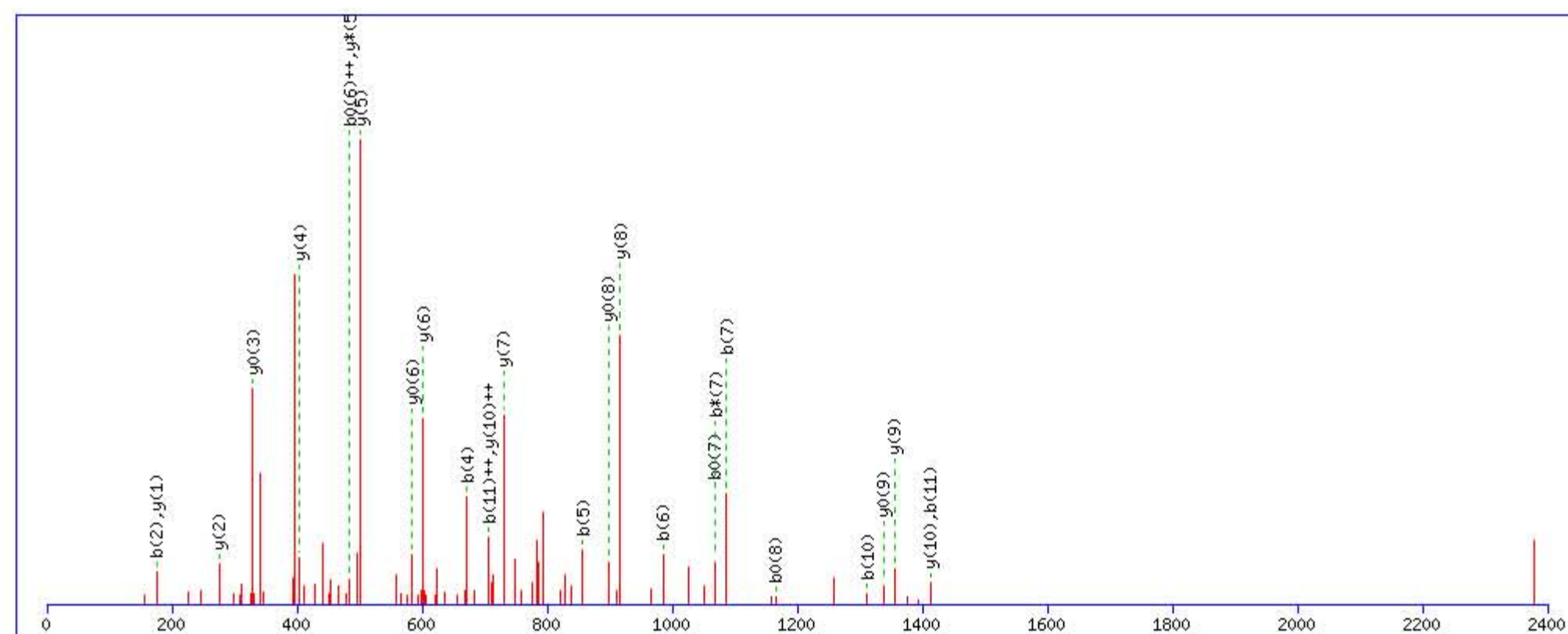
Title: Locus:1.1.1.1514.11 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 0 to 2400 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1585.767120

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

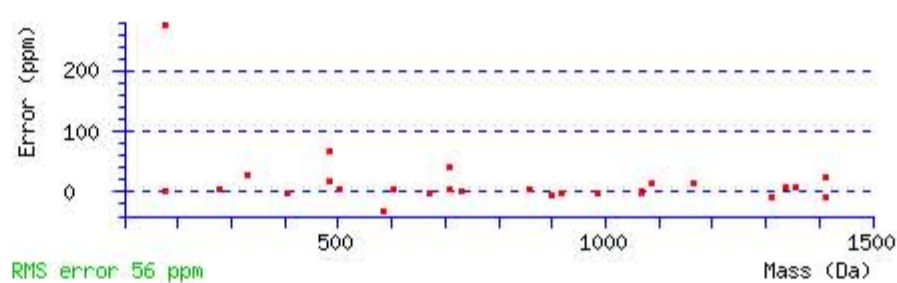
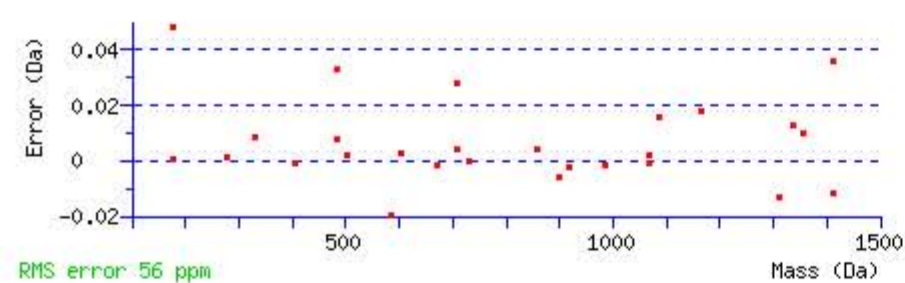
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 60 Expect: 1e-005

Matches : 27/124 fragment ions using 38 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							12
2	<b>175.071332</b>	88.039304			157.060767	79.034021	S	1499.742361	750.374818	1482.715812	741.861544	1481.731796	741.369536	11
3	232.092796	116.550036			214.082231	107.544753	G	<b>1412.710333</b>	<b>706.858805</b>	1395.683784	698.345530	1394.699768	697.853522	10
4	<b>671.318122</b>	336.162699	654.291573	327.649425	653.307557	327.157417	Q	<b>1355.688869</b>	678.348072	1338.662320	669.834798	<b>1337.678304</b>	669.342790	9
5	<b>857.397435</b>	429.202356	840.370886	420.689081	839.386870	420.197073	W	<b>916.463543</b>	458.735410	899.436994	450.222135	<b>898.452978</b>	449.730127	8
6	<b>985.456013</b>	493.231645	968.429464	484.718370	967.445448	484.226362	Q	<b>730.384230</b>	365.695753	713.357681	357.182478	712.373665	356.690470	7
7	<b>1086.503692</b>	543.755484	<b>1069.477143</b>	535.242210	<b>1068.493127</b>	534.750202	T	<b>602.325652</b>	301.666464	585.299103	293.153189	<b>584.315087</b>	292.661181	6
8	1183.556456	592.281866	1166.529907	583.768592	<b>1165.545891</b>	583.276584	P	<b>501.277973</b>	251.142624	<b>484.251424</b>	242.629350	483.267408	242.137342	5
9	1240.577920	620.792598	1223.551371	612.279324	1222.567355	611.787315	G	<b>404.225209</b>	202.616242	387.198660	194.102968	386.214644	193.610960	4
10	<b>1311.615034</b>	656.311155	1294.588485	647.797881	1293.604469	647.305872	A	347.203745	174.105510	330.177196	165.592236	<b>329.193180</b>	165.100228	3
11	<b>1412.662713</b>	<b>706.834994</b>	1395.636164	698.321720	1394.652148	697.829712	T	<b>276.166631</b>	138.586953	259.140082	130.073679	258.156066	129.581671	2
12							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SSGQWQTPGATR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
60.3	1585.767120	0.004008	<a href="#">SSGQWQTPGATR</a>
32.5	1585.767120	0.004008	<a href="#">SSGQWQTPGATR</a>
6.6	1585.751846	0.019282	<a href="#">LMDEPALRSPGGGDR</a>
4.5	1585.766922	0.004206	<a href="#">RTSNERPGSGQGQGR</a>
4.3	1585.781006	-0.009878	<a href="#">AYHLVCLDPELEK</a>
3.6	1585.769592	0.001536	<a href="#">ETDHLKSLSSPDKR</a>
3.6	1585.769653	0.001475	<a href="#">GDVGTAGSVGGTGEPLR</a>
2.9	1585.765717	0.005411	<a href="#">DLEELPALEEFAMR</a>
2.6	1585.767075	0.004053	<a href="#">AWENLGEQMKGAPR</a>
1.1	1585.794785	-0.023657	<a href="#">VVDDDDGETIAVLGAGR</a>



**MASCOT** **SCIENCE** Mascot Search Results

**Peptide View**

MS/MS Fragmentation of **SGQSEDR**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 13625: 1088.492168 from(545.253360,2+) rtinseconds(1164) index(27387)

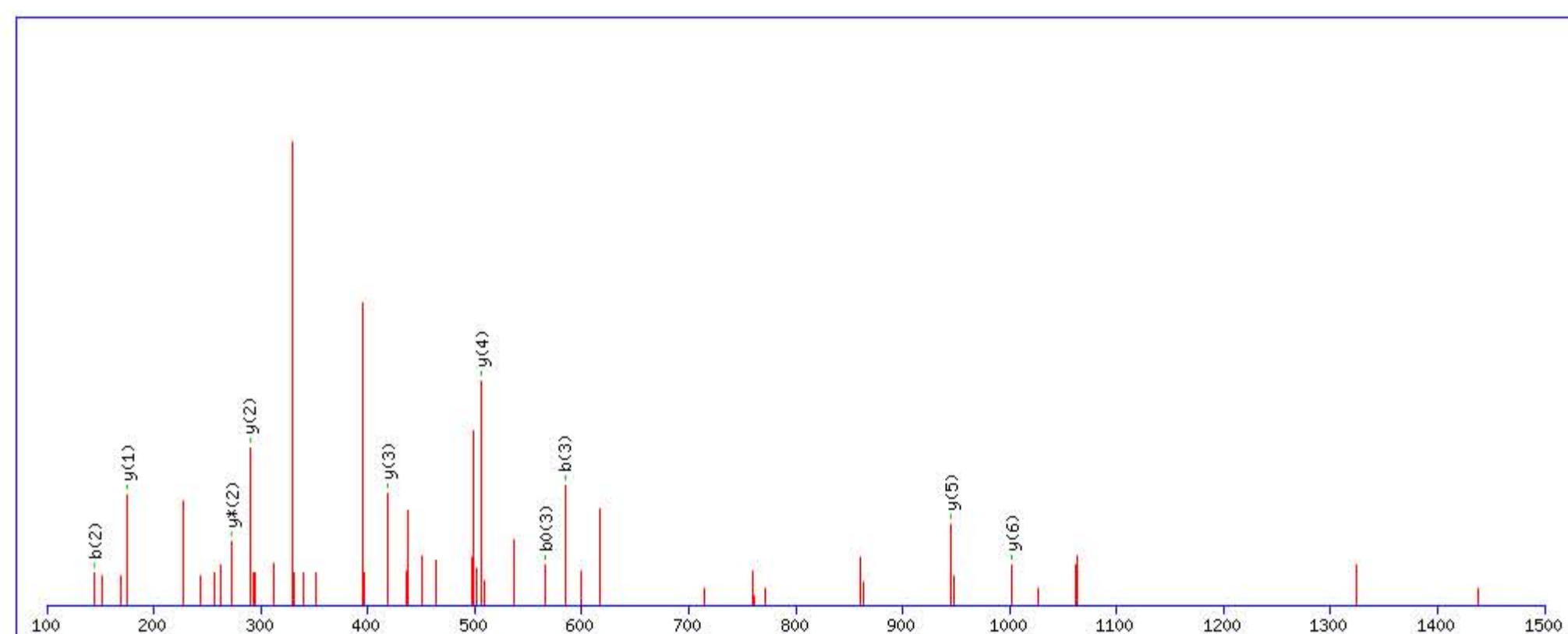
Title: Locus:1.1.1.3068.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1088.492050

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

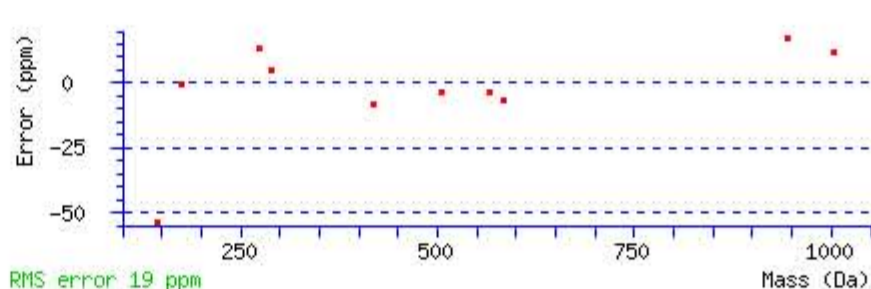
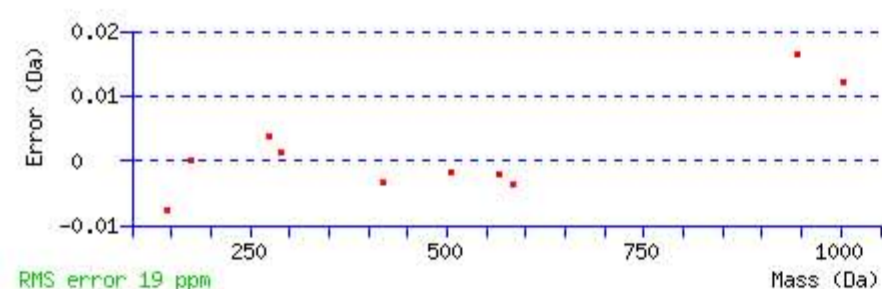
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.0023

Matches : 10/66 fragment ions using 27 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							7
2	<b>145.060768</b>	73.034022			127.050203	64.028740	G	<b>1002.467306</b>	501.737291	985.440757	493.224017	984.456741	492.732009	6
3	<b>584.286094</b>	292.646685	567.259545	284.133411	<b>566.275529</b>	283.641403	Q	<b>945.445842</b>	473.226559	928.419293	464.713285	927.435277	464.221277	5
4	671.318122	336.162699	654.291573	327.649425	653.307557	327.157417	S	<b>506.220516</b>	253.613896	489.193967	245.100621	488.209951	244.608613	4
5	800.360715	400.683996	783.334166	392.170721	782.350150	391.678713	E	<b>419.188488</b>	210.097882	402.161939	201.584608	401.177923	201.092600	3
6	915.387658	458.197467	898.361109	449.684192	897.377093	449.192185	D	<b>290.145895</b>	145.576585	<b>273.119346</b>	137.063311	272.135330	136.571303	2
7							R	<b>175.118952</b>	88.063114	158.092403	79.549840			1



NCBI BLAST search of **SGQSEDR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
28.3	1088.492050	0.000118	<a href="#">SGQSEDR</a>
0.1	1088.478134	0.014034	<a href="#">SQGCPNRDR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **SVQLTEK**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 14637: 1114.601068 from(558.307810,2+) rtinseconds(1572) index(43315)

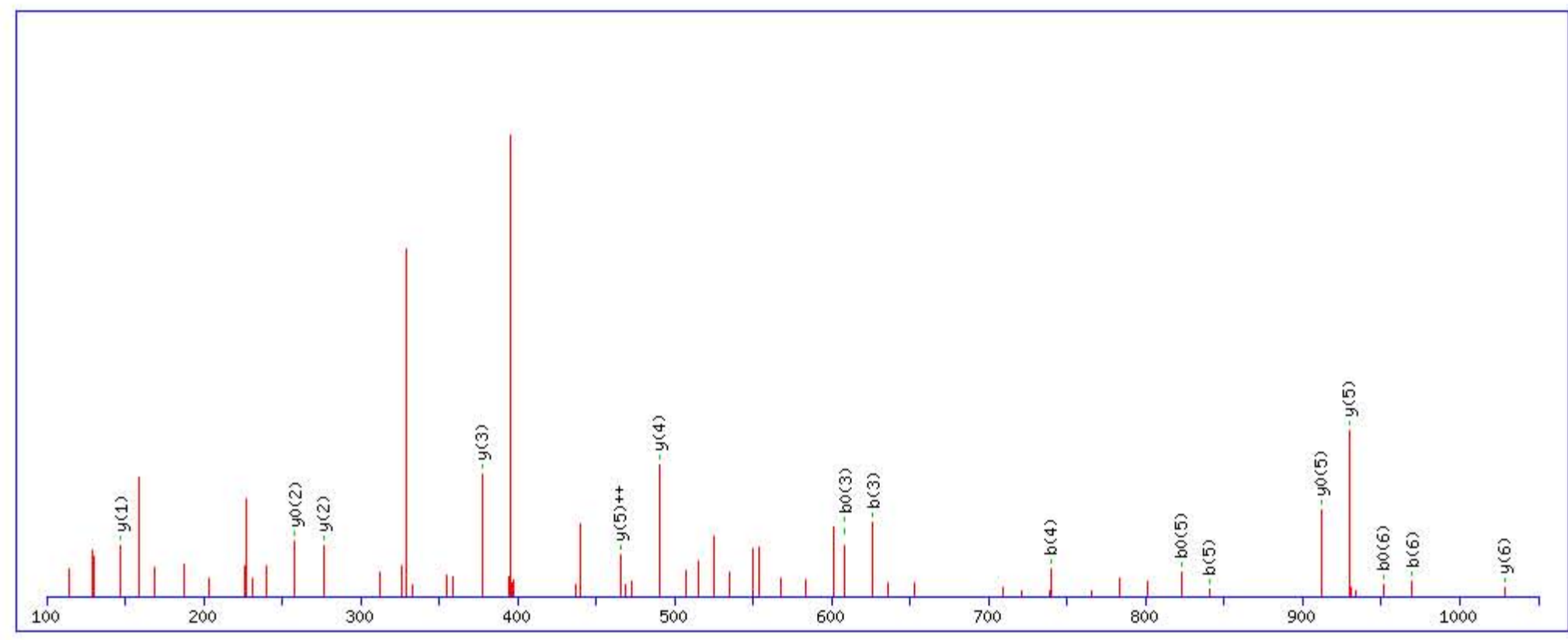
Title: Locus:1.1.1.3260.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1114.605621

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

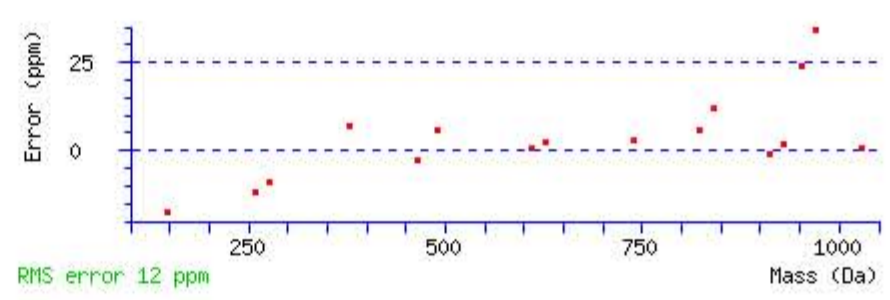
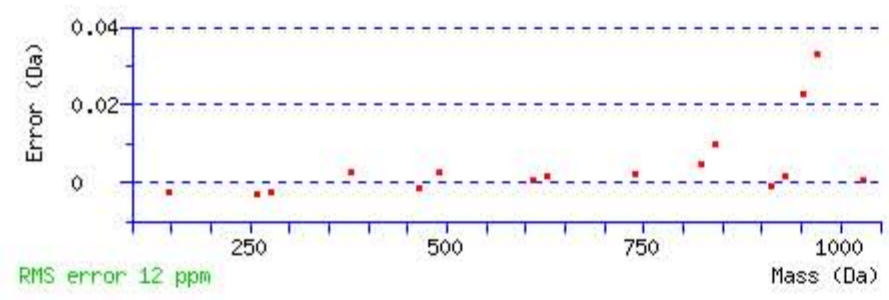
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.013

Matches : 16/66 fragment ions using 28 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							7
2	187.107718	94.057497			169.097153	85.052214	V	1028.580880	514.794078	1011.554331	506.280804	1010.570315	505.788796	6
3	626.333044	313.670160	609.306495	305.156885	608.322479	304.664877	Q	929.512466	465.259871	912.485917	456.746597	911.501901	456.254589	5
4	739.417108	370.212192	722.390559	361.698917	721.406543	361.206909	L	490.287140	245.647208	473.260591	237.133934	472.276575	236.641926	4
5	840.464787	420.736032	823.438238	412.222757	822.454222	411.730749	T	377.203076	189.105176	360.176527	180.591902	359.192511	180.099894	3
6	969.507380	485.257328	952.480831	476.744054	951.496815	476.252046	E	276.155397	138.581336	259.128848	130.068062	258.144832	129.576054	2
7							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **SVQLTEK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
31.9	1114.605621	-0.004553	<a href="#">SVQLTEK</a>
11.0	1114.613480	-0.012412	<a href="#">SVFAKHGLEK</a>
7.5	1114.591690	0.009378	<a href="#">ASVHSMISRK</a>
4.5	1114.609436	-0.008368	<a href="#">EGIKRQQEK</a>
3.7	1114.584503	0.016565	<a href="#">DAQVFPK</a>
3.0	1114.588318	0.012750	<a href="#">RHTGEKPYK</a>
2.4	1114.613480	-0.012412	<a href="#">NKEIVHTFK</a>
2.2	1114.598190	0.002878	<a href="#">QEQAACLAK</a>
2.1	1114.609451	-0.008383	<a href="#">SVARLSPETR</a>
2.0	1114.598236	0.002832	<a href="#">SAVITSLDPGR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **KQELSEAEQATR**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 15525: 1699.847862 from(567.623230,3+) rtinseconds(1435) index(42461)

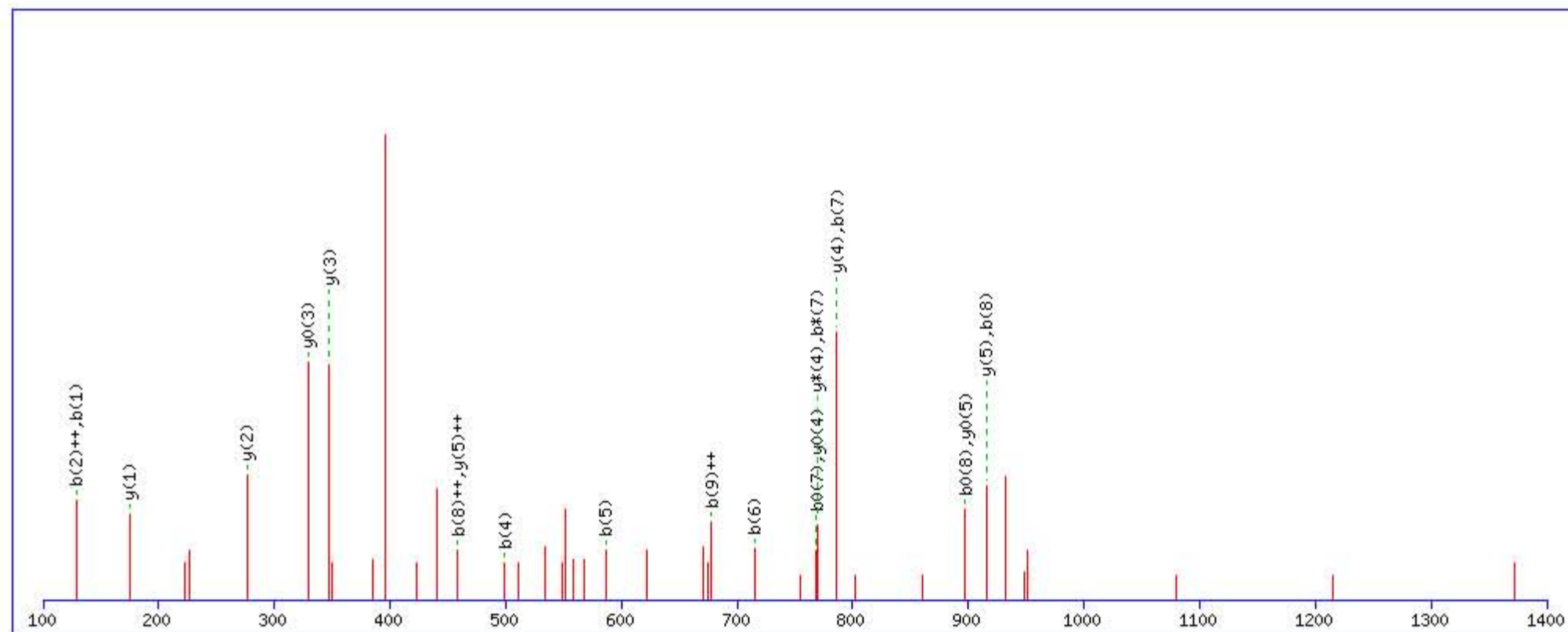
Title: Locus:1.1.1.3212.21 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1699.856277

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

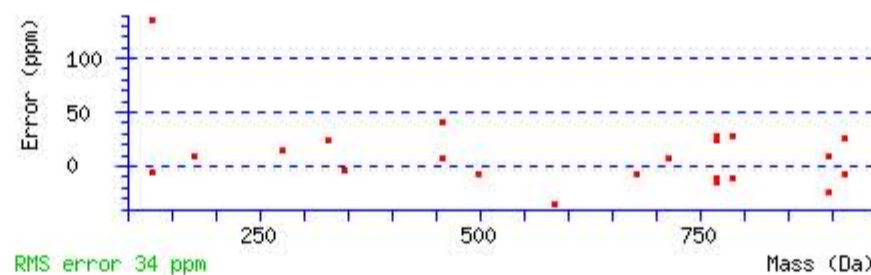
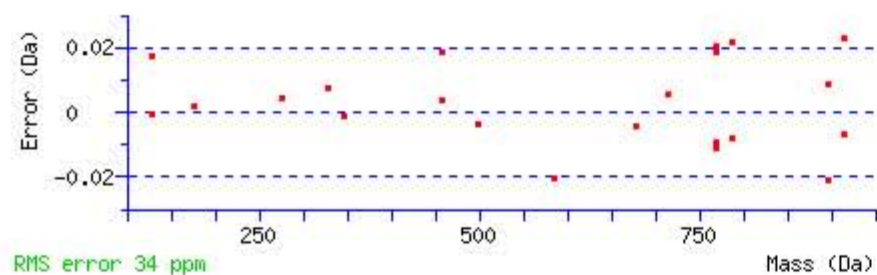
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 31 Expect: 0.014

Matches : 22/126 fragment ions using 28 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>129.102239</b>	65.054757	112.075690	56.541483			<b>K</b>							<b>12</b>
2	257.160817	<b>129.084047</b>	240.134268	120.570772			<b>Q</b>	1572.768634	786.887955	1555.742085	778.374681	1554.758069	777.882673	<b>11</b>
3	386.203410	193.605343	369.176861	185.092069	368.192845	184.600061	<b>E</b>	1444.710056	722.858666	1427.683507	714.345392	1426.699491	713.853384	<b>10</b>
4	<b>499.287474</b>	250.147375	482.260925	241.634101	481.276909	241.142093	<b>L</b>	1315.667463	658.337370	1298.640914	649.824095	1297.656898	649.332087	<b>9</b>
5	<b>586.319502</b>	293.663389	569.292953	285.150115	568.308937	284.658107	<b>S</b>	1202.583399	601.795338	1185.556850	593.282063	1184.572834	592.790055	<b>8</b>
6	<b>715.362095</b>	358.184686	698.335546	349.671411	697.351530	349.179403	<b>E</b>	1115.551371	558.279324	1098.524822	549.766049	1097.540806	549.274041	<b>7</b>
7	<b>786.399209</b>	393.703243	<b>769.372660</b>	385.189968	<b>768.388644</b>	384.697960	<b>A</b>	986.508778	493.758027	969.482229	485.244753	968.498213	484.752745	<b>6</b>
8	<b>915.441802</b>	<b>458.224539</b>	898.415253	449.711265	<b>897.431237</b>	449.219257	<b>E</b>	<b>915.471664</b>	<b>458.239470</b>	898.445115	449.726196	<b>897.461099</b>	449.234188	<b>5</b>
9	1354.667128	<b>677.837202</b>	1337.640579	669.323928	1336.656563	668.831920	<b>Q</b>	<b>786.429071</b>	393.718174	<b>769.402522</b>	385.204899	<b>768.418506</b>	384.712891	<b>4</b>
10	1425.704242	713.355759	1408.677693	704.842485	1407.693677	704.350477	<b>A</b>	<b>347.203745</b>	174.105510	330.177196	165.592236	<b>329.193180</b>	165.100228	<b>3</b>
11	1526.751921	763.879599	1509.725372	755.366324	1508.741356	754.874316	<b>T</b>	<b>276.166631</b>	138.586953	259.140082	130.073679	258.156066	129.581671	<b>2</b>
12							<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839			<b>1</b>



NCBI BLAST search of **KQELSEAEQATR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
30.6	1699.856277	-0.008415	<a href="#">KQELSEAEQATR</a>
10.4	1699.856277	-0.008415	<a href="#">KQELSEAEQATR</a>
10.1	1699.845932	0.001930	<a href="#">QAMQEQLSK</a>
9.5	1699.846405	0.001457	<a href="#">HQEVKMQAPAFRDK</a>
9.4	1699.845932	0.001930	<a href="#">QAMQEQLSK</a>
7.5	1699.843063	0.004799	<a href="#">GKVSEGIDFVHHYGR</a>
5.3	1699.849091	-0.001229	<a href="#">KIFETSIIFCGEEK</a>
0.6	1699.838562	0.009300	<a href="#">EAPTQGLACVSTR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **NEQVEIR**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 17699: 1197.604068 from(599.809310,2+) rtinseconds(1684) index(44070)

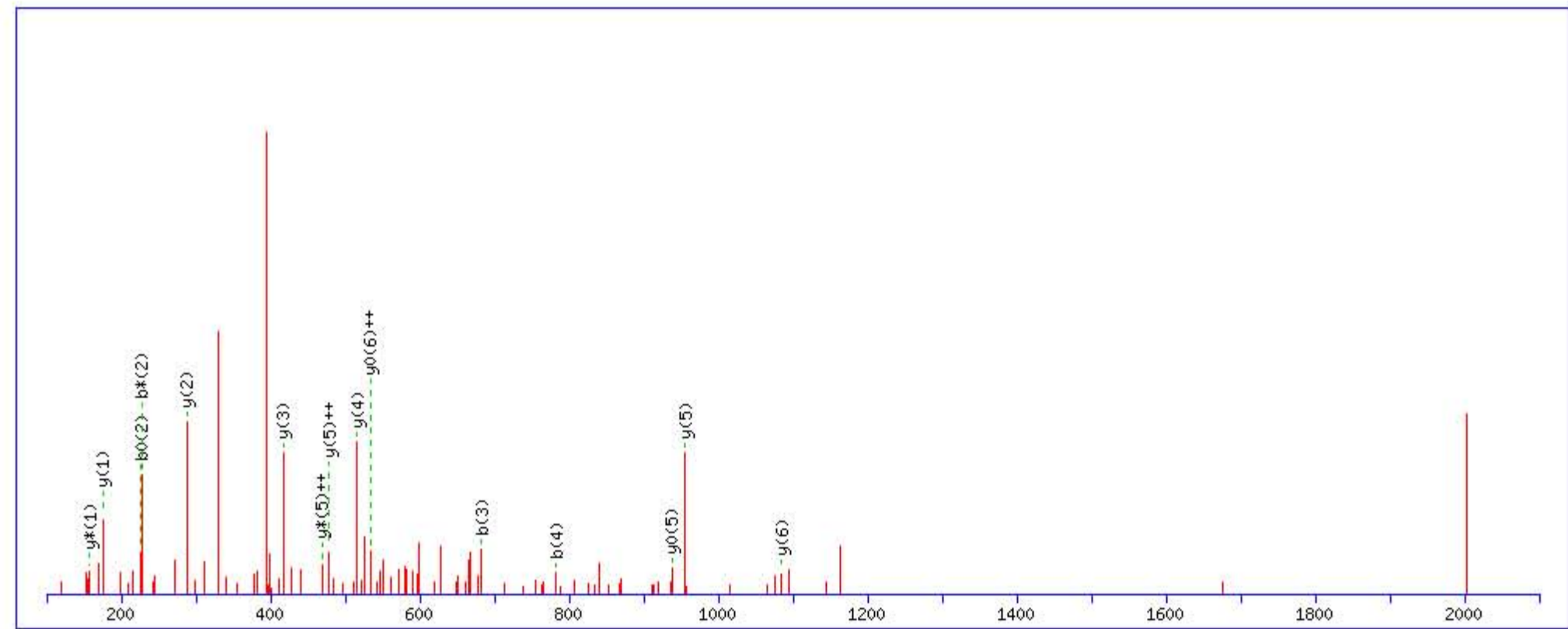
Title: Locus:1.1.1.3299.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1197.617569

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

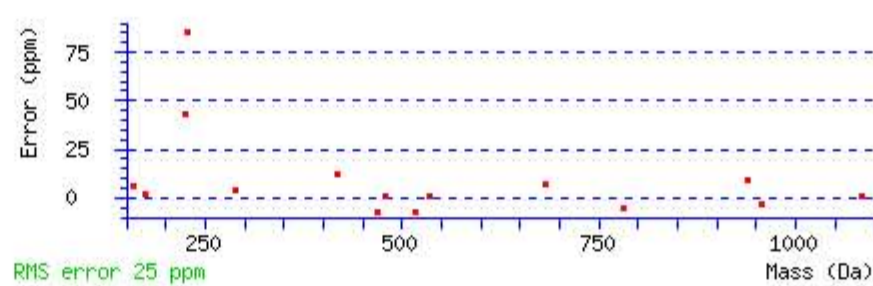
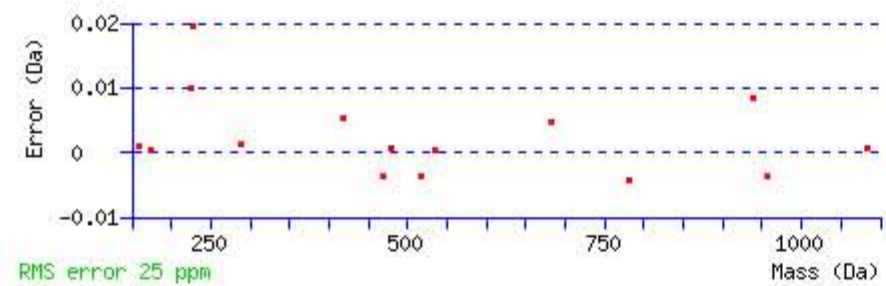
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 29 Expect: 0.014

Matches : 15/66 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							7
2	244.092796	122.550036	<b>227.066247</b>	114.036762	<b>226.082231</b>	113.544754	E	<b>1084.581942</b>	542.794609	1067.555393	534.281335	1066.571377	<b>533.789327</b>	6
3	<b>683.318122</b>	342.162699	666.291573	333.649425	665.307557	333.157417	Q	<b>955.539349</b>	<b>478.273313</b>	938.512800	<b>469.760038</b>	<b>937.528784</b>	469.268030	5
4	<b>782.386536</b>	391.696906	765.359987	383.183632	764.375971	382.691624	V	<b>516.314023</b>	258.660650	499.287474	250.147375	498.303458	249.655367	4
5	911.429129	456.218203	894.402580	447.704928	893.418564	447.212920	E	<b>417.245609</b>	209.126443	400.219060	200.613168	399.235044	200.121160	3
6	1024.513193	512.760235	1007.486644	504.246960	1006.502628	503.754952	I	<b>288.203016</b>	144.605146	271.176467	136.091872			2
7							R	<b>175.118952</b>	88.063114	<b>158.092403</b>	79.549840			1



NCBI BLAST search of **NEQVEIR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
28.5	1197.617569	-0.013501	<a href="#">NEQVEIR</a>
8.3	1197.598953	0.005115	<a href="#">EISPGSGPGEIR</a>
6.5	1197.598938	0.005130	<a href="#">AAQEGDLPELR</a>
6.3	1197.617569	-0.013501	<a href="#">NQEDLLR</a>
4.0	1197.588593	0.015475	<a href="#">TMLAVVDYMR</a>
3.7	1197.617569	-0.013501	<a href="#">QEVNELR</a>
3.7	1197.598953	0.005115	<a href="#">VDNQPEELVR</a>
1.2	1197.589050	0.015018	<a href="#">DKSGLAEHWR</a>
0.7	1197.617584	-0.013516	<a href="#">QDLQLR</a>
0.5	1197.598953	0.005115	<a href="#">QDNLPIEVR</a>

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

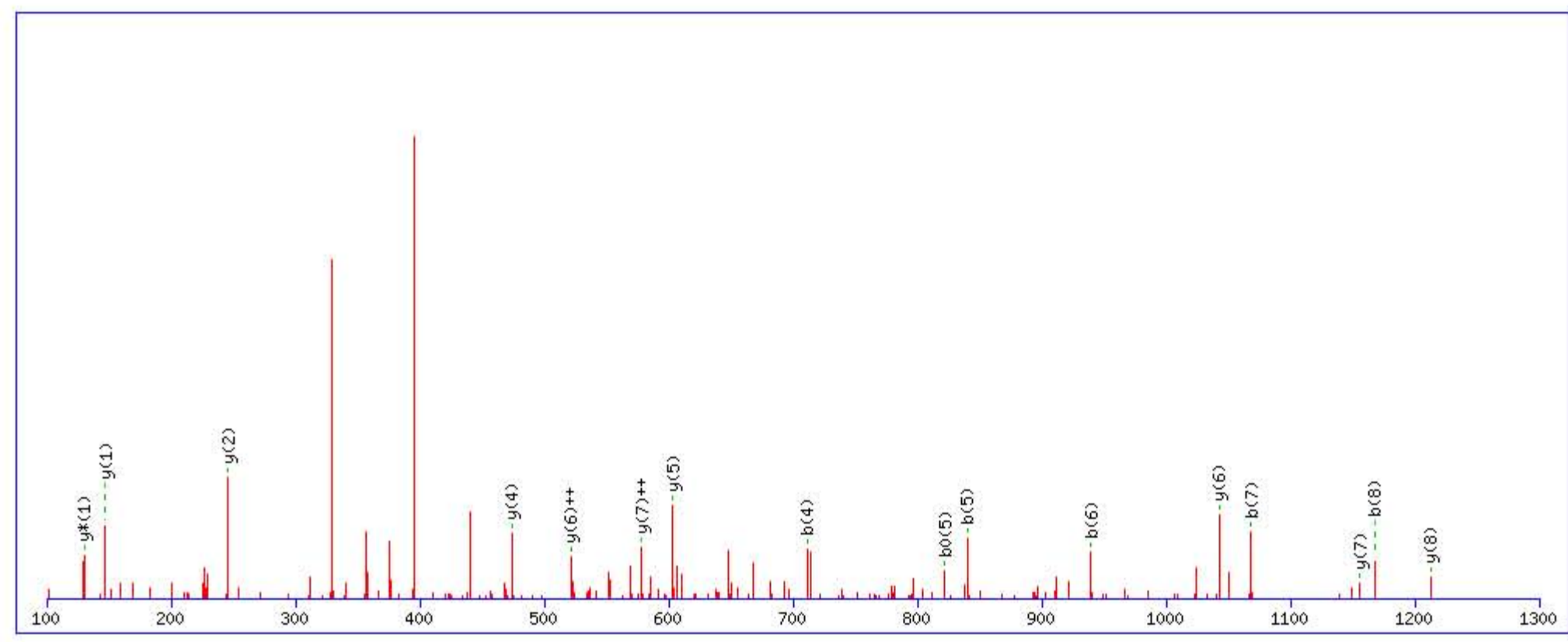
# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **TGLQEVEVK**  
 Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

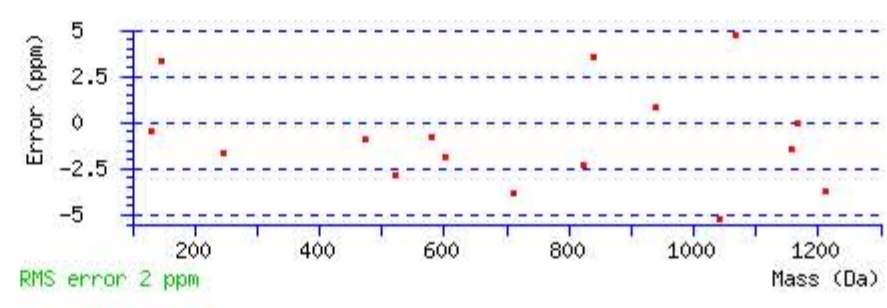
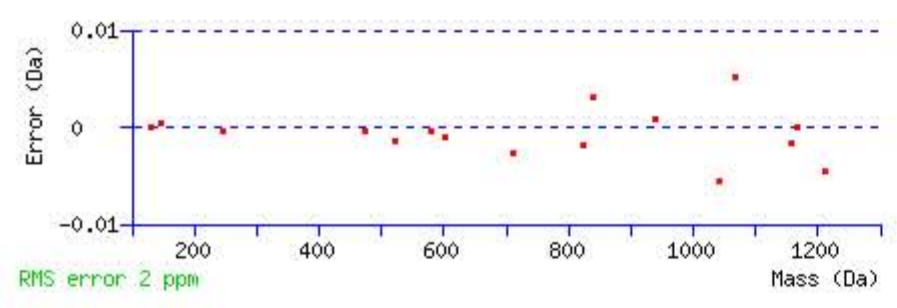
Match to Query 20565: 1312.702108 from(657.358330,2+) rtinseconds(1823) index(30753)  
 Title: Locus:1.1.1.3298.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from 100 to 1300 Da Full range  
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1312.706070  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q4 : Biotin:Thermo-21345 (Q)  
 Ions Score: 52 Expect: 0.00015  
 Matches : 16/86 fragment ions using 23 most intense peaks (help)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							9
2	159.076419	80.041847			141.065854	71.036565	G	1212.665672	606.836474	1195.639123	598.323200	1194.655107	597.831192	8
3	272.160483	136.583879			254.149918	127.578597	L	1155.644208	578.325742	1138.617659	569.812468	1137.633643	569.320460	7
4	711.385809	356.196543	694.359260	347.683268	693.375244	347.191260	Q	1042.560144	521.783710	1025.533595	513.270436	1024.549579	512.778428	6
5	840.428402	420.717839	823.401853	412.204565	822.417837	411.712557	E	603.334818	302.171047	586.308269	293.657773	585.324253	293.165765	5
6	939.496816	470.252046	922.470267	461.738772	921.486251	461.246764	V	474.292225	237.649751	457.265676	229.136476	456.281660	228.644468	4
7	1068.539409	534.773343	1051.512860	526.260068	1050.528844	525.768060	E	375.223811	188.115544	358.197262	179.602269	357.213246	179.110261	3
8	1167.607823	584.307550	1150.581274	575.794275	1149.597258	575.302267	V	246.181218	123.594247	229.154669	115.080973			2
9							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **TGLQEVEVK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
52.1	1312.706070	-0.003962	<a href="#">TGLQEVEVK</a>
12.2	1312.699524	0.002584	<a href="#">TIMHLMINNVK</a>
11.4	1312.713913	-0.011805	<a href="#">KVFEKYTTAAR</a>
7.1	1312.709869	-0.007761	<a href="#">QAEAVAKLQAR</a>
6.5	1312.717300	-0.015192	<a href="#">ASLQTVDIR</a>
5.0	1312.692139	0.009969	<a href="#">DRQSQIQK</a>
3.5	1312.721130	-0.019022	<a href="#">QVEVLTNQAR</a>
2.9	1312.709915	-0.007807	<a href="#">VKDATQITQGR</a>
2.8	1312.721115	-0.019007	<a href="#">KKPQRDSQAQK</a>
2.6	1312.703384	-0.001276	<a href="#">RGGSLGQTAR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VLLDGVQNPR**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 24704: 1420.782012 from(474.601280,3+) rtinseconds(2004) index(31916)

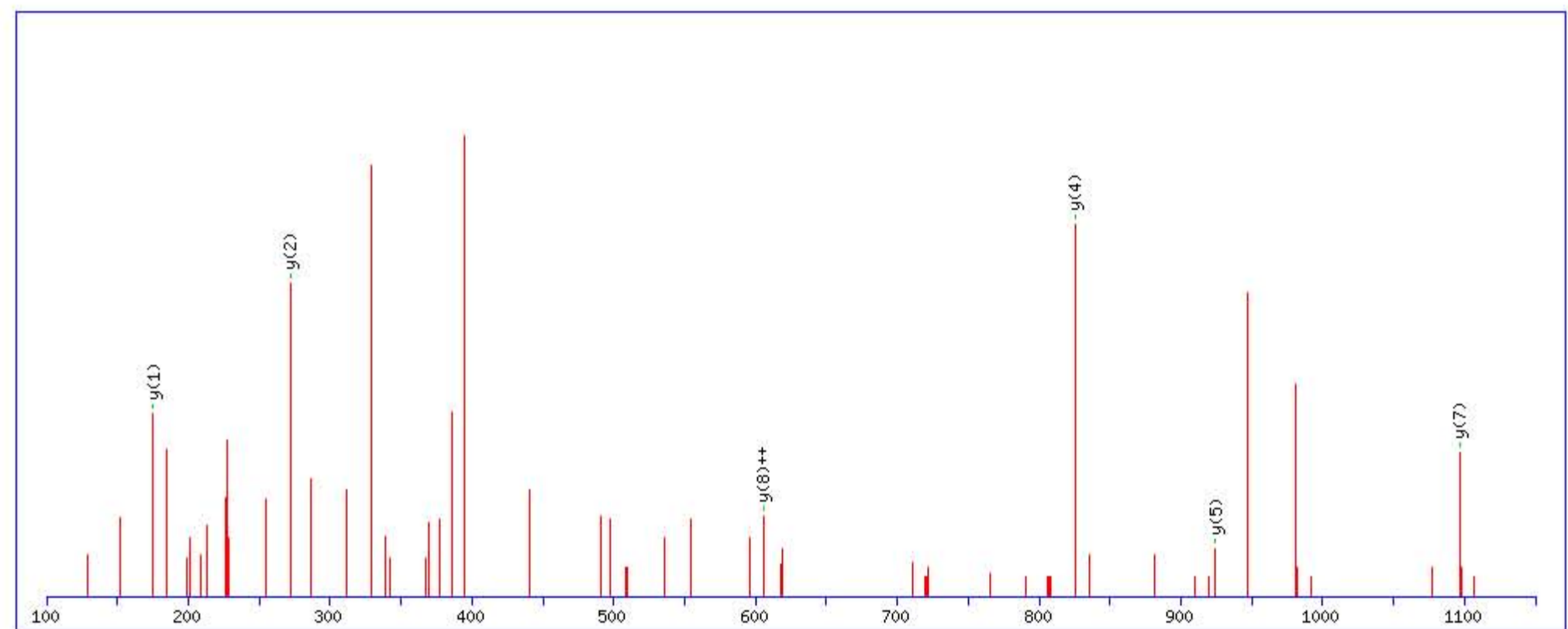
Title: Locus:1.1.1.3361.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1420.786057

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

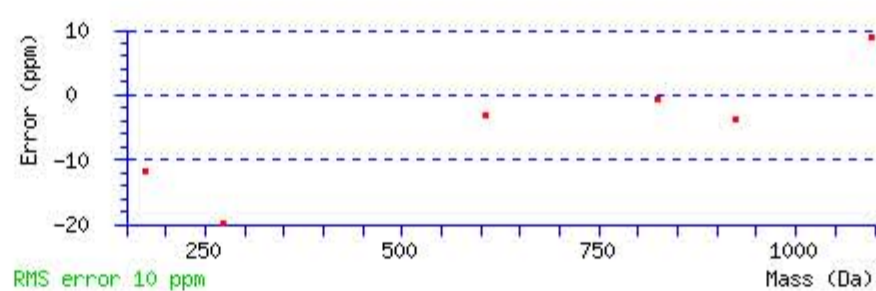
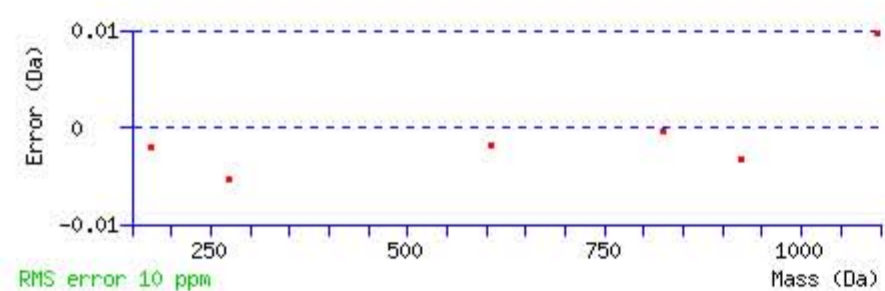
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 29 Expect: 0.0022

Matches : 6/78 fragment ions using 10 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							10
2	213.159754	107.083515					L	1322.724918	661.866097	1305.698369	653.352823	1304.714353	652.860814	9
3	326.243818	163.625547					L	1209.640854	605.324065	1192.614305	596.810791	1191.630289	596.318783	8
4	441.270761	221.139018			423.260196	212.133736	D	1096.556790	548.782033	1079.530241	540.268758	1078.546225	539.776750	7
5	498.292225	249.649750			480.281660	240.644468	G	981.529847	491.268562	964.503298	482.755287			6
6	597.360639	299.183958			579.350074	290.178675	V	924.508383	462.757830	907.481834	454.244555			5
7	1036.585965	518.796621	1019.559416	510.283346	1018.575400	509.791338	Q	825.439969	413.223623	808.413420	404.710348			4
8	1150.628892	575.818084	1133.602343	567.304810	1132.618327	566.812801	N	386.214643	193.610959	369.188094	185.097685			3
9	1247.681656	624.344466	1230.655107	615.831192	1229.671091	615.339183	P	272.171716	136.589496	255.145167	128.076221			2
10							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VLLDGVQNPR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
28.8	1420.786057	-0.004045	<a href="#">VLLDGVQNPR</a>
0.6	1420.793915	-0.011903	<a href="#">TVIPLRWQPAPR</a>

**MATRIX SCIENCE Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **HQQTVTIPPK**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 26138: 1458.794322 from(487.272050,3+) rtinseconds(1636) index(29679)

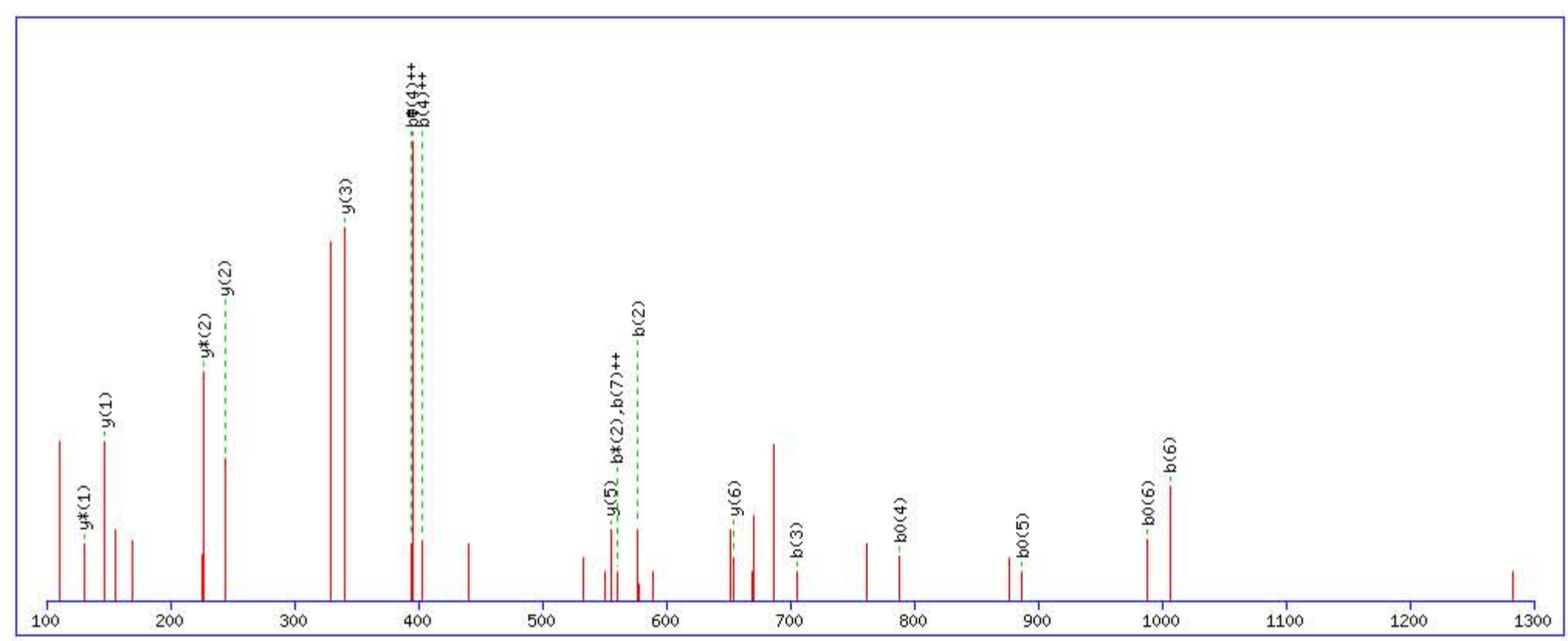
Title: Locus:1.1.1.3233.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

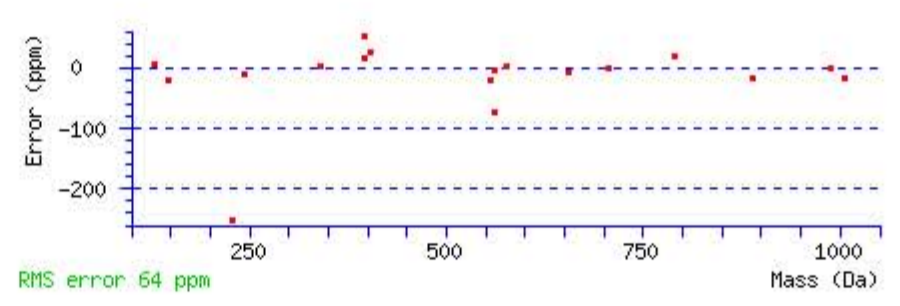
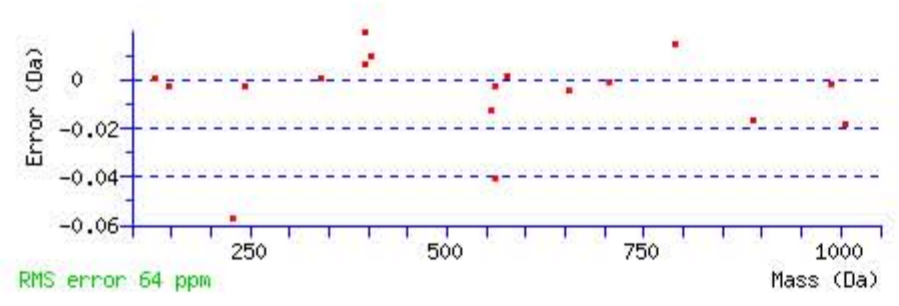
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1458.801712  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q2 : Biotin:Thermo-21345 (Q)  
 Ions Score: 27 Expect: 0.0053  
 Matches : 18/92 fragment ions using 33 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							10
2	<b>577.291514</b>	289.149395	<b>560.264965</b>	280.636121			Q	1322.750072	661.878674	1305.723523	653.365400	1304.739507	652.873392	9
3	<b>705.350092</b>	353.178684	688.323543	344.665410			Q	883.524746	442.266011	866.498197	433.752737	865.514181	433.260729	8
4	806.397771	<b>403.702524</b>	789.371222	<b>395.189249</b>	<b>788.387206</b>	<b>394.697241</b>	T	755.466168	378.236722	738.439619	369.723448	737.455603	369.231440	7
5	905.466185	453.236731	888.439636	444.723456	<b>887.455620</b>	444.231448	V	<b>654.418489</b>	327.712883	637.391940	319.199608	636.407924	318.707600	6
6	<b>1006.513864</b>	503.760570	989.487315	495.247296	<b>988.503299</b>	494.755288	T	<b>555.350075</b>	278.178676	538.323526	269.665401	537.339510	269.173393	5
7	1119.597928	<b>560.302602</b>	1102.571379	551.789328	1101.587363	551.297319	I	454.302396	227.654836	437.275847	219.141561			4
8	1216.650692	608.828984	1199.624143	600.315710	1198.640127	599.823701	P	<b>341.218332</b>	171.112804	324.191783	162.599530			3
9	1313.703456	657.355366	1296.676907	648.842092	1295.692891	648.350083	P	<b>244.165568</b>	122.586422	<b>227.139019</b>	114.073148			2
10							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of [HQQTVTIPPK](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
26.8	1458.801712	-0.007390	<a href="#">HQQTVTIPPK</a>
21.6	1458.801712	-0.007390	<a href="#">HQQTVTIPPK</a>
2.5	1458.809555	-0.015233	<a href="#">VIQVWFQNARAK</a>
2.5	1458.809555	-0.015233	<a href="#">VLQVWFQNARAK</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **HQQTVTIPP**K

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 26140: 1458.794412 from(487.272080,3+) rtinseconds(1596) index(29373)

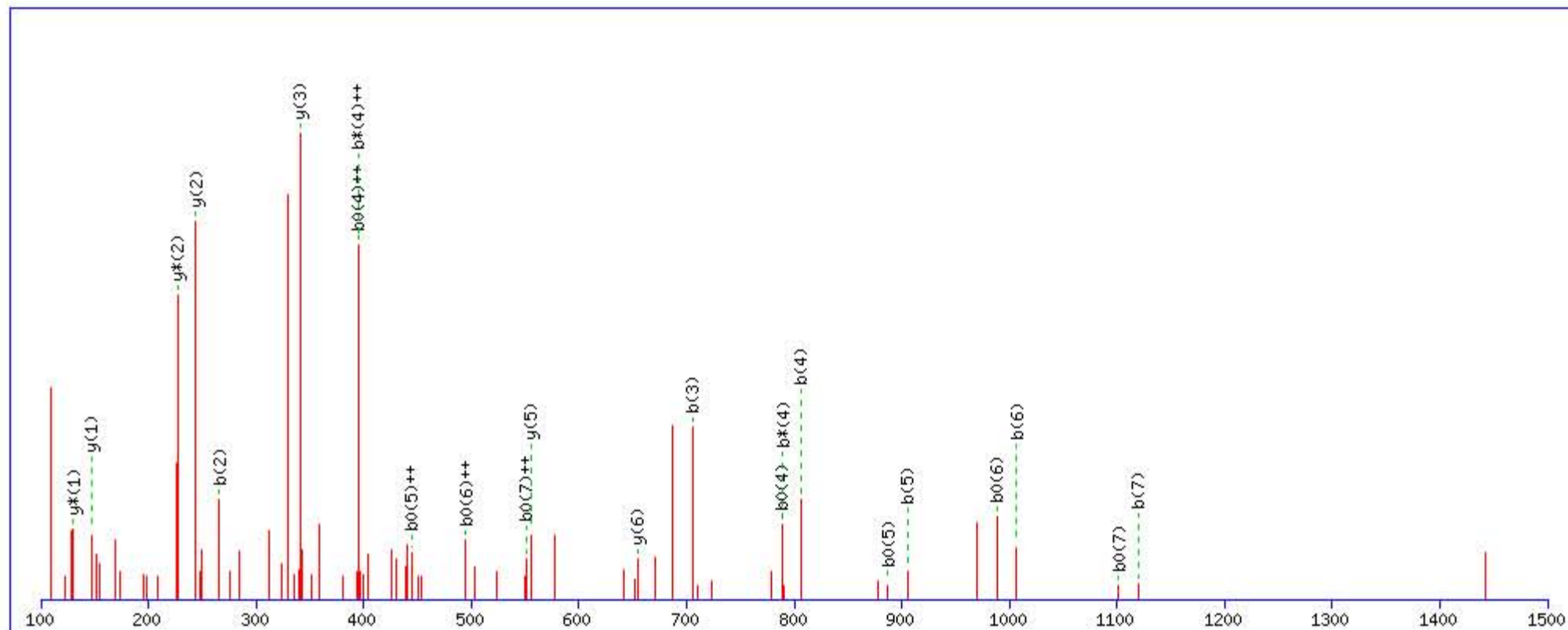
Title: Locus:1.1.1.3219.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1458.801712

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

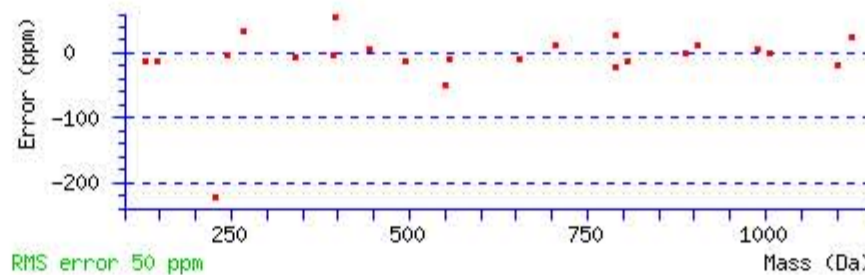
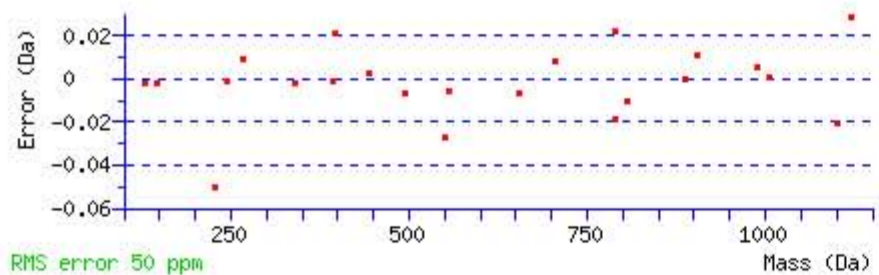
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 38 Expect: 0.0015

Matches : 23/92 fragment ions using 37 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					<b>H</b>							10
2	<b>266.124766</b>	133.566021	249.098217	125.052746			<b>Q</b>	1322.750072	661.878674	1305.723523	653.365400	1304.739507	652.873392	9
3	<b>705.350092</b>	353.178684	688.323543	344.665410			<b>Q</b>	1194.691494	597.849385	1177.664945	589.336111	1176.680929	588.844102	8
4	<b>806.397771</b>	403.702524	<b>789.371222</b>	<b>395.189249</b>	<b>788.387206</b>	<b>394.697241</b>	<b>T</b>	755.466168	378.236722	738.439619	369.723448	737.455603	369.231440	7
5	<b>905.466185</b>	453.236731	888.439636	444.723456	<b>887.455620</b>	<b>444.231448</b>	<b>V</b>	<b>654.418489</b>	327.712883	637.391940	319.199608	636.407924	318.707600	6
6	<b>1006.513864</b>	503.760570	989.487315	495.247296	<b>988.503299</b>	<b>494.755288</b>	<b>T</b>	<b>555.350075</b>	278.178676	538.323526	269.665401	537.339510	269.173393	5
7	<b>1119.597928</b>	560.302602	1102.571379	551.789328	<b>1101.587363</b>	<b>551.297319</b>	<b>I</b>	454.302396	227.654836	437.275847	219.141561			4
8	1216.650692	608.828984	1199.624143	600.315710	1198.640127	599.823701	<b>P</b>	<b>341.218332</b>	171.112804	324.191783	162.599530			3
9	1313.703456	657.355366	1296.676907	648.842092	1295.692891	648.350083	<b>P</b>	<b>244.165568</b>	122.586422	<b>227.139019</b>	114.073148			2
10							<b>K</b>	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **HQQTVTIPP**K

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
37.8	1458.801712	-0.007300	<a href="#">HQQTVTIPP</a> K
37.8	1458.801712	-0.007300	<a href="#">HQQTVTIPP</a> K
7.2	1458.776535	0.017877	<a href="#">QHPADKLP</a> SR
3.3	1458.786392	0.008020	<a href="#">EALRIAKE</a> CIEK
0.9	1458.794281	0.000131	<a href="#">EYDIPGL</a> VRKNR



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AELQCPQPAAR**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 28517: 1550.761368 from(776.387960,2+) rtinseconds(1600) index(29396)

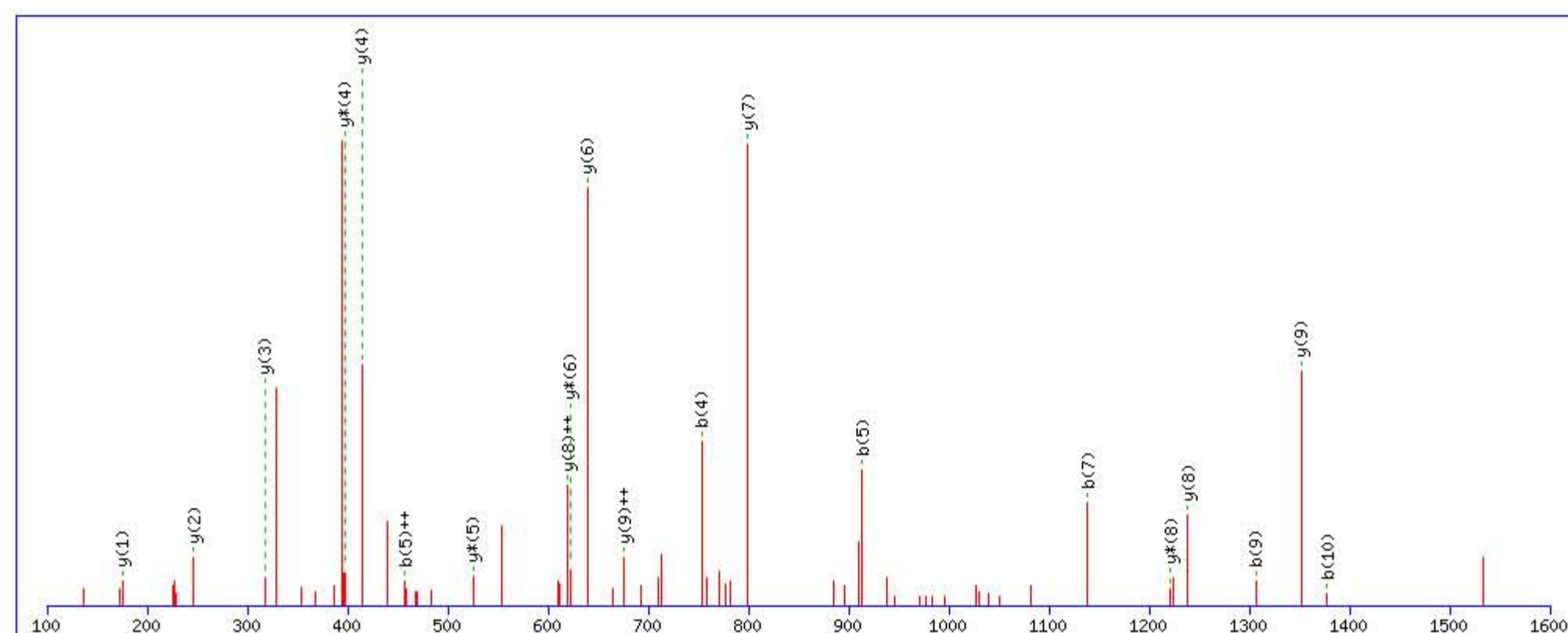
Title: Locus:1.1.1.3220.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1550.769730

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

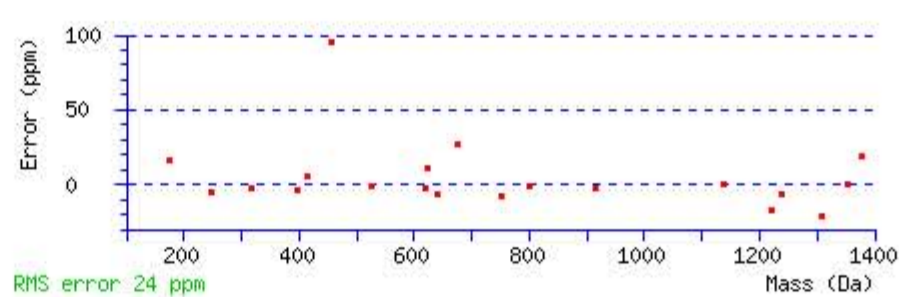
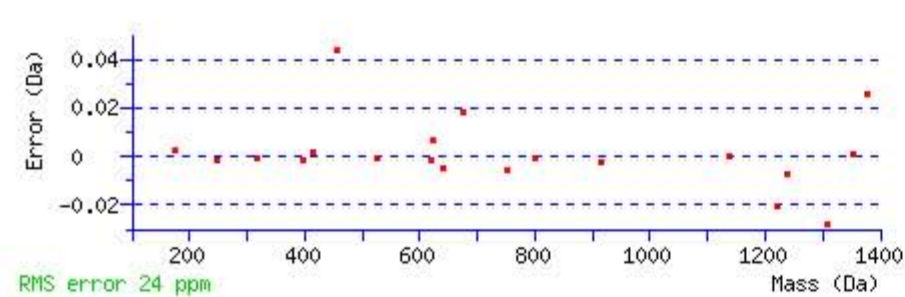
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 44 Expect: 0.00076

Matches : 20/94 fragment ions using 39 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							11
2	201.086983	101.047130			183.076418	92.041847	E	1480.739918	740.873597	1463.713369	732.360323	1462.729353	731.868315	10
3	314.171047	157.589161			296.160482	148.583879	L	<b>1351.697325</b>	<b>676.352301</b>	1334.670776	667.839026			9
4	<b>753.396373</b>	377.201825	736.369824	368.688550	735.385808	368.196542	Q	<b>1238.613261</b>	<b>619.810269</b>	<b>1221.586712</b>	611.296994			8
5	<b>913.427022</b>	<b>457.217149</b>	896.400473	448.703875	895.416457	448.211867	C	<b>799.387935</b>	400.197606	782.361386	391.684331			7
6	1010.479786	505.743531	993.453237	497.230257	992.469221	496.738249	P	<b>639.357286</b>	320.182281	<b>622.330737</b>	311.669007			6
7	<b>1138.538364</b>	569.772820	1121.511815	561.259546	1120.527799	560.767538	Q	542.304522	271.655899	<b>525.277973</b>	263.142625			5
8	1235.591128	618.299202	1218.564579	609.785928	1217.580563	609.293920	P	<b>414.245944</b>	207.626610	<b>397.219395</b>	199.113335			4
9	<b>1306.628242</b>	653.817759	1289.601693	645.304485	1288.617677	644.812477	A	<b>317.193180</b>	159.100228	300.166631	150.586953			3
10	<b>1377.665356</b>	689.336316	1360.638807	680.823042	1359.654791	680.331034	A	<b>246.156066</b>	123.581671	229.129517	115.068396			2
11							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **AELQCPQPAAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
44.4	1550.769730	-0.008362	<a href="#">AELQCPQPAAR</a>
17.5	1550.769730	-0.008362	<a href="#">AELQCPQPAAR</a>
15.4	1550.780945	-0.019577	<a href="#">EAIREHQMAR</a>
13.3	1550.741196	0.020172	<a href="#">LWNMPENGLHAR</a>
9.4	1550.761856	-0.000488	<a href="#">MCSLMLSKELPAR</a>
7.7	1550.780121	-0.018753	<a href="#">GSSPGPRPVEGTPASR</a>
6.6	1550.743912	0.017456	<a href="#">ISGLVEGTMYYFR</a>
6.3	1550.780975	-0.019607	<a href="#">AANGQGQQR</a>
4.7	1550.761856	-0.000488	<a href="#">MCSLMLSKELPAR</a>
4.5	1550.768845	-0.007477	<a href="#">SLGKRDLIDEAER</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SGSDEVQVGQQR**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 30567: 1599.764408 from(800.889480,2+) rtinseconds(1594) index(29363)

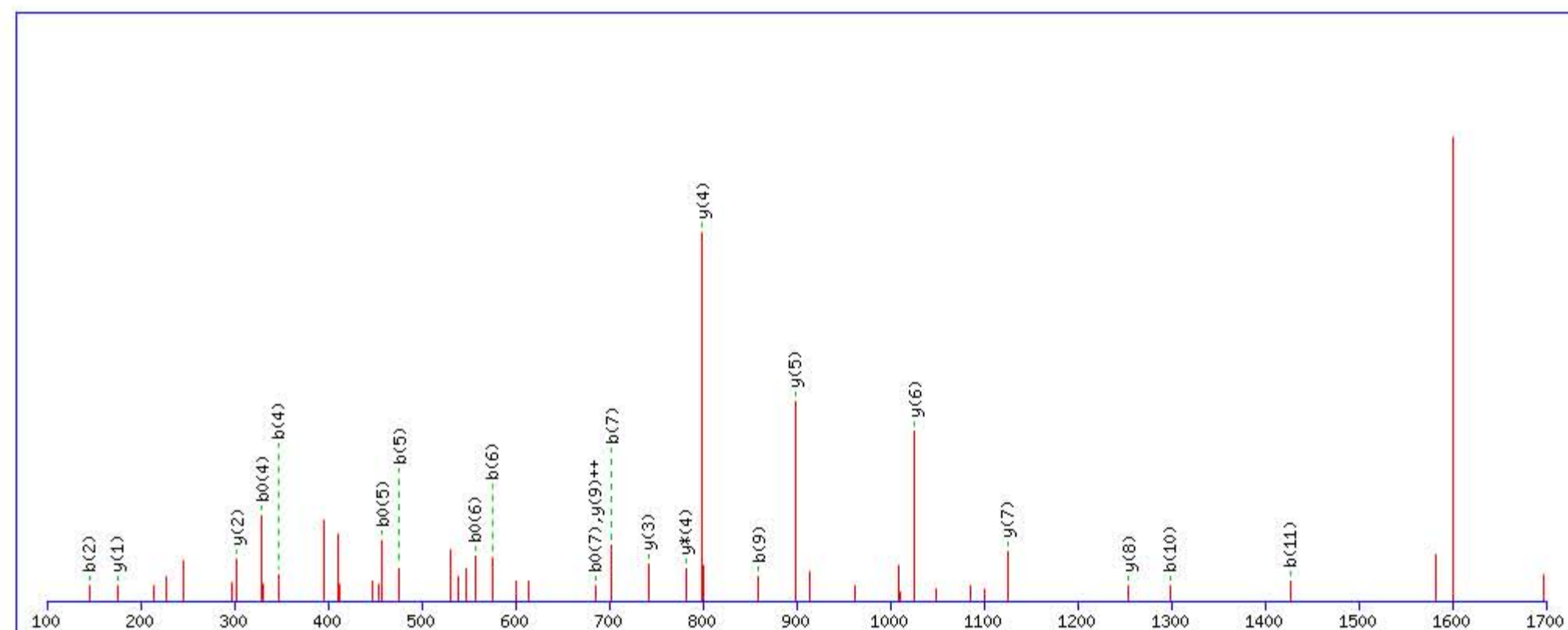
Title: Locus:1.1.1.3218.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1599.767517

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

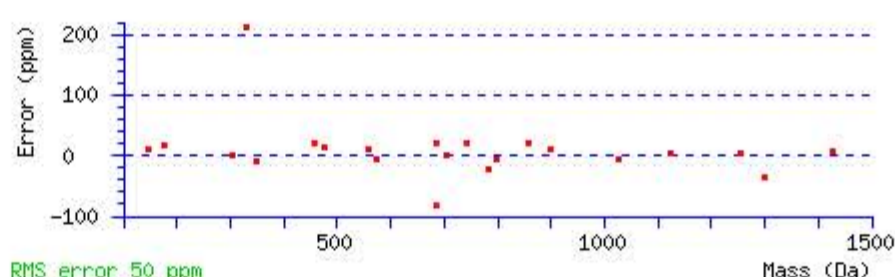
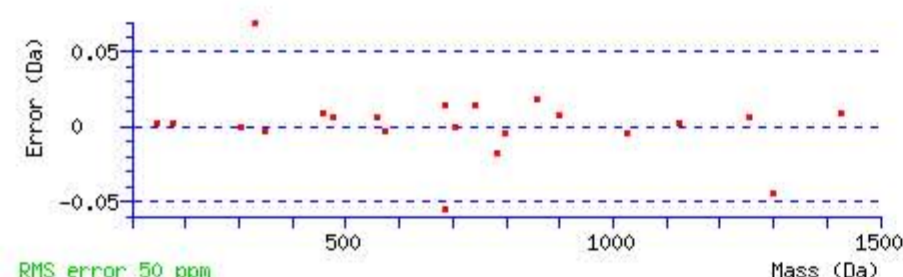
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 57 Expect: 2.7e-005

Matches : 22/106 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							12
2	<b>145.060768</b>	73.034022			127.050203	64.028740	G	1513.742754	757.375015	1496.716205	748.861741	1495.732189	748.369733	11
3	232.092796	116.550036			214.082231	107.544753	S	1456.721290	728.864283	1439.694741	720.351009	1438.710725	719.859001	10
4	<b>347.119739</b>	174.063507			<b>329.109174</b>	165.058225	D	1369.689262	<b>685.348269</b>	1352.662713	676.834995	1351.678697	676.342987	9
5	<b>476.162332</b>	238.584804			<b>458.151767</b>	229.579522	E	<b>1254.662319</b>	627.834798	1237.635770	619.321523	1236.651754	618.829515	8
6	<b>575.230746</b>	288.119011			<b>557.220181</b>	279.113729	V	<b>1125.619726</b>	563.313501	1108.593177	554.800227			7
7	<b>703.289324</b>	352.148300	686.262775	343.635026	<b>685.278759</b>	343.143018	Q	<b>1026.551312</b>	513.779294	1009.524763	505.266020			6
8	802.357738	401.682507	785.331189	393.169233	784.347173	392.677225	V	<b>898.492734</b>	449.750005	881.466185	441.236731			5
9	<b>859.379202</b>	430.193239	842.352653	421.679965	841.368637	421.187957	G	<b>799.424320</b>	400.215798	<b>782.397771</b>	391.702524			4
10	<b>1298.604528</b>	649.805902	1281.577979	641.292628	1280.593963	640.800620	Q	<b>742.402856</b>	371.705066	725.376307	363.191792			3
11	<b>1426.663106</b>	713.835191	1409.636557	705.321917	1408.652541	704.829909	Q	<b>303.177530</b>	152.092403	286.150981	143.579129			2
12							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SGSDEVQVGQQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
57.2	1599.767517	-0.003109	<a href="#">SGSDEVQVGQQR</a>
43.9	1599.767517	-0.003109	<a href="#">SGSDEVQVGQQR</a>
22.4	1599.767517	-0.003109	<a href="#">SGSDEVQVGQQR</a>
8.3	1599.785217	-0.020809	<a href="#">AQDLEAAQALAQSER</a>
5.3	1599.774872	-0.010464	<a href="#">MAKEAIFQDTMRK</a>
1.8	1599.742325	0.022083	<a href="#">REGDQEERDR</a>
1.1	1599.767471	-0.003063	<a href="#">AMNAANLNIPPSDTR</a>
0.0	1599.785217	-0.020809	<a href="#">SELNIQNAVVENQK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SGSDEVQVGQQR**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 30568: 1599.764428 from(800.889490,2+) rtinseconds(1585) index(29317)

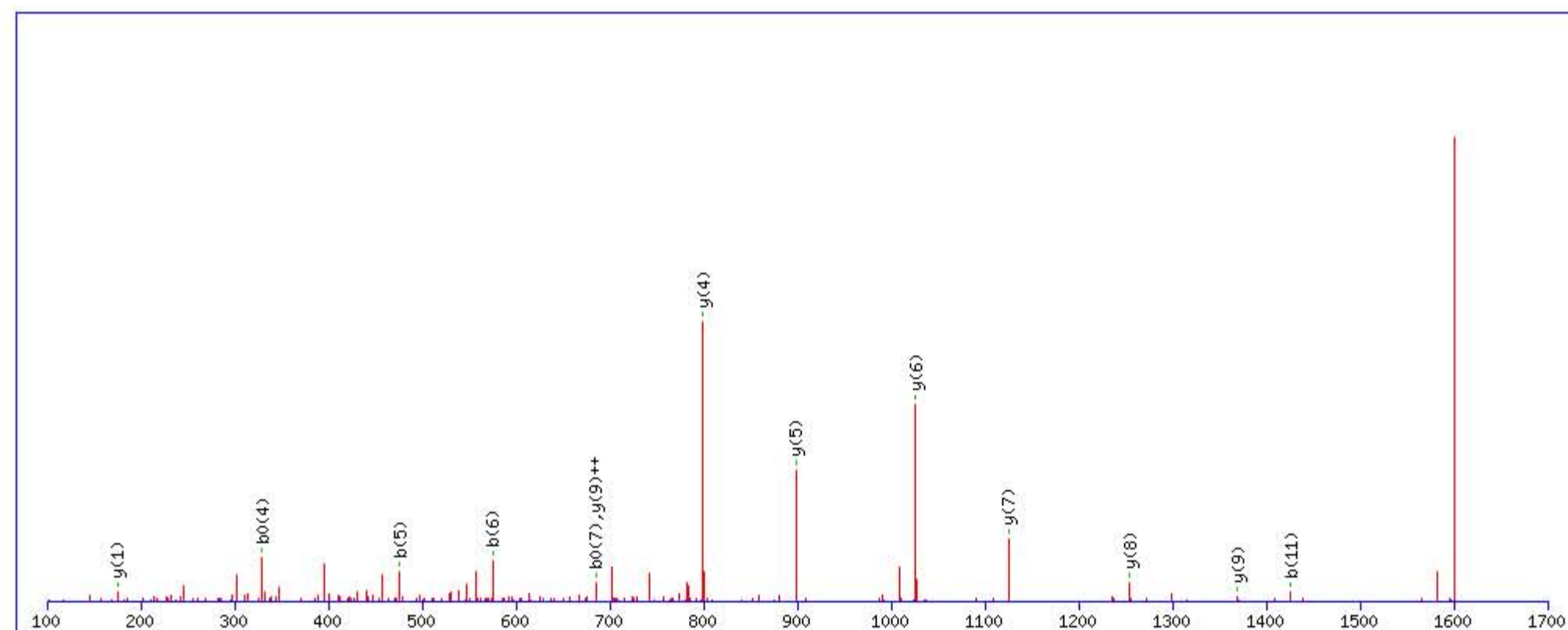
Title: Locus:1.1.1.3215.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1599.767517

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

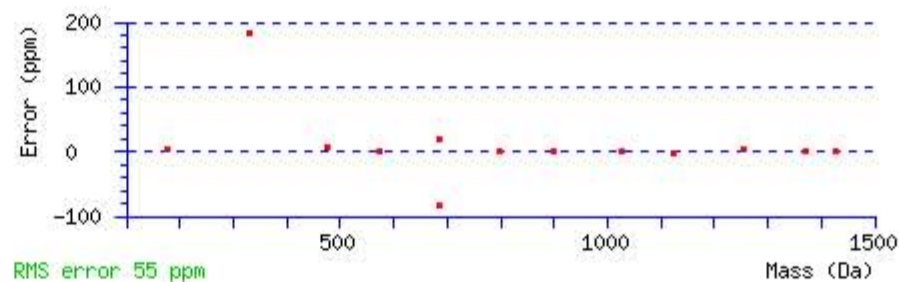
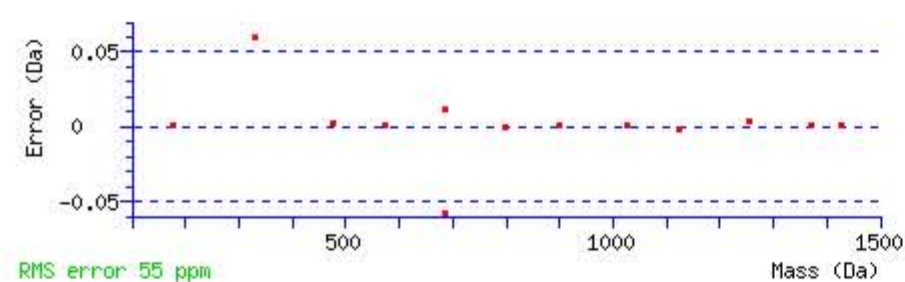
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 61 Expect: 1.2e-005

Matches : 13/106 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							12
2	145.060768	73.034022			127.050203	64.028740	G	1513.742754	757.375015	1496.716205	748.861741	1495.732189	748.369733	11
3	232.092796	116.550036			214.082231	107.544753	S	1456.721290	728.864283	1439.694741	720.351009	1438.710725	719.859001	10
4	347.119739	174.063507			329.109174	165.058225	D	1369.689262	685.348269	1352.662713	676.834995	1351.678697	676.342987	9
5	476.162332	238.584804			458.151767	229.579522	E	1254.662319	627.834798	1237.635770	619.321523	1236.651754	618.829515	8
6	575.230746	288.119011			557.220181	279.113729	V	1125.619726	563.313501	1108.593177	554.800227			7
7	703.289324	352.148300	686.262775	343.635026	685.278759	343.143018	Q	1026.551312	513.779294	1009.524763	505.266020			6
8	802.357738	401.682507	785.331189	393.169233	784.347173	392.677225	V	898.492734	449.750005	881.466185	441.236731			5
9	859.379202	430.193239	842.352653	421.679965	841.368637	421.187957	G	799.424320	400.215798	782.397771	391.702524			4
10	987.437780	494.222528	970.411231	485.709254	969.427215	485.217246	Q	742.402856	371.705066	725.376307	363.191792			3
11	1426.663106	713.835191	1409.636557	705.321917	1408.652541	704.829909	Q	614.344278	307.675777	597.317729	299.162503			2
12							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SGSDEVQVGQQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
60.8	1599.767517	-0.003089	<a href="#">SGSDEVQVGQQR</a>
60.8	1599.767517	-0.003089	<a href="#">SGSDEVQVGQQR</a>
30.3	1599.767517	-0.003089	<a href="#">SGSDEVQVGQQR</a>
10.8	1599.767471	-0.003043	<a href="#">AMNAANLNIPPSDTR</a>
7.1	1599.779388	-0.014960	<a href="#">RFPDFSYITQNGR</a>
6.2	1599.742325	0.022103	<a href="#">REGDQEERDR</a>
5.4	1599.767502	-0.003074	<a href="#">LHMLSSVDLNGQDR</a>
0.8	1599.761612	0.002816	<a href="#">MNNKAGSFFWNLR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **CAEENCFIQK**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 30816: 1608.706268 from(805.360410,2+) rtinseconds(1811) index(30678)

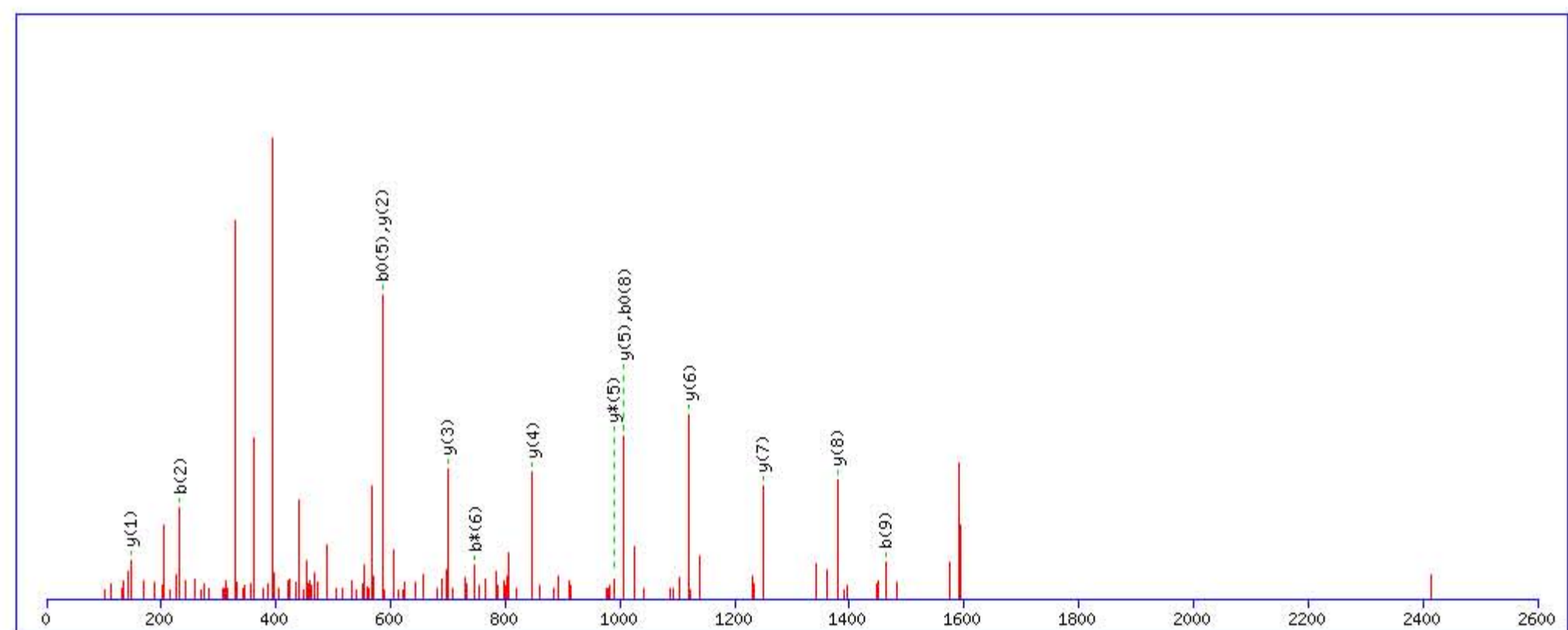
Title: Locus:1.1.1.3294.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1608.709839

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

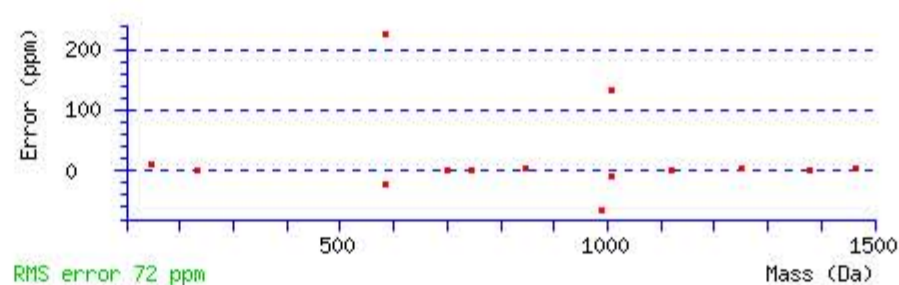
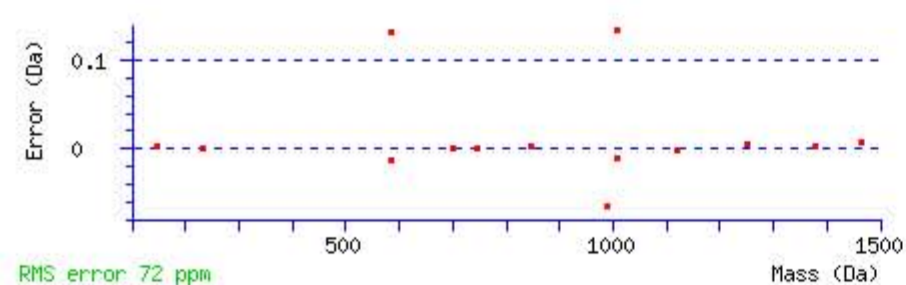
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 70 Expect: 5.3e-007

Matches : 14/84 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	161.037925	81.022600					C							10
2	<b>232.075039</b>	116.541158					A	1449.686484	725.346880	1432.659935	716.833606	1431.675919	716.341598	9
3	361.117632	181.062454			343.107067	172.057172	E	<b>1378.649370</b>	689.828323	1361.622821	681.315049	1360.638805	680.823041	8
4	490.160225	245.583751			472.149660	236.578468	E	<b>1249.606777</b>	625.307027	1232.580228	616.793752	1231.596212	616.301744	7
5	604.203152	302.605214	587.176603	294.091940	<b>586.192587</b>	293.599932	N	<b>1120.564184</b>	560.785730	1103.537635	552.272456			6
6	764.233801	382.620539	<b>747.207252</b>	374.107264	746.223236	373.615256	C	<b>1006.521257</b>	503.764267	<b>989.494708</b>	495.250992			5
7	911.302215	456.154746	894.275666	447.641471	893.291650	447.149463	F	<b>846.490608</b>	423.748942	829.464059	415.235668			4
8	1024.386279	512.696777	1007.359730	504.183503	<b>1006.375714</b>	503.691495	I	<b>699.422194</b>	350.214735	682.395645	341.701461			3
9	<b>1463.611605</b>	732.309441	1446.585056	723.796166	1445.601040	723.304158	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
10							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [CAEENCFIQK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
70.4	1608.709839	-0.003571	<a href="#">CAEENCFIQK</a>
9.2	1608.721085	-0.014817	<a href="#">CNECGKGFAQK</a>
3.7	1608.704941	0.001327	<a href="#">MAEAASGAGGTSLEGER</a>
3.5	1608.723602	-0.017334	<a href="#">CAQAQTGIDLSGCTK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **HQQTVTIPPK**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 35116: 1769.961462 from(590.994430,3+) rtinseconds(1951) index(31478)

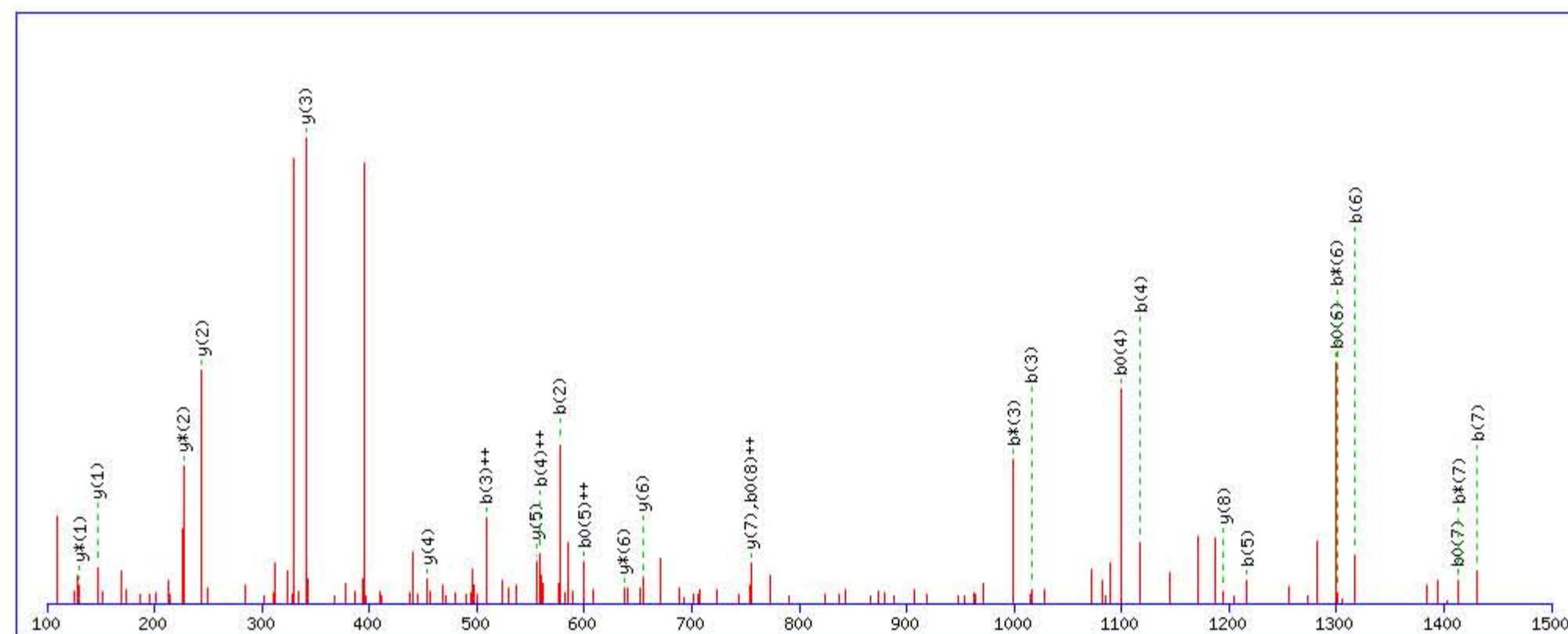
Title: Locus:1.1.1.3343.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1769.968460

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

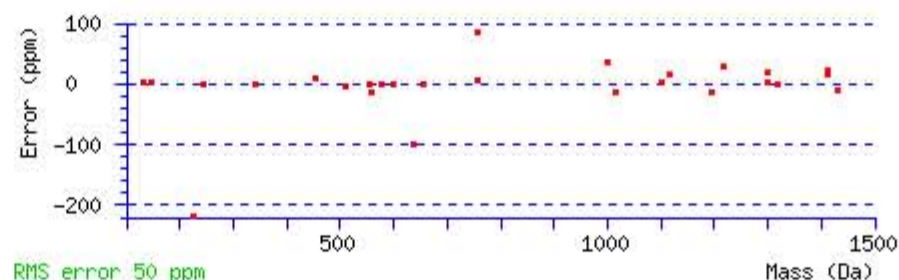
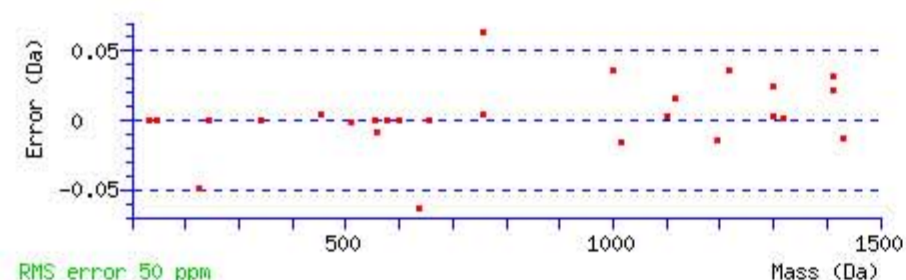
Q2 : Biotin:Thermo-21345 (Q)

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 27 Expect: 0.0031

Matches : 27/92 fragment ions using 67 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							10
2	<b>577.291514</b>	289.149395	560.264965	280.636121			Q	1633.916820	817.462048	1616.890271	808.948774	1615.906255	808.456766	9
3	<b>1016.516840</b>	<b>508.762058</b>	<b>999.490291</b>	500.248784			Q	<b>1194.691494</b>	597.849385	1177.664945	589.336111	1176.680929	588.844103	8
4	<b>1117.564519</b>	<b>559.285898</b>	1100.537970	550.772623	<b>1099.553954</b>	550.280615	T	<b>755.466168</b>	378.236722	738.439619	369.723448	737.455603	369.231440	7
5	<b>1216.632933</b>	608.820105	1199.606384	600.306830	1198.622368	<b>599.814822</b>	V	<b>654.418489</b>	327.712883	<b>637.391940</b>	319.199608	636.407924	318.707600	6
6	<b>1317.680612</b>	659.343944	<b>1300.654063</b>	650.830670	<b>1299.670047</b>	650.338662	T	<b>555.350075</b>	278.178676	538.323526	269.665401	537.339510	269.173393	5
7	<b>1430.764676</b>	715.885976	<b>1413.738127</b>	707.372702	<b>1412.754111</b>	706.880694	I	<b>454.302396</b>	227.654836	437.275847	219.141561			4
8	1527.817440	764.412358	1510.790891	755.899084	1509.806875	<b>755.407076</b>	P	<b>341.218332</b>	171.112804	324.191783	162.599530			3
9	1624.870204	812.938740	1607.843655	804.425466	1606.859639	803.933458	P	<b>244.165568</b>	122.586422	<b>227.139019</b>	114.073148			2
10							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of [HQQTVTIPPK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
27.1	1769.968460	-0.006998	<a href="#">HQQTVTIPPK</a>
0.4	1769.961029	0.000433	<a href="#">WMLSRDRASTLPLPK</a>

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

# MATRIX SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **GQGTL SVVTMYHAK**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 36116: 1817.910462 from(606.977430,3+) rtinseconds(1857) index(30889)

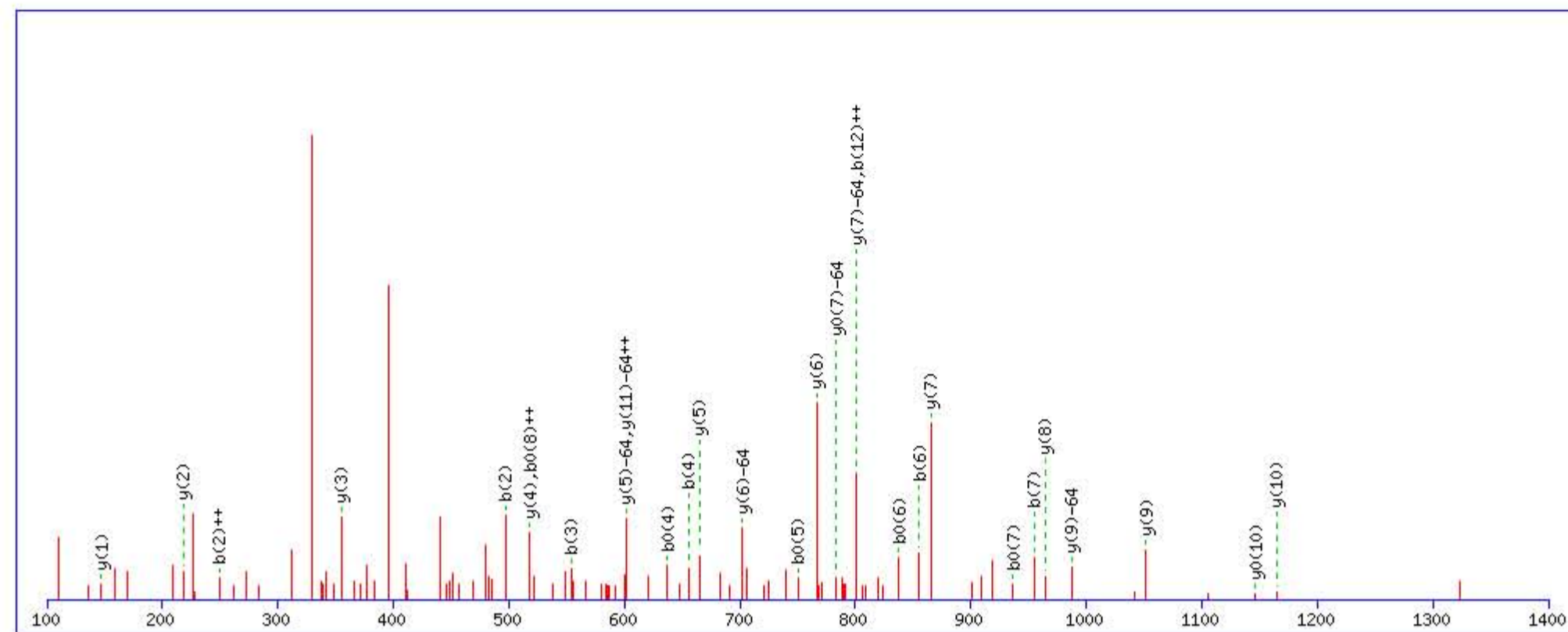
Title: Locus:1.1.1.3310.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1817.916824

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

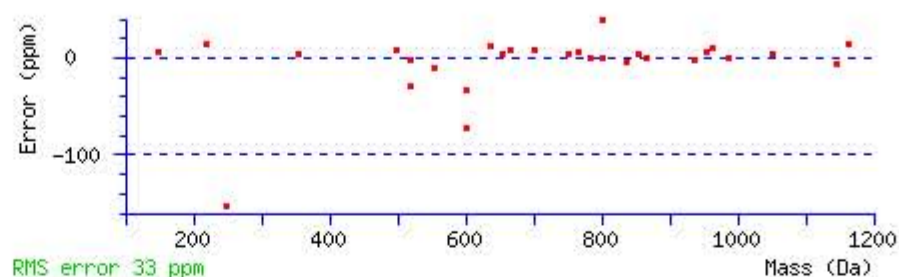
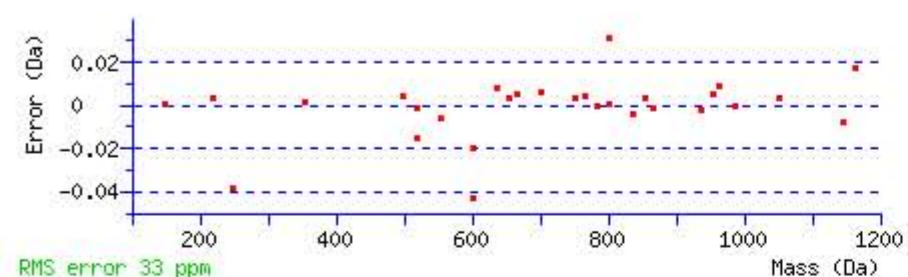
Q2 : Biotin:Thermo-21345 (Q)

M10 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285

Ions Score: 51 Expect: 0.00018

Matches : 29/214 fragment ions using 51 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							14
2	<b>497.254066</b>	<b>249.130671</b>	480.227517	240.617397			Q	1761.902627	881.454952	1744.876078	872.941677	1743.892062	872.449669	13
3	<b>554.275530</b>	277.641403	537.248981	269.128129			G	1322.677301	661.842289	1305.650752	653.329014	1304.666736	652.837006	12
4	<b>655.323209</b>	328.165243	638.296660	319.651968	<b>637.312644</b>	319.159960	T	1265.655837	633.331557	1248.629288	624.818282	1247.645272	624.326274	11
5	768.407273	384.707275	751.380724	376.194000	<b>750.396708</b>	375.701992	L	<b>1164.608158</b>	582.807717	1147.581609	574.294443	<b>1146.597593</b>	573.802435	10
6	<b>855.439301</b>	428.223289	838.412752	419.710014	<b>837.428736</b>	419.218006	S	<b>1051.524094</b>	526.265685	1034.497545	517.752411	1033.513529	517.260403	9
7	<b>954.507715</b>	477.757496	937.481166	469.244221	<b>936.497150</b>	468.752213	V	<b>964.492066</b>	482.749671	947.465517	474.236397	946.481501	473.744389	8
8	1053.576129	527.291703	1036.549580	518.778428	1035.565564	<b>518.286420</b>	V	<b>865.423652</b>	433.215464	848.397103	424.702190	847.413087	424.210182	7
9	1154.623808	577.815542	1137.597259	569.302268	1136.613243	568.810260	T	<b>766.355238</b>	383.681257	749.328689	375.167983	748.344673	374.675975	6
10	1301.659208	651.333242	1284.632659	642.819968	1283.648643	642.327960	M	<b>665.307559</b>	333.157418	648.281010	324.644143			5
11	1464.722537	732.864907	1447.695988	724.351632	1446.711972	723.859624	Y	<b>518.272159</b>	259.639718	501.245610	251.126443			4
12	1601.781449	<b>801.394363</b>	1584.754900	792.881088	1583.770884	792.389080	H	<b>355.208830</b>	178.108053	338.182281	169.594778			3
13	1672.818563	836.912920	1655.792014	828.399645	1654.807998	827.907637	A	<b>218.149918</b>	109.578597	201.123369	101.065322			2
14							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **GQGTL SVVTMYHAK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
51.5	1817.916824	-0.006362	<a href="#">GQGTL SVVTMYHAK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SGSDEVQVGQQR**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 37639: 1910.930052 from(637.983960,3+) rtinseconds(1923) index(31254)

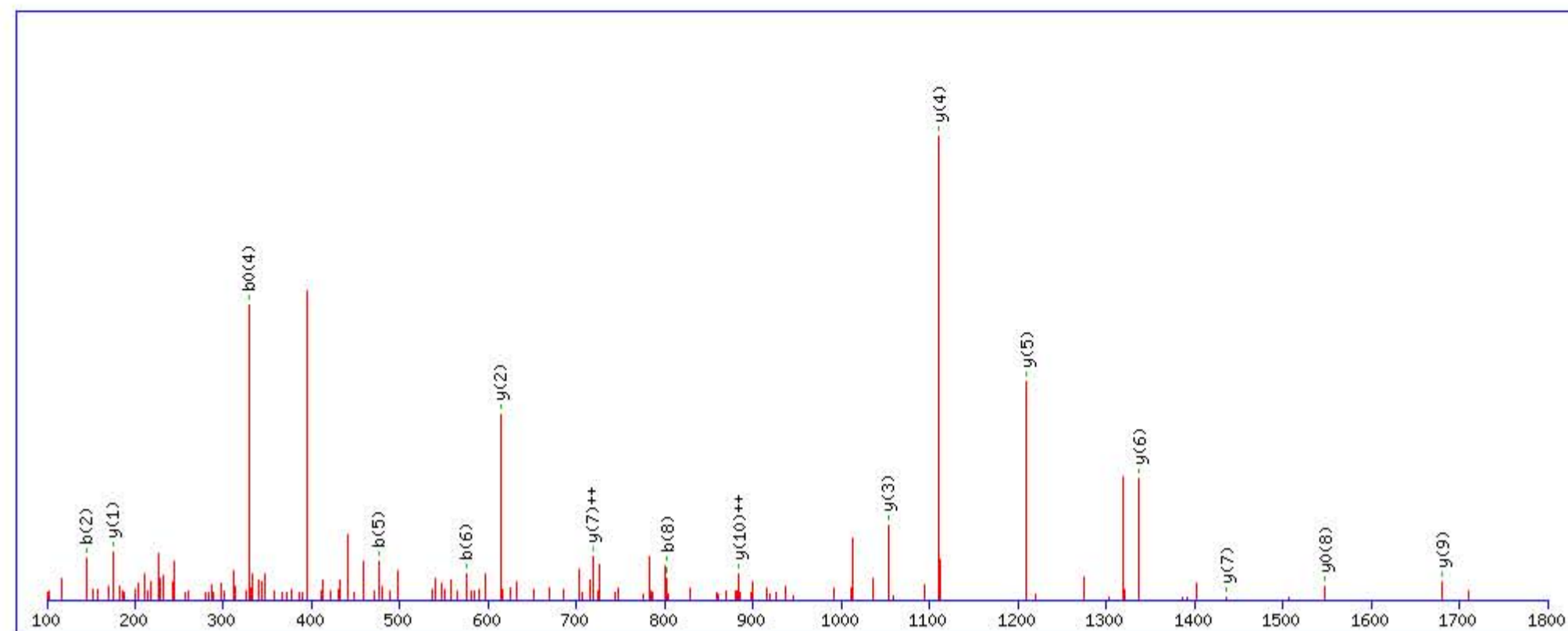
Title: Locus:1.1.1.3333.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1910.934265

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

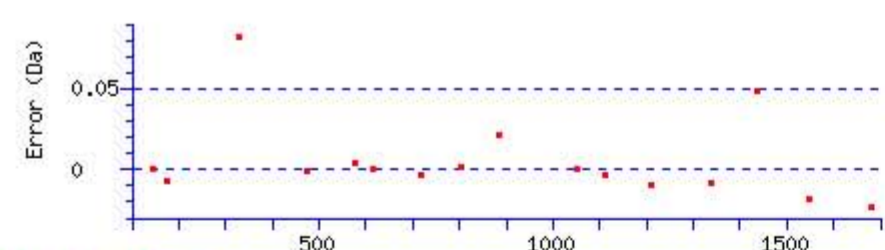
Q10 : Biotin:Thermo-21345 (Q)

Q11 : Biotin:Thermo-21345 (Q)

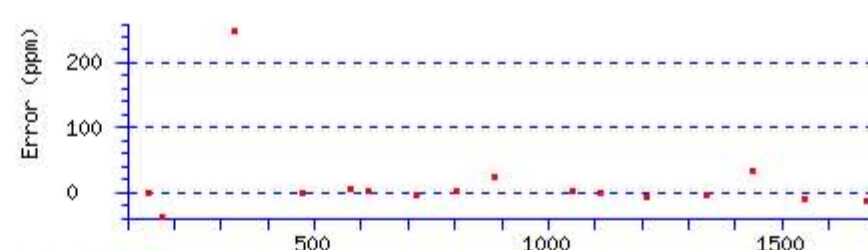
Ions Score: 40 Expect: 0.00083

Matches : 16/106 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							12
2	<b>145.060768</b>	73.034022			127.050203	64.028740	G	1824.909502	912.958389	1807.882953	904.445115	1806.898937	903.953107	11
3	232.092796	116.550036			214.082231	107.544753	S	1767.888038	<b>884.447657</b>	1750.861489	875.934383	1749.877473	875.442375	10
4	347.119739	174.063507			<b>329.109174</b>	165.058225	D	<b>1680.856010</b>	840.931643	1663.829461	832.418369	1662.845445	831.926361	9
5	<b>476.162332</b>	238.584804			458.151767	229.579522	E	1565.829067	783.418172	1548.802518	774.904897	<b>1547.818502</b>	774.412889	8
6	<b>575.230746</b>	288.119011			557.220181	279.113729	V	<b>1436.786474</b>	<b>718.896875</b>	1419.759925	710.383601			7
7	703.289324	352.148300	686.262775	343.635026	685.278759	343.143018	Q	<b>1337.718060</b>	669.362668	1320.691511	660.849394			6
8	<b>802.357738</b>	401.682507	785.331189	393.169233	784.347173	392.677225	V	<b>1209.659482</b>	605.333379	1192.632933	596.820105			5
9	859.379202	430.193239	842.352653	421.679965	841.368637	421.187957	G	<b>1110.591068</b>	555.799172	1093.564519	547.285898			4
10	1298.604528	649.805902	1281.577979	641.292628	1280.593963	640.800620	Q	<b>1053.569604</b>	527.288440	1036.543055	518.775166			3
11	1737.829854	869.418565	1720.803305	860.905291	1719.819289	860.413283	Q	<b>614.344278</b>	307.675777	597.317729	299.162503			2
12							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



RMS error 64 ppm



RMS error 64 ppm

NCBI BLAST search of **SGSDEVQVGQQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
40.1	1910.934265	-0.004213	<a href="#">SGSDEVQVGQQR</a>
12.3	1910.934265	-0.004213	<a href="#">SGSDEVQVGQQR</a>
6.8	1910.958542	-0.028490	<a href="#">TDDYGRDLSSVQILLTK</a>
6.2	1910.934265	-0.004213	<a href="#">SGSDEVQVGQQR</a>
1.9	1910.915619	0.014433	<a href="#">EDSGSGMKAELPPGPGAVGR</a>
0.0	1910.949310	-0.019258	<a href="#">GILSQMGRHSQSRSHSK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **SGSDEVQVGQQR**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 37642: 1910.930802 from(637.984210,3+) rtinseconds(1891) index(31052)

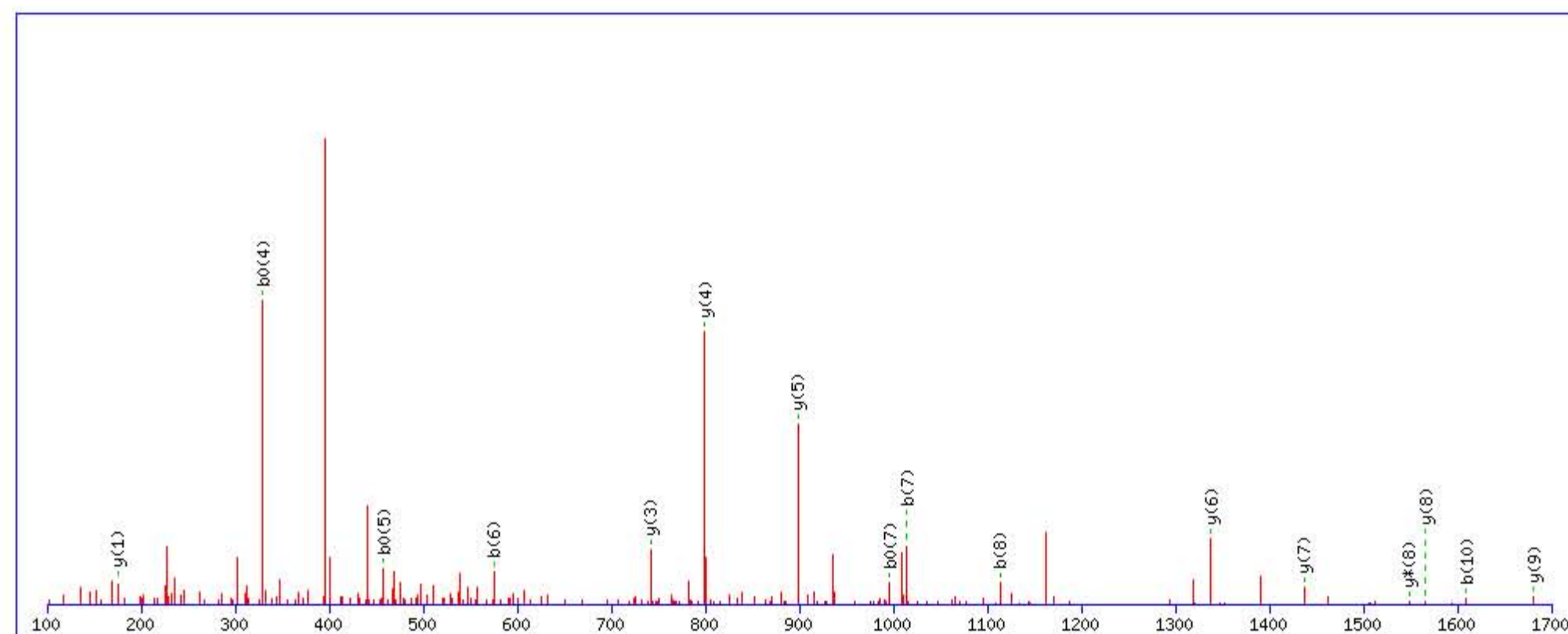
Title: Locus:1.1.1.3322.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1910.934265

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

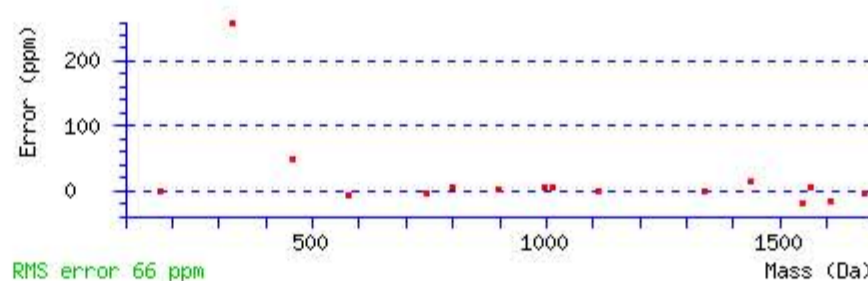
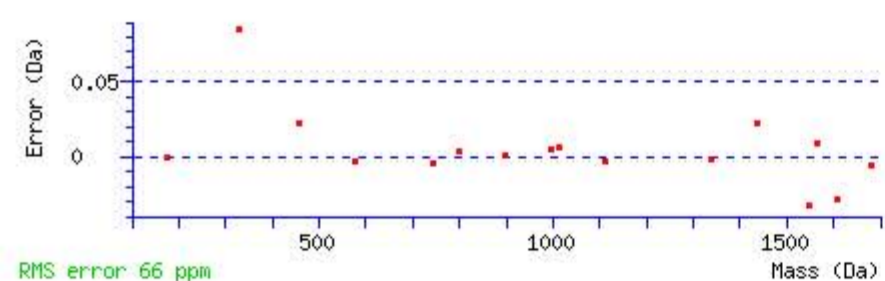
Q7 : Biotin:Thermo-21345 (Q)

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 40 Expect: 0.0021

Matches : 16/106 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							12
2	145.060768	73.034022			127.050203	64.028740	G	1824.909502	912.958389	1807.882953	904.445115	1806.898937	903.953107	11
3	232.092796	116.550036			214.082231	107.544753	S	1767.888038	884.447657	1750.861489	875.934383	1749.877473	875.442375	10
4	347.119739	174.063507			329.109174	165.058225	D	1680.856010	840.931643	1663.829461	832.418369	1662.845445	831.926361	9
5	476.162332	238.584804			458.151767	229.579522	E	1565.829067	783.418172	1548.802518	774.904897	1547.818502	774.412889	8
6	575.230746	288.119011			557.220181	279.113729	V	1436.786474	718.896875	1419.759925	710.383601			7
7	1014.456072	507.731674	997.429523	499.218400	996.445507	498.726392	Q	1337.718060	669.362668	1320.691511	660.849394			6
8	1113.524486	557.265881	1096.497937	548.752607	1095.513921	548.260599	V	898.492734	449.750005	881.466185	441.236731			5
9	1170.545950	585.776613	1153.519401	577.263339	1152.535385	576.771330	G	799.424320	400.215798	782.397771	391.702524			4
10	1609.771276	805.389276	1592.744727	796.876002	1591.760711	796.383994	Q	742.402856	371.705066	725.376307	363.191792			3
11	1737.829854	869.418565	1720.803305	860.905291	1719.819289	860.413283	Q	303.177530	152.092403	286.150981	143.579129			2
12							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SGSDEVQVGQQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
40.4	1910.934265	-0.003463	<a href="#">SGSDEVQVGQQR</a>
38.6	1910.934265	-0.003463	<a href="#">SGSDEVQVGQQR</a>
32.7	1910.938263	-0.007461	<a href="#">YVTSAPMPEPQAPGR</a>
1.6	1910.934265	-0.003463	<a href="#">SGSDEVQVGQQR</a>



MASCOT SCIENCE Mascot Search Results

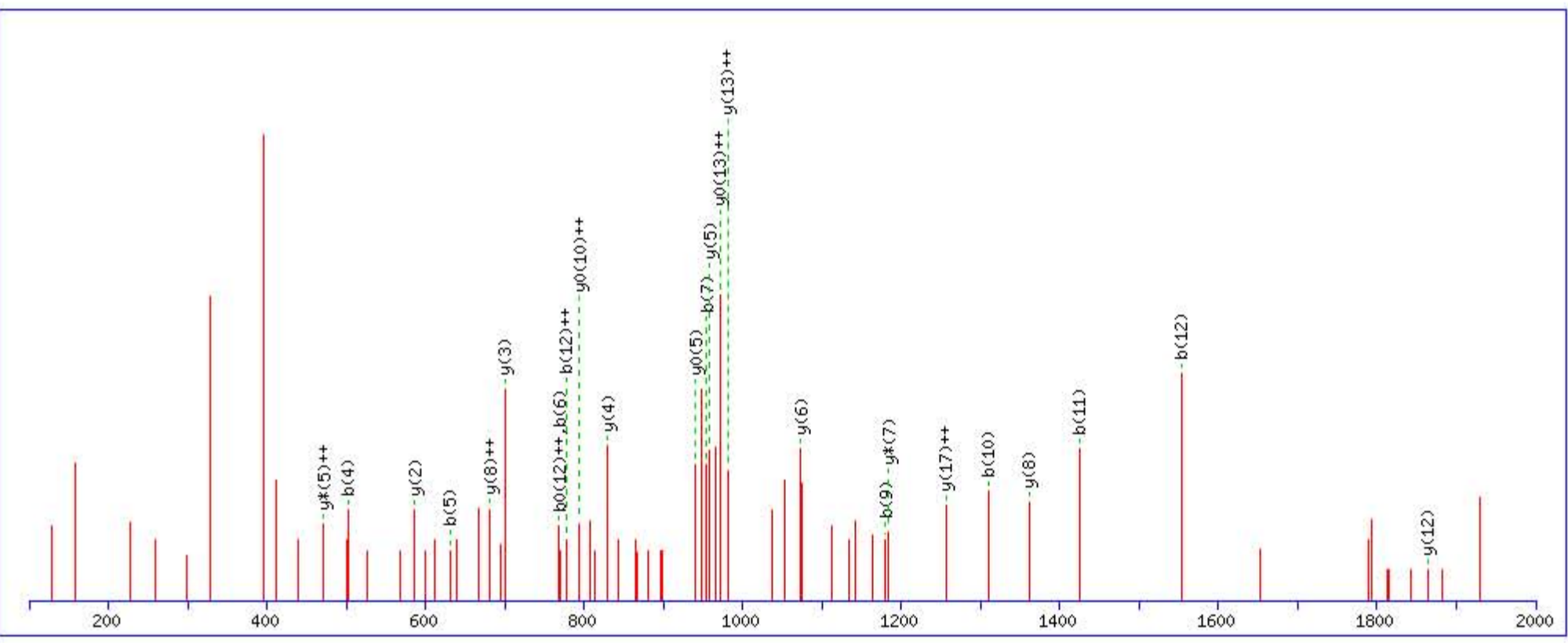
Peptide View

MS/MS Fragmentation of DTWVEHWPEEDECQDEENQK
Found in CO3\_HUMAN, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 38202: 2913.174372 from(972.065400,3+) rtinseconds(2137) index(46828)
Title: Locus:1.1.1.3456.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"
Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

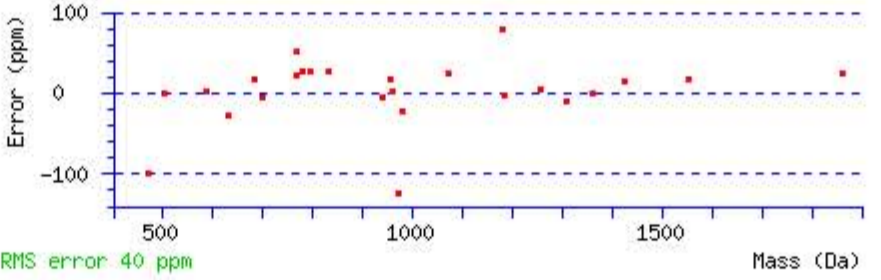
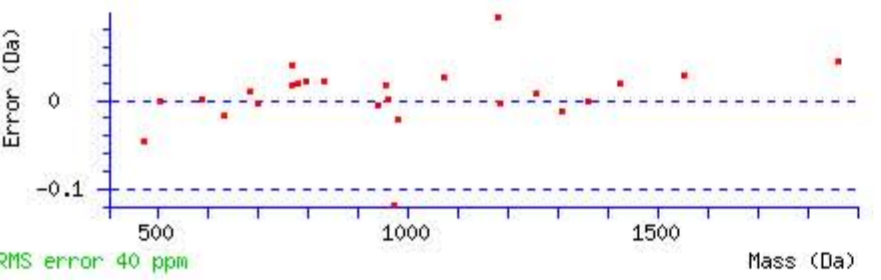
Click mouse within plot area to zoom in by factor of two about that point
Or, Plot from 100 to 2000 Da Full range

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2913.185776
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)
Variable modifications: Q19 : Biotin:Thermo-21345 (Q)
Ions Score: 28 Expect: 0.012
Matches : 25/196 fragment ions using 68 most intense peaks (help)

Table with 14 columns: #, b, b++, b\*, b\*+, b0, b0++, Seq., y, y++, y\*, y\*+, y0, y0+, #. It lists fragmentation ions and their corresponding masses and sequences.



NCBI BLAST search of DTWVEHWPEEDECQDEENQK
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)
Other BLAST web gateways

All matches to this query

Table with 4 columns: Score, Mr(calc):, Delta, Sequence. It shows the top two matches for the query.

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

















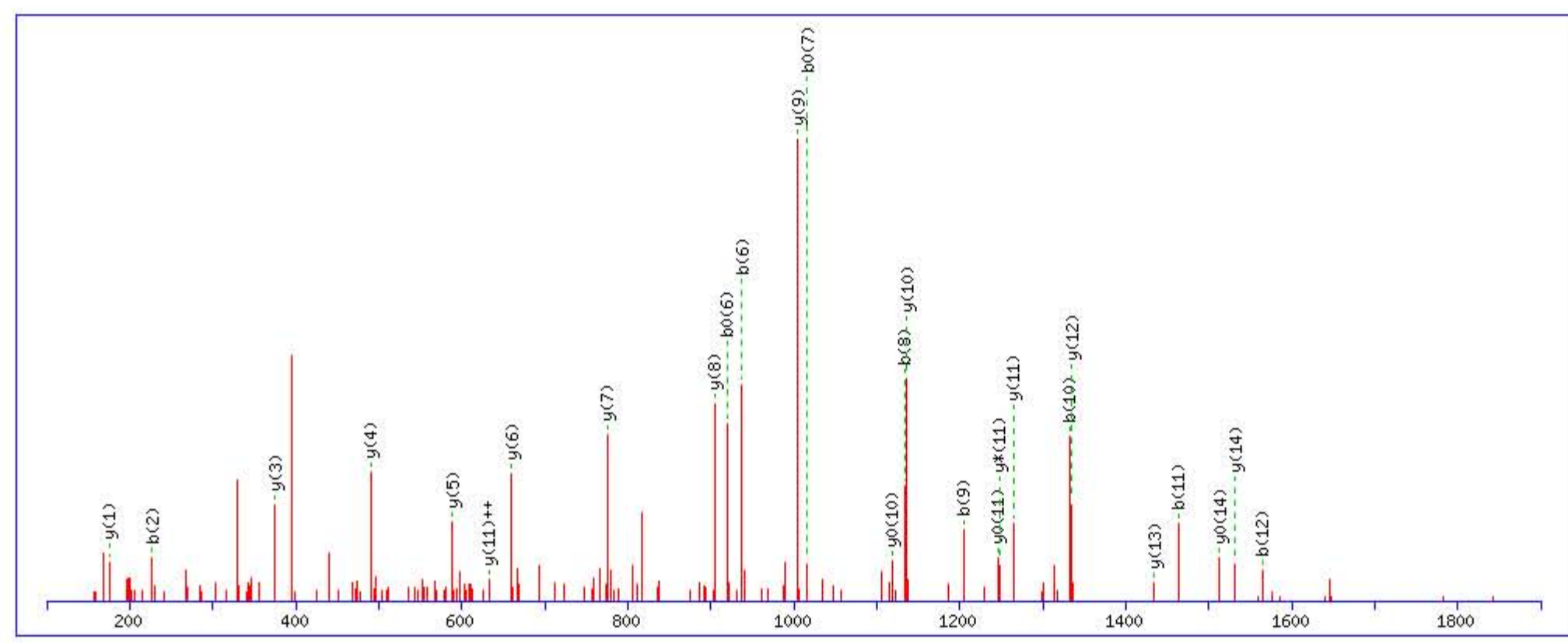
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **ILLQGPVAQMTEDAVDAER**  
 Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

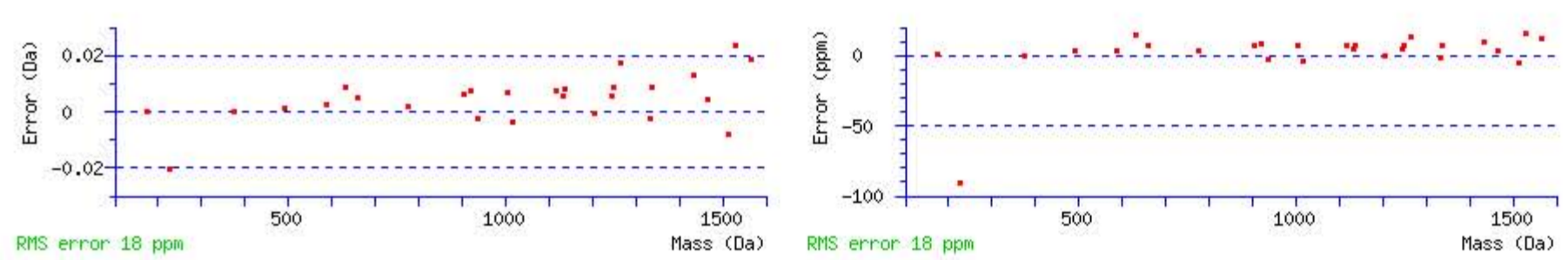
Match to Query 47631: 2467.246122 from(823.422650,3+) rtinseconds(2688) index(35730)  
 Title: Locus:1.1.1.3599.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2467.245071  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q4 : Biotin:Thermo-21345 (Q)  
 Ions Score: 82 Expect: 1.9e-007  
 Matches : 27/210 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							20
2	<b>227.175404</b>	114.091340					L	2355.168297	1178.087786	2338.141748	1169.574512	2337.157732	1169.082504	19
3	340.259468	170.633372					L	2242.084233	1121.545754	2225.057684	1113.032480	2224.073668	1112.540472	18
4	779.484794	390.246035	762.458245	381.732760			Q	2129.000169	1065.003722	2111.973620	1056.490448	2110.989604	1055.998440	17
5	836.506258	418.756767	819.479709	410.243493			G	1689.774843	845.391060	1672.748294	836.877785	1671.764278	836.385777	16
6	<b>937.553937</b>	469.280607	920.527388	460.767332	<b>919.543372</b>	460.275324	T	1632.753379	816.880328	1615.726830	808.367053	1614.742814	807.875045	15
7	1034.606701	517.806988	1017.580152	509.293714	<b>1016.596136</b>	508.801706	P	<b>1531.705700</b>	766.356488	1514.679151	757.843214	<b>1513.695135</b>	757.351206	14
8	<b>1133.675115</b>	567.341196	1116.648566	558.827921	1115.664550	558.335913	V	<b>1434.652936</b>	717.830106	1417.626387	709.316832	1416.642371	708.824824	13
9	<b>1204.712229</b>	602.859753	1187.685680	594.346478	1186.701664	593.854470	A	<b>1335.584522</b>	668.295899	1318.557973	659.782625	1317.573957	659.290617	12
10	<b>1332.770807</b>	666.889042	1315.744258	658.375767	1314.760242	657.883759	Q	<b>1264.547408</b>	<b>632.777342</b>	<b>1247.520859</b>	624.264068	<b>1246.536843</b>	623.772060	11
11	<b>1463.811292</b>	732.409284	1446.784743	723.896010	1445.800727	723.404002	M	<b>1136.488830</b>	568.748053	1119.462281	560.234779	<b>1118.478265</b>	559.742771	10
12	<b>1564.858971</b>	782.933124	1547.832422	774.419849	1546.848406	773.927841	T	<b>1005.448345</b>	503.227811	988.421796	494.714536	987.437780	494.222528	9
13	1693.901564	847.454420	1676.875015	838.941146	1675.890999	838.449138	E	<b>904.400666</b>	452.703971	887.374117	444.190697	886.390101	443.698689	8
14	1808.928507	904.967892	1791.901958	896.454617	1790.917942	895.962609	D	<b>775.358073</b>	388.182675	758.331524	379.669400	757.347508	379.177392	7
15	1879.965621	940.486449	1862.939072	931.973174	1861.955056	931.481166	A	<b>660.331130</b>	330.669203	643.304581	322.155929	642.320565	321.663921	6
16	1979.034035	990.020656	1962.007486	981.507381	1961.023470	981.015373	V	<b>589.294016</b>	295.150646	572.267467	286.637372	571.283451	286.145364	5
17	2094.060978	1047.534127	2077.034429	1039.020852	2076.050413	1038.528844	D	<b>490.225602</b>	245.616439	473.199053	237.103165	472.215037	236.611157	4
18	2165.098092	1083.052684	2148.071543	1074.539409	2147.087527	1074.047402	A	<b>375.198659</b>	188.102968	358.172110	179.589693	357.188094	179.097685	3
19	2294.140685	1147.573981	2277.114136	1139.060706	2276.130120	1138.568698	E	304.161545	152.584411	287.134996	144.071136	286.150980	143.579128	2
20							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [ILLQGPVAQMTEDAVDAER](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
82.2	2467.245071	0.001051	<a href="#">ILLQGPVAQMTEDAVDAER</a>
53.6	2467.245071	0.001051	<a href="#">ILLQGPVAQMTEDAVDAER</a>

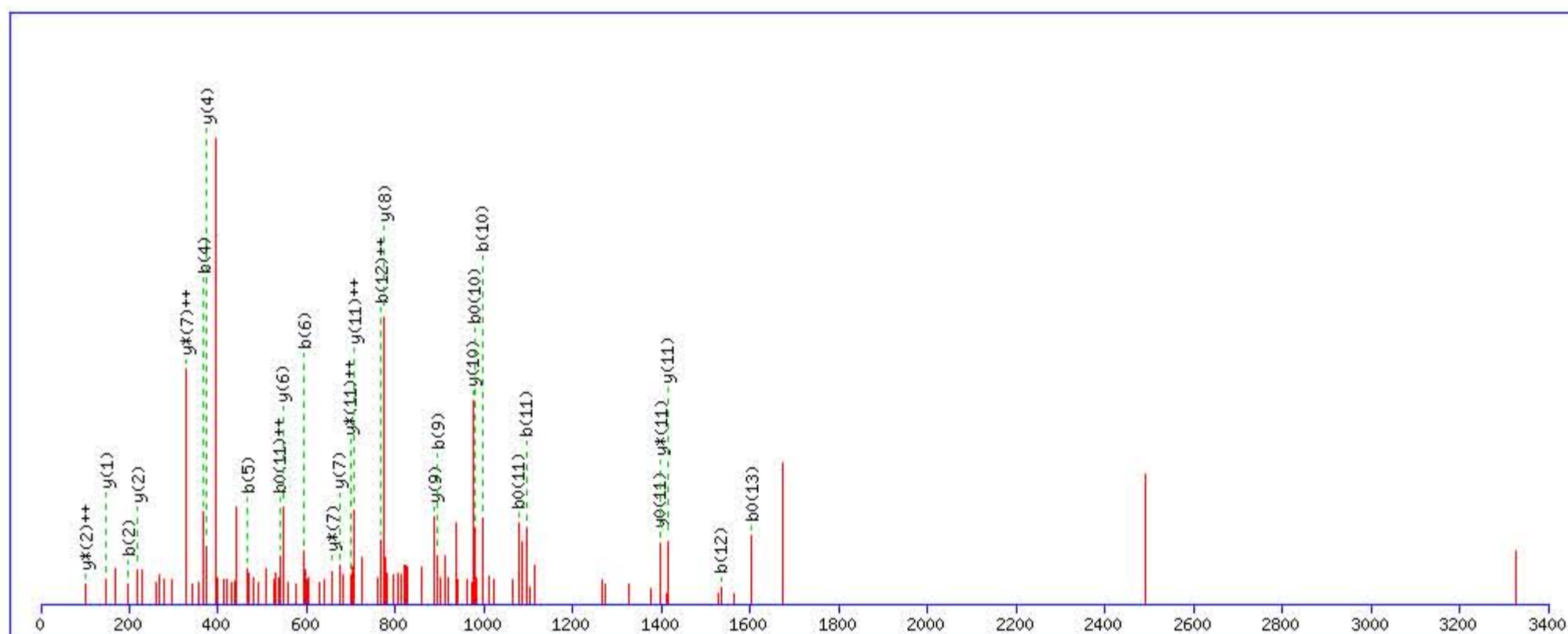
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VPVAVQGEDTVQSLTQGDGVAK**  
Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

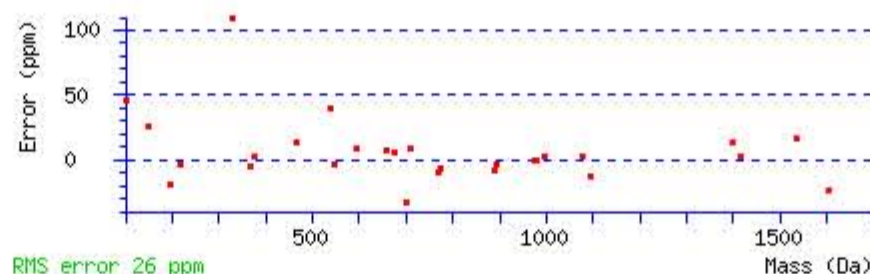
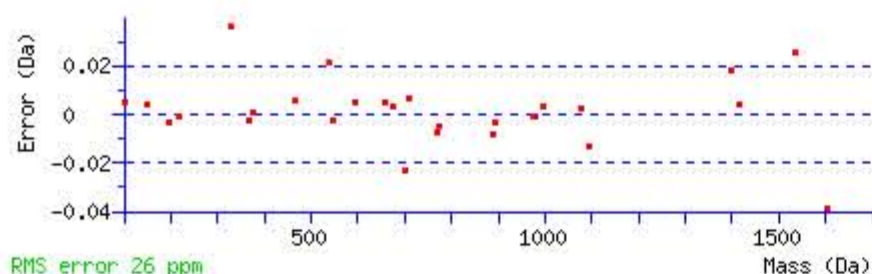
Match to Query 48626: 2508.279582 from(837.100470,3+) rtinseconds(2255) index(47589)  
Title: Locus:1.1.1.3497.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
Or, Plot from  to  Da   
Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2508.289429  
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
Variable modifications: Q12 : Biotin:Thermo-21345 (Q)  
Ions Score: 52 Expect: 0.00018  
Matches : 29/220 fragment ions using 59 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							22
2	<b>197.128454</b>	99.067865					P	2410.228255	1205.617765	2393.201706	1197.104491	2392.217690	1196.612483	21
3	296.196868	148.602072					V	2313.175491	1157.091383	2296.148942	1148.578109	2295.164926	1148.086101	20
4	<b>367.233982</b>	184.120629					A	2214.107077	1107.557176	2197.080528	1099.043902	2196.096512	1098.551894	19
5	<b>466.302396</b>	233.654836					V	2143.069963	1072.038619	2126.043414	1063.525345	2125.059398	1063.033337	18
6	<b>594.360974</b>	297.684125	577.334425	289.170851			Q	2044.001549	1022.504413	2026.975000	1013.991138	2025.990984	1013.499130	17
7	651.382438	326.194857	634.355889	317.681583			G	1915.942971	958.475124	1898.916422	949.961849	1897.932406	949.469841	16
8	780.425031	390.716154	763.398482	382.202879	762.414466	381.710871	E	1858.921507	929.964391	1841.894958	921.451117	1840.910942	920.959109	15
9	<b>895.451974</b>	448.229625	878.425425	439.716351	877.441409	439.224343	D	1729.878914	865.443095	1712.852365	856.929821	1711.868349	856.437812	14
10	<b>996.499653</b>	498.753465	979.473104	490.240190	<b>978.489088</b>	489.748182	T	1614.851971	807.929623	1597.825422	799.416349	1596.841406	798.924341	13
11	<b>1095.568067</b>	548.287672	1078.541518	539.774397	<b>1077.557502</b>	<b>539.282389</b>	V	1513.804292	757.405784	1496.777743	748.892510	1495.793727	748.400502	12
12	<b>1534.793393</b>	<b>767.900335</b>	1517.766844	759.387060	1516.782828	758.895052	Q	<b>1414.735878</b>	<b>707.871577</b>	<b>1397.709329</b>	<b>699.358303</b>	<b>1396.725313</b>	698.866294	11
13	1621.825421	811.416349	1604.798872	802.903074	<b>1603.814856</b>	802.411066	S	<b>975.510552</b>	488.258914	958.484003	479.745639	957.499987	479.253631	10
14	1734.909485	867.958381	1717.882936	859.445106	1716.898920	858.953098	L	<b>888.478524</b>	444.742900	871.451975	436.229625	870.467959	435.737617	9
15	1835.957164	918.482220	1818.930615	909.968946	1817.946599	909.476938	T	<b>775.394460</b>	388.200868	758.367911	379.687593	757.383895	379.195585	8
16	1964.015742	982.511509	1946.989193	973.998235	1946.005177	973.506227	Q	<b>674.346781</b>	337.677029	<b>657.320232</b>	<b>329.163754</b>	656.336216	328.671746	7
17	2021.037206	1011.022241	2004.010657	1002.508967	2003.026641	1002.016959	G	<b>546.288203</b>	273.647739	529.261654	265.134465	528.277638	264.642457	6
18	2136.064149	1068.535712	2119.037600	1060.022438	2118.053584	1059.530430	D	489.266739	245.137007	472.240190	236.623733	471.256174	236.131725	5
19	2193.085613	1097.046444	2176.059064	1088.533170	2175.075048	1088.041162	G	<b>374.239796</b>	187.623536	357.213247	179.110261			4
20	2292.154027	1146.580651	2275.127478	1138.067377	2274.143462	1137.575369	V	317.218332	159.112804	300.191783	150.599530			3
21	2363.191141	1182.099208	2346.164592	1173.585934	2345.180576	1173.093926	A	<b>218.149918</b>	109.578597	201.123369	<b>101.065323</b>			2
22							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VPVAVQGEDTVQSLTQGDGVAK**  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
Other BLAST [web gateways](#)

### All matches to this query

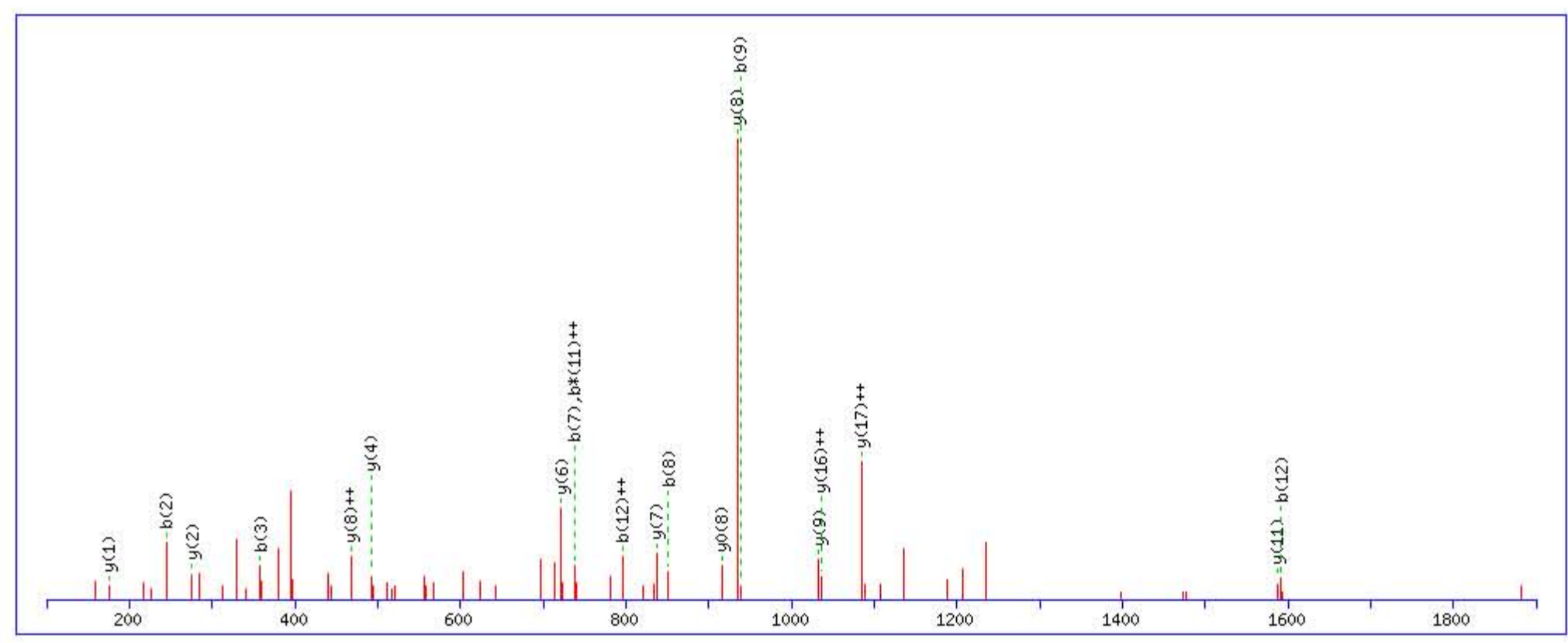
Score	Mr(calc):	Delta	Sequence
52.0	2508.289429	-0.009847	<a href="#">VPVAVQGEDTVQSLTQGDGVAK</a>
25.2	2508.289429	-0.009847	<a href="#">VPVAVQGEDTVQSLTQGDGVAK</a>
24.7	2508.289429	-0.009847	<a href="#">VPVAVQGEDTVQSLTQGDGVAK</a>

**Peptide View**

MS/MS Fragmentation of **EDIPPADLSDQVPDTESETR**  
 Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

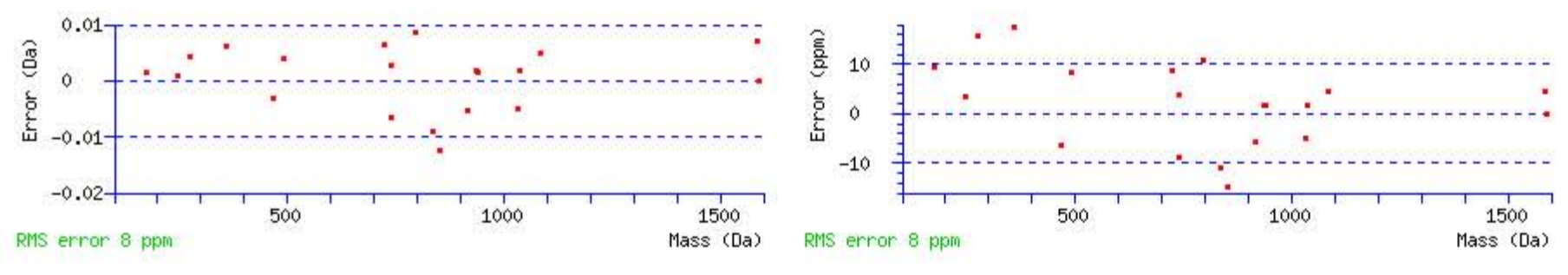
Match to Query 48808: 2524.161852 from(842.394560,3+) rtinseconds(2222) index(33168)  
 Title: Locus:1.1.1.3437.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from 100 to 1900 Da Full range  
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2524.163910  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q11 : Biotin:Thermo-21345 (Q)  
 Ions Score: 32 Expect: 0.0071  
 Matches : 20/206 fragment ions using 48 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							20
2	<b>245.076812</b>	123.042044			227.066247	114.036762	D	2396.128598	1198.567937	2379.102049	1190.054662	2378.118033	1189.562654	19
3	<b>358.160876</b>	179.584076			340.150311	170.578794	I	2281.101655	1141.054465	2264.075106	1132.541191	2263.091090	1132.049183	18
4	455.213640	228.110458			437.203075	219.105176	P	2168.017591	<b>1084.512433</b>	2150.991042	1075.999159	2150.007026	1075.507151	17
5	552.266404	276.636840			534.255839	267.631558	P	2070.964827	<b>1035.986051</b>	2053.938278	1027.472777	2052.954262	1026.980769	16
6	623.303518	312.155397			605.292953	303.150115	A	1973.912063	987.459670	1956.885514	978.946395	1955.901498	978.454387	15
7	<b>738.330461</b>	369.668869			720.319896	360.663586	D	1902.874949	951.941113	1885.848400	943.427838	1884.864384	942.935830	14
8	<b>851.414525</b>	426.210901			833.403960	417.205618	L	1787.848006	894.427641	1770.821457	885.914367	1769.837441	885.422359	13
9	<b>938.446553</b>	469.726915			920.435988	460.721632	S	1674.763942	837.885609	1657.737393	829.372335	1656.753377	828.880327	12
10	1053.473496	527.240386			1035.462931	518.235104	D	<b>1587.731914</b>	794.369595	1570.705365	785.856321	1569.721349	785.364313	11
11	1492.698822	746.853049	1475.672273	<b>738.339775</b>	1474.688257	737.847767	Q	1472.704971	736.856124	1455.678422	728.342849	1454.694406	727.850841	10
12	<b>1591.767236</b>	<b>796.387256</b>	1574.740687	787.873982	1573.756671	787.381974	V	<b>1033.479645</b>	517.243461	1016.453096	508.730186	1015.469080	508.238178	9
13	1688.820000	844.913638	1671.793451	836.400364	1670.809435	835.908356	P	<b>934.411231</b>	<b>467.709254</b>	917.384682	459.195979	<b>916.400666</b>	458.703971	8
14	1803.846943	902.427110	1786.820394	893.913835	1785.836378	893.421827	D	<b>837.358467</b>	419.182872	820.331918	410.669597	819.347902	410.177589	7
15	1904.894622	952.950949	1887.868073	944.437675	1886.884057	943.945667	T	<b>722.331524</b>	361.669400	705.304975	353.156125	704.320959	352.664117	6
16	2033.937215	1017.472246	2016.910666	1008.958971	2015.926650	1008.466963	E	621.283845	311.145560	604.257296	302.632286	603.273280	302.140278	5
17	2120.969243	1060.988259	2103.942694	1052.474985	2102.958678	1051.982977	S	<b>492.241252</b>	246.624264	475.214703	238.110989	474.230687	237.618981	4
18	2250.011836	1125.509556	2232.985287	1116.996281	2232.001271	1116.504274	E	405.209224	203.108250	388.182675	194.594975	387.198659	194.102967	3
19	2351.059515	1176.033395	2334.032966	1167.520121	2333.048950	1167.028113	T	<b>276.166631</b>	138.586953	259.140082	130.073679	258.156066	129.581671	2
20							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **EDIPPADLSDQVPDTESETR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
32.5	2524.163910	-0.002058	<b>EDIPPADLSDQVPDTESETR</b>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VQLSNDFDEYIMAEQTIK**

Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

Match to Query 49151: 2567.260932 from(856.760920,3+) rtinseconds(3286) index(39655)

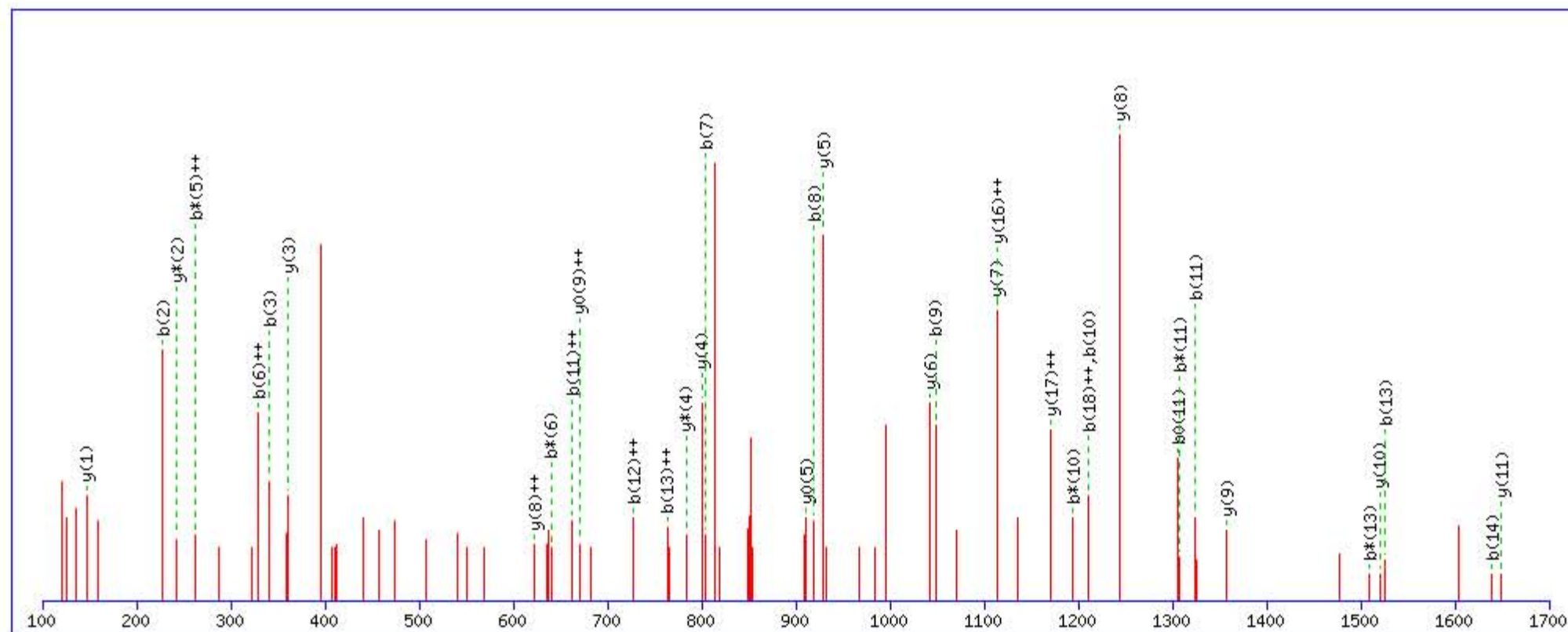
Title: Locus:1.1.1.3802.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 100 to 1700 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2567.265121

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

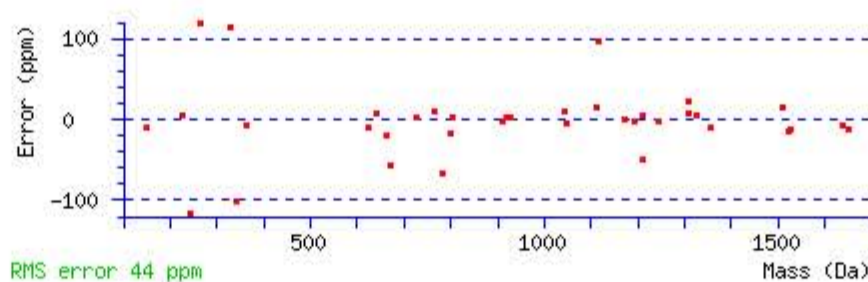
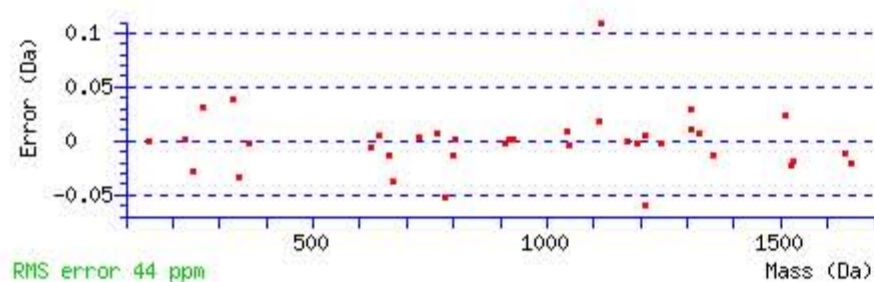
Variable modifications:

Q16 : Biotin:Thermo-21345 (Q)

Ions Score: 49 Expect: 2.8e-005

Matches : 37/204 fragment ions using 69 most intense peaks (help)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							19
2	<b>228.134268</b>	114.570772	211.107719	106.057498			Q	2469.204012	1235.105644	2452.177463	1226.592369	2451.193447	1226.100361	18
3	<b>341.218332</b>	171.112804	324.191783	162.599530			L	2341.145434	<b>1171.076355</b>	2324.118885	1162.563080	2323.134869	1162.071072	17
4	428.250360	214.628818	411.223811	206.115544	410.239795	205.623536	S	2228.061370	<b>1114.534323</b>	2211.034821	1106.021048	2210.050805	1105.529040	16
5	542.293287	271.650282	525.266738	<b>263.137007</b>	524.282722	262.644999	N	2141.029342	1071.018309	2124.002793	1062.505034	2123.018777	1062.013026	15
6	657.320230	<b>329.163753</b>	<b>640.293681</b>	320.650479	639.309665	320.158471	D	2026.986415	1013.996845	2009.959866	1005.483571	2008.975850	1004.991563	14
7	<b>804.388644</b>	402.697960	787.362095	394.184686	786.378079	393.692678	F	1911.959472	956.483374	1894.932923	947.970099	1893.948907	947.478091	13
8	<b>919.415587</b>	460.211432	902.389038	451.698157	901.405022	451.206149	D	1764.891058	882.949167	1747.864509	874.435893	1746.880493	873.943884	12
9	<b>1048.458180</b>	524.732728	1031.431631	516.219453	1030.447615	515.727445	E	<b>1649.864115</b>	825.435695	1632.837566	816.922421	1631.853550	816.430413	11
10	<b>1211.521509</b>	606.264392	<b>1194.494960</b>	597.751118	1193.510944	597.259110	Y	<b>1520.821522</b>	760.914399	1503.794973	752.401125	1502.810957	751.909116	10
11	<b>1324.605573</b>	<b>662.806424</b>	<b>1307.579024</b>	654.293150	<b>1306.595008</b>	653.801142	I	<b>1357.758193</b>	679.382734	1340.731644	670.869460	1339.747628	<b>670.377452</b>	9
12	1455.646058	<b>728.326667</b>	1438.619509	719.813392	1437.635493	719.321384	M	<b>1244.674129</b>	<b>622.840703</b>	1227.647580	614.327428	1226.663564	613.835420	8
13	<b>1526.683172</b>	<b>763.845224</b>	<b>1509.656623</b>	755.331949	1508.672607	754.839941	A	<b>1113.633644</b>	557.320460	1096.607095	548.807186	1095.623079	548.315178	7
14	<b>1639.767236</b>	820.387256	1622.740687	811.873981	1621.756671	811.381973	I	<b>1042.596530</b>	521.801903	1025.569981	513.288629	1024.585965	512.796621	6
15	1768.809829	884.908552	1751.783280	876.395278	1750.799264	875.903270	E	<b>929.512466</b>	465.259871	912.485917	456.746597	<b>911.501901</b>	456.254589	5
16	2208.035155	1104.521215	2191.008606	1096.007941	2190.024590	1095.515933	Q	<b>800.469873</b>	400.738575	<b>783.443324</b>	392.225300	782.459308	391.733292	4
17	2309.082834	1155.045055	2292.056285	1146.531780	2291.072269	1146.039772	T	<b>361.244547</b>	181.125911	344.217998	172.612637	343.233982	172.120629	3
18	2422.166898	<b>1211.587087</b>	2405.140349	1203.073812	2404.156333	1202.581804	I	260.196868	130.602072	<b>243.170319</b>	122.088798			2
19							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VQLSNDFDEYIMAEQTIK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
49.2	2567.265121	-0.004189	<a href="#">VQLSNDFDEYIMAEQTIK</a>
0.7	2567.264923	-0.003991	<a href="#">IQSDLTSHEISLEEMKKHNQGK</a>

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





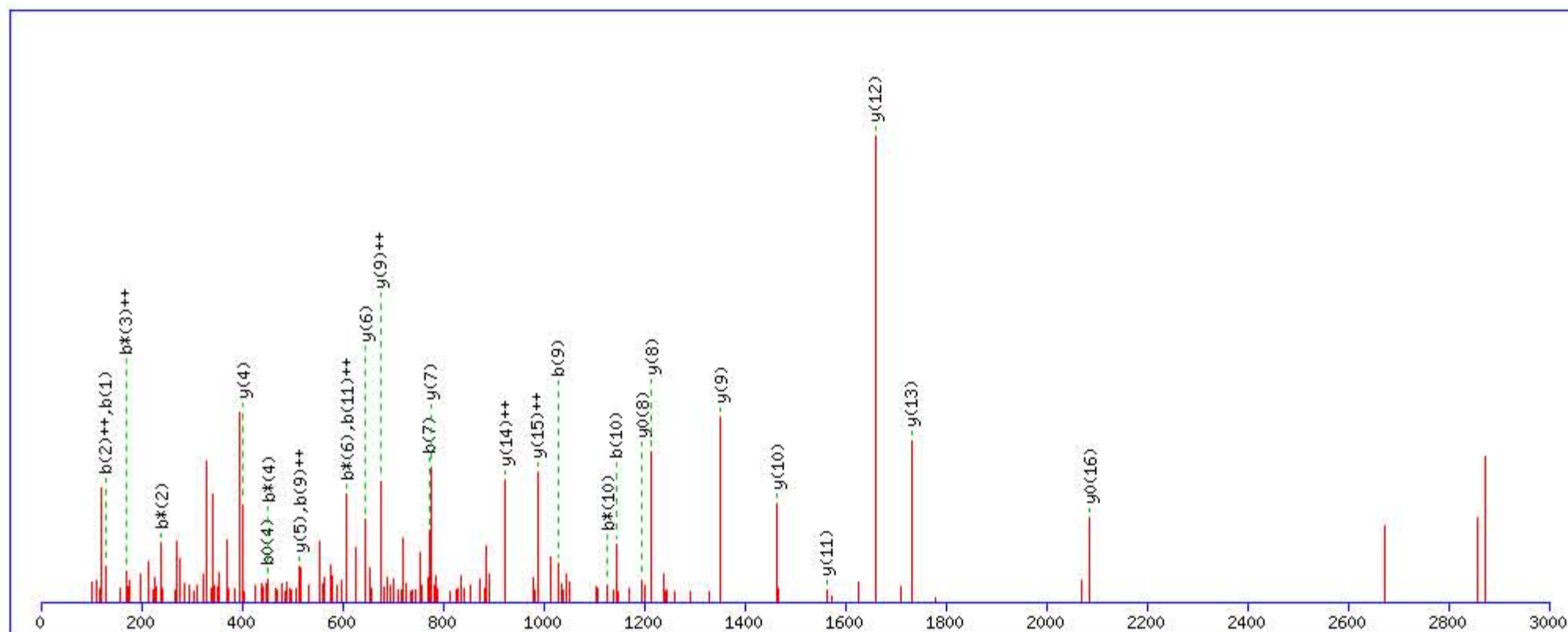
**Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **QKPDGVFQEDAPVIHQEMIGGLR**  
 Found in **CO3\_HUMAN**, Complement C3 OS=Homo sapiens GN=C3 PE=1 SV=2

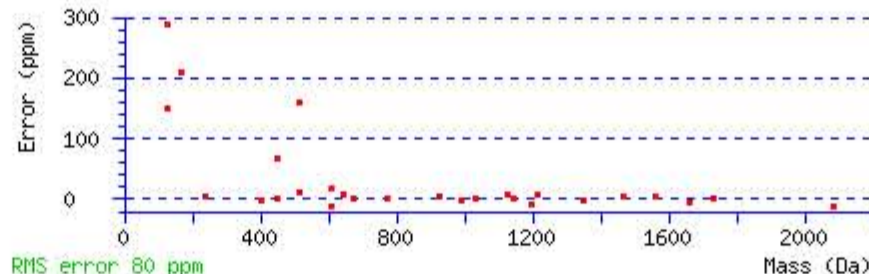
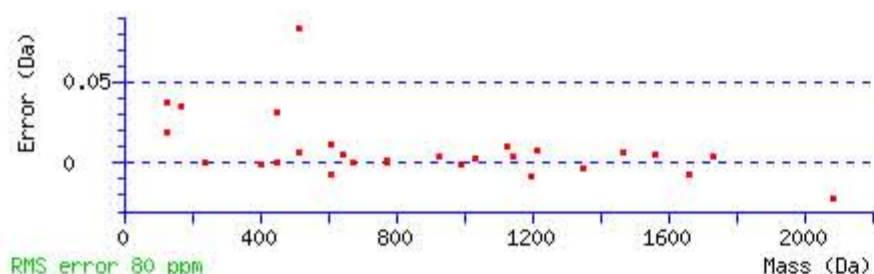
Match to Query 52772: 2874.446696 from(719.618950,4+) rtinseconds(2248) index(33349)  
 Title: Locus:1.1.1.3446.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2874.452057  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications: Q16 : Biotin:Thermo-21345 (Q)  
 Ions Score: 43 Expect: 0.0014  
 Matches : 28/246 fragment ions using 51 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.065854	65.036565	112.039305	56.523291			Q							23
2	257.160817	129.084047	240.134268	120.570772			K	2747.400756	1374.204016	2730.374207	1365.690741	2729.390191	1365.198733	22
3	354.213581	177.610429	337.187032	169.097154			P	2619.305793	1310.156534	2602.279244	1301.643260	2601.295228	1301.151252	21
4	469.240524	235.123900	452.213975	226.610626	451.229959	226.118618	D	2522.253029	1261.630152	2505.226480	1253.116878	2504.242464	1252.624870	20
5	526.261988	263.634632	509.235439	255.121358	508.251423	254.629350	G	2407.226086	1204.116681	2390.199537	1195.603406	2389.215521	1195.111398	19
6	625.330402	313.168839	608.303853	304.655565	607.319837	304.163557	V	2350.204622	1175.605949	2333.178073	1167.092674	2332.194057	1166.600666	18
7	772.398816	386.703046	755.372267	378.189772	754.388251	377.697764	F	2251.136208	1126.071742	2234.109659	1117.558467	2233.125643	1117.066459	17
8	900.457394	450.732335	883.430845	442.219061	882.446829	441.727053	Q	2104.067794	1052.537535	2087.041245	1044.024260	2086.057229	1043.532252	16
9	1029.499987	515.253631	1012.473438	506.740357	1011.489422	506.248349	E	1976.009216	988.508246	1958.982667	979.994972	1957.998651	979.502964	15
10	1144.526930	572.767103	1127.500381	564.253829	1126.516365	563.761821	D	1846.966623	923.986950	1829.940074	915.473675	1828.956058	914.981667	14
11	1215.564044	608.285660	1198.537495	599.772386	1197.553479	599.280377	A	1731.939680	866.473478	1714.913131	857.960204	1713.929115	857.468196	13
12	1312.616808	656.812042	1295.590259	648.298768	1294.606243	647.806760	P	1660.902566	830.954921	1643.876017	822.441647	1642.892001	821.949639	12
13	1411.685222	706.346249	1394.658673	697.832975	1393.674657	697.340967	V	1563.849802	782.428539	1546.823253	773.915265	1545.839237	773.423257	11
14	1524.769286	762.888281	1507.742737	754.375007	1506.758721	753.882998	I	1464.781388	732.894332	1447.754839	724.381058	1446.770823	723.889050	10
15	1661.828198	831.417737	1644.801649	822.904463	1643.817633	822.412454	H	1351.697324	676.352300	1334.670775	667.839026	1333.686759	667.347018	9
16	2101.053524	1051.030400	2084.026975	1042.517125	2083.042959	1042.025117	Q	1214.638412	607.822844	1197.611863	599.309570	1196.627847	598.817562	8
17	2230.096117	1115.551696	2213.069568	1107.038422	2212.085552	1106.546414	E	775.413086	388.210181	758.386537	379.696907	757.402521	379.204899	7
18	2361.136602	1181.071939	2344.110053	1172.558664	2343.126037	1172.066656	M	646.370493	323.688885	629.343944	315.175610			6
19	2474.220666	1237.613971	2457.194117	1229.100696	2456.210101	1228.608689	I	515.330008	258.168642	498.303459	249.655368			5
20	2531.242130	1266.124703	2514.215581	1257.611428	2513.231565	1257.119420	G	402.245944	201.626610	385.219395	193.113335			4
21	2588.263594	1294.635435	2571.237045	1286.122160	2570.253029	1285.630152	G	345.224480	173.115878	328.197931	164.602603			3
22	2701.347658	1351.177467	2684.321109	1342.664192	2683.337093	1342.172185	L	288.203016	144.605146	271.176467	136.091872			2
23							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **QKPDGVFQEDAPVIHQEMIGGLR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
43.3	2874.452057	-0.005361	<a href="#">QKPDGVFQEDAPVIHQEMIGGLR</a>
3.0	2874.452057	-0.005361	<a href="#">QKPDGVFQEDAPVIHQEMIGGLR</a>

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **GQAGLQR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 12627: 1039.550328 from(520.782440,2+) rtinseconds(1460) index(42646)

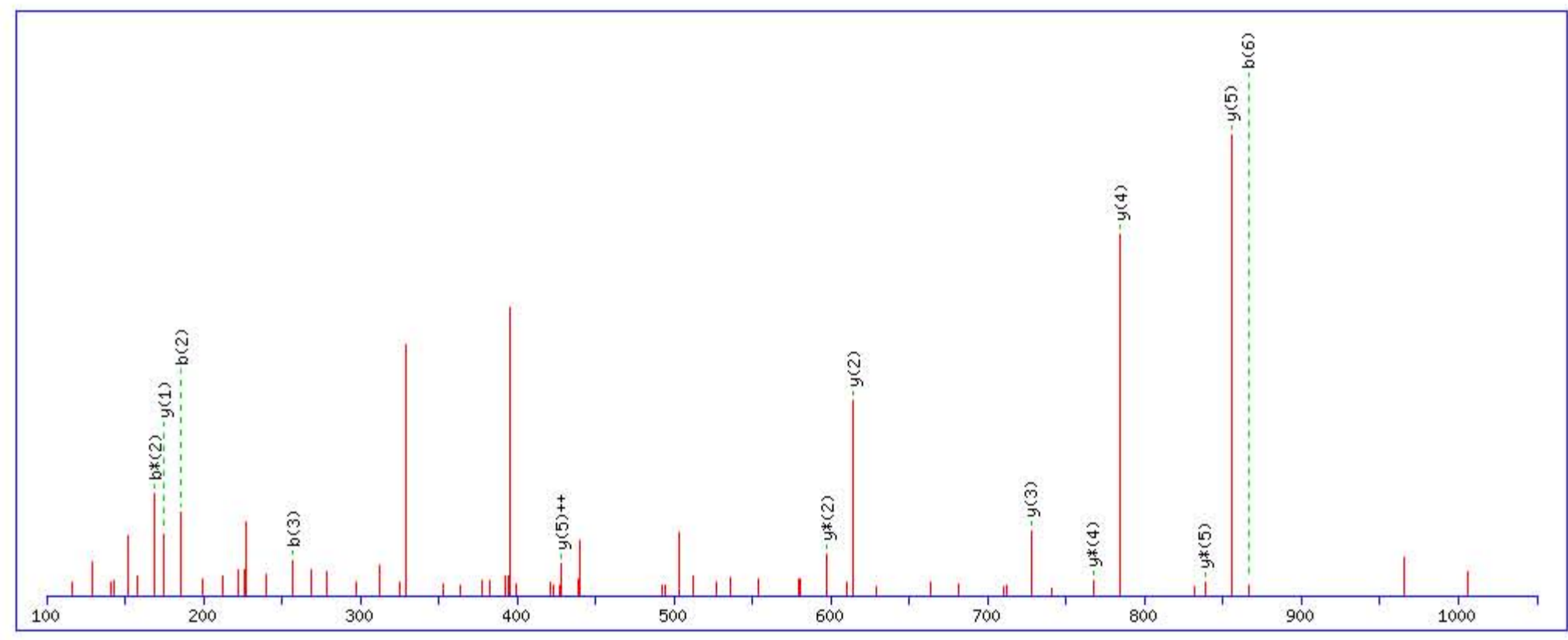
Title: Locus:1.1.1.3221.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1039.559677

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

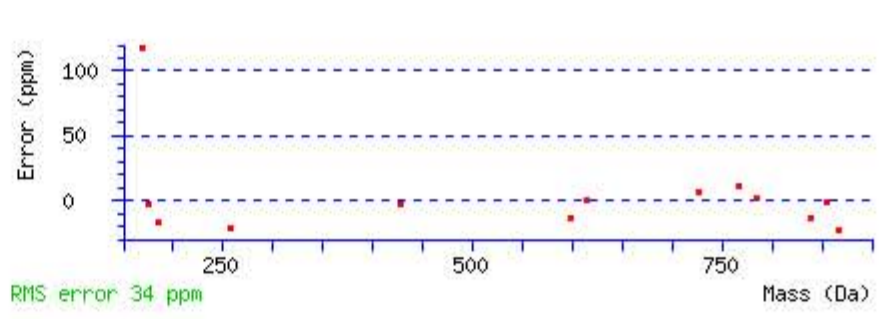
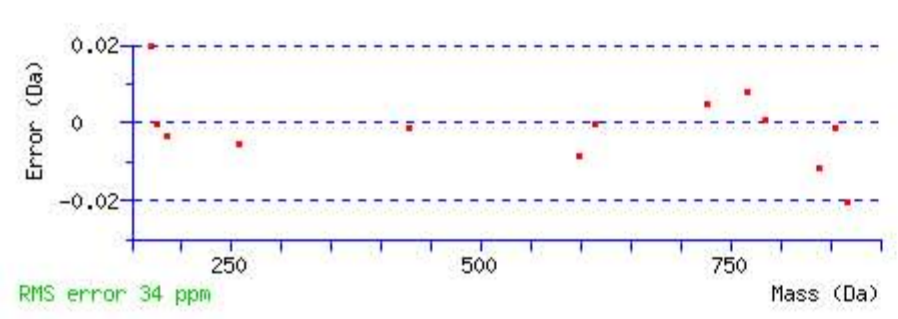
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 27 Expect: 0.028

Matches : 13/46 fragment ions using 26 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	58.028740	29.518008			<b>G</b>					7
2	<b>186.087318</b>	93.547297	<b>169.060769</b>	85.034023	<b>Q</b>	983.545498	492.276387	966.518949	483.763113	6
3	<b>257.124432</b>	129.065854	240.097883	120.552580	<b>A</b>	<b>855.486920</b>	<b>428.247098</b>	<b>838.460371</b>	419.733824	5
4	314.145896	157.576586	297.119347	149.063312	<b>G</b>	<b>784.449806</b>	392.728541	<b>767.423257</b>	384.215267	4
5	427.229960	214.118618	410.203411	205.605344	<b>L</b>	<b>727.428342</b>	364.217809	710.401793	355.704535	3
6	<b>866.455286</b>	433.731281	849.428737	425.218007	<b>Q</b>	<b>614.344278</b>	307.675777	<b>597.317729</b>	299.162503	2
7					<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549840	1



NCBI BLAST search of **GQAGLQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
26.9	1039.559677	-0.009349	<a href="#">GQAGLQR</a>
14.2	1039.559677	-0.009349	<a href="#">GQQIQR</a>
10.9	1039.541061	0.009267	<a href="#">GQGDLLQPGR</a>
7.0	1039.559677	-0.009349	<a href="#">KGGPSQR</a>
6.8	1039.541046	0.009282	<a href="#">NATTAPNPVR</a>
5.3	1039.552277	-0.001949	<a href="#">GQPQELGRR</a>
4.3	1039.552277	-0.001949	<a href="#">QRAALDGGPR</a>
1.8	1039.563492	-0.013164	<a href="#">AEGARARGPR</a>
1.8	1039.563492	-0.013164	<a href="#">SSHLRERR</a>
1.5	1039.541061	0.009267	<a href="#">AGVTTPAPGNR</a>



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **AAANQMR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 13331: 1071.528988 from(536.771770,2+) rtinseconds(1406) index(42337)

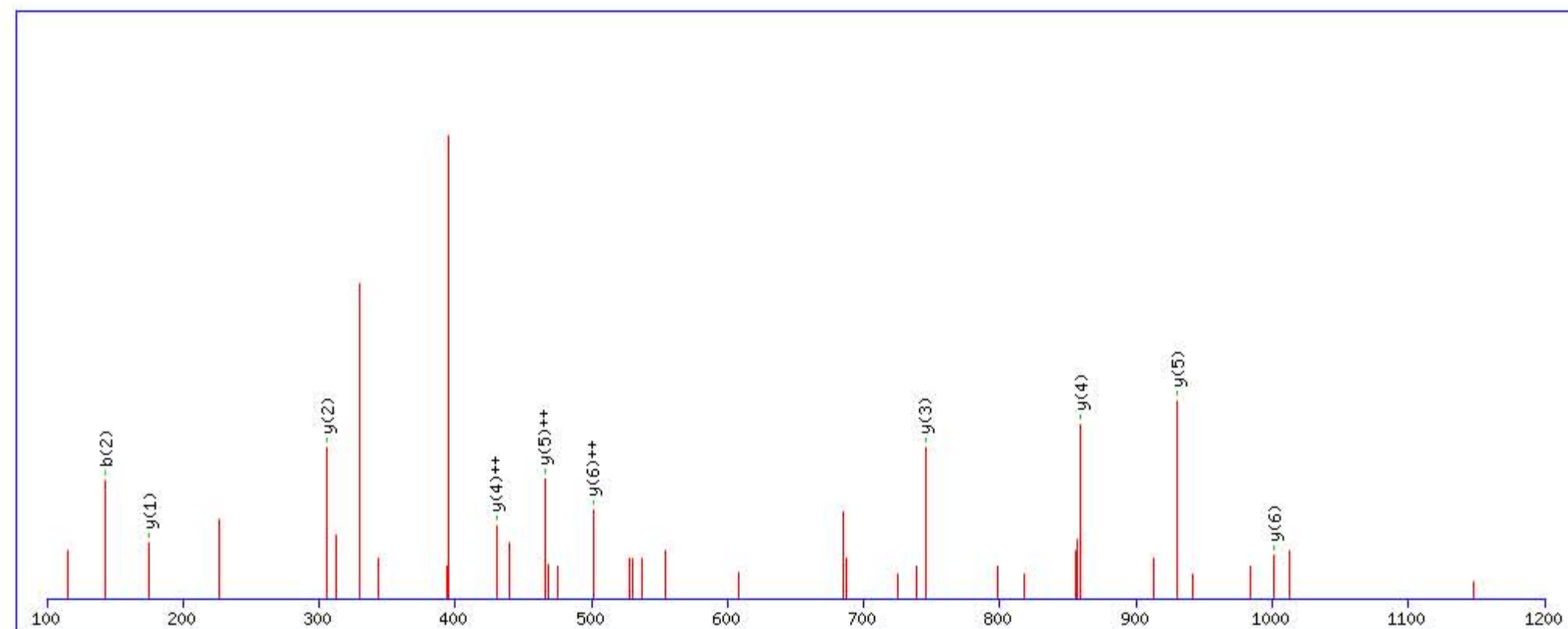
Title: Locus:1.1.1.3202.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1071.531723

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

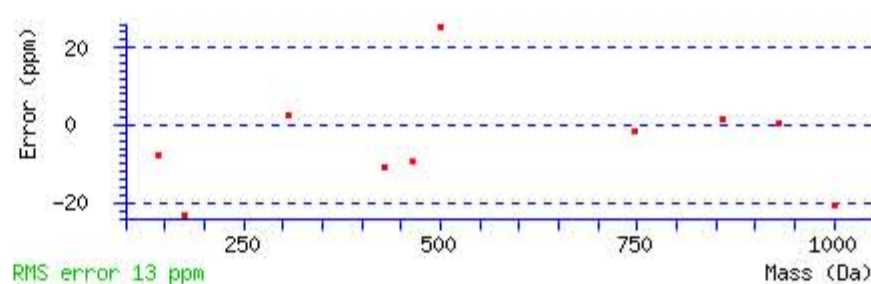
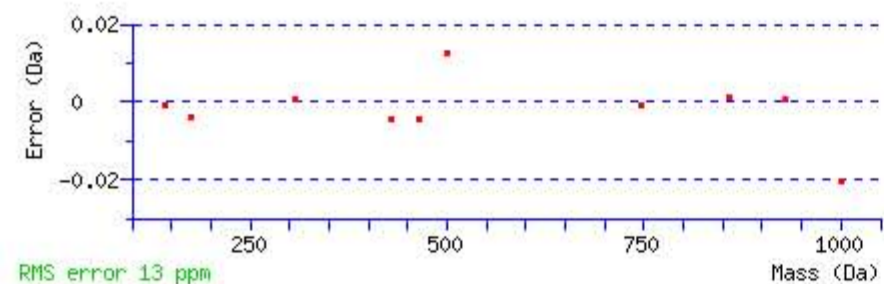
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 29 Expect: 0.024

Matches : 10/42 fragment ions using 26 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	72.044390	36.525833			A					7
2	143.081504	72.044390			A	1001.501918	501.254597	984.475369	492.741323	6
3	214.118618	107.562947			A	930.464804	465.736040	913.438255	457.222766	5
4	328.161545	164.584410	311.134996	156.071136	N	859.427690	430.217483	842.401141	421.704209	4
5	767.386871	384.197074	750.360322	375.683799	Q	745.384763	373.196020	728.358214	364.682745	3
6	898.427356	449.717316	881.400807	441.204042	M	306.159437	153.583357	289.132888	145.070082	2
7					R	175.118952	88.063114	158.092403	79.549840	1



NCBI BLAST search of [AAANQMR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
28.6	1071.531723	-0.002735	<a href="#">AAANQMR</a>
15.9	1071.530853	-0.001865	<a href="#">AAEESGAKGPR</a>
5.4	1071.519608	0.009380	<a href="#">AAESAEIEPR</a>
5.4	1071.539597	-0.010609	<a href="#">HHLIEHMR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VQQPDCR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 17990: 1212.569008 from(607.291780,2+) rtinseconds(1327) index(41941)

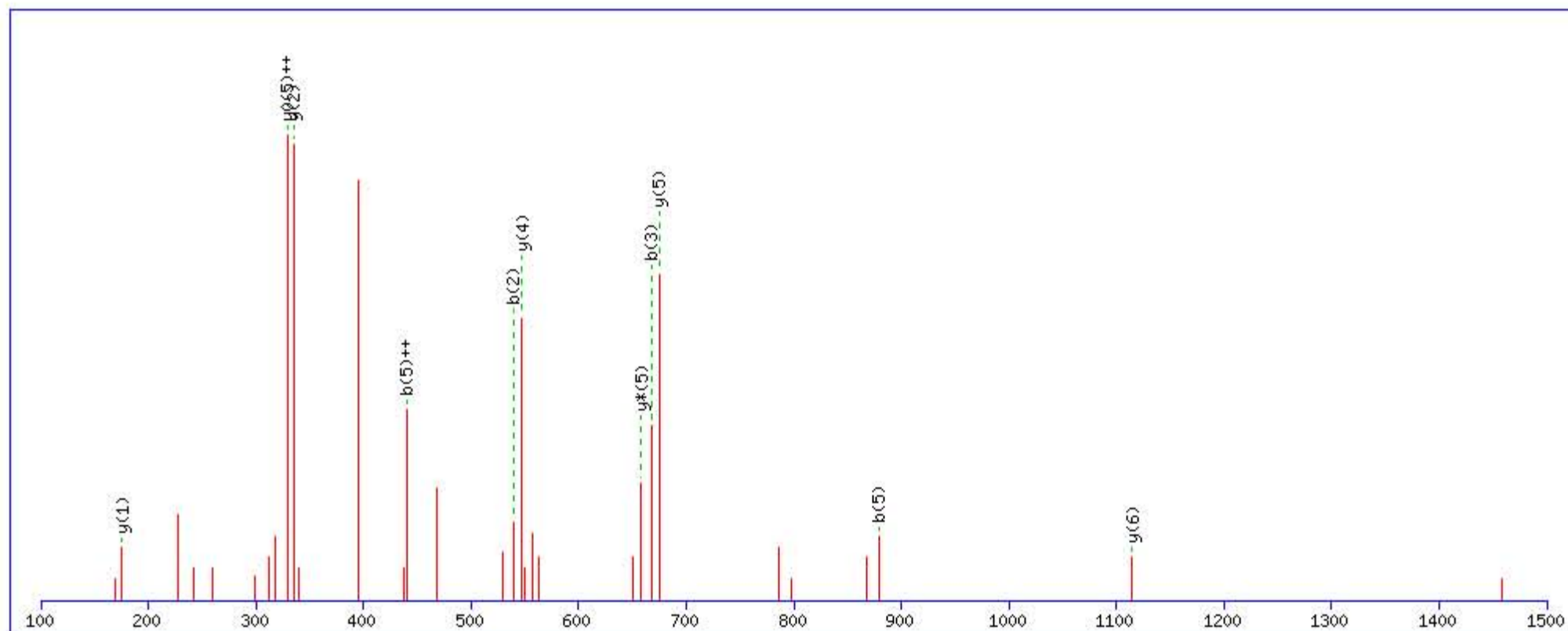
Title: Locus:1.1.1.3174.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1212.574356

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

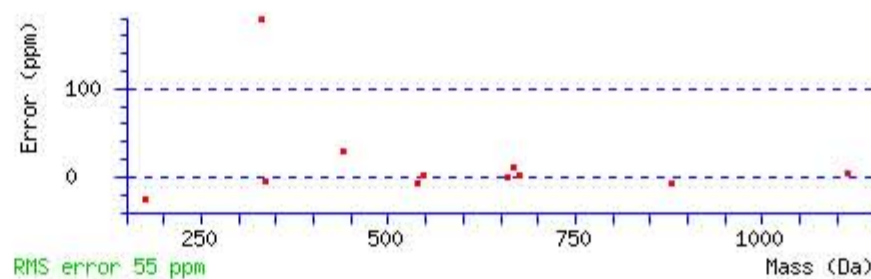
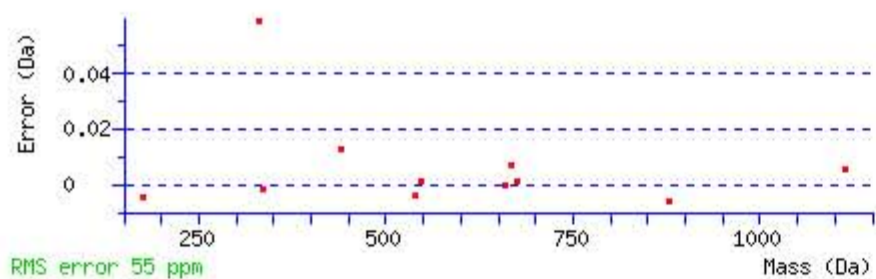
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 35 Expect: 0.00063

Matches : 11/58 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							7
2	<b>539.301016</b>	270.154146	522.274467	261.640872			Q	<b>1114.513212</b>	557.760244	1097.486663	549.246970	1096.502647	548.754962	6
3	<b>667.359594</b>	334.183435	650.333045	325.670161			Q	<b>675.287886</b>	338.147581	<b>658.261337</b>	329.634307	657.277321	<b>329.142299</b>	5
4	764.412358	382.709817	747.385809	374.196543			P	<b>547.229308</b>	274.118292	530.202759	265.605018	529.218743	265.113010	4
5	<b>879.439301</b>	<b>440.223289</b>	862.412752	431.710014	861.428736	431.218006	D	450.176544	225.591910	433.149995	217.078635	432.165979	216.586627	3
6	1039.469950	520.238613	1022.443401	511.725339	1021.459385	511.233331	C	<b>335.149601</b>	168.078438	318.123052	159.565164			2
7							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VQQPDCR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
34.8	1212.574356	-0.005348	<a href="#">VQQPDCR</a>
15.7	1212.574356	-0.005348	<a href="#">VQQPDCR</a>
0.7	1212.582199	-0.013191	<a href="#">GRMPPSEFHR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **VEYGFQVK**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 19793: 1279.659568 from(640.837060,2+) rtinseconds(2000) index(31887)

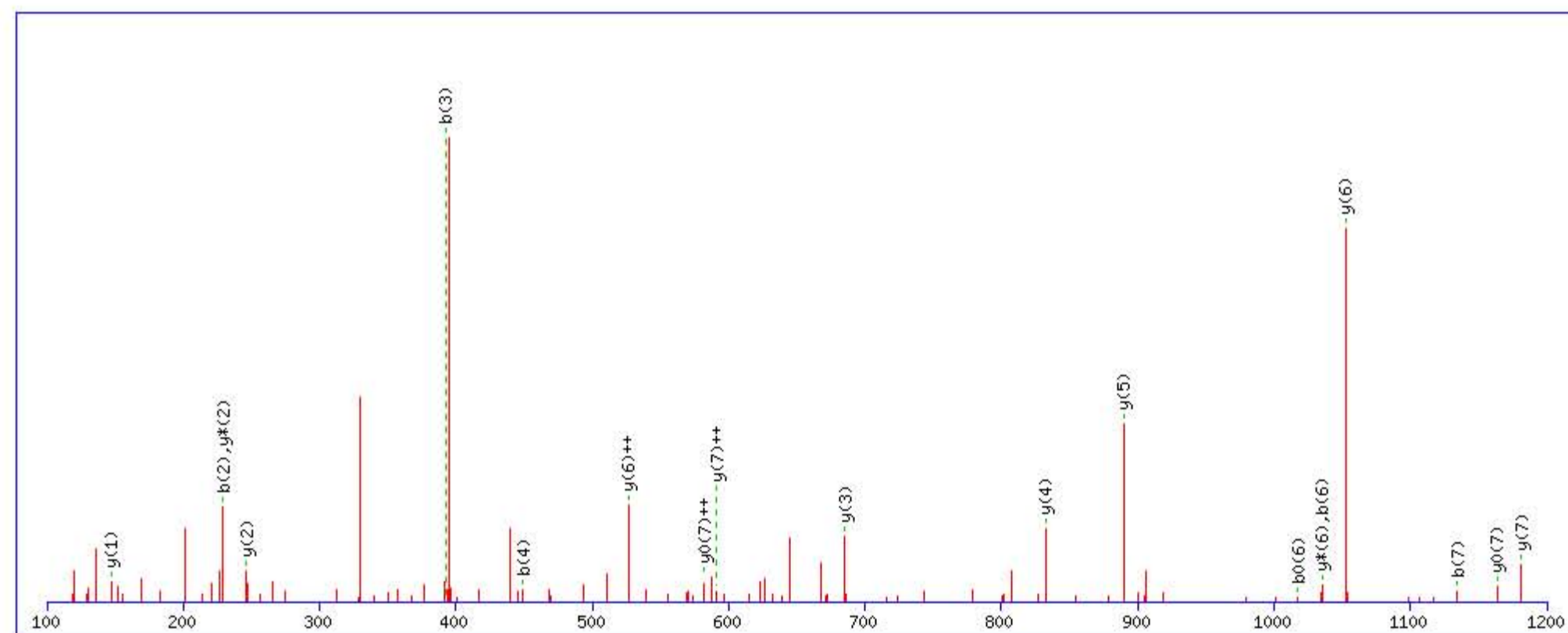
Title: Locus:1.1.1.3360.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1279.663483

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

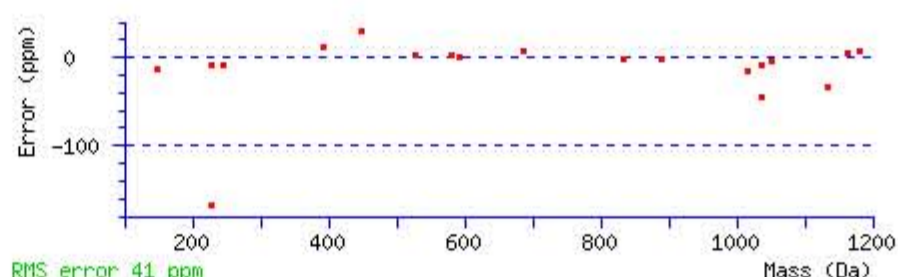
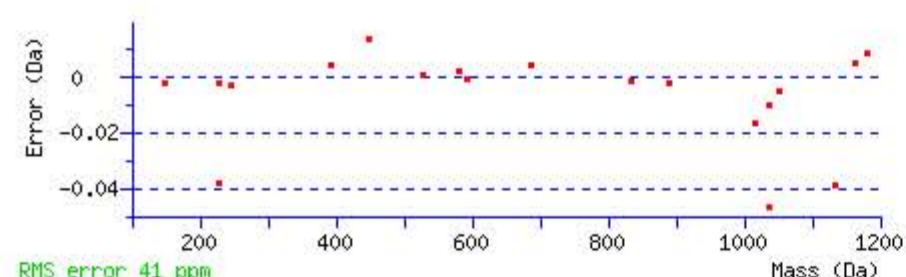
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.01

Matches : 19/60 fragment ions using 51 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							8
2	<b>229.118283</b>	115.062780			211.107718	106.057497	E	<b>1181.602344</b>	<b>591.304810</b>	1164.575795	582.791536	<b>1163.591779</b>	<b>582.299528</b>	7
3	<b>392.181612</b>	196.594444			374.171047	187.589162	Y	<b>1052.559751</b>	<b>526.783514</b>	<b>1035.533202</b>	518.270239			6
4	<b>449.203076</b>	225.105176			431.192511	216.099894	G	<b>889.496422</b>	445.251849	872.469873	436.738575			5
5	596.271490	298.639383			578.260925	289.634101	F	<b>832.474958</b>	416.741117	815.448409	408.227843			4
6	<b>1035.496816</b>	518.252046	1018.470267	509.738772	<b>1017.486251</b>	509.246764	Q	<b>685.406544</b>	343.206910	668.379995	334.693636			3
7	<b>1134.565230</b>	567.786253	1117.538681	559.272979	1116.554665	558.780971	V	<b>246.181218</b>	123.594247	<b>229.154669</b>	115.080973			2
8							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VEYGFQVK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
25.6	1279.663483	-0.003915	<a href="#">VEYGFQVK</a>
4.1	1279.663483	-0.003915	<a href="#">QFVGYLDK</a>
2.1	1279.677216	-0.017648	<a href="#">VFKTEDTQGKK</a>
0.5	1279.659470	0.000098	<a href="#">VCSFGKQVVEK</a>
0.4	1279.652039	0.007529	<a href="#">VERAITEASPAH</a>
0.3	1279.652054	0.007514	<a href="#">DAHDPQDKKVK</a>
0.1	1279.677200	-0.017632	<a href="#">EYVGKTSLVER</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VVEEQESR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 20080: 1285.627528 from(643.821040,2+) rtinseconds(1386) index(28142)

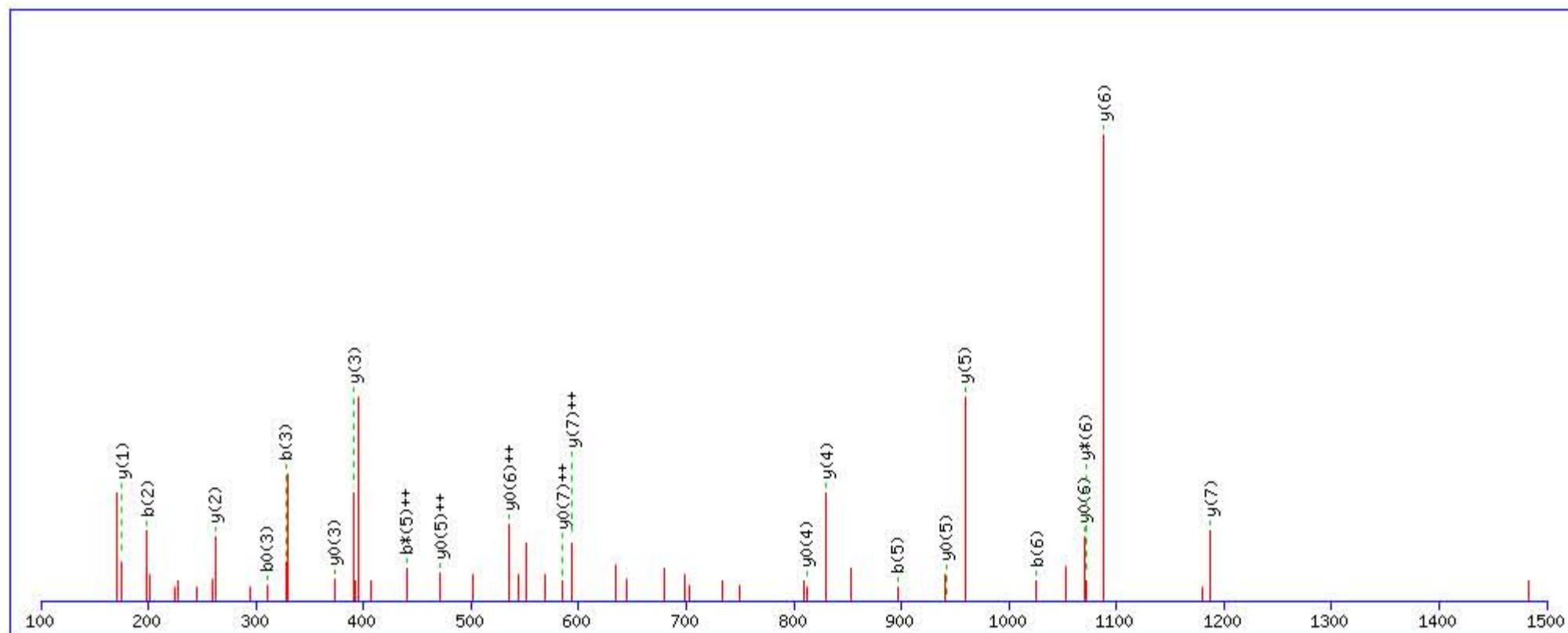
Title: Locus:1.1.1.3145.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1285.633621

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

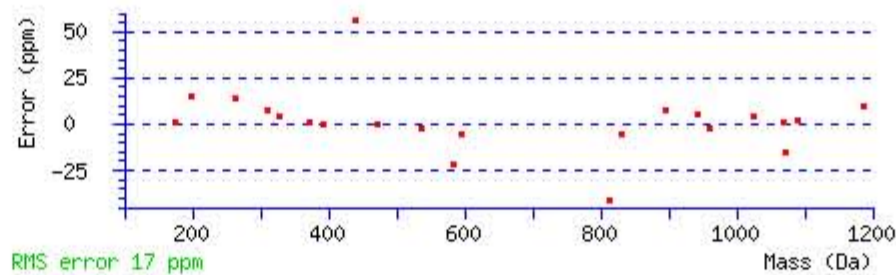
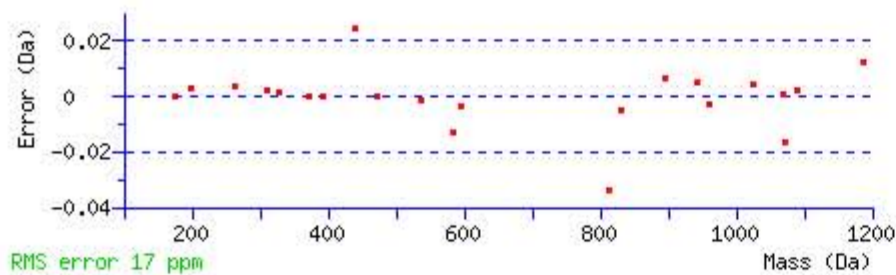
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 42 Expect: 0.0012

Matches : 22/70 fragment ions using 38 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							8
2	<b>199.144104</b>	100.075690					V	<b>1187.572499</b>	<b>594.289888</b>	1170.545950	585.776613	1169.561934	<b>585.284605</b>	7
3	<b>328.186697</b>	164.596987			<b>310.176132</b>	155.591704	E	<b>1088.504085</b>	544.755681	<b>1071.477536</b>	536.242406	<b>1070.493520</b>	<b>535.750398</b>	6
4	457.229290	229.118283			439.218725	220.113001	E	<b>959.461492</b>	480.234384	942.434943	471.721110	<b>941.450927</b>	<b>471.229102</b>	5
5	<b>896.454616</b>	448.730946	879.428067	<b>440.217672</b>	878.444051	439.725664	Q	<b>830.418899</b>	415.713088	813.392350	407.199813	<b>812.408334</b>	406.707805	4
6	<b>1025.497209</b>	513.252243	1008.470660	504.738968	1007.486644	504.246960	E	<b>391.193573</b>	196.100425	374.167024	187.587150	<b>373.183008</b>	187.095142	3
7	1112.529237	556.768257	1095.502688	548.254982	1094.518672	547.762974	S	<b>262.150980</b>	131.579128	245.124431	123.065854	244.140415	122.573846	2
8							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [VVEEQESR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
42.0	1285.633621	-0.006093	<a href="#">VVEEQESR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **LGQYASPTAK**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 21270: 1345.697228 from(673.855890,2+) rtinseconds(1635) index(29667)

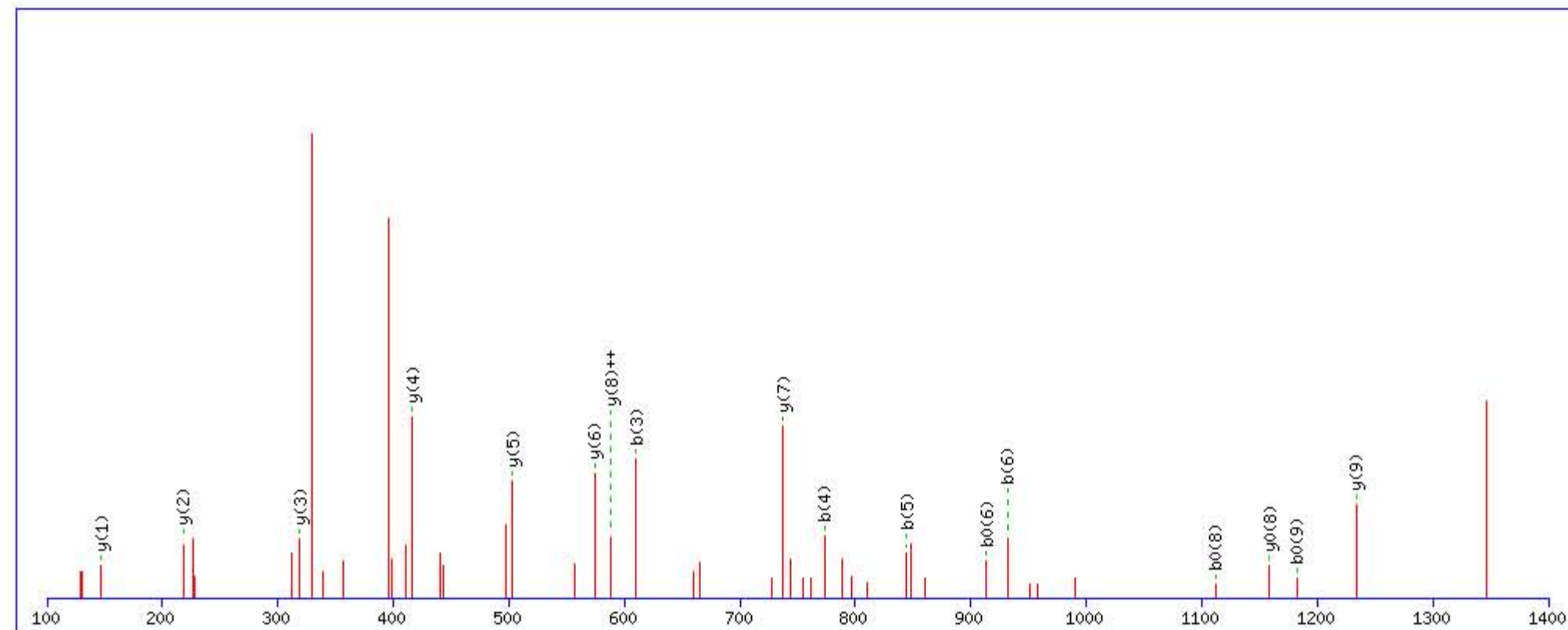
Title: Locus:1.1.1.3232.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1345.706390

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

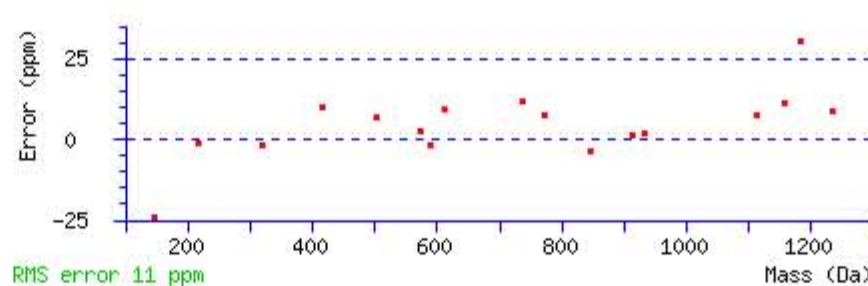
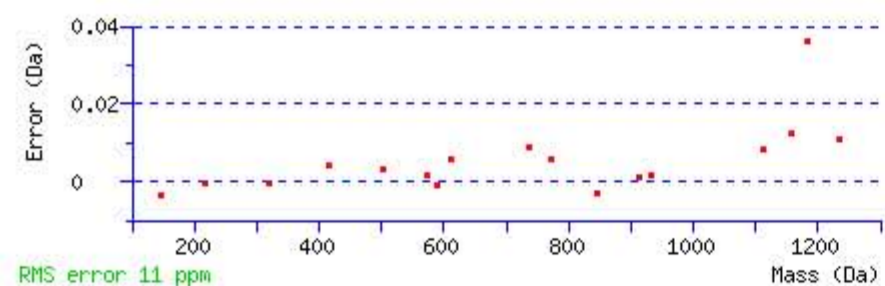
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 51 Expect: 8.5e-005

Matches : 17/90 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							10
2	171.112804	86.060040					G	<b>1233.629622</b>	617.318449	1216.603073	608.805175	1215.619057	608.313167	9
3	<b>610.338130</b>	305.672703	593.311581	297.159429			Q	1176.608158	<b>588.807717</b>	1159.581609	580.294443	<b>1158.597593</b>	579.802435	8
4	<b>773.401459</b>	387.204368	756.374910	378.691093			Y	<b>737.382832</b>	369.195054	720.356283	360.681780	719.372267	360.189772	7
5	<b>844.438573</b>	422.722925	827.412024	414.209650			A	<b>574.319503</b>	287.663389	557.292954	279.150115	556.308938	278.658107	6
6	<b>931.470601</b>	466.238939	914.444052	457.725664	<b>913.460036</b>	457.233656	S	<b>503.282389</b>	252.144832	486.255840	243.631558	485.271824	243.139550	5
7	1028.523365	514.765321	1011.496816	506.252046	1010.512800	505.760038	P	<b>416.250361</b>	208.628818	399.223812	200.115544	398.239796	199.623536	4
8	1129.571044	565.289160	1112.544495	556.775886	<b>1111.560479</b>	556.283878	T	<b>319.197597</b>	160.102436	302.171048	151.589162	301.187032	151.097154	3
9	1200.608158	600.807717	1183.581609	592.294443	<b>1182.597593</b>	591.802435	A	<b>218.149918</b>	109.578597	201.123369	101.065322			2
10							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LGQYASPTAK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
50.9	1345.706390	-0.009162	<a href="#">LGQYASPTAK</a>
7.1	1345.706406	-0.009178	<a href="#">QGLYTPQTK</a>
6.7	1345.706390	-0.009162	<a href="#">LGQYDQALK</a>
6.2	1345.692474	0.004754	<a href="#">VASCRYPALGPR</a>
2.6	1345.681213	0.016015	<a href="#">ENKMTWAPKMK</a>
1.0	1345.692505	0.004723	<a href="#">DHTVFGRVMLR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **ITQVLHFTK**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 23538: 1396.788582 from(466.603470,3+) rtinseconds(1965) index(45767)

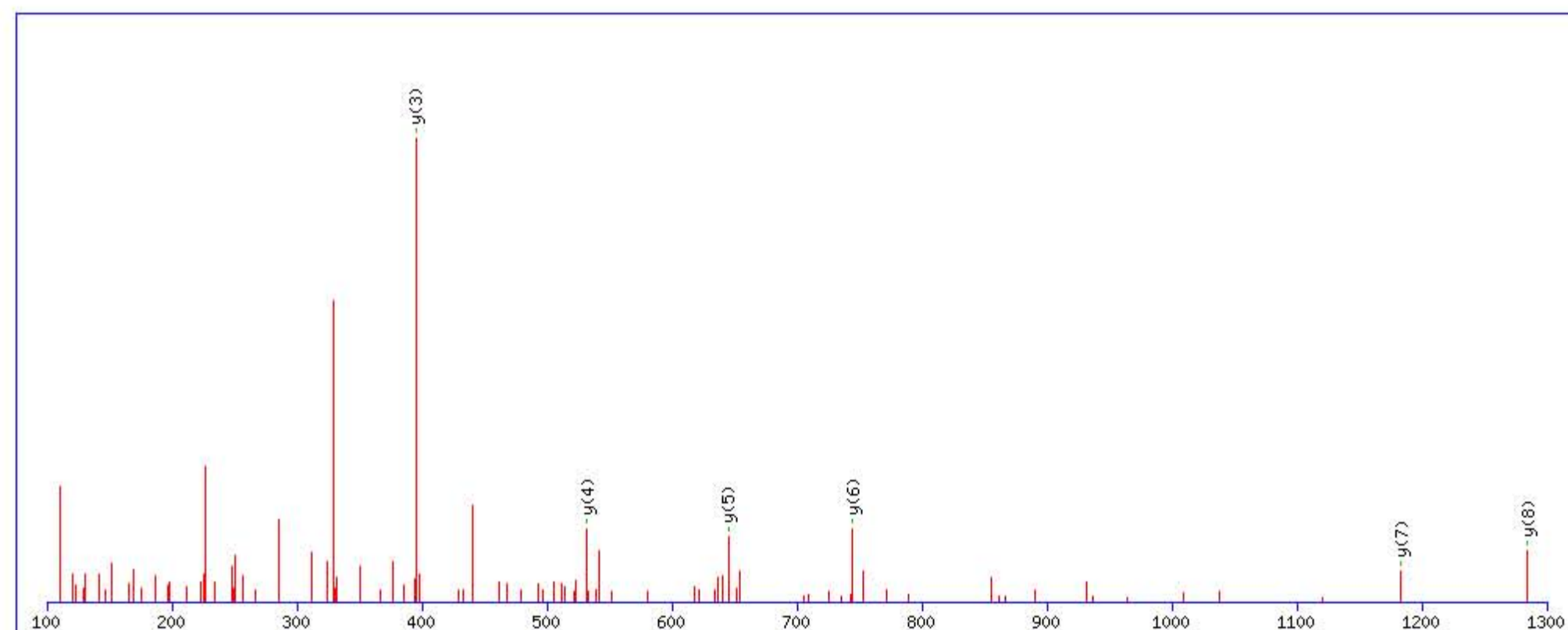
Title: Locus:1.1.1.3397.3 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1396.790085

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

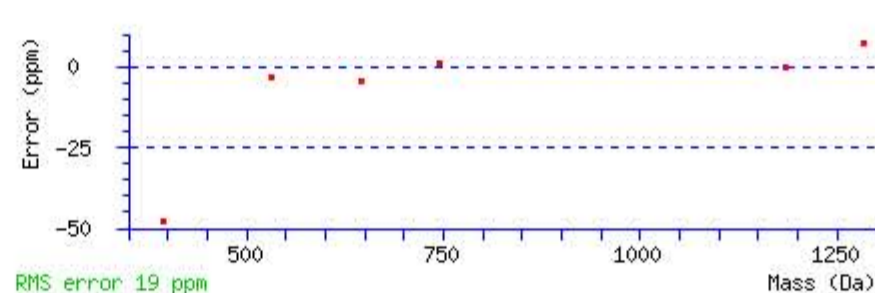
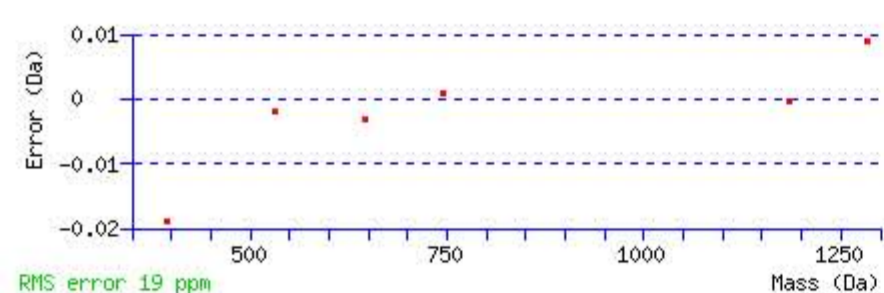
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 35 Expect: 0.00061

Matches : 6/88 fragment ions using 12 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							9
2	215.139019	108.073147			197.128454	99.067865	T	1284.713292	642.860284	1267.686743	634.347010	1266.702727	633.855002	8
3	654.364345	327.685811	637.337796	319.172536	636.353780	318.680528	Q	1183.665613	592.336445	1166.639064	583.823170	1165.655048	583.331162	7
4	753.432759	377.220018	736.406210	368.706743	735.422194	368.214735	V	744.440287	372.723782	727.413738	364.210507	726.429722	363.718499	6
5	866.516823	433.762050	849.490274	425.248775	848.506258	424.756767	L	645.371873	323.189575	628.345324	314.676300	627.361308	314.184292	5
6	1003.575735	502.291506	986.549186	493.778231	985.565170	493.286223	H	532.287809	266.647543	515.261260	258.134268	514.277244	257.642260	4
7	1150.644149	575.825713	1133.617600	567.312438	1132.633584	566.820430	F	395.228897	198.118086	378.202348	189.604812	377.218332	189.112804	3
8	1251.691828	626.349552	1234.665279	617.836278	1233.681263	617.344270	T	248.160483	124.583879	231.133934	116.070605	230.149918	115.578597	2
9							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **ITQVLHFTK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
34.6	1396.790085	-0.001503	<a href="#">ITQVLHFTK</a>
0.3	1396.792557	-0.003975	<a href="#">LLGELQEQIVQK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **GLEEELQFSLGSK**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 34611: 1746.895648 from(874.455100,2+) rtinseconds(2556) index(49068)

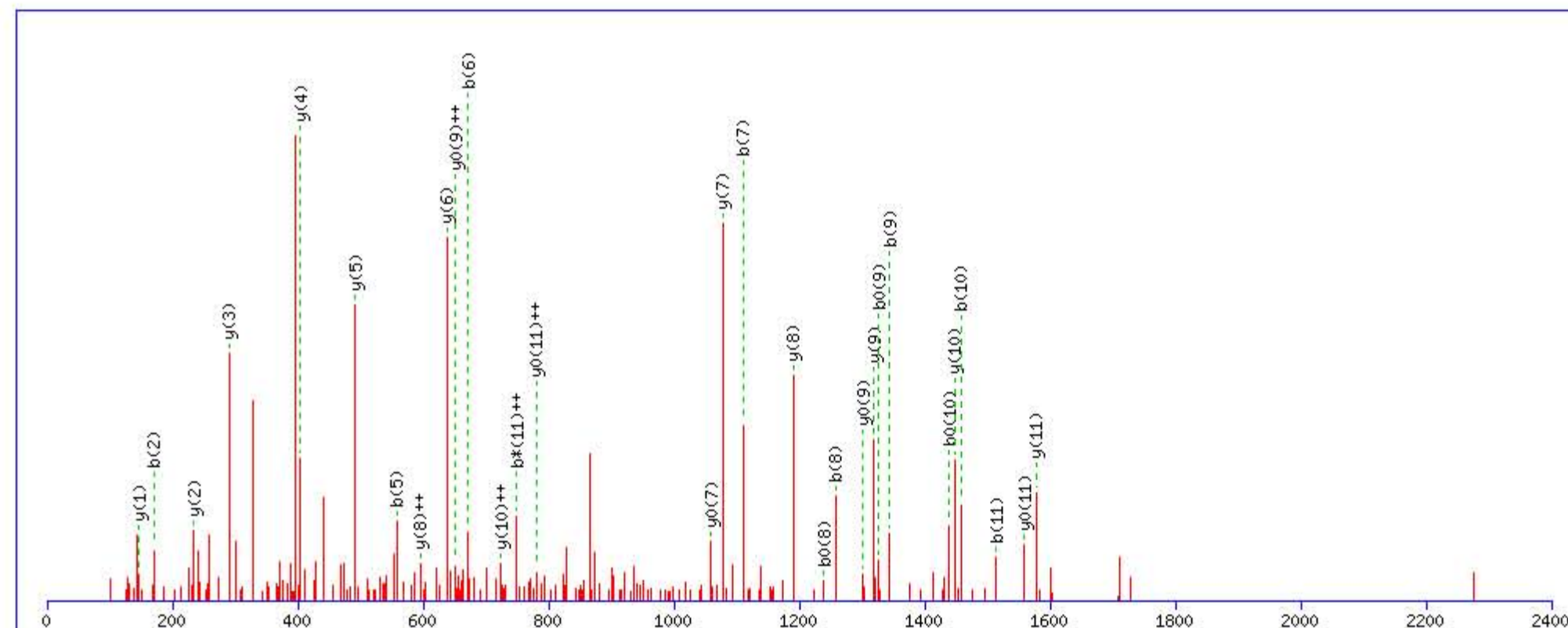
Title: Locus:1.1.1.3602.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1746.886200

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

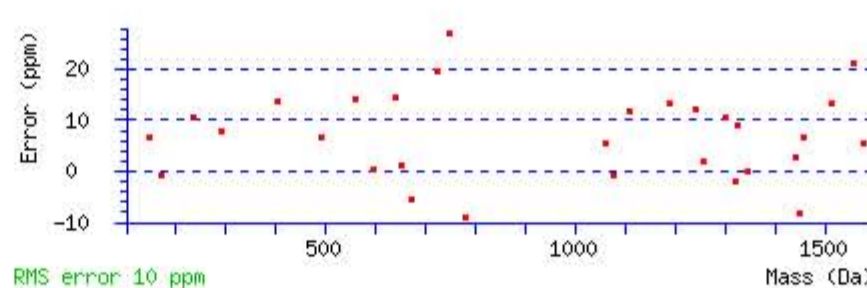
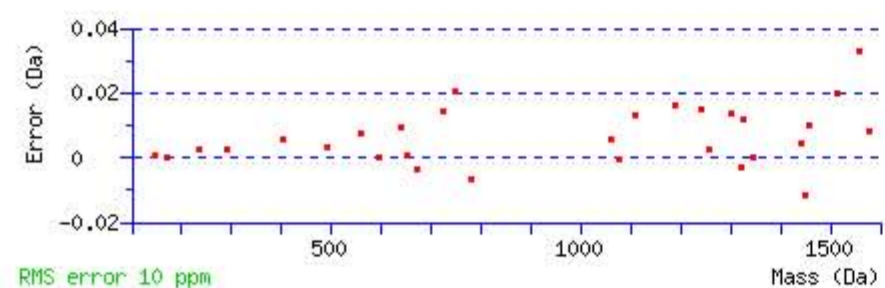
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 80 Expect: 6.9e-008

Matches : 30/126 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							13
2	<b>171.112804</b>	86.060040					L	1690.872035	845.939656	1673.845486	837.426381	1672.861470	836.934373	12
3	300.155397	150.581336			282.144832	141.576054	E	<b>1577.787971</b>	789.397624	1560.761422	780.884349	<b>1559.777406</b>	<b>780.392341</b>	11
4	429.197990	215.102633			411.187425	206.097351	E	<b>1448.745378</b>	<b>724.876327</b>	1431.718829	716.363053	1430.734813	715.871045	10
5	<b>558.240583</b>	279.623930			540.230018	270.618647	E	<b>1319.702785</b>	660.355031	1302.676236	651.841756	<b>1301.692220</b>	<b>651.349748</b>	9
6	<b>671.324647</b>	336.165962			653.314082	327.160679	L	<b>1190.660192</b>	<b>595.833734</b>	1173.633643	587.320460	1172.649627	586.828452	8
7	<b>1110.549973</b>	555.778624	1093.523424	547.265350	1092.539408	546.773342	Q	<b>1077.576128</b>	539.291702	1060.549579	530.778428	<b>1059.565563</b>	530.286419	7
8	<b>1257.618387</b>	629.312832	1240.591838	620.799557	<b>1239.607822</b>	620.307549	F	<b>638.350802</b>	319.679039	621.324253	311.165765	620.340237	310.673757	6
9	<b>1344.650415</b>	672.828846	1327.623866	664.315571	<b>1326.639850</b>	663.823563	S	<b>491.282388</b>	246.144832	474.255839	237.631557	473.271823	237.139549	5
10	<b>1457.734479</b>	729.370878	1440.707930	720.857603	<b>1439.723914</b>	720.365595	L	<b>404.250360</b>	202.628818	387.223811	194.115543	386.239795	193.623535	4
11	<b>1514.755943</b>	757.881609	1497.729394	<b>749.368335</b>	1496.745378	748.876327	G	<b>291.166296</b>	146.086786	274.139747	137.573512	273.155731	137.081504	3
12	1601.787971	801.397624	1584.761422	792.884349	1583.777406	792.392341	S	<b>234.144832</b>	117.576054	217.118283	109.062780	216.134267	108.570772	2
13							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **GLEEELQFSLGSK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
79.6	1746.886200	0.009448	<a href="#">GLEEELQFSLGSK</a>
3.2	1746.887558	0.008090	<a href="#">AVQSKAFCAGGLAPGWK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VLSLAQEQVGGSP**EK

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 36652: 1851.976662 from(618.332830,3+) rtinseconds(2001) index(46074)

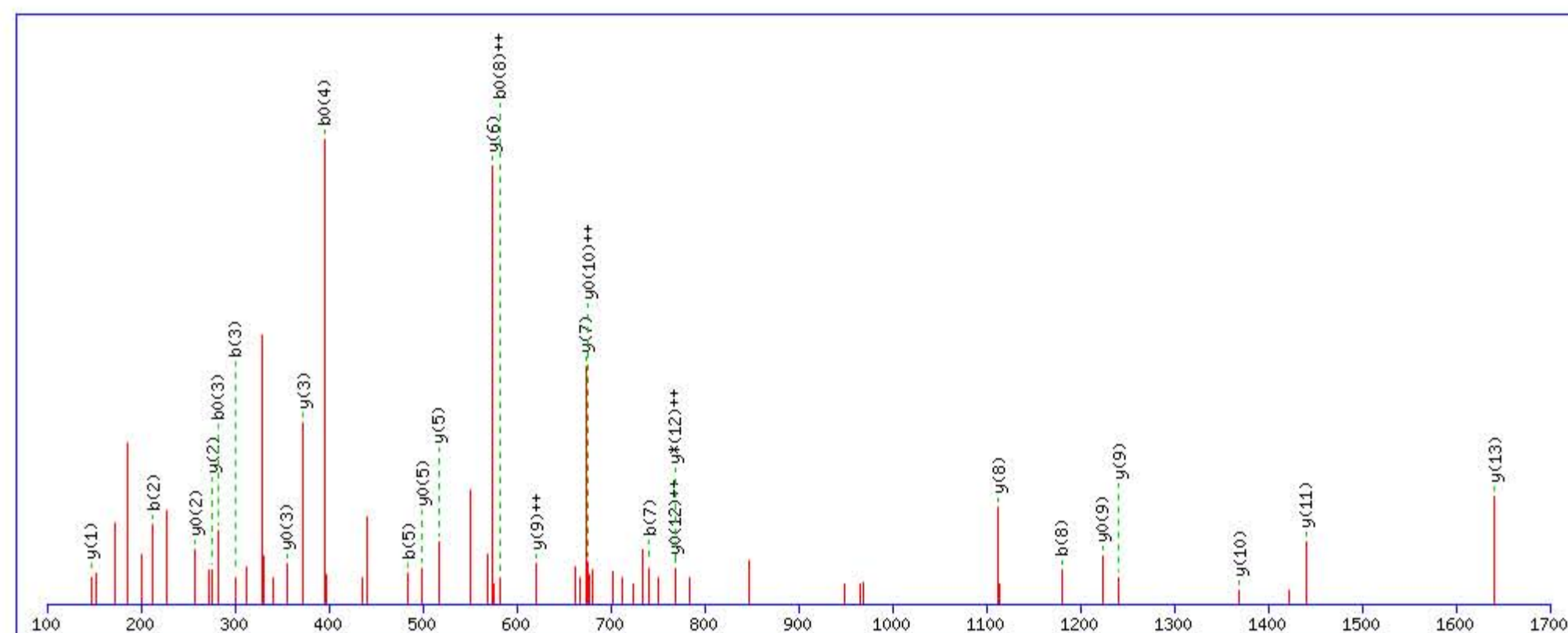
Title: Locus:1.1.1.3409.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1851.976425

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

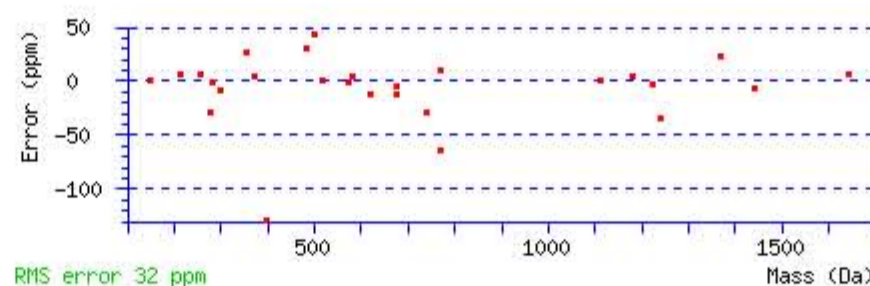
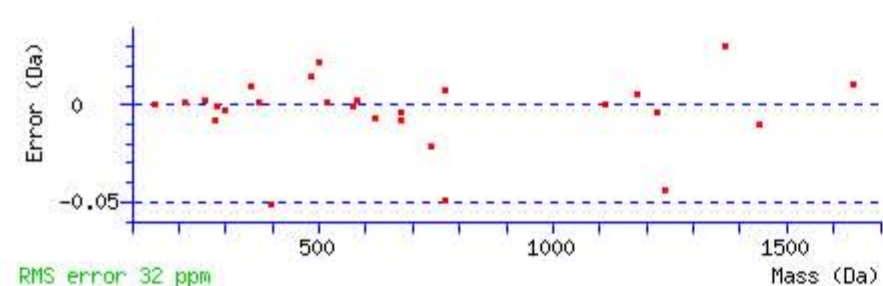
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 58 Expect: 3.7e-005

Matches : 27/152 fragment ions using 57 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							15
2	<b>213.159754</b>	107.083515					L	1753.915298	877.461287	1736.888749	868.948013	1735.904733	868.456004	14
3	<b>300.191782</b>	150.599529			<b>282.181217</b>	141.594247	S	<b>1640.831234</b>	820.919255	1623.804685	812.405981	1622.820669	811.913973	13
4	413.275846	207.141561			<b>395.265281</b>	198.136279	L	1553.799206	777.403241	1536.772657	<b>768.889967</b>	1535.788641	<b>768.397958</b>	12
5	<b>484.312960</b>	242.660118			466.302395	233.654836	A	<b>1440.715142</b>	720.861209	1423.688593	712.347935	1422.704577	711.855927	11
6	612.371538	306.689407	595.344989	298.176133	594.360973	297.684125	Q	<b>1369.678028</b>	685.342652	1352.651479	676.829378	1351.667463	<b>676.337370</b>	10
7	<b>741.414131</b>	371.210704	724.387582	362.697429	723.403566	362.205421	E	<b>1241.619450</b>	<b>621.313363</b>	1224.592901	612.800089	<b>1223.608885</b>	612.308080	9
8	<b>1180.639457</b>	590.823367	1163.612908	582.310092	1162.628892	<b>581.818084</b>	Q	<b>1112.576857</b>	556.792066	1095.550308	548.278792	1094.566292	547.786784	8
9	1279.707871	640.357574	1262.681322	631.844299	1261.697306	631.352291	V	<b>673.351531</b>	337.179404	656.324982	328.666129	655.340966	328.174121	7
10	1336.729335	668.868306	1319.702786	660.355031	1318.718770	659.863023	G	<b>574.283117</b>	287.645197	557.256568	279.131922	556.272552	278.639914	6
11	1393.750799	697.379037	1376.724250	688.865763	1375.740234	688.373755	G	<b>517.261653</b>	259.134465	500.235104	250.621190	<b>499.251088</b>	250.129182	5
12	1480.782827	740.895052	1463.756278	732.381777	1462.772262	731.889769	S	460.240189	230.623732	443.213640	222.110458	442.229624	221.618450	4
13	1577.835591	789.421434	1560.809042	780.908159	1559.825026	780.416151	P	<b>373.208161</b>	187.107718	356.181612	178.594444	<b>355.197596</b>	178.102436	3
14	1706.878184	853.942730	1689.851635	845.429456	1688.867619	844.937447	E	<b>276.155397</b>	138.581336	259.128848	130.068062	<b>258.144832</b>	129.576054	2
15							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VLSLAQEQVGGSP**EK

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
58.3	1851.976425	0.000237	<a href="#">VLSLAQEQVGGSP</a> EK
37.0	1851.976425	0.000237	<a href="#">VLSLAQEQVGGSP</a> EK

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



# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **GPEVQLVAHSPWLK**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 37065: 1871.013762 from(624.678530,3+) rtinseconds(2248) index(47552)

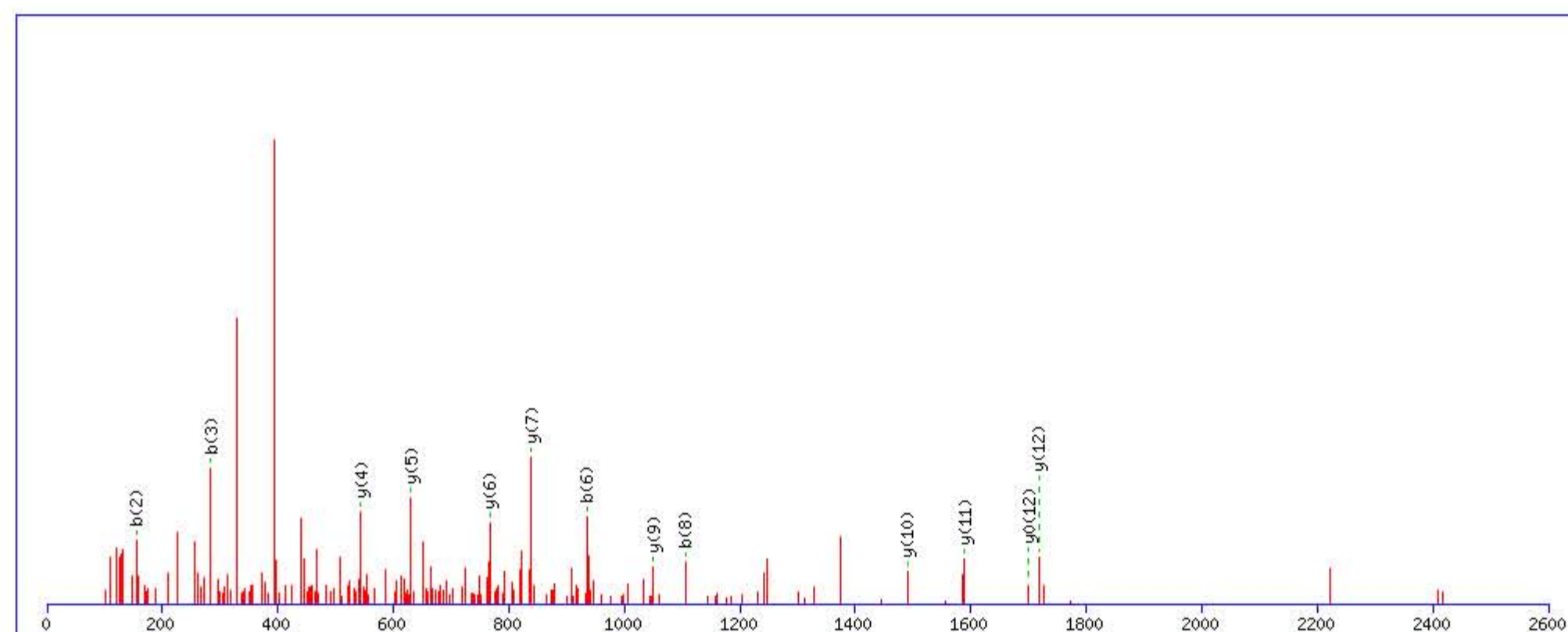
Title: Locus:1.1.1.3495.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1871.012756

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

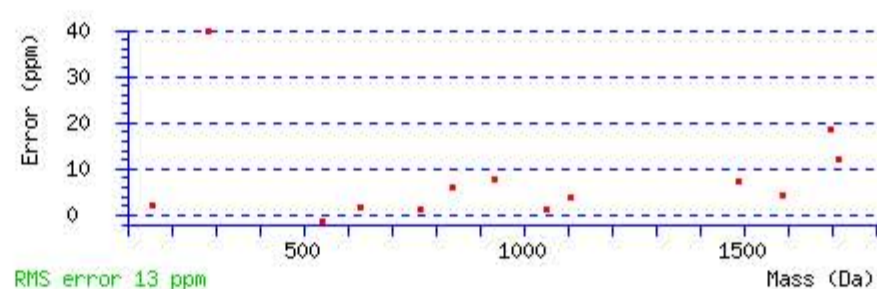
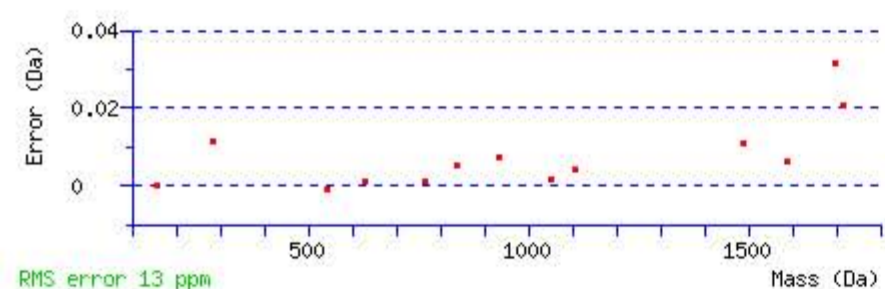
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 59 Expect: 7.5e-006

Matches : 13/136 fragment ions using 17 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					<b>G</b>							14
2	<b>155.081504</b>	78.044390					<b>P</b>	1814.998574	908.002925	1797.972025	899.489651	1796.988009	898.997643	13
3	<b>284.124097</b>	142.565687			266.113532	133.560404	<b>E</b>	<b>1717.945810</b>	859.476543	1700.919261	850.963269	<b>1699.935245</b>	850.471261	12
4	383.192511	192.099894			365.181946	183.094611	<b>V</b>	<b>1588.903217</b>	794.955247	1571.876668	786.441972	1570.892652	785.949964	11
5	822.417837	411.712557	805.391288	403.199282	804.407272	402.707274	<b>Q</b>	<b>1489.834803</b>	745.421040	1472.808254	736.907765	1471.824238	736.415757	10
6	<b>935.501901</b>	468.254589	918.475352	459.741314	917.491336	459.249306	<b>L</b>	<b>1050.609477</b>	525.808377	1033.582928	517.295102	1032.598912	516.803094	9
7	1034.570315	517.788796	1017.543766	509.275521	1016.559750	508.783513	<b>V</b>	937.525413	469.266345	920.498864	460.753070	919.514848	460.261062	8
8	<b>1105.607429</b>	553.307353	1088.580880	544.794078	1087.596864	544.302070	<b>A</b>	<b>838.456999</b>	419.732138	821.430450	411.218863	820.446434	410.726855	7
9	1242.666341	621.836809	1225.639792	613.323534	1224.655776	612.831526	<b>H</b>	<b>767.419885</b>	384.213581	750.393336	375.700306	749.409320	375.208298	6
10	1329.698369	665.352823	1312.671820	656.839548	1311.687804	656.347540	<b>S</b>	<b>630.360973</b>	315.684125	613.334424	307.170850	612.350408	306.678842	5
11	1426.751133	713.879205	1409.724584	705.365930	1408.740568	704.873922	<b>P</b>	<b>543.328945</b>	272.168111	526.302396	263.654836			4
12	1612.830446	806.918861	1595.803897	798.405587	1594.819881	797.913579	<b>W</b>	446.276181	223.641728	429.249632	215.128454			3
13	1725.914510	863.460893	1708.887961	854.947619	1707.903945	854.455611	<b>L</b>	260.196868	130.602072	243.170319	122.088797			2
14							<b>K</b>	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **GPEVQLVAHSPWLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
59.0	1871.012756	0.001006	<a href="#">GPEVQLVAHSPWLK</a>
4.4	1870.994781	0.018981	<a href="#">NVNQAKLSEHRHK</a>

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

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **HLVPGAPFLLQALVR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 38193: 1941.148422 from(648.056750,3+) rtinseconds(2881) index(51423)

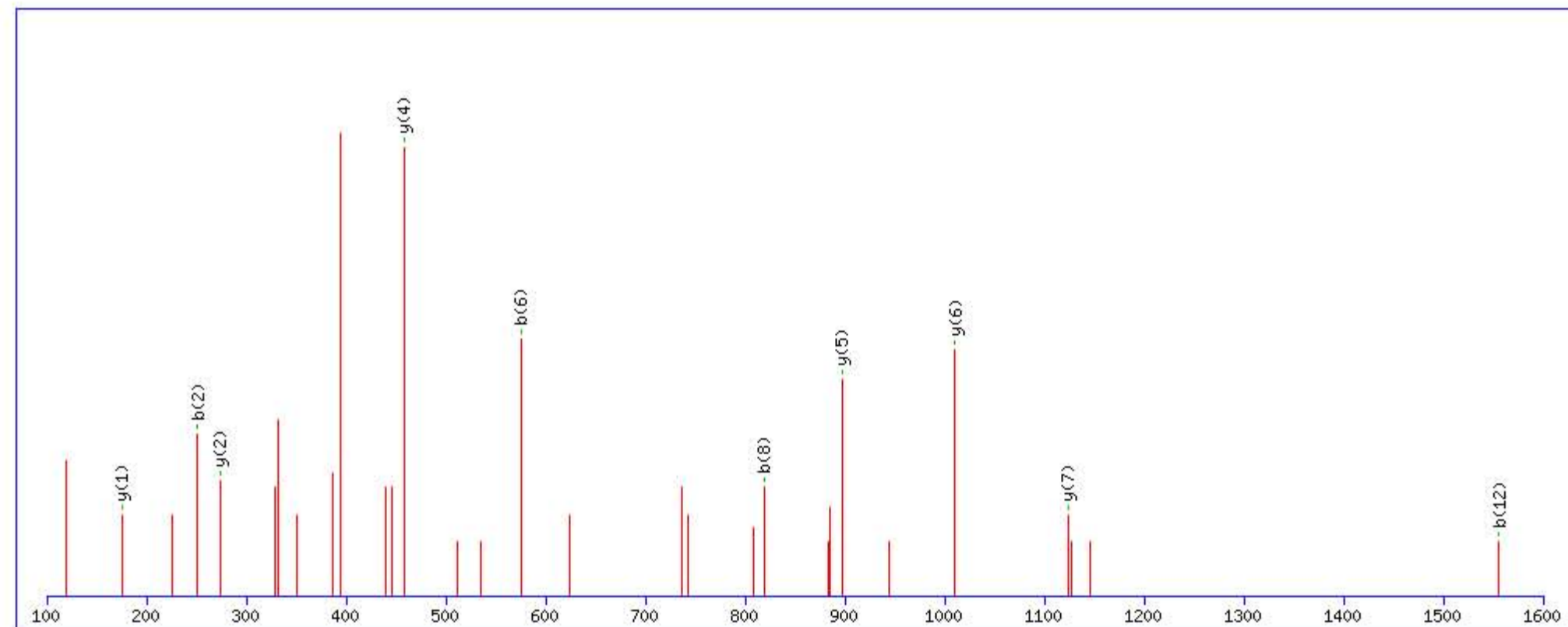
Title: Locus:1.1.1.3713.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1941.138626

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

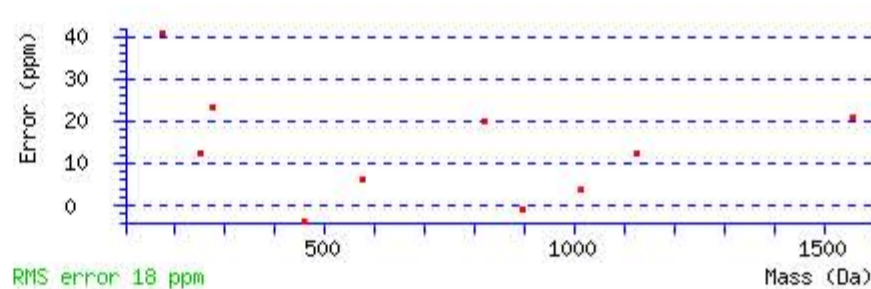
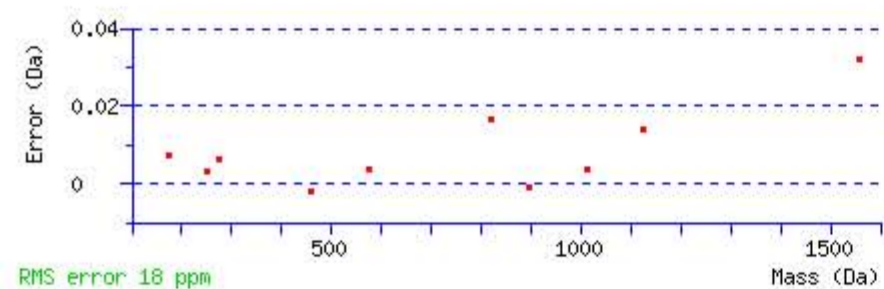
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 34 Expect: 0.00084

Matches : 10/92 fragment ions using 20 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	138.066188	69.536732			<b>H</b>					15
2	<b>251.150252</b>	126.078764			<b>L</b>	1805.086996	903.047136	1788.060447	894.533862	14
3	350.218666	175.612971			<b>V</b>	1692.002932	846.505104	1674.976383	837.991830	13
4	447.271430	224.139353			<b>P</b>	1592.934518	796.970897	1575.907969	788.457623	12
5	504.292894	252.650085			<b>G</b>	1495.881754	748.444515	1478.855205	739.931241	11
6	<b>575.330008</b>	288.168642			<b>A</b>	1438.860290	719.933783	1421.833741	711.420509	10
7	672.382772	336.695024			<b>P</b>	1367.823176	684.415226	1350.796627	675.901952	9
8	<b>819.451186</b>	410.229231			<b>F</b>	1270.770412	635.888844	1253.743863	627.375570	8
9	932.535250	466.771263			<b>L</b>	<b>1123.701998</b>	562.354637	1106.675449	553.841363	7
10	1045.619314	523.313295			<b>L</b>	<b>1010.617934</b>	505.812605	993.591385	497.299331	6
11	1484.844640	742.925958	1467.818091	734.412684	<b>Q</b>	<b>897.533870</b>	449.270573	880.507321	440.757298	5
12	<b>1555.881754</b>	778.444515	1538.855205	769.931241	<b>A</b>	<b>458.308544</b>	229.657910	441.281995	221.144635	4
13	1668.965818	834.986547	1651.939269	826.473273	<b>L</b>	387.271430	194.139353	370.244881	185.626078	3
14	1768.034232	884.520754	1751.007683	876.007480	<b>V</b>	<b>274.187366</b>	137.597321	257.160817	129.084047	2
15					<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839	1



NCBI BLAST search of [HLVPGAPFLLQALVR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
34.0	1941.138626	0.009796	<a href="#">HLVPGAPFLLQALVR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EPFLSCCQFAESLR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 40920: 2053.946352 from(685.656060,3+) rtinseconds(2498) index(48782)

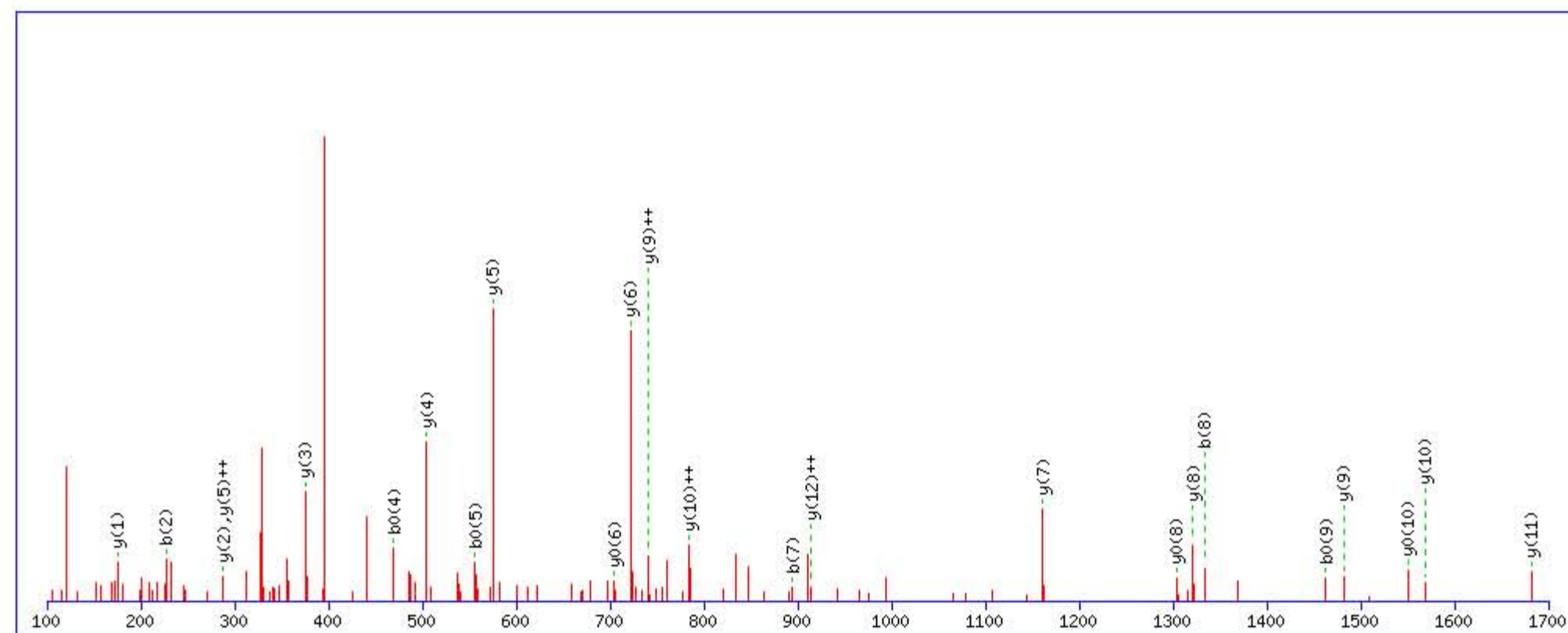
Title: Locus:1.1.1.3582.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2053.942368

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

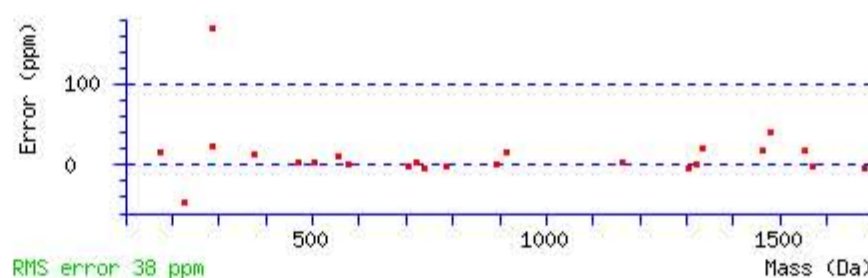
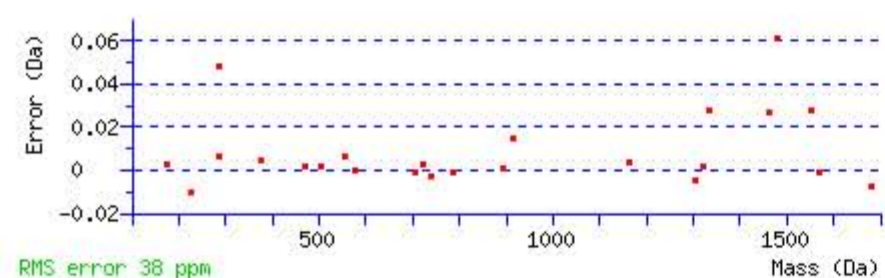
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 65 Expect: 1.4e-006

Matches : 24/138 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							14
2	<b>227.102633</b>	114.054954			209.092068	105.049672	P	1925.907059	963.457168	1908.880510	954.943893	1907.896494	954.451885	13
3	374.171047	187.589161			356.160482	178.583879	F	1828.854295	<b>914.930786</b>	1811.827746	906.417511	1810.843730	905.925503	12
4	487.255111	244.131193			<b>469.244546</b>	235.125911	L	<b>1681.785881</b>	841.396579	1664.759332	832.883304	1663.775316	832.391296	11
5	574.287139	287.647208			<b>556.276574</b>	278.641925	S	<b>1568.701817</b>	<b>784.854547</b>	1551.675268	776.341272	<b>1550.691252</b>	775.849264	10
6	734.317788	367.662532			716.307223	358.657250	C	<b>1481.669789</b>	<b>741.338533</b>	1464.643240	732.825258	1463.659224	732.333250	9
7	<b>894.348437</b>	447.677857			876.337872	438.672574	C	<b>1321.639140</b>	661.323208	1304.612591	652.809934	<b>1303.628575</b>	652.317926	8
8	<b>1333.573763</b>	667.290520	1316.547214	658.777245	1315.563198	658.285237	Q	<b>1161.608491</b>	581.307884	1144.581942	572.794609	1143.597926	572.302601	7
9	1480.642177	740.824727	1463.615628	732.311452	<b>1462.631612</b>	731.819444	F	<b>722.383165</b>	361.695221	705.356616	353.181946	<b>704.372600</b>	352.689938	6
10	1551.679291	776.343284	1534.652742	767.830009	1533.668726	767.338001	A	<b>575.314751</b>	<b>288.161014</b>	558.288202	279.647739	557.304186	279.155731	5
11	1680.721884	840.864580	1663.695335	832.351306	1662.711319	831.859298	E	<b>504.277637</b>	252.642457	487.251088	244.129182	486.267072	243.637174	4
12	1767.753912	884.380594	1750.727363	875.867320	1749.743347	875.375312	S	<b>375.235044</b>	188.121160	358.208495	179.607885	357.224479	179.115877	3
13	1880.837976	940.922626	1863.811427	932.409352	1862.827411	931.917344	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
14							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **EPFLSCCQFAESLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
65.3	2053.942368	0.003984	<a href="#">EPFLSCCQFAESLR</a>
3.1	2053.948227	-0.001875	<a href="#">EKSTCSMGSELLPMISPR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LLATLCSAEVCQCAEGK**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 43621: 2220.038922 from(741.020250,3+) rtinseconds(2229) index(47386)

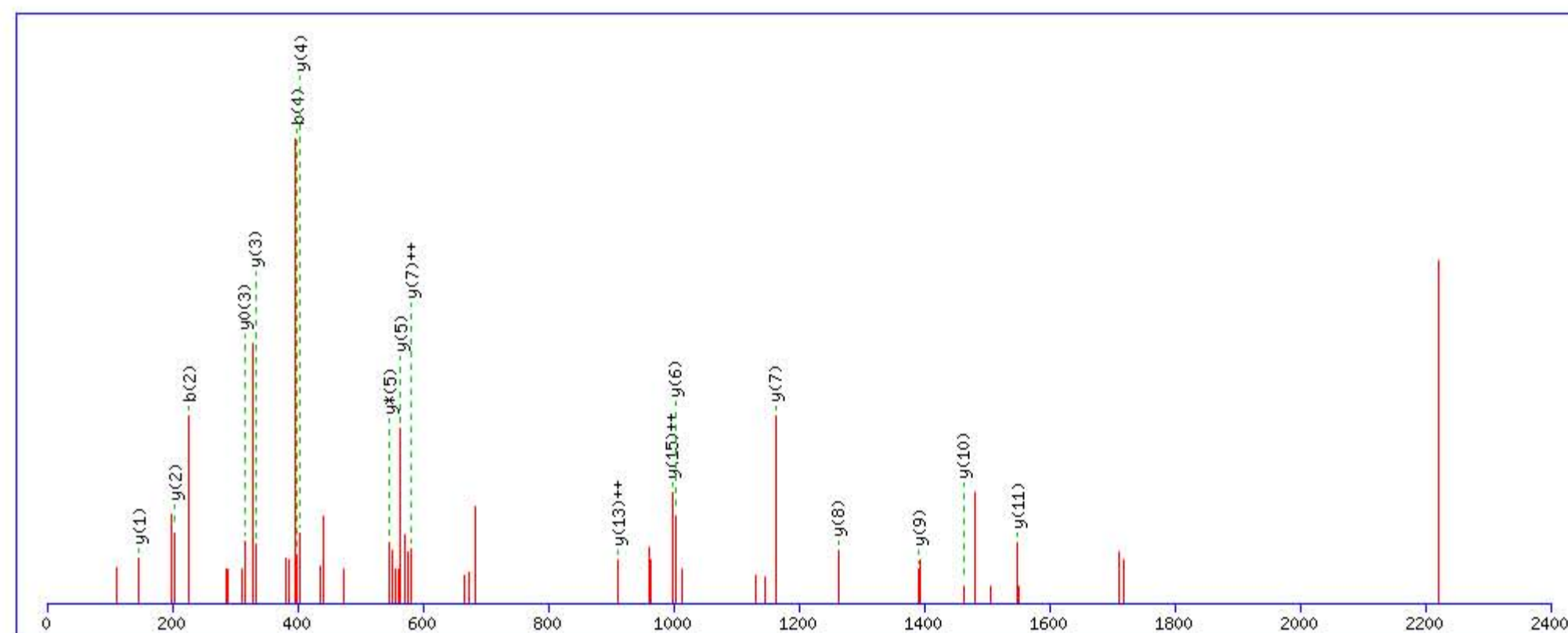
Title: Locus:1.1.1.3488.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2220.041092

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

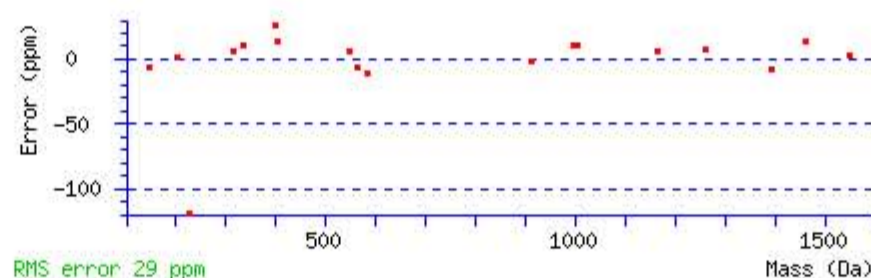
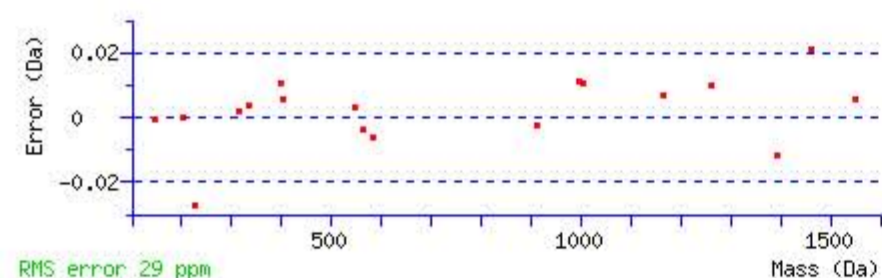
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 50 Expect: 0.00017

Matches : 18/160 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							17
2	<b>227.175404</b>	114.091340					L	2107.964318	1054.485797	2090.937769	1045.972522	2089.953753	1045.480514	16
3	298.212518	149.609897					A	1994.880254	<b>997.943765</b>	1977.853705	989.430491	1976.869689	988.938483	15
4	<b>399.260197</b>	200.133737			381.249632	191.128454	T	1923.843140	962.425208	1906.816591	953.911934	1905.832575	953.419926	14
5	512.344261	256.675769			494.333696	247.670486	L	1822.795461	<b>911.901369</b>	1805.768912	903.388094	1804.784896	902.896086	13
6	672.374910	336.691093			654.364345	327.685811	C	1709.711397	855.359337	1692.684848	846.846062	1691.700832	846.354054	12
7	759.406938	380.207107			741.396373	371.201825	S	<b>1549.680748</b>	775.344012	1532.654199	766.830738	1531.670183	766.338730	11
8	830.444052	415.725664			812.433487	406.720382	A	<b>1462.648720</b>	731.827998	1445.622171	723.314724	1444.638155	722.822716	10
9	959.486645	480.246961			941.476080	471.241678	E	<b>1391.611606</b>	696.309441	1374.585057	687.796167	1373.601041	687.304159	9
10	1058.555059	529.781168			1040.544494	520.775885	V	<b>1262.569013</b>	631.788145	1245.542464	623.274870	1244.558448	622.782862	8
11	1218.585708	609.796492			1200.575143	600.791210	C	<b>1163.500599</b>	<b>582.253938</b>	1146.474050	573.740663	1145.490034	573.248655	7
12	1657.811034	829.409155	1640.784485	820.895881	1639.800469	820.403873	Q	<b>1003.469950</b>	502.238613	986.443401	493.725339	985.459385	493.233331	6
13	1817.841683	909.424480	1800.815134	900.911205	1799.831118	900.419197	C	<b>564.244624</b>	282.625950	<b>547.218075</b>	274.112676	546.234059	273.620668	5
14	1888.878797	944.943037	1871.852248	936.429762	1870.868232	935.937754	A	<b>404.213975</b>	202.610626	387.187426	194.097351	386.203410	193.605343	4
15	2017.921390	1009.464333	2000.894841	1000.951059	1999.910825	1000.459051	E	<b>333.176861</b>	167.092069	316.150312	158.578794	<b>315.166296</b>	158.086786	3
16	2074.942854	1037.975065	2057.916305	1029.461790	2056.932289	1028.969782	G	<b>204.134268</b>	102.570772	187.107719	94.057497			2
17							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [LLATLCSAEVCQCAEGK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
49.7	2220.041092	-0.002170	<a href="#">LLATLCSAEVCQCAEGK</a>

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

**Peptide View**

MS/MS Fragmentation of **GCGEQTMIIYLAPTLAASR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 44062: 2249.109492 from(750.710440,3+) rtinseconds(2515) index(48930)

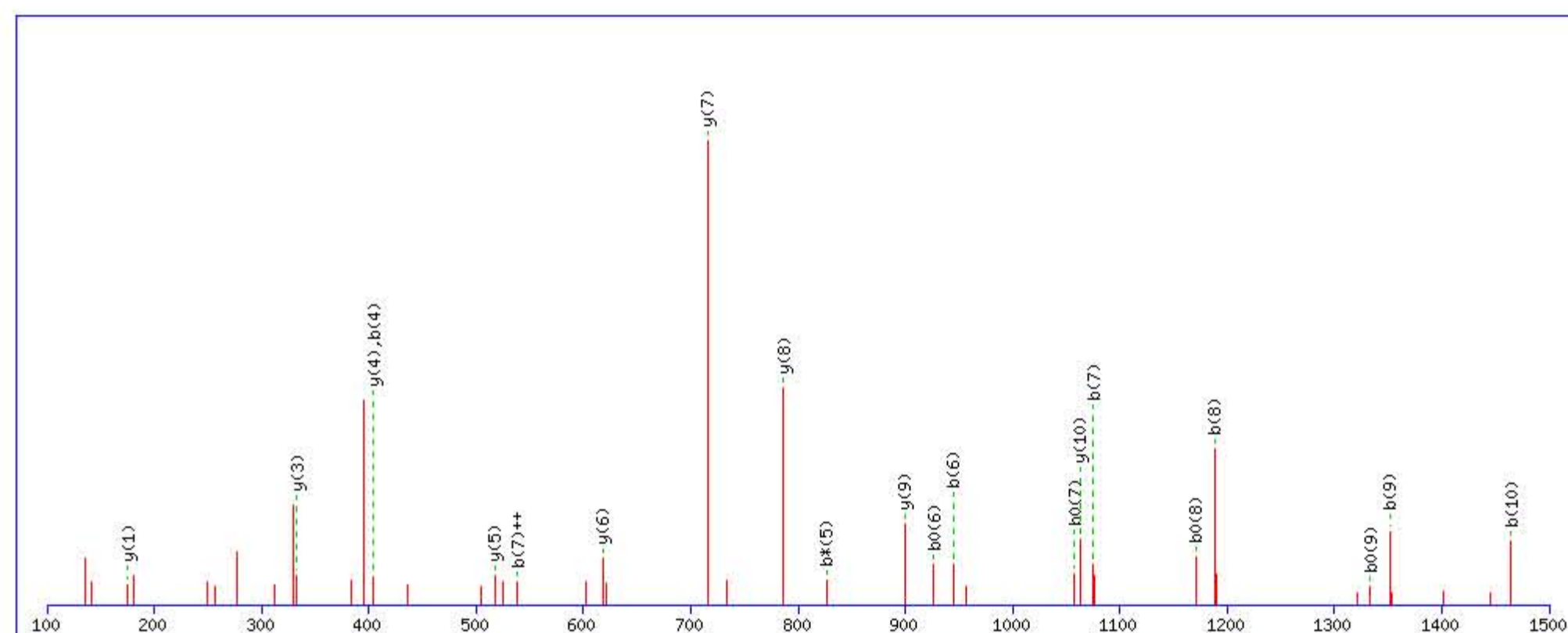
Title: Locus:1.1.1.3588.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2249.100647

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

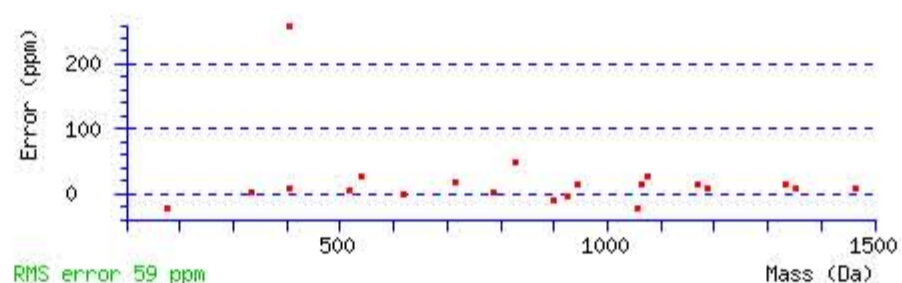
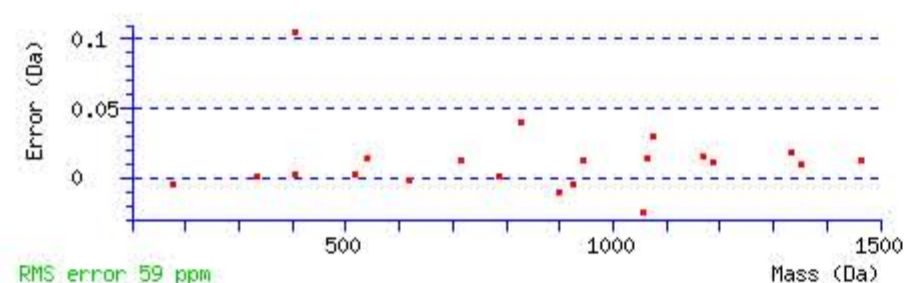
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 38 Expect: 0.0011

Matches : 21/188 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							18
2	218.059389	109.533333					C	2193.086482	1097.046879	2176.059933	1088.533604	2175.075917	1088.041596	17
3	275.080853	138.044064					G	2033.055833	1017.031555	2016.029284	1008.518280	2015.045268	1008.026272	16
4	<b>404.123446</b>	202.565361			386.112881	193.560079	E	1976.034369	988.520822	1959.007820	980.007548	1958.023804	979.515540	15
5	843.348772	422.178024	<b>826.322223</b>	413.664750	825.338207	413.172742	Q	1846.991776	923.999526	1829.965227	915.486251	1828.981211	914.994243	14
6	<b>944.396451</b>	472.701864	927.369902	464.188589	<b>926.385886</b>	463.696581	T	1407.766450	704.386863	1390.739901	695.873588	1389.755885	695.381580	13
7	<b>1075.436936</b>	<b>538.222106</b>	1058.410387	529.708832	<b>1057.426371</b>	529.216824	M	1306.718771	653.863023	1289.692222	645.349749	1288.708206	644.857741	12
8	<b>1188.521000</b>	594.764138	1171.494451	586.250864	<b>1170.510435</b>	585.758855	I	1175.678286	588.342781	1158.651737	579.829506	1157.667721	579.337498	11
9	<b>1351.584329</b>	676.295803	1334.557780	667.782528	<b>1333.573764</b>	667.290520	Y	<b>1062.594222</b>	531.800749	1045.567673	523.287475	1044.583657	522.795466	10
10	<b>1464.668393</b>	732.837834	1447.641844	724.324560	1446.657828	723.832552	L	<b>899.530893</b>	450.269084	882.504344	441.755810	881.520328	441.263802	9
11	1535.705507	768.356391	1518.678958	759.843117	1517.694942	759.351109	A	<b>786.446829</b>	393.727053	769.420280	385.213778	768.436264	384.721770	8
12	1632.758271	816.882773	1615.731722	808.369499	1614.747706	807.877491	P	<b>715.409715</b>	358.208496	698.383166	349.695221	697.399150	349.203213	7
13	1733.805950	867.406613	1716.779401	858.893339	1715.795385	858.401330	T	<b>618.356951</b>	309.682114	601.330402	301.168839	600.346386	300.676831	6
14	1846.890014	923.948645	1829.863465	915.435370	1828.879449	914.943362	L	<b>517.309272</b>	259.158274	500.282723	250.644999	499.298707	250.152991	5
15	1917.927128	959.467202	1900.900579	950.953927	1899.916563	950.461919	A	<b>404.225208</b>	202.616242	387.198659	194.102967	386.214643	193.610959	4
16	1988.964242	994.985759	1971.937693	986.472484	1970.953677	985.980476	A	<b>333.188094</b>	167.097685	316.161545	158.584410	315.177529	158.092402	3
17	2075.996270	1038.501773	2058.969721	1029.988498	2057.985705	1029.496490	S	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	2
18							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GCGEQTMIIYLAPTLAASR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
37.9	2249.100647	0.008845	<a href="#">GCGEQTMIIYLAPTLAASR</a>
6.2	2249.115051	-0.005559	<a href="#">YSTSLYASPSMVHEGVAVVPR</a>
3.2	2249.137527	-0.028035	<a href="#">QKFERPICVSWSTDVKGGR</a>
1.9	2249.096420	0.013072	<a href="#">SDNTVTWLAAWTESVQNSIK</a>
0.3	2249.078659	0.030833	<a href="#">FENGVAEGMVDPSPNPISAFR</a>

MATRIX SCIENCE Mascot Search Results

Peptide View

MS/MS Fragmentation of DDPDAPLQPVTPLQLFEGR

Found in CO4A\_HUMAN, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 46770: 2418.237822 from(807.086550,3+) rtinseconds(3010) index(52389)

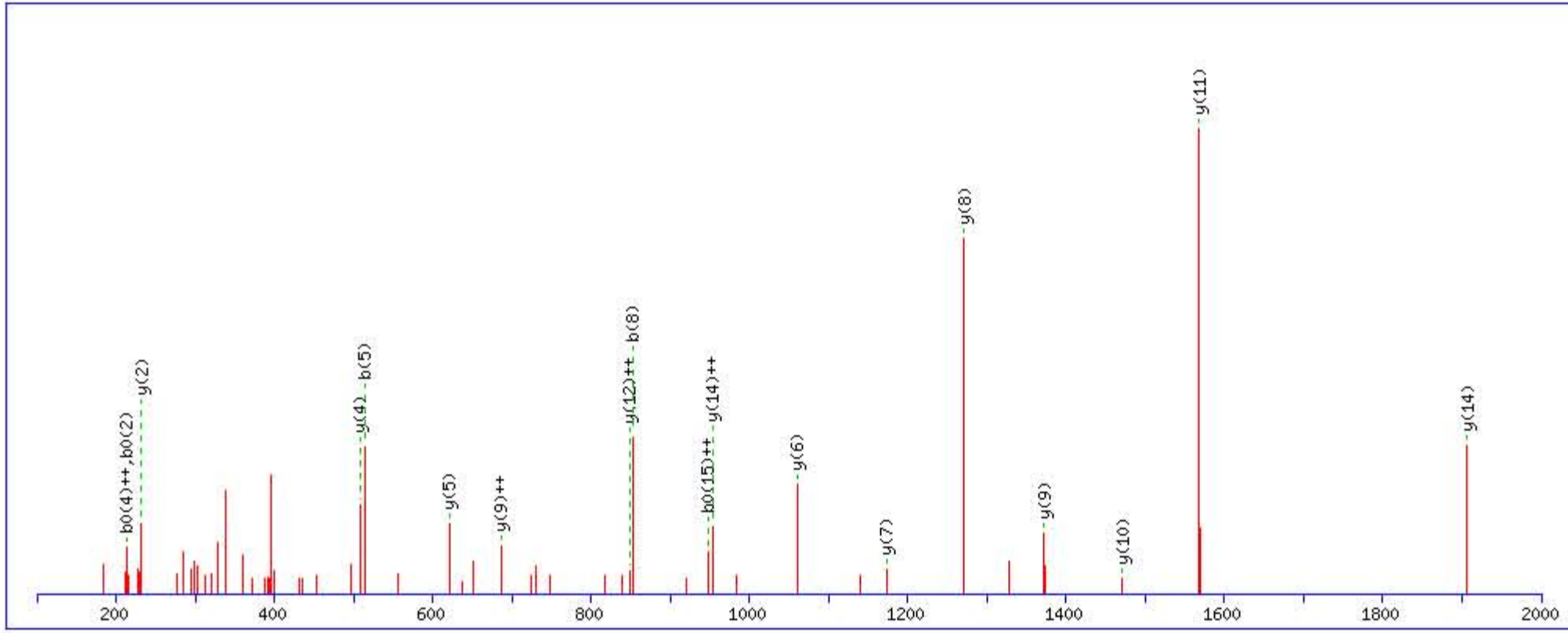
Title: Locus:1.1.1.3756.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 100 to 2000 Da Full range

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2418.225342

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

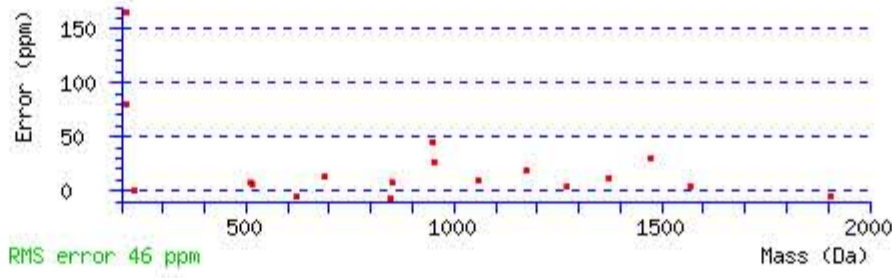
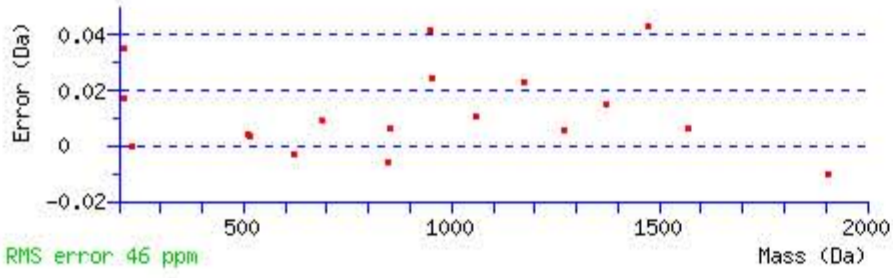
Variable modifications:

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 66 Expect: 8.1e-007

Matches : 18/198 fragment ions using 27 most intense peaks (help)

Table with columns: #, b, b++, b+, b\*+, b0, b0++, Seq., y, y++, y\*, y\*+, y0, y0++, #. Contains 19 rows of data.



NCBI BLAST search of DDPDAPLQPVTPLQLFEGR

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST web gateways

All matches to this query

Table with columns: Score, Mr(calc):, Delta, Sequence. Lists sequence matches.

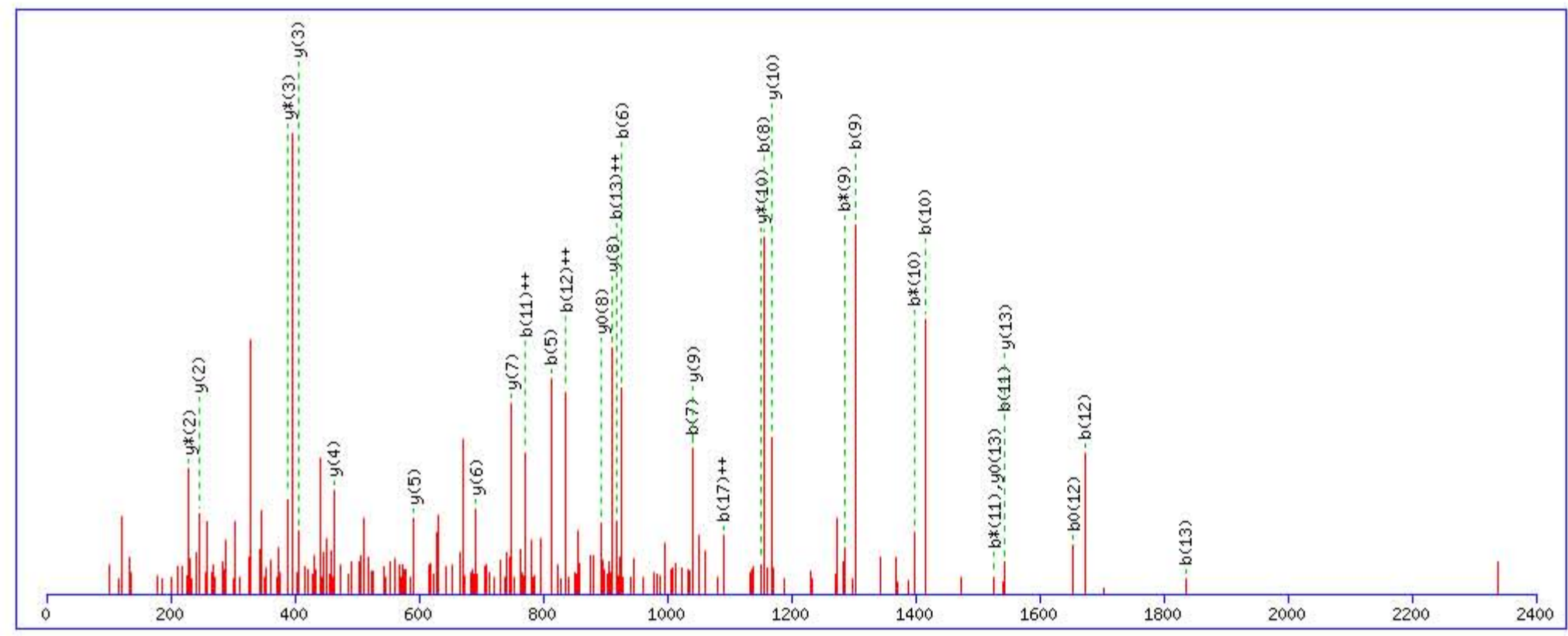
**MASCOT** Mascot Search Results

**Peptide View**

MS/MS Fragmentation of **AACAQLNDFLQEYGTQGCQV**  
 Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

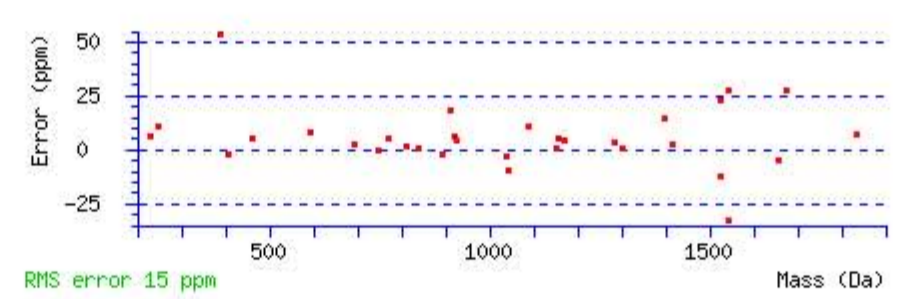
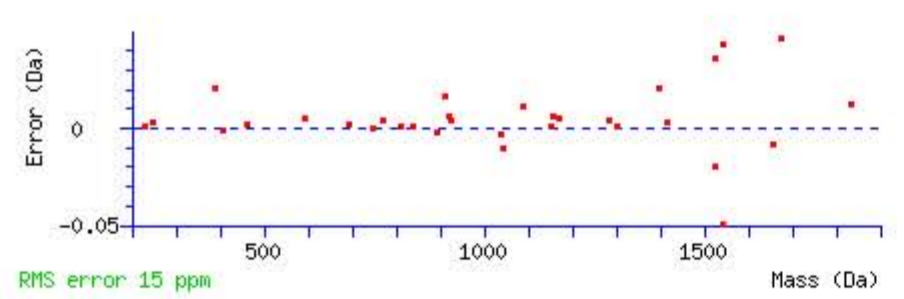
Match to Query 49357: 2583.165192 from(862.062340,3+) rtinseconds(2731) index(50237)  
 Title: Locus:1.1.1.3662.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2583.155624  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q5 : Biotin:Thermo-21345 (Q)  
 Ions Score: 65 Expect: 3e-006  
 Matches : 32/194 fragment ions using 52 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							20
2	143.081504	72.044390					A	2513.125782	1257.066529	2496.099233	1248.553254	2495.115217	1248.061246	19
3	303.112153	152.059714					C	2442.088668	1221.547972	2425.062119	1213.034697	2424.078103	1212.542689	18
4	374.149267	187.578271					A	2282.058019	1141.532647	2265.031470	1133.019373	2264.047454	1132.527365	17
5	<b>813.374593</b>	407.190935	796.348044	398.677660			Q	2211.020905	1106.014090	2193.994356	1097.500816	2193.010340	1097.008808	16
6	<b>926.458657</b>	463.732967	909.432108	455.219692			L	1771.795579	886.401428	1754.769030	877.888153	1753.785014	877.396145	15
7	<b>1040.501584</b>	520.754430	1023.475035	512.241155			N	1658.711515	829.859396	1641.684966	821.346121	1640.700950	820.854113	14
8	<b>1155.528527</b>	578.267902	1138.501978	569.754627	1137.517962	569.262619	D	<b>1544.668588</b>	772.837932	1527.642039	764.324658	<b>1526.658023</b>	763.832650	13
9	<b>1302.596941</b>	651.802109	<b>1285.570392</b>	643.288834	1284.586376	642.796826	F	1429.641645	715.324460	1412.615096	706.811186	1411.631080	706.319178	12
10	<b>1415.681005</b>	708.344141	<b>1398.654456</b>	699.830866	1397.670440	699.338858	L	1282.573231	641.790253	1265.546682	633.276979	1264.562666	632.784971	11
11	<b>1543.739583</b>	<b>772.373430</b>	<b>1526.713034</b>	763.860155	1525.729018	763.368147	Q	<b>1169.489167</b>	585.248222	<b>1152.462618</b>	576.734947	1151.478602	576.242939	10
12	<b>1672.782176</b>	<b>836.894726</b>	1655.755627	828.381452	<b>1654.771611</b>	827.889444	E	<b>1041.430589</b>	521.218932	1024.404040	512.705658	1023.420024	512.213650	9
13	<b>1835.845505</b>	<b>918.426391</b>	1818.818956	909.913116	1817.834940	909.421108	Y	<b>912.387996</b>	456.697636	895.361447	448.184361	<b>894.377431</b>	447.692353	8
14	1892.866969	946.937123	1875.840420	938.423848	1874.856404	937.931840	G	<b>749.324667</b>	375.165971	732.298118	366.652697	731.314102	366.160689	7
15	1993.914648	997.460962	1976.888099	988.947688	1975.904083	988.455680	T	<b>692.303203</b>	346.655239	675.276654	338.141965	674.292638	337.649957	6
16	2121.973226	1061.490251	2104.946677	1052.976976	2103.962661	1052.484968	Q	<b>591.255524</b>	296.131400	574.228975	287.618125			5
17	2178.994690	<b>1090.000983</b>	2161.968141	1081.487708	2160.984125	1080.995700	G	<b>463.196946</b>	232.102111	446.170397	223.588836			4
18	2339.025339	1170.016307	2321.998790	1161.503033	2321.014774	1161.011025	C	<b>406.175482</b>	203.591379	<b>389.148933</b>	195.078104			3
19	2467.083917	1234.045596	2450.057368	1225.532322	2449.073352	1225.040314	Q	<b>246.144833</b>	123.576054	<b>229.118284</b>	115.062780			2
20							V	118.086255	59.546765					1



NCBI BLAST search of [AACAQLNDFLQEYGTQGCQV](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
64.7	2583.155624	0.009568	<a href="#">AACAQLNDFLQEYGTQGCQV</a>
21.7	2583.155624	0.009568	<a href="#">AACAQLNDFLQEYGTQGCQV</a>





# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **GQAGLQR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 12627: 1039.550328 from(520.782440,2+) rtinseconds(1460) index(42646)

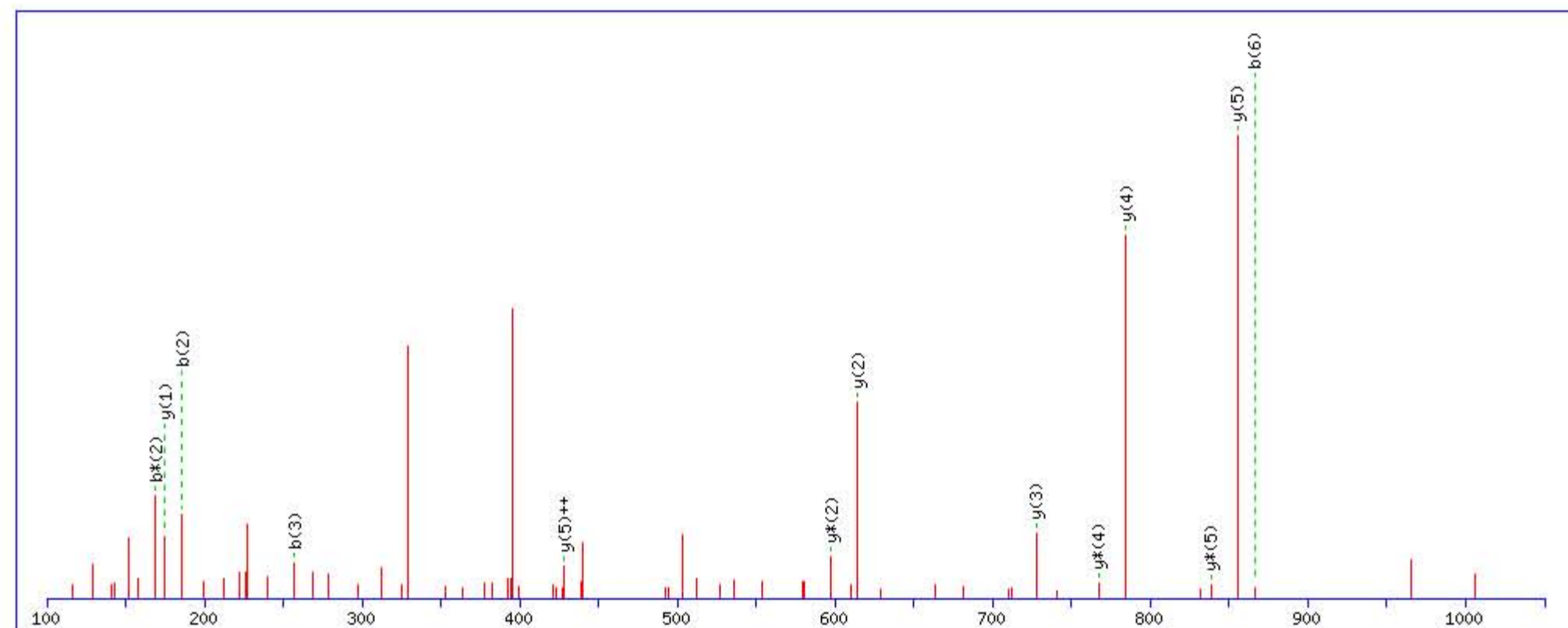
Title: Locus:1.1.1.3221.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1039.559677

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

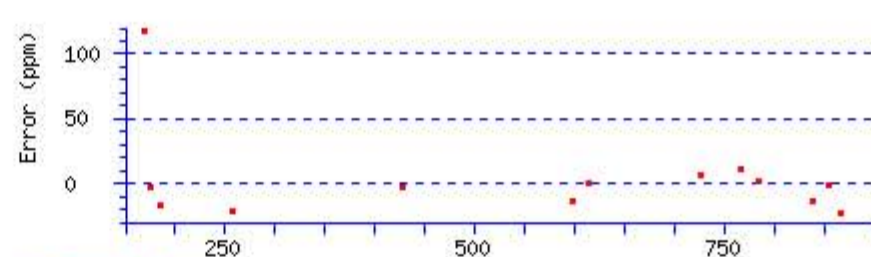
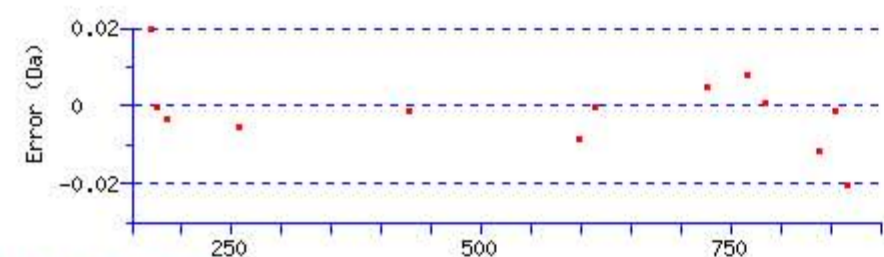
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 27 Expect: 0.028

Matches : 13/46 fragment ions using 26 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	58.028740	29.518008			<b>G</b>					7
2	<b>186.087318</b>	93.547297	<b>169.060769</b>	85.034023	<b>Q</b>	983.545498	492.276387	966.518949	483.763113	6
3	<b>257.124432</b>	129.065854	240.097883	120.552580	<b>A</b>	<b>855.486920</b>	<b>428.247098</b>	<b>838.460371</b>	419.733824	5
4	314.145896	157.576586	297.119347	149.063312	<b>G</b>	<b>784.449806</b>	392.728541	<b>767.423257</b>	384.215267	4
5	427.229960	214.118618	410.203411	205.605344	<b>L</b>	<b>727.428342</b>	364.217809	710.401793	355.704535	3
6	<b>866.455286</b>	433.731281	849.428737	425.218007	<b>Q</b>	<b>614.344278</b>	307.675777	<b>597.317729</b>	299.162503	2
7					<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549840	1



NCBI BLAST search of **GQAGLQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
26.9	1039.559677	-0.009349	<a href="#">GQAGLQR</a>
14.2	1039.559677	-0.009349	<a href="#">GQQIQR</a>
10.9	1039.541061	0.009267	<a href="#">GQGDLLQPGR</a>
7.0	1039.559677	-0.009349	<a href="#">KGGPSQR</a>
6.8	1039.541046	0.009282	<a href="#">NATTAPNPVR</a>
5.3	1039.552277	-0.001949	<a href="#">GQPQELGRR</a>
4.3	1039.552277	-0.001949	<a href="#">QRAALDGGPR</a>
1.8	1039.563492	-0.013164	<a href="#">AEGARARGPR</a>
1.8	1039.563492	-0.013164	<a href="#">SSHLRERR</a>
1.5	1039.541061	0.009267	<a href="#">AGVTTPAPGNR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **AAANQMR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 13331: 1071.528988 from(536.771770,2+) rtinseconds(1406) index(42337)

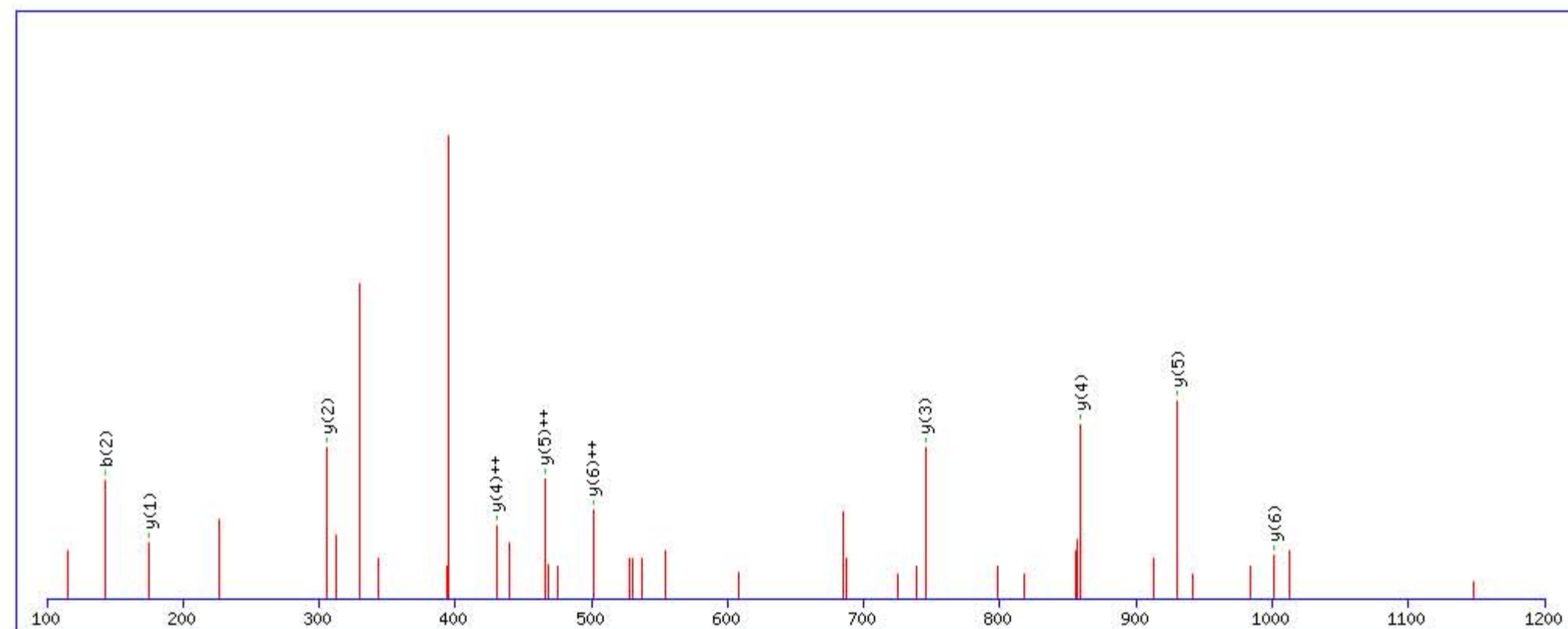
Title: Locus:1.1.1.3202.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1071.531723

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

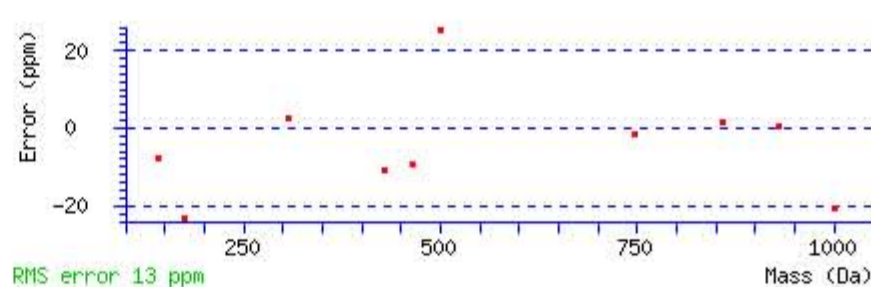
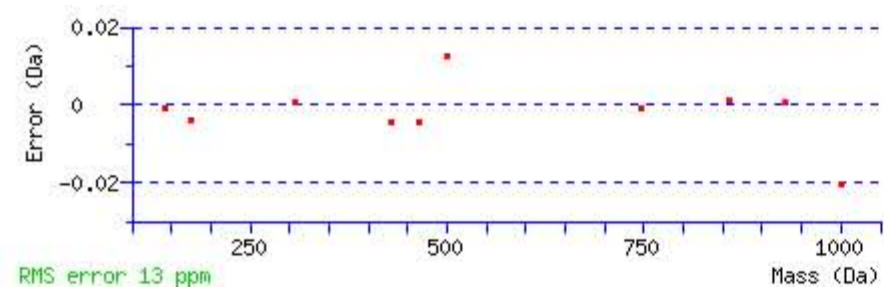
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 29 Expect: 0.024

Matches : 10/42 fragment ions using 26 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	72.044390	36.525833			A					7
2	143.081504	72.044390			A	1001.501918	501.254597	984.475369	492.741323	6
3	214.118618	107.562947			A	930.464804	465.736040	913.438255	457.222766	5
4	328.161545	164.584410	311.134996	156.071136	N	859.427690	430.217483	842.401141	421.704209	4
5	767.386871	384.197074	750.360322	375.683799	Q	745.384763	373.196020	728.358214	364.682745	3
6	898.427356	449.717316	881.400807	441.204042	M	306.159437	153.583357	289.132888	145.070082	2
7					R	175.118952	88.063114	158.092403	79.549840	1



NCBI BLAST search of [AAANQMR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
28.6	1071.531723	-0.002735	<a href="#">AAANQMR</a>
15.9	1071.530853	-0.001865	<a href="#">AAEESGAKGPR</a>
5.4	1071.519608	0.009380	<a href="#">AAESAEIEPR</a>
5.4	1071.539597	-0.010609	<a href="#">HHLIEHMR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VQQPDCR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 17990: 1212.569008 from(607.291780,2+) rtinseconds(1327) index(41941)

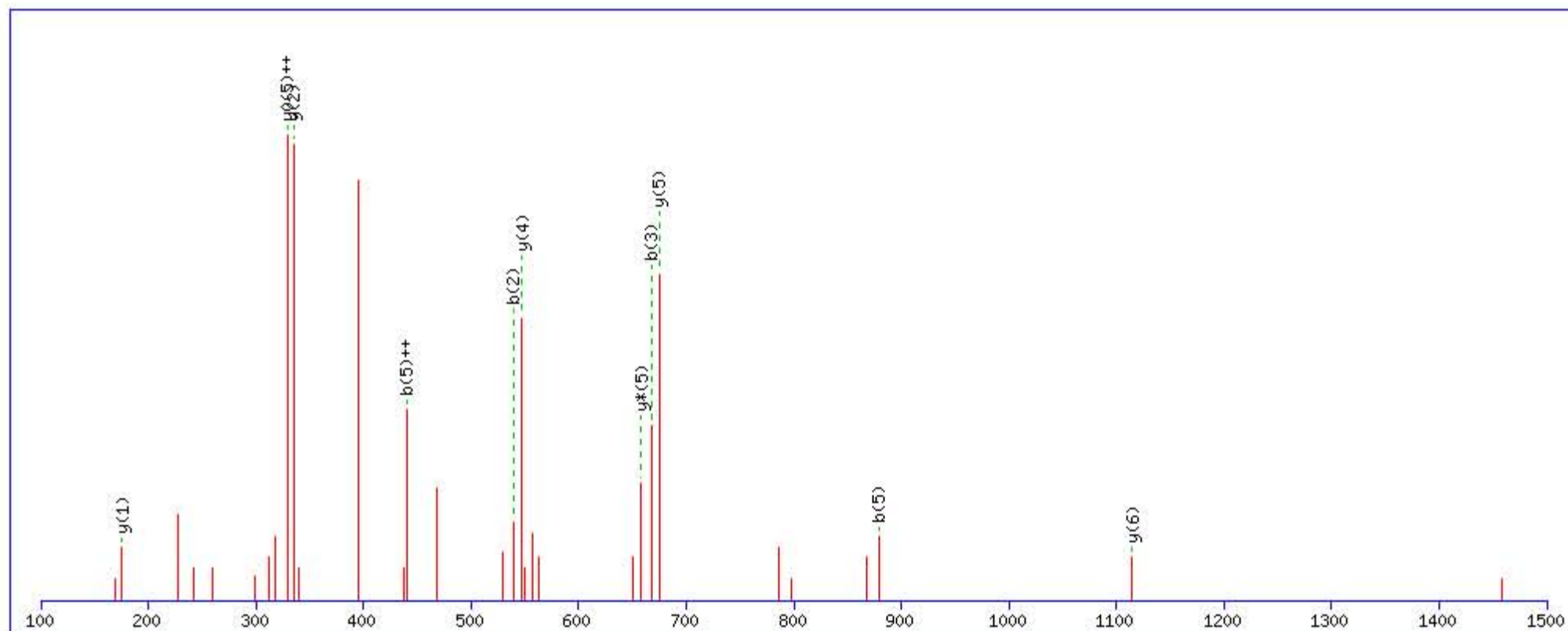
Title: Locus:1.1.1.3174.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1212.574356

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

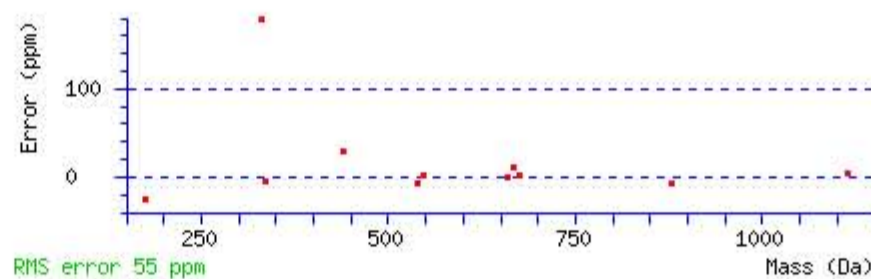
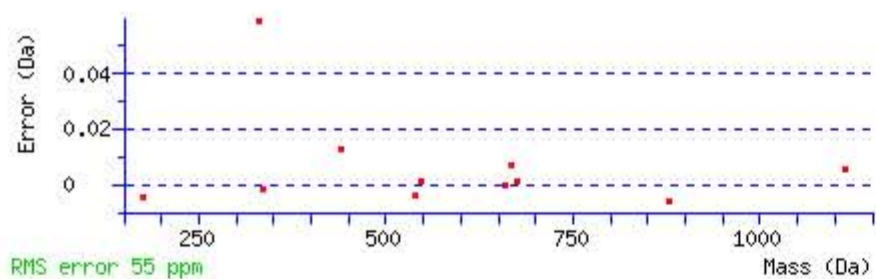
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 35 Expect: 0.00063

Matches : 11/58 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							7
2	<b>539.301016</b>	270.154146	522.274467	261.640872			Q	<b>1114.513212</b>	557.760244	1097.486663	549.246970	1096.502647	548.754962	6
3	<b>667.359594</b>	334.183435	650.333045	325.670161			Q	<b>675.287886</b>	338.147581	<b>658.261337</b>	329.634307	657.277321	<b>329.142299</b>	5
4	764.412358	382.709817	747.385809	374.196543			P	<b>547.229308</b>	274.118292	530.202759	265.605018	529.218743	265.113010	4
5	<b>879.439301</b>	<b>440.223289</b>	862.412752	431.710014	861.428736	431.218006	D	450.176544	225.591910	433.149995	217.078635	432.165979	216.586627	3
6	1039.469950	520.238613	1022.443401	511.725339	1021.459385	511.233331	C	<b>335.149601</b>	168.078438	318.123052	159.565164			2
7							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VQQPDCR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
34.8	1212.574356	-0.005348	<a href="#">VQQPDCR</a>
15.7	1212.574356	-0.005348	<a href="#">VQQPDCR</a>
0.7	1212.582199	-0.013191	<a href="#">GRMPPSEFHR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **VEYGFQVK**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 19793: 1279.659568 from(640.837060,2+) rtinseconds(2000) index(31887)

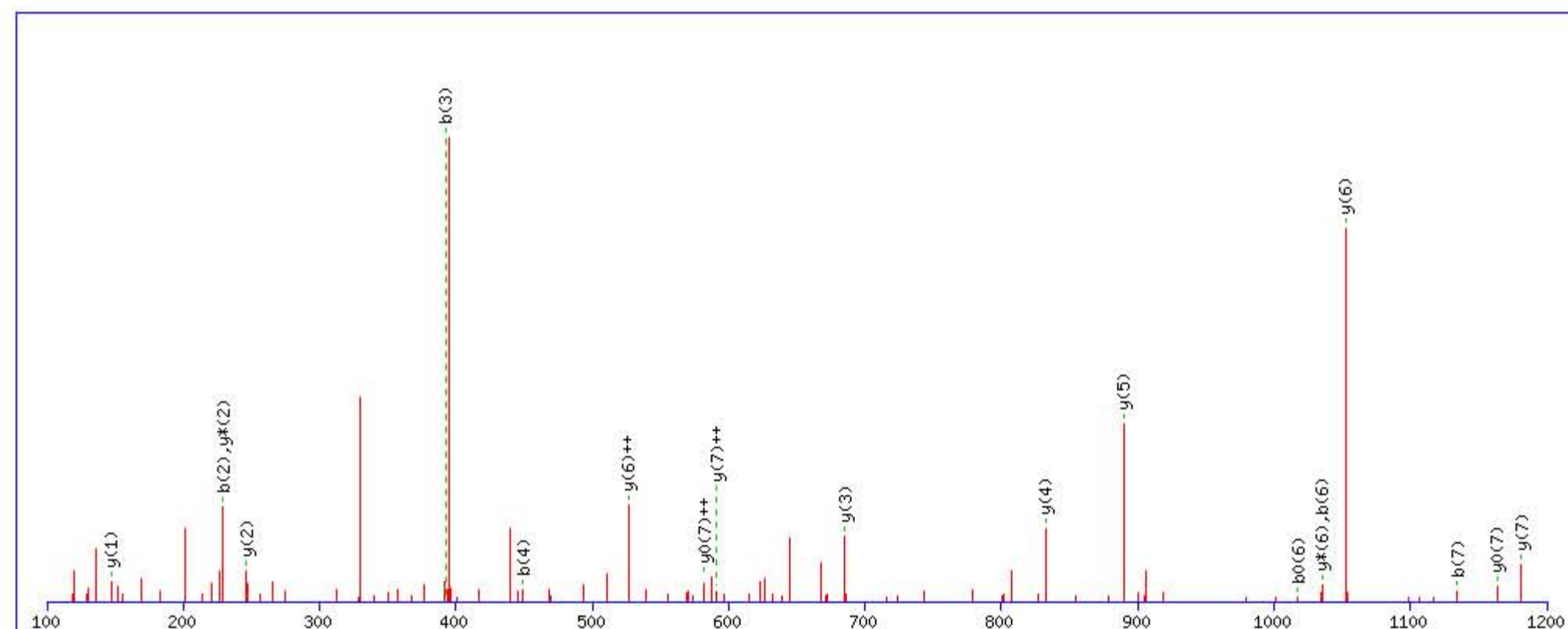
Title: Locus:1.1.1.3360.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1279.663483

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

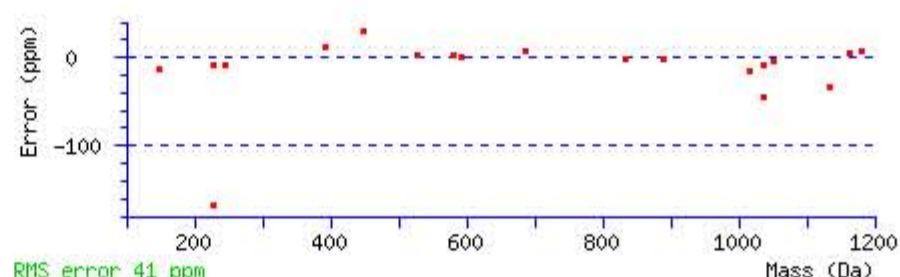
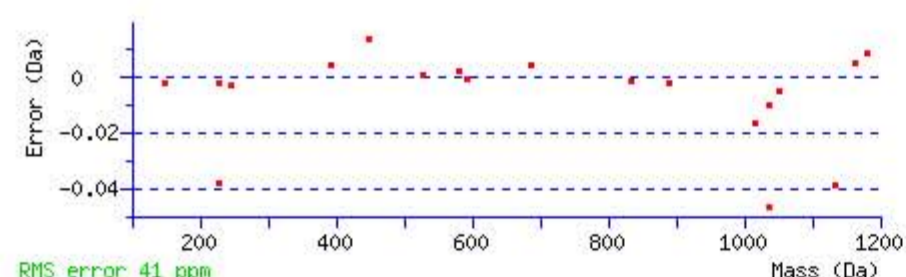
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.01

Matches : 19/60 fragment ions using 51 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							8
2	<b>229.118283</b>	115.062780			211.107718	106.057497	E	<b>1181.602344</b>	<b>591.304810</b>	1164.575795	582.791536	<b>1163.591779</b>	<b>582.299528</b>	7
3	<b>392.181612</b>	196.594444			374.171047	187.589162	Y	<b>1052.559751</b>	<b>526.783514</b>	<b>1035.533202</b>	518.270239			6
4	<b>449.203076</b>	225.105176			431.192511	216.099894	G	<b>889.496422</b>	445.251849	872.469873	436.738575			5
5	596.271490	298.639383			578.260925	289.634101	F	<b>832.474958</b>	416.741117	815.448409	408.227843			4
6	<b>1035.496816</b>	518.252046	1018.470267	509.738772	<b>1017.486251</b>	509.246764	Q	<b>685.406544</b>	343.206910	668.379995	334.693636			3
7	<b>1134.565230</b>	567.786253	1117.538681	559.272979	1116.554665	558.780971	V	<b>246.181218</b>	123.594247	<b>229.154669</b>	115.080973			2
8							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VEYGFQVK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
25.6	1279.663483	-0.003915	<a href="#">VEYGFQVK</a>
4.1	1279.663483	-0.003915	<a href="#">QFVGYLDK</a>
2.1	1279.677216	-0.017648	<a href="#">VFKTEDTQGKK</a>
0.5	1279.659470	0.000098	<a href="#">VCSFGKQVVEK</a>
0.4	1279.652039	0.007529	<a href="#">VERAITEASPAH</a>
0.3	1279.652054	0.007514	<a href="#">DAHDPQDKKVK</a>
0.1	1279.677200	-0.017632	<a href="#">EYVGKTSLVER</a>

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

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VVEEQESR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 20080: 1285.627528 from(643.821040,2+) rtinseconds(1386) index(28142)

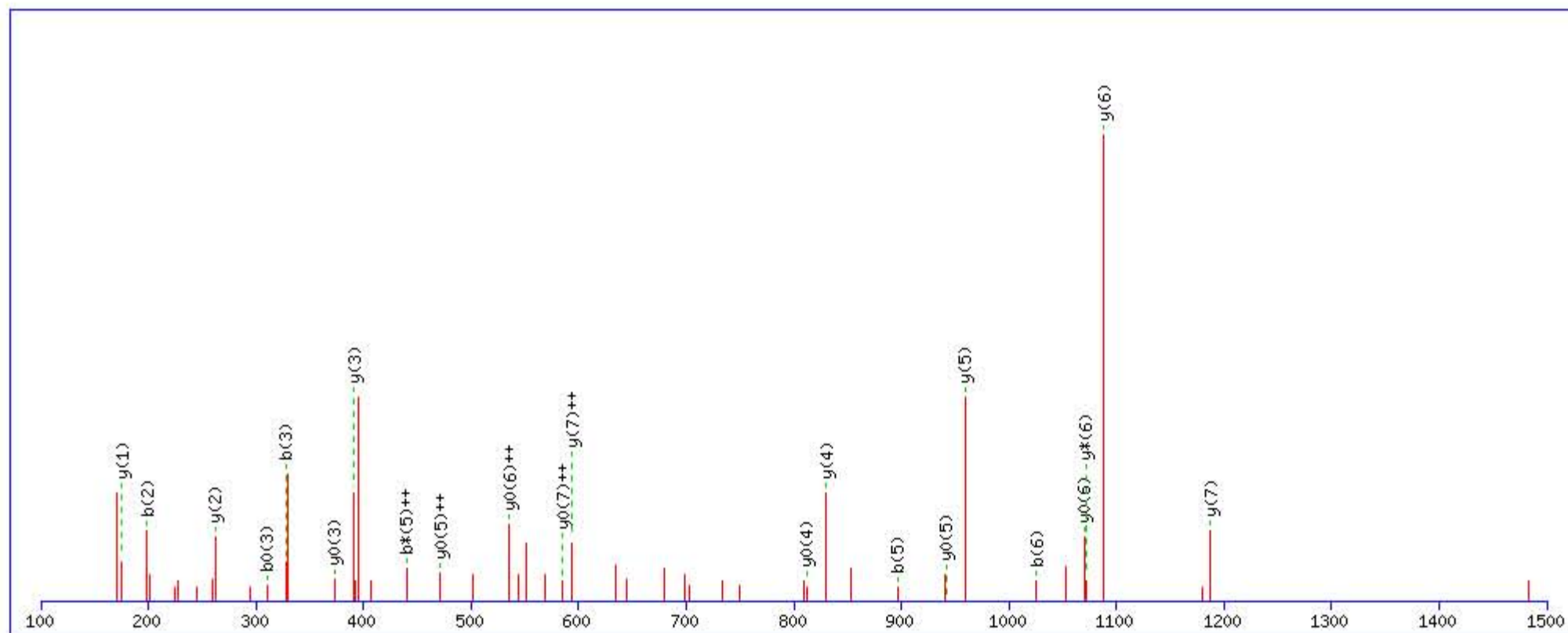
Title: Locus:1.1.1.3145.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1285.633621

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

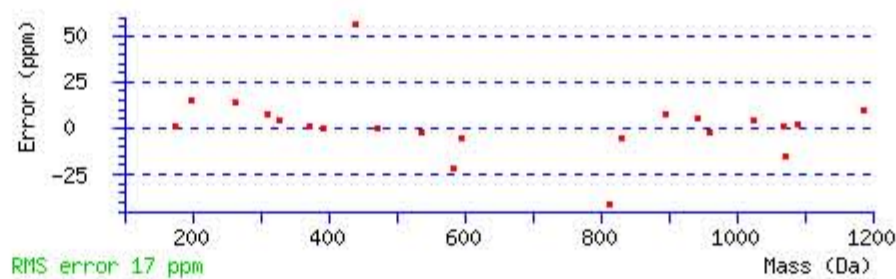
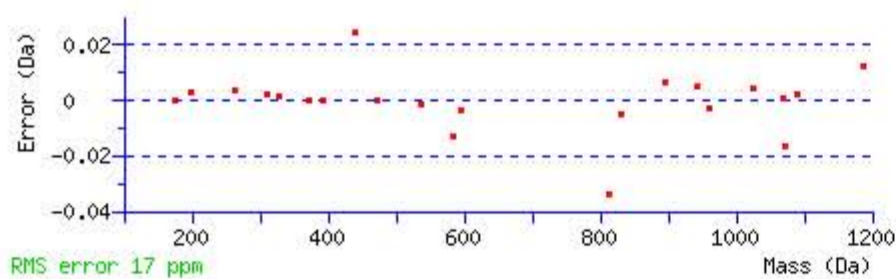
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 42 Expect: 0.0012

Matches : 22/70 fragment ions using 38 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							8
2	<b>199.144104</b>	100.075690					V	<b>1187.572499</b>	<b>594.289888</b>	1170.545950	585.776613	1169.561934	<b>585.284605</b>	7
3	<b>328.186697</b>	164.596987			<b>310.176132</b>	155.591704	E	<b>1088.504085</b>	544.755681	<b>1071.477536</b>	536.242406	<b>1070.493520</b>	<b>535.750398</b>	6
4	457.229290	229.118283			439.218725	220.113001	E	<b>959.461492</b>	480.234384	942.434943	471.721110	<b>941.450927</b>	<b>471.229102</b>	5
5	<b>896.454616</b>	448.730946	879.428067	<b>440.217672</b>	878.444051	439.725664	Q	<b>830.418899</b>	415.713088	813.392350	407.199813	<b>812.408334</b>	406.707805	4
6	<b>1025.497209</b>	513.252243	1008.470660	504.738968	1007.486644	504.246960	E	<b>391.193573</b>	196.100425	374.167024	187.587150	<b>373.183008</b>	187.095142	3
7	1112.529237	556.768257	1095.502688	548.254982	1094.518672	547.762974	S	<b>262.150980</b>	131.579128	245.124431	123.065854	244.140415	122.573846	2
8							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [VVEEQESR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
42.0	1285.633621	-0.006093	<a href="#">VVEEQESR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **LGQYASPTAK**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 21270: 1345.697228 from(673.855890,2+) rtinseconds(1635) index(29667)

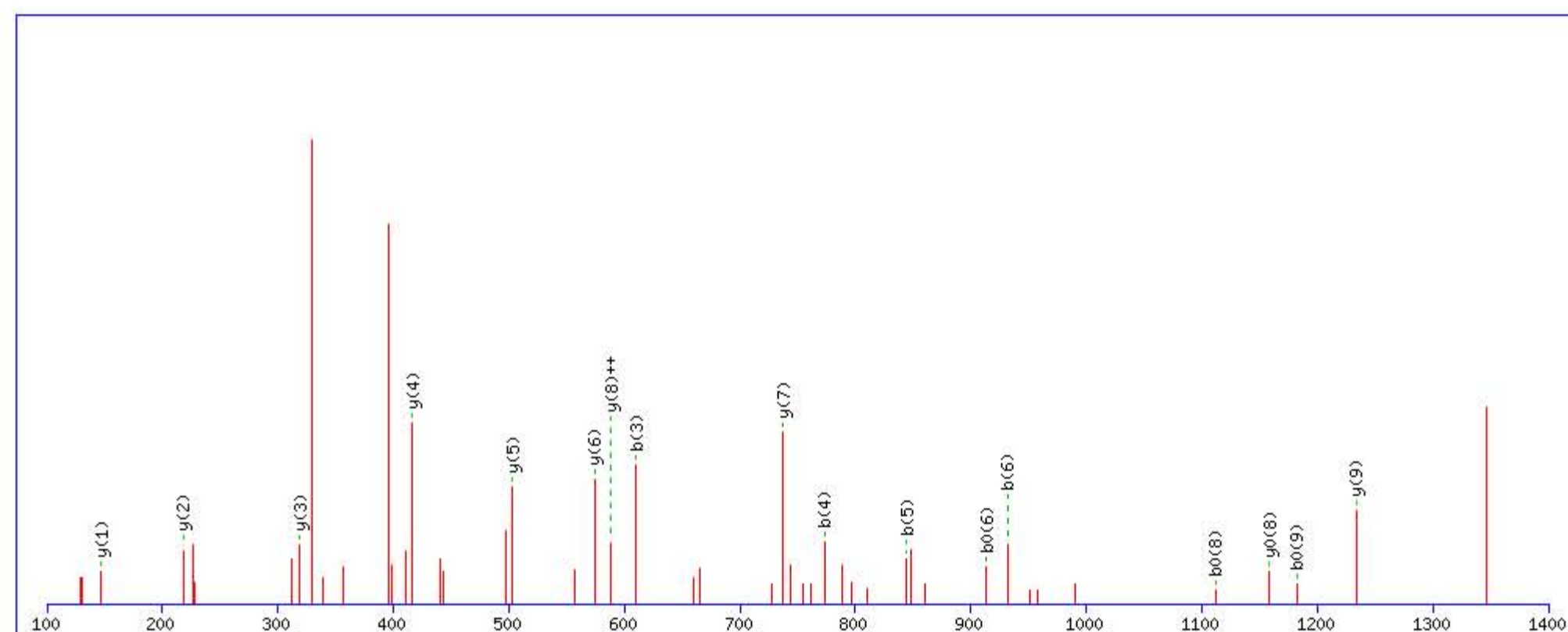
Title: Locus:1.1.1.3232.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1345.706390

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

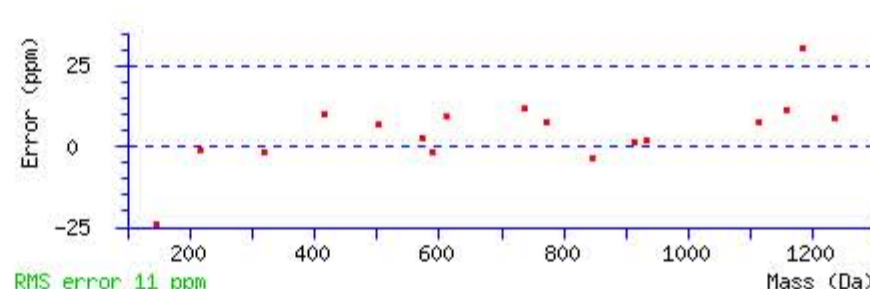
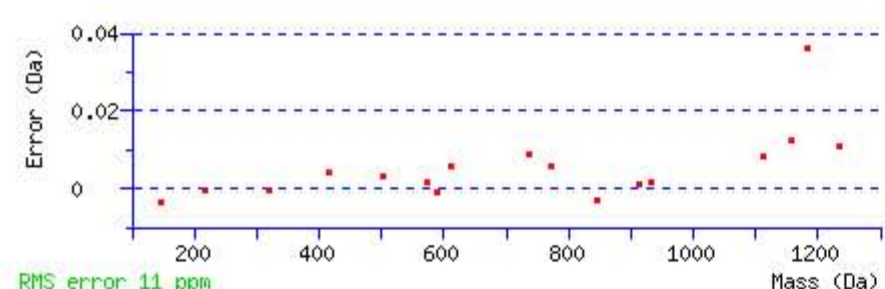
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 51 Expect: 8.5e-005

Matches : 17/90 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							10
2	171.112804	86.060040					G	<b>1233.629622</b>	617.318449	1216.603073	608.805175	1215.619057	608.313167	9
3	<b>610.338130</b>	305.672703	593.311581	297.159429			Q	1176.608158	<b>588.807717</b>	1159.581609	580.294443	<b>1158.597593</b>	579.802435	8
4	<b>773.401459</b>	387.204368	756.374910	378.691093			Y	<b>737.382832</b>	369.195054	720.356283	360.681780	719.372267	360.189772	7
5	<b>844.438573</b>	422.722925	827.412024	414.209650			A	<b>574.319503</b>	287.663389	557.292954	279.150115	556.308938	278.658107	6
6	<b>931.470601</b>	466.238939	914.444052	457.725664	<b>913.460036</b>	457.233656	S	<b>503.282389</b>	252.144832	486.255840	243.631558	485.271824	243.139550	5
7	1028.523365	514.765321	1011.496816	506.252046	1010.512800	505.760038	P	<b>416.250361</b>	208.628818	399.223812	200.115544	398.239796	199.623536	4
8	1129.571044	565.289160	1112.544495	556.775886	<b>1111.560479</b>	556.283878	T	<b>319.197597</b>	160.102436	302.171048	151.589162	301.187032	151.097154	3
9	1200.608158	600.807717	1183.581609	592.294443	<b>1182.597593</b>	591.802435	A	<b>218.149918</b>	109.578597	201.123369	101.065322			2
10							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LGQYASPTAK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
50.9	1345.706390	-0.009162	<a href="#">LGQYASPTAK</a>
7.1	1345.706406	-0.009178	<a href="#">QGLYTPQTK</a>
6.7	1345.706390	-0.009162	<a href="#">LGQYDQALK</a>
6.2	1345.692474	0.004754	<a href="#">VASCRYPALGPR</a>
2.6	1345.681213	0.016015	<a href="#">ENKMTWAPKMK</a>
1.0	1345.692505	0.004723	<a href="#">DHTVFGRVMLR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **ITQVLHFTK**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 23538: 1396.788582 from(466.603470,3+) rtinseconds(1965) index(45767)

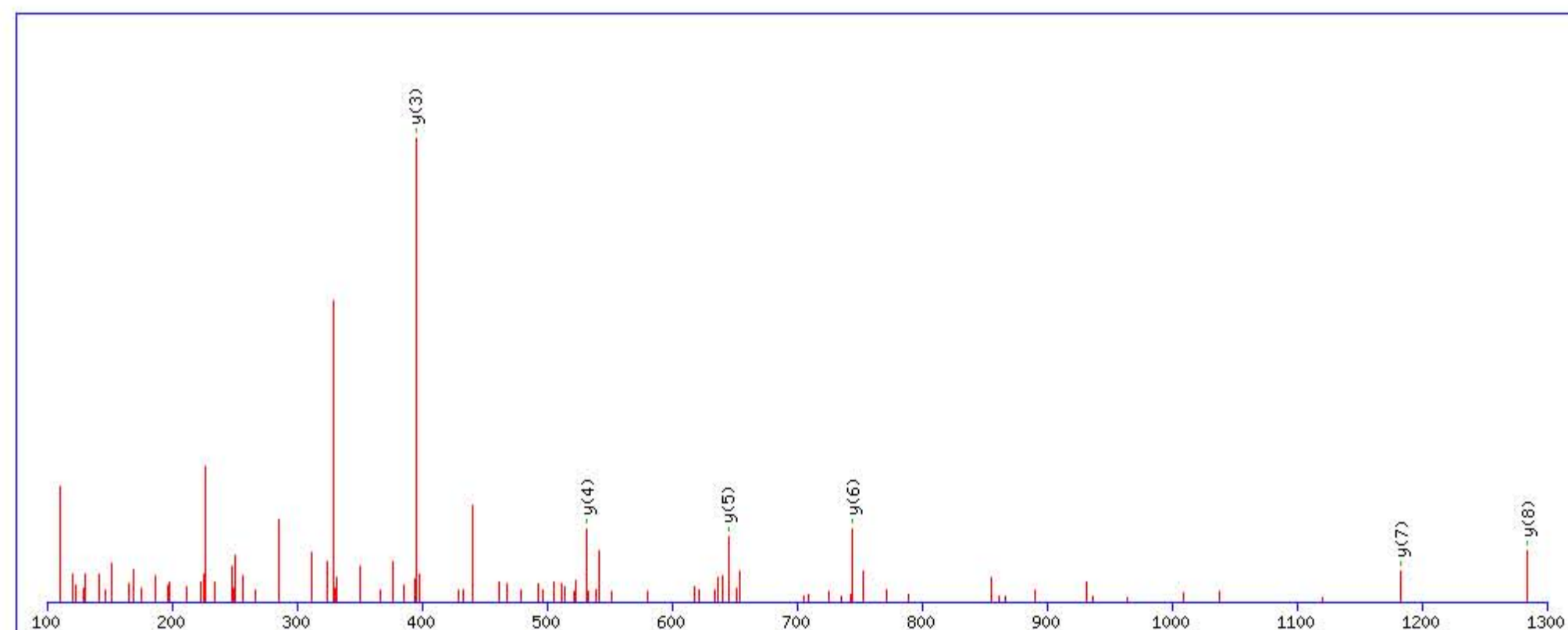
Title: Locus:1.1.1.3397.3 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1396.790085

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

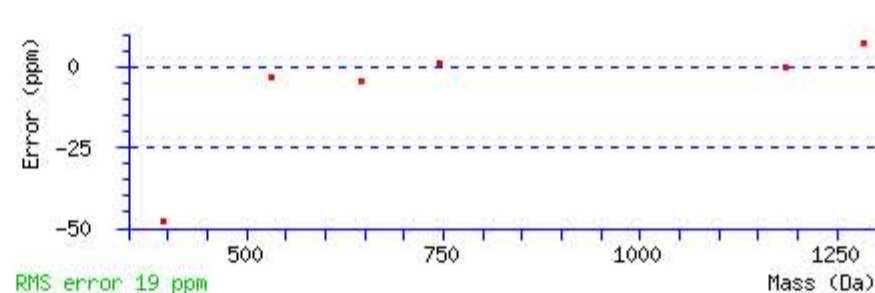
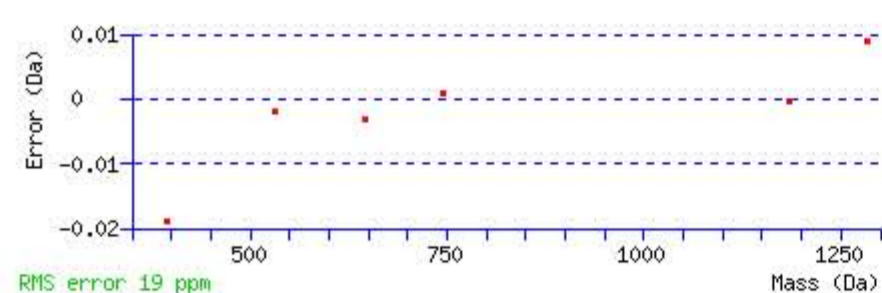
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 35 Expect: 0.00061

Matches : 6/88 fragment ions using 12 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							9
2	215.139019	108.073147			197.128454	99.067865	T	1284.713292	642.860284	1267.686743	634.347010	1266.702727	633.855002	8
3	654.364345	327.685811	637.337796	319.172536	636.353780	318.680528	Q	1183.665613	592.336445	1166.639064	583.823170	1165.655048	583.331162	7
4	753.432759	377.220018	736.406210	368.706743	735.422194	368.214735	V	744.440287	372.723782	727.413738	364.210507	726.429722	363.718499	6
5	866.516823	433.762050	849.490274	425.248775	848.506258	424.756767	L	645.371873	323.189575	628.345324	314.676300	627.361308	314.184292	5
6	1003.575735	502.291506	986.549186	493.778231	985.565170	493.286223	H	532.287809	266.647543	515.261260	258.134268	514.277244	257.642260	4
7	1150.644149	575.825713	1133.617600	567.312438	1132.633584	566.820430	F	395.228897	198.118086	378.202348	189.604812	377.218332	189.112804	3
8	1251.691828	626.349552	1234.665279	617.836278	1233.681263	617.344270	T	248.160483	124.583879	231.133934	116.070605	230.149918	115.578597	2
9							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **ITQVLHFTK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
34.6	1396.790085	-0.001503	<a href="#">ITQVLHFTK</a>
0.3	1396.792557	-0.003975	<a href="#">LLGELQEQIVQK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **GLEEELQFSLGSK**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 34611: 1746.895648 from(874.455100,2+) rtinseconds(2556) index(49068)

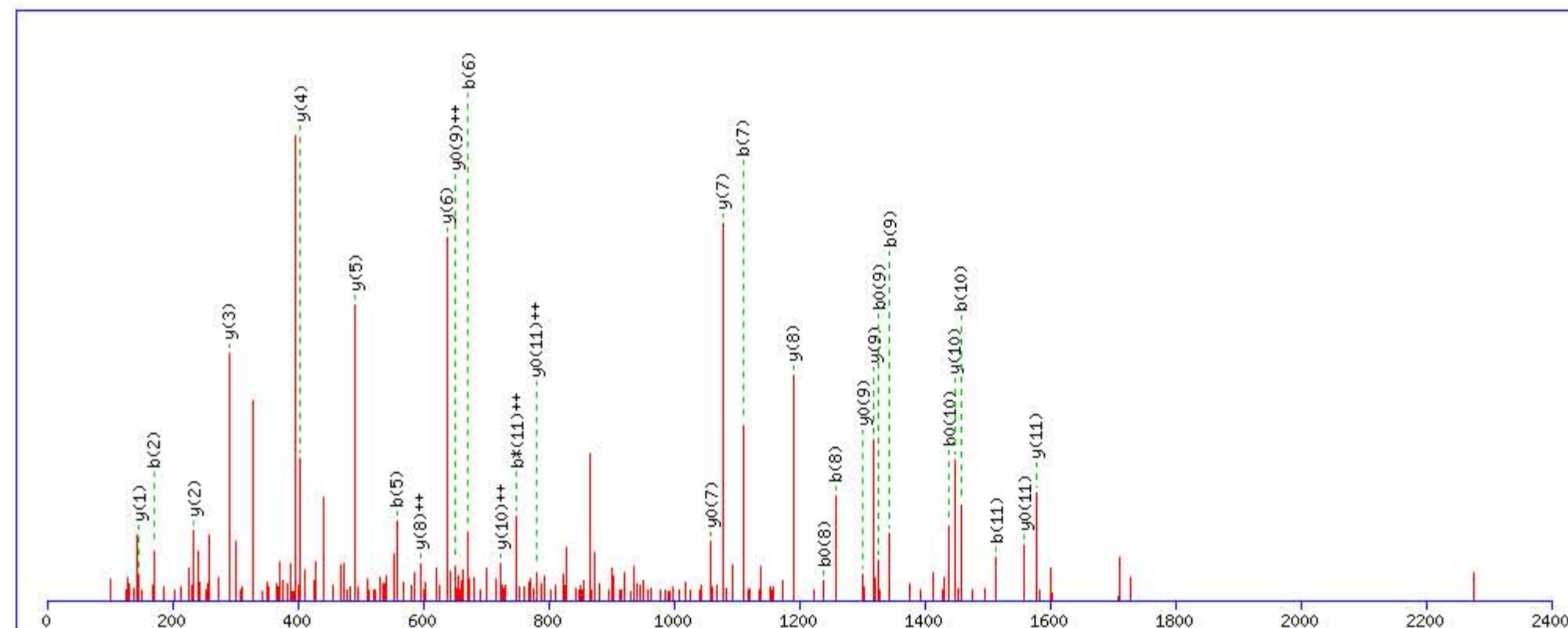
Title: Locus:1.1.1.3602.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1746.886200

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

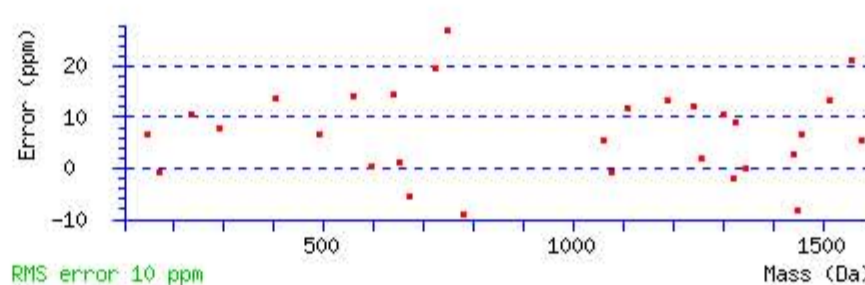
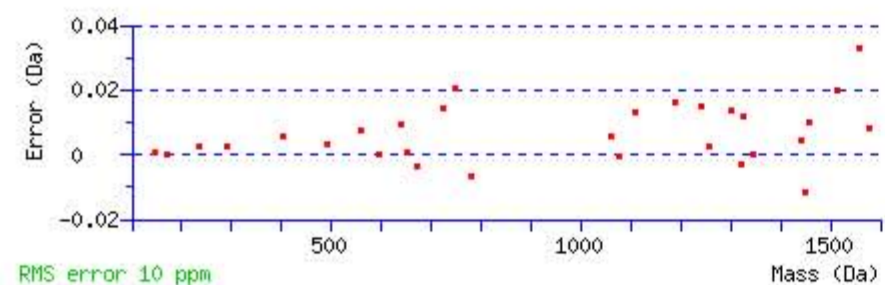
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 80 Expect: 6.9e-008

Matches : 30/126 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							13
2	<b>171.112804</b>	86.060040					L	1690.872035	845.939656	1673.845486	837.426381	1672.861470	836.934373	12
3	300.155397	150.581336			282.144832	141.576054	E	<b>1577.787971</b>	789.397624	1560.761422	780.884349	<b>1559.777406</b>	<b>780.392341</b>	11
4	429.197990	215.102633			411.187425	206.097351	E	<b>1448.745378</b>	<b>724.876327</b>	1431.718829	716.363053	1430.734813	715.871045	10
5	<b>558.240583</b>	279.623930			540.230018	270.618647	E	<b>1319.702785</b>	660.355031	1302.676236	651.841756	<b>1301.692220</b>	<b>651.349748</b>	9
6	<b>671.324647</b>	336.165962			653.314082	327.160679	L	<b>1190.660192</b>	<b>595.833734</b>	1173.633643	587.320460	1172.649627	586.828452	8
7	<b>1110.549973</b>	555.778624	1093.523424	547.265350	1092.539408	546.773342	Q	<b>1077.576128</b>	539.291702	1060.549579	530.778428	<b>1059.565563</b>	530.286419	7
8	<b>1257.618387</b>	629.312832	1240.591838	620.799557	<b>1239.607822</b>	620.307549	F	<b>638.350802</b>	319.679039	621.324253	311.165765	620.340237	310.673757	6
9	<b>1344.650415</b>	672.828846	1327.623866	664.315571	<b>1326.639850</b>	663.823563	S	<b>491.282388</b>	246.144832	474.255839	237.631557	473.271823	237.139549	5
10	<b>1457.734479</b>	729.370878	1440.707930	720.857603	<b>1439.723914</b>	720.365595	L	<b>404.250360</b>	202.628818	387.223811	194.115543	386.239795	193.623535	4
11	<b>1514.755943</b>	757.881609	1497.729394	<b>749.368335</b>	1496.745378	748.876327	G	<b>291.166296</b>	146.086786	274.139747	137.573512	273.155731	137.081504	3
12	1601.787971	801.397624	1584.761422	792.884349	1583.777406	792.392341	S	<b>234.144832</b>	117.576054	217.118283	109.062780	216.134267	108.570772	2
13							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **GLEEELQFSLGSK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
79.6	1746.886200	0.009448	<a href="#">GLEEELQFSLGSK</a>
3.2	1746.887558	0.008090	<a href="#">AVQSKAFCAGGLAPGWK</a>

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



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VLSLAQEQVGGSP**EK

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 36652: 1851.976662 from(618.332830,3+) rtinseconds(2001) index(46074)

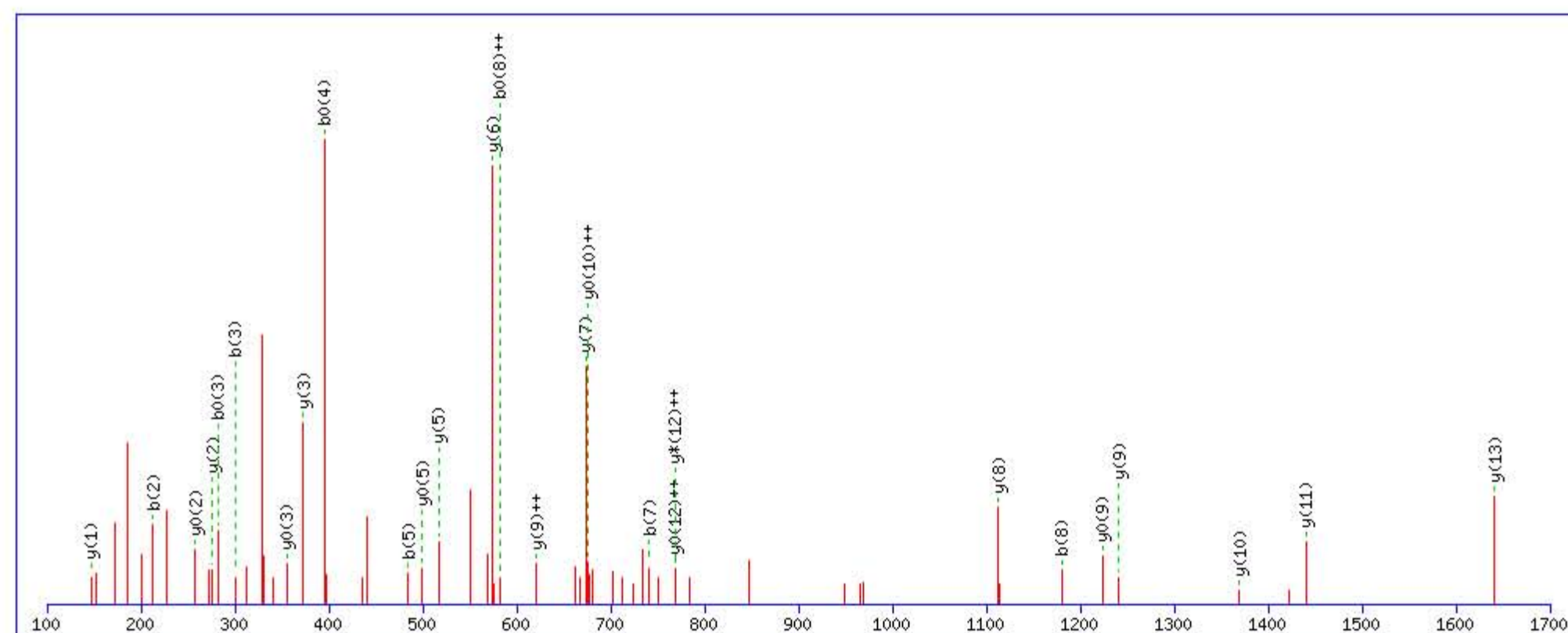
Title: Locus:1.1.1.3409.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1851.976425

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

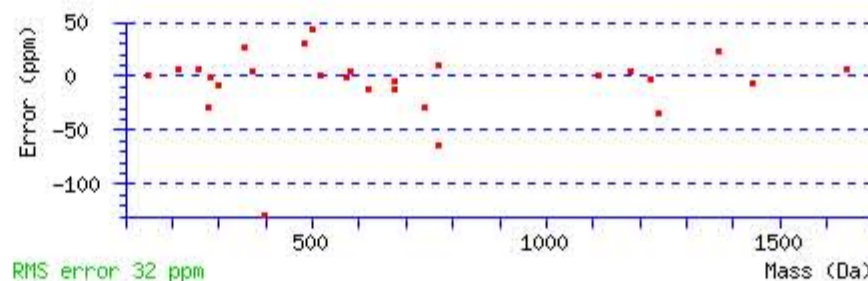
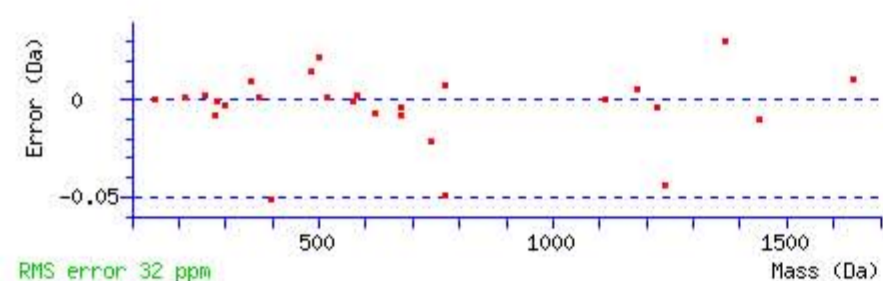
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 58 Expect: 3.7e-005

Matches : 27/152 fragment ions using 57 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							15
2	<b>213.159754</b>	107.083515					L	1753.915298	877.461287	1736.888749	868.948013	1735.904733	868.456004	14
3	<b>300.191782</b>	150.599529			<b>282.181217</b>	141.594247	S	<b>1640.831234</b>	820.919255	1623.804685	812.405981	1622.820669	811.913973	13
4	413.275846	207.141561			<b>395.265281</b>	198.136279	L	1553.799206	777.403241	1536.772657	<b>768.889967</b>	1535.788641	<b>768.397958</b>	12
5	<b>484.312960</b>	242.660118			466.302395	233.654836	A	<b>1440.715142</b>	720.861209	1423.688593	712.347935	1422.704577	711.855927	11
6	612.371538	306.689407	595.344989	298.176133	594.360973	297.684125	Q	<b>1369.678028</b>	685.342652	1352.651479	676.829378	1351.667463	<b>676.337370</b>	10
7	<b>741.414131</b>	371.210704	724.387582	362.697429	723.403566	362.205421	E	<b>1241.619450</b>	<b>621.313363</b>	1224.592901	612.800089	<b>1223.608885</b>	612.308080	9
8	<b>1180.639457</b>	590.823367	1163.612908	582.310092	1162.628892	<b>581.818084</b>	Q	<b>1112.576857</b>	556.792066	1095.550308	548.278792	1094.566292	547.786784	8
9	1279.707871	640.357574	1262.681322	631.844299	1261.697306	631.352291	V	<b>673.351531</b>	337.179404	656.324982	328.666129	655.340966	328.174121	7
10	1336.729335	668.868306	1319.702786	660.355031	1318.718770	659.863023	G	<b>574.283117</b>	287.645197	557.256568	279.131922	556.272552	278.639914	6
11	1393.750799	697.379037	1376.724250	688.865763	1375.740234	688.373755	G	<b>517.261653</b>	259.134465	500.235104	250.621190	<b>499.251088</b>	250.129182	5
12	1480.782827	740.895052	1463.756278	732.381777	1462.772262	731.889769	S	460.240189	230.623732	443.213640	222.110458	442.229624	221.618450	4
13	1577.835591	789.421434	1560.809042	780.908159	1559.825026	780.416151	P	<b>373.208161</b>	187.107718	356.181612	178.594444	<b>355.197596</b>	178.102436	3
14	1706.878184	853.942730	1689.851635	845.429456	1688.867619	844.937447	E	<b>276.155397</b>	138.581336	259.128848	130.068062	<b>258.144832</b>	129.576054	2
15							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VLSLAQEQVGGSP**EK

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
58.3	1851.976425	0.000237	<a href="#">VLSLAQEQVGGSP</a> EK
37.0	1851.976425	0.000237	<a href="#">VLSLAQEQVGGSP</a> EK

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **GPEVQLVAHSPWLK**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 37065: 1871.013762 from(624.678530,3+) rtinseconds(2248) index(47552)

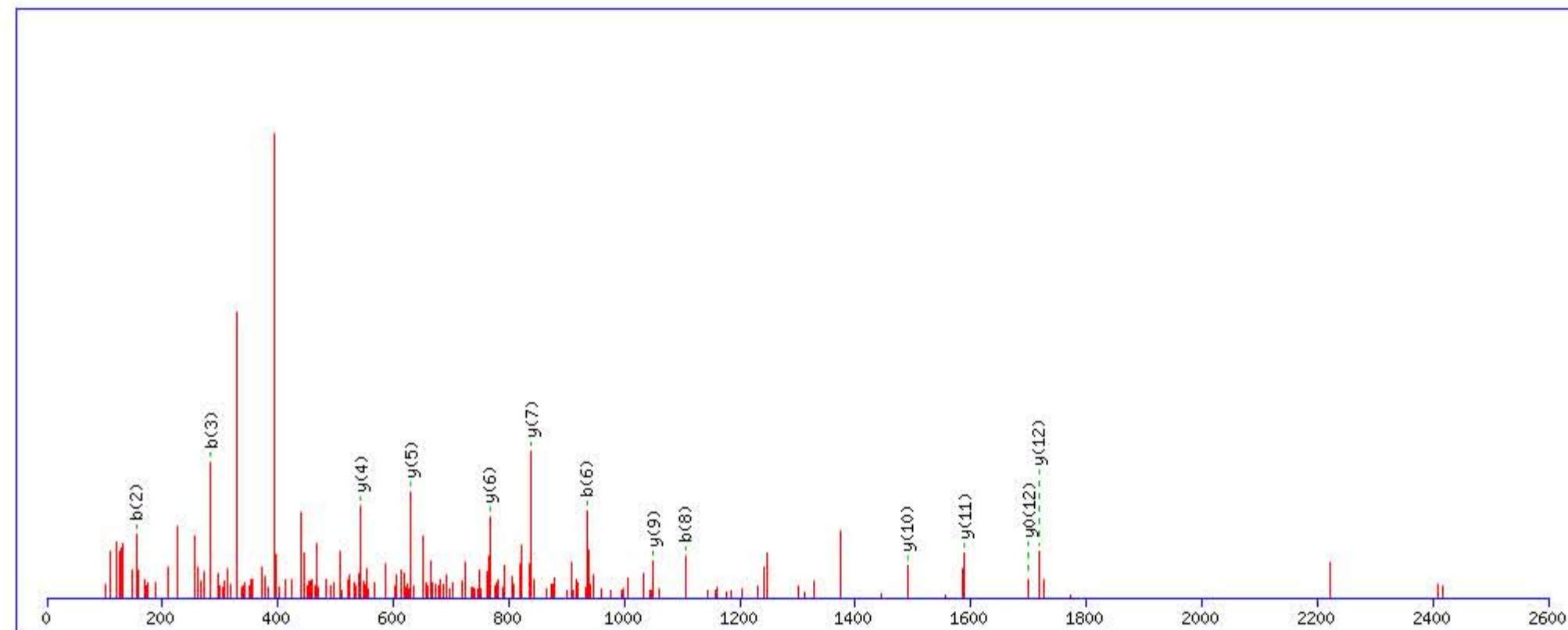
Title: Locus:1.1.1.3495.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1871.012756

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

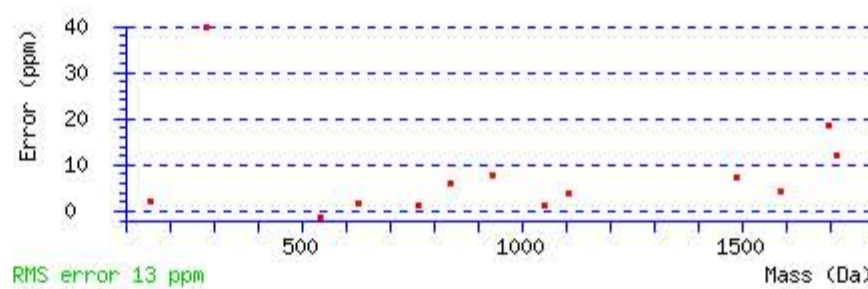
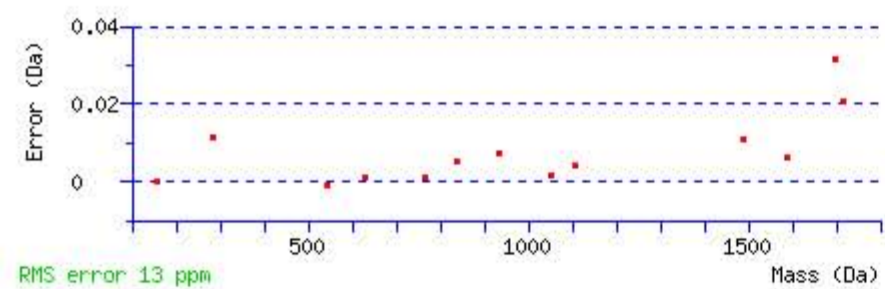
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 59 Expect: 7.5e-006

Matches : 13/136 fragment ions using 17 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					<b>G</b>							14
2	<b>155.081504</b>	78.044390					<b>P</b>	1814.998574	908.002925	1797.972025	899.489651	1796.988009	898.997643	13
3	<b>284.124097</b>	142.565687			266.113532	133.560404	<b>E</b>	<b>1717.945810</b>	859.476543	1700.919261	850.963269	<b>1699.935245</b>	850.471261	12
4	383.192511	192.099894			365.181946	183.094611	<b>V</b>	<b>1588.903217</b>	794.955247	1571.876668	786.441972	1570.892652	785.949964	11
5	822.417837	411.712557	805.391288	403.199282	804.407272	402.707274	<b>Q</b>	<b>1489.834803</b>	745.421040	1472.808254	736.907765	1471.824238	736.415757	10
6	<b>935.501901</b>	468.254589	918.475352	459.741314	917.491336	459.249306	<b>L</b>	<b>1050.609477</b>	525.808377	1033.582928	517.295102	1032.598912	516.803094	9
7	1034.570315	517.788796	1017.543766	509.275521	1016.559750	508.783513	<b>V</b>	937.525413	469.266345	920.498864	460.753070	919.514848	460.261062	8
8	<b>1105.607429</b>	553.307353	1088.580880	544.794078	1087.596864	544.302070	<b>A</b>	<b>838.456999</b>	419.732138	821.430450	411.218863	820.446434	410.726855	7
9	1242.666341	621.836809	1225.639792	613.323534	1224.655776	612.831526	<b>H</b>	<b>767.419885</b>	384.213581	750.393336	375.700306	749.409320	375.208298	6
10	1329.698369	665.352823	1312.671820	656.839548	1311.687804	656.347540	<b>S</b>	<b>630.360973</b>	315.684125	613.334424	307.170850	612.350408	306.678842	5
11	1426.751133	713.879205	1409.724584	705.365930	1408.740568	704.873922	<b>P</b>	<b>543.328945</b>	272.168111	526.302396	263.654836			4
12	1612.830446	806.918861	1595.803897	798.405587	1594.819881	797.913579	<b>W</b>	446.276181	223.641728	429.249632	215.128454			3
13	1725.914510	863.460893	1708.887961	854.947619	1707.903945	854.455611	<b>L</b>	260.196868	130.602072	243.170319	122.088797			2
14							<b>K</b>	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **GPEVQLVAHSPWLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
59.0	1871.012756	0.001006	<a href="#">GPEVQLVAHSPWLK</a>
4.4	1870.994781	0.018981	<a href="#">NVNQAKLSEHRHK</a>

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

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **HLVPGAPFLLQALVR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 38193: 1941.148422 from(648.056750,3+) rtinseconds(2881) index(51423)

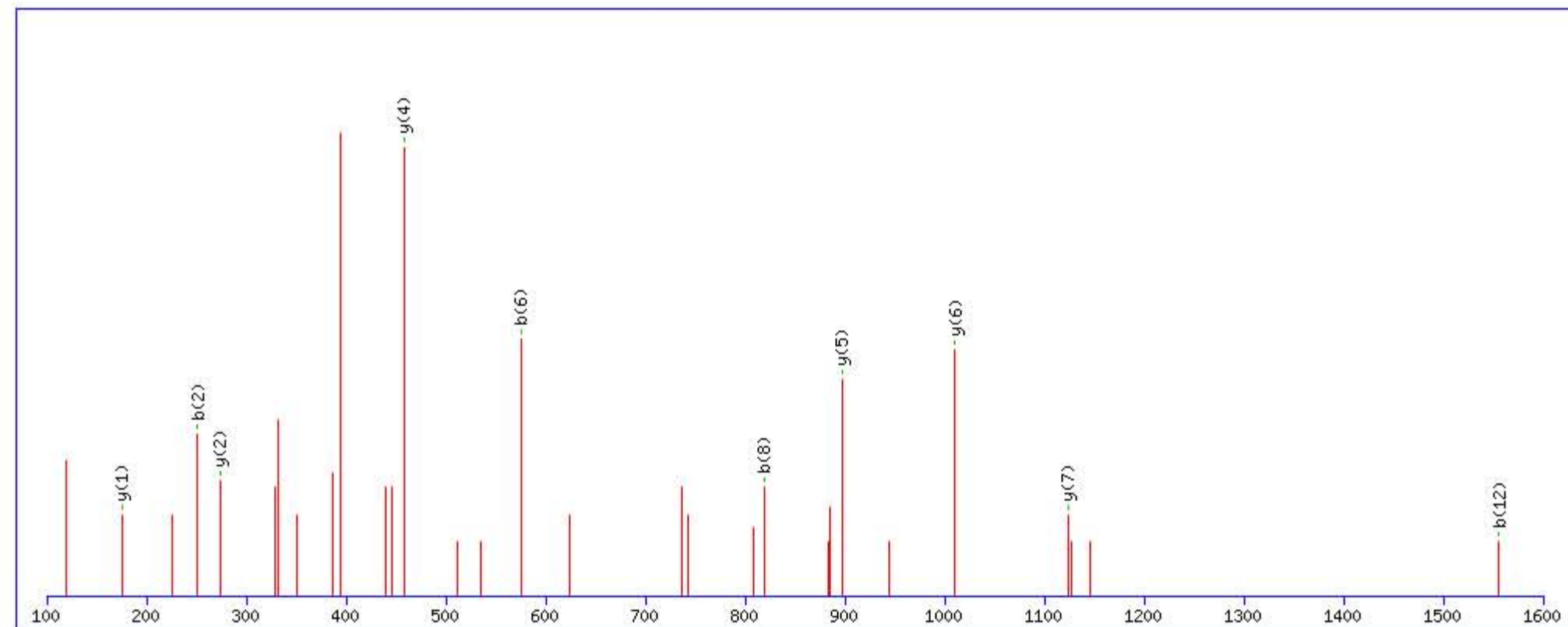
Title: Locus:1.1.1.3713.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1941.138626

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

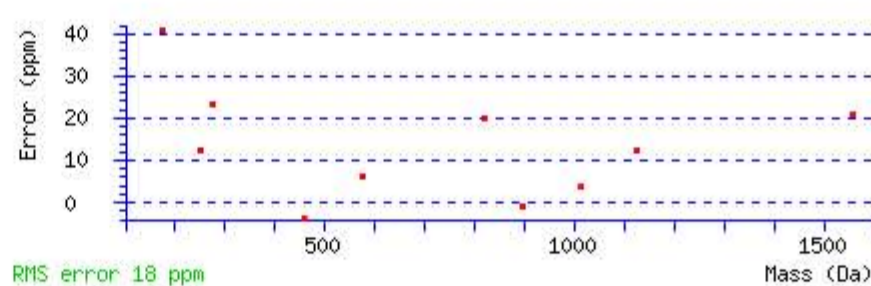
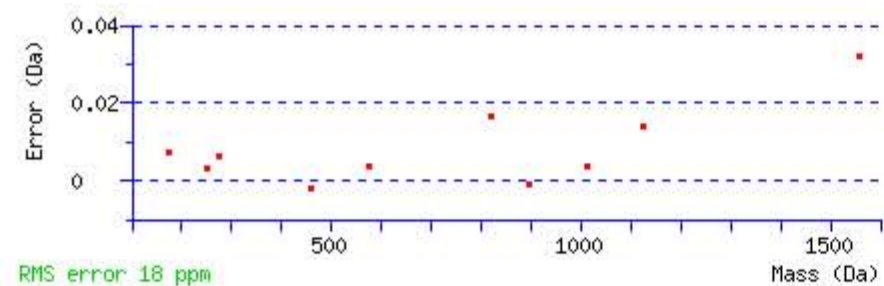
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 34 Expect: 0.00084

Matches : 10/92 fragment ions using 20 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	138.066188	69.536732			<b>H</b>					15
2	<b>251.150252</b>	126.078764			<b>L</b>	1805.086996	903.047136	1788.060447	894.533862	14
3	350.218666	175.612971			<b>V</b>	1692.002932	846.505104	1674.976383	837.991830	13
4	447.271430	224.139353			<b>P</b>	1592.934518	796.970897	1575.907969	788.457623	12
5	504.292894	252.650085			<b>G</b>	1495.881754	748.444515	1478.855205	739.931241	11
6	<b>575.330008</b>	288.168642			<b>A</b>	1438.860290	719.933783	1421.833741	711.420509	10
7	672.382772	336.695024			<b>P</b>	1367.823176	684.415226	1350.796627	675.901952	9
8	<b>819.451186</b>	410.229231			<b>F</b>	1270.770412	635.888844	1253.743863	627.375570	8
9	932.535250	466.771263			<b>L</b>	<b>1123.701998</b>	562.354637	1106.675449	553.841363	7
10	1045.619314	523.313295			<b>L</b>	<b>1010.617934</b>	505.812605	993.591385	497.299331	6
11	1484.844640	742.925958	1467.818091	734.412684	<b>Q</b>	<b>897.533870</b>	449.270573	880.507321	440.757298	5
12	<b>1555.881754</b>	778.444515	1538.855205	769.931241	<b>A</b>	<b>458.308544</b>	229.657910	441.281995	221.144635	4
13	1668.965818	834.986547	1651.939269	826.473273	<b>L</b>	387.271430	194.139353	370.244881	185.626078	3
14	1768.034232	884.520754	1751.007683	876.007480	<b>V</b>	<b>274.187366</b>	137.597321	257.160817	129.084047	2
15					<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839	1



NCBI BLAST search of [HLVPGAPFLLQALVR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
34.0	1941.138626	0.009796	<a href="#">HLVPGAPFLLQALVR</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **EPFLSCCQFAESLR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 40920: 2053.946352 from(685.656060,3+) rtinseconds(2498) index(48782)

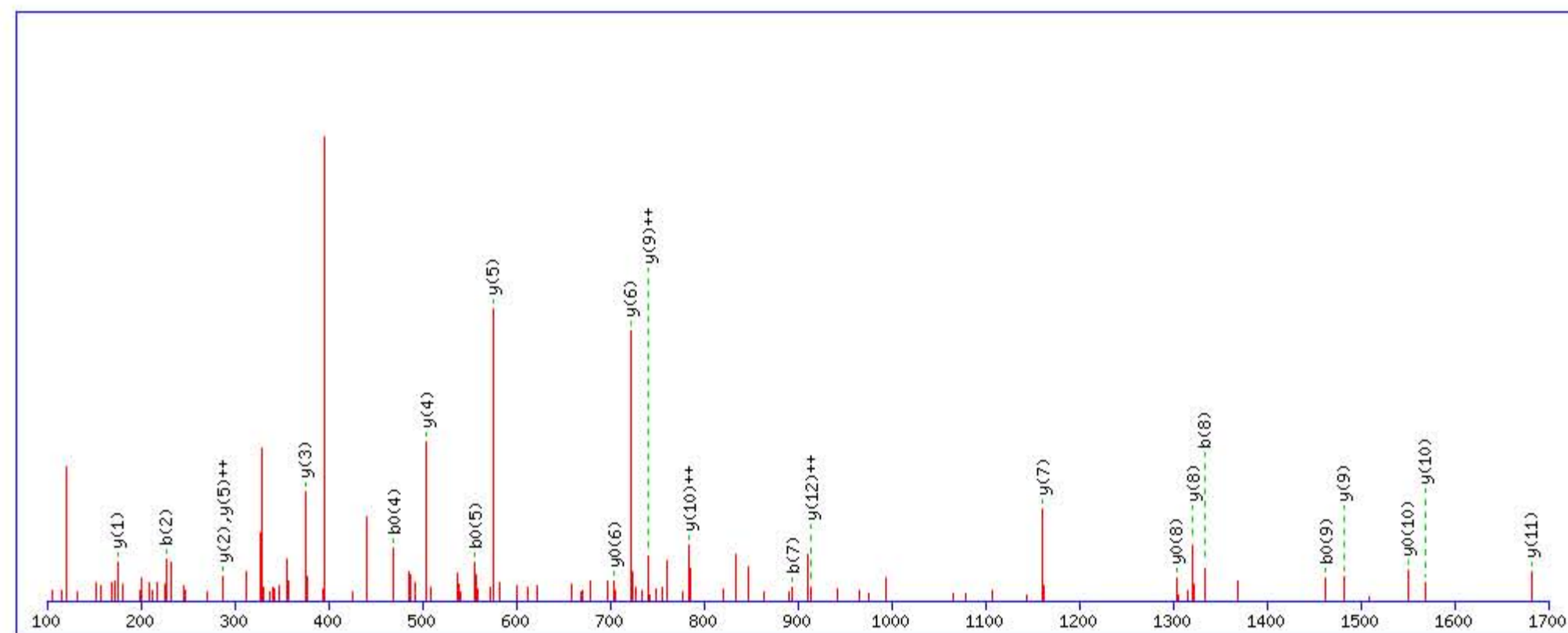
Title: Locus:1.1.1.3582.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2053.942368

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

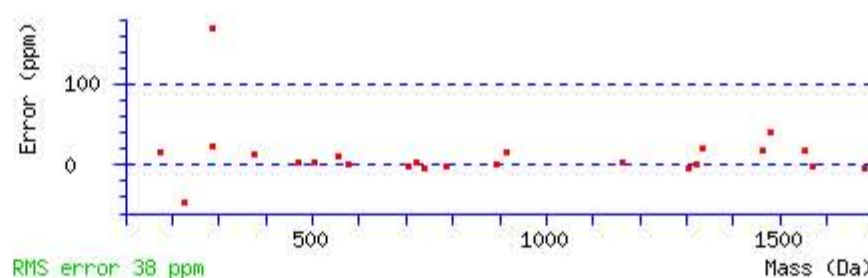
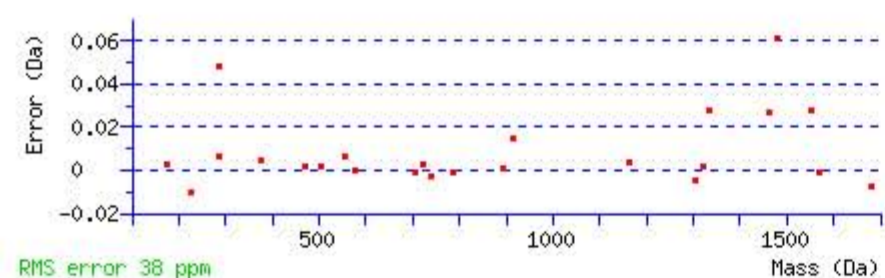
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 65 Expect: 1.4e-006

Matches : 24/138 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							14
2	<b>227.102633</b>	114.054954			209.092068	105.049672	P	1925.907059	963.457168	1908.880510	954.943893	1907.896494	954.451885	13
3	374.171047	187.589161			356.160482	178.583879	F	1828.854295	<b>914.930786</b>	1811.827746	906.417511	1810.843730	905.925503	12
4	487.255111	244.131193			<b>469.244546</b>	235.125911	L	<b>1681.785881</b>	841.396579	1664.759332	832.883304	1663.775316	832.391296	11
5	574.287139	287.647208			<b>556.276574</b>	278.641925	S	<b>1568.701817</b>	<b>784.854547</b>	1551.675268	776.341272	<b>1550.691252</b>	775.849264	10
6	734.317788	367.662532			716.307223	358.657250	C	<b>1481.669789</b>	<b>741.338533</b>	1464.643240	732.825258	1463.659224	732.333250	9
7	<b>894.348437</b>	447.677857			876.337872	438.672574	C	<b>1321.639140</b>	661.323208	1304.612591	652.809934	<b>1303.628575</b>	652.317926	8
8	<b>1333.573763</b>	667.290520	1316.547214	658.777245	1315.563198	658.285237	Q	<b>1161.608491</b>	581.307884	1144.581942	572.794609	1143.597926	572.302601	7
9	1480.642177	740.824727	1463.615628	732.311452	<b>1462.631612</b>	731.819444	F	<b>722.383165</b>	361.695221	705.356616	353.181946	<b>704.372600</b>	352.689938	6
10	1551.679291	776.343284	1534.652742	767.830009	1533.668726	767.338001	A	<b>575.314751</b>	<b>288.161014</b>	558.288202	279.647739	557.304186	279.155731	5
11	1680.721884	840.864580	1663.695335	832.351306	1662.711319	831.859298	E	<b>504.277637</b>	252.642457	487.251088	244.129182	486.267072	243.637174	4
12	1767.753912	884.380594	1750.727363	875.867320	1749.743347	875.375312	S	<b>375.235044</b>	188.121160	358.208495	179.607885	357.224479	179.115877	3
13	1880.837976	940.922626	1863.811427	932.409352	1862.827411	931.917344	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
14							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **EPFLSCCQFAESLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
65.3	2053.942368	0.003984	<a href="#">EPFLSCCQFAESLR</a>
3.1	2053.948227	-0.001875	<a href="#">EKSTCSMGSELLPMISPR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LLATLCSAEVCQCAEGK**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 43621: 2220.038922 from(741.020250,3+) rtinseconds(2229) index(47386)

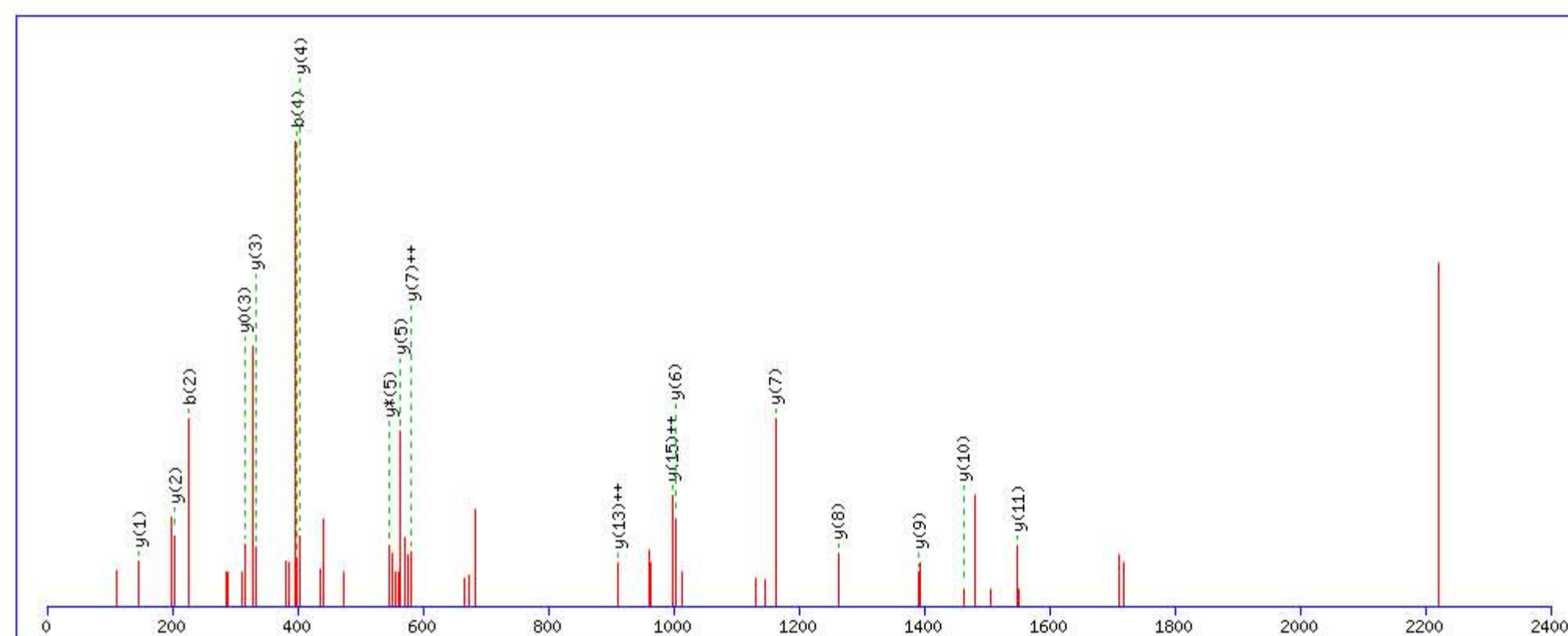
Title: Locus:1.1.1.3488.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2220.041092

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

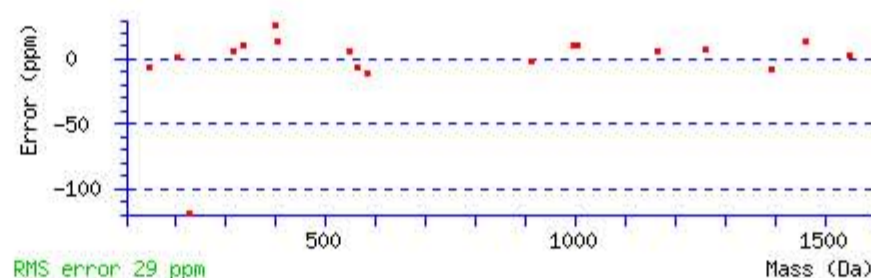
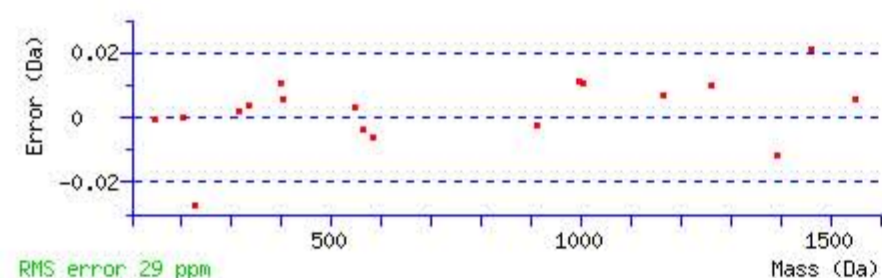
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 50 Expect: 0.00017

Matches : 18/160 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							17
2	<b>227.175404</b>	114.091340					L	2107.964318	1054.485797	2090.937769	1045.972522	2089.953753	1045.480514	16
3	298.212518	149.609897					A	1994.880254	<b>997.943765</b>	1977.853705	989.430491	1976.869689	988.938483	15
4	<b>399.260197</b>	200.133737			381.249632	191.128454	T	1923.843140	962.425208	1906.816591	953.911934	1905.832575	953.419926	14
5	512.344261	256.675769			494.333696	247.670486	L	1822.795461	<b>911.901369</b>	1805.768912	903.388094	1804.784896	902.896086	13
6	672.374910	336.691093			654.364345	327.685811	C	1709.711397	855.359337	1692.684848	846.846062	1691.700832	846.354054	12
7	759.406938	380.207107			741.396373	371.201825	S	<b>1549.680748</b>	775.344012	1532.654199	766.830738	1531.670183	766.338730	11
8	830.444052	415.725664			812.433487	406.720382	A	<b>1462.648720</b>	731.827998	1445.622171	723.314724	1444.638155	722.822716	10
9	959.486645	480.246961			941.476080	471.241678	E	<b>1391.611606</b>	696.309441	1374.585057	687.796167	1373.601041	687.304159	9
10	1058.555059	529.781168			1040.544494	520.775885	V	<b>1262.569013</b>	631.788145	1245.542464	623.274870	1244.558448	622.782862	8
11	1218.585708	609.796492			1200.575143	600.791210	C	<b>1163.500599</b>	<b>582.253938</b>	1146.474050	573.740663	1145.490034	573.248655	7
12	1657.811034	829.409155	1640.784485	820.895881	1639.800469	820.403873	Q	<b>1003.469950</b>	502.238613	986.443401	493.725339	985.459385	493.233331	6
13	1817.841683	909.424480	1800.815134	900.911205	1799.831118	900.419197	C	<b>564.244624</b>	282.625950	<b>547.218075</b>	274.112676	546.234059	273.620668	5
14	1888.878797	944.943037	1871.852248	936.429762	1870.868232	935.937754	A	<b>404.213975</b>	202.610626	387.187426	194.097351	386.203410	193.605343	4
15	2017.921390	1009.464333	2000.894841	1000.951059	1999.910825	1000.459051	E	<b>333.176861</b>	167.092069	316.150312	158.578794	<b>315.166296</b>	158.086786	3
16	2074.942854	1037.975065	2057.916305	1029.461790	2056.932289	1028.969782	G	<b>204.134268</b>	102.570772	187.107719	94.057497			2
17							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [LLATLCSAEVCQCAEGK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
49.7	2220.041092	-0.002170	<a href="#">LLATLCSAEVCQCAEGK</a>

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

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **GCGEQTMIIYLAPTLAASR**

Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

Match to Query 44062: 2249.109492 from(750.710440,3+) rtinseconds(2515) index(48930)

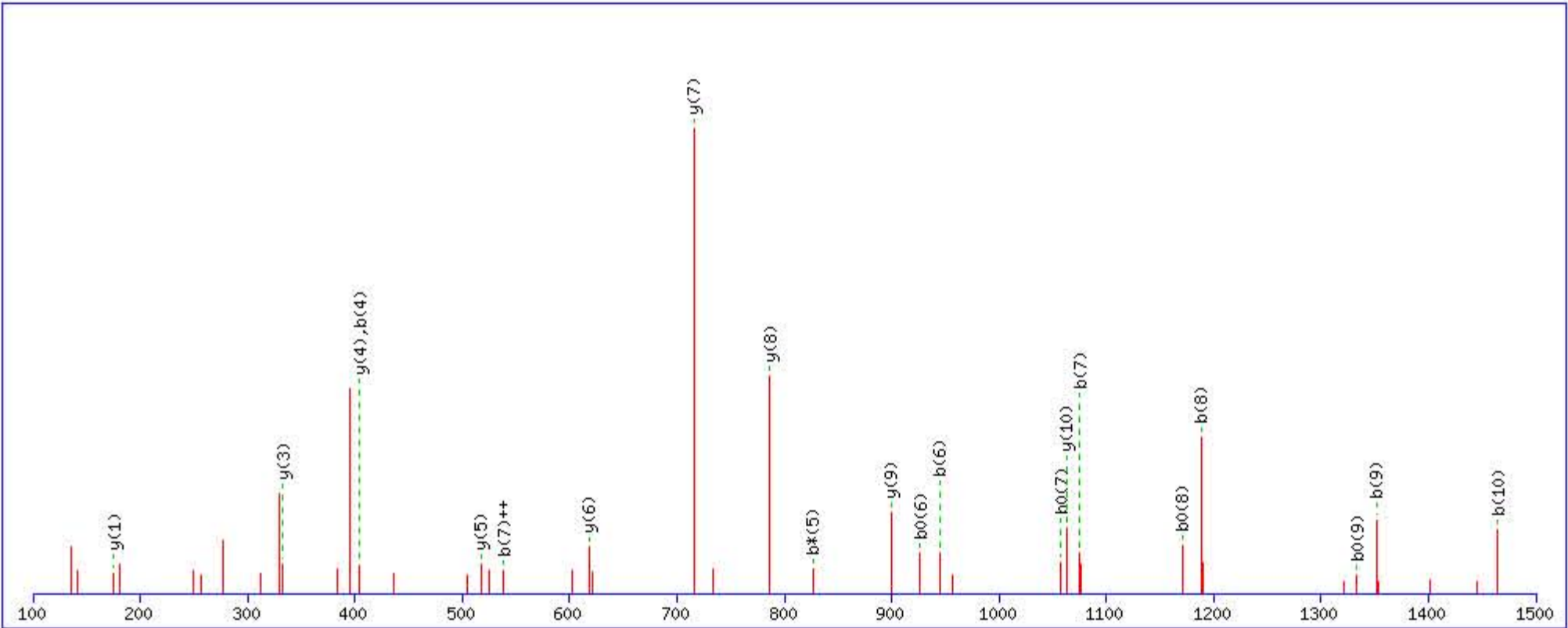
Title: Locus:1.1.1.3588.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2249.100647

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

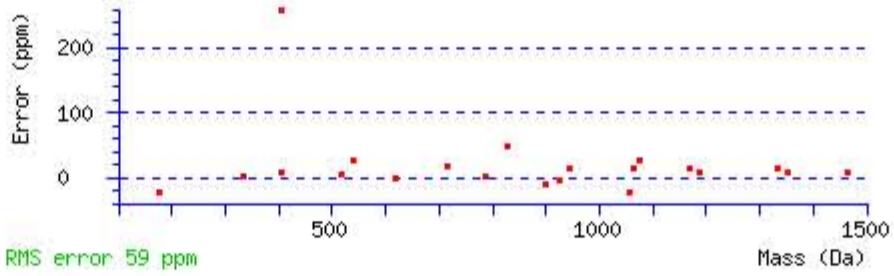
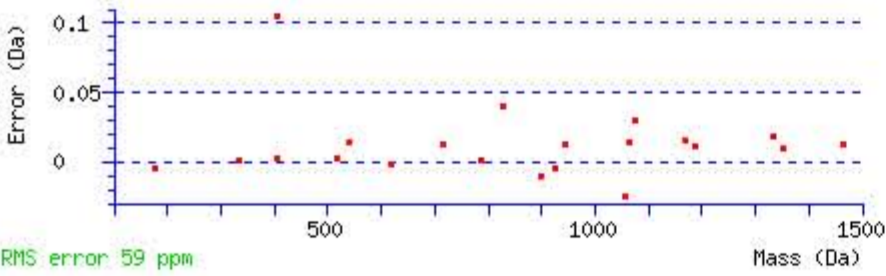
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 38 Expect: 0.0011

Matches : 21/188 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					<b>G</b>							<b>18</b>
2	218.059389	109.533333					<b>C</b>	2193.086482	1097.046879	2176.059933	1088.533604	2175.075917	1088.041596	<b>17</b>
3	275.080853	138.044064					<b>G</b>	2033.055833	1017.031555	2016.029284	1008.518280	2015.045268	1008.026272	<b>16</b>
4	<b>404.123446</b>	202.565361			386.112881	193.560079	<b>E</b>	1976.034369	988.520822	1959.007820	980.007548	1958.023804	979.515540	<b>15</b>
5	843.348772	422.178024	<b>826.322223</b>	413.664750	825.338207	413.172742	<b>Q</b>	1846.991776	923.999526	1829.965227	915.486251	1828.981211	914.994243	<b>14</b>
6	<b>944.396451</b>	472.701864	927.369902	464.188589	<b>926.385886</b>	463.696581	<b>T</b>	1407.766450	704.386863	1390.739901	695.873588	1389.755885	695.381580	<b>13</b>
7	<b>1075.436936</b>	<b>538.222106</b>	1058.410387	529.708832	<b>1057.426371</b>	529.216824	<b>M</b>	1306.718771	653.863023	1289.692222	645.349749	1288.708206	644.857741	<b>12</b>
8	<b>1188.521000</b>	594.764138	1171.494451	586.250864	<b>1170.510435</b>	585.758855	<b>I</b>	1175.678286	588.342781	1158.651737	579.829506	1157.667721	579.337498	<b>11</b>
9	<b>1351.584329</b>	676.295803	1334.557780	667.782528	<b>1333.573764</b>	667.290520	<b>Y</b>	<b>1062.594222</b>	531.800749	1045.567673	523.287475	1044.583657	522.795466	<b>10</b>
10	<b>1464.668393</b>	732.837834	1447.641844	724.324560	1446.657828	723.832552	<b>L</b>	<b>899.530893</b>	450.269084	882.504344	441.755810	881.520328	441.263802	<b>9</b>
11	1535.705507	768.356391	1518.678958	759.843117	1517.694942	759.351109	<b>A</b>	<b>786.446829</b>	393.727053	769.420280	385.213778	768.436264	384.721770	<b>8</b>
12	1632.758271	816.882773	1615.731722	808.369499	1614.747706	807.877491	<b>P</b>	<b>715.409715</b>	358.208496	698.383166	349.695221	697.399150	349.203213	<b>7</b>
13	1733.805950	867.406613	1716.779401	858.893339	1715.795385	858.401330	<b>T</b>	<b>618.356951</b>	309.682114	601.330402	301.168839	600.346386	300.676831	<b>6</b>
14	1846.890014	923.948645	1829.863465	915.435370	1828.879449	914.943362	<b>L</b>	<b>517.309272</b>	259.158274	500.282723	250.644999	499.298707	250.152991	<b>5</b>
15	1917.927128	959.467202	1900.900579	950.953927	1899.916563	950.461919	<b>A</b>	<b>404.225208</b>	202.616242	387.198659	194.102967	386.214643	193.610959	<b>4</b>
16	1988.964242	994.985759	1971.937693	986.472484	1970.953677	985.980476	<b>A</b>	<b>333.188094</b>	167.097685	316.161545	158.584410	315.177529	158.092402	<b>3</b>
17	2075.996270	1038.501773	2058.969721	1029.988498	2057.985705	1029.496490	<b>S</b>	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	<b>2</b>
18							<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839			<b>1</b>



NCBI BLAST search of **GCGEQTMIIYLAPTLAASR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
37.9	2249.100647	0.008845	<a href="#">GCGEQTMIIYLAPTLAASR</a>
6.2	2249.115051	-0.005559	<a href="#">YSTSLYASPSMVHEGVAVVPR</a>
3.2	2249.137527	-0.028035	<a href="#">QKFERPICVSWSTDVKGGR</a>
1.9	2249.096420	0.013072	<a href="#">SDNTVTWLAAWTESVQNSIK</a>
0.3	2249.078659	0.030833	<a href="#">FENGVAEGMVDPISAFR</a>

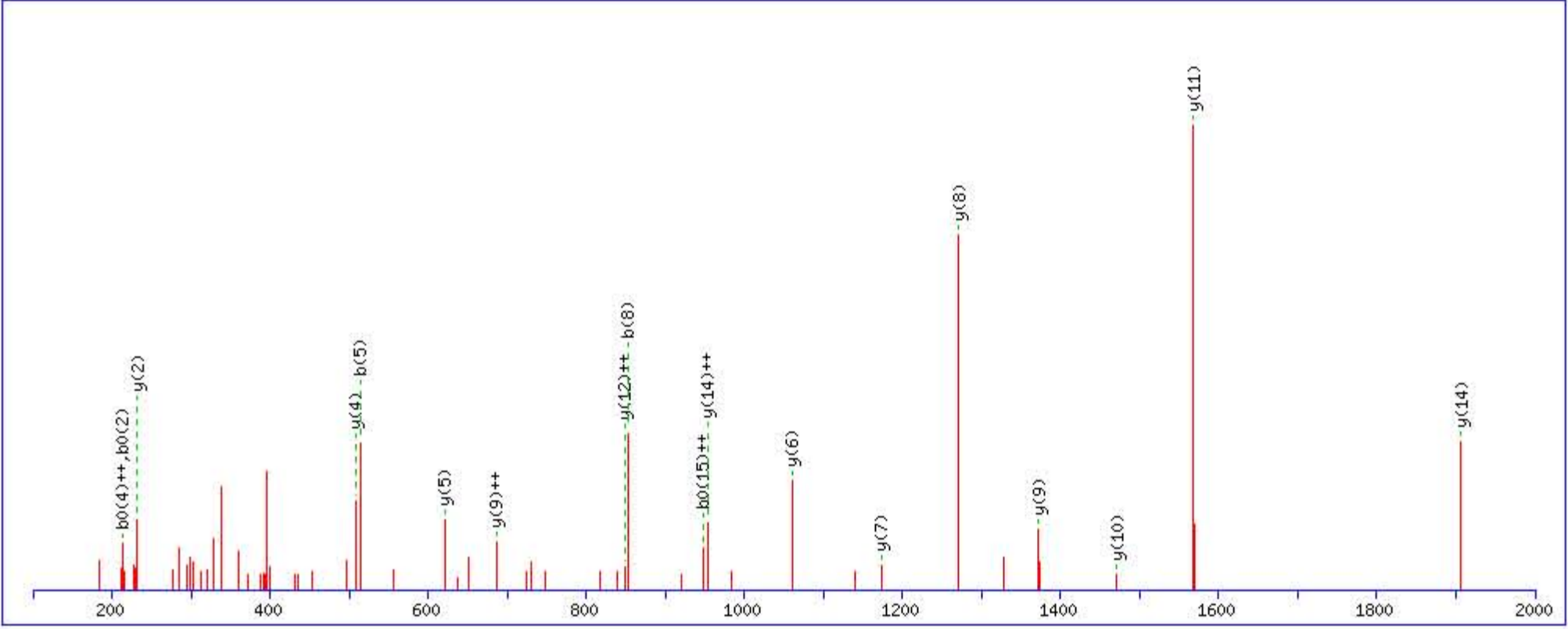
# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **DDPDAPLQPVTPLQLFEGR**  
 Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

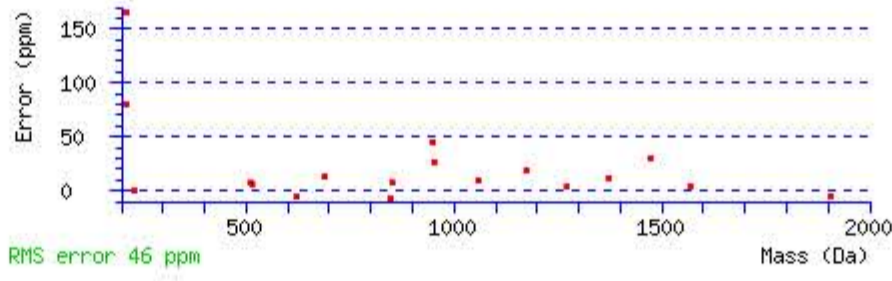
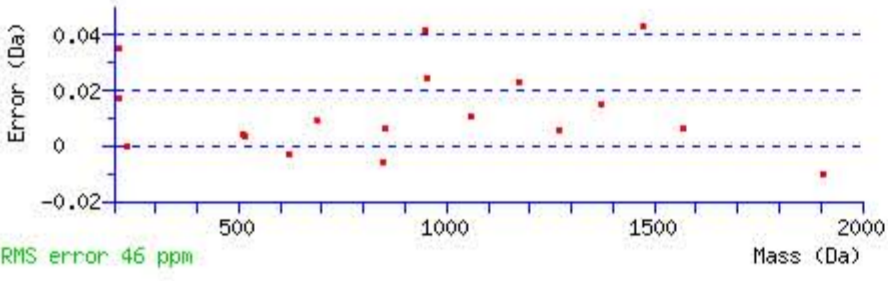
Match to Query 46770: 2418.237822 from(807.086550,3+) rtinseconds(3010) index(52389)  
 Title: Locus:1.1.1.3756.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2418.225342  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q14 : Biotin:Thermo-21345 (Q)  
 Ions Score: 66 Expect: 8.1e-007  
 Matches : 18/198 fragment ions using 27 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							19
2	231.061162	116.034219			213.050597	107.028936	D	2304.205668	1152.606472	2287.179119	1144.093197	2286.195103	1143.601189	18
3	328.113926	164.560601			310.103361	155.555319	P	2189.178725	1095.093000	2172.152176	1086.579726	2171.168160	1086.087718	17
4	443.140869	222.074073			425.130304	213.068790	D	2092.125961	1046.566618	2075.099412	1038.053344	2074.115396	1037.561336	16
5	514.177983	257.592630			496.167418	248.587347	A	1977.099018	989.053147	1960.072469	980.539873	1959.088453	980.047865	15
6	611.230747	306.119012			593.220182	297.113729	P	1906.061904	953.534590	1889.035355	945.021316	1888.051339	944.529308	14
7	724.314811	362.661044			706.304246	353.655761	L	1809.009140	905.008208	1791.982591	896.494934	1790.998575	896.002926	13
8	852.373389	426.690333	835.346840	418.177058	834.362824	417.685050	Q	1695.925076	848.466176	1678.898527	839.952902	1677.914511	839.460894	12
9	949.426153	475.216715	932.399604	466.703440	931.415588	466.211432	P	1567.866498	784.436887	1550.839949	775.923613	1549.855933	775.431605	11
10	1048.494567	524.750922	1031.468018	516.237647	1030.484002	515.745639	V	1470.813734	735.910505	1453.787185	727.397231	1452.803169	726.905223	10
11	1149.542246	575.274761	1132.515697	566.761487	1131.531681	566.269479	T	1371.745320	686.376298	1354.718771	677.863024	1353.734755	677.371016	9
12	1246.595010	623.801143	1229.568461	615.287869	1228.584445	614.795861	P	1270.697641	635.852459	1253.671092	627.339184	1252.687076	626.847176	8
13	1359.679074	680.343175	1342.652525	671.829901	1341.668509	671.337893	L	1173.644877	587.326077	1156.618328	578.812802	1155.634312	578.320794	7
14	1798.904400	899.955838	1781.877851	891.442564	1780.893835	890.950556	Q	1060.560813	530.784045	1043.534264	522.270770	1042.550248	521.778762	6
15	1911.988464	956.497870	1894.961915	947.984596	1893.977899	947.492588	L	621.335487	311.171382	604.308938	302.658107	603.324922	302.166099	5
16	2059.056878	1030.032077	2042.030329	1021.518803	2041.046313	1021.026794	F	508.251423	254.629350	491.224874	246.116075	490.240858	245.624067	4
17	2188.099471	1094.553373	2171.072922	1086.040099	2170.088906	1085.548091	E	361.183009	181.095142	344.156460	172.581868	343.172444	172.089860	3
18	2245.120935	1123.064105	2228.094386	1114.550831	2227.110370	1114.058823	G	232.140416	116.573846	215.113867	108.060571			2
19							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [DDPDAPLQPVTPLQLFEGR](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
65.7	2418.225342	0.012480	<a href="#">DDPDAPLQPVTPLQLFEGR</a>
12.7	2418.225342	0.012480	<a href="#">DDPDAPLQPVTPLQLFEGR</a>
0.7	2418.247803	-0.009981	<a href="#">GQTLNVNRLHIVGYGDFQMK</a>
0.2	2418.259033	-0.021211	<a href="#">QQQRALLGPWLSGPQGTD</a>
0.2	2418.259033	-0.021211	<a href="#">QQQRALLGPWLSGPQGTD</a>
0.2	2418.259033	-0.021211	<a href="#">QQQRALLGPWLSGPQGTD</a>

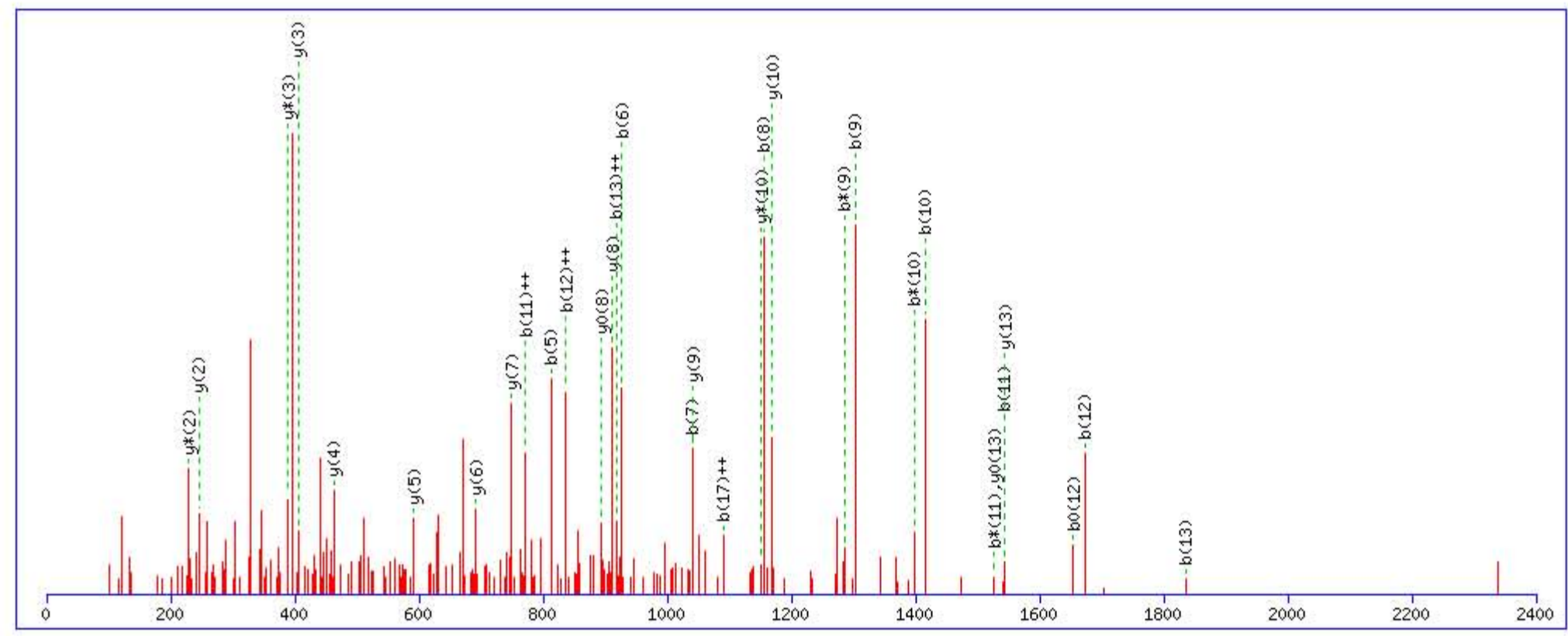
# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **AACAQLNDFLQEYGTQGCQV**  
 Found in **CO4A\_HUMAN**, Complement C4-A OS=Homo sapiens GN=C4A PE=1 SV=2

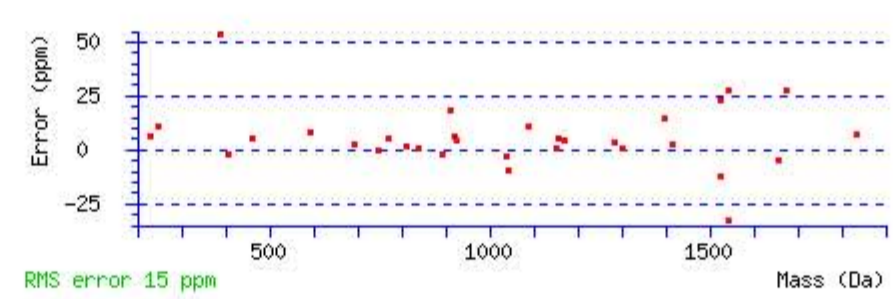
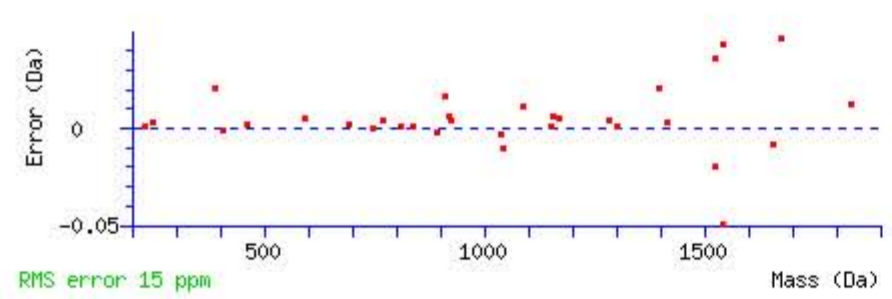
Match to Query 49357: 2583.165192 from(862.062340,3+) rtinseconds(2731) index(50237)  
 Title: Locus:1.1.1.3662.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from 0 to 2400 Da Full range  
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2583.155624  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q5 : Biotin:Thermo-21345 (Q)  
 Ions Score: 65 Expect: 3e-006  
 Matches : 32/194 fragment ions using 52 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							20
2	143.081504	72.044390					A	2513.125782	1257.066529	2496.099233	1248.553254	2495.115217	1248.061246	19
3	303.112153	152.059714					C	2442.088668	1221.547972	2425.062119	1213.034697	2424.078103	1212.542689	18
4	374.149267	187.578271					A	2282.058019	1141.532647	2265.031470	1133.019373	2264.047454	1132.527365	17
5	<b>813.374593</b>	407.190935	796.348044	398.677660			Q	2211.020905	1106.014090	2193.994356	1097.500816	2193.010340	1097.008808	16
6	<b>926.458657</b>	463.732967	909.432108	455.219692			L	1771.795579	886.401428	1754.769030	877.888153	1753.785014	877.396145	15
7	<b>1040.501584</b>	520.754430	1023.475035	512.241155			N	1658.711515	829.859396	1641.684966	821.346121	1640.700950	820.854113	14
8	<b>1155.528527</b>	578.267902	1138.501978	569.754627	1137.517962	569.262619	D	<b>1544.668588</b>	772.837932	1527.642039	764.324658	<b>1526.658023</b>	763.832650	13
9	<b>1302.596941</b>	651.802109	<b>1285.570392</b>	643.288834	1284.586376	642.796826	F	1429.641645	715.324460	1412.615096	706.811186	1411.631080	706.319178	12
10	<b>1415.681005</b>	708.344141	<b>1398.654456</b>	699.830866	1397.670440	699.338858	L	1282.573231	641.790253	1265.546682	633.276979	1264.562666	632.784971	11
11	<b>1543.739583</b>	<b>772.373430</b>	<b>1526.713034</b>	763.860155	1525.729018	763.368147	Q	<b>1169.489167</b>	585.248222	<b>1152.462618</b>	576.734947	1151.478602	576.242939	10
12	<b>1672.782176</b>	<b>836.894726</b>	1655.755627	828.381452	<b>1654.771611</b>	827.889444	E	<b>1041.430589</b>	521.218932	1024.404040	512.705658	1023.420024	512.213650	9
13	<b>1835.845505</b>	<b>918.426391</b>	1818.818956	909.913116	1817.834940	909.421108	Y	<b>912.387996</b>	456.697636	895.361447	448.184361	<b>894.377431</b>	447.692353	8
14	1892.866969	946.937123	1875.840420	938.423848	1874.856404	937.931840	G	<b>749.324667</b>	375.165971	732.298118	366.652697	731.314102	366.160689	7
15	1993.914648	997.460962	1976.888099	988.947688	1975.904083	988.455680	T	<b>692.303203</b>	346.655239	675.276654	338.141965	674.292638	337.649957	6
16	2121.973226	1061.490251	2104.946677	1052.976976	2103.962661	1052.484968	Q	<b>591.255524</b>	296.131400	574.228975	287.618125			5
17	2178.994690	<b>1090.000983</b>	2161.968141	1081.487708	2160.984125	1080.995700	G	<b>463.196946</b>	232.102111	446.170397	223.588836			4
18	2339.025339	1170.016307	2321.998790	1161.503033	2321.014774	1161.011025	C	<b>406.175482</b>	203.591379	<b>389.148933</b>	195.078104			3
19	2467.083917	1234.045596	2450.057368	1225.532322	2449.073352	1225.040314	Q	<b>246.144833</b>	123.576054	<b>229.118284</b>	115.062780			2
20							V	118.086255	59.546765					1



NCBI BLAST search of **AACAQLNDFLQEYGTQGCQV**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
64.7	2583.155624	0.009568	<a href="#">AACAQLNDFLQEYGTQGCQV</a>
21.7	2583.155624	0.009568	<a href="#">AACAQLNDFLQEYGTQGCQV</a>





# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **GEQIQLK**

Found in **COS\_HUMAN**, Complement C5 OS=Homo sapiens GN=C5 PE=1 SV=4

Match to Query 14948: 1125.619048 from(563.816800,2+) rtinseconds(1768) index(30383)

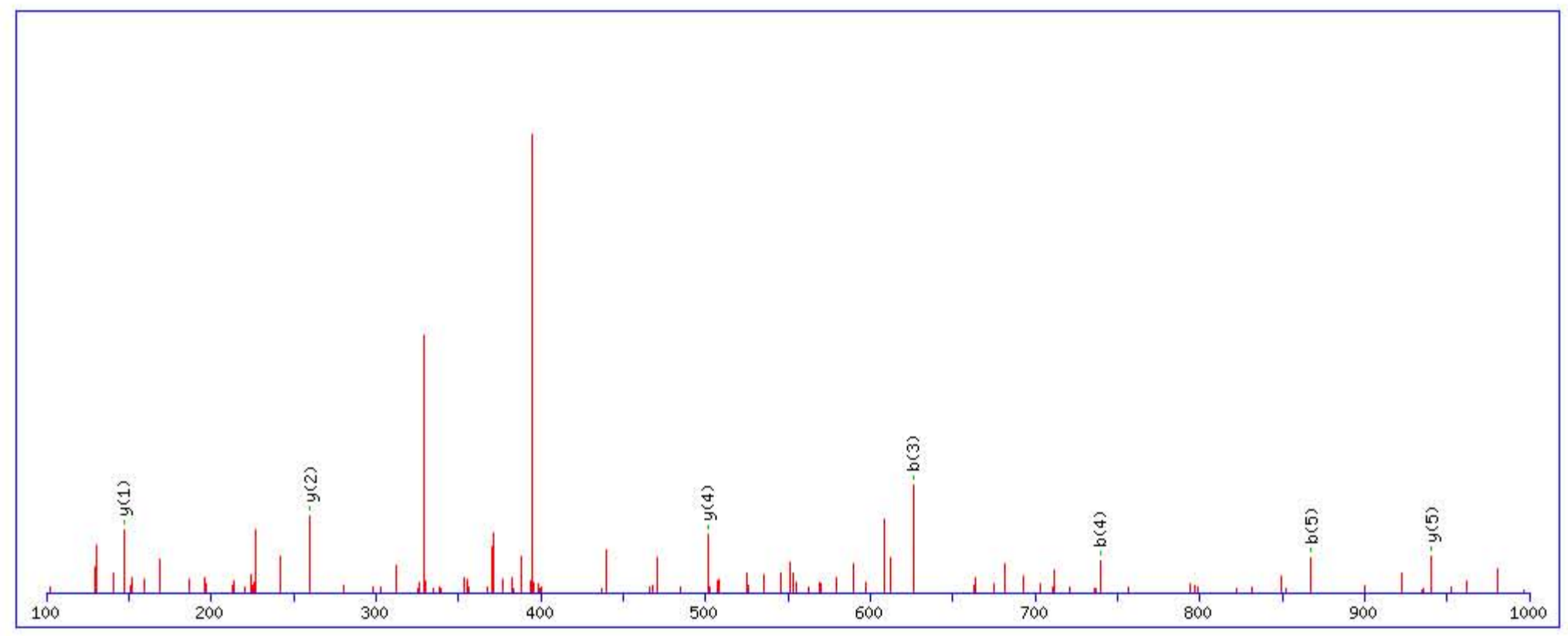
Title: Locus:1.1.1.3279.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1125.621597

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

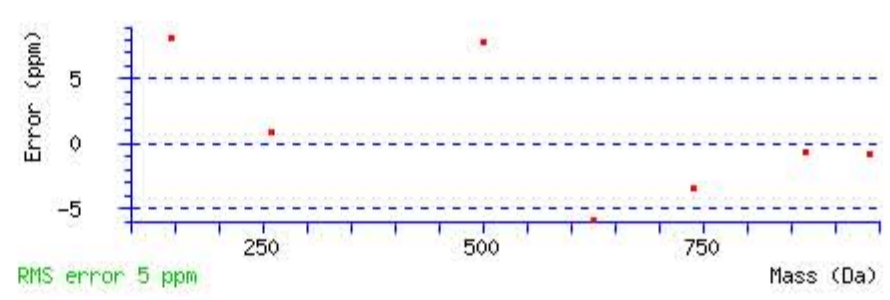
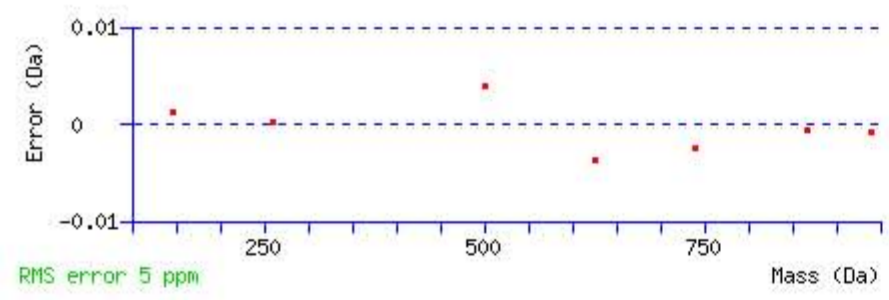
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 27 Expect: 0.04

Matches : 7/56 fragment ions using 9 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							7
2	187.071333	94.039305			169.060768	85.034022	E	1069.607429	535.307353	1052.580880	526.794078	1051.596864	526.302070	6
3	<b>626.296659</b>	313.651968	609.270110	305.138693	608.286094	304.646685	Q	<b>940.564836</b>	470.786056	923.538287	462.272782			5
4	<b>739.380723</b>	370.194000	722.354174	361.680725	721.370158	361.188717	I	<b>501.339510</b>	251.173393	484.312961	242.660119			4
5	<b>867.439301</b>	434.223289	850.412752	425.710014	849.428736	425.218006	Q	388.255446	194.631361	371.228897	186.118087			3
6	980.523365	490.765321	963.496816	482.252046	962.512800	481.760038	L	<b>260.196868</b>	130.602072	243.170319	122.088798			2
7							K	<b>147.112804</b>	74.060040	130.086255	65.546766			1



NCBI BLAST search of [GEQIQLK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
27.3	1125.621597	-0.002549	<a href="#">GEQIQLK</a>
11.7	1125.621597	-0.002549	<a href="#">EQVAQLK</a>
11.6	1125.632813	-0.013764	<a href="#">EQAARK</a>
10.3	1125.632828	-0.013780	<a href="#">KLCLSHLQK</a>
10.0	1125.607666	0.011382	<a href="#">QMDRHAKIK</a>
7.6	1125.602966	0.016082	<a href="#">VSISKSTYNK</a>
7.2	1125.606979	0.012069	<a href="#">LKEAFDYIK</a>
7.1	1125.629486	-0.010438	<a href="#">RVDGWVPLGK</a>
6.1	1125.621597	-0.002549	<a href="#">GEQIQLK</a>
6.1	1125.633499	-0.014451	<a href="#">VSHFLPWIK</a>

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **QYLIMGK**

Found in **CO5\_HUMAN**, Complement C5 OS=Homo sapiens GN=C5 PE=1 SV=4

Match to Query 16610: 1162.621308 from(582.317930,2+) rtinseconds(2121) index(32577)

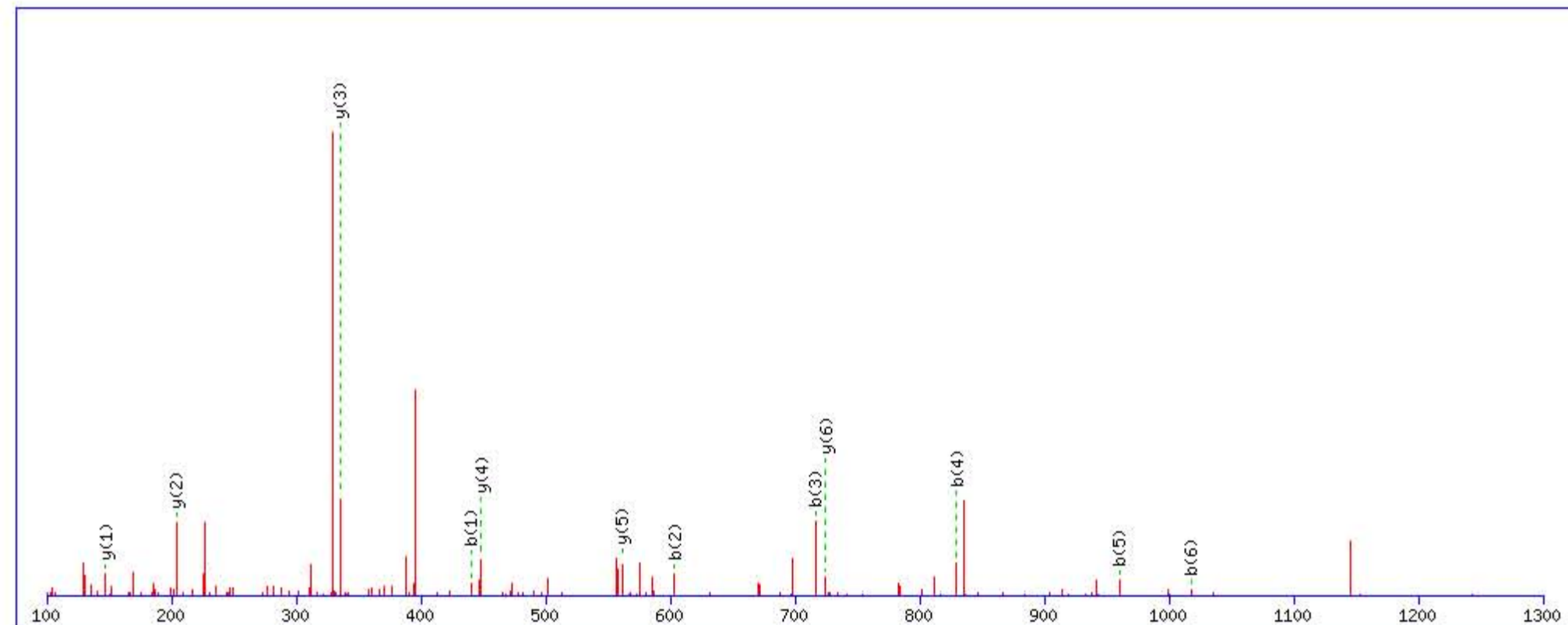
Title: Locus:1.1.1.3402.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1162.624237

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

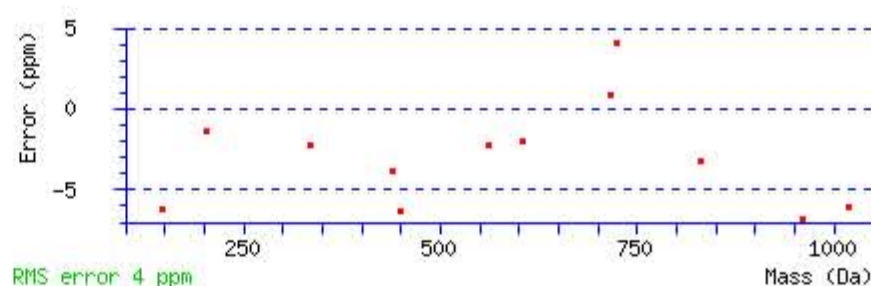
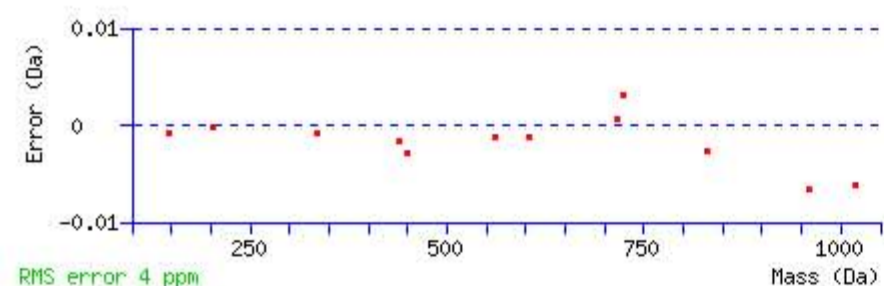
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 25 Expect: 0.018

Matches : 12/48 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	440.232602	220.619939	423.206053	212.106664	Q					7
2	603.295931	302.151604	586.269382	293.638329	Y	724.406210	362.706743	707.379661	354.193469	6
3	716.379995	358.693636	699.353446	350.180361	L	561.342881	281.175079	544.316332	272.661804	5
4	829.464059	415.235668	812.437510	406.722393	I	448.258817	224.633046	431.232268	216.119772	4
5	960.504544	480.755910	943.477995	472.242636	M	335.174753	168.091014	318.148204	159.577740	3
6	1017.526008	509.266642	1000.499459	500.753368	G	204.134268	102.570772	187.107719	94.057497	2
7					K	147.112804	74.060040	130.086255	65.546765	1



NCBI BLAST search of **QYLIMGK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
25.0	1162.624237	-0.002929	<a href="#">QYLIMGK</a>
6.0	1162.624069	-0.002761	<a href="#">VGRCRSLSTK</a>
5.5	1162.626724	-0.005416	<a href="#">KVEIAEMSLK</a>
4.0	1162.626740	-0.005432	<a href="#">EVLKMDTSIK</a>
3.5	1162.609451	0.011857	<a href="#">QNTNKFNGIK</a>
1.6	1162.612823	0.008485	<a href="#">KTVAMSNLQR</a>
1.6	1162.620697	0.000611	<a href="#">QLSGQRFTAR</a>
1.1	1162.628098	-0.006790	<a href="#">AGLGPQGPR</a>
1.0	1162.635956	-0.014648	<a href="#">WGGFLGRRSK</a>
0.5	1162.637955	-0.016647	<a href="#">KLEMATNKTK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **WLSEEQR**

Found in **COS\_HUMAN**, Complement C5 OS=Homo sapiens GN=C5 PE=1 SV=4

Match to Query 19174: 1257.615708 from(629.815130,2+) rtinseconds(1848) index(30858)

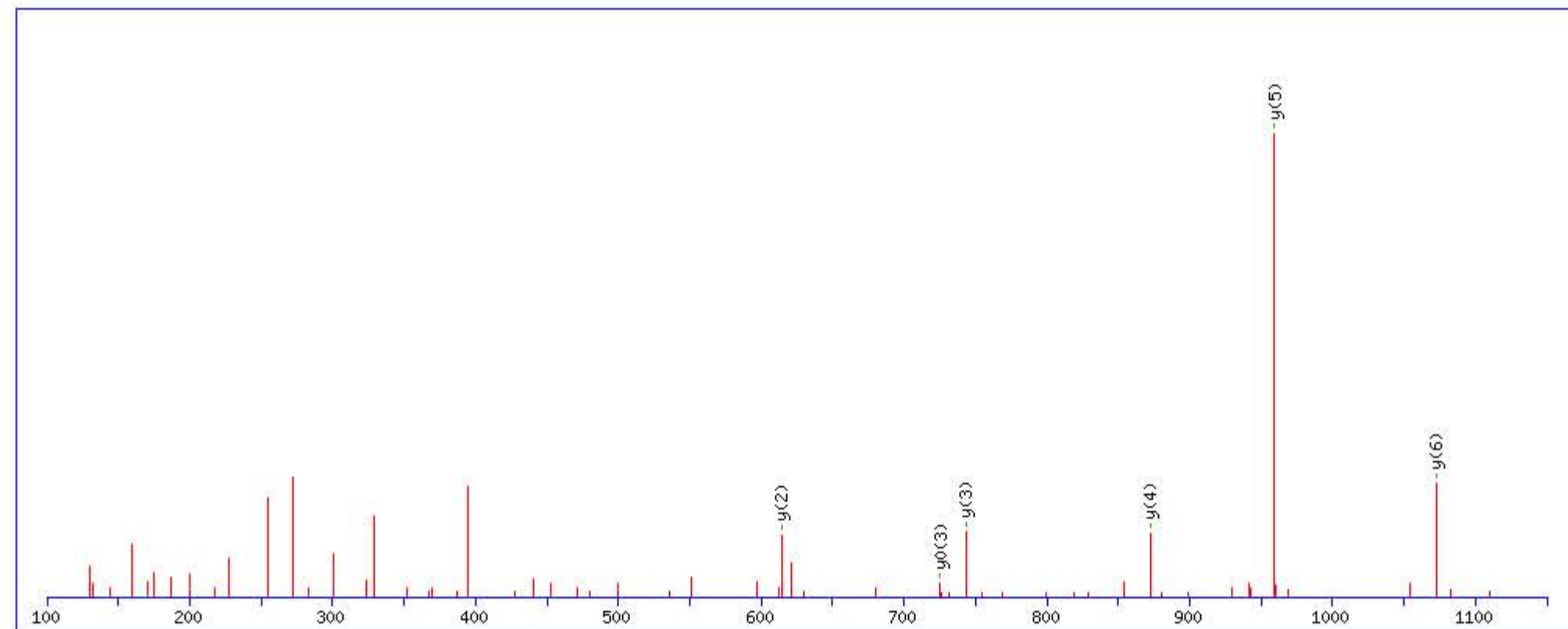
Title: Locus:1.1.1.3307.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1257.617569

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

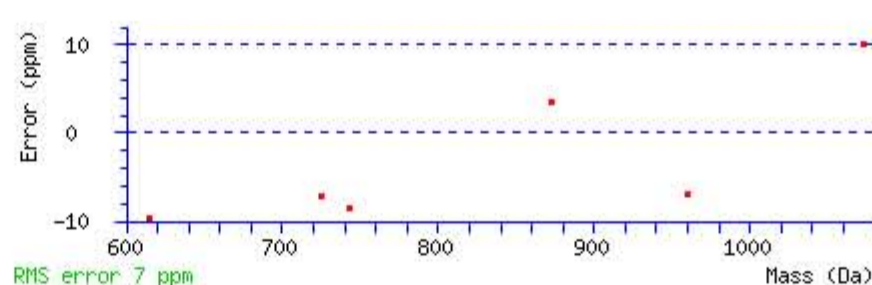
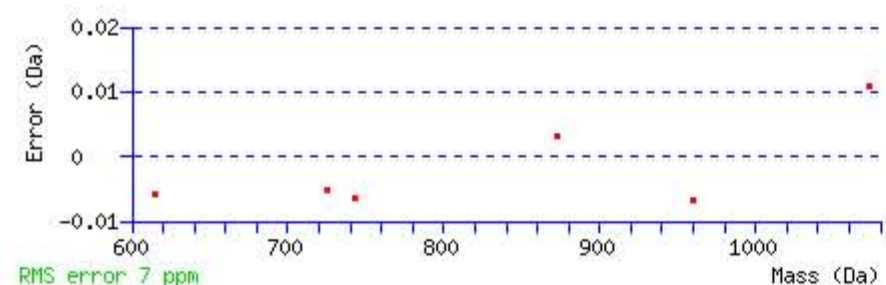
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.0097

Matches : 6/54 fragment ions using 10 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	187.086589	94.046932					W							7
2	300.170653	150.588965					L	1072.545556	536.776416	1055.519007	528.263142	1054.534991	527.771134	6
3	387.202681	194.104979			369.192116	185.099696	S	959.461492	480.234384	942.434943	471.721109	941.450927	471.229101	5
4	516.245274	258.626275			498.234709	249.620993	E	872.429464	436.718370	855.402915	428.205095	854.418899	427.713087	4
5	645.287867	323.147572			627.277302	314.142289	E	743.386871	372.197073	726.360322	363.683799	725.376306	363.191791	3
6	1084.513193	542.760235	1067.486644	534.246960	1066.502628	533.754952	Q	614.344278	307.675777	597.317729	299.162502			2
7							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **WLSEEQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
32.5	1257.617569	-0.001861	<a href="#">WLSEEQR</a>
11.2	1257.621414	-0.005706	<a href="#">ASSNRSWTPPR</a>
5.4	1257.602295	0.013413	<a href="#">EKEEEQR</a>
3.5	1257.621445	-0.005737	<a href="#">GFRGETGPQGPR</a>
3.0	1257.631287	-0.015579	<a href="#">ADAEELKQQR</a>
2.7	1257.606155	0.009553	<a href="#">DASSRANGIPDR</a>
2.2	1257.617599	-0.001891	<a href="#">QADVFPDR</a>
2.1	1257.607040	0.008668	<a href="#">RGVCAGAMAPPR</a>
0.6	1257.620071	-0.004363	<a href="#">EGLEEGDQILR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **AFTECCVVASQLR**

Found in **COS\_HUMAN**, Complement C5 OS=Homo sapiens GN=C5 PE=1 SV=4

Match to Query 36629: 1850.881628 from(926.448090,2+) rtinseconds(2194) index(32995)

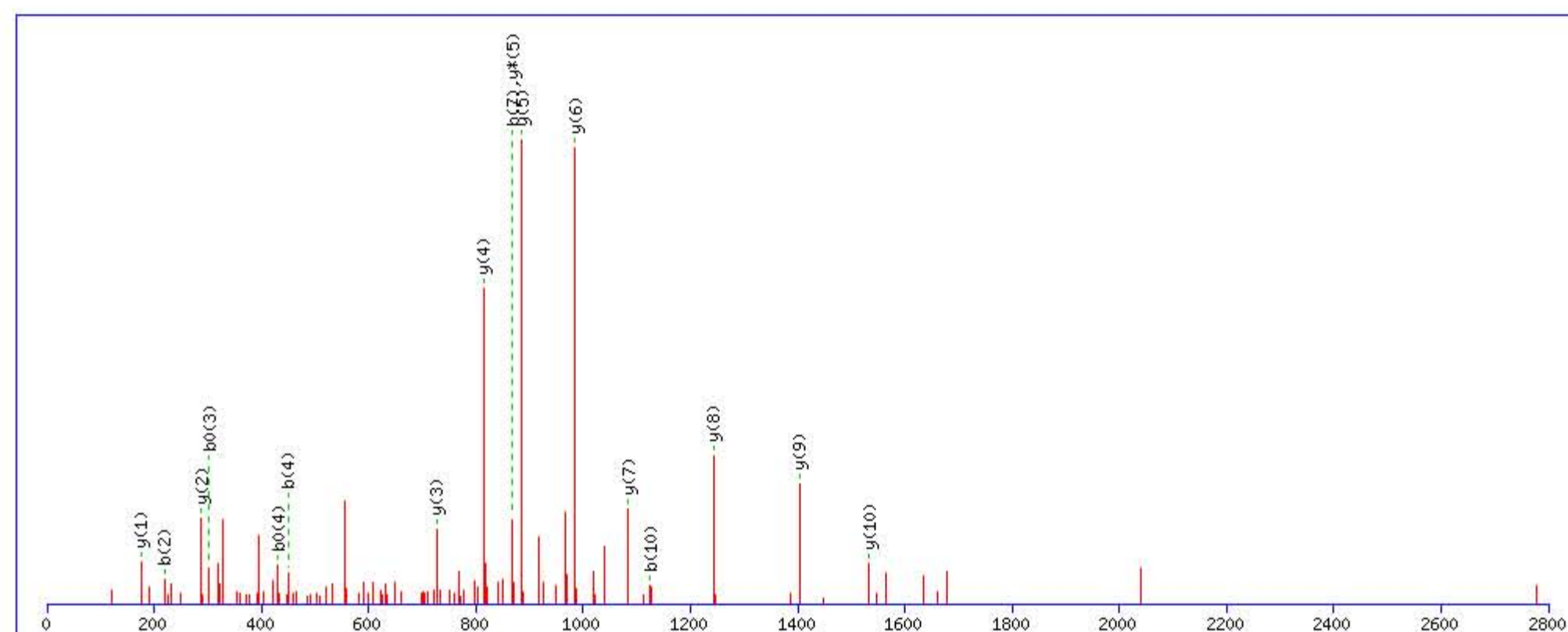
Title: Locus:1.1.1.3427.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1850.884140

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

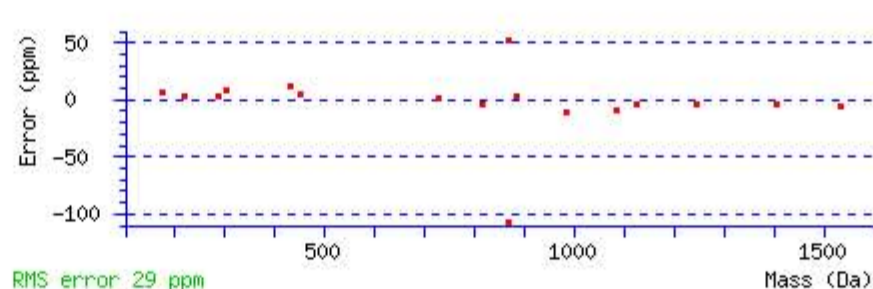
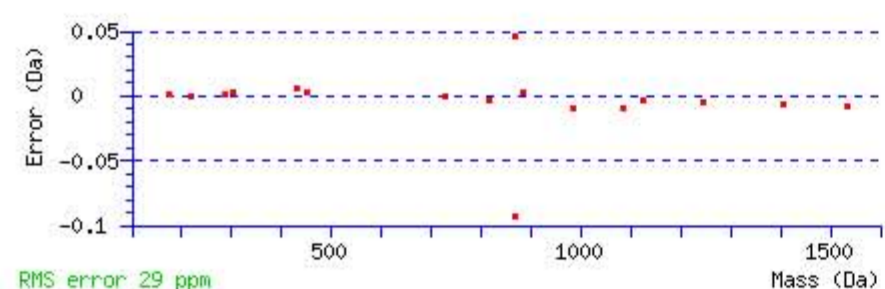
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 61 Expect: 7.7e-006

Matches : 17/114 fragment ions using 31 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							13
2	<b>219.112804</b>	110.060040					F	1780.854296	890.930786	1763.827747	882.417512	1762.843731	881.925504	12
3	320.160483	160.583879			<b>302.149918</b>	151.578597	T	1633.785882	817.396579	1616.759333	808.883305	1615.775317	808.391297	11
4	<b>449.203076</b>	225.105176			<b>431.192511</b>	216.099894	E	<b>1532.738203</b>	766.872740	1515.711654	758.359465	1514.727638	757.867457	10
5	609.233725	305.120501			591.223160	296.115218	C	<b>1403.695610</b>	702.351443	1386.669061	693.838169	1385.685045	693.346161	9
6	769.264374	385.135825			751.253809	376.130543	C	<b>1243.664961</b>	622.336119	1226.638412	613.822844	1225.654396	613.330836	8
7	<b>868.332788</b>	434.670032			850.322223	425.664750	V	<b>1083.634312</b>	542.320794	1066.607763	533.807520	1065.623747	533.315512	7
8	967.401202	484.204239			949.390637	475.198957	V	<b>984.565898</b>	492.786587	967.539349	484.273313	966.555333	483.781305	6
9	1038.438316	519.722796			1020.427751	510.717514	A	<b>885.497484</b>	443.252380	<b>868.470935</b>	434.739106	867.486919	434.247098	5
10	<b>1125.470344</b>	563.238810			1107.459779	554.233528	S	<b>814.460370</b>	407.733823	797.433821	399.220549	796.449805	398.728541	4
11	1564.695670	782.851473	1547.669121	774.338199	1546.685105	773.846191	Q	<b>727.428342</b>	364.217809	710.401793	355.704535			3
12	1677.779734	839.393505	1660.753185	830.880231	1659.769169	830.388223	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
13							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **AFTECCVVASQLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
61.5	1850.884140	-0.002512	<a href="#">AFTECCVVASQLR</a>
6.5	1850.898499	-0.016871	<a href="#">EDGMPVPELYNRIFR</a>
0.2	1850.893127	-0.011499	<a href="#">AMESTATAAVAAELVSADK</a>

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

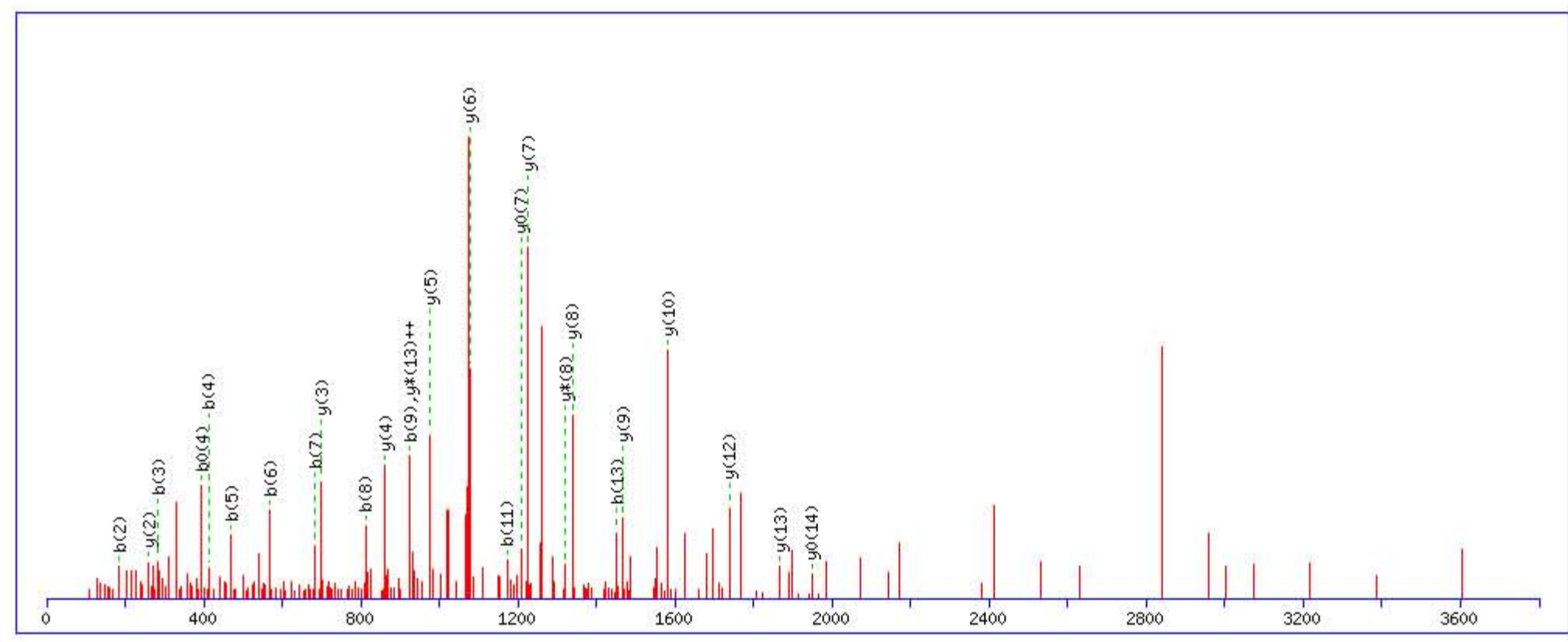
**MATRIX SCIENCE Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **ALVEGV DQLFTDYQIK**  
 Found in **CO5\_HUMAN**, Complement C5 OS=Homo sapiens GN=C5 PE=1 SV=4

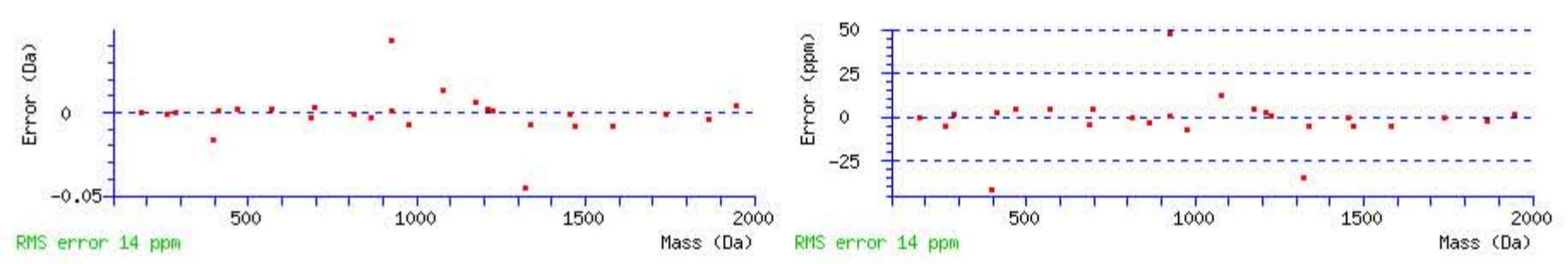
Match to Query 42317: 2149.131308 from(1075.572930,2+) rtinseconds(2848) index(37024)  
 Title: Locus:1.1.1.3653.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2149.112930  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q14 : Biotin:Thermo-21345 (Q)  
 Ions Score: 76 Expect: 7.9e-008  
 Matches : 26/152 fragment ions using 40 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							16
2	<b>185.128454</b>	93.067865					L	2079.083093	1040.045184	2062.056544	1031.531910	2061.072528	1031.039902	15
3	<b>284.196868</b>	142.602072					V	1965.999029	983.503153	1948.972480	974.989878	<b>1947.988464</b>	974.497870	14
4	<b>413.239461</b>	207.123369			<b>395.228896</b>	198.118086	E	<b>1866.930615</b>	933.968946	1849.904066	<b>925.455671</b>	1848.920050	924.963663	13
5	<b>470.260925</b>	235.634100			452.250360	226.628818	G	<b>1737.888022</b>	869.447649	1720.861473	860.934375	1719.877457	860.442367	12
6	<b>569.329339</b>	285.168308			551.318774	276.163025	V	1680.866558	840.936917	1663.840009	832.423643	1662.855993	831.931635	11
7	<b>684.356282</b>	342.681779			666.345717	333.676496	D	<b>1581.798144</b>	791.402710	1564.771595	782.889436	1563.787579	782.397428	10
8	<b>812.414860</b>	406.711068	795.388311	398.197793	794.404295	397.705785	Q	<b>1466.771201</b>	733.889239	1449.744652	725.375964	1448.760636	724.883956	9
9	<b>925.498924</b>	463.253100	908.472375	454.739825	907.488359	454.247818	L	<b>1338.712623</b>	669.859950	<b>1321.686074</b>	661.346675	1320.702058	660.854667	8
10	1072.567338	536.787307	1055.540789	528.274033	1054.556773	527.782025	F	<b>1225.628559</b>	613.317918	1208.602010	604.804643	<b>1207.617994</b>	604.312635	7
11	<b>1173.615017</b>	587.311147	1156.588468	578.797872	1155.604452	578.305864	T	<b>1078.560145</b>	539.783711	1061.533596	531.270436	1060.549580	530.778428	6
12	1288.641960	644.824618	1271.615411	636.311344	1270.631395	635.819336	D	<b>977.512466</b>	489.259871	960.485917	480.746597	959.501901	480.254589	5
13	<b>1451.705289</b>	726.356283	1434.678740	717.843008	1433.694724	717.351000	Y	<b>862.485523</b>	431.746400	845.458974	423.233125			4
14	1890.930615	945.968946	1873.904066	937.455671	1872.920050	936.963663	Q	<b>699.422194</b>	350.214735	682.395645	341.701461			3
15	2004.014679	1002.510978	1986.988130	993.997703	1986.004114	993.505695	I	<b>260.196868</b>	130.602072	243.170319	122.088797			2
16							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **ALVEGV DQLFTDYQIK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
76.2	2149.112930	0.018378	<a href="#">ALVEGV DQLFTDYQIK</a>
13.6	2149.112930	0.018378	<a href="#">ALVEGV DQLFTDYQIK</a>
0.5	2149.116257	0.015051	<a href="#">QDEQLAMKLLTYELK</a>

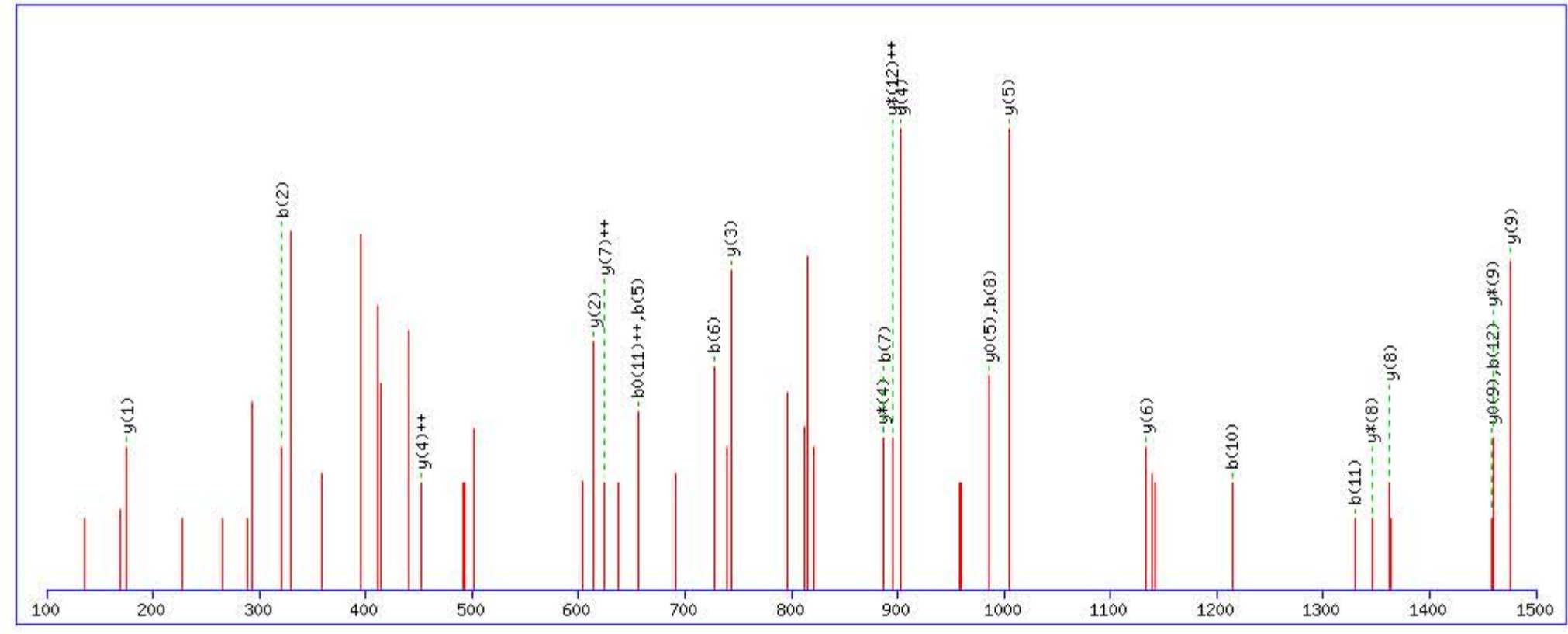
**Peptide View**

MS/MS Fragmentation of **CCYDGACVNNDTCEQR**

Found in **CO5\_HUMAN**, Complement C5 OS=Homo sapiens GN=C5 PE=1 SV=4

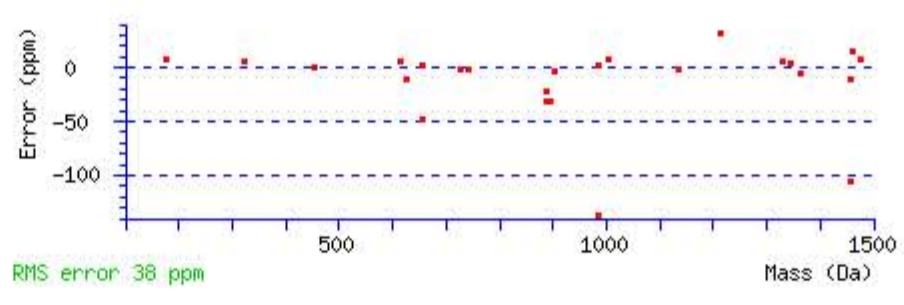
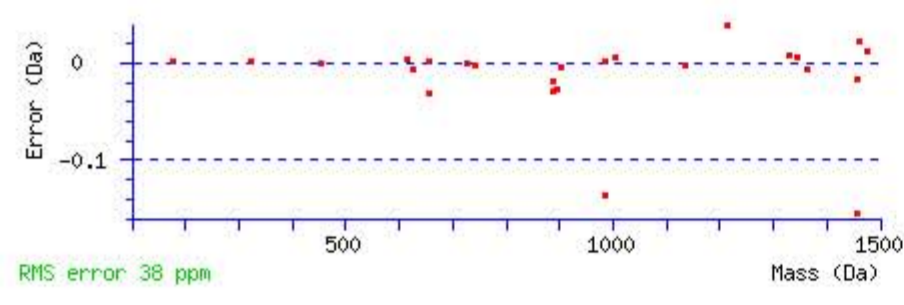
Match to Query 47462: 2460.930432 from(821.317420,3+) rtinseconds(1600) index(29397)  
 Title: Locus:1.1.1.3220.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2460.922531  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q16 : Biotin:Thermo-21345 (Q)  
 Ions Score: 46 Expect: 2.3e-005  
 Matches : 25/166 fragment ions using 46 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	161.037925	81.022600					C							17
2	<b>321.068574</b>	161.037925					C	2301.899151	1151.453213	2284.872602	1142.939939	2283.888586	1142.447931	16
3	484.131903	242.569590					Y	2141.868502	1071.437889	2124.841953	1062.924614	2123.857937	1062.432606	15
4	599.158846	300.083061			581.148281	291.077779	D	1978.805173	989.906225	1961.778624	981.392950	1960.794608	980.900942	14
5	<b>656.180310</b>	328.593793			638.169745	319.588511	G	1863.778230	932.392753	1846.751681	923.879479	1845.767665	923.387471	13
6	<b>727.217424</b>	364.112350			709.206859	355.107068	A	1806.756766	903.882021	1789.730217	<b>895.368747</b>	1788.746201	894.876739	12
7	<b>887.248073</b>	444.127675			869.237508	435.122392	C	1735.719652	868.363464	1718.693103	859.850190	1717.709087	859.358182	11
8	<b>986.316487</b>	493.661882			968.305922	484.656599	V	1575.689003	788.348140	1558.662454	779.834865	1557.678438	779.342857	10
9	1100.359414	550.683345	1083.332865	542.170071	1082.348849	541.678063	N	<b>1476.620589</b>	738.813933	<b>1459.594040</b>	730.300658	<b>1458.610024</b>	729.808650	9
10	<b>1214.402341</b>	607.704809	1197.375792	599.191534	1196.391776	598.699526	N	<b>1362.577662</b>	681.792469	<b>1345.551113</b>	673.279195	1344.567097	672.787187	8
11	<b>1329.429284</b>	665.218280	1312.402735	656.705006	1311.418719	<b>656.212998</b>	D	1248.534735	<b>624.771006</b>	1231.508186	616.257731	1230.524170	615.765723	7
12	<b>1458.471877</b>	729.739577	1441.445328	721.226302	1440.461312	720.734294	E	<b>1133.507792</b>	567.257534	1116.481243	558.744260	1115.497227	558.252252	6
13	1559.519556	780.263416	1542.493007	771.750142	1541.508991	771.258134	T	<b>1004.465199</b>	502.736238	987.438650	494.222963	<b>986.454634</b>	493.730955	5
14	1719.550205	860.278741	1702.523656	851.765466	1701.539640	851.273458	C	<b>903.417520</b>	<b>452.212398</b>	<b>886.390971</b>	443.699124	885.406955	443.207116	4
15	1848.592798	924.800037	1831.566249	916.286763	1830.582233	915.794755	E	<b>743.386871</b>	372.197074	726.360322	363.683799	725.376306	363.191791	3
16	2287.818124	1144.412700	2270.791575	1135.899426	2269.807559	1135.407418	Q	<b>614.344278</b>	307.675777	597.317729	299.162503			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **CCYDGACVNNDTCEQR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	$M_r(\text{calc})$ :	Delta	Sequence
46.5	2460.922531	0.007901	<a href="#">CCYDGACVNNDTCEQR</a>

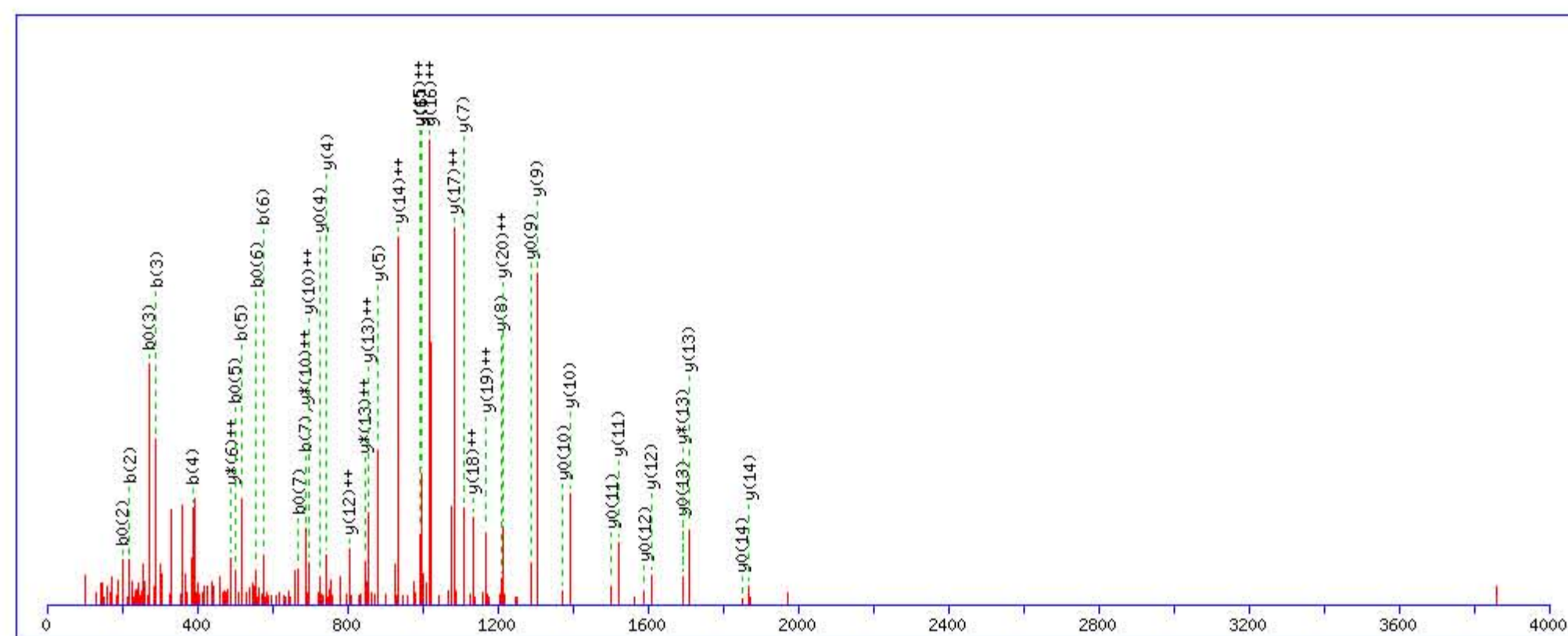
**MASCOT** Mascot Search Results

Peptide View

MS/MS Fragmentation of **MSAVEGICTSESPVIDHQGTK**  
 Found in **CO5\_HUMAN**, Complement C5 OS=Homo sapiens GN=C5 PE=1 SV=4

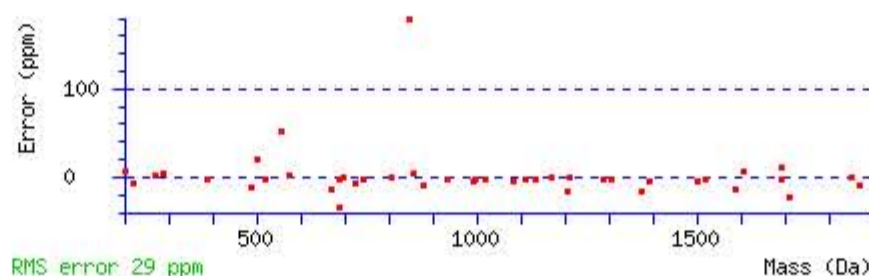
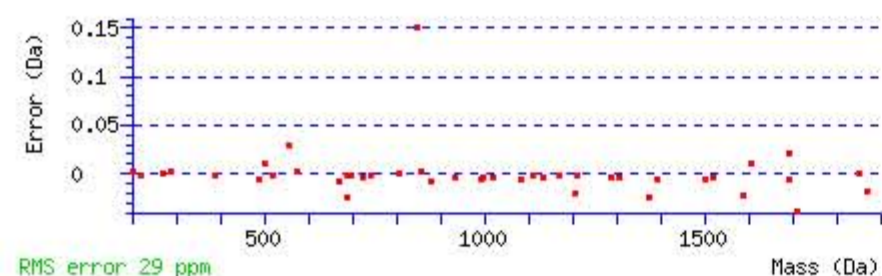
Match to Query 49061: 2556.195702 from(853.072510,3+) rtinseconds(1964) index(31596)  
 Title: Locus:1.1.1.3347.26 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2556.202240  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q18 : Biotin:Thermo-21345 (Q)  
 Ions Score: 83 Expect: 2.2e-008  
 Matches : 43/202 fragment ions using 65 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							21
2	219.079789	110.043532			201.069224	101.038250	S	2426.169024	1213.588150	2409.142475	1205.074875	2408.158459	1204.582867	20
3	290.116903	145.562089			272.106338	136.556807	A	2339.136996	1170.072136	2322.110447	1161.558861	2321.126431	1161.066853	19
4	389.185317	195.096296			371.174752	186.091014	V	2268.099882	1134.553579	2251.073333	1126.040304	2250.089317	1125.548296	18
5	518.227910	259.617593			500.217345	250.612311	E	2169.031468	1085.019372	2152.004919	1076.506097	2151.020903	1076.014089	17
6	575.249374	288.128325			557.238809	279.123043	G	2039.988875	1020.498076	2022.962326	1011.984801	2021.978310	1011.492793	16
7	688.333438	344.670357			670.322873	335.665075	I	1982.967411	991.987343	1965.940862	983.474069	1964.956846	982.982061	15
8	848.364087	424.685682			830.353522	415.680399	C	1869.883347	935.445312	1852.856798	926.932037	1851.872782	926.440029	14
9	949.411766	475.209521			931.401201	466.204239	T	1709.852698	855.429987	1692.826149	846.916713	1691.842133	846.424704	13
10	1036.443794	518.725535			1018.433229	509.720253	S	1608.805019	804.906147	1591.778470	796.392873	1590.794454	795.900865	12
11	1165.486387	583.246832			1147.475822	574.241549	E	1521.772991	761.390133	1504.746442	752.876859	1503.762426	752.384851	11
12	1252.518415	626.762846			1234.507850	617.757563	S	1392.730398	696.868837	1375.703849	688.355563	1374.719833	687.863554	10
13	1349.571179	675.289228			1331.560614	666.283945	P	1305.698370	653.352823	1288.671821	644.839548	1287.687805	644.347540	9
14	1448.639593	724.823435			1430.629028	715.818152	V	1208.645606	604.826441	1191.619057	596.313166	1190.635041	595.821158	8
15	1561.723657	781.365467			1543.713092	772.360184	I	1109.577192	555.292234	1092.550643	546.778959	1091.566627	546.286951	7
16	1676.750600	838.878938			1658.740035	829.873656	D	996.493128	498.750202	979.466579	490.236927	978.482563	489.744919	6
17	1813.809512	907.408394			1795.798947	898.403112	H	881.466185	441.236730	864.439636	432.723456	863.455620	432.231448	5
18	2253.034838	1127.021057	2236.008289	1118.507782	2235.024273	1118.015774	Q	744.407273	372.707274	727.380724	364.194000	726.396708	363.701992	4
19	2310.056302	1155.531789	2293.029753	1147.018514	2292.045737	1146.526506	G	305.181947	153.094611	288.155398	144.581337	287.171382	144.089329	3
20	2411.103981	1206.055628	2394.077432	1197.542354	2393.093416	1197.050346	T	248.160483	124.583879	231.133934	116.070605	230.149918	115.578597	2
21							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **MSAVEGICTSESPVIDHQGTK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
82.6	2556.202240	-0.006538	<a href="#">MSAVEGICTSESPVIDHQGTK</a>
1.0	2556.161118	0.034584	<a href="#">EAADMILVDDDFQTMSAIEEGK</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QGDVECQR**

Found in **CO6\_HUMAN**, Complement component C6 OS=Homo sapiens GN=C6 PE=1 SV=3

Match to Query 20386: 1301.579668 from(651.797110,2+) rtinseconds(1375) index(15070)

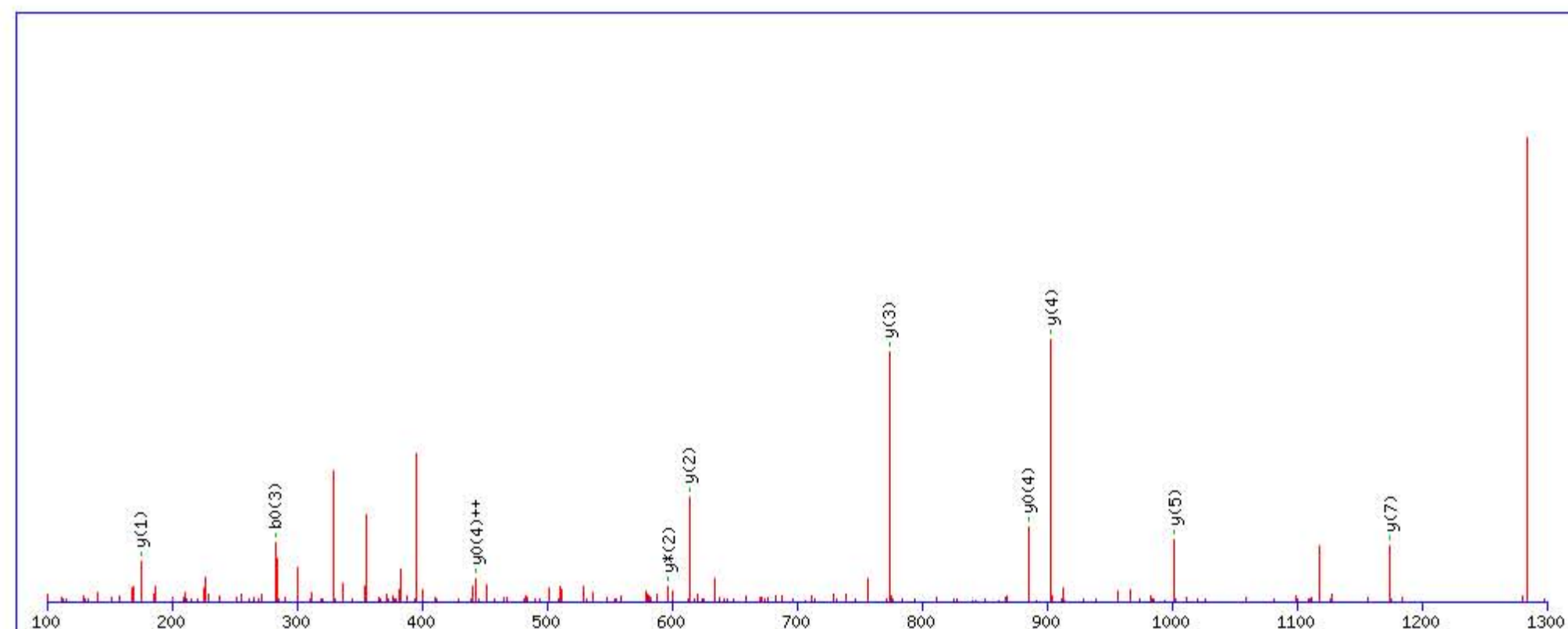
Title: Locus:1.1.1.3044.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1301.585648

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

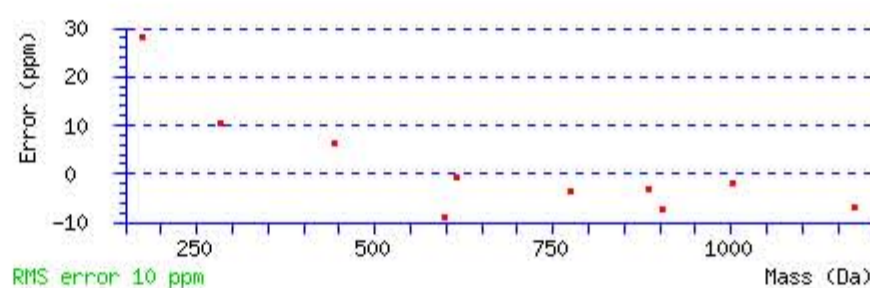
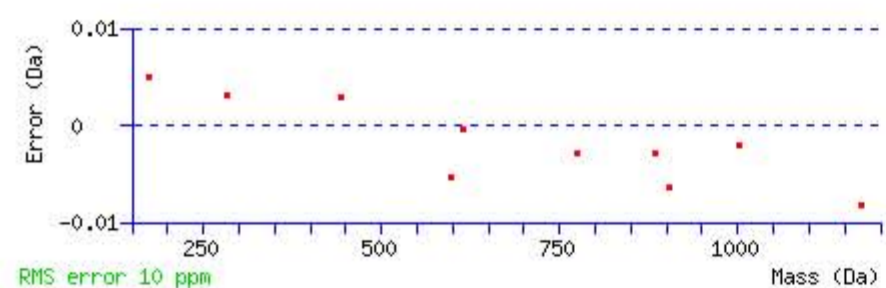
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 52 Expect: 2.7e-005

Matches : 10/74 fragment ions using 12 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.065854	65.036565	112.039305	56.523291			Q							8
2	186.087318	93.547297	169.060769	85.034023			G	<b>1174.534341</b>	587.770809	1157.507792	579.257534	1156.523776	578.765526	7
3	301.114261	151.060768	284.087712	142.547494	<b>283.103696</b>	142.055486	D	1117.512877	559.260077	1100.486328	550.746802	1099.502312	550.254794	6
4	400.182675	200.594976	383.156126	192.081701	382.172110	191.589693	V	<b>1002.485934</b>	501.746605	985.459385	493.233331	984.475369	492.741323	5
5	529.225268	265.116272	512.198719	256.602998	511.214703	256.110990	E	<b>903.417520</b>	452.212398	886.390971	443.699124	<b>885.406955</b>	<b>443.207116</b>	4
6	689.255917	345.131597	672.229368	336.618322	671.245352	336.126314	C	<b>774.374927</b>	387.691102	757.348378	379.177827			3
7	1128.481243	564.744260	1111.454694	556.230985	1110.470678	555.738977	Q	<b>614.344278</b>	307.675777	<b>597.317729</b>	299.162503			2
8							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **QGDVECQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
52.0	1301.585648	-0.005980	<a href="#">QGDVECQR</a>
8.1	1301.584747	-0.005079	<a href="#">QESPSQENIDR</a>
7.1	1301.584763	-0.005095	<a href="#">KATEDAEGGDGPR</a>
4.5	1301.560471	0.019197	<a href="#">QEPRCEAPCR</a>
2.1	1301.567001	0.012667	<a href="#">RDQCEAPSDPK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **TCNSGTQSR**

Found in **CO6\_HUMAN**, Complement component C6 OS=Homo sapiens GN=C6 PE=1 SV=3

Match to Query 20677: 1320.585268 from(661.299910,2+) rtinseconds(1132) index(14125)

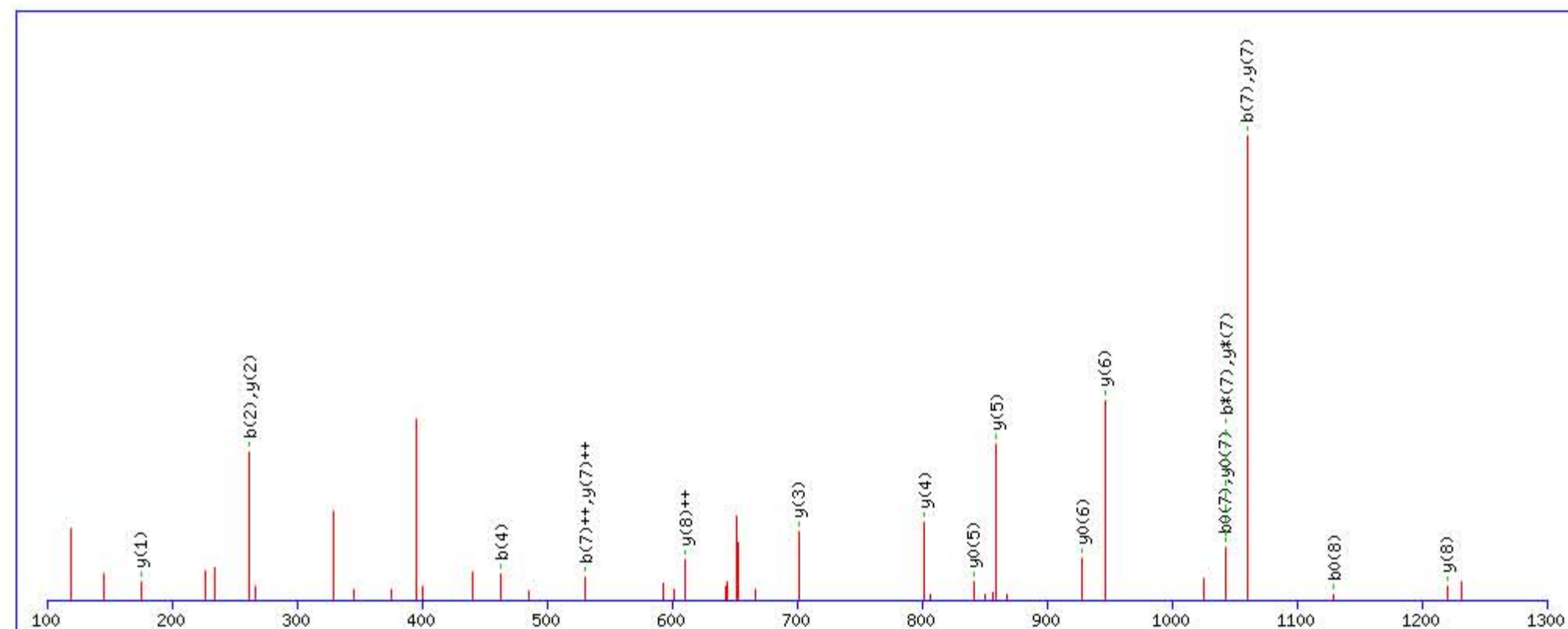
Title: Locus:1.1.1.2959.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1320.591461

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

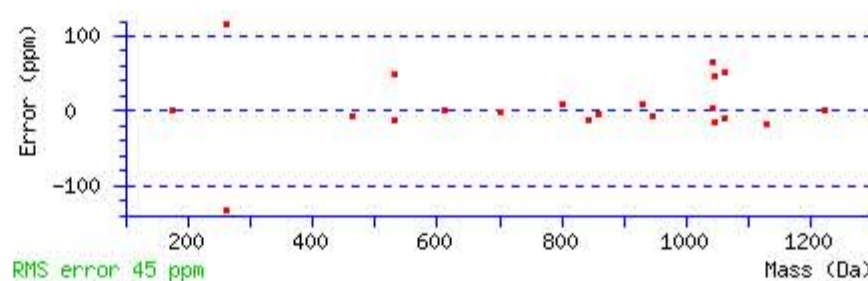
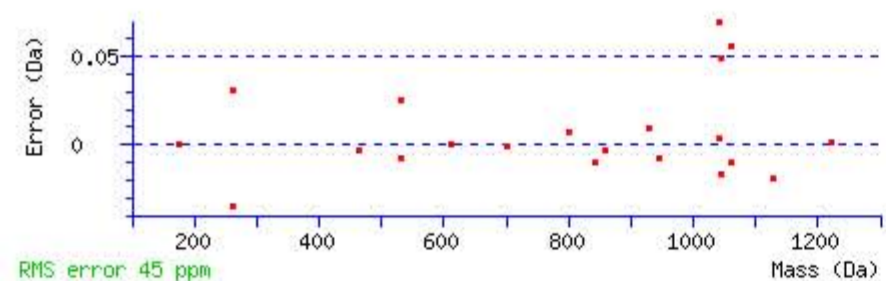
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 55 Expect: 1.8e-005

Matches : 21/90 fragment ions using 31 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							9
2	<b>262.085604</b>	131.546440			244.075039	122.541158	C	<b>1220.551053</b>	<b>610.779165</b>	1203.524504	602.265890	1202.540488	601.773882	8
3	376.128531	188.567904	359.101982	180.054629	358.117966	179.562621	N	<b>1060.520404</b>	<b>530.763840</b>	<b>1043.493855</b>	522.250566	<b>1042.509839</b>	521.758558	7
4	<b>463.160559</b>	232.083917	446.134010	223.570643	445.149994	223.078635	S	<b>946.477477</b>	473.742377	929.450928	465.229102	<b>928.466912</b>	464.737094	6
5	520.182023	260.594650	503.155474	252.081375	502.171458	251.589367	G	<b>859.445449</b>	430.226363	842.418900	421.713088	<b>841.434884</b>	421.221080	5
6	621.229702	311.118489	604.203153	302.605215	603.219137	302.113207	T	<b>802.423985</b>	401.715631	785.397436	393.202356	784.413420	392.710348	4
7	<b>1060.455028</b>	<b>530.731152</b>	<b>1043.428479</b>	522.217878	<b>1042.444463</b>	521.725870	Q	<b>701.376306</b>	351.191791	684.349757	342.678517	683.365741	342.186509	3
8	1147.487056	574.247166	1130.460507	565.733892	<b>1129.476491</b>	565.241884	S	<b>262.150980</b>	131.579128	245.124431	123.065854	244.140415	122.573846	2
9							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **TCNSGTQSR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
55.2	1320.591461	-0.006193	<a href="#">TCNSGTQSR</a>
11.9	1320.599289	-0.014021	<a href="#">NELPMHHN SSR</a>
4.2	1320.584045	0.001223	<a href="#">SQGCSREASPSR</a>
3.0	1320.597946	-0.012678	<a href="#">LMNTNDLEESR</a>
2.1	1320.570984	0.014284	<a href="#">MNWFGSNFFR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **QLEWGLER**

Found in **CO6\_HUMAN**, Complement component C6 OS=Homo sapiens GN=C6 PE=1 SV=3

Match to Query 21145: 1340.687588 from(671.351070,2+) rtinseconds(2257) index(33403)

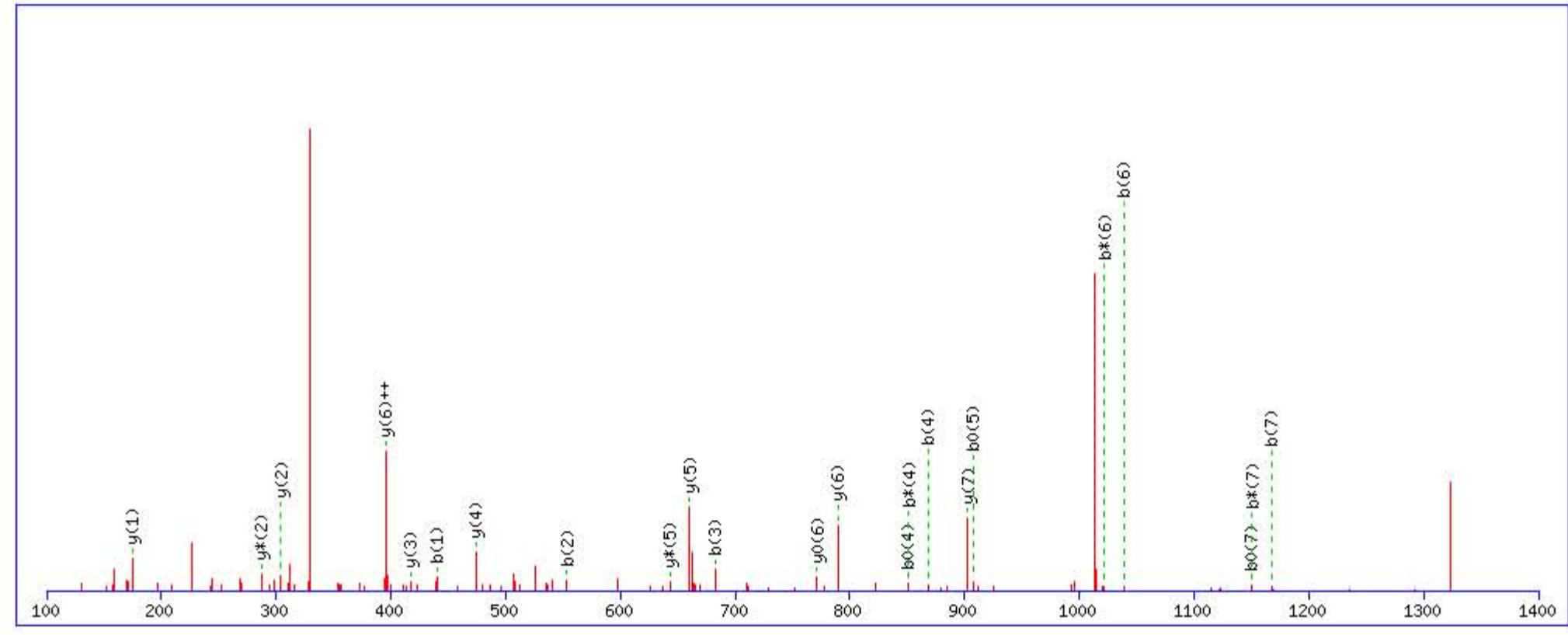
Title: Locus:1.1.1.3449.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1340.691071

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

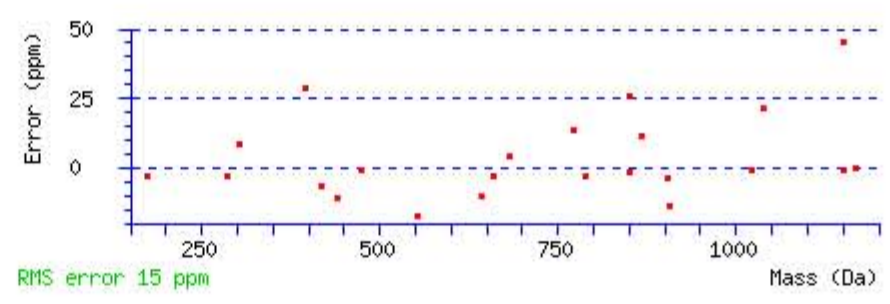
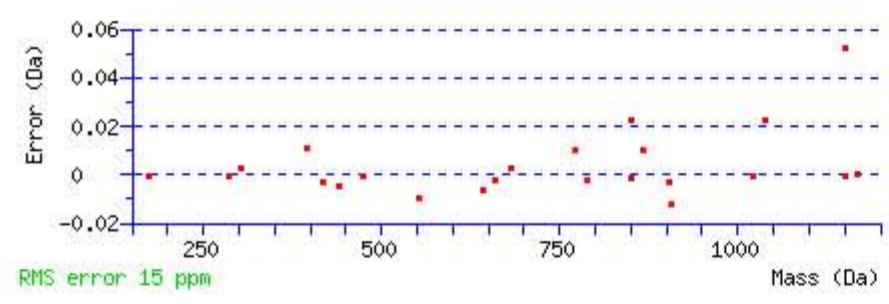
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 27 Expect: 0.032

Matches : 23/78 fragment ions using 56 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							8
2	553.316666	277.161971	536.290117	268.648697			L	902.473043	451.740160	885.446494	443.226885	884.462478	442.734877	7
3	682.359259	341.683268	665.332710	333.169993	664.348694	332.677985	E	789.388979	395.198128	772.362430	386.684853	771.378414	386.192845	6
4	868.438572	434.722924	851.412023	426.209650	850.428007	425.717642	W	660.346386	330.676831	643.319837	322.163556	642.335821	321.671548	5
5	925.460036	463.233656	908.433487	454.720382	907.449471	454.228374	G	474.267073	237.637174	457.240524	229.123900	456.256508	228.631892	4
6	1038.544100	519.775688	1021.517551	511.262414	1020.533535	510.770406	L	417.245609	209.126442	400.219060	200.613168	399.235044	200.121160	3
7	1167.586693	584.296985	1150.560144	575.783710	1149.576128	575.291702	E	304.161545	152.584410	287.134996	144.071136	286.150980	143.579128	2
8							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **QLEWGLER**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
26.8	1340.691071	-0.003483	<a href="#">QLEWGLER</a>
10.2	1340.668427	0.019161	<a href="#">SELGGTDLEKHR</a>
9.5	1340.675812	0.011776	<a href="#">QLQDELER</a>
7.9	1340.675812	0.011776	<a href="#">LQEGEGIR</a>
4.9	1340.687027	0.000561	<a href="#">QLREEAER</a>
3.9	1340.704834	-0.017246	<a href="#">LTLNDSSVTVHR</a>
3.1	1340.694916	-0.007328	<a href="#">RNGLEPVTYHR</a>
3.1	1340.675812	0.011776	<a href="#">QVELQEER</a>
2.8	1340.687042	0.000546	<a href="#">QINDSANLR</a>
2.4	1340.687042	0.000546	<a href="#">ALGSAAADAQR</a>

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **ECNNPAPQR**

Found in **CO6\_HUMAN**, Complement component C6 OS=Homo sapiens GN=C6 PE=1 SV=3

Match to Query 23508: 1395.637422 from(466.219750,3+) rtinseconds(1333) index(14883)

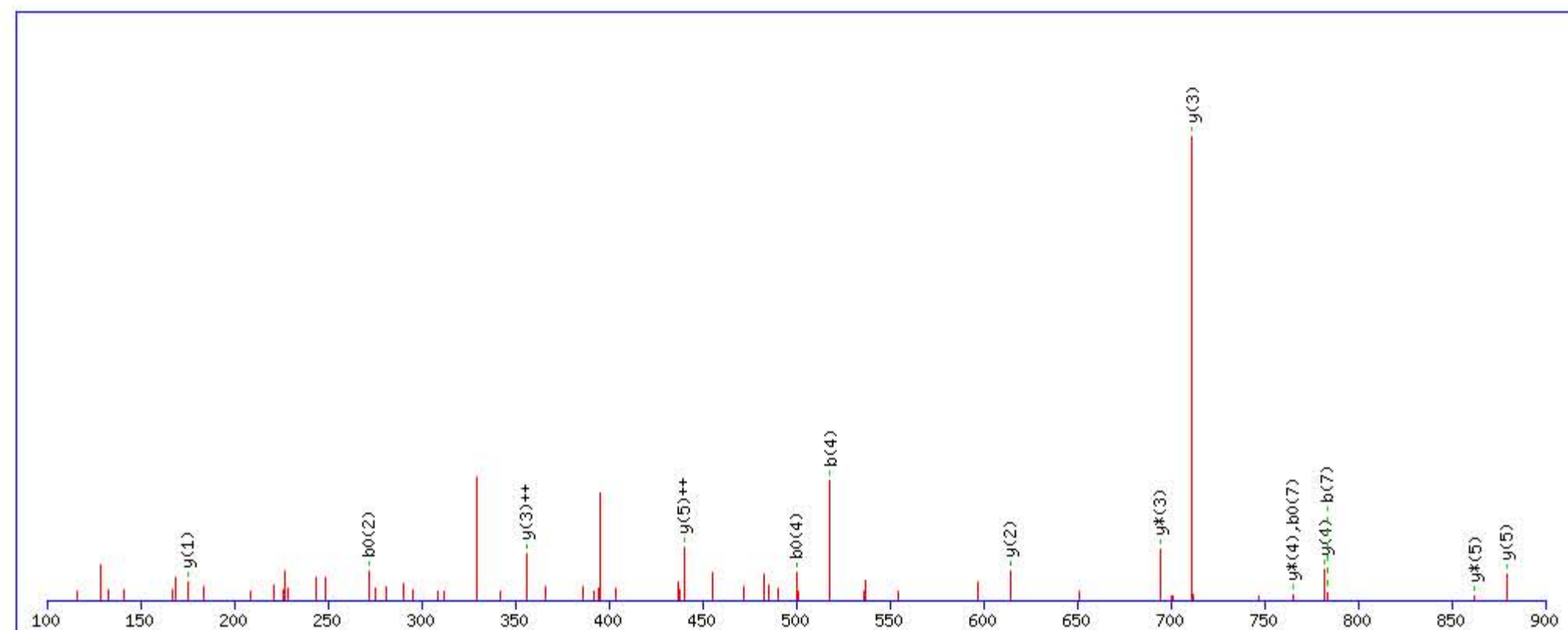
Title: Locus:1.1.1.3030.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide **Mr(calc)**: 1395.638718

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

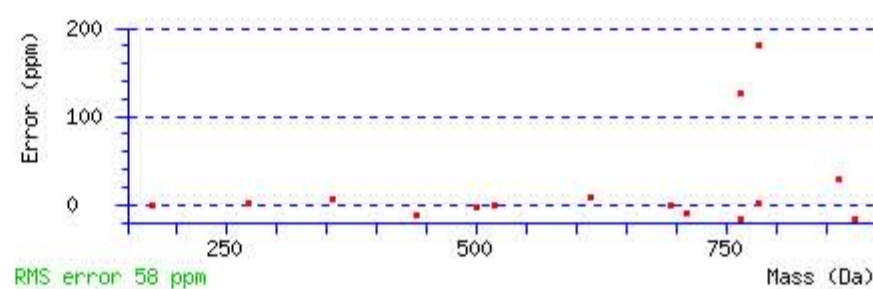
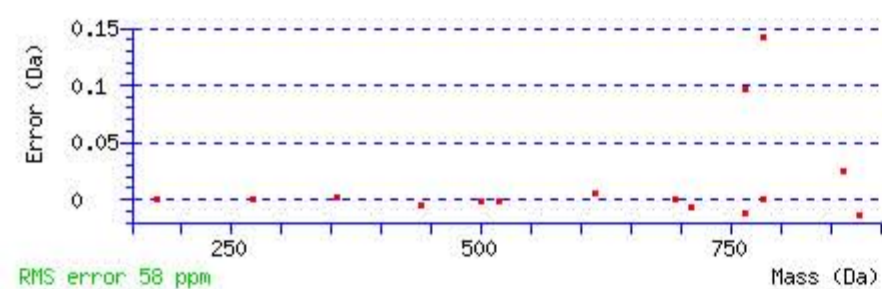
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 27 Expect: 0.0043

Matches : 15/76 fragment ions using 23 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E					9
2	290.080518	145.543897			272.069953	136.538615	C	1267.603423	634.305350	1250.576874	625.792075	8
3	404.123445	202.565361	387.096896	194.052086	386.112880	193.560078	N	1107.572774	554.290025	1090.546225	545.776751	7
4	518.166372	259.586824	501.139823	251.073550	500.155807	250.581542	N	993.529847	497.268562	976.503298	488.755287	6
5	615.219136	308.113206	598.192587	299.599932	597.208571	299.107924	P	879.486920	440.247098	862.460371	431.733824	5
6	686.256250	343.631763	669.229701	335.118489	668.245685	334.626481	A	782.434156	391.720716	765.407607	383.207442	4
7	783.309014	392.158145	766.282465	383.644871	765.298449	383.152863	P	711.397042	356.202159	694.370493	347.688885	3
8	1222.534340	611.770808	1205.507791	603.257534	1204.523775	602.765526	Q	614.344278	307.675777	597.317729	299.162503	2
9							R	175.118952	88.063114	158.092403	79.549839	1



NCBI BLAST search of **ECNNPAPQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
27.4	1395.638718	-0.001296	<a href="#">ECNNPAPQR</a>
2.0	1395.631332	0.006090	<a href="#">HLQENTQSHMR</a>
1.2	1395.627502	0.009920	<a href="#">QHAGMFSISQMK</a>
1.0	1395.645264	-0.007842	<a href="#">LNKDFTC DVER</a>
0.0	1395.645264	-0.007842	<a href="#">VTEQCFNTLR</a>

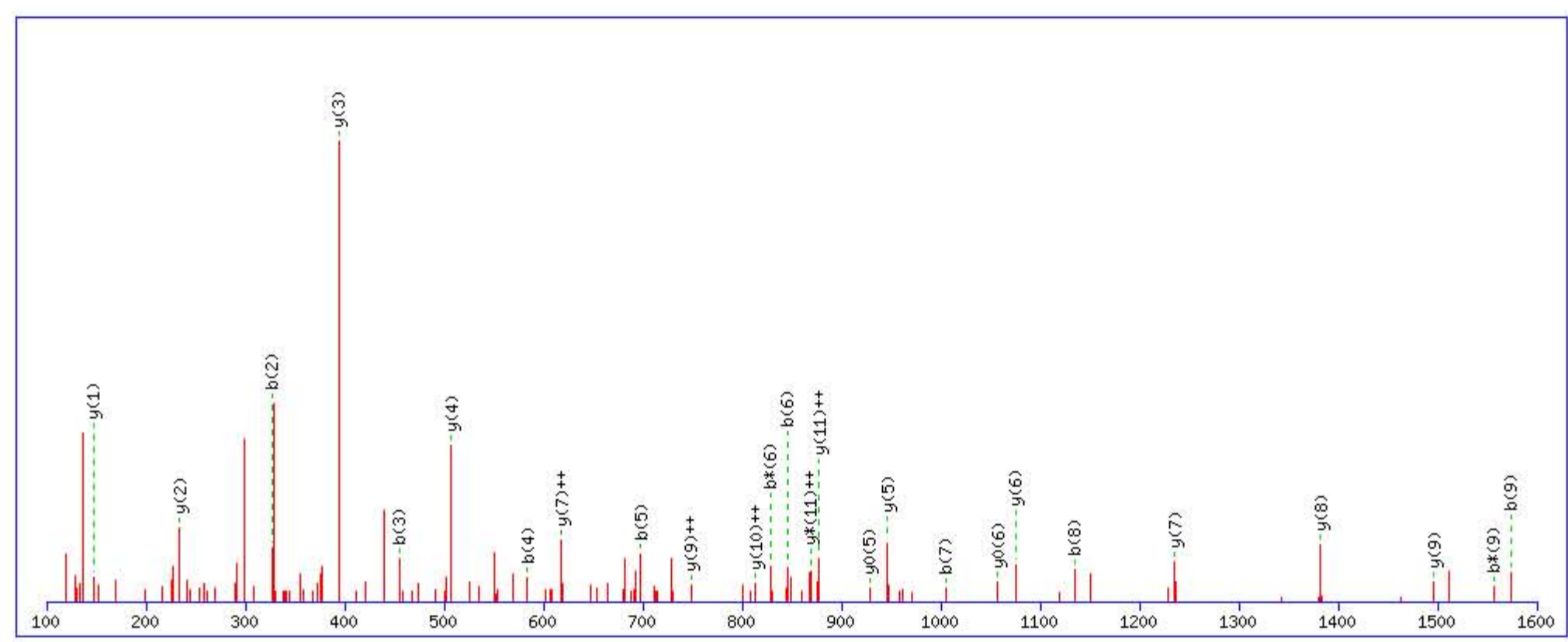
# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **YYQENFCEQICKS**  
 Found in **CO6\_HUMAN**, Complement component C6 OS=Homo sapiens GN=C6 PE=1 SV=3

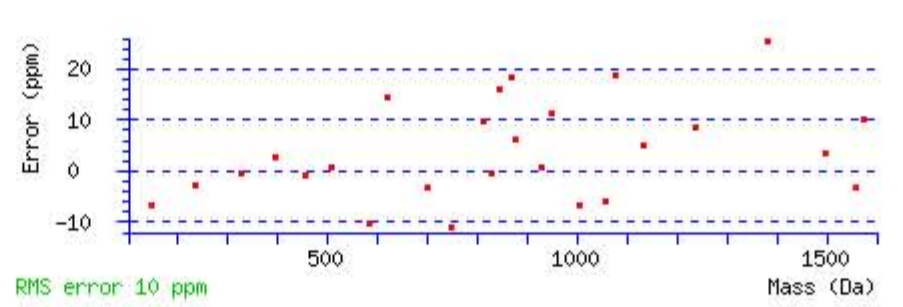
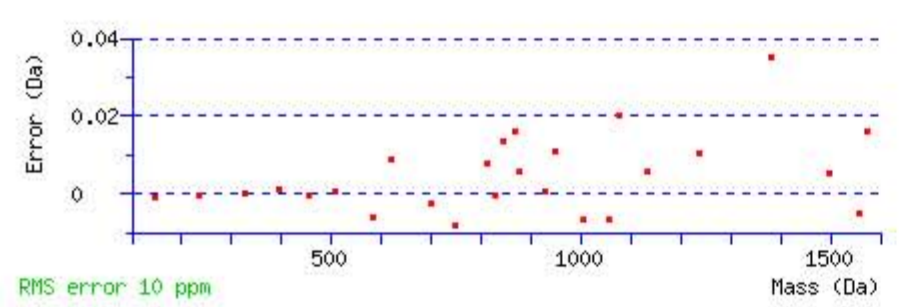
Match to Query 41286: 2078.885772 from(693.969200,3+) rtinseconds(2067) index(32264)  
 Title: Locus:1.1.1.3383.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2078.889984  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q9 : Biotin:Thermo-21345 (Q)  
 Ions Score: 43 Expect: 0.00014  
 Matches : 26/132 fragment ions using 53 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							13
2	<b>327.133934</b>	164.070605					Y	1916.833954	958.920615	1899.807405	950.407341	1898.823389	949.915333	12
3	<b>455.192512</b>	228.099894	438.165963	219.586620			Q	1753.770625	<b>877.388951</b>	1736.744076	<b>868.875676</b>	1735.760060	868.383668	11
4	<b>584.235105</b>	292.621191	567.208556	284.107916	566.224540	283.615908	E	1625.712047	<b>813.359662</b>	1608.685498	804.846387	1607.701482	804.354379	10
5	<b>698.278032</b>	349.642654	681.251483	341.129380	680.267467	340.637372	N	<b>1496.669454</b>	<b>748.838365</b>	1479.642905	740.325091	1478.658889	739.833083	9
6	<b>845.346446</b>	423.176861	<b>828.319897</b>	414.663587	827.335881	414.171579	F	<b>1382.626527</b>	691.816902	1365.599978	683.303627	1364.615962	682.811619	8
7	<b>1005.377095</b>	503.192186	988.350546	494.678911	987.366530	494.186903	C	<b>1235.558113</b>	<b>618.282695</b>	1218.531564	609.769420	1217.547548	609.277412	7
8	<b>1134.419688</b>	567.713482	1117.393139	559.200208	1116.409123	558.708200	E	<b>1075.527464</b>	538.267370	1058.500915	529.754096	<b>1057.516899</b>	529.262088	6
9	<b>1573.645014</b>	787.326145	<b>1556.618465</b>	778.812871	1555.634449	778.320863	Q	<b>946.484871</b>	473.746074	929.458322	465.232799	<b>928.474306</b>	464.740791	5
10	1686.729078	843.868177	1669.702529	835.354903	1668.718513	834.862895	I	<b>507.259545</b>	254.133411	490.232996	245.620136	489.248980	245.128128	4
11	1846.759727	923.883502	1829.733178	915.370227	1828.749162	914.878219	C	<b>394.175481</b>	197.591379	377.148932	189.078104	376.164916	188.586096	3
12	1933.791755	967.399516	1916.765206	958.886241	1915.781190	958.394233	S	<b>234.144832</b>	117.576054	217.118283	109.062780	216.134267	108.570772	2
13							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **YYQENFCEQICKS**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
43.2	2078.889984	-0.004212	<a href="#">YYQENFCEQICKS</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VPANLENVGFEVQTAEDDLK**

Found in **CO6\_HUMAN**, Complement component C6 OS=Homo sapiens GN=C6 PE=1 SV=3

Match to Query 48501: 2498.246292 from(833.756040,3+) rtinseconds(2666) index(22707)

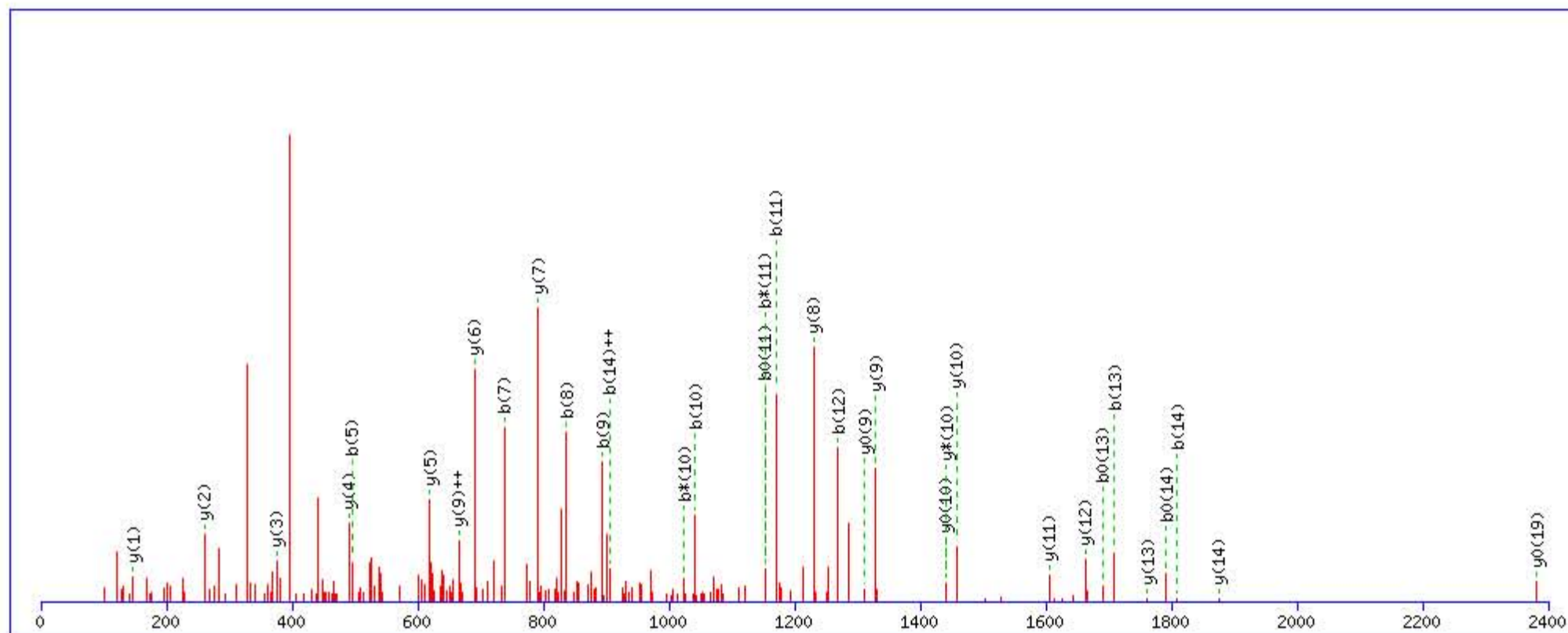
Title: Locus:1.1.1.3493.23 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2498.236282

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

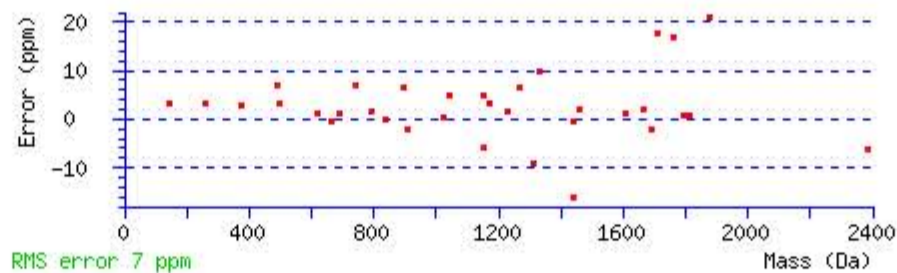
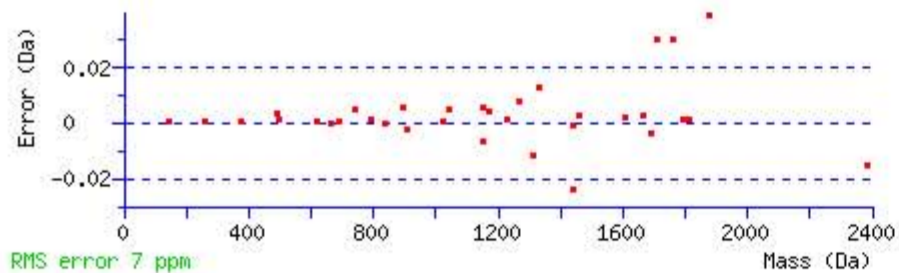
Variable modifications:

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 91 Expect: 2.3e-008

Matches : 34/208 fragment ions using 53 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							20
2	197.128454	99.067865					P	2400.175154	1200.591215	2383.148605	1192.077940	2382.164589	1191.585932	19
3	268.165568	134.586422					A	2303.122390	1152.064833	2286.095841	1143.551558	2285.111825	1143.059550	18
4	382.208495	191.607885	365.181946	183.094611			N	2232.085276	1116.546276	2215.058727	1108.033001	2214.074711	1107.540993	17
5	<b>495.292559</b>	248.149917	478.266010	239.636643			L	2118.042349	1059.524812	2101.015800	1051.011538	2100.031784	1050.519530	16
6	624.335152	312.671214	607.308603	304.157940	606.324587	303.665932	E	2004.958285	1002.982781	1987.931736	994.469506	1986.947720	993.977498	15
7	<b>738.378079</b>	369.692678	721.351530	361.179403	720.367514	360.687395	N	<b>1875.915692</b>	938.461484	1858.889143	929.948210	1857.905127	929.456202	14
8	<b>837.446493</b>	419.226885	820.419944	410.713610	819.435928	410.221602	V	<b>1761.872765</b>	881.440021	1744.846216	872.926746	1743.862200	872.434738	13
9	<b>894.467957</b>	447.737617	877.441408	439.224342	876.457392	438.732334	G	<b>1662.804351</b>	831.905814	1645.777802	823.392539	1644.793786	822.900531	12
10	<b>1041.536371</b>	521.271824	<b>1024.509822</b>	512.758549	1023.525806	512.266541	F	<b>1605.782887</b>	803.395082	1588.756338	794.881807	1587.772322	794.389799	11
11	<b>1170.578964</b>	585.793120	<b>1153.552415</b>	577.279846	<b>1152.568399</b>	576.787838	E	<b>1458.714473</b>	729.860875	<b>1441.687924</b>	721.347600	<b>1440.703908</b>	720.855592	10
12	<b>1269.647378</b>	635.327327	1252.620829	626.814053	1251.636813	626.322045	V	<b>1329.671880</b>	<b>665.339578</b>	1312.645331	656.826304	<b>1311.661315</b>	656.334296	9
13	<b>1708.872704</b>	854.939990	1691.846155	846.426716	<b>1690.862139</b>	845.934708	Q	<b>1230.603466</b>	615.805371	1213.576917	607.292097	1212.592901	606.800089	8
14	<b>1809.920383</b>	<b>905.463830</b>	1792.893834	896.950555	<b>1791.909818</b>	896.458547	T	<b>791.378140</b>	396.192708	774.351591	387.679434	773.367575	387.187426	7
15	1880.957497	940.982387	1863.930948	932.469112	1862.946932	931.977104	A	<b>690.330461</b>	345.668869	673.303912	337.155594	672.319896	336.663586	6
16	2010.000090	1005.503683	1992.973541	996.990409	1991.989525	996.498401	E	<b>619.293347</b>	310.150312	602.266798	301.637037	601.282782	301.145029	5
17	2125.027033	1063.017154	2108.000484	1054.503880	2107.016468	1054.011872	D	<b>490.250754</b>	245.629015	473.224205	237.115740	472.240189	236.623732	4
18	2240.053976	1120.530626	2223.027427	1112.017351	2222.043411	1111.525343	D	<b>375.223811</b>	188.115543	358.197262	179.602269	357.213246	179.110261	3
19	2353.138040	1177.072658	2336.111491	1168.559383	2335.127475	1168.067375	L	<b>260.196868</b>	130.602072	243.170319	122.088798			2
20							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [VPANLENVGFEVQTAEDDLK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
91.1	2498.236282	0.010010	<a href="#">VPANLENVGFEVQTAEDDLK</a>

**MASCOT** SCIENCE Mascot Search Results

Peptide View

MS/MS Fragmentation of **SFGGQCR**

Found in **CO7\_HUMAN**, Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

Match to Query 14863: 1121.508988 from(561.761770,2+) rtinseconds(1587) index(2517)

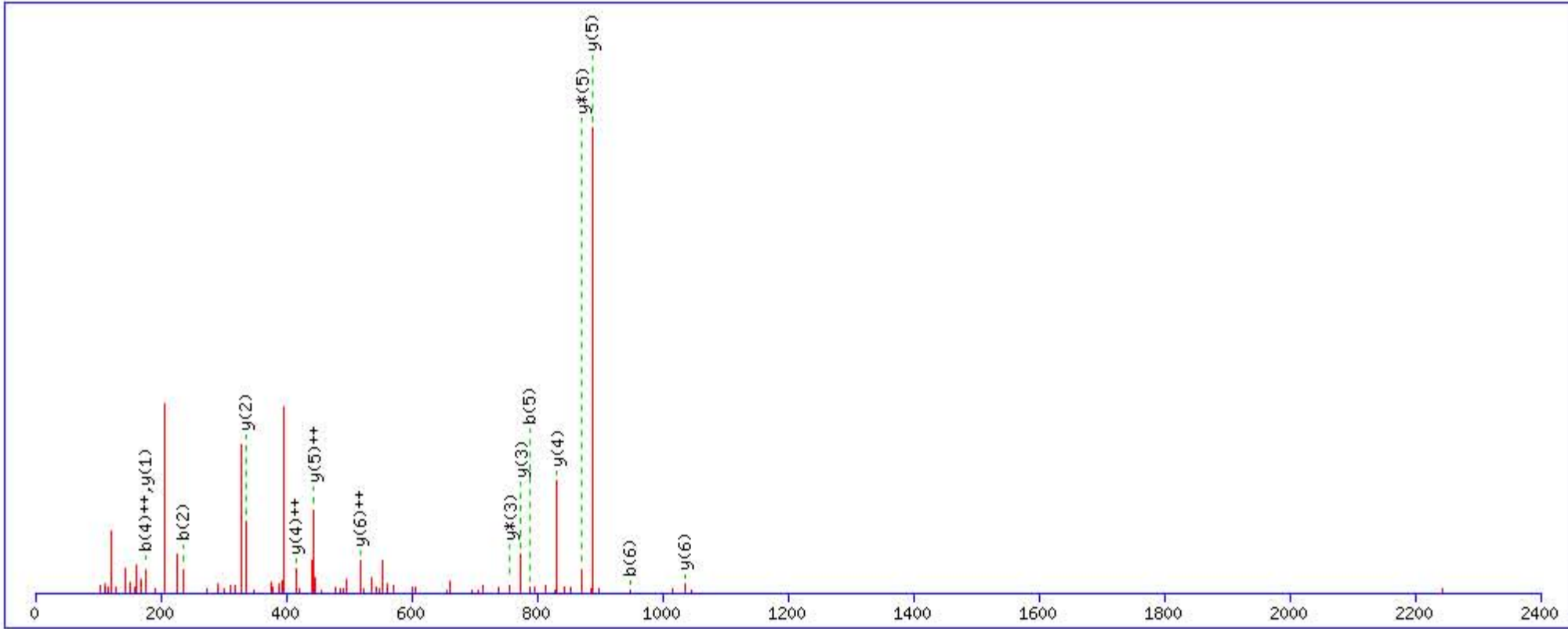
Title: Locus:1.1.1.3072.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1121.511032

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

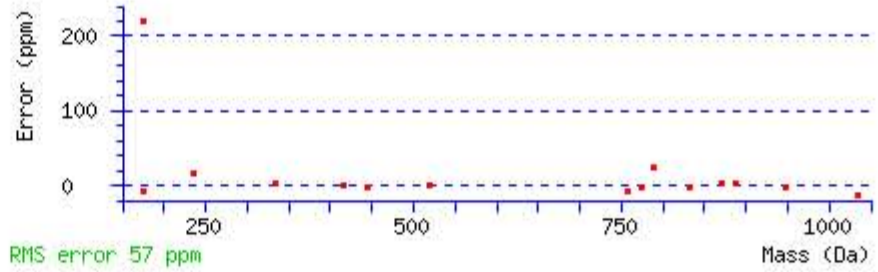
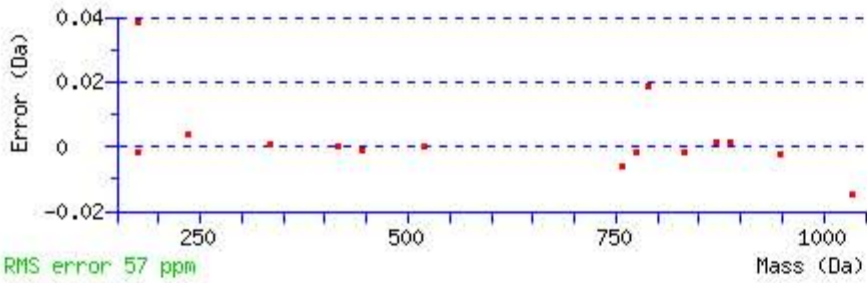
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 25 Expect: 0.0071

Matches : 15/52 fragment ions using 36 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S					7
2	<b>235.107718</b>	118.057497			217.097153	109.052214	F	<b>1035.486269</b>	<b>518.246773</b>	1018.459720	509.733498	6
3	292.129182	146.568229			274.118617	137.562946	G	<b>888.417855</b>	<b>444.712566</b>	<b>871.391306</b>	436.199291	5
4	349.150646	<b>175.078961</b>			331.140081	166.073678	G	<b>831.396391</b>	<b>416.201834</b>	814.369842	407.688559	4
5	<b>788.375972</b>	394.691624	771.349423	386.178350	770.365407	385.686342	Q	<b>774.374927</b>	387.691102	<b>757.348378</b>	379.177827	3
6	<b>948.406621</b>	474.706949	931.380072	466.193674	930.396056	465.701666	C	<b>335.149601</b>	168.078438	318.123052	159.565164	2
7							R	<b>175.118952</b>	88.063114	158.092403	79.549839	1



NCBI BLAST search of **SFGGQCR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
25.0	1121.511032	-0.002044	<a href="#">SFGGQCR</a>
2.1	1121.502274	0.006714	<a href="#">MSVEEQIDR</a>
2.0	1121.494873	0.014115	<a href="#">SANTSPSSSR</a>
1.1	1121.500259	0.008729	<a href="#">HPGFHQEDR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **CFSGQCISK**

Found in **CO7\_HUMAN**, Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

Match to Query 23527: 1396.630768 from(699.322660,2+) rtinseconds(1705) index(3239)

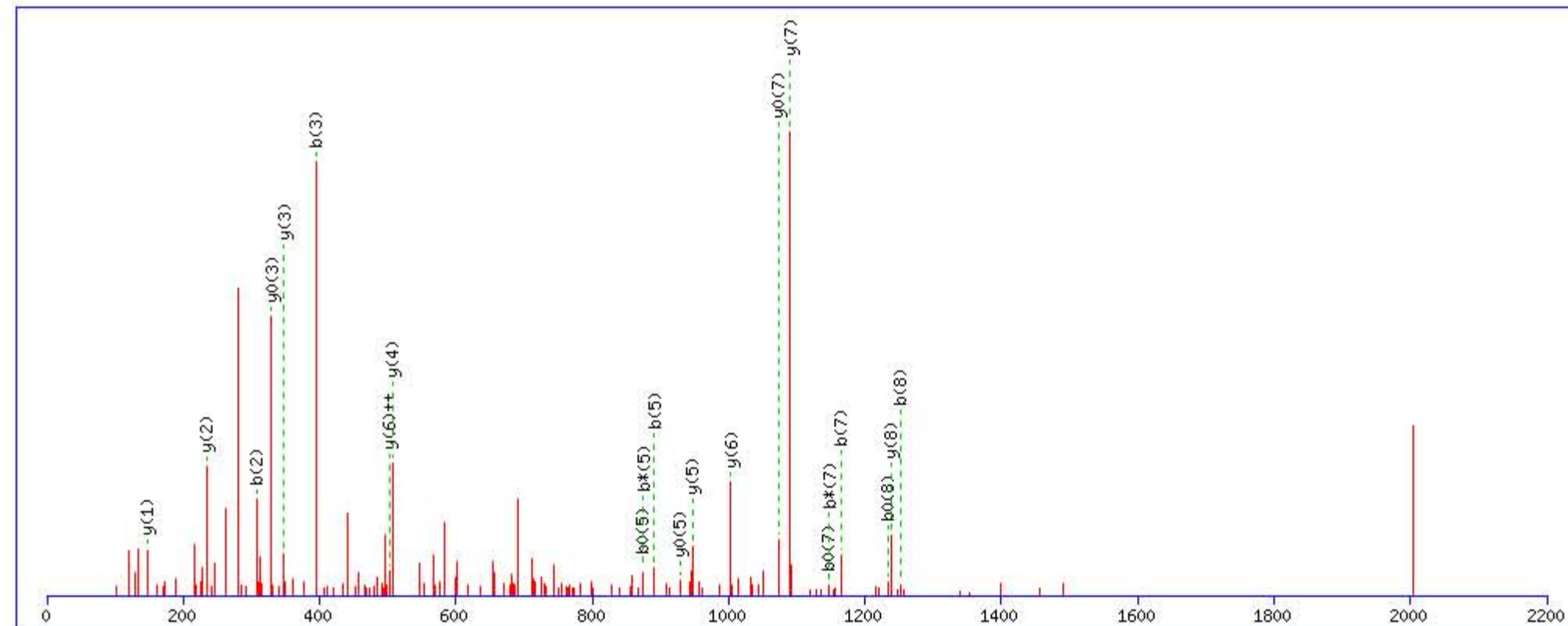
Title: Locus:1.1.1.3113.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1396.630157

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

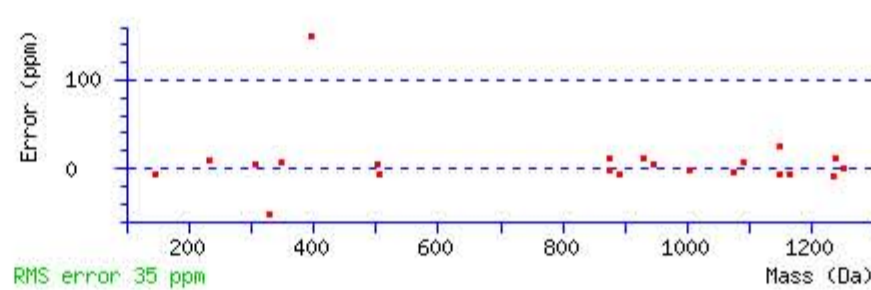
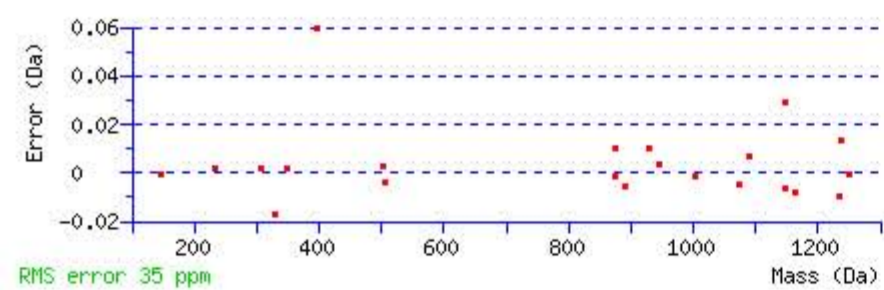
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 40 Expect: 0.00096

Matches : 22/82 fragment ions using 50 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	161.037925	81.022600					C							9
2	<b>308.106339</b>	154.556807					F	<b>1237.606777</b>	619.307027	1220.580228	610.793752	1219.596212	610.301744	8
3	<b>395.138367</b>	198.072821			377.127802	189.067539	S	<b>1090.538363</b>	545.772819	1073.511814	537.259545	<b>1072.527798</b>	536.767537	7
4	452.159831	226.583553			434.149266	217.578271	G	<b>1003.506335</b>	<b>502.256806</b>	986.479786	493.743531	985.495770	493.251523	6
5	<b>891.385157</b>	446.196217	<b>874.358608</b>	437.682942	<b>873.374592</b>	437.190934	Q	<b>946.484871</b>	473.746074	929.458322	465.232799	<b>928.474306</b>	464.740791	5
6	1051.415806	526.211541	1034.389257	517.698267	1033.405241	517.206258	C	<b>507.259545</b>	254.133410	490.232996	245.620136	489.248980	245.128128	4
7	<b>1164.499870</b>	582.753573	<b>1147.473321</b>	574.240298	<b>1146.489305</b>	573.748290	I	<b>347.228896</b>	174.118086	330.202347	165.604811	<b>329.218331</b>	165.112803	3
8	<b>1251.531898</b>	626.269587	1234.505349	617.756313	<b>1233.521333</b>	617.264304	S	<b>234.144832</b>	117.576054	217.118283	109.062780	216.134267	108.570772	2
9							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **CFSGQCISK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
39.6	1396.630157	0.000611	<a href="#">CFSGQCISK</a>
23.7	1396.629272	0.001496	<a href="#">QLSQAEATDFCK</a>

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



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AASGTQNNVLR**

Found in **CO7\_HUMAN**, Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

Match to Query 25637: 1440.747522 from(481.256450,3+) rtinseconds(1644) index(2889)

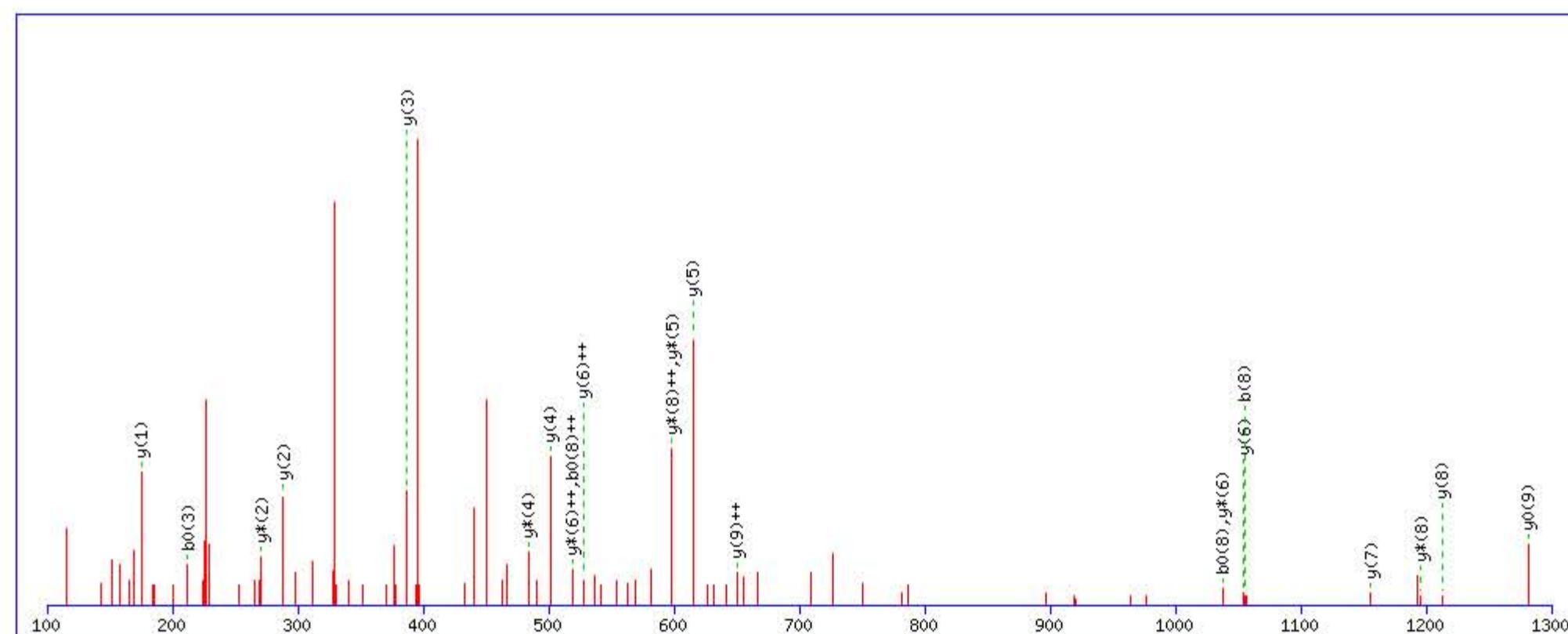
Title: Locus:1.1.1.3092.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1440.750717

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

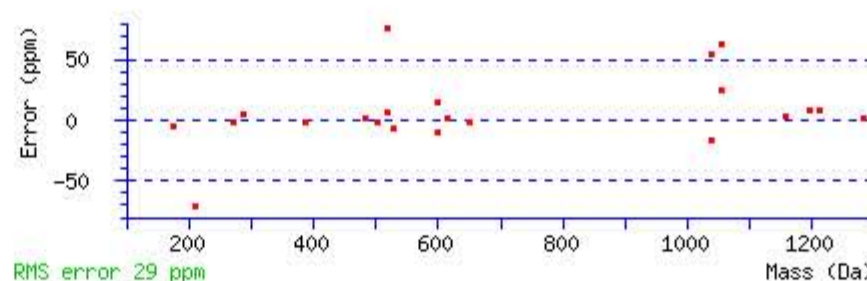
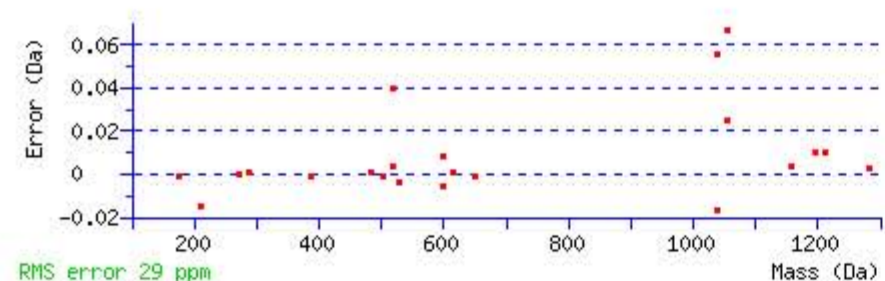
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.002

Matches : 22/94 fragment ions using 48 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							11
2	143.081504	72.044390					A	1370.720895	685.864086	1353.694346	677.350811	1352.710330	676.858803	10
3	230.113532	115.560404			212.102967	106.555121	S	1299.683781	650.345529	1282.657232	641.832254	1281.673216	641.340246	9
4	287.134996	144.071136			269.124431	135.065854	G	1212.651753	606.829515	1195.625204	598.316240	1194.641188	597.824232	8
5	388.182675	194.594976			370.172110	185.589693	T	1155.630289	578.318783	1138.603740	569.805508	1137.619724	569.313500	7
6	827.408001	414.207639	810.381452	405.694364	809.397436	405.202356	Q	1054.582610	527.794943	1037.556061	519.281669			6
7	941.450928	471.229102	924.424379	462.715828	923.440363	462.223820	N	615.357284	308.182280	598.330735	299.669006			5
8	1055.493855	528.250566	1038.467306	519.737291	1037.483290	519.245283	N	501.314357	251.160816	484.287808	242.647542			4
9	1154.562269	577.784773	1137.535720	569.271498	1136.551704	568.779490	V	387.271430	194.139353	370.244881	185.626078			3
10	1267.646333	634.326805	1250.619784	625.813530	1249.635768	625.321522	L	288.203016	144.605146	271.176467	136.091871			2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **AASGTQNNVLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
31.6	1440.750717	-0.003195	<a href="#">AASGTQNNVLR</a>
2.7	1440.750717	-0.003195	<a href="#">LDQLDASRGR</a>
2.0	1440.754745	-0.007223	<a href="#">WEATQQVLR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **WLVGEMHCQK**

Found in **CO7\_HUMAN**, Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

Match to Query 30508: 1597.751052 from(533.590960,3+) rtinseconds(1901) index(18330)

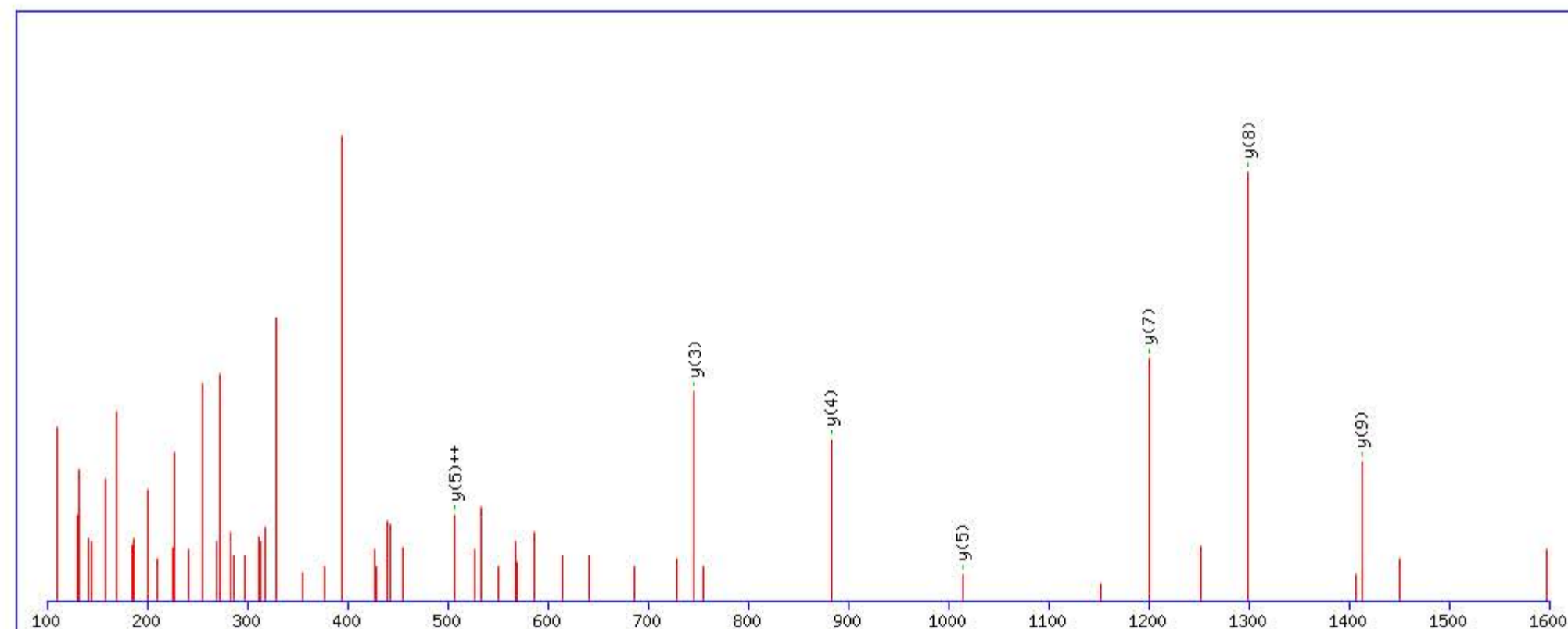
Title: Locus:1.1.1.3228.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1597.756744

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

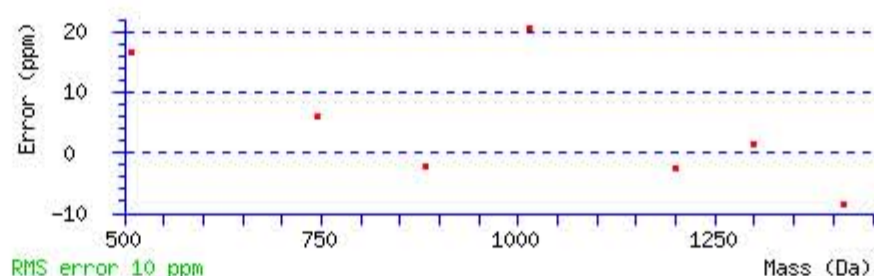
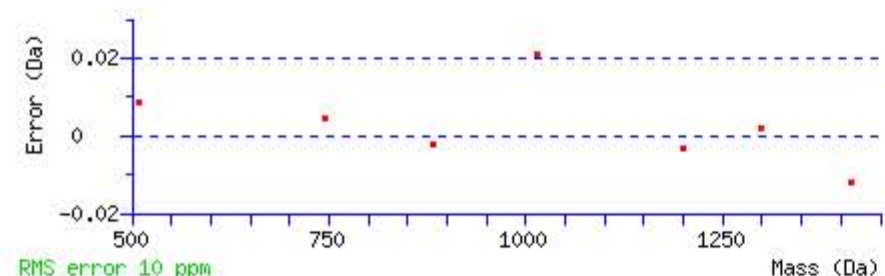
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.0076

Matches : 7/74 fragment ions using 13 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	187.086589	94.046932					W							10
2	300.170653	150.588965					L	1412.684711	706.845994	1395.658162	698.332719	1394.674146	697.840711	9
3	399.239067	200.123172					V	1299.600647	650.303962	1282.574098	641.790687	1281.590082	641.298679	8
4	456.260531	228.633904					G	1200.532233	600.769755	1183.505684	592.256480	1182.521668	591.764472	7
5	585.303124	293.155200			567.292559	284.149918	E	1143.510769	572.259023	1126.484220	563.745748	1125.500204	563.253740	6
6	716.343609	358.675443			698.333044	349.670160	M	1014.468176	507.737726	997.441627	499.224452			5
7	853.402521	427.204899			835.391956	418.199616	H	883.427691	442.217484	866.401142	433.704209			4
8	1013.433170	507.220223			995.422605	498.214941	C	746.368779	373.688028	729.342230	365.174753			3
9	1452.658496	726.832886	1435.631947	718.319612	1434.647931	717.827604	Q	586.338130	293.672703	569.311581	285.159429			2
10							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [WLVGEMHCQK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
33.0	1597.756744	-0.005692	<a href="#">WLVGEMHCQK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **LSGNVLSYTFQVK**

Found in **CO7\_HUMAN**, Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

Match to Query 34973: 1765.964068 from(883.989310,2+) rtinseconds(2523) index(7677)

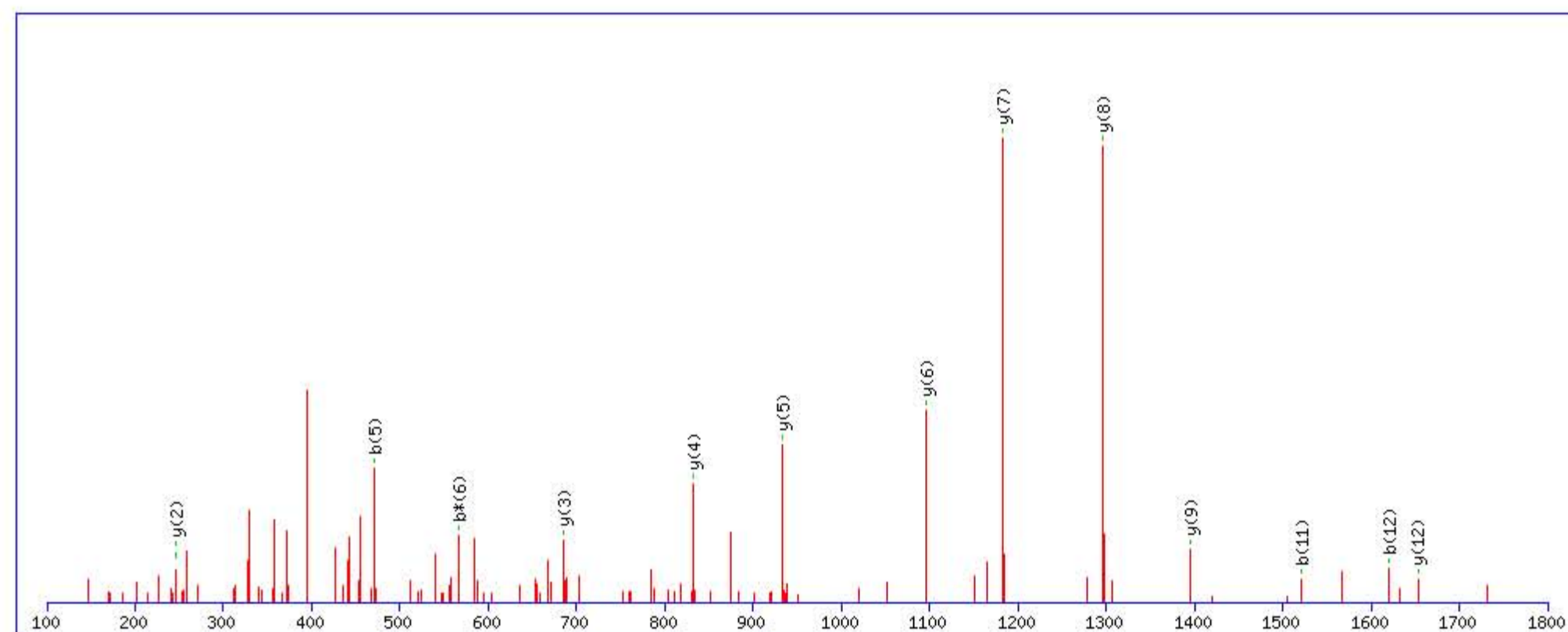
Title: Locus:1.1.1.3398.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1765.943680

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

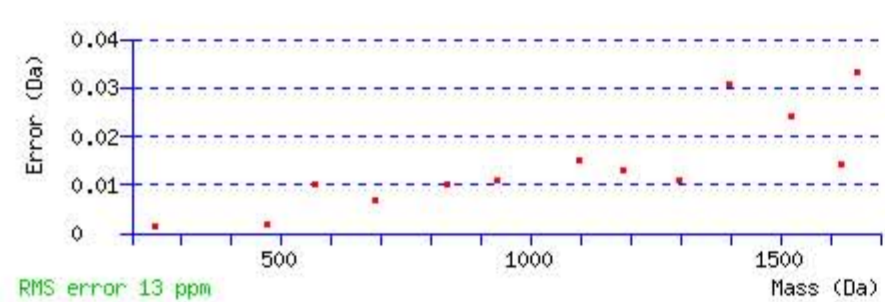
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

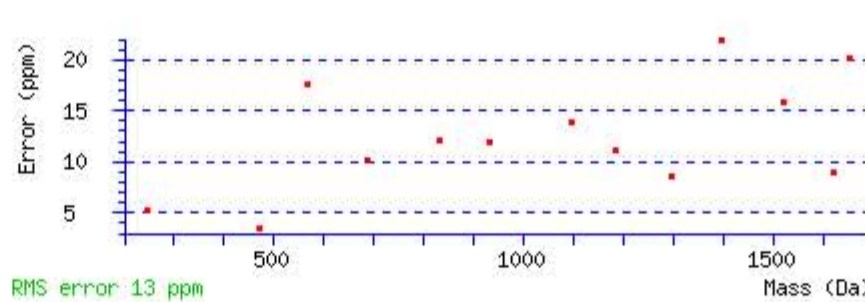
Ions Score: 79 Expect: 2.7e-007

Matches : 13/128 fragment ions using 16 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							13
2	201.123368	101.065322			183.112803	92.060039	S	<b>1653.866891</b>	827.437084	1636.840342	818.923809	1635.856326	818.431801	12
3	258.144832	129.576054			240.134267	120.570771	G	1566.834863	783.921070	1549.808314	775.407795	1548.824298	774.915787	11
4	372.187759	186.597517	355.161210	178.084243	354.177194	177.592235	N	1509.813399	755.410338	1492.786850	746.897063	1491.802834	746.405055	10
5	<b>471.256173</b>	236.131724	454.229624	227.618450	453.245608	227.126442	V	<b>1395.770472</b>	698.388874	1378.743923	689.875600	1377.759907	689.383592	9
6	584.340237	292.673757	<b>567.313688</b>	284.160482	566.329672	283.668474	L	<b>1296.702058</b>	648.854667	1279.675509	640.341393	1278.691493	639.849385	8
7	671.372265	336.189771	654.345716	327.676496	653.361700	327.184488	S	<b>1183.617994</b>	592.312635	1166.591445	583.799361	1165.607429	583.307353	7
8	834.435594	417.721435	817.409045	409.208161	816.425029	408.716153	Y	<b>1096.585966</b>	548.796621	1079.559417	540.283347	1078.575401	539.791339	6
9	935.483273	468.245275	918.456724	459.732000	917.472708	459.239992	T	<b>933.522637</b>	467.264957	916.496088	458.751682	915.512072	458.259674	5
10	1082.551687	541.779482	1065.525138	533.266207	1064.541122	532.774199	F	<b>832.474958</b>	416.741117	815.448409	408.227843			4
11	<b>1521.777013</b>	761.392145	1504.750464	752.878870	1503.766448	752.386862	Q	<b>685.406544</b>	343.206910	668.379995	334.693636			3
12	<b>1620.845427</b>	810.926352	1603.818878	802.413077	1602.834862	801.921069	V	<b>246.181218</b>	123.594247	229.154669	115.080973			2
13							K	147.112804	74.060040	130.086255	65.546765			1



RMS error 13 ppm



RMS error 13 ppm

NCBI BLAST search of [LSGNVLSYTFQVK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
78.7	1765.943680	0.020388	<a href="#">LSGNVLSYTFQVK</a>
8.3	1765.982544	-0.018476	<a href="#">SLQLDIIPASIPGSEVK</a>
5.8	1765.950882	0.013186	<a href="#">VTGNVSKKTNLYVMGR</a>
5.0	1765.973328	-0.009260	<a href="#">GKRPSQGCPSKIARPK</a>
2.3	1765.987244	-0.023176	<a href="#">GNVDVALNMLRNILPK</a>
1.7	1765.964767	-0.000699	<a href="#">IKEVEEKQPEVK</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **EQTMSECEAGALR**

Found in **CO7\_HUMAN**, Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

Match to Query 35550: 1791.807768 from(896.911160,2+) rtinseconds(1814) index(3825)

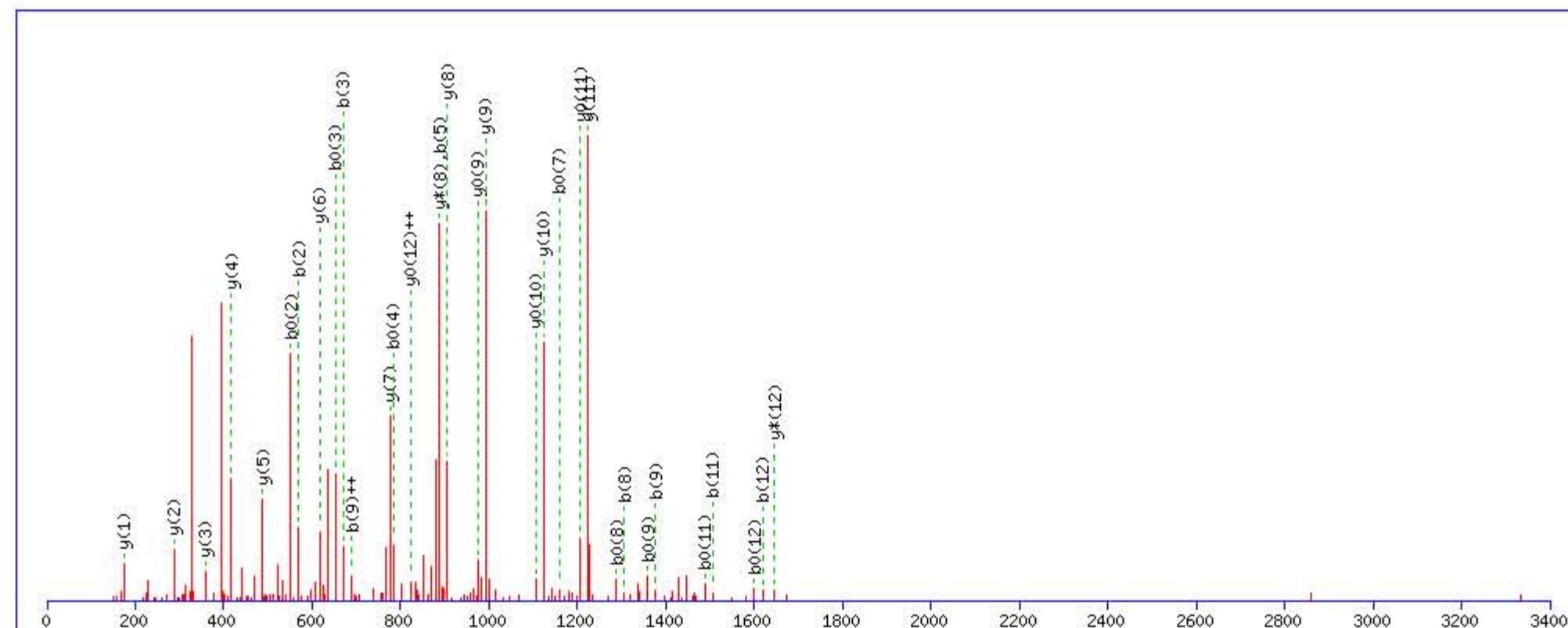
Title: Locus:1.1.1.3151.19 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1791.795349

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

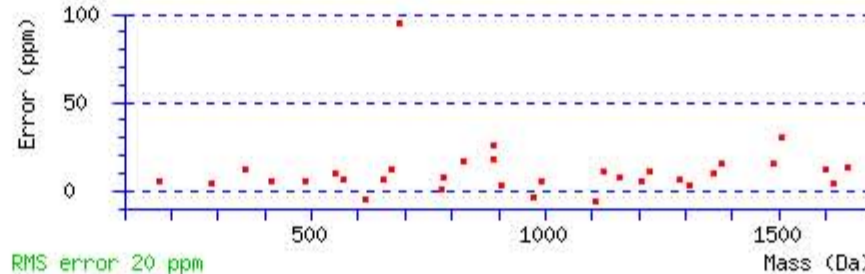
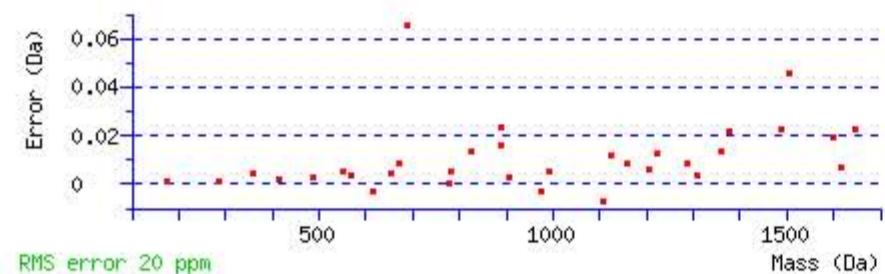
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 64 Expect: 2.3e-006

Matches : 33/132 fragment ions using 61 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							13
2	<b>569.275195</b>	285.141236	552.248646	276.627961	<b>551.264630</b>	276.135953	Q	1663.760061	832.383668	<b>1646.733512</b>	823.870394	1645.749496	<b>823.378386</b>	12
3	<b>670.322874</b>	335.665075	653.296325	327.151801	<b>652.312309</b>	326.659793	T	<b>1224.534735</b>	612.771005	1207.508186	604.257731	<b>1206.524170</b>	603.765723	11
4	801.363359	401.185318	784.336810	392.672043	<b>783.352794</b>	392.180035	M	<b>1123.487056</b>	562.247166	1106.460507	553.733891	<b>1105.476491</b>	553.241883	10
5	<b>888.395387</b>	444.701332	871.368838	436.188057	870.384822	435.696049	S	<b>992.446571</b>	496.726923	975.420022	488.213649	<b>974.436006</b>	487.721641	9
6	1017.437980	509.222628	1000.411431	500.709354	999.427415	500.217346	E	<b>905.414543</b>	453.210909	<b>888.387994</b>	444.697635	887.403978	444.205627	8
7	1177.468629	589.237953	1160.442080	580.724678	<b>1159.458064</b>	580.232670	C	<b>776.371950</b>	388.689613	759.345401	380.176338	758.361385	379.684330	7
8	<b>1306.511222</b>	653.759249	1289.484673	645.245974	<b>1288.500657</b>	644.753966	E	<b>616.341301</b>	308.674288	599.314752	300.161014	598.330736	299.669006	6
9	<b>1377.548336</b>	<b>689.277806</b>	1360.521787	680.764531	<b>1359.537771</b>	680.272523	A	<b>487.298708</b>	244.152992	470.272159	235.639717			5
10	1434.569800	717.788538	1417.543251	709.275263	1416.559235	708.783255	G	<b>416.261594</b>	208.634435	399.235045	200.121160			4
11	<b>1505.606914</b>	753.307095	1488.580365	744.793820	<b>1487.596349</b>	744.301812	A	<b>359.240130</b>	180.123703	342.213581	171.610428			3
12	<b>1618.690978</b>	809.849127	1601.664429	801.335852	<b>1600.680413</b>	800.843844	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
13							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [EQTMSECEAGALR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
64.2	1791.795349	0.012419	<a href="#">EQTMSECEAGALR</a>
4.0	1791.821854	-0.014086	<a href="#">YNVSCIMIMPQHQ</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **YSAWAESVTNLPQVIK**

Found in **CO7\_HUMAN**, Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

Match to Query 41821: 2116.119372 from(706.380400,3+) rtinseconds(2643) index(8431)

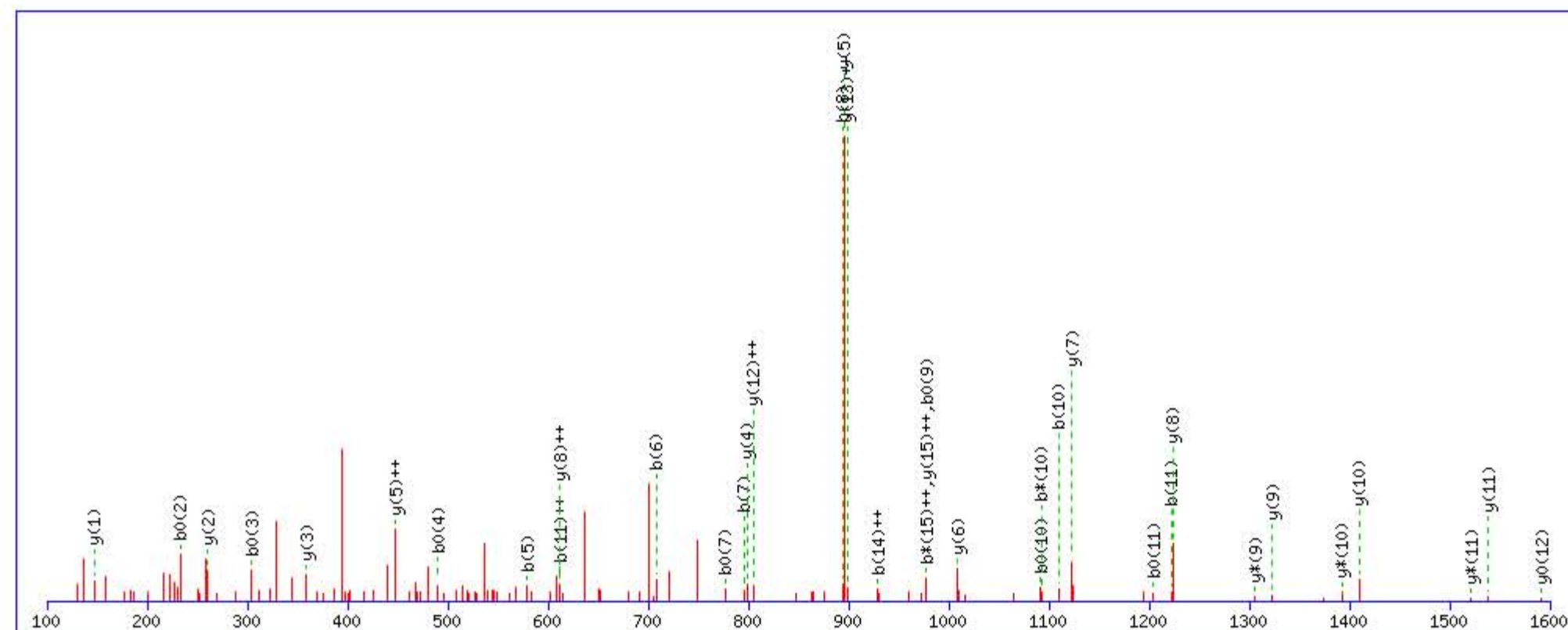
Title: Locus:1.1.1.3440.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2116.102676

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

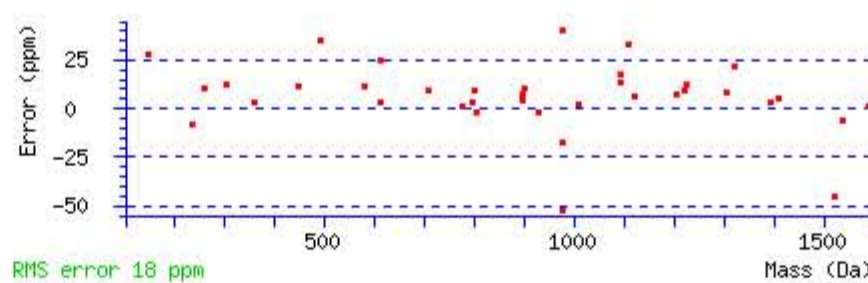
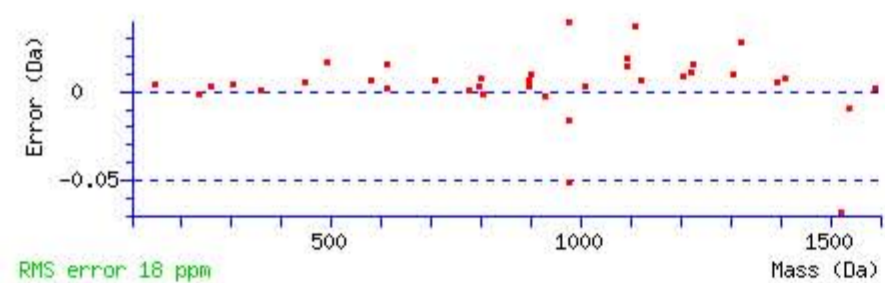
Variable modifications:

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 57 Expect: 4.8e-005

Matches : 37/146 fragment ions using 64 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							16
2	251.102633	126.054954			233.092068	117.049672	S	1954.046646	977.526961	1937.020097	969.013687	1936.036081	968.521679	15
3	322.139747	161.573512			304.129182	152.568229	A	1867.014618	934.010947	1849.988069	925.497673	1849.004053	925.005665	14
4	508.219060	254.613168			490.208495	245.607886	W	1795.977504	898.492390	1778.950955	889.979116	1777.966939	889.487108	13
5	579.256174	290.131725			561.245609	281.126443	A	1609.898191	805.452734	1592.871642	796.939459	1591.887626	796.447451	12
6	708.298767	354.653022			690.288202	345.647739	E	1538.861077	769.934177	1521.834528	761.420902	1520.850512	760.928894	11
7	795.330795	398.169036			777.320230	389.163753	S	1409.818484	705.412880	1392.791935	696.899606	1391.807919	696.407598	10
8	894.399209	447.703243			876.388644	438.697960	V	1322.786456	661.896866	1305.759907	653.383592	1304.775891	652.891584	9
9	995.446888	498.227082			977.436323	489.221800	T	1223.718042	612.362659	1206.691493	603.849385	1205.707477	603.357377	8
10	1109.489815	555.248546	1092.463266	546.735271	1091.479250	546.243263	N	1122.670363	561.838820	1105.643814	553.325545			7
11	1222.573879	611.790578	1205.547330	603.277303	1204.563314	602.785295	L	1008.627436	504.817356	991.600887	496.304082			6
12	1319.626643	660.316960	1302.600094	651.803685	1301.616078	651.311677	P	895.543372	448.275324	878.516823	439.762050			5
13	1758.851969	879.929623	1741.825420	871.416348	1740.841404	870.924340	Q	798.490608	399.748942	781.464059	391.235668			4
14	1857.920383	929.463830	1840.893834	920.950555	1839.909818	920.458547	V	359.265282	180.136279	342.238733	171.623004			3
15	1971.004447	986.005862	1953.977898	977.492587	1952.993882	977.000579	I	260.196868	130.602072	243.170319	122.088797			2
16							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **YSAWAESVTNLPQVIK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
57.3	2116.102676	0.016696	<a href="#">YSAWAESVTNLPQVIK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **MPYECGPSLDVCAQDER**

Found in **CO7\_HUMAN**, Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

Match to Query 45706: 2337.003942 from(780.008590,3+) rtinseconds(2175) index(5857)

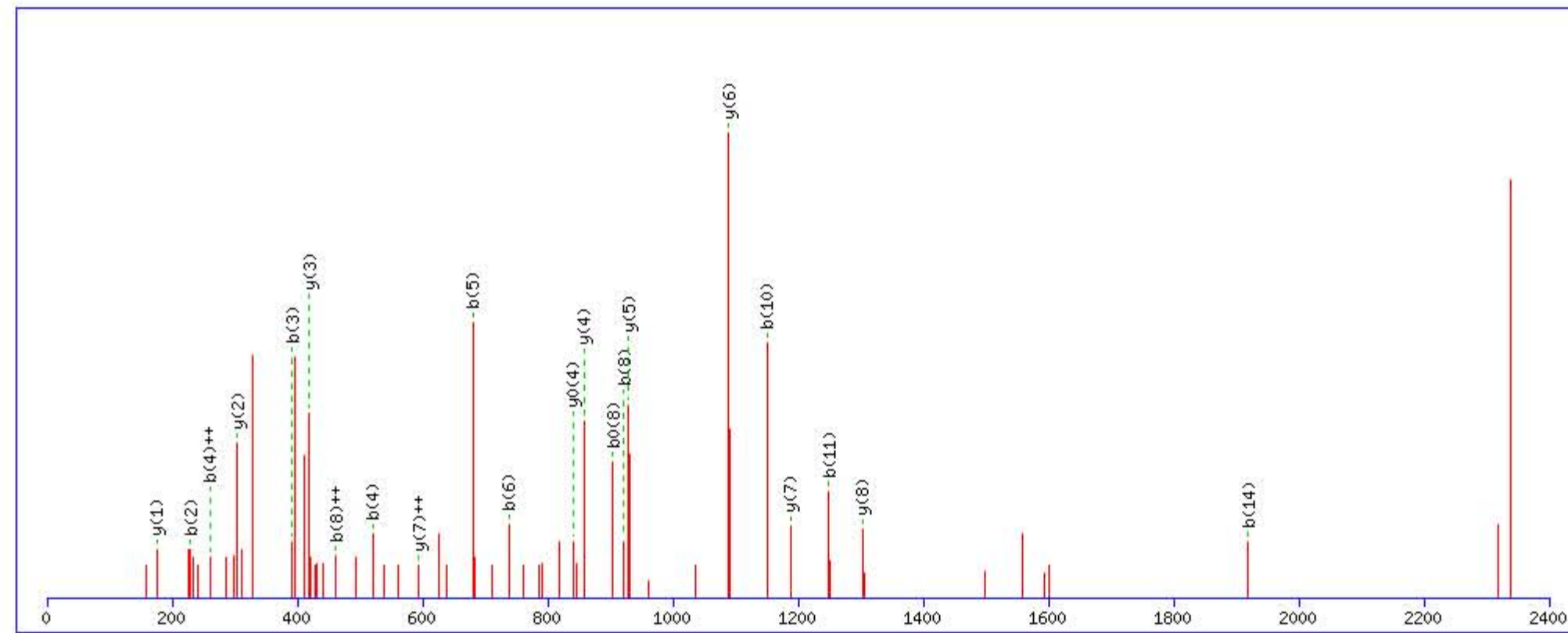
Title: Locus:1.1.1.3277.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2336.989792

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

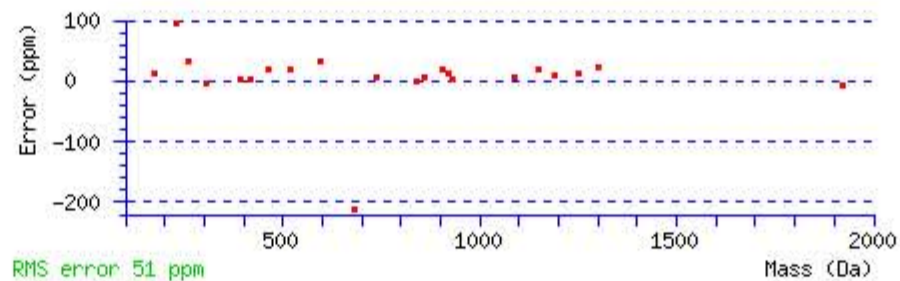
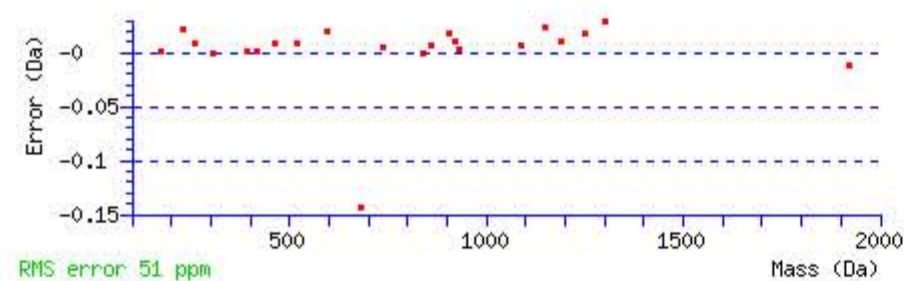
Variable modifications:

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 45 Expect: 0.00011

Matches : 22/158 fragment ions using 57 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							17
2	<b>229.100525</b>	115.053900					P	2206.956589	1103.981932	2189.930040	1095.468658	2188.946024	1094.976650	16
3	<b>392.163854</b>	196.585565					Y	2109.903825	1055.455550	2092.877276	1046.942276	2091.893260	1046.450268	15
4	<b>521.206447</b>	<b>261.106862</b>			503.195882	252.101579	E	1946.840496	973.923886	1929.813947	965.410612	1928.829931	964.918604	14
5	<b>681.237096</b>	341.122186			663.226531	332.116904	C	1817.797903	909.402590	1800.771354	900.889315	1799.787338	900.397307	13
6	<b>738.258560</b>	369.632918			720.247995	360.627636	G	1657.767254	829.387265	1640.740705	820.873991	1639.756689	820.381983	12
7	835.311324	418.159300			817.300759	409.154018	P	1600.745790	800.876533	1583.719241	792.363259	1582.735225	791.871251	11
8	<b>922.343352</b>	<b>461.675314</b>			<b>904.332787</b>	452.670032	S	1503.693026	752.350151	1486.666477	743.836877	1485.682461	743.344869	10
9	1035.427416	518.217346			1017.416851	509.212064	L	1416.660998	708.834137	1399.634449	700.320863	1398.650433	699.828855	9
10	<b>1150.454359</b>	575.730818			1132.443794	566.725535	D	<b>1303.576934</b>	652.292105	1286.550385	643.778831	1285.566369	643.286823	8
11	<b>1249.522773</b>	625.265025			1231.512208	616.259742	V	<b>1188.549991</b>	<b>594.778634</b>	1171.523442	586.265359	1170.539426	585.773351	7
12	1409.553422	705.280349			1391.542857	696.275067	C	<b>1089.481577</b>	545.244427	1072.455028	536.731152	1071.471012	536.239144	6
13	1480.590536	740.798906			1462.579971	731.793624	A	<b>929.450928</b>	465.229102	912.424379	456.715827	911.440363	456.223819	5
14	<b>1919.815862</b>	960.411569	1902.789313	951.898295	1901.805297	951.406287	Q	<b>858.413814</b>	429.710545	841.387265	421.197271	<b>840.403249</b>	420.705263	4
15	2034.842805	1017.925041	2017.816256	1009.411766	2016.832240	1008.919758	D	<b>419.188488</b>	210.097882	402.161939	201.584607	401.177923	201.092599	3
16	2163.885398	1082.446337	2146.858849	1073.933062	2145.874833	1073.441054	E	<b>304.161545</b>	152.584410	287.134996	144.071136	286.150980	143.579128	2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [MPYECGPSLDVCAQDER](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
45.2	2336.989792	0.014150	<a href="#">MPYECGPSLDVCAQDER</a>

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

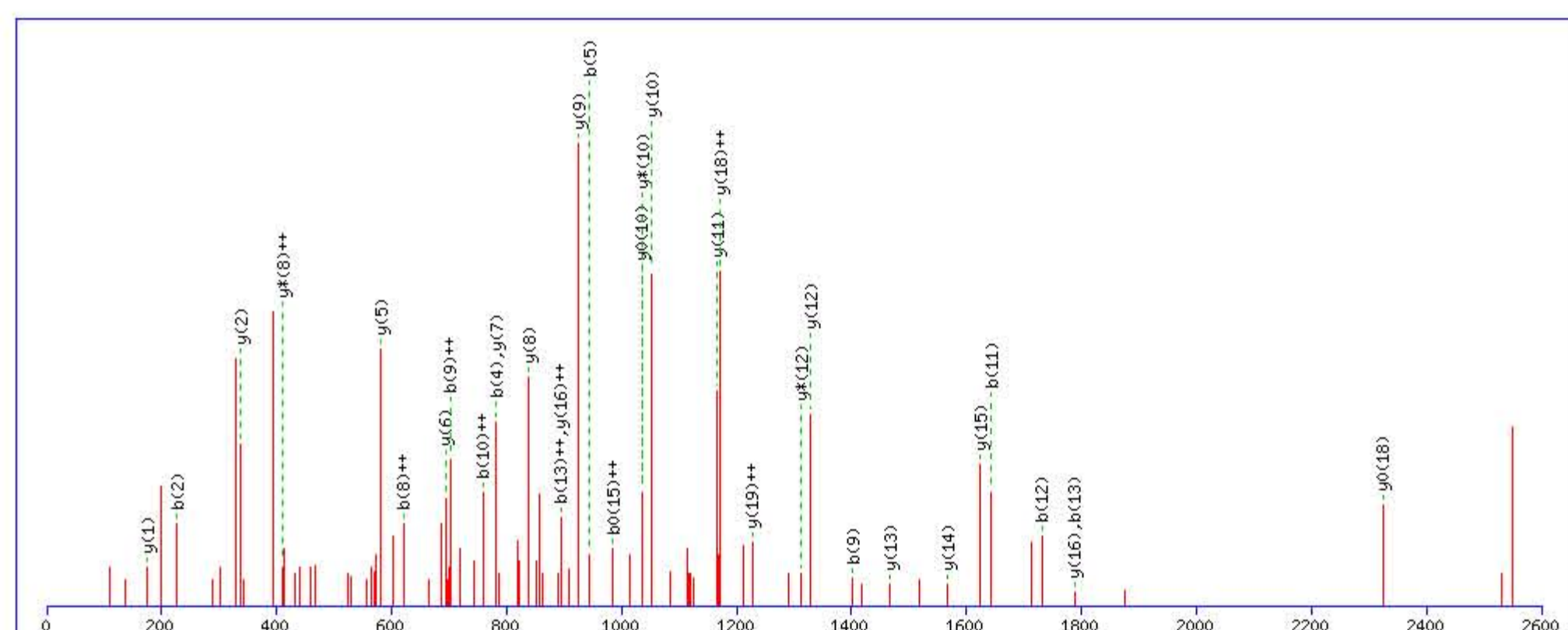
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LIDQYGTHYLQSGSLGGEYR**  
 Found in **CO7\_HUMAN**, Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

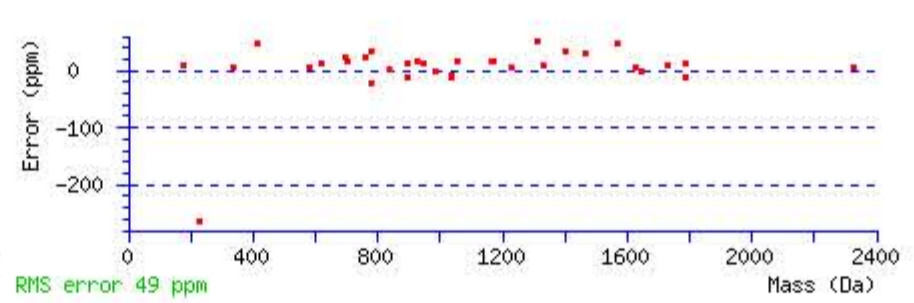
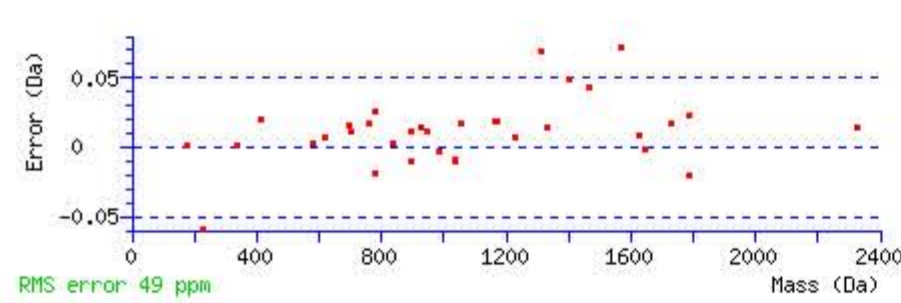
Match to Query 49158: 2567.271522 from(856.764450,3+) rtinseconds(2187) index(5917)  
 Title: Locus:1.1.1.3281.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2567.247849  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q4 : Biotin:Thermo-21345 (Q)  
 Ions Score: 92 Expect: 4.9e-009  
 Matches : 34/214 fragment ions using 52 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							20
2	<b>227.175404</b>	114.091340					I	2455.171074	<b>1228.089175</b>	2438.144525	1219.575900	2437.160509	1219.083892	19
3	342.202347	171.604811			324.191782	162.599529	D	2342.087010	<b>1171.547143</b>	2325.060461	1163.033868	<b>2324.076445</b>	1162.541860	18
4	<b>781.427673</b>	391.217475	764.401124	382.704200	763.417108	382.212192	Q	2227.060067	1114.033671	2210.033518	1105.520397	2209.049502	1105.028389	17
5	<b>944.491002</b>	472.749139	927.464453	464.235864	926.480437	463.743856	Y	<b>1787.834741</b>	<b>894.421009</b>	1770.808192	885.907734	1769.824176	885.415726	16
6	1001.512466	501.259871	984.485917	492.746597	983.501901	492.254589	G	<b>1624.771412</b>	812.889344	1607.744863	804.376070	1606.760847	803.884062	15
7	1102.560145	551.783710	1085.533596	543.270436	1084.549580	542.778428	T	<b>1567.749948</b>	784.378612	1550.723399	775.865338	1549.739383	775.373330	14
8	1239.619057	<b>620.313166</b>	1222.592508	611.799892	1221.608492	611.307884	H	<b>1466.702269</b>	733.854773	1449.675720	725.341498	1448.691704	724.849490	13
9	<b>1402.682386</b>	<b>701.844831</b>	1385.655837	693.331557	1384.671821	692.839548	Y	<b>1329.643357</b>	665.325317	<b>1312.616808</b>	656.812042	1311.632792	656.320034	12
10	1515.766450	<b>758.386863</b>	1498.739901	749.873588	1497.755885	749.381580	L	<b>1166.580028</b>	583.793652	1149.553479	575.280378	1148.569463	574.788370	11
11	<b>1643.825028</b>	822.416152	1626.798479	813.902878	1625.814463	813.410869	Q	<b>1053.495964</b>	527.251620	<b>1036.469415</b>	518.738346	<b>1035.485399</b>	518.246338	10
12	<b>1730.857056</b>	865.932166	1713.830507	857.418892	1712.846491	856.926884	S	<b>925.437386</b>	463.222331	908.410837	454.709057	907.426821	454.217049	9
13	<b>1787.878520</b>	<b>894.442898</b>	1770.851971	885.929624	1769.867955	885.437615	G	<b>838.405358</b>	419.706317	821.378809	<b>411.193043</b>	820.394793	410.701035	8
14	1874.910548	937.958912	1857.883999	929.445638	1856.899983	928.953630	S	<b>781.383894</b>	391.195585	764.357345	382.682311	763.373329	382.190303	7
15	1987.994612	994.500944	1970.968063	985.987670	1969.984047	<b>985.495661</b>	L	<b>694.351866</b>	347.679571	677.325317	339.166297	676.341301	338.674289	6
16	2045.016076	1023.011676	2027.989527	1014.498402	2027.005511	1014.006393	G	<b>581.267802</b>	291.137539	564.241253	282.624265	563.257237	282.132257	5
17	2102.037540	1051.522408	2085.010991	1043.009133	2084.026975	1042.517125	G	524.246338	262.626807	507.219789	254.113533	506.235773	253.621525	4
18	2231.080133	1116.043704	2214.053584	1107.530430	2213.069568	1107.038422	E	467.224874	234.116075	450.198325	225.602801	449.214309	225.110793	3
19	2394.143462	1197.575369	2377.116913	1189.062094	2376.132897	1188.570086	Y	<b>338.182281</b>	169.594778	321.155732	161.081504			2
20							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LIDQYGTHYLQSGSLGGEYR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
91.8	2567.247849	0.023673	<a href="#">LIDQYGTHYLQSGSLGGEYR</a>
14.8	2567.247849	0.023673	<a href="#">LIDQYGTHYLQSGSLGGEYR</a>
3.2	2567.294800	-0.023278	<a href="#">LLSDGQQHLTESLREKCSR</a>

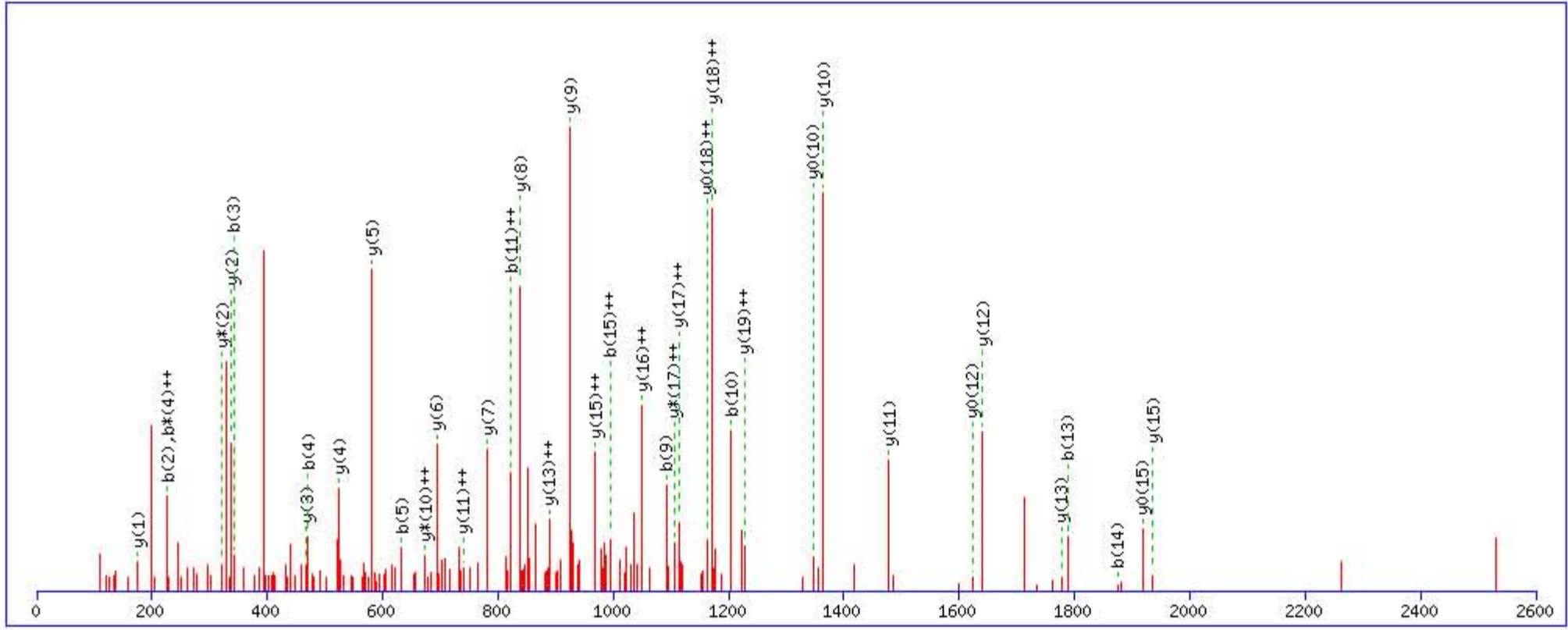
**MASCOT** Mascot Search Results

**Peptide View**

MS/MS Fragmentation of **LIDQYGTHYLQSGSLGGEYR**  
 Found in **CO7\_HUMAN**, Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

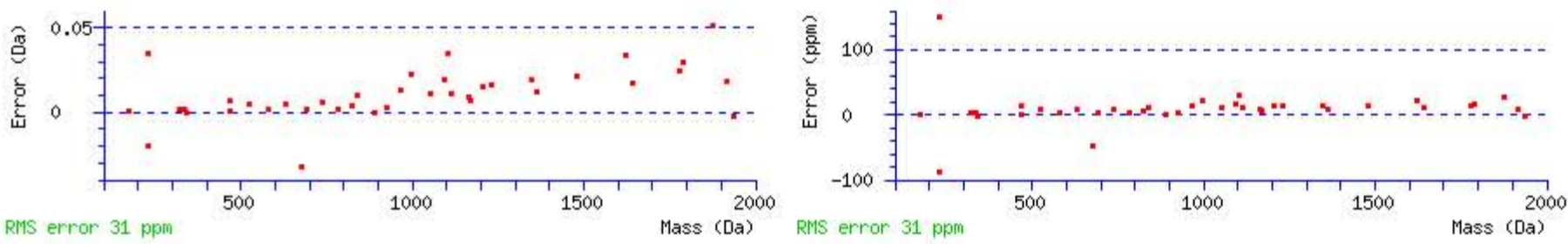
Match to Query 49160: 2567.278482 from(856.766770,3+) rtinseconds(2167) index(5807)  
 Title: Locus:1.1.1.3274.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2567.247849  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q11 : Biotin:Thermo-21345 (Q)  
 Ions Score: 70 Expect: 3.1e-006  
 Matches : 39/214 fragment ions using 80 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							20
2	227.175404	114.091340					I	2455.171074	1228.089175	2438.144525	1219.575900	2437.160509	1219.083892	19
3	342.202347	171.604811			324.191782	162.599529	D	2342.087010	1171.547143	2325.060461	1163.033868	2324.076445	1162.541860	18
4	470.260925	235.634100	453.234376	227.120826	452.250360	226.628818	Q	2227.060067	1114.033671	2210.033518	1105.520397	2209.049502	1105.028389	17
5	633.324254	317.165765	616.297705	308.652491	615.313689	308.160483	Y	2099.001489	1050.004382	2081.974940	1041.491108	2080.990924	1040.999100	16
6	690.345718	345.676497	673.319169	337.163223	672.335153	336.671215	G	1935.938160	968.472718	1918.911611	959.959444	1917.927595	959.467436	15
7	791.393397	396.200337	774.366848	387.687062	773.382832	387.195054	T	1878.916696	939.961986	1861.890147	931.448712	1860.906131	930.956704	14
8	928.452309	464.729793	911.425760	456.216518	910.441744	455.724510	H	1777.869017	889.438147	1760.842468	880.924872	1759.858452	880.432864	13
9	1091.515638	546.261457	1074.489089	537.748183	1073.505073	537.256175	Y	1640.810105	820.908691	1623.783556	812.395416	1622.799540	811.903408	12
10	1204.599702	602.803489	1187.573153	594.290215	1186.589137	593.798206	L	1477.746776	739.377026	1460.720227	730.863752	1459.736211	730.371744	11
11	1643.825028	822.416152	1626.798479	813.902878	1625.814463	813.410869	Q	1364.662712	682.834994	1347.636163	674.321720	1346.652147	673.829712	10
12	1730.857056	865.932166	1713.830507	857.418892	1712.846491	856.926884	S	925.437386	463.222331	908.410837	454.709057	907.426821	454.217049	9
13	1787.878520	894.442898	1770.851971	885.929624	1769.867955	885.437615	G	838.405358	419.706317	821.378809	411.193043	820.394793	410.701035	8
14	1874.910548	937.958912	1857.883999	929.445638	1856.899983	928.953630	S	781.383894	391.195585	764.357345	382.682311	763.373329	382.190303	7
15	1987.994612	994.500944	1970.968063	985.987670	1969.984047	985.495661	L	694.351866	347.679571	677.325317	339.166297	676.341301	338.674289	6
16	2045.016076	1023.011676	2027.989527	1014.498402	2027.005511	1014.006393	G	581.267802	291.137539	564.241253	282.624265	563.257237	282.132257	5
17	2102.037540	1051.522408	2085.010991	1043.009133	2084.026975	1042.517125	G	524.246338	262.626807	507.219789	254.113533	506.235773	253.621525	4
18	2231.080133	1116.043704	2214.053584	1107.530430	2213.069568	1107.038422	E	467.224874	234.116075	450.198325	225.602801	449.214309	225.110793	3
19	2394.143462	1197.575369	2377.116913	1189.062094	2376.132897	1188.570086	Y	338.182281	169.594778	321.155732	161.081504			2
20							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LIDQYGTHYLQSGSLGGEYR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
69.6	2567.247849	0.030633	<a href="#">LIDQYGTHYLQSGSLGGEYR</a>
27.5	2567.247849	0.030633	<a href="#">LIDQYGTHYLQSGSLGGEYR</a>



# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **SCVGETTESTQCEDEELEHLR**

Found in **CO7\_HUMAN**, Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

Match to Query 51787: 2819.214376 from(705.810870,4+) rtinseconds(1963) index(4569)

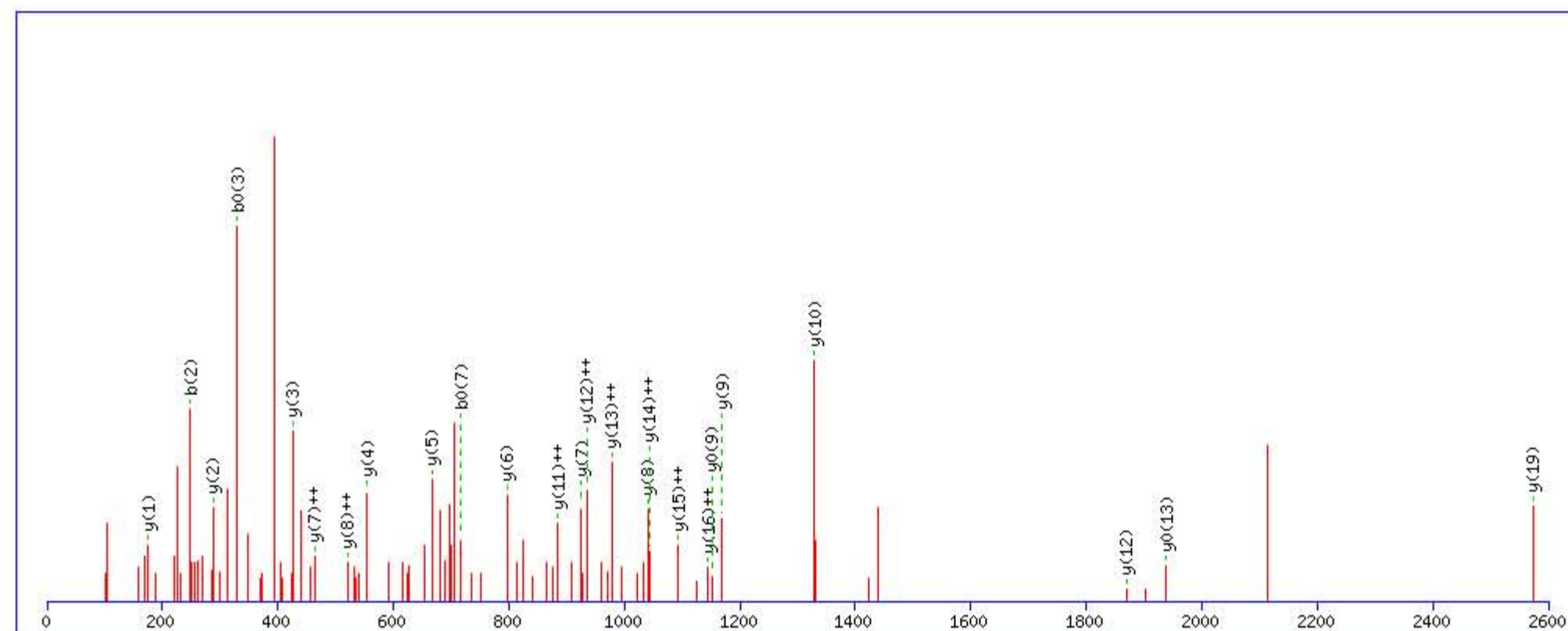
Title: Locus:1.1.1.3203.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2819.204803

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

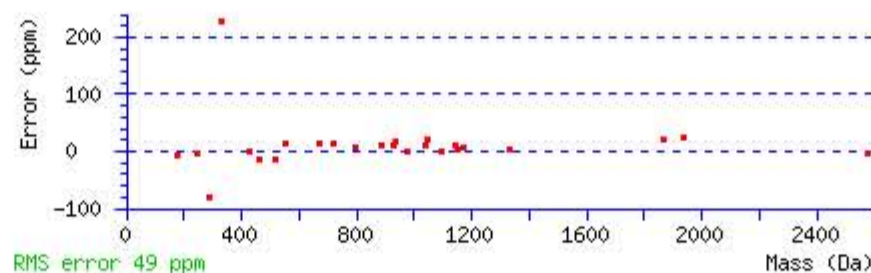
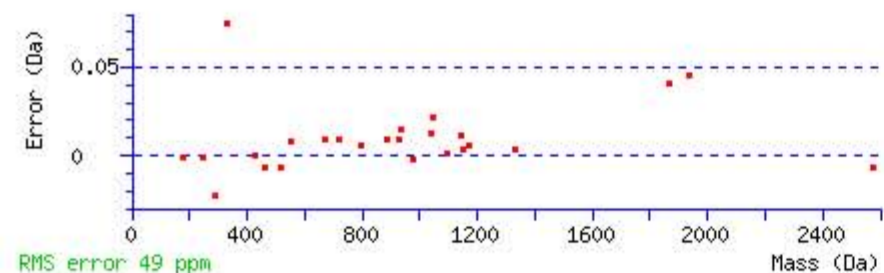
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 72 Expect: 2.2e-007

Matches : 25/214 fragment ions using 43 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							21
2	<b>248.069953</b>	124.538614			230.059388	115.533332	C	2733.180060	1367.093668	2716.153511	1358.580393	2715.169495	1358.088385	20
3	347.138367	174.072822			<b>329.127802</b>	165.067539	V	<b>2573.149411</b>	1287.078343	2556.122862	1278.565069	2555.138846	1278.073061	19
4	404.159831	202.583553			386.149266	193.578271	G	2474.080997	1237.544136	2457.054448	1229.030862	2456.070432	1228.538854	18
5	533.202424	267.104850			515.191859	258.099568	E	2417.059533	1209.033404	2400.032984	1200.520130	2399.048968	1200.028122	17
6	634.250103	317.628690			616.239538	308.623407	T	2288.016940	<b>1144.512108</b>	2270.990391	1135.998833	2270.006375	1135.506825	16
7	735.297782	368.152529			<b>717.287217</b>	359.147247	T	2186.969261	<b>1093.988268</b>	2169.942712	1085.474994	2168.958696	1084.982986	15
8	864.340375	432.673826			846.329810	423.668543	E	2085.921582	<b>1043.464429</b>	2068.895033	1034.951154	2067.911017	1034.459146	14
9	951.372403	476.189840			933.361838	467.184557	S	1956.878989	<b>978.943133</b>	1939.852440	970.429858	<b>1938.868424</b>	969.937850	13
10	1052.420082	526.713679			1034.409517	517.708397	T	<b>1869.846961</b>	<b>935.427119</b>	1852.820412	926.913844	1851.836396	926.421836	12
11	1491.645408	746.326342	1474.618859	737.813068	1473.634843	737.321060	Q	1768.799282	<b>884.903279</b>	1751.772733	876.390005	1750.788717	875.897997	11
12	1651.676057	826.341667	1634.649508	817.828392	1633.665492	817.336384	C	<b>1329.573956</b>	665.290616	1312.547407	656.777342	1311.563391	656.285334	10
13	1780.718650	890.862963	1763.692101	882.349689	1762.708085	881.857681	E	<b>1169.543307</b>	585.275292	1152.516758	576.762017	<b>1151.532742</b>	576.270009	9
14	1895.745593	948.376435	1878.719044	939.863160	1877.735028	939.371152	D	<b>1040.500714</b>	<b>520.753995</b>	1023.474165	512.240721	1022.490149	511.748713	8
15	2024.788186	1012.897731	2007.761637	1004.384457	2006.777621	1003.892449	E	<b>925.473771</b>	<b>463.240524</b>	908.447222	454.727249	907.463206	454.235241	7
16	2153.830779	1077.419027	2136.804230	1068.905753	2135.820214	1068.413745	E	<b>796.431178</b>	398.719227	779.404629	390.205953	778.420613	389.713945	6
17	2266.914843	1133.961059	2249.888294	1125.447785	2248.904278	1124.955777	L	<b>667.388585</b>	334.197931	650.362036	325.684656	649.378020	325.192648	5
18	2395.957436	1198.482356	2378.930887	1189.969081	2377.946871	1189.477074	E	<b>554.304521</b>	277.655899	537.277972	269.142624	536.293956	268.650616	4
19	2533.016348	1267.011812	2515.989799	1258.498537	2515.005783	1258.006529	H	<b>425.261928</b>	213.134602	408.235379	204.621328			3
20	2646.100412	1323.553844	2629.073863	1315.040569	2628.089847	1314.548562	L	<b>288.203016</b>	144.605146	271.176467	136.091872			2
21							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SCVGETTESTQCEDEELEHLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
72.2	2819.204803	0.009573	<a href="#">SCVGETTESTQCEDEELEHLR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **IACVLPVLM DGIQSH P QKPFYT VGEK**

Found in **CO7\_HUMAN**, Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

Match to Query 56896: 3237.709936 from(810.434760,4+) rtinseconds(2522) index(7675)

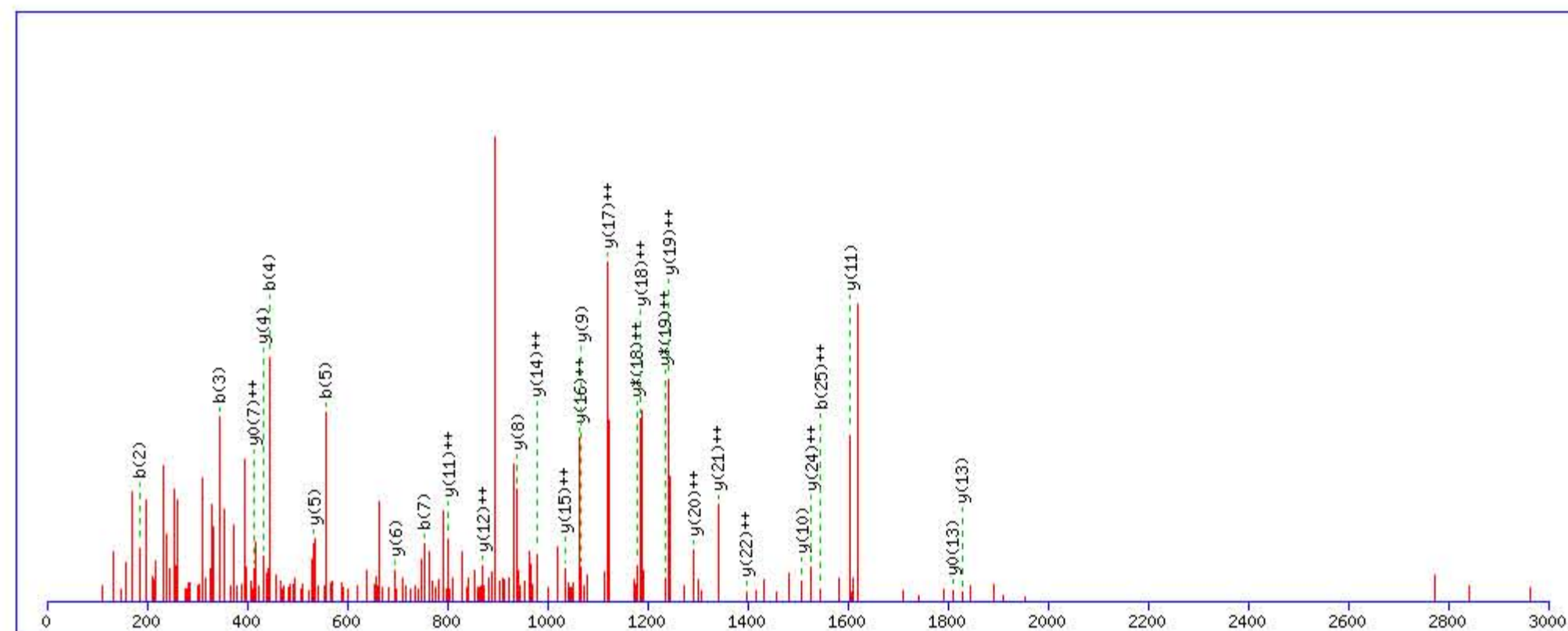
Title: Locus:1.1.1.3398.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 3237.675262

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

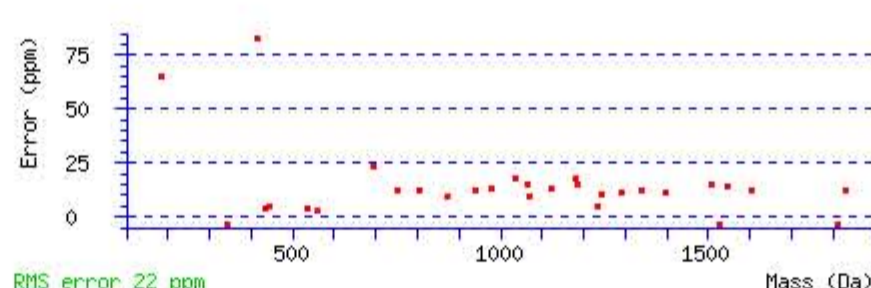
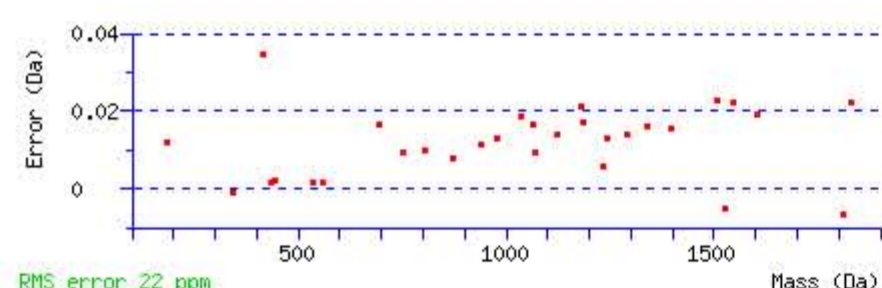
Variable modifications:

Q17 : Biotin:Thermo-21345 (Q)

Ions Score: 44 Expect: 0.00081

Matches : 30/256 fragment ions using 88 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							26
2	<b>185.128454</b>	93.067865					A	3125.598471	1563.302873	3108.571922	1554.789599	3107.587906	1554.297591	25
3	<b>345.159103</b>	173.083190					C	3054.561357	<b>1527.784316</b>	3037.534808	1519.271042	3036.550792	1518.779034	24
4	<b>444.227517</b>	222.617397					V	2894.530708	1447.768992	2877.504159	1439.255717	2876.520143	1438.763709	23
5	<b>557.311581</b>	279.159429					L	2795.462294	<b>1398.234785</b>	2778.435745	1389.721510	2777.451729	1389.229502	22
6	654.364345	327.685811					P	2682.378230	<b>1341.692753</b>	2665.351681	1333.179478	2664.367665	1332.687470	21
7	<b>753.432759</b>	377.220018					V	2585.325466	<b>1293.166371</b>	2568.298917	1284.653096	2567.314901	1284.161088	20
8	866.516823	433.762050					L	2486.257052	<b>1243.632164</b>	2469.230503	<b>1235.118889</b>	2468.246487	1234.626881	19
9	997.557308	499.282292					M	2373.172988	<b>1187.090132</b>	2356.146439	<b>1178.576857</b>	2355.162423	1178.084849	18
10	1112.584251	556.795764			1094.573686	547.790481	D	2242.132503	<b>1121.569889</b>	2225.105954	1113.056615	2224.121938	1112.564607	17
11	1169.605715	585.306495			1151.595150	576.301213	G	2127.105560	<b>1064.056418</b>	2110.079011	1055.543143	2109.094995	1055.051135	16
12	1282.689779	641.848527			1264.679214	632.843245	I	2070.084096	<b>1035.545686</b>	2053.057547	1027.032411	2052.073531	1026.540403	15
13	1410.748357	705.877816	1393.721808	697.364542	1392.737792	696.872534	Q	1957.000032	<b>979.003654</b>	1939.973483	970.490380	1938.989467	969.998371	14
14	1497.780385	749.393830	1480.753836	740.880556	1479.769820	740.388548	S	<b>1828.941454</b>	914.974365	1811.914905	906.461091	<b>1810.930889</b>	905.969083	13
15	1634.839297	817.923286	1617.812748	809.410012	1616.828732	808.918004	H	1741.909426	<b>871.458351</b>	1724.882877	862.945077	1723.898861	862.453068	12
16	1731.892061	866.449668	1714.865512	857.936394	1713.881496	857.444386	P	<b>1604.850514</b>	<b>802.928895</b>	1587.823965	794.415621	1586.839949	793.923612	11
17	2171.117387	1086.062331	2154.090838	1077.549057	2153.106822	1077.057049	Q	<b>1507.797750</b>	754.402513	1490.771201	745.889239	1489.787185	745.397230	10
18	2299.212350	1150.109813	2282.185801	1141.596538	2281.201785	1141.104530	K	<b>1068.572424</b>	534.789850	1051.545875	526.276575	1050.561859	525.784567	9
19	2396.265114	1198.636195	2379.238565	1190.122920	2378.254549	1189.630912	P	<b>940.477461</b>	470.742368	923.450912	462.229094	922.466896	461.737086	8
20	2543.333528	1272.170402	2526.306979	1263.657127	2525.322963	1263.165119	F	843.424697	422.215986	826.398148	413.702712	825.414132	<b>413.210704</b>	7
21	2706.396857	1353.702066	2689.370308	1345.188792	2688.386292	1344.696784	Y	<b>696.356283</b>	348.681779	679.329734	340.168505	678.345718	339.676497	6
22	2807.444536	1404.225906	2790.417987	1395.712631	2789.433971	1395.220623	T	<b>533.292954</b>	267.150115	516.266405	258.636840	515.282389	258.144832	5
23	2906.512950	1453.760113	2889.486401	1445.246838	2888.502385	1444.754830	V	<b>432.245275</b>	216.626275	415.218726	208.113001	414.234710	207.620993	4
24	2963.534414	1482.270845	2946.507865	1473.757570	2945.523849	1473.265562	G	333.176861	167.092069	316.150312	158.578794	315.166296	158.086786	3
25	3092.577007	<b>1546.792141</b>	3075.550458	1538.278867	3074.566442	1537.786859	E	276.155397	138.581337	259.128848	130.068062	258.144832	129.576054	2
26							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **IACVLPVLM DGIQSH P QKPFYT VGEK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
44.0	3237.675262	0.034674	<a href="#">IACVLPVLM DGIQSH P QKPFYT VGEK</a>
26.2	3237.675262	0.034674	<a href="#">IACVLPVLM DGIQSH P QKPFYT VGEK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SVAVYGQYGGQPCVGNAFETQSCEPTR**

Found in **CO7\_HUMAN**, Complement component C7 OS=Homo sapiens GN=C7 PE=1 SV=2

Match to Query 57885: 3272.503122 from(1091.841650,3+) rtinseconds(2219) index(6098)

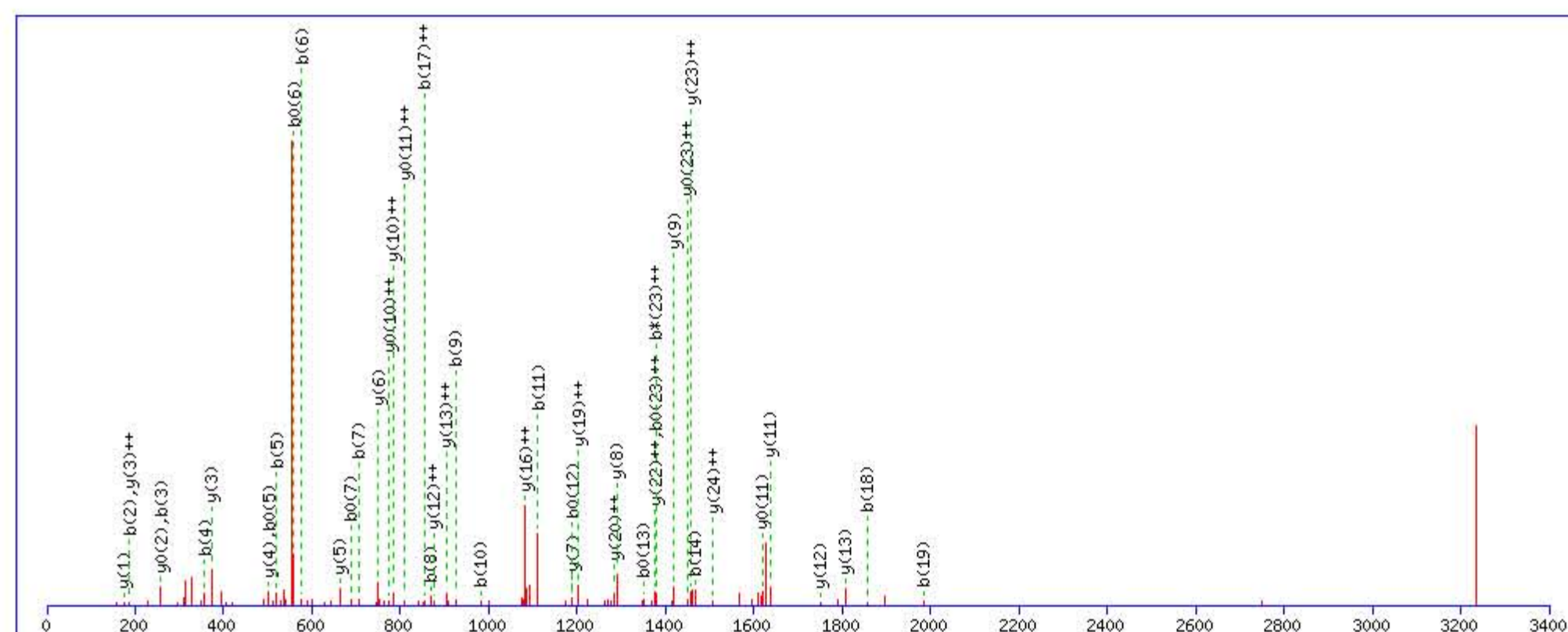
Title: Locus:1.1.1.3292.25 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3272.468933

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

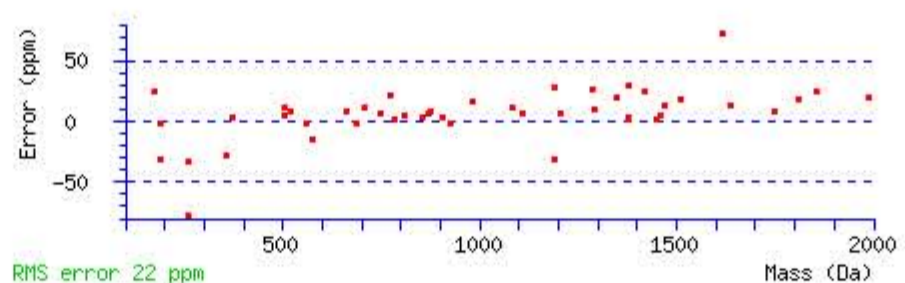
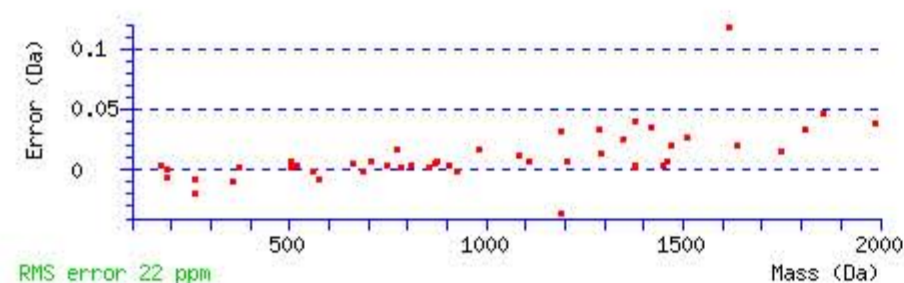
Variable modifications:

Q21 : Biotin:Thermo-21345 (Q)

Ions Score: 68 Expect: 2e-006

Matches : 47/298 fragment ions using 95 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							27
2	<b>187.107718</b>	94.057497			169.097153	85.052214	V	3186.444157	1593.725716	3169.417608	1585.212442	3168.433592	1584.720434	26
3	<b>258.144832</b>	129.576054			240.134267	120.570772	A	3087.375743	1544.191509	3070.349194	1535.678235	3069.365178	1535.186227	25
4	<b>357.213246</b>	179.110261			339.202681	170.104979	V	3016.338629	<b>1508.672952</b>	2999.312080	1500.159678	2998.328064	1499.667670	24
5	<b>520.276575</b>	260.641926			<b>502.266010</b>	251.636643	Y	2917.270215	<b>1459.138745</b>	2900.243666	1450.625471	2899.259650	<b>1450.133463</b>	23
6	<b>577.298039</b>	289.152658			<b>559.287474</b>	280.147375	G	2754.206886	<b>1377.607081</b>	2737.180337	1369.093806	2736.196321	1368.601798	22
7	<b>705.356617</b>	353.181947	688.330068	344.668672	<b>687.346052</b>	344.176664	Q	2697.185422	1349.096349	2680.158873	1340.583074	2679.174857	1340.091066	21
8	<b>868.419946</b>	434.713611	851.393397	426.200337	850.409381	425.708329	Y	2569.126844	<b>1285.067060</b>	2552.100295	1276.553785	2551.116279	1276.061777	20
9	<b>925.441410</b>	463.224343	908.414861	454.711069	907.430845	454.219061	G	2406.063515	<b>1203.535395</b>	2389.036966	1195.022121	2388.052950	1194.530113	19
10	<b>982.462874</b>	491.735075	965.436325	483.221801	964.452309	482.729793	G	2349.042051	1175.024663	2332.015502	1166.511389	2331.031486	1166.019381	18
11	<b>1110.521452</b>	555.764364	1093.494903	547.251090	1092.510887	546.759082	Q	2292.020587	1146.513931	2274.994038	1138.000657	2274.010022	1137.508649	17
12	1207.574216	604.290746	1190.547667	595.777472	<b>1189.563651</b>	595.285464	P	2163.962009	<b>1082.484642</b>	2146.935460	1073.971368	2145.951444	1073.479360	16
13	1367.604865	684.306071	1350.578316	675.792796	<b>1349.594300</b>	675.300788	C	2066.909245	1033.958260	2049.882696	1025.444986	2048.898680	1024.952978	15
14	<b>1466.673279</b>	733.840278	1449.646730	725.327003	1448.662714	724.834995	V	1906.878596	953.942936	1889.852047	945.429662	1888.868031	944.937654	14
15	1523.694743	762.351010	1506.668194	753.837735	1505.684178	753.345727	G	<b>1807.810182</b>	<b>904.408729</b>	1790.783633	895.895455	1789.799617	895.403446	13
16	1637.737670	819.372473	1620.711121	810.859199	1619.727105	810.367191	N	<b>1750.788718</b>	<b>875.897997</b>	1733.762169	867.384723	1732.778153	866.892715	12
17	1708.774784	<b>854.891030</b>	1691.748235	846.377756	1690.764219	845.885748	A	<b>1636.745791</b>	818.876534	1619.719242	810.363259	<b>1618.735226</b>	<b>809.871251</b>	11
18	<b>1855.843198</b>	928.425237	1838.816649	919.911963	1837.832633	919.419955	F	1565.708677	<b>783.357977</b>	1548.682128	774.844702	1547.698112	<b>774.352694</b>	10
19	<b>1984.885791</b>	992.946534	1967.859242	984.433259	1966.875226	983.941251	E	<b>1418.640263</b>	709.823770	1401.613714	701.310495	1400.629698	700.818487	9
20	2085.933470	1043.470373	2068.906921	1034.957098	2067.922905	1034.465090	T	<b>1289.597670</b>	645.302473	1272.571121	636.789199	1271.587105	636.297190	8
21	2525.158796	1263.083036	2508.132247	1254.569761	2507.148231	1254.077754	Q	<b>1188.549991</b>	594.778634	1171.523442	586.265359	1170.539426	585.773351	7
22	2612.190824	1306.599050	2595.164275	1298.085776	2594.180259	1297.593768	S	<b>749.324665</b>	375.165970	732.298116	366.652696	731.314100	366.160688	6
23	2772.221473	1386.614374	2755.194924	<b>1378.101100</b>	2754.210908	<b>1377.609092</b>	C	<b>662.292637</b>	331.649956	645.266088	323.136682	644.282072	322.644674	5
24	2901.264066	1451.135671	2884.237517	1442.622396	2883.253501	1442.130389	E	<b>502.261988</b>	251.634632	485.235439	243.121357	484.251423	242.629349	4
25	2998.316830	1499.662053	2981.290281	1491.148778	2980.306265	1490.656771	P	<b>373.219395</b>	<b>187.113335</b>	356.192846	178.600061	355.208830	178.108053	3
26	3099.364509	1550.185892	3082.337960	1541.672618	3081.353944	1541.180610	T	276.166631	138.586953	259.140082	130.073679	<b>258.156066</b>	129.581671	2
27							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SVAVYGQYGGQPCVGNAFETQSCEPTR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
67.9	3272.468933	0.034189	<a href="#">SVAVYGQYGGQPCVGNAFETQSCEPTR</a>
11.2	3272.468933	0.034189	<a href="#">SVAVYGQYGGQPCVGNAFETQSCEPTR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AGIQER**

Found in **CO8A\_HUMAN**, Complement component C8 alpha chain OS=Homo sapiens GN=C8A PE=1 SV=2

Match to Query 11197: 983.518528 from(492.766540,2+) rtinseconds(1430) index(28415)

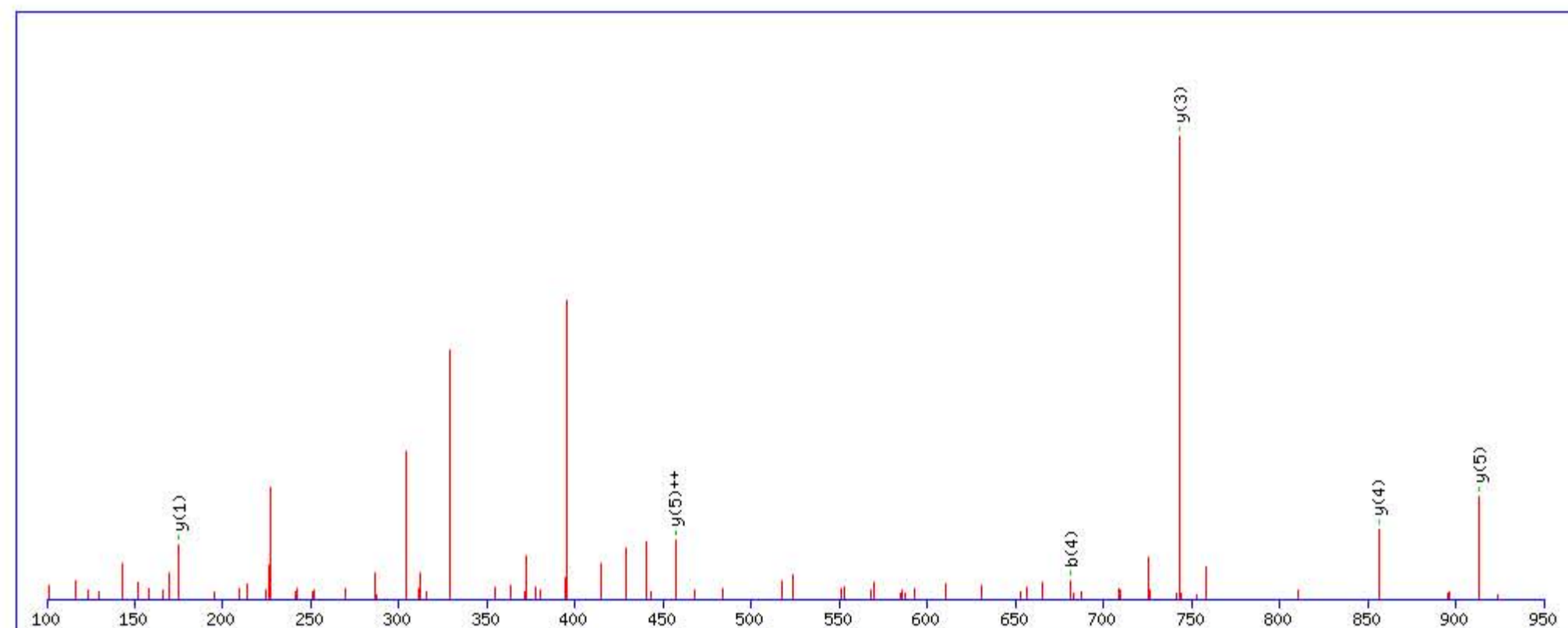
Title: Locus:1.1.1.3161.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 983.522217

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

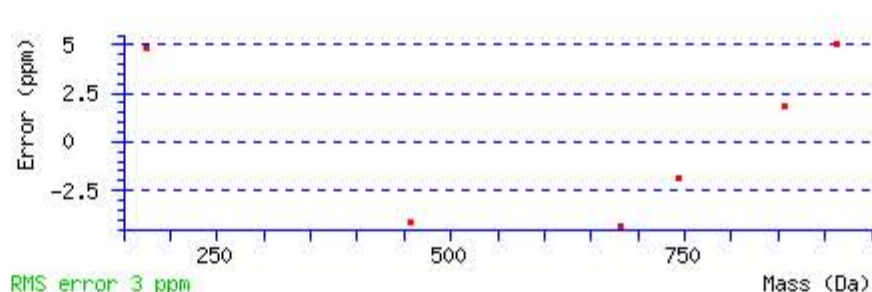
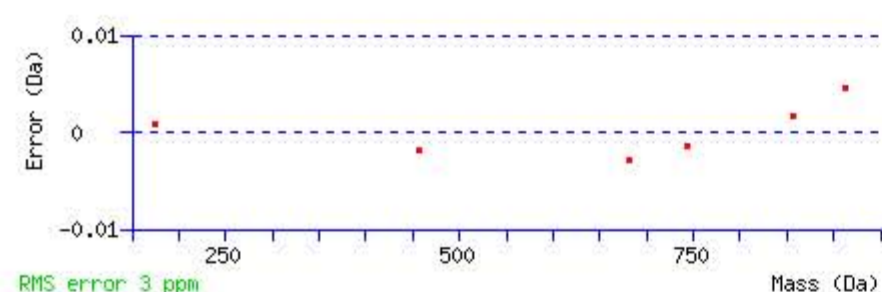
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.044

Matches : 6/44 fragment ions using 9 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							6
2	129.065854	65.036565					G	<b>913.492399</b>	<b>457.249838</b>	896.465850	448.736563	895.481834	448.244555	5
3	242.149918	121.578597					I	<b>856.470935</b>	428.739106	839.444386	420.225831	838.460370	419.733823	4
4	<b>681.375244</b>	341.191260	664.348695	332.677986			Q	<b>743.386871</b>	372.197074	726.360322	363.683799	725.376306	363.191791	3
5	810.417837	405.712557	793.391288	397.199282	792.407272	396.707274	E	304.161545	152.584411	287.134996	144.071136	286.150980	143.579128	2
6							R	<b>175.118952</b>	88.063114	158.092403	79.549840			1



NCBI BLAST search of **AGIQER**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
26.3	983.522217	-0.003689	<a href="#">AGIQER</a>
23.4	983.522217	-0.003689	<a href="#">AGLEQR</a>
11.4	983.522217	-0.003689	<a href="#">QIQER</a>
11.4	983.522217	-0.003689	<a href="#">QLQER</a>
9.2	983.514816	0.003712	<a href="#">QPVREAER</a>
9.1	983.522202	-0.003674	<a href="#">KLMENPPR</a>
9.1	983.522217	-0.003689	<a href="#">QLEQR</a>
9.1	983.530090	-0.011562	<a href="#">QLLNHFGR</a>
8.1	983.522217	-0.003689	<a href="#">AGQELR</a>
5.3	983.522217	-0.003689	<a href="#">AAQVER</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LGSLGAACEQTQTEGAK**

Found in **CO8A\_HUMAN**, Complement component C8 alpha chain OS=Homo sapiens GN=C8A PE=1 SV=2

Match to Query 40408: 2030.961488 from(1016.488020,2+) rtinseconds(1734) index(17331)

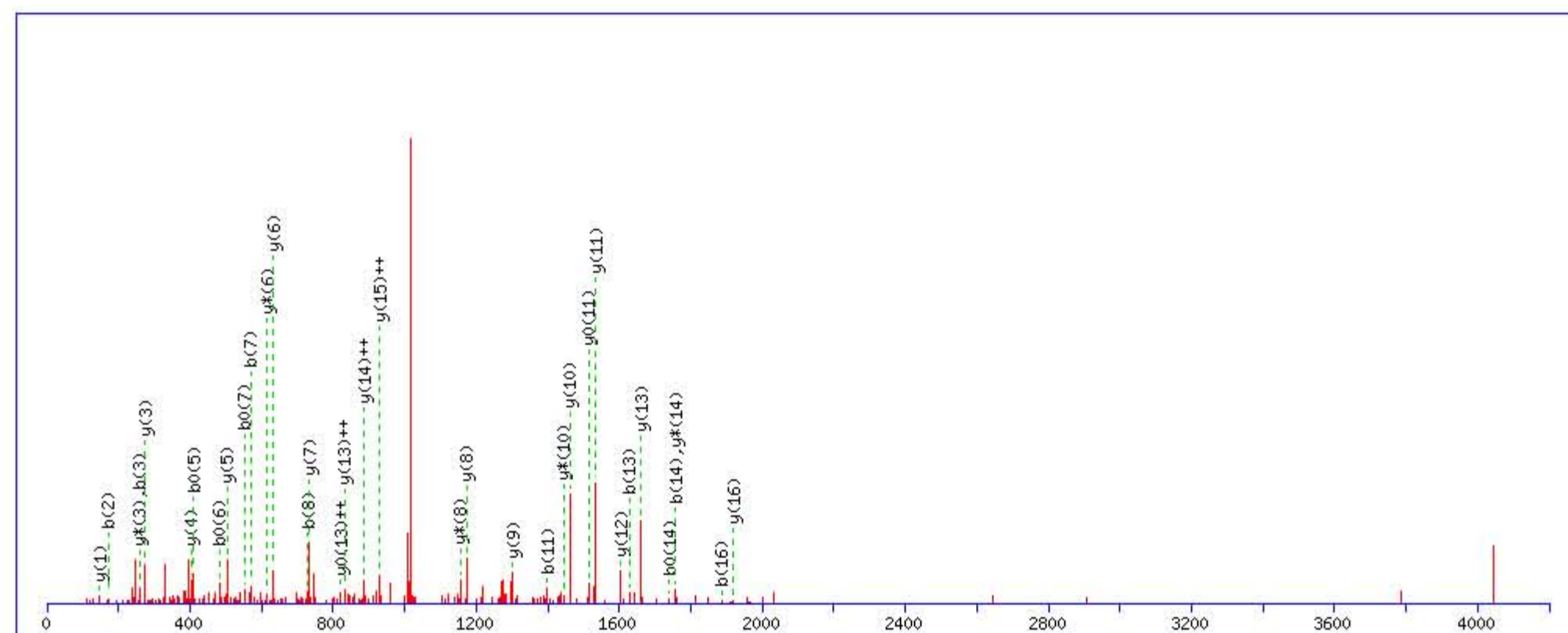
Title: Locus:1.1.1.3169.23 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2030.976501

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

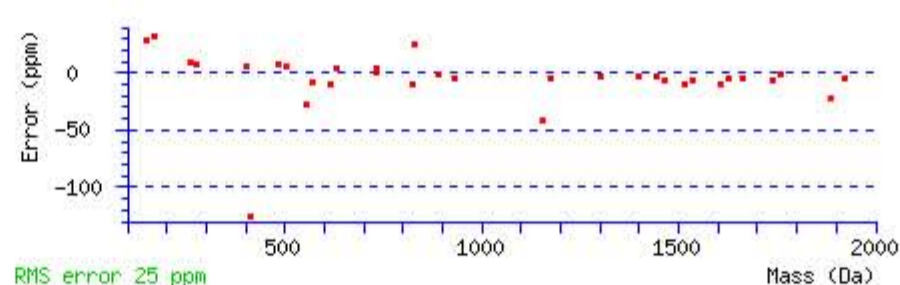
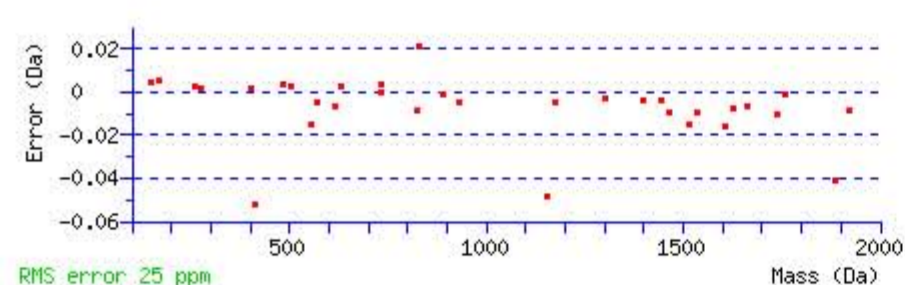
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 85 Expect: 6e-008

Matches : 35/164 fragment ions using 57 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							17
2	<b>171.112804</b>	86.060040					G	<b>1918.899727</b>	959.953502	1901.873178	951.440227	1900.889162	950.948219	16
3	<b>258.144832</b>	129.576054			240.134267	120.570772	S	1861.878263	<b>931.442770</b>	1844.851714	922.929495	1843.867698	922.437487	15
4	371.228896	186.118086			353.218331	177.112804	L	1774.846235	<b>887.926756</b>	<b>1757.819686</b>	879.413481	1756.835670	878.921473	14
5	428.250360	214.628818			<b>410.239795</b>	205.623536	G	<b>1661.762171</b>	<b>831.384724</b>	1644.735622	822.871449	1643.751606	<b>822.379441</b>	13
6	499.287474	250.147375			<b>481.276909</b>	241.142093	A	<b>1604.740707</b>	802.873992	1587.714158	794.360717	1586.730142	793.868709	12
7	<b>570.324588</b>	285.665932			<b>552.314023</b>	276.660650	A	<b>1533.703593</b>	767.355435	1516.677044	758.842160	<b>1515.693028</b>	758.350152	11
8	<b>730.355237</b>	365.681257			712.344672	356.675974	C	<b>1462.666479</b>	731.836878	<b>1445.639930</b>	723.323603	1444.655914	722.831595	10
9	859.397830	430.202553			841.387265	421.197271	E	<b>1302.635830</b>	651.821553	1285.609281	643.308279	1284.625265	642.816270	9
10	1298.623156	649.815216	1281.596607	641.301942	1280.612591	640.809934	Q	<b>1173.593237</b>	587.300257	<b>1156.566688</b>	578.786982	1155.582672	578.294974	8
11	<b>1399.670835</b>	700.339056	1382.644286	691.825781	1381.660270	691.333773	T	<b>734.367911</b>	367.687594	717.341362	359.174319	716.357346	358.682311	7
12	1527.729413	764.368345	1510.702864	755.855070	1509.718848	755.363062	Q	<b>633.320232</b>	317.163754	<b>616.293683</b>	308.650480	615.309667	308.158472	6
13	<b>1628.777092</b>	814.892184	1611.750543	806.378910	1610.766527	805.886902	T	<b>505.261654</b>	253.134465	488.235105	244.621190	487.251089	244.129182	5
14	<b>1757.819685</b>	879.413481	1740.793136	870.900206	<b>1739.809120</b>	870.408198	E	<b>404.213975</b>	202.610625	387.187426	194.097351	386.203410	193.605343	4
15	1814.841149	907.924213	1797.814600	899.410938	1796.830584	898.918930	G	<b>275.171382</b>	138.089329	<b>258.144833</b>	129.576054			3
16	<b>1885.878263</b>	943.442770	1868.851714	934.929495	1867.867698	934.437487	A	218.149918	109.578597	201.123369	101.065322			2
17							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LGSLGAACEQTQTEGAK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
84.6	2030.976501	-0.015013	<a href="#">LGSLGAACEQTQTEGAK</a>
57.5	2030.976501	-0.015013	<a href="#">LGSLGAACEQTQTEGAK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AIDEDCSQYEPIPGSQK**

Found in **CO8A\_HUMAN**, Complement component C8 alpha chain OS=Homo sapiens GN=C8A PE=1 SV=2

Match to Query 44029: 2247.011712 from(750.011180,3+) rtinseconds(1924) index(31261)

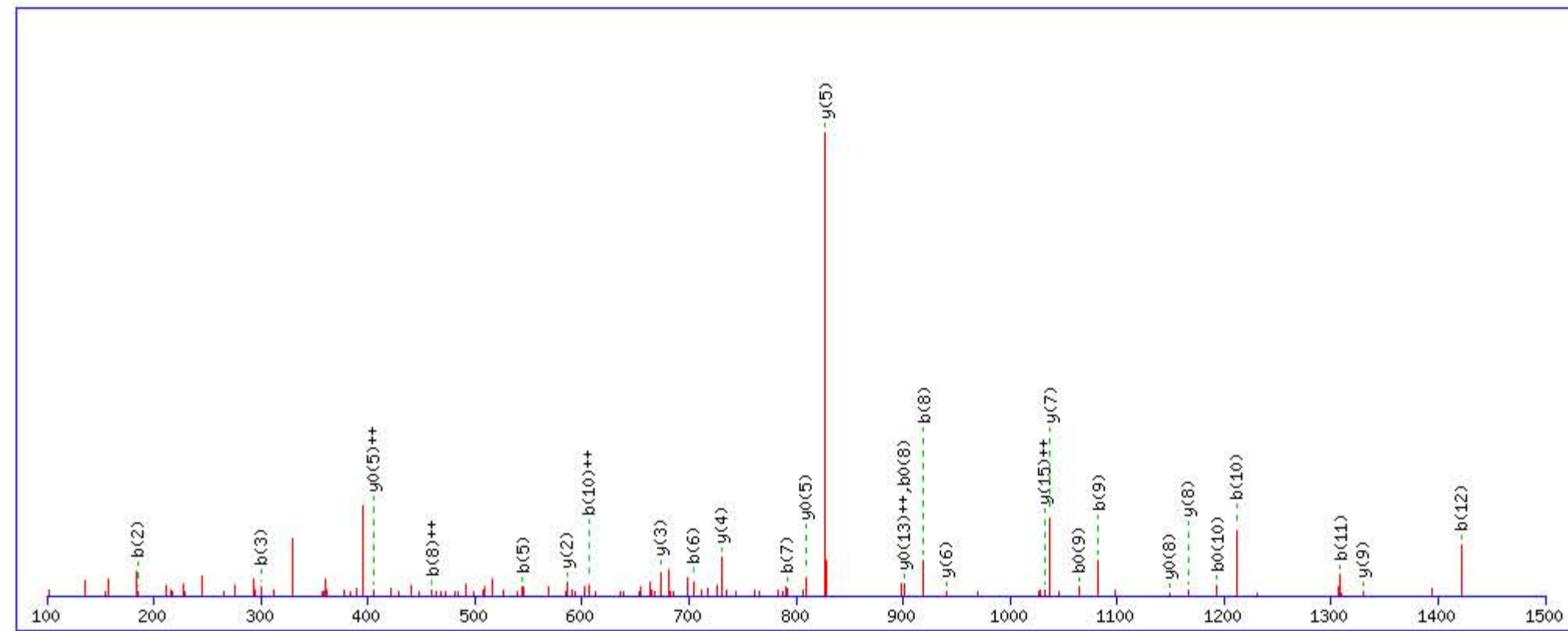
Title: Locus:1.1.1.3333.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2247.018753

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

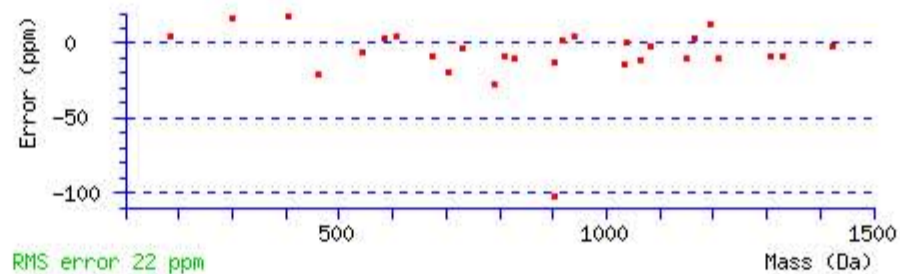
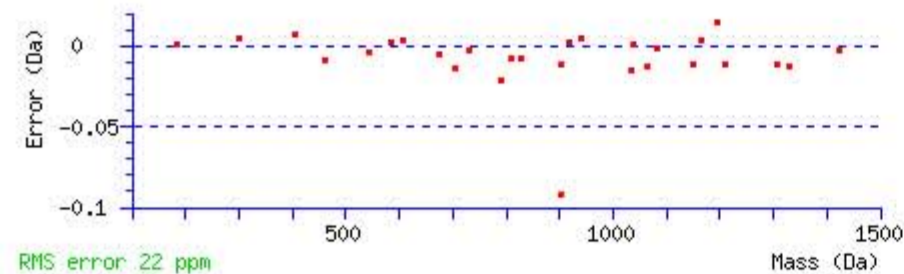
Variable modifications:

Q16 : Biotin:Thermo-21345 (Q)

Ions Score: 40 Expect: 0.00098

Matches : 28/170 fragment ions using 69 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							17
2	<b>185.128454</b>	93.067865					I	2176.988934	1088.998105	2159.962385	1080.484830	2158.978369	1079.992822	16
3	<b>300.155397</b>	150.581336			282.144832	141.576054	D	2063.904870	<b>1032.456073</b>	2046.878321	1023.942798	2045.894305	1023.450790	15
4	429.197990	215.102633			411.187425	206.097351	E	1948.877927	974.942602	1931.851378	966.429327	1930.867362	965.937319	14
5	<b>544.224933</b>	272.616105			526.214368	263.610822	D	1819.835334	910.421305	1802.808785	901.908031	1801.824769	<b>901.416022</b>	13
6	<b>704.255582</b>	352.631429			686.245017	343.626147	C	1704.808391	852.907833	1687.781842	844.394559	1686.797826	843.902551	12
7	<b>791.287610</b>	396.147443			773.277045	387.142161	S	1544.777742	772.892509	1527.751193	764.379235	1526.767177	763.887227	11
8	<b>919.346188</b>	<b>460.176732</b>	902.319639	451.663458	<b>901.335623</b>	451.171450	Q	1457.745714	729.376495	1440.719165	720.863221	1439.735149	720.371212	10
9	<b>1082.409517</b>	541.708397	1065.382968	533.195122	<b>1064.398952</b>	532.703114	Y	<b>1329.687136</b>	665.347206	1312.660587	656.833931	1311.676571	656.341923	9
10	<b>1211.452110</b>	<b>606.229693</b>	1194.425561	597.716419	<b>1193.441545</b>	597.224410	E	<b>1166.623807</b>	583.815541	1149.597258	575.302267	<b>1148.613242</b>	574.810259	8
11	<b>1308.504874</b>	654.756075	1291.478325	646.242801	1290.494309	645.750792	P	<b>1037.581214</b>	519.294245	1020.554665	510.780971	1019.570649	510.288963	7
12	<b>1421.588938</b>	711.298107	1404.562389	702.784832	1403.578373	702.292824	I	<b>940.528450</b>	470.767863	923.501901	462.254589	922.517885	461.762581	6
13	1518.641702	759.824489	1501.615153	751.311215	1500.631137	750.819206	P	<b>827.444386</b>	414.225831	810.417837	405.712557	<b>809.433821</b>	<b>405.220549</b>	5
14	1575.663166	788.335221	1558.636617	779.821946	1557.652601	779.329938	G	<b>730.391622</b>	365.699449	713.365073	357.186175	712.381057	356.694167	4
15	1662.695194	831.851235	1645.668645	823.337961	1644.684629	822.845952	S	<b>673.370158</b>	337.188717	656.343609	328.675443	655.359593	328.183435	3
16	2101.920520	1051.463898	2084.893971	1042.950623	2083.909955	1042.458615	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
17							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **AIDEDCSQYEPIPGSQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
40.3	2247.018753	-0.007041	<a href="#">AIDEDCSQYEPIPGSQK</a>

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

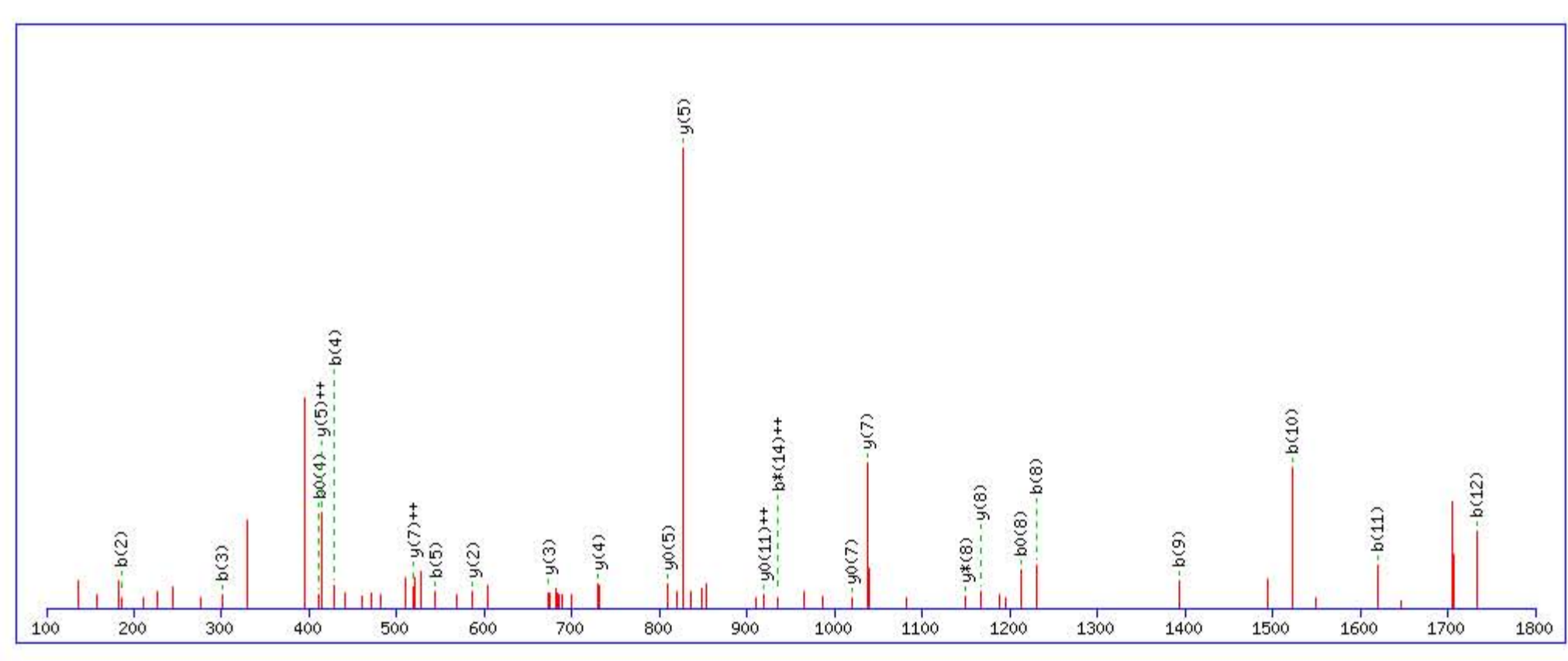
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AIDEDCSQYEPGPSQK**  
 Found in **CO8A\_HUMAN**, Complement component C8 alpha chain OS=Homo sapiens GN=C8A PE=1 SV=2

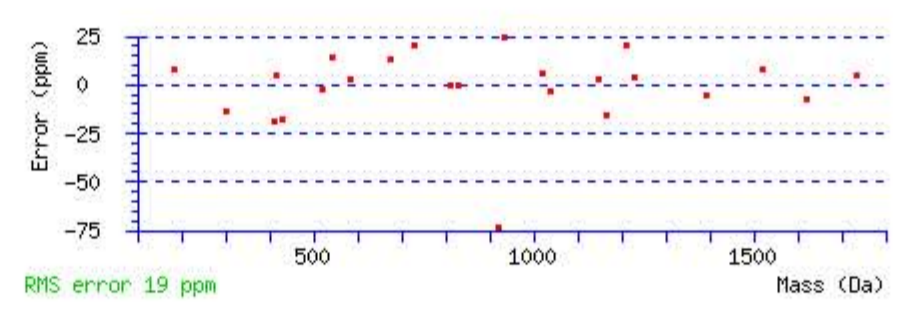
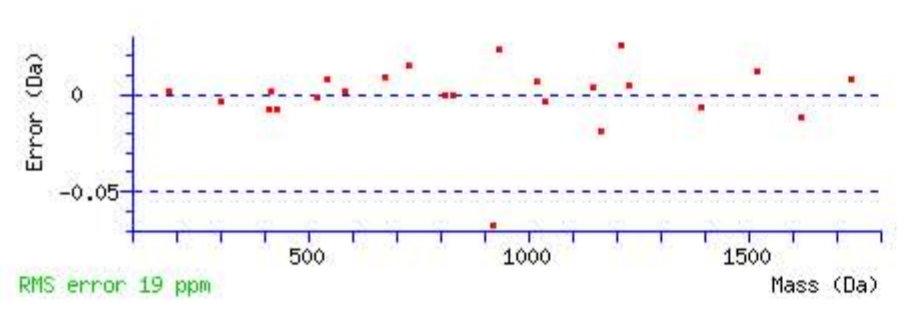
Match to Query 49088: 2558.183262 from(853.735030,3+) rtinseconds(2171) index(32859)  
 Title: Locus:1.1.1.3419.25 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2558.185501  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q8 : Biotin:Thermo-21345 (Q)  
 Q16 : Biotin:Thermo-21345 (Q)  
 Ions Score: 31 Expect: 0.0015  
 Matches : 24/170 fragment ions using 62 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							17
2	<b>185.128454</b>	93.067865					I	2488.155682	1244.581479	2471.129133	1236.068204	2470.145117	1235.576196	16
3	<b>300.155397</b>	150.581336			282.144832	141.576054	D	2375.071618	1188.039447	2358.045069	1179.526172	2357.061053	1179.034164	15
4	<b>429.197990</b>	215.102633			<b>411.187425</b>	206.097351	E	2260.044675	1130.525975	2243.018126	1122.012701	2242.034110	1121.520693	14
5	<b>544.224933</b>	272.616105			526.214368	263.610822	D	2131.002082	1066.004679	2113.975533	1057.491404	2112.991517	1056.999396	13
6	704.255582	352.631429			686.245017	343.626147	C	2015.975139	1008.491208	1998.948590	999.977933	1997.964574	999.485925	12
7	791.287610	396.147443			773.277045	387.142161	S	1855.944490	928.475883	1838.917941	919.962609	1837.933925	<b>919.470601</b>	11
8	<b>1230.512936</b>	615.760106	1213.486387	607.246832	<b>1212.502371</b>	606.754824	Q	1768.912462	884.959869	1751.885913	876.446595	1750.901897	875.954587	10
9	<b>1393.576265</b>	697.291771	1376.549716	688.778496	1375.565700	688.286488	Y	1329.687136	665.347206	1312.660587	656.833932	1311.676571	656.341924	9
10	<b>1522.618858</b>	761.813067	1505.592309	753.299793	1504.608293	752.807785	E	<b>1166.623807</b>	583.815541	<b>1149.597258</b>	575.302267	1148.613242	574.810259	8
11	<b>1619.671622</b>	810.339449	1602.645073	801.826175	1601.661057	801.334167	P	<b>1037.581214</b>	<b>519.294245</b>	1020.554665	510.780971	<b>1019.570649</b>	510.288963	7
12	<b>1732.755686</b>	866.881481	1715.729137	858.368207	1714.745121	857.876198	I	940.528450	470.767863	923.501901	462.254589	922.517885	461.762581	6
13	1829.808450	915.407863	1812.781901	906.894589	1811.797885	906.402581	P	<b>827.444386</b>	<b>414.225831</b>	810.417837	405.712557	<b>809.433821</b>	405.220549	5
14	1886.829914	943.918595	1869.803365	<b>935.405321</b>	1868.819349	934.913312	G	<b>730.391622</b>	365.699449	713.365073	357.186175	712.381057	356.694167	4
15	1973.861942	987.434609	1956.835393	978.921335	1955.851377	978.429327	S	<b>673.370158</b>	337.188717	656.343609	328.675443	655.359593	328.183435	3
16	2413.087268	1207.047272	2396.060719	1198.533997	2395.076703	1198.041989	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
17							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **AIDEDCSQYEPGPSQK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
31.0	2558.185501	-0.002239	<a href="#">AIDEDCSQYEPGPSQK</a>
1.1	2558.171906	0.011356	<a href="#">QGSGSGQSPGHGQRGSGSRQSPSYGR</a>

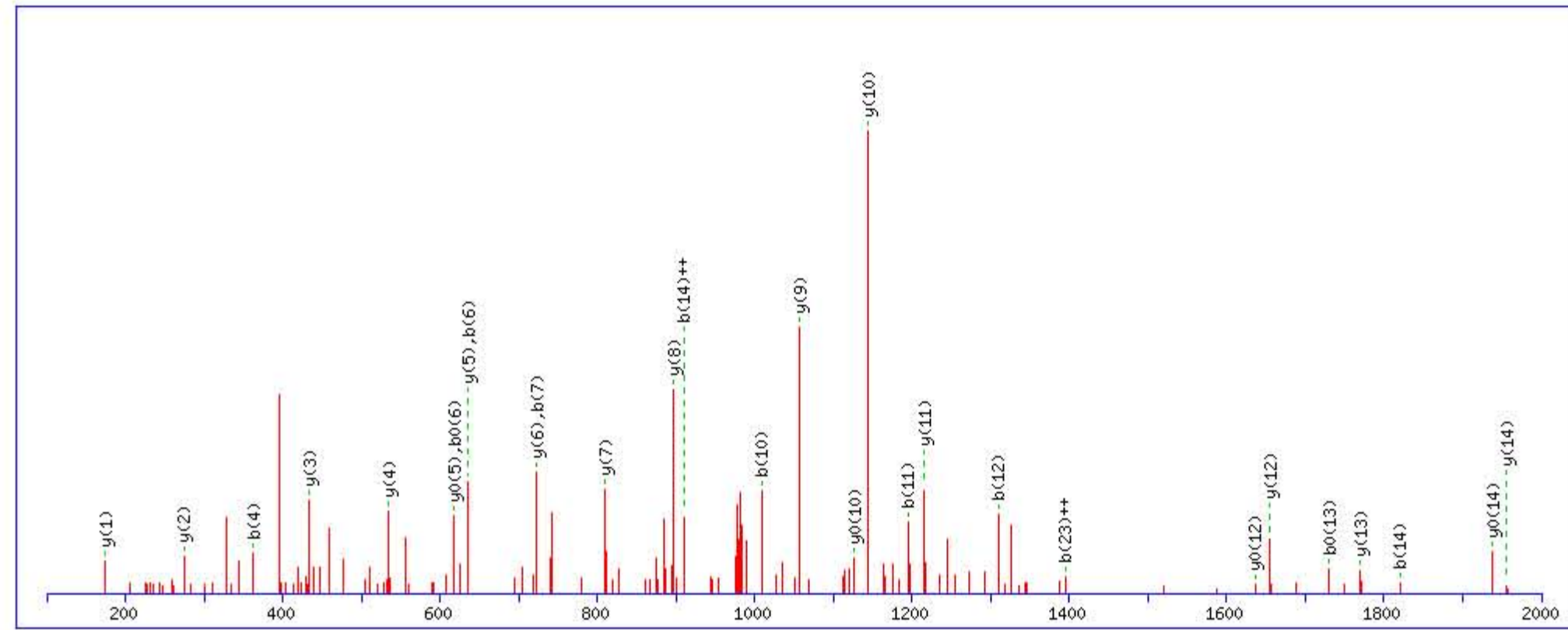
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **FGGTICSGDIWDQASCSSSTTCVR**  
Found in **CO8A\_HUMAN**, Complement component C8 alpha chain OS=Homo sapiens GN=C8A PE=1 SV=2

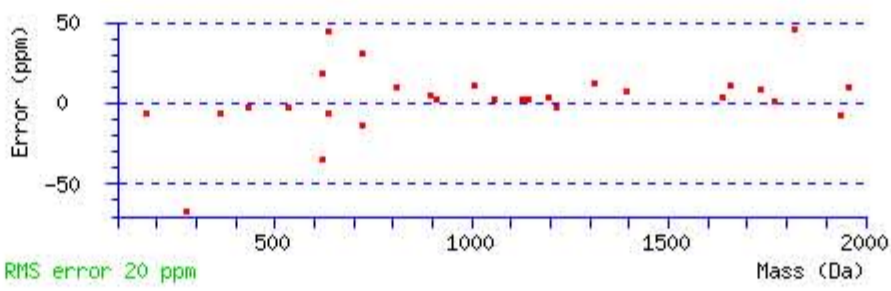
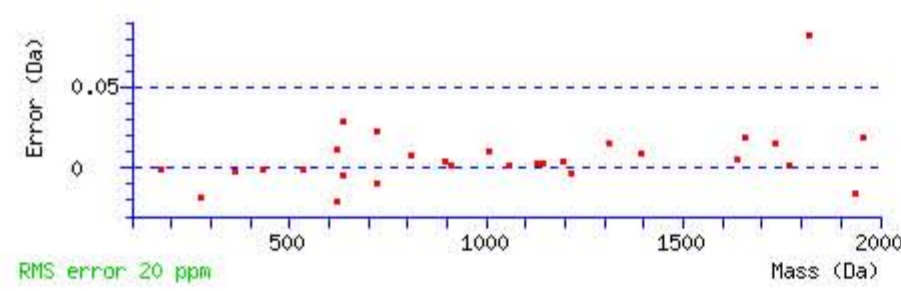
Match to Query 53707: 2962.273242 from(988.431690,3+) rtinseconds(2392) index(34047)  
Title: Locus:1.1.1.3496.25 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
Or, Plot from  to  Da   
Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2962.271835  
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
Variable modifications: Q13 : Biotin:Thermo-21345 (Q)  
Ions Score: 109 Expect: 4.2e-011  
Matches : 29/240 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							24
2	205.097154	103.052215					G	2816.210649	1408.608962	2799.184100	1400.095688	2798.200084	1399.603680	23
3	262.118618	131.562947					G	2759.189185	1380.098230	2742.162636	1371.584956	2741.178620	1371.092948	22
4	<b>363.166297</b>	182.086786			345.155732	173.081504	T	2702.167721	1351.587498	2685.141172	1343.074224	2684.157156	1342.582216	21
5	476.250361	238.628818			458.239796	229.623536	I	2601.120042	1301.063659	2584.093493	1292.550384	2583.109477	1292.058376	20
6	<b>636.281010</b>	318.644143			<b>618.270445</b>	309.638861	C	2488.035978	1244.521627	2471.009429	1236.008352	2470.025413	1235.516344	19
7	<b>723.313038</b>	362.160157			705.302473	353.154875	S	2328.005329	1164.506302	2310.978780	1155.993028	2309.994764	1155.501020	18
8	780.334502	390.670889			762.323937	381.665607	G	2240.973301	1120.990288	2223.946752	1112.477014	2222.962736	1111.985006	17
9	895.361445	448.184361			877.350880	439.179078	D	2183.951837	1092.479556	2166.925288	1083.966282	2165.941272	1083.474274	16
10	<b>1008.445509</b>	504.726393			990.434944	495.721110	I	2068.924894	1034.966085	2051.898345	1026.452810	2050.914329	1025.968082	15
11	<b>1194.524822</b>	597.766049			1176.514257	588.760767	W	<b>1955.840830</b>	978.424053	1938.814281	969.910778	<b>1937.830265</b>	969.418770	14
12	<b>1309.551765</b>	655.279521			1291.541200	646.274238	D	<b>1769.761517</b>	885.384396	1752.734968	876.871122	1751.750952	876.379114	13
13	1748.777091	874.892184	1731.750542	866.378909	<b>1730.766526</b>	865.886901	Q	<b>1654.734574</b>	827.870925	1637.708025	819.357650	<b>1636.724009</b>	818.865642	12
14	<b>1819.814205</b>	<b>910.410741</b>	1802.787656	901.897466	1801.803640	901.405458	A	<b>1215.509248</b>	608.258262	1198.482699	599.744987	1197.498683	599.252979	11
15	1906.846233	953.926755	1889.819684	945.413480	1888.835668	944.921472	S	<b>1144.472134</b>	572.739705	1127.445585	564.226430	<b>1126.461569</b>	563.734422	10
16	2066.876882	1033.942079	2049.850333	1025.428804	2048.866317	1024.936796	C	<b>1057.440106</b>	529.223691	1040.413557	520.710416	1039.429541	520.218408	9
17	2153.908910	1077.458093	2136.882361	1068.944818	2135.898345	1068.452810	S	<b>897.409457</b>	449.208366	880.382908	440.695092	879.398892	440.203084	8
18	2240.940938	1120.974107	2223.914389	1112.460832	2222.930373	1111.968825	S	<b>810.377429</b>	405.692352	793.350880	397.179078	792.366864	396.687070	7
19	2327.972966	1164.490121	2310.946417	1155.976847	2309.962401	1155.484839	S	<b>723.345401</b>	362.176338	706.318852	353.663064	705.334836	353.171056	6
20	2429.020645	1215.013960	2411.994096	1206.500686	2411.010080	1206.008678	T	<b>636.313373</b>	318.660324	619.286824	310.147050	<b>618.302808</b>	309.655042	5
21	2530.068324	1265.537800	2513.041775	1257.024525	2512.057759	1256.532517	T	<b>535.265694</b>	268.136485	518.239145	259.623210	517.255129	259.131202	4
22	2690.098973	1345.553124	2673.072424	1337.039850	2672.088408	1336.547842	C	<b>434.218015</b>	217.612645	417.191466	209.099371			3
23	2789.167387	<b>1395.087331</b>	2772.140838	1386.574057	2771.156822	1386.082049	V	<b>274.187366</b>	137.597321	257.160817	129.084046			2
24							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **FGGTICSGDIWDQASCSSSTTCVR**  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
109.4	2962.271835	0.001407	<a href="#">FGGTICSGDIWDQASCSSSTTCVR</a>

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



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **QALEEFQK**

Found in **CO8B\_HUMAN**, Complement component C8 beta chain OS=Homo sapiens GN=C8B PE=1 SV=3

Match to Query 20406: 1302.661688 from(652.338120,2+) rtinseconds(1896) index(18288)

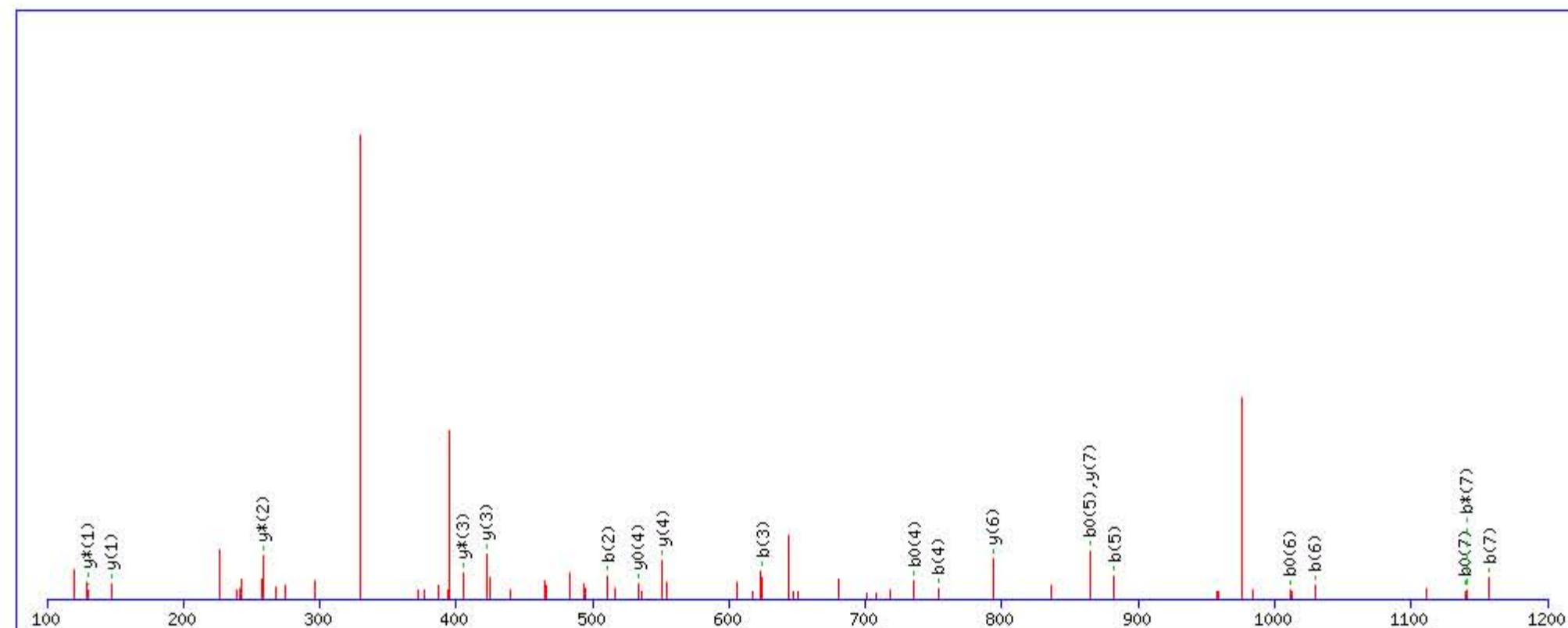
Title: Locus:1.1.1.3226.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1302.664185

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

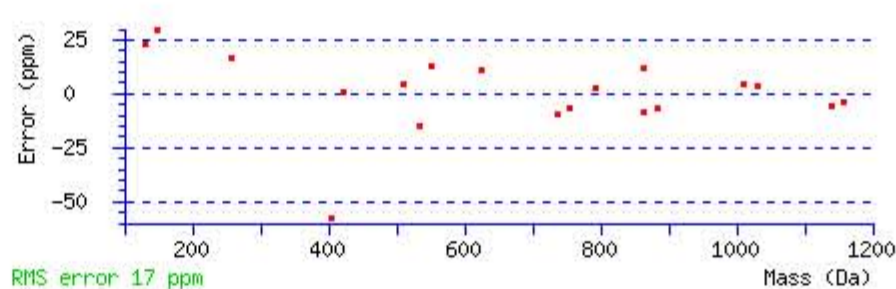
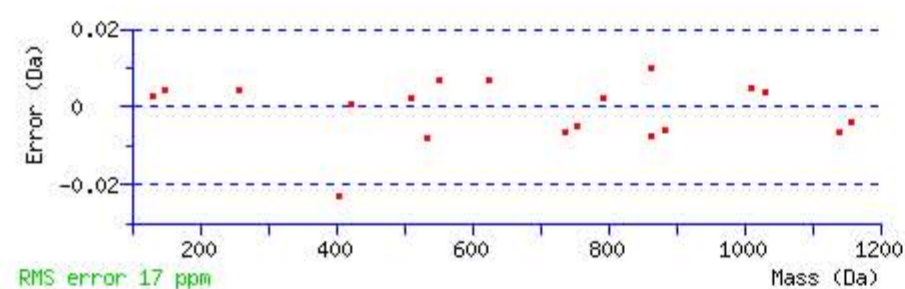
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 27 Expect: 0.047

Matches : 20/72 fragment ions using 39 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							8
2	<b>511.269716</b>	256.138496	494.243167	247.625221			A	<b>864.446160</b>	432.726718	847.419611	424.213443	846.435595	423.721435	7
3	<b>624.353780</b>	312.680528	607.327231	304.167254			L	<b>793.409046</b>	397.208161	776.382497	388.694887	775.398481	388.202879	6
4	<b>753.396373</b>	377.201825	736.369824	368.688550	<b>735.385808</b>	368.196542	E	680.324982	340.666129	663.298433	332.152854	662.314417	331.660846	5
5	<b>882.438966</b>	441.723121	865.412417	433.209847	<b>864.428401</b>	432.717839	E	<b>551.282389</b>	276.144833	534.255840	267.631558	<b>533.271824</b>	267.139550	4
6	<b>1029.507380</b>	515.257328	1012.480831	506.744054	<b>1011.496815</b>	506.252046	F	<b>422.239796</b>	211.623536	<b>405.213247</b>	203.110261			3
7	<b>1157.565958</b>	579.286617	<b>1140.539409</b>	570.773343	<b>1139.555393</b>	570.281334	Q	275.171382	138.089329	<b>258.144833</b>	129.576054			2
8							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **QALEEFQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
27.4	1302.664185	-0.002497	<a href="#">QALEEFQK</a>
18.3	1302.650269	0.011419	<a href="#">YLKQQCHAQK</a>
12.9	1302.667542	-0.005854	<a href="#">KEALMQEK</a>
7.7	1302.660141	0.001547	<a href="#">EAEGKLAAQMOK</a>
7.4	1302.660187	0.001501	<a href="#">QPPVTMETTKR</a>
7.4	1302.643097	0.018591	<a href="#">CQLGFFGFSIK</a>
7.3	1302.668030	-0.006342	<a href="#">YLKQQQDAPGR</a>
7.1	1302.649582	0.012106	<a href="#">FYSLLDPSYAK</a>
6.7	1302.668045	-0.006357	<a href="#">QPAGPASATPPGPR</a>
5.3	1302.667542	-0.005854	<a href="#">EAKEMLQK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **CEGFVCAQTGR**

Found in **CO8B\_HUMAN**, Complement component C8 beta chain OS=Homo sapiens GN=C8B PE=1 SV=3

Match to Query 30279: 1594.702002 from(532.574610,3+) rtinseconds(1801) index(17738)

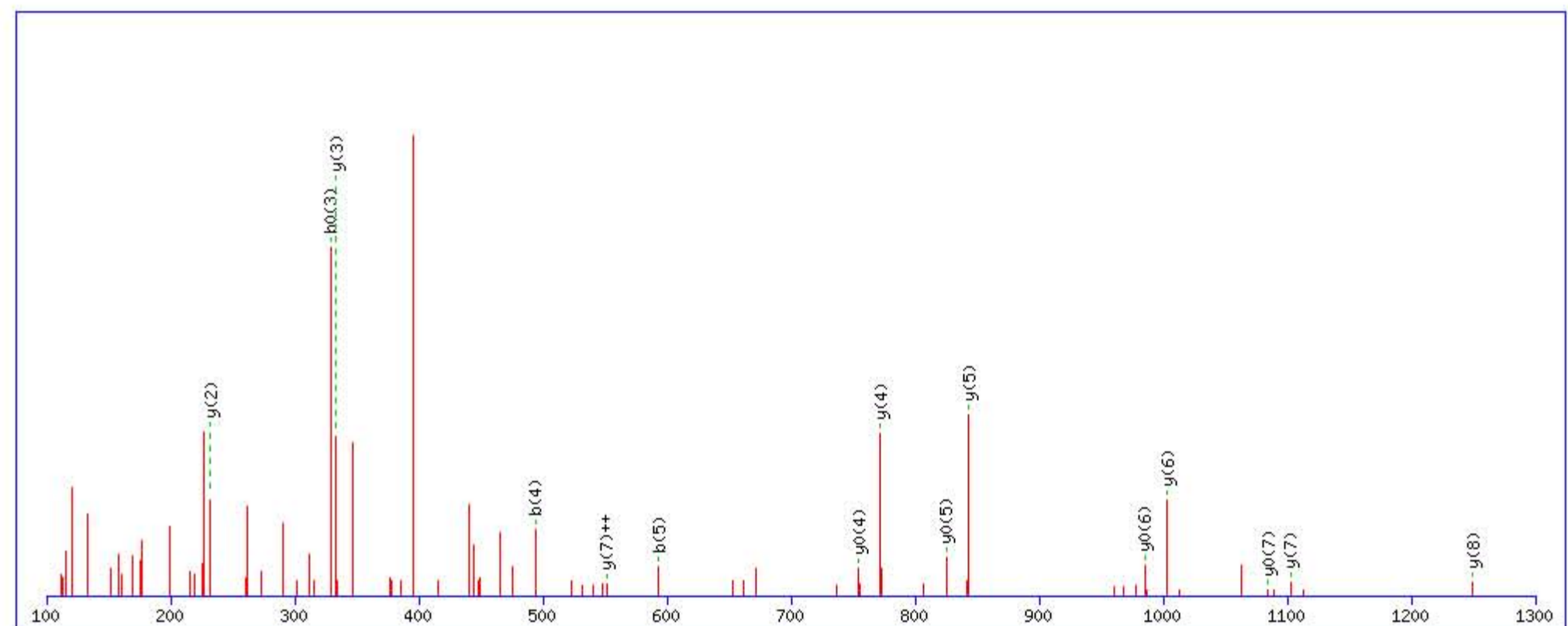
Title: Locus:1.1.1.3193.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1594.705460

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

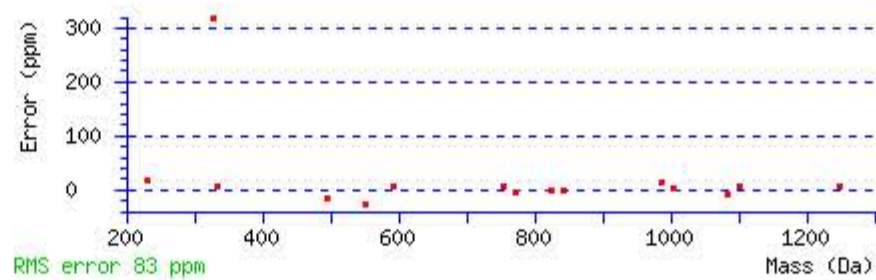
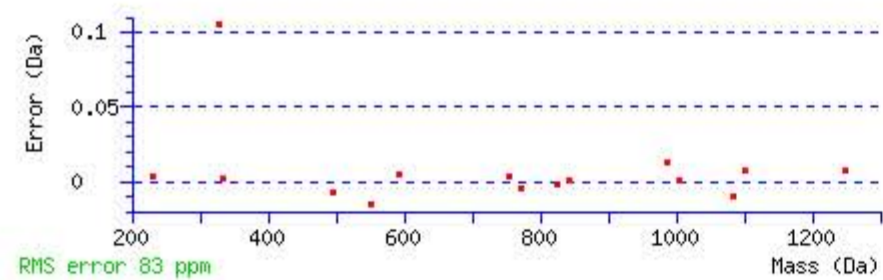
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 31 Expect: 0.0048

Matches : 15/100 fragment ions using 32 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	161.037925	81.022600					C							11
2	290.080518	145.543897			272.069953	136.538615	E	1435.682069	718.344673	1418.655520	709.831398	1417.671504	709.339390	10
3	347.101982	174.054629			329.091417	165.049347	G	1306.639476	653.823376	1289.612927	645.310102	1288.628911	644.818094	9
4	494.170396	247.588836			476.159831	238.583554	F	1249.618012	625.312644	1232.591463	616.799370	1231.607447	616.307361	8
5	593.238810	297.123043			575.228245	288.117761	V	1102.549598	551.778437	1085.523049	543.265162	1084.539033	542.773154	7
6	753.269459	377.138368			735.258894	368.133085	C	1003.481184	502.244230	986.454635	493.730955	985.470619	493.238947	6
7	824.306573	412.656925			806.296008	403.651642	A	843.450535	422.228906	826.423986	413.715631	825.439970	413.223623	5
8	1263.531899	632.269588	1246.505350	623.756313	1245.521334	623.264305	Q	772.413421	386.710349	755.386872	378.197074	754.402856	377.705066	4
9	1364.579578	682.793427	1347.553029	674.280153	1346.569013	673.788145	T	333.188095	167.097685	316.161546	158.584411	315.177530	158.092403	3
10	1421.601042	711.304159	1404.574493	702.790885	1403.590477	702.298877	G	232.140416	116.573846	215.113867	108.060571			2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [CEGFVCAQTGR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
30.7	1594.705460	-0.003458	<a href="#">CEGFVCAQTGR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **IPGIFELGISSQSDR**

Found in **CO8B\_HUMAN**, Complement component C8 beta chain OS=Homo sapiens GN=C8B PE=1 SV=3

Match to Query 37963: 1929.009162 from(644.010330,3+) rtinseconds(2703) index(23017)

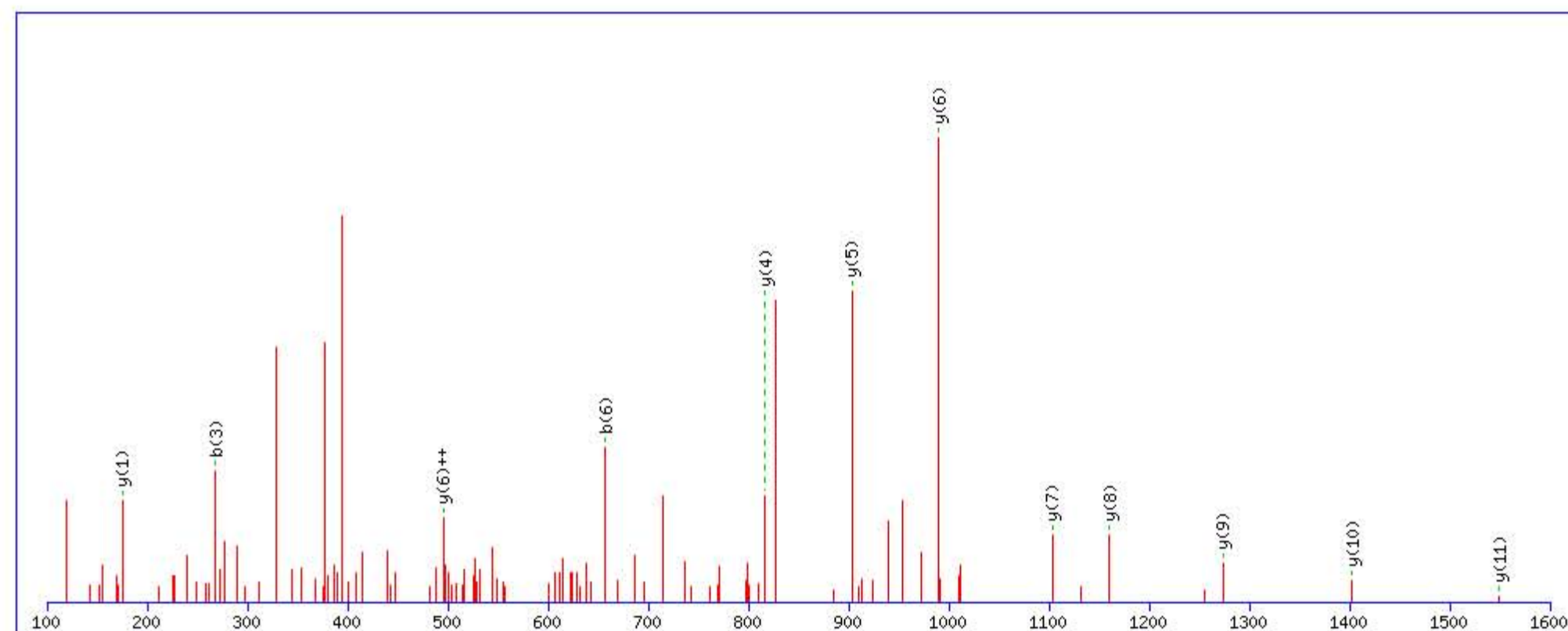
Title: Locus:1.1.1.3506.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1929.002975

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

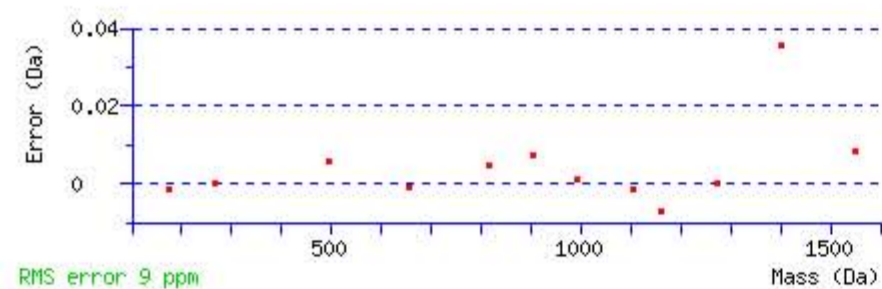
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

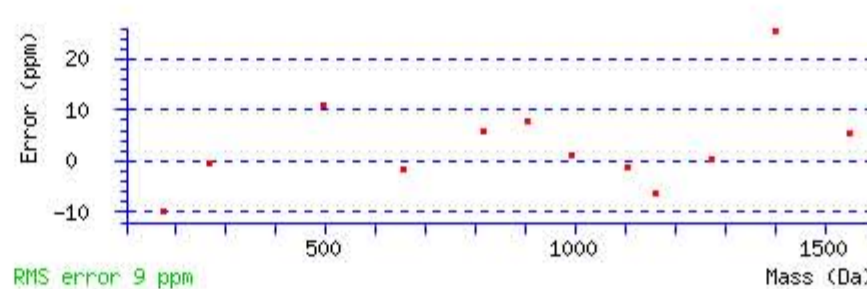
Ions Score: 78 Expect: 1.7e-007

Matches : 12/134 fragment ions using 14 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							15
2	211.144104	106.075690					P	1816.926196	908.966736	1799.899647	900.453462	1798.915631	899.961454	14
3	<b>268.165568</b>	134.586422					G	1719.873432	860.440354	1702.846883	851.927080	1701.862867	851.435072	13
4	381.249632	191.128454					I	1662.851968	831.929622	1645.825419	823.416348	1644.841403	822.924340	12
5	528.318046	264.662661					F	<b>1549.767904</b>	775.387590	1532.741355	766.874316	1531.757339	766.382308	11
6	<b>657.360639</b>	329.183958			639.350074	320.178675	E	<b>1402.699490</b>	701.853383	1385.672941	693.340109	1384.688925	692.848101	10
7	770.444703	385.725990			752.434138	376.720707	L	<b>1273.656897</b>	637.332087	1256.630348	628.818812	1255.646332	628.326804	9
8	827.466167	414.236722			809.455602	405.231439	G	<b>1160.572833</b>	580.790055	1143.546284	572.276780	1142.562268	571.784772	8
9	940.550231	470.778754			922.539666	461.773471	I	<b>1103.551369</b>	552.279323	1086.524820	543.766048	1085.540804	543.274040	7
10	1027.582259	514.294768			1009.571694	505.289485	S	<b>990.467305</b>	<b>495.737291</b>	973.440756	487.224016	972.456740	486.732008	6
11	1114.614287	557.810782			1096.603722	548.805499	S	<b>903.435277</b>	452.221277	886.408728	443.708002	885.424712	443.215994	5
12	1553.839613	777.423445	1536.813064	768.910170	1535.829048	768.418162	Q	<b>816.403249</b>	408.705263	799.376700	400.191988	798.392684	399.699980	4
13	1640.871641	820.939459	1623.845092	812.426184	1622.861076	811.934176	S	377.177923	189.092600	360.151374	180.579325	359.167358	180.087317	3
14	1755.898584	878.452930	1738.872035	869.939656	1737.888019	869.447648	D	290.145895	145.576585	273.119346	137.063311	272.135330	136.571303	2
15							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



RMS error 9 ppm



RMS error 9 ppm

NCBI BLAST search of [IPGIFELGISSQSDR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
78.1	1929.002975	0.006187	<a href="#">IPGIFELGISSQSDR</a>
5.6	1928.996445	0.012717	<a href="#">QCQVILNFLAAEGR</a>
1.8	1929.020721	-0.011559	<a href="#">RELEELSVGSDGVLIVK</a>
1.7	1929.018219	-0.009057	<a href="#">LPEFLVQLYSYMRVR</a>
0.1	1929.012833	-0.003671	<a href="#">EMEERTITIEIPEVLK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **KPYNVESYTPQTQ GK**

Found in **CO8B\_HUMAN**, Complement component C8 beta chain OS=Homo sapiens GN=C8B PE=1 SV=3

Match to Query 40856: 2050.007952 from(684.343260,3+) rtinseconds(1636) index(16749)

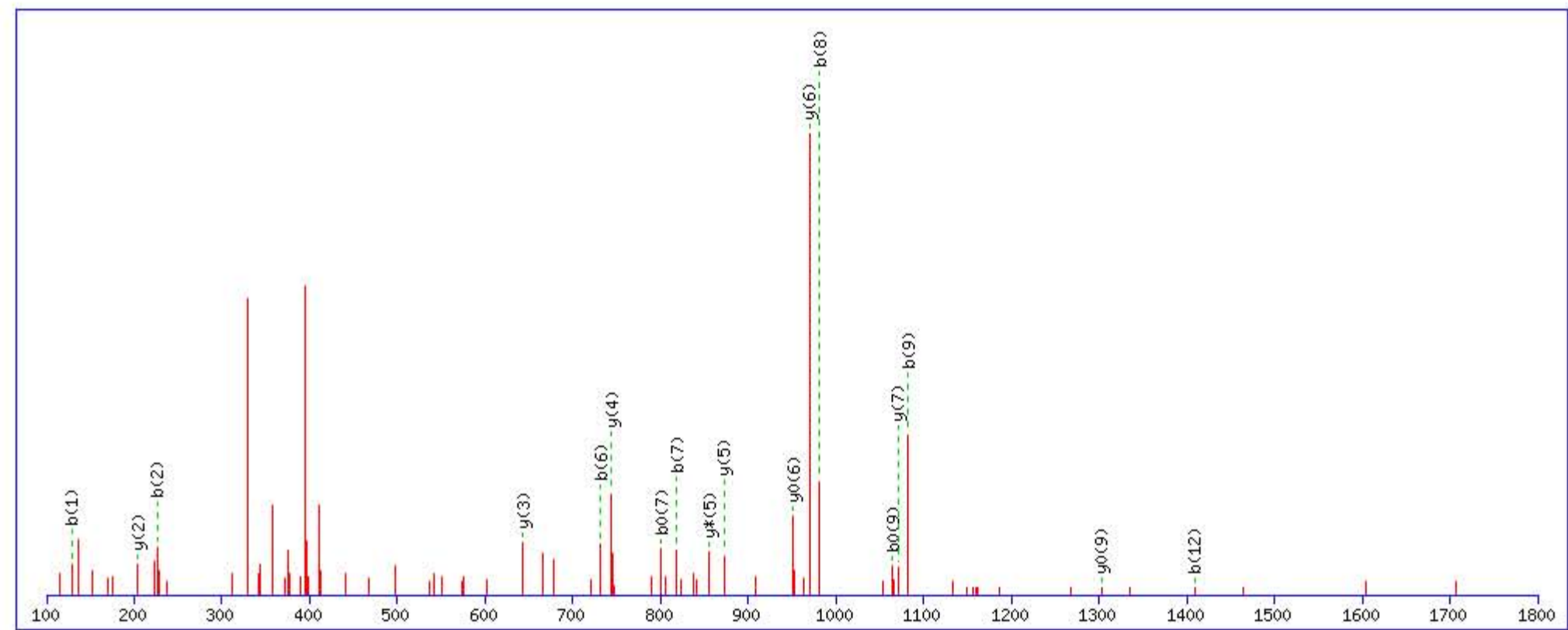
Title: Locus:1.1.1.3135.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 100 to 1800 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2050.019348

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

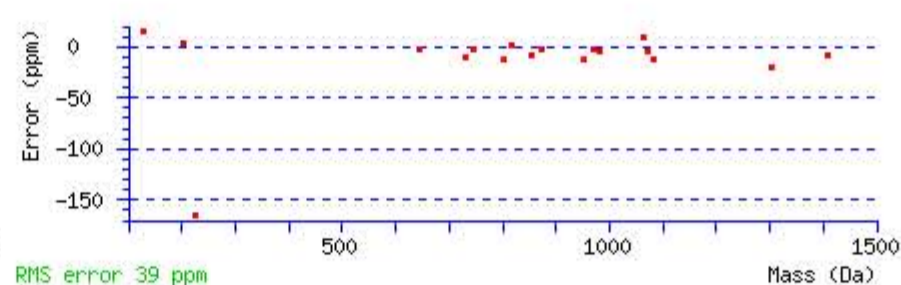
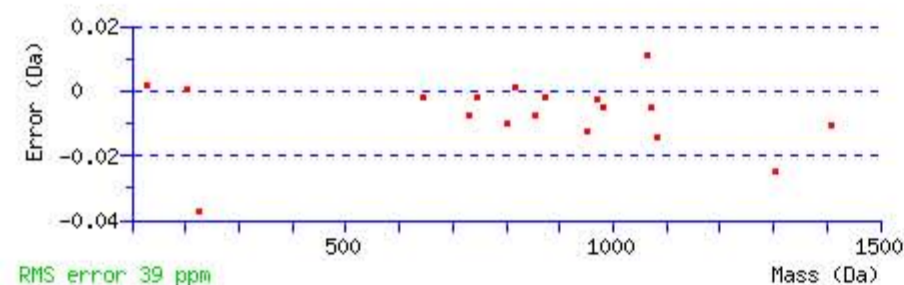
Variable modifications:

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.001

Matches : 18/152 fragment ions using 40 most intense peaks (help)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.102239	65.054757	112.075690	56.541483			K							15
2	226.155003	113.581139	209.128454	105.067865			P	1922.931678	961.969477	1905.905129	953.456203	1904.921113	952.964195	14
3	389.218332	195.112804	372.191783	186.599529			Y	1825.878914	913.443095	1808.852365	904.929821	1807.868349	904.437813	13
4	503.261259	252.134267	486.234710	243.620993			N	1662.815585	831.911431	1645.789036	823.398156	1644.805020	822.906148	12
5	602.329673	301.668475	585.303124	293.155200			V	1548.772658	774.889967	1531.746109	766.376693	1530.762093	765.884685	11
6	731.372266	366.189771	714.345717	357.676497	713.361701	357.184489	E	1449.704244	725.355760	1432.677695	716.842486	1431.693679	716.350478	10
7	818.404294	409.705785	801.377745	401.192511	800.393729	400.700503	S	1320.661651	660.834464	1303.635102	652.321189	1302.651086	651.829181	9
8	981.467623	491.237450	964.441074	482.724175	963.457058	482.232167	Y	1233.629623	617.318450	1216.603074	608.805175	1215.619058	608.313167	8
9	1082.515302	541.761289	1065.488753	533.248015	1064.504737	532.756007	T	1070.566294	535.786785	1053.539745	527.273511	1052.555729	526.781503	7
10	1179.568066	590.287671	1162.541517	581.774397	1161.557501	581.282389	P	969.518615	485.262946	952.492066	476.749671	951.508050	476.257663	6
11	1307.626644	654.316960	1290.600095	645.803686	1289.616079	645.311678	Q	872.465851	436.736564	855.439302	428.223289	854.455286	427.731281	5
12	1408.674323	704.840800	1391.647774	696.327525	1390.663758	695.835517	T	744.407273	372.707275	727.380724	364.194000	726.396708	363.701992	4
13	1847.899649	924.453463	1830.873100	915.940188	1829.889084	915.448180	Q	643.359594	322.183435	626.333045	313.670161			3
14	1904.921113	952.964195	1887.894564	944.450920	1886.910548	943.958912	G	204.134268	102.570772	187.107719	94.057497			2
15							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **KPYNVESYTPQTQ GK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
33.1	2050.019348	-0.011396	<a href="#">KPYNVESYTPQTQ GK</a>
17.6	2050.019348	-0.011396	<a href="#">KPYNVESYTPQTQ GK</a>
1.3	2050.026566	-0.018614	<a href="#">LFVGM LNKQQSEDDVRR</a>
1.1	2050.033966	-0.026014	<a href="#">QTVMF TATMPPAVERLAR</a>

# MASCOT Search Results

## Peptide View

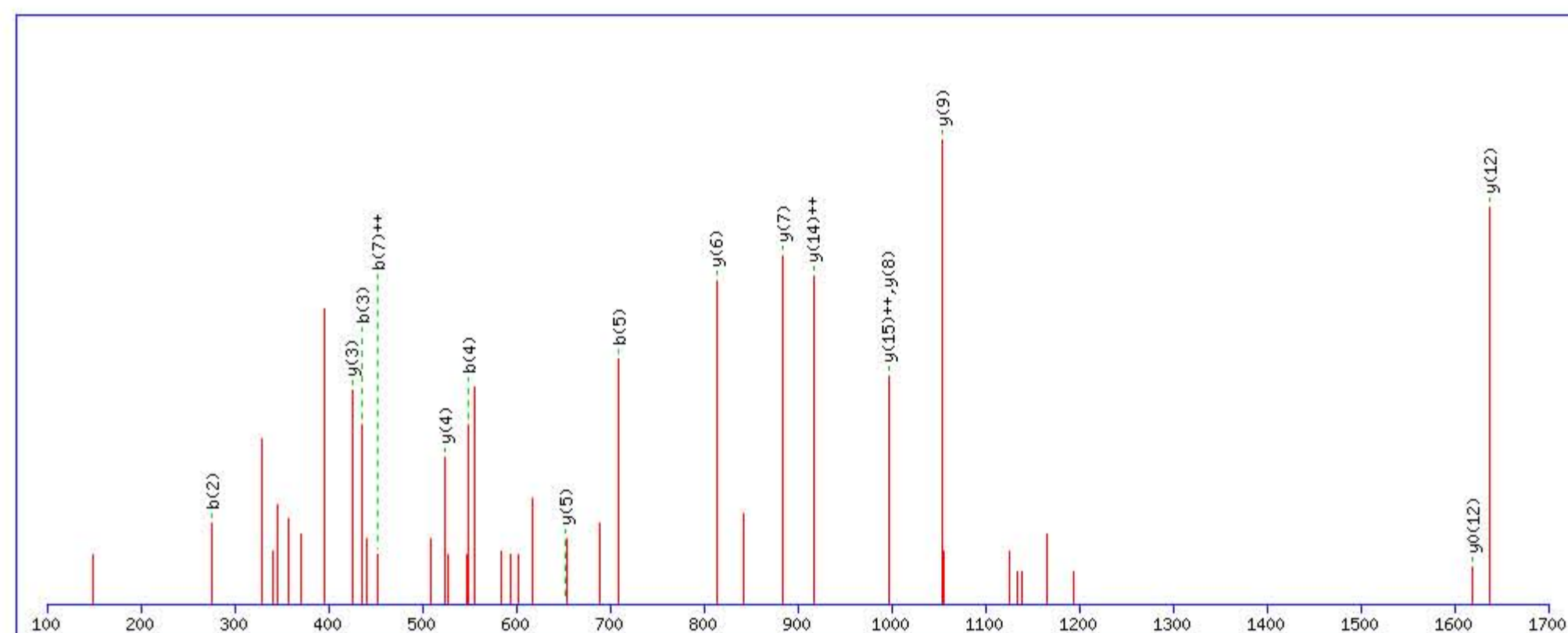
MS/MS Fragmentation of **CDCICPVGSQGLACEVSYR**  
 Found in **CO8B\_HUMAN**, Complement component C8 beta chain OS=Homo sapiens GN=C8B PE=1 SV=3

Match to Query 48965: 2541.097872 from(848.039900,3+) rtinseconds(2185) index(20159)  
 Title: Locus:1.1.1.3326.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

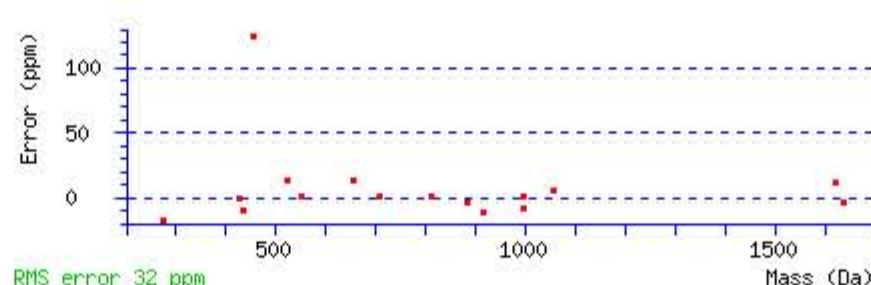
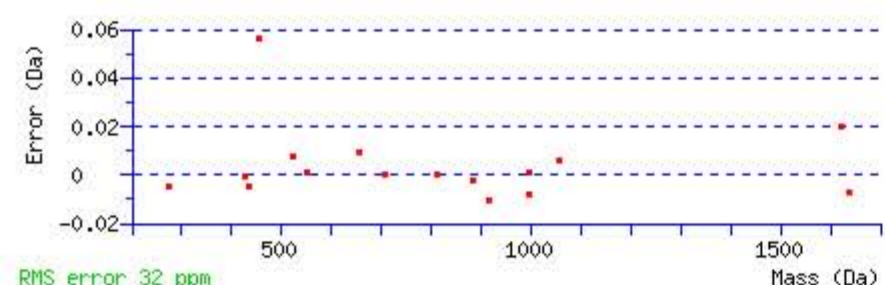
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2541.094299  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q10 : Biotin:Thermo-21345 (Q)  
 Ions Score: 37 Expect: 0.00075  
 Matches : 16/192 fragment ions using 30 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	161.037925	81.022600					C							19
2	<b>276.064868</b>	138.536072			258.054303	129.530790	D	2382.070908	1191.539092	2365.044359	1183.025817	2364.060343	1182.533809	18
3	<b>436.095517</b>	218.551397			418.084952	209.546114	C	2267.043965	1134.025620	2250.017416	1125.512346	2249.033400	1125.020338	17
4	<b>549.179581</b>	275.093429			531.169016	266.088146	I	2107.013316	1054.010296	2089.986767	1045.497021	2089.002751	1045.005013	16
5	<b>709.210230</b>	355.108753			691.199665	346.103471	C	1993.929252	<b>997.468264</b>	1976.902703	988.954990	1975.918687	988.462982	15
6	806.262994	403.635135			788.252429	394.629853	P	1833.898603	<b>917.452940</b>	1816.872054	908.939665	1815.888038	908.447657	14
7	905.331408	<b>453.169342</b>			887.320843	444.164060	V	1736.845839	868.926558	1719.819290	860.413283	1718.835274	859.921275	13
8	962.352872	481.680074			944.342307	472.674792	G	<b>1637.777425</b>	819.392351	1620.750876	810.879076	<b>1619.766860</b>	810.387068	12
9	1049.384900	525.196088			1031.374335	516.190806	S	1580.755961	790.881619	1563.729412	782.368344	1562.745396	781.876336	11
10	1488.610226	744.808751	1471.583677	736.295477	1470.599661	735.803469	Q	1493.723933	747.365605	1476.697384	738.852330	1475.713368	738.360322	10
11	1545.631690	773.319483	1528.605141	764.806209	1527.621125	764.314201	G	<b>1054.498607</b>	527.752941	1037.472058	519.239667	1036.488042	518.747659	9
12	1658.715754	829.861515	1641.689205	821.348241	1640.705189	820.856233	L	<b>997.477143</b>	499.242209	980.450594	490.728935	979.466578	490.236927	8
13	1729.752868	865.380072	1712.726319	856.866798	1711.742303	856.374790	A	<b>884.393079</b>	442.700178	867.366530	434.186903	866.382514	433.694895	7
14	1889.783517	945.395397	1872.756968	936.882122	1871.772952	936.390114	C	<b>813.355965</b>	407.181621	796.329416	398.668346	795.345400	398.176338	6
15	2018.826110	1009.916693	2001.799561	1001.403419	2000.815545	1000.911411	E	<b>653.325316</b>	327.166296	636.298767	318.653021	635.314751	318.161013	5
16	2117.894524	1059.450900	2100.867975	1050.937625	2099.883959	1050.445617	V	<b>524.282723</b>	262.645000	507.256174	254.131725	506.272158	253.639717	4
17	2204.926552	1102.966914	2187.900003	1094.453639	2186.915987	1093.961631	S	<b>425.214309</b>	213.110793	408.187760	204.597518	407.203744	204.105510	3
18	2367.989881	1184.498578	2350.963332	1175.985304	2349.979316	1175.493296	Y	338.182281	169.594778	321.155732	161.081504			2
19							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **CDCICPVGSQGLACEVSYR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
37.2	2541.094299	0.003573	<a href="#">CDCICPVGSQGLACEVSYR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **FLQEQGHR**

Found in **CO8G\_HUMAN**, Complement component C8 gamma chain OS=Homo sapiens GN=C8G PE=1 SV=3

Match to Query 20787: 1324.666948 from(663.340750,2+) rtinseconds(1541) index(16123)

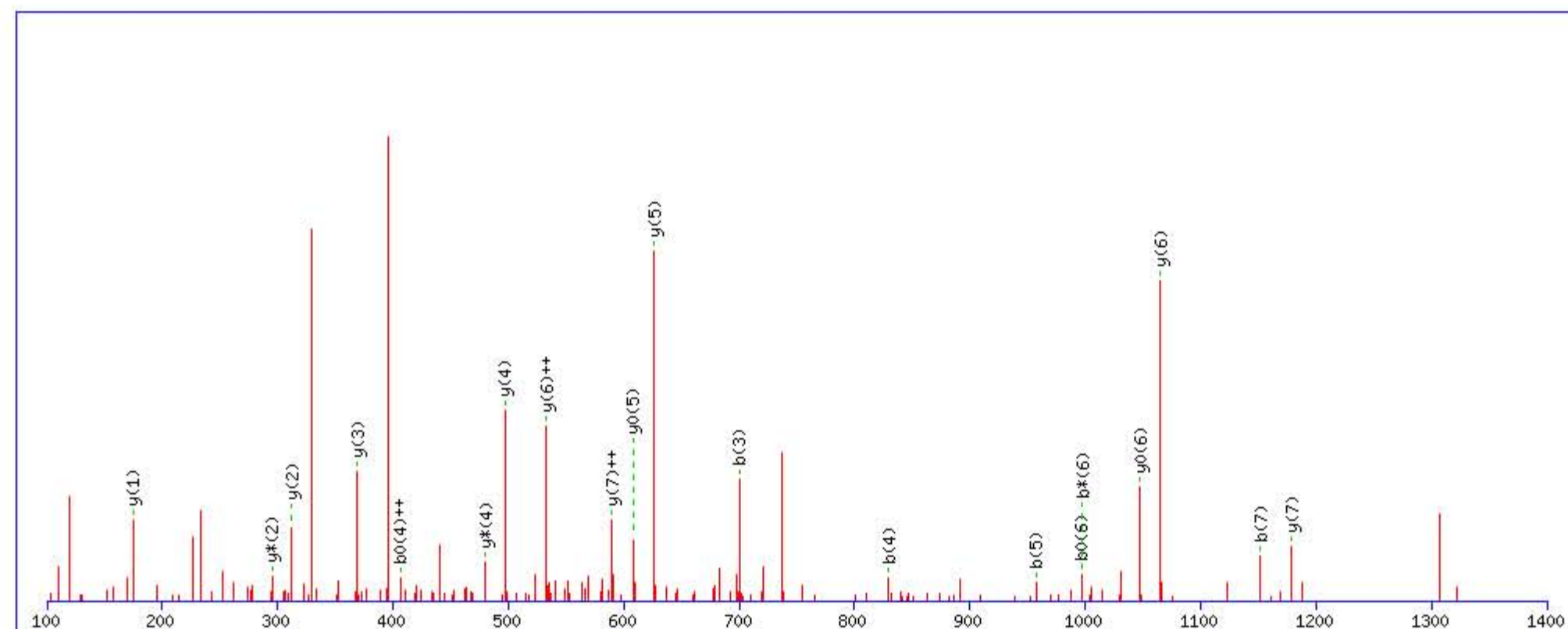
Title: Locus:1.1.1.3102.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1324.671021

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

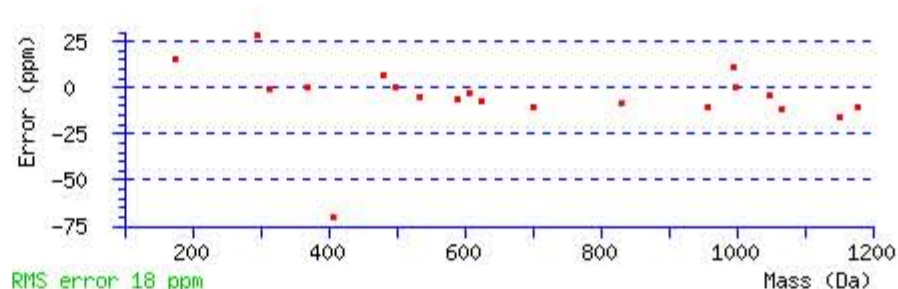
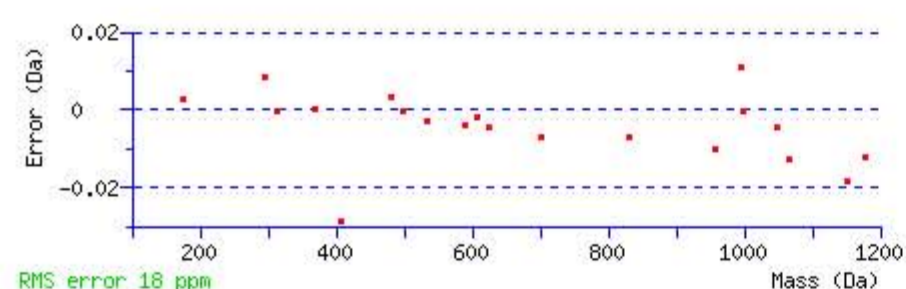
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.0063

Matches : 20/66 fragment ions using 46 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							8
2	261.159754	131.083515					L	<b>1178.609889</b>	<b>589.808583</b>	1161.583340	581.295308	1160.599324	580.803300	7
3	<b>700.385080</b>	350.696178	683.358531	342.182904			Q	<b>1065.525825</b>	<b>533.266551</b>	1048.499276	524.753276	<b>1047.515260</b>	524.261268	6
4	<b>829.427673</b>	415.217475	812.401124	406.704200	811.417108	<b>406.212192</b>	E	<b>626.300499</b>	313.653888	609.273950	305.140613	<b>608.289934</b>	304.648605	5
5	<b>957.486251</b>	479.246764	940.459702	470.733489	939.475686	470.241481	Q	<b>497.257906</b>	249.132591	<b>480.231357</b>	240.619317			4
6	1014.507715	507.757496	<b>997.481166</b>	499.244221	<b>996.497150</b>	498.752213	G	<b>369.199328</b>	185.103302	352.172779	176.590028			3
7	<b>1151.566627</b>	576.286952	1134.540078	567.773677	1133.556062	567.281669	H	<b>312.177864</b>	156.592570	<b>295.151315</b>	148.079296			2
8							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **FLQEQGHR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
32.7	1324.671021	-0.004073	<a href="#">FLQEQGHR</a>
10.2	1324.671021	-0.004073	<a href="#">FLQEQGHR</a>
8.7	1324.669647	-0.002699	<a href="#">MKEIAEAYLGK</a>
8.1	1324.663605	0.003343	<a href="#">RLDWEGKEHR</a>
3.4	1324.663620	0.003328	<a href="#">SKSHEFQLGHR</a>
2.6	1324.647888	0.019060	<a href="#">LMKSAIGEGMTR</a>
1.5	1324.684753	-0.017805	<a href="#">VLVGDRNDNAPR</a>
0.9	1324.680908	-0.013960	<a href="#">FIASGMDRSLK</a>

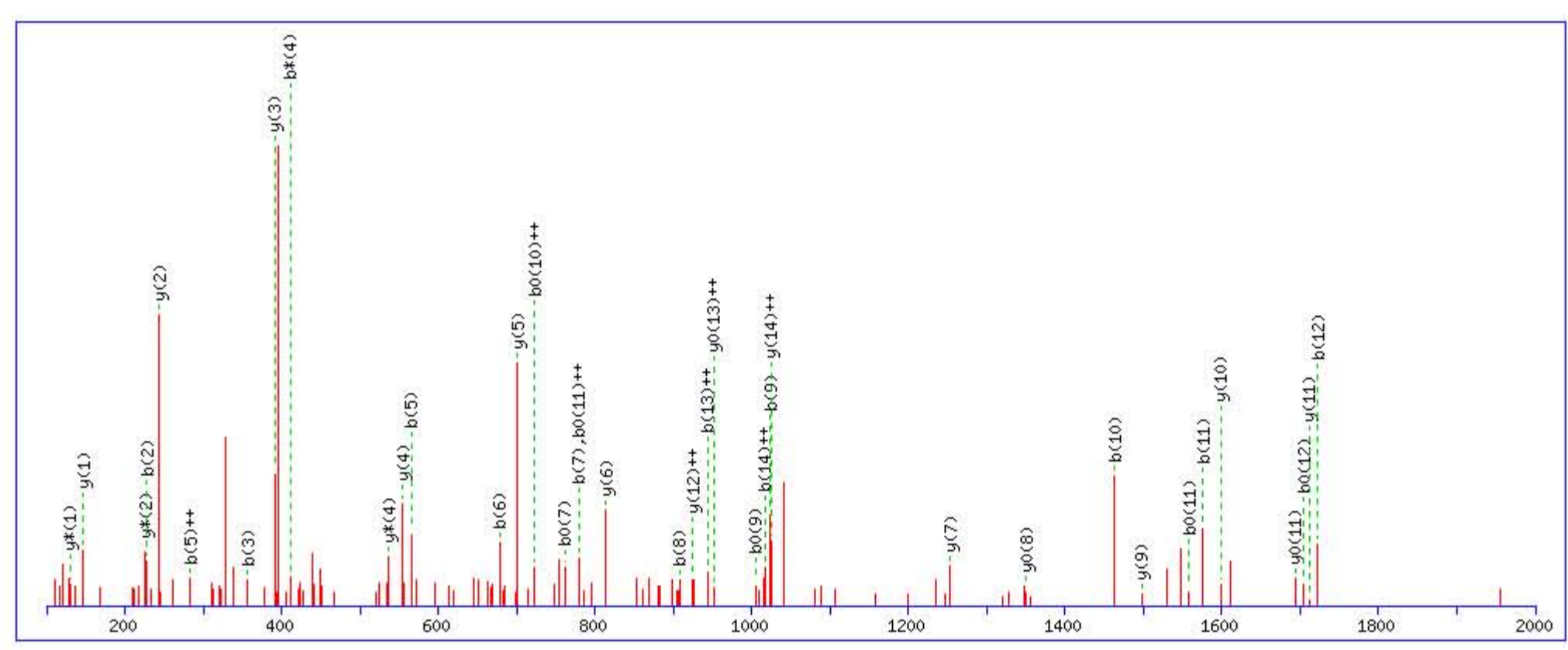
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VQEAHLTEDQIFYFPK**  
 Found in **CO8G\_HUMAN**, Complement component C8 gamma chain OS=Homo sapiens GN=C8G PE=1 SV=3

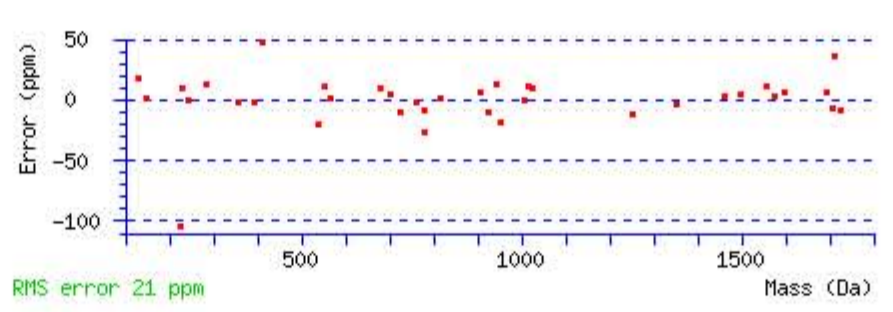
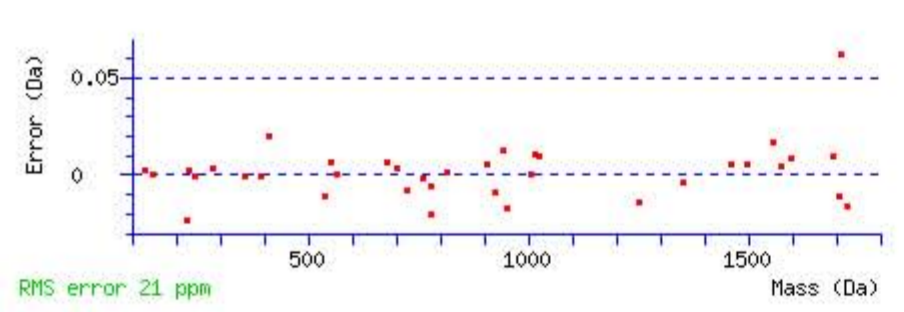
Match to Query 27818: 2275.127052 from(759.382960,3+) rtinseconds(2374) index(33934)  
 Title: Locus:1.1.1.3490.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2275.134720  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q10 : Biotin:Thermo-21345 (Q)  
 Ions Score: 43 Expect: 0.00016  
 Matches : 38/160 fragment ions using 86 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							16
2	<b>228.134268</b>	114.570772	211.107719	106.057498			Q	2177.073591	1089.040433	2160.047042	1080.527159	2159.063026	1080.035151	15
3	<b>357.176861</b>	179.092069	340.150312	170.578794	339.166296	170.086786	E	2049.015013	<b>1025.011144</b>	2031.988464	1016.497870	2031.004448	1016.005862	14
4	428.213975	214.610626	<b>411.187426</b>	206.097351	410.203410	205.605343	A	1919.972420	960.489848	1902.945871	951.976573	1901.961855	<b>951.484565</b>	13
5	<b>565.272887</b>	<b>283.140082</b>	548.246338	274.626807	547.262322	274.134799	H	1848.935306	<b>924.971291</b>	1831.908757	916.458016	1830.924741	915.966008	12
6	<b>678.356951</b>	339.682114	661.330402	331.168839	660.346386	330.676831	L	<b>1711.876394</b>	856.441835	1694.849845	847.928561	<b>1693.865829</b>	847.436552	11
7	<b>779.404630</b>	390.205953	762.378081	381.692679	<b>761.394065</b>	381.200671	T	<b>1598.792330</b>	799.899803	1581.765781	791.386529	1580.781765	790.894521	10
8	<b>908.447223</b>	454.727250	891.420674	446.213975	890.436658	445.721967	E	<b>1497.744651</b>	749.375963	1480.718102	740.862689	1479.734086	740.370681	9
9	<b>1023.474166</b>	512.240721	1006.447617	503.727447	<b>1005.463601</b>	503.235439	D	1368.702058	684.854667	1351.675509	676.341392	<b>1350.691493</b>	675.849384	8
10	<b>1462.699492</b>	731.853384	1445.672943	723.340110	1444.688927	<b>722.848101</b>	Q	<b>1253.675115</b>	627.341195	1236.648566	618.827921			7
11	<b>1575.783556</b>	788.395416	1558.757007	779.882141	<b>1557.772991</b>	<b>779.390133</b>	I	<b>814.449789</b>	407.728533	797.423240	399.215258			6
12	<b>1722.851970</b>	861.929623	1705.825421	853.416349	<b>1704.841405</b>	852.924340	F	<b>701.365725</b>	351.186501	684.339176	342.673226			5
13	1885.915299	<b>943.461288</b>	1868.888750	934.948013	1867.904734	934.456005	Y	<b>554.297311</b>	277.652294	<b>537.270762</b>	269.139019			4
14	2032.983713	<b>1016.995495</b>	2015.957164	1008.482220	2014.973148	1007.990212	F	<b>391.233982</b>	196.120629	374.207433	187.607354			3
15	2130.036477	1065.521876	2113.009928	1057.008602	2112.025912	1056.516594	P	<b>244.165568</b>	122.586422	<b>227.139019</b>	114.073147			2
16							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **VQEAHLTEDQIFYFPK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
42.7	2275.134720	-0.007668	<a href="#">VQEAHLTEDQIFYFPK</a>
19.9	2275.134720	-0.007668	<a href="#">VQEAHLTEDQIFYFPK</a>
2.1	2275.116302	0.010750	<a href="#">HTEQQESLDQK</a>
2.0	2275.160538	-0.033486	<a href="#">VLPYCWKGMTPEQQAIRK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **KLDGICWQVR**

Found in **CO8G\_HUMAN**, Complement component C8 gamma chain OS=Homo sapiens GN=C8G PE=1 SV=3

Match to Query 29936: 1584.826188 from(793.420370,2+) rtinseconds(2075) index(19456)

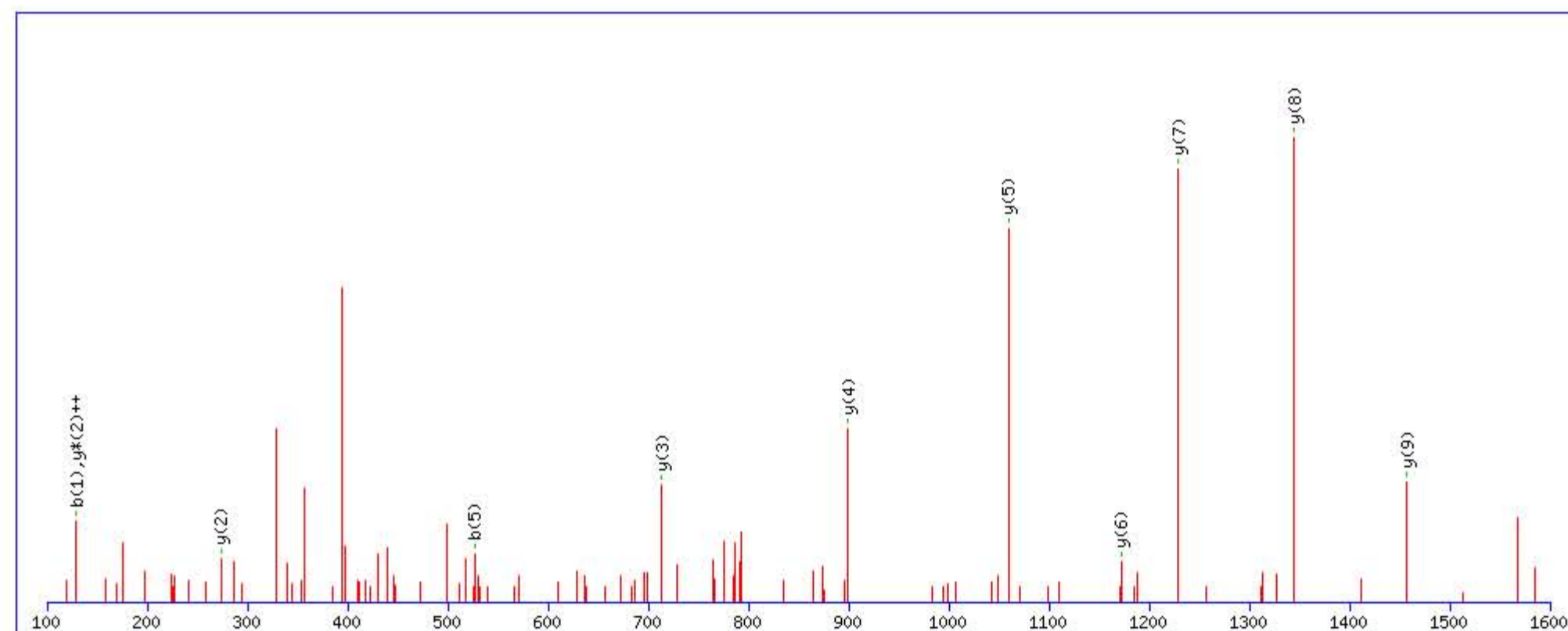
Title: Locus:1.1.1.3288.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1584.826874

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

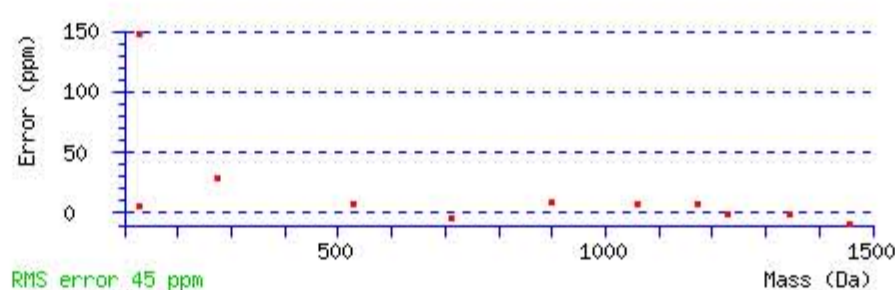
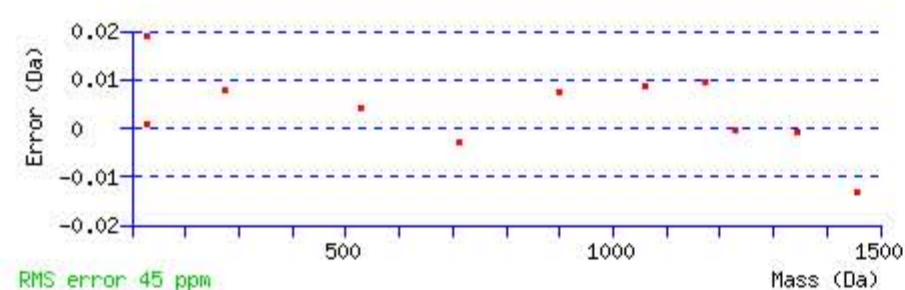
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 64 Expect: 3.9e-006

Matches : 11/90 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>129.102239</b>	65.054757	112.075690	56.541483			<b>K</b>							<b>10</b>
2	242.186303	121.596790	225.159754	113.083515			<b>L</b>	<b>1457.739189</b>	729.373233	1440.712640	720.859958	1439.728624	720.367950	<b>9</b>
3	357.213246	179.110261	340.186697	170.596987	339.202681	170.104979	<b>D</b>	<b>1344.655125</b>	672.831201	1327.628576	664.317926	1326.644560	663.825918	<b>8</b>
4	414.234710	207.620993	397.208161	199.107719	396.224145	198.615711	<b>G</b>	<b>1229.628182</b>	615.317729	1212.601633	606.804455			<b>7</b>
5	<b>527.318774</b>	264.163025	510.292225	255.649751	509.308209	255.157743	<b>I</b>	<b>1172.606718</b>	586.806997	1155.580169	578.293723			<b>6</b>
6	687.349423	344.178350	670.322874	335.665075	669.338858	335.173067	<b>C</b>	<b>1059.522654</b>	530.264965	1042.496105	521.751691			<b>5</b>
7	873.428736	437.218006	856.402187	428.704732	855.418171	428.212724	<b>W</b>	<b>899.492005</b>	450.249641	882.465456	441.736366			<b>4</b>
8	1312.654062	656.830669	1295.627513	648.317395	1294.643497	647.825387	<b>Q</b>	<b>713.412692</b>	357.209984	696.386143	348.696710			<b>3</b>
9	1411.722476	706.364876	1394.695927	697.851602	1393.711911	697.359594	<b>V</b>	<b>274.187366</b>	137.597321	257.160817	<b>129.084047</b>			<b>2</b>
10							<b>R</b>	175.118952	88.063114	158.092403	79.549839			<b>1</b>



NCBI BLAST search of **KLDGICWQVR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
63.9	1584.826874	-0.000686	<a href="#">KLDGICWQVR</a>
5.9	1584.829346	-0.003158	<a href="#">GAEATETQAKLR</a>
4.1	1584.844620	-0.018432	<a href="#">KAQPKEVMFPPGTR</a>
3.7	1584.822845	0.003343	<a href="#">SQMSPQGLRVR</a>
2.9	1584.844620	-0.018432	<a href="#">LQSSGIQPAAFR</a>
2.7	1584.810730	0.015458	<a href="#">KVSPDPQKSSDIR</a>
2.0	1584.822830	0.003358	<a href="#">QLDQKCKQAR</a>
2.0	1584.822830	0.003358	<a href="#">QLDQKCKQAR</a>
1.9	1584.829346	-0.003158	<a href="#">QAESQINKQTK</a>
1.8	1584.841278	-0.015090	<a href="#">QLAWVGDGVVWSIR</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SLPVSDSVLSGFQQR**

Found in **CO8G\_HUMAN**, Complement component C8 gamma chain OS=Homo sapiens GN=C8G PE=1 SV=3

Match to Query 37977: 1930.982322 from(644.668050,3+) rtinseconds(2529) index(34830)

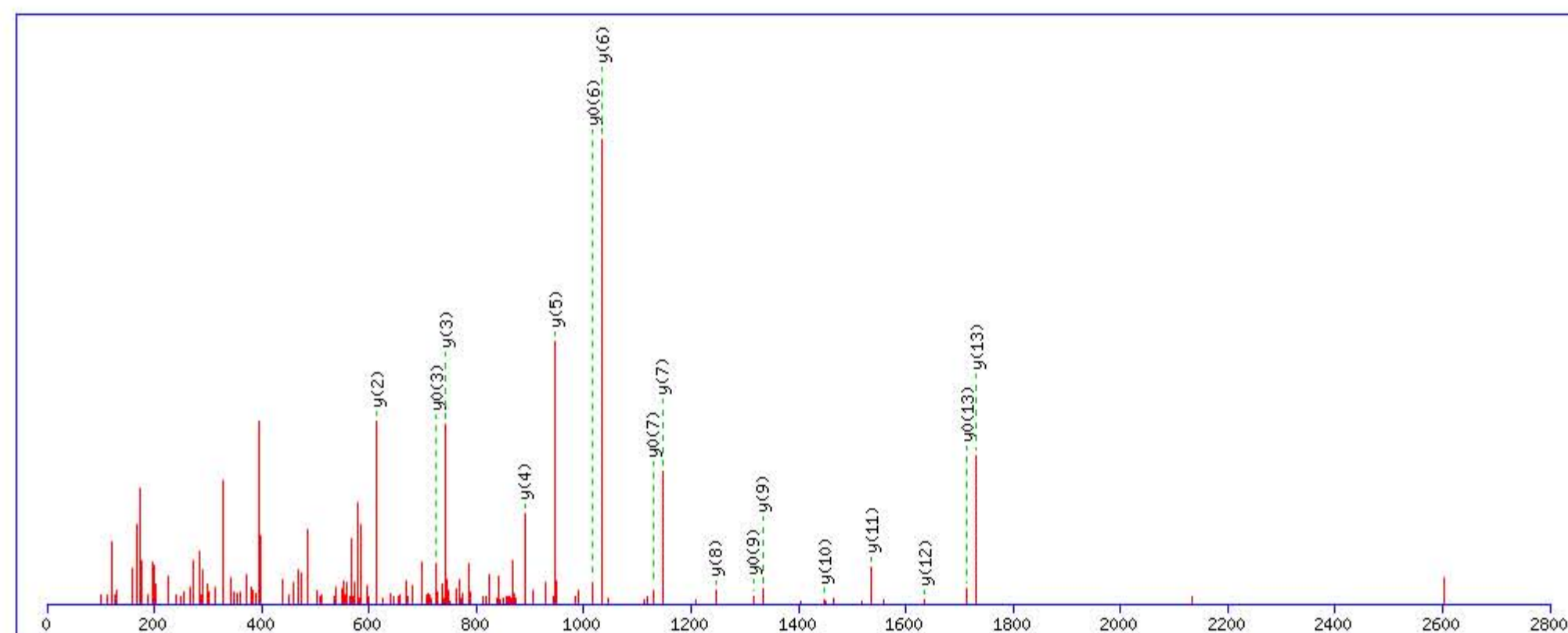
Title: Locus:1.1.1.3544.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1930.982254

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

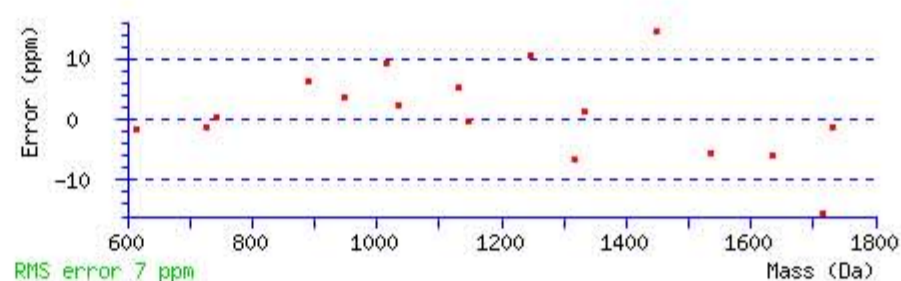
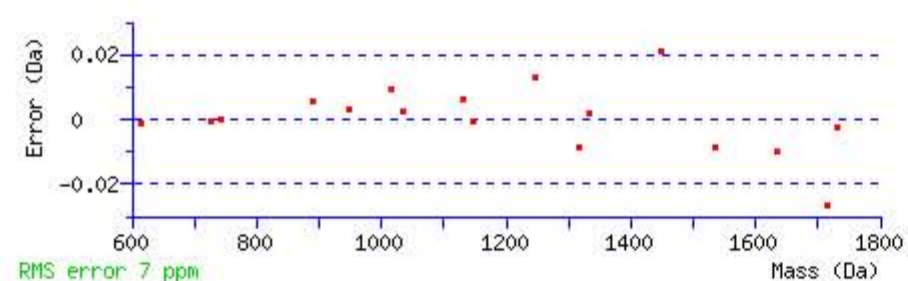
Variable modifications:

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 77 Expect: 5.9e-008

Matches : 17/138 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							15
2	201.123368	101.065322			183.112803	92.060039	L	1844.957496	922.982386	1827.930947	914.469112	1826.946931	913.977104	14
3	298.176132	149.591704			280.165567	140.586422	P	<b>1731.873432</b>	866.440354	1714.846883	857.927080	<b>1713.862867</b>	857.435072	13
4	397.244546	199.125911			379.233981	190.120629	V	<b>1634.820668</b>	817.913972	1617.794119	809.400698	1616.810103	808.908690	12
5	484.276574	242.641925			466.266009	233.636643	S	<b>1535.752254</b>	768.379765	1518.725705	759.866491	1517.741689	759.374483	11
6	599.303517	300.155397			581.292952	291.150114	D	<b>1448.720226</b>	724.863751	1431.693677	716.350477	1430.709661	715.858469	10
7	686.335545	343.671411			668.324980	334.666128	S	<b>1333.693283</b>	667.350280	1316.666734	658.837005	<b>1315.682718</b>	658.344997	9
8	785.403959	393.205618			767.393394	384.200335	V	<b>1246.661255</b>	623.834266	1229.634706	615.320991	1228.650690	614.828983	8
9	898.488023	449.747650			880.477458	440.742367	L	<b>1147.592841</b>	574.300059	1130.566292	565.786784	<b>1129.582276</b>	565.294776	7
10	985.520051	493.263664			967.509486	484.258381	S	<b>1034.508777</b>	517.758027	1017.482228	509.244752	<b>1016.498212</b>	508.752744	6
11	1042.541515	521.774395			1024.530950	512.769113	G	<b>947.476749</b>	474.242013	930.450200	465.728738	929.466184	465.236730	5
12	1189.609929	595.308603			1171.599364	586.303320	F	<b>890.455285</b>	445.731281	873.428736	437.218006	872.444720	436.725998	4
13	1318.652522	659.829899			1300.641957	650.824617	E	<b>743.386871</b>	372.197074	726.360322	363.683799	<b>725.376306</b>	363.191791	3
14	1757.877848	879.442562	1740.851299	870.929288	1739.867283	870.437280	Q	<b>614.344278</b>	307.675777	597.317729	299.162503			2
15							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SLPVSDSVLSGFQQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
77.4	1930.982254	0.000068	<a href="#">SLPVSDSVLSGFQQR</a>
0.2	1930.989410	-0.007088	<a href="#">EAQSQLIKSDEMQLRL</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **YGFCEAADQFHVLDEVR**

Found in **CO8G\_HUMAN**, Complement component C8 gamma chain OS=Homo sapiens GN=C8G PE=1 SV=3

Match to Query 45992: 2366.080182 from(789.700670,3+) rtinseconds(2578) index(35013)

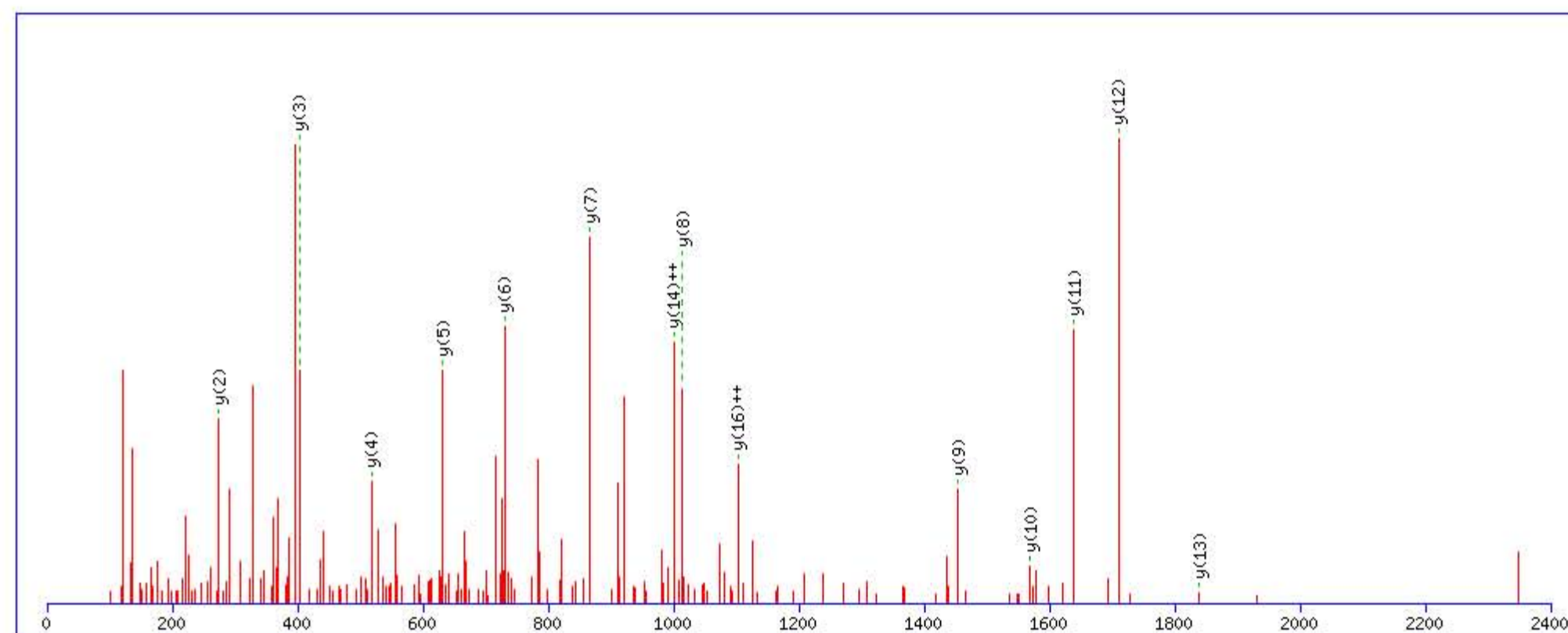
Title: Locus:1.1.1.3561.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2366.082382

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

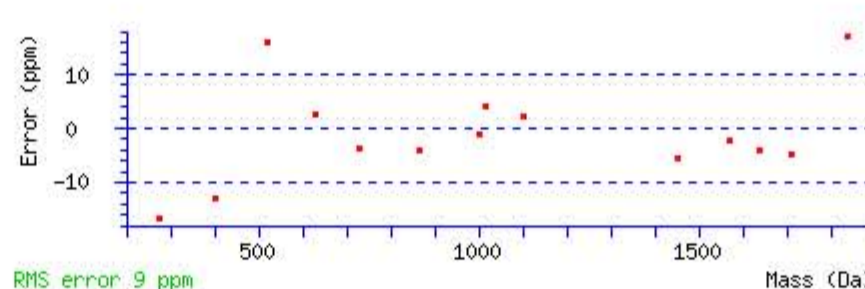
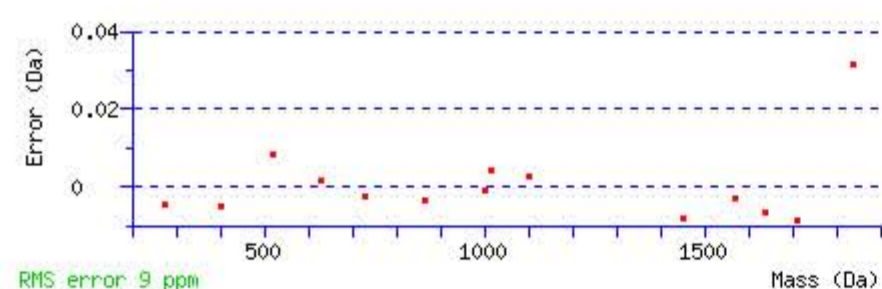
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 98 Expect: 1.8e-009

Matches : 14/164 fragment ions using 20 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							17
2	221.092069	111.049673					G	2204.026323	1102.516799	2186.999774	1094.003525	2186.015758	1093.511517	16
3	368.160483	184.583879					F	2147.004859	1074.006067	2129.978310	1065.492793	2128.994294	1065.000785	15
4	528.191132	264.599204					C	1999.936445	1000.471860	1982.909896	991.958586	1981.925880	991.466578	14
5	657.233725	329.120501			639.223160	320.115218	E	1839.905796	920.456536	1822.879247	911.943261	1821.895231	911.451253	13
6	728.270839	364.639058			710.260274	355.633775	A	1710.863203	855.935239	1693.836654	847.421965	1692.852638	846.929957	12
7	799.307953	400.157615			781.297388	391.152332	A	1639.826089	820.416682	1622.799540	811.903408	1621.815524	811.411400	11
8	914.334896	457.671086			896.324331	448.665803	D	1568.788975	784.898125	1551.762426	776.384851	1550.778410	775.892843	10
9	1353.560222	677.283749	1336.533673	668.770474	1335.549657	668.278466	Q	1453.762032	727.384654	1436.735483	718.871379	1435.751467	718.379371	9
10	1500.628636	750.817956	1483.602087	742.304682	1482.618071	741.812673	F	1014.536706	507.771991	997.510157	499.258717	996.526141	498.766709	8
11	1637.687548	819.347412	1620.660999	810.834138	1619.676983	810.342129	H	867.468292	434.237784	850.441743	425.724510	849.457727	425.232502	7
12	1736.755962	868.881619	1719.729413	860.368345	1718.745397	859.876336	V	730.409380	365.708328	713.382831	357.195054	712.398815	356.703046	6
13	1849.840026	925.423651	1832.813477	916.910376	1831.829461	916.418368	L	631.340966	316.174121	614.314417	307.660846	613.330401	307.168838	5
14	1964.866969	982.937122	1947.840420	974.423848	1946.856404	973.931840	D	518.256902	259.632089	501.230353	251.118815	500.246337	250.626807	4
15	2093.909562	1047.458419	2076.883013	1038.945144	2075.898997	1038.453136	E	403.229959	202.118617	386.203410	193.605343	385.219394	193.113335	3
16	2192.977976	1096.992626	2175.951427	1088.479351	2174.967411	1087.987343	V	274.187366	137.597321	257.160817	129.084046			2
17							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [YGFCEAADQFHVLDEVR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
98.0	2366.082382	-0.002200	<a href="#">YGFCEAADQFHVLDEVR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **TEHYEEQIEAFK**

Found in **CO9\_HUMAN**, Complement component C9 OS=Homo sapiens GN=C9 PE=1 SV=2

Match to Query 36368: 1833.857502 from(612.293110,3+) rtinseconds(1998) index(31866)

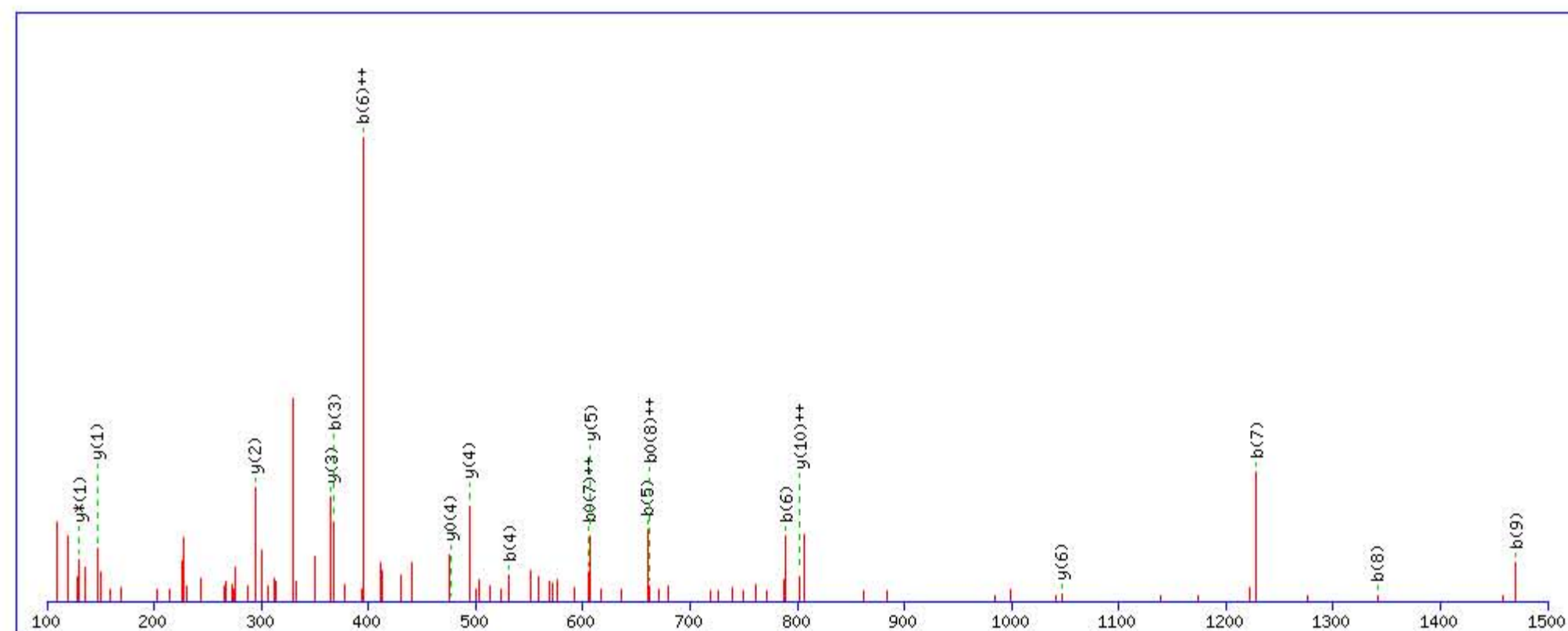
Title: Locus:1.1.1.3359.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1833.860703

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

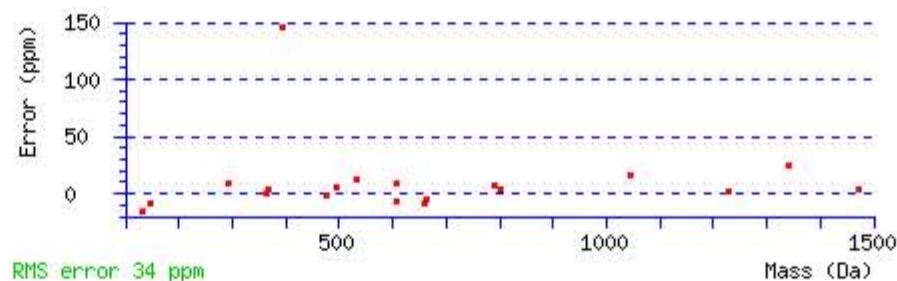
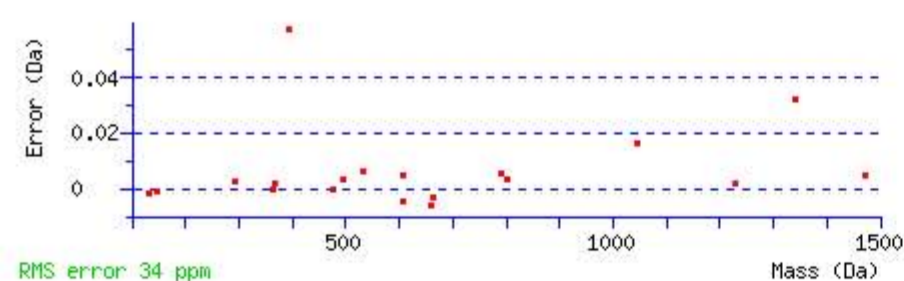
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 30 Expect: 0.018

Matches : 19/114 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							12
2	231.097548	116.052412			213.086983	107.047130	E	1733.820335	867.413805	1716.793786	858.900531	1715.809770	858.408523	11
3	<b>368.156460</b>	184.581868			350.145895	175.576585	H	1604.777742	<b>802.892509</b>	1587.751193	794.379235	1586.767177	793.887227	10
4	<b>531.219789</b>	266.113533			513.209224	257.108250	Y	1467.718830	734.363053	1450.692281	725.849779	1449.708265	725.357771	9
5	<b>660.262382</b>	330.634829			642.251817	321.629547	E	1304.655501	652.831389	1287.628952	644.318114	1286.644936	643.826106	8
6	<b>789.304975</b>	<b>395.156126</b>			771.294410	386.150843	E	1175.612908	588.310092	1158.586359	579.796817	1157.602343	579.304809	7
7	<b>1228.530301</b>	614.768789	1211.503752	606.255514	1210.519736	<b>605.763506</b>	Q	<b>1046.570315</b>	523.788795	1029.543766	515.275521	1028.559750	514.783513	6
8	<b>1341.614365</b>	671.310820	1324.587816	662.797546	1323.603800	<b>662.305538</b>	I	<b>607.344989</b>	304.176132	590.318440	295.662858	589.334424	295.170850	5
9	<b>1470.656958</b>	735.832117	1453.630409	727.318842	1452.646393	726.826834	E	<b>494.260925</b>	247.634100	477.234376	239.120826	<b>476.250360</b>	238.628818	4
10	1541.694072	771.350674	1524.667523	762.837399	1523.683507	762.345391	A	<b>365.218332</b>	183.112804	348.191783	174.599530			3
11	1688.762486	844.884881	1671.735937	836.371606	1670.751921	835.879598	F	<b>294.181218</b>	147.594247	277.154669	139.080973			2
12							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **TEHYEEQIEAFK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
29.8	1833.860703	-0.003201	<a href="#">TEHYEEQIEAFK</a>

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

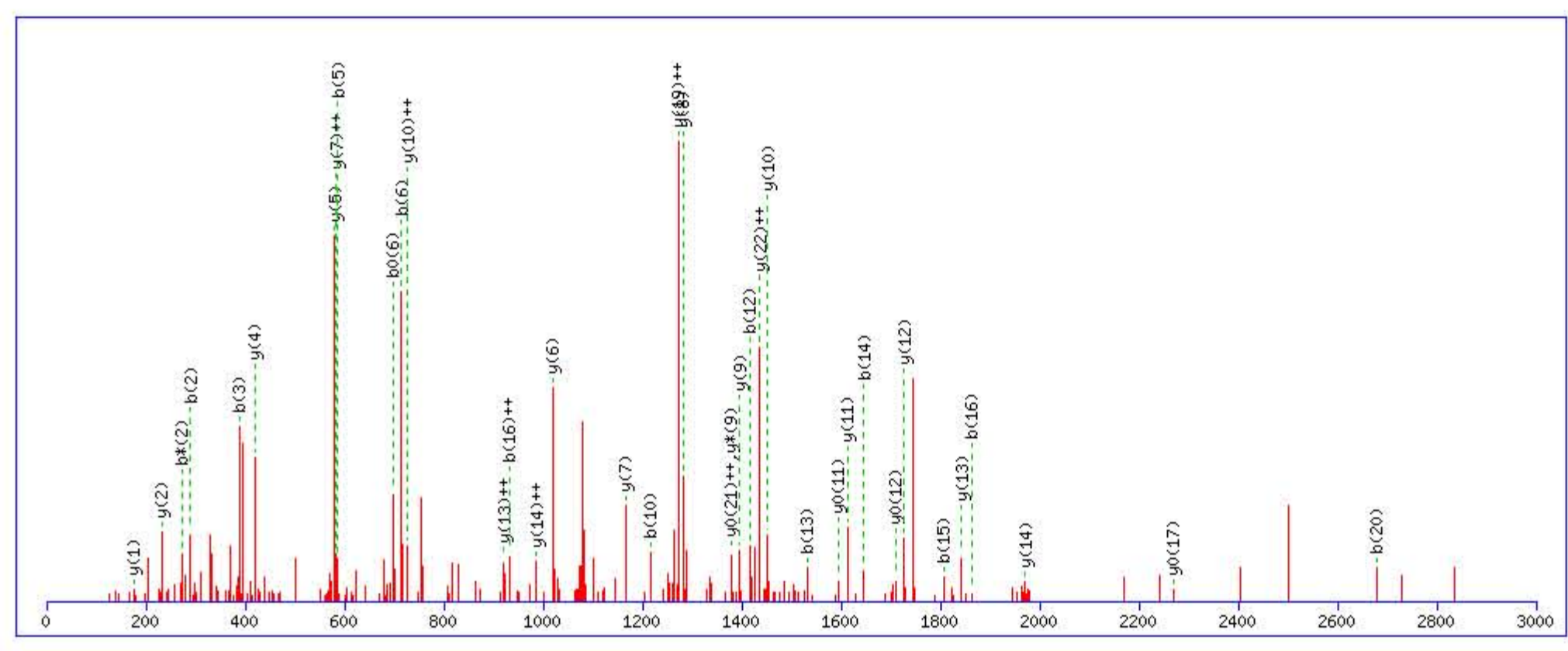
**Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **QCVPTPCEDAEDDCGNDFCSTGR**  
 Found in **CO9\_HUMAN**, Complement component C9 OS=Homo sapiens GN=C9 PE=1 SV=2

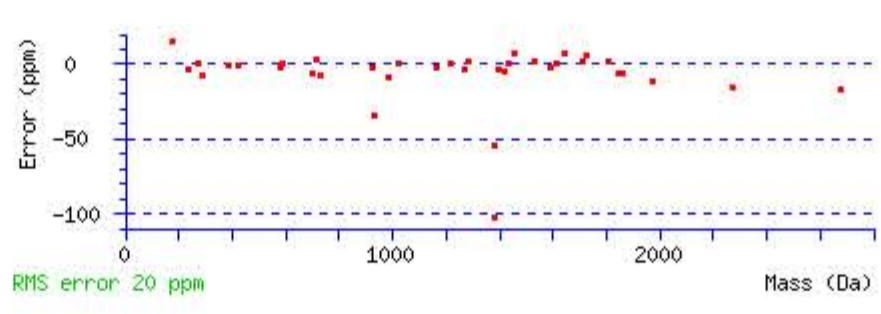
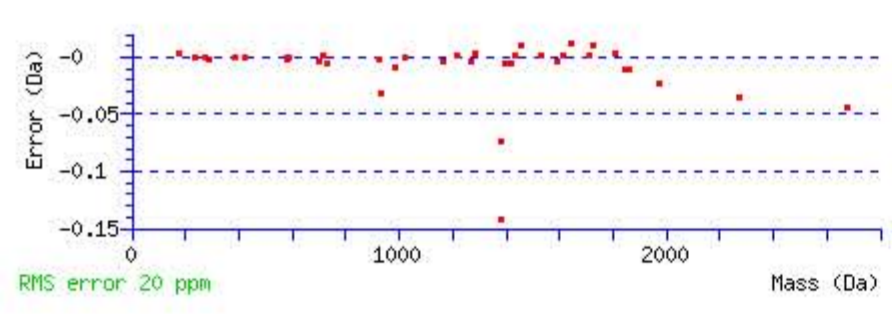
Match to Query 42742: 3257.230272 from(1086.750700,3+) rtinseconds(1887) index(31032)  
 Title: Locus:1.1.1.3320.25 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3257.246475  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q20 : Biotin:Thermo-21345 (Q)  
 Ions Score: 77 Expect: 2e-007  
 Matches : 38/276 fragment ions using 65 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.065854	65.036565	112.039305	56.523291			Q							25
2	<b>289.096503</b>	145.051890	<b>272.069954</b>	136.538615			C	3130.195136	1565.601206	3113.168587	1557.087931	3112.184571	1556.595923	24
3	<b>388.164917</b>	194.586097	371.138368	186.072822			V	2970.164487	1485.585881	2953.137938	1477.072607	2952.153922	1476.580599	23
4	485.217681	243.112479	468.191132	234.599204			P	2871.096073	<b>1436.051674</b>	2854.069524	1427.538400	2853.085508	1427.046392	22
5	<b>586.265360</b>	293.636318	569.238811	285.123044	568.254795	284.631036	T	2774.043309	1387.525292	2757.016760	1379.012018	2756.032744	<b>1378.520010</b>	21
6	<b>715.307953</b>	358.157615	698.281404	349.644340	<b>697.297388</b>	349.152332	E	2672.995630	1337.001453	2655.969081	1328.488178	2654.985065	1327.996170	20
7	812.360717	406.683997	795.334168	398.170722	794.350152	397.678714	P	2543.953037	<b>1272.480156</b>	2526.926488	1263.966882	2525.942472	1263.474874	19
8	972.391366	486.699321	955.364817	478.186047	954.380801	477.694039	C	2446.900273	1223.953774	2429.873724	1215.440500	2428.889708	1214.948492	18
9	1101.433959	551.220618	1084.407410	542.707343	1083.423394	542.215335	E	2286.869624	1143.938450	2269.843075	1135.425175	<b>2268.859059</b>	1134.933167	17
10	<b>1216.460902</b>	608.734089	1199.434353	600.220815	1198.450337	599.728807	D	2157.827031	1079.417153	2140.800482	1070.903879	2139.816466	1070.411871	16
11	1287.498016	644.252646	1270.471467	635.739372	1269.487451	635.247364	A	2042.800088	1021.903682	2025.773539	1013.390408	2024.789523	1012.898400	15
12	<b>1416.540609</b>	708.773943	1399.514060	700.260668	1398.530044	699.768660	E	<b>1971.762974</b>	<b>986.385125</b>	1954.736425	977.871851	1953.752409	977.379843	14
13	<b>1531.567552</b>	766.287414	1514.541003	757.774140	1513.556987	757.282132	D	<b>1842.720381</b>	<b>921.863828</b>	1825.693832	913.350554	1824.709816	912.858546	13
14	<b>1646.594495</b>	823.800886	1629.567946	815.287611	1628.583930	814.795603	D	<b>1727.693438</b>	864.350357	1710.666889	855.837082	<b>1709.682873</b>	855.345074	12
15	<b>1806.625144</b>	903.816210	1789.598595	895.302936	1788.614579	894.810928	C	<b>1612.666495</b>	806.836885	1595.639946	798.323611	<b>1594.655930</b>	797.831603	11
16	<b>1863.646608</b>	<b>932.326942</b>	1846.620059	923.813668	1845.636043	923.321660	G	<b>1452.635846</b>	<b>726.821561</b>	1435.609297	718.308286	1434.625281	717.816278	10
17	1977.689535	989.348406	1960.662986	980.835131	1959.678970	980.343123	N	<b>1395.614382</b>	698.310829	<b>1378.587833</b>	689.797554	1377.603817	689.305546	9
18	2092.716478	1046.861877	2075.689929	1038.348603	2074.705913	1037.856595	D	<b>1281.571455</b>	641.289365	1264.544906	632.776091	1263.560890	632.284083	8
19	2239.784892	1120.396084	2222.758343	1111.882809	2221.774327	1111.390802	F	<b>1166.544512</b>	<b>583.775894</b>	1149.517963	575.262619	1148.533947	574.770611	7
20	<b>2679.010218</b>	1340.008747	2661.983669	1331.495473	2660.999653	1331.003465	Q	<b>1019.476098</b>	510.241687	1002.449549	501.728412	1001.465533	501.236404	6
21	2839.040867	1420.024072	2822.014318	1411.510797	2821.030302	1411.018789	C	<b>580.250772</b>	290.629024	563.224223	282.115749	562.240207	281.623741	5
22	2926.072895	1463.540086	2909.046346	1455.026811	2908.062330	1454.534803	S	<b>420.220123</b>	210.613699	403.193574	202.100425	402.209558	201.608417	4
23	3027.120574	1514.063925	3010.094025	1505.550650	3009.110009	1505.058642	T	333.188095	167.097685	316.161546	158.584411	315.177530	158.092403	3
24	3084.142038	1542.574657	3067.115489	1534.061382	3066.131473	1533.569374	G	<b>232.140416</b>	116.573846	215.113867	108.060571			2
25							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [QCVPTPCEDAEDDCGNDFCSTGR](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
76.7	3257.246475	-0.016203	<a href="#">QCVPTPCEDAEDDCGNDFCSTGR</a>

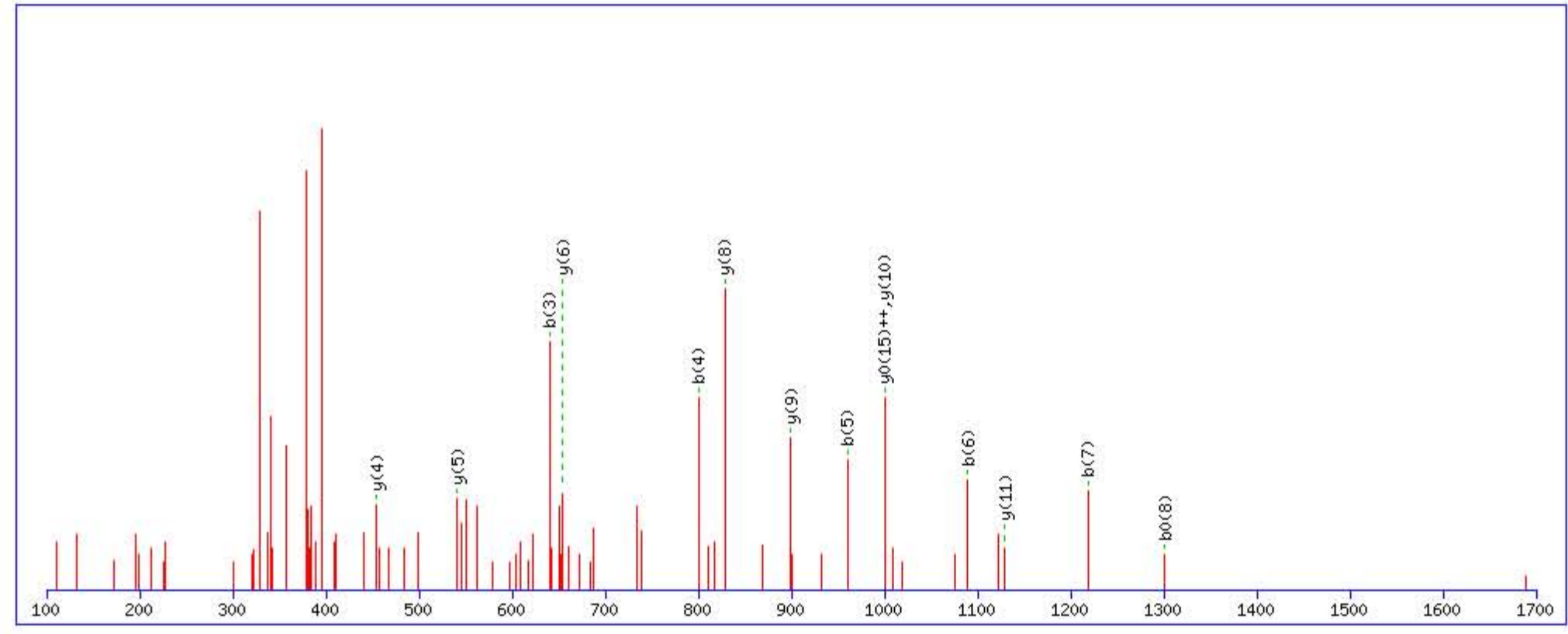
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AEQCCEETASSISLHGK**  
 Found in **CO9\_HUMAN**, Complement component C9 OS=Homo sapiens GN=C9 PE=1 SV=2

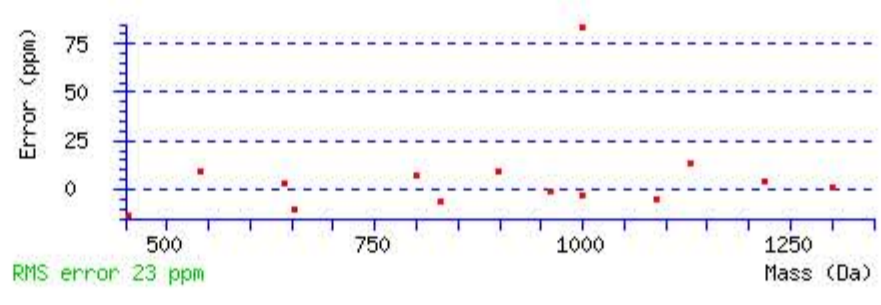
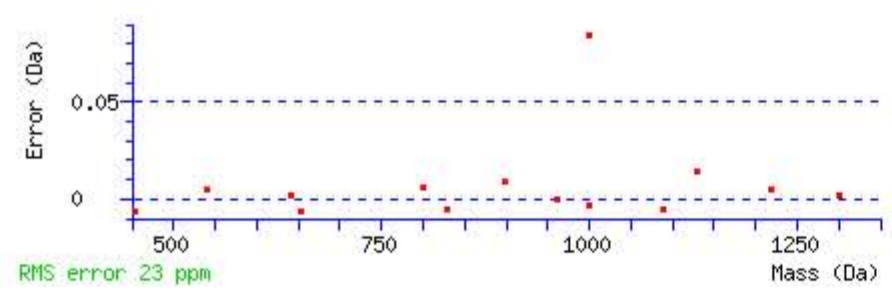
Match to Query 43540: 2216.978622 from(740.000150,3+) rtinseconds(1626) index(29598)  
 Title: Locus:1.1.1.3229.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2216.986404  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q3 : Biotin:Thermo-21345 (Q)  
 Ions Score: 38 Expect: 0.0011  
 Matches : 14/178 fragment ions using 25 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							17
2	201.086983	101.047130			183.076418	92.041847	E	2146.956588	1073.981932	2129.930039	1065.468657	2128.946023	1064.976649	16
3	<b>640.312309</b>	320.659793	623.285760	312.146518	622.301744	311.654510	Q	2017.913995	1009.460636	2000.887446	1000.947361	1999.903430	<b>1000.455353</b>	15
4	<b>800.342958</b>	400.675117	783.316409	392.161843	782.332393	391.669835	C	1578.688669	789.847972	1561.662120	781.334698	1560.678104	780.842690	14
5	<b>960.373607</b>	480.690442	943.347058	472.177167	942.363042	471.685159	C	1418.658020	709.832648	1401.631471	701.319374	1400.647455	700.827366	13
6	<b>1089.416200</b>	545.211738	1072.389651	536.698464	1071.405635	536.206456	E	1258.627371	629.817323	1241.600822	621.304049	1240.616806	620.812041	12
7	<b>1218.458793</b>	609.733035	1201.432244	601.219760	1200.448228	600.727752	E	<b>1129.584778</b>	565.296027	1112.558229	556.782753	1111.574213	556.290744	11
8	1319.506472	660.256874	1302.479923	651.743600	<b>1301.495907</b>	651.251592	T	<b>1000.542185</b>	500.774731	983.515636	492.261456	982.531620	491.769448	10
9	1390.543586	695.775431	1373.517037	687.262157	1372.533021	686.770149	A	<b>899.494506</b>	450.250891	882.467957	441.737617	881.483941	441.245609	9
10	1477.575614	739.291445	1460.549065	730.778171	1459.565049	730.286163	S	<b>828.457392</b>	414.732334	811.430843	406.219060	810.446827	405.727052	8
11	1564.607642	782.807459	1547.581093	774.294185	1546.597077	773.802177	S	741.425364	371.216320	724.398815	362.703045	723.414799	362.211037	7
12	1677.691706	839.349491	1660.665157	830.836217	1659.681141	830.344209	I	<b>654.393336</b>	327.700306	637.366787	319.187031	636.382771	318.695023	6
13	1764.723734	882.865505	1747.697185	874.352231	1746.713169	873.860223	S	<b>541.309272</b>	271.158274	524.282723	262.644999	523.298707	262.152991	5
14	1877.807798	939.407537	1860.781249	930.894263	1859.797233	930.402255	L	<b>454.277244</b>	227.642260	437.250695	219.128985			4
15	2014.866710	1007.936993	1997.840161	999.423719	1996.856145	998.931711	H	341.193180	171.100228	324.166631	162.586953			3
16	2071.888174	1036.447725	2054.861625	1027.934450	2053.877609	1027.442442	G	204.134268	102.570772	187.107719	94.057497			2
17							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **AEQCCEETASSISLHGK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
38.1	2216.986404	-0.007782	<a href="#">AEQCCEETASSISLHGK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VGSQYR**

Found in **CFAB\_HUMAN**, Complement factor B OS=Homo sapiens GN=CFB PE=1 SV=2

Match to Query 12096: 1019.517328 from(510.765940,2+) rtinseconds(1437) index(42473)

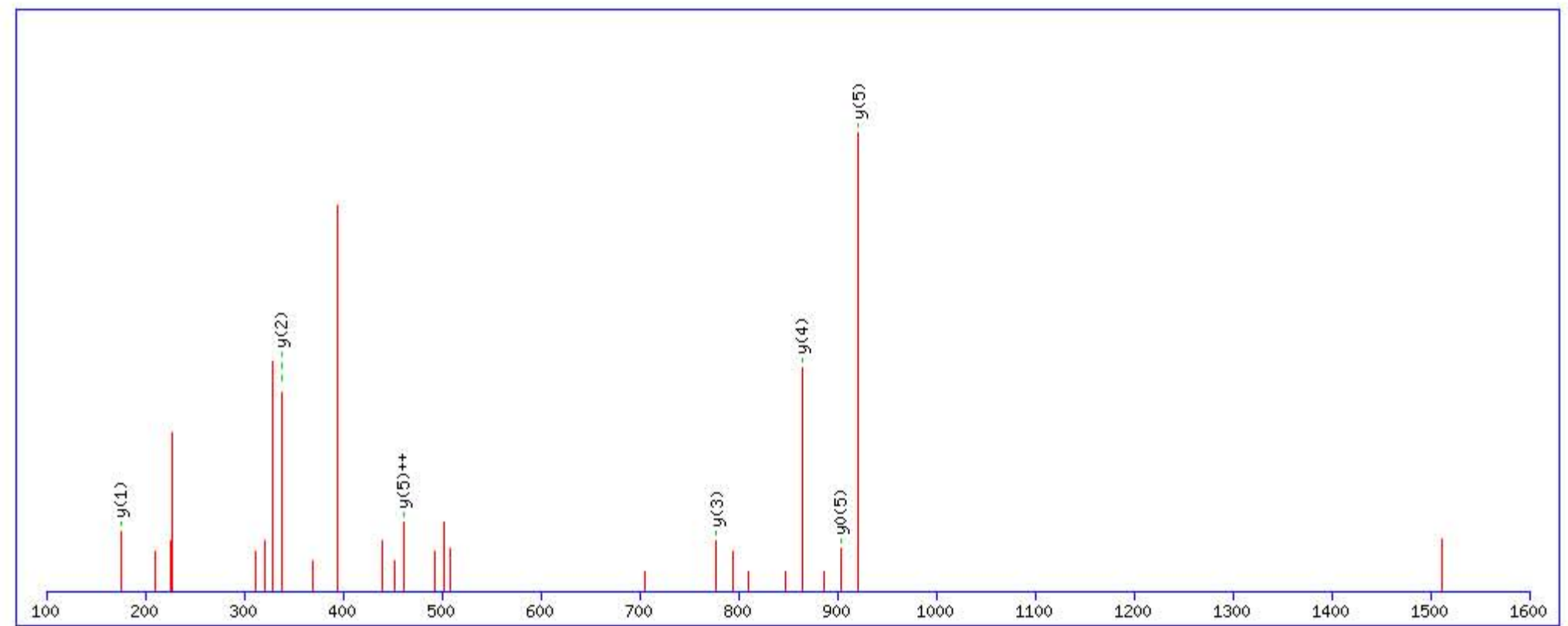
Title: Locus:1.1.1.3213.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1019.522232

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

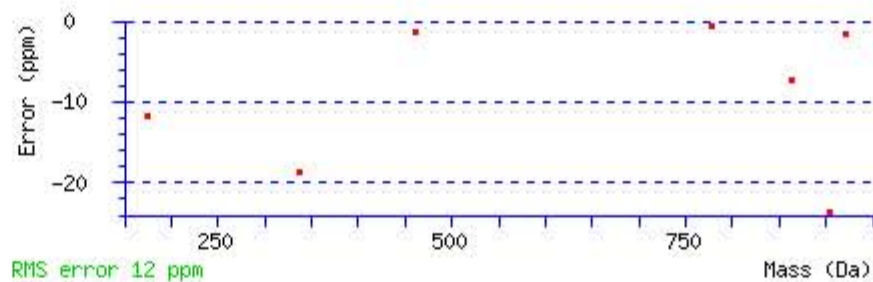
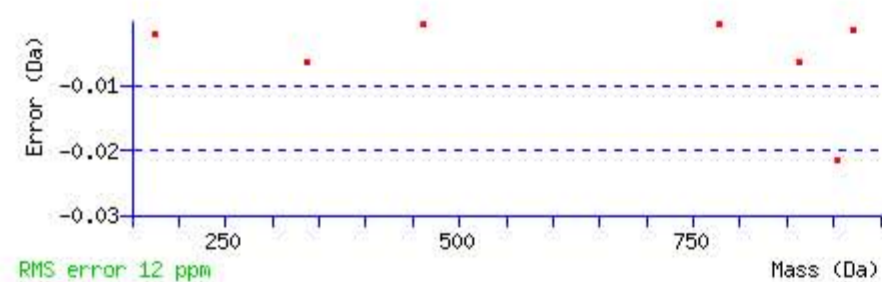
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 34 Expect: 0.0051

Matches : 7/44 fragment ions using 13 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							6
2	157.097154	79.052215					G	921.461099	461.234188	904.434550	452.720913	903.450534	452.228905	5
3	244.129182	122.568229			226.118617	113.562946	S	864.439635	432.723456	847.413086	424.210181	846.429070	423.718173	4
4	683.354508	342.180892	666.327959	333.667618	665.343943	333.175610	Q	777.407607	389.207442	760.381058	380.694167			3
5	846.417837	423.712557	829.391288	415.199282	828.407272	414.707274	Y	338.182281	169.594778	321.155732	161.081504			2
6							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VGSQYR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
34.0	1019.522232	-0.004904	<a href="#">VGSQYR</a>
9.0	1019.510818	0.006510	<a href="#">RSSVSSGGAGR</a>
5.1	1019.512146	0.005182	<a href="#">RSRGHHDR</a>
4.8	1019.526047	-0.008719	<a href="#">SRERGPYR</a>
0.9	1019.526077	-0.008749	<a href="#">VPQAGGQHAR</a>
0.8	1019.529419	-0.012091	<a href="#">RGEISRMR</a>
0.2	1019.506973	0.010355	<a href="#">VMDVINSAR</a>
0.2	1019.525589	-0.008261	<a href="#">VMMEVQKR</a>
0.2	1019.525604	-0.008276	<a href="#">VQLTMCLR</a>
0.2	1019.518204	-0.000876	<a href="#">VRSCETLR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **DAQYAPGYDK**

Found in **CFAB\_HUMAN**, Complement factor B OS=Homo sapiens GN=CFB PE=1 SV=2

Match to Query 25535: 1437.662568 from(719.838560,2+) rtinseconds(1663) index(58798)

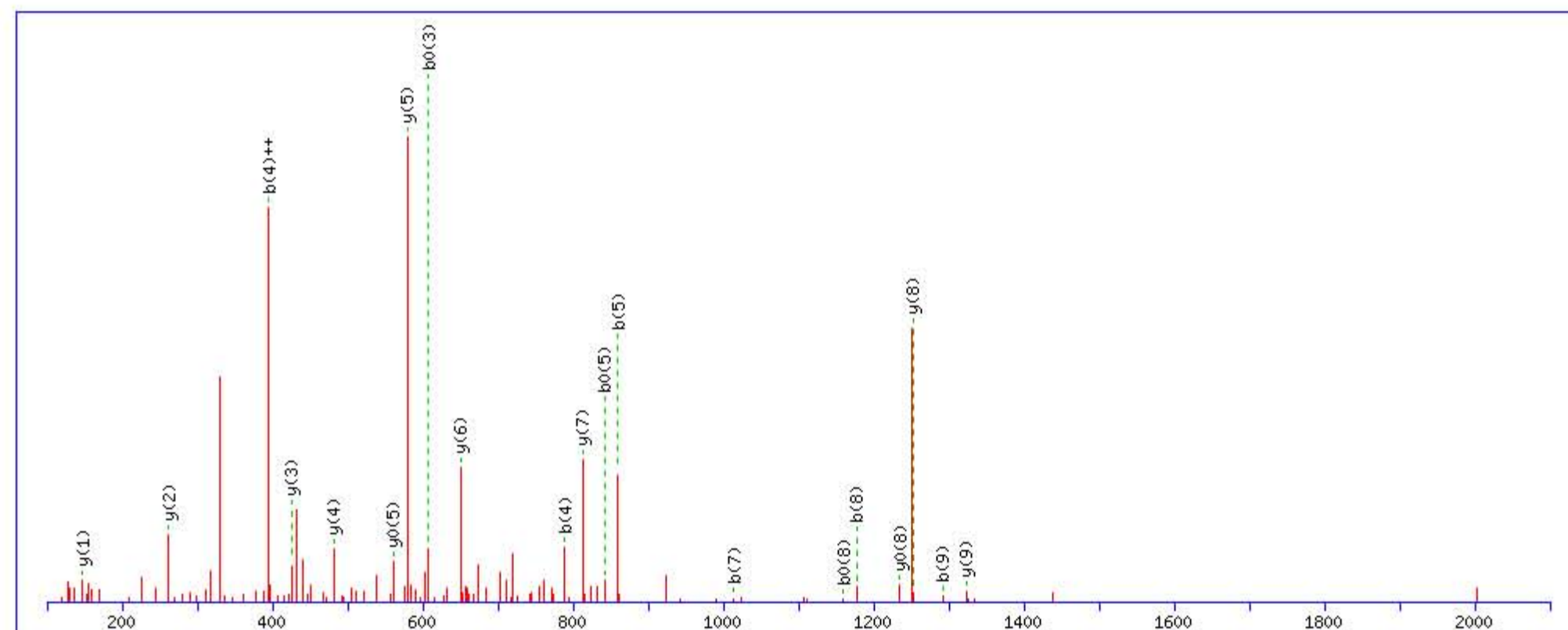
Title: Locus:1.1.1.1490.12 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1437.659836

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

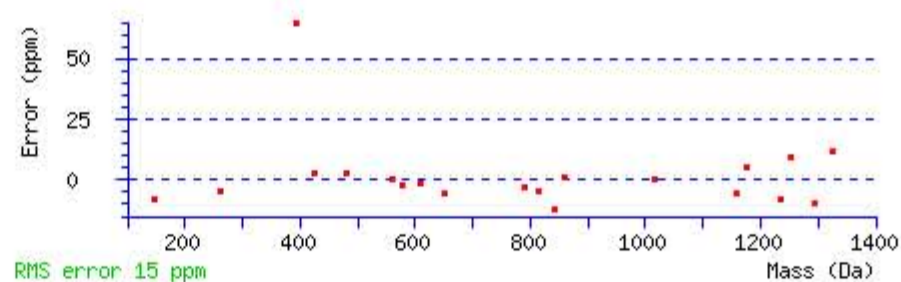
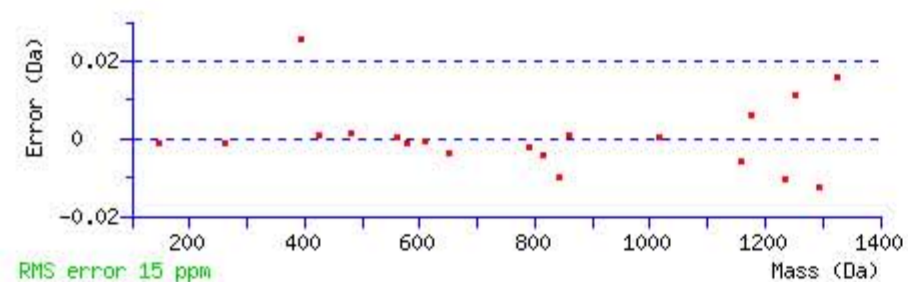
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 47 Expect: 0.00022

Matches : 20/102 fragment ions using 48 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							10
2	187.071333	94.039304			169.060768	85.034022	A	1323.640187	662.323732	1306.613638	653.810457	1305.629622	653.318449	9
3	626.296659	313.651968	609.270110	305.138693	608.286094	304.646685	Q	1252.603073	626.805175	1235.576524	618.291900	1234.592508	617.799892	8
4	789.359988	395.183632	772.333439	386.670358	771.349423	386.178350	Y	813.377747	407.192512	796.351198	398.679237	795.367182	398.187229	7
5	860.397102	430.702189	843.370553	422.188915	842.386537	421.696907	A	650.314418	325.660847	633.287869	317.147573	632.303853	316.655565	6
6	957.449866	479.228571	940.423317	470.715297	939.439301	470.223289	P	579.277304	290.142290	562.250755	281.629016	561.266739	281.137008	5
7	1014.471330	507.739303	997.444781	499.226029	996.460765	498.734021	G	482.224540	241.615908	465.197991	233.102634	464.213975	232.610626	4
8	1177.534659	589.270968	1160.508110	580.757693	1159.524094	580.265685	Y	425.203076	213.105176	408.176527	204.591902	407.192511	204.099894	3
9	1292.561602	646.784439	1275.535053	638.271165	1274.551037	637.779157	D	262.139747	131.573512	245.113198	123.060237	244.129182	122.568229	2
10							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **DAQYAPGYDK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
46.7	1437.659836	0.002732	<a href="#">DAQYAPGYDK</a>
19.6	1437.647064	0.015504	<a href="#">ASSDLSIASSEEDK</a>
10.4	1437.659164	0.003404	<a href="#">LAEAEQMALMGSR</a>
4.9	1437.680969	-0.018401	<a href="#">EGFLKGEDGEMVK</a>
0.6	1437.644577	0.017991	<a href="#">EDLGAGNLEDFMK</a>
0.6	1437.645264	0.017304	<a href="#">SDASCMSQRRPK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EELLPAQDIK**

Found in **CFAB\_HUMAN**, Complement factor B OS=Homo sapiens GN=CFB PE=1 SV=2

Match to Query 26317: 1465.793588 from(733.904070,2+) rtinseconds(2156) index(61413)

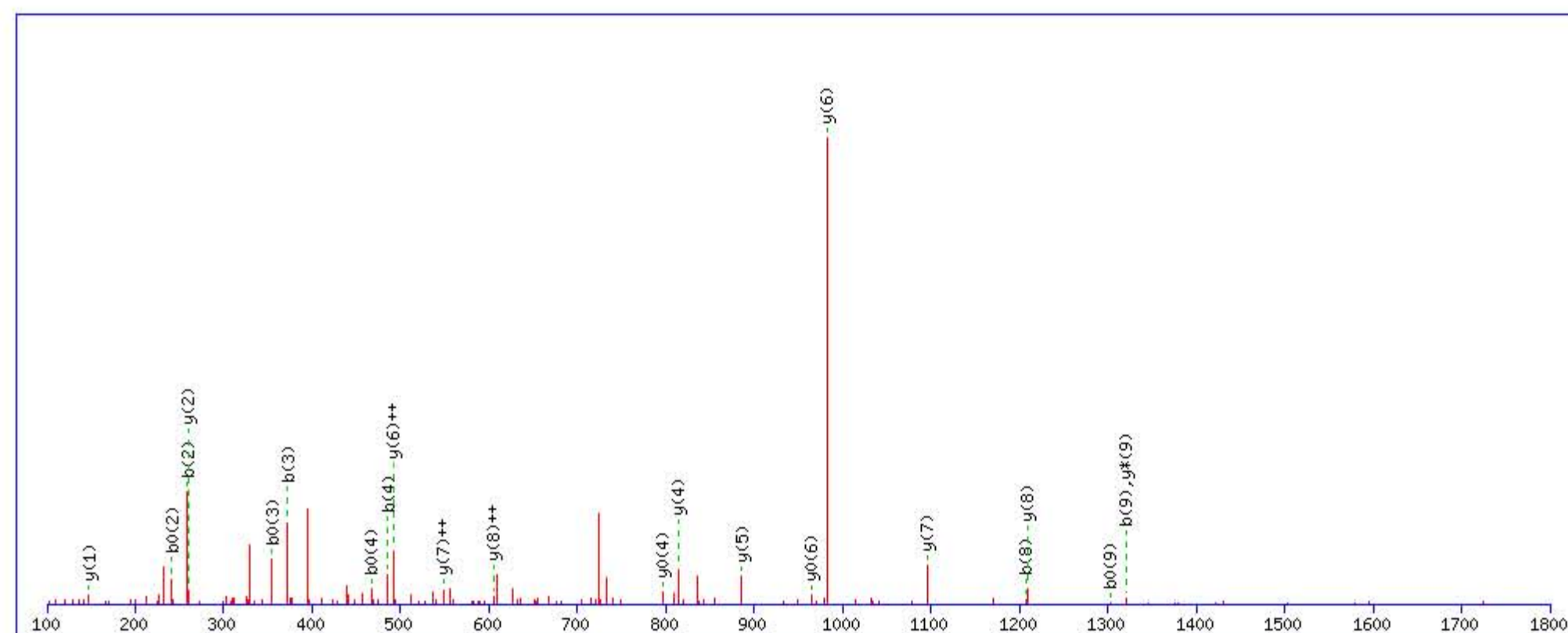
Title: Locus:1.1.1.1662.11 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1465.785019

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

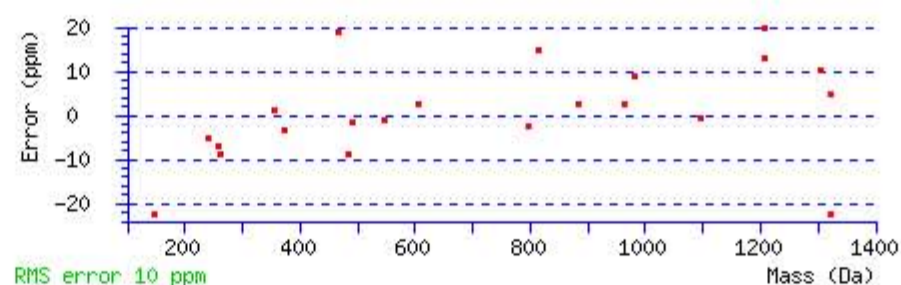
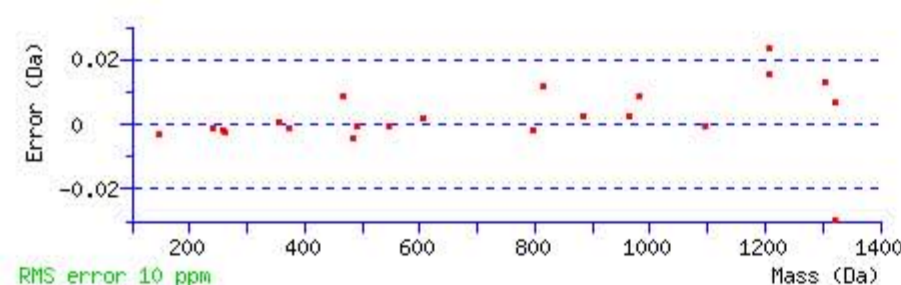
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 31 Expect: 0.016

Matches : 22/92 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							10
2	<b>259.092462</b>	130.049869			<b>241.081897</b>	121.044587	E	1337.749736	669.378506	<b>1320.723187</b>	660.865232	1319.739171	660.373223	9
3	<b>372.176526</b>	186.591901			<b>354.165961</b>	177.586619	L	<b>1208.707143</b>	<b>604.857210</b>	1191.680594	596.343935	1190.696578	595.851927	8
4	<b>485.260590</b>	243.133933			<b>467.250025</b>	234.128651	L	<b>1095.623079</b>	<b>548.315178</b>	1078.596530	539.801903	1077.612514	539.309895	7
5	582.313354	291.660315			564.302789	282.655033	P	<b>982.539015</b>	<b>491.773146</b>	965.512466	483.259871	<b>964.528450</b>	482.767863	6
6	653.350468	327.178872			635.339903	318.173590	A	<b>885.486251</b>	443.246764	868.459702	434.733489	867.475686	434.241481	5
7	1092.575794	546.791535	1075.549245	538.278261	1074.565229	537.786253	Q	<b>814.449137</b>	407.728207	797.422588	399.214932	<b>796.438572</b>	398.722924	4
8	<b>1207.602737</b>	604.305007	1190.576188	595.791732	1189.592172	595.299724	D	375.223811	188.115543	358.197262	179.602269	357.213246	179.110261	3
9	<b>1320.686801</b>	660.847039	1303.660252	652.333764	<b>1302.676236</b>	651.841756	I	<b>260.196868</b>	130.602072	243.170319	122.088797			2
10							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EELLPAQDIK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
30.9	1465.785019	0.008569	<a href="#">EELLPAQDIK</a>
12.4	1465.813995	-0.020407	<a href="#">SQLKHEILELEK</a>
4.5	1465.788849	0.004739	<a href="#">SKHLQEQLNELK</a>
0.5	1465.794235	-0.000647	<a href="#">KWGIGYHLSLHR</a>
0.0	1465.788849	0.004739	<a href="#">KQVEHQLEEAKK</a>
0.0	1465.800125	-0.006537	<a href="#">LAQDGAHVVSRRK</a>
0.0	1465.789734	0.003854	<a href="#">TAAALGMHQKK</a>

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



# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **LPPTTTCQQQK**

Found in **CFAB\_HUMAN**, Complement factor B OS=Homo sapiens GN=CFB PE=1 SV=2

Match to Query 31048: 1611.811032 from(538.277620,3+) rtinseconds(1504) index(1979)

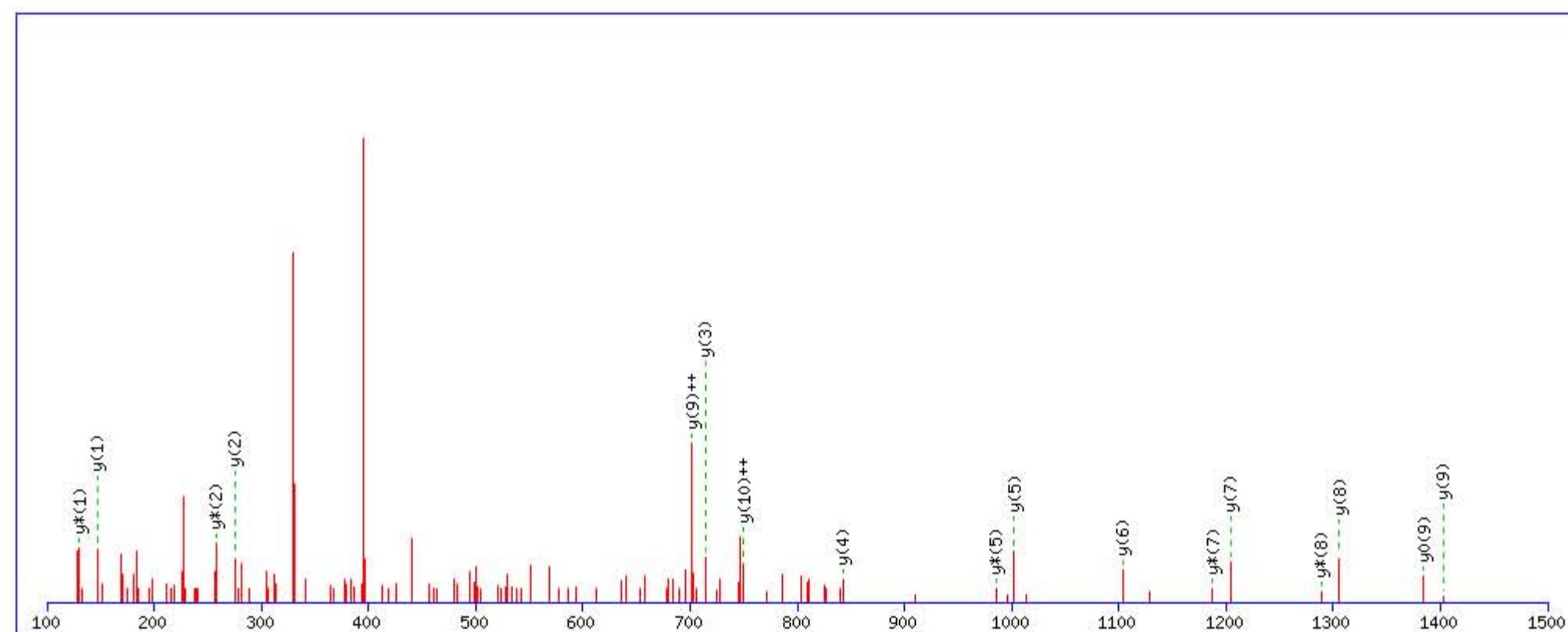
Title: Locus:1.1.1.3043.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1611.811295

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

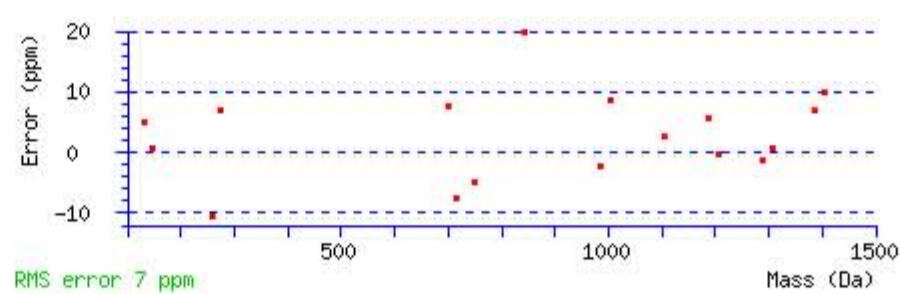
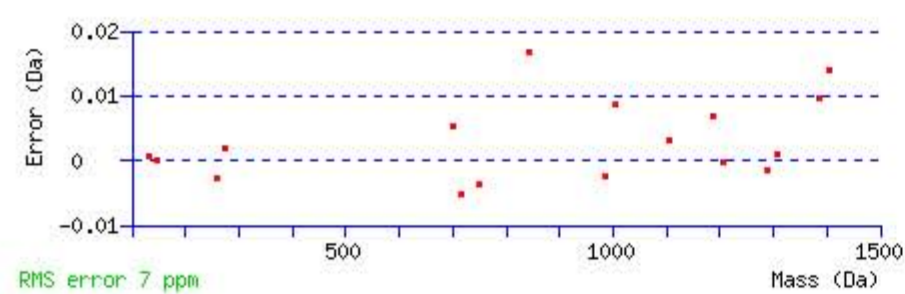
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 48 Expect: 0.00012

Matches : 17/90 fragment ions using 35 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							11
2	211.144104	106.075690					P	1499.734500	750.370888	1482.707951	741.857614	1481.723935	741.365606	10
3	308.196868	154.602072					P	1402.681736	701.844506	1385.655187	693.331232	1384.671171	692.839224	9
4	409.244547	205.125911			391.233982	196.120629	T	1305.628972	653.318124	1288.602423	644.804850	1287.618407	644.312842	8
5	510.292226	255.649751			492.281661	246.644468	T	1204.581293	602.794285	1187.554744	594.281010	1186.570728	593.789002	7
6	611.339905	306.173591			593.329340	297.168308	T	1103.533614	552.270445	1086.507065	543.757171	1085.523049	543.265163	6
7	771.370554	386.188915			753.359989	377.183633	C	1002.485935	501.746606	985.459386	493.233331			5
8	899.429132	450.218204	882.402583	441.704930	881.418567	441.212922	Q	842.455286	421.731281	825.428737	413.218007			4
9	1338.654458	669.830867	1321.627909	661.317593	1320.643893	660.825585	Q	714.396708	357.701992	697.370159	349.188718			3
10	1466.713036	733.860156	1449.686487	725.346882	1448.702471	724.854874	Q	275.171382	138.089329	258.144833	129.576055			2
11							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LPPTTTCQQQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
47.7	1611.811295	-0.000263	<a href="#">LPPTTTCQQQK</a>
36.4	1611.811295	-0.000263	<a href="#">LPPTTTCQQQK</a>
34.4	1611.811295	-0.000263	<a href="#">LPPTTTCQQQK</a>
5.6	1611.803406	0.007626	<a href="#">TPIKMGISASTMTMK</a>
4.8	1611.829010	-0.017978	<a href="#">EDNSTYIMRVLKK</a>
2.3	1611.817780	-0.006748	<a href="#">KMAKSFTAEDIVK</a>
1.8	1611.803406	0.007626	<a href="#">TPIKMGISASTMTMK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LPPTTTCQQQK**

Found in **CFAB\_HUMAN**, Complement factor B OS=Homo sapiens GN=CFB PE=1 SV=2

Match to Query 31052: 1611.814968 from(806.914760,2+) rtinseconds(1485) index(1852)

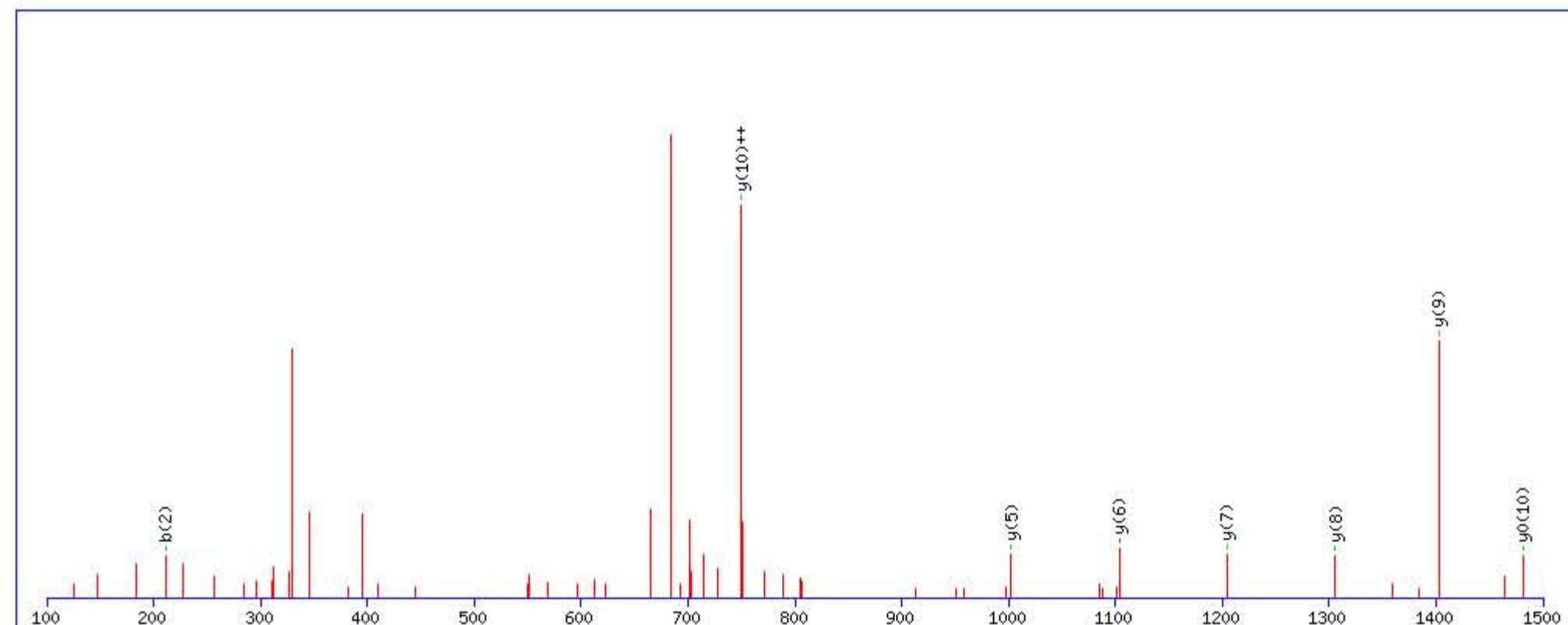
Title: Locus:1.1.1.3036.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1611.811295

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

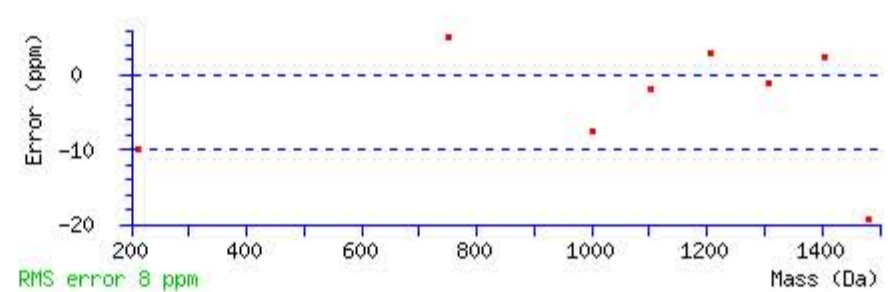
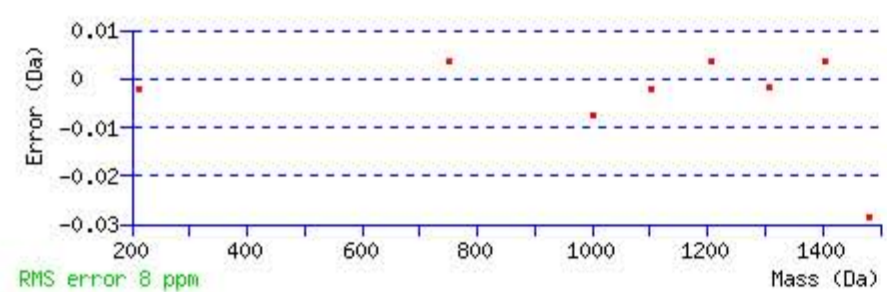
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.0064

Matches : 8/90 fragment ions using 14 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							11
2	<b>211.144104</b>	106.075690					P	1499.734500	<b>750.370888</b>	1482.707951	741.857614	<b>1481.723935</b>	741.365606	10
3	308.196868	154.602072					P	<b>1402.681736</b>	701.844506	1385.655187	693.331232	1384.671171	692.839224	9
4	409.244547	205.125911			391.233982	196.120629	T	<b>1305.628972</b>	653.318124	1288.602423	644.804850	1287.618407	644.312842	8
5	510.292226	255.649751			492.281661	246.644468	T	<b>1204.581293</b>	602.794285	1187.554744	594.281010	1186.570728	593.789002	7
6	611.339905	306.173591			593.329340	297.168308	T	<b>1103.533614</b>	552.270445	1086.507065	543.757171	1085.523049	543.265163	6
7	771.370554	386.188915			753.359989	377.183633	C	<b>1002.485935</b>	501.746606	985.459386	493.233331			5
8	899.429132	450.218204	882.402583	441.704930	881.418567	441.212922	Q	842.455286	421.731281	825.428737	413.218007			4
9	1027.487710	514.247493	1010.461161	505.734219	1009.477145	505.242211	Q	714.396708	357.701992	697.370159	349.188718			3
10	1466.713036	733.860156	1449.686487	725.346882	1448.702471	724.854874	Q	586.338130	293.672703	569.311581	285.159429			2
11							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LPPTTTCQQQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
26.1	1611.811295	0.003673	<a href="#">LPPTTTCQQQK</a>
26.1	1611.811295	0.003673	<a href="#">LPPTTTCQQQK</a>
26.1	1611.811295	0.003673	<a href="#">LPPTTTCQQQK</a>
0.6	1611.826324	-0.011356	<a href="#">LQSHMDALRKQNR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LPPTTTCQQQK**

Found in **CFAB\_HUMAN**, Complement factor B OS=Homo sapiens GN=CFB PE=1 SV=2

Match to Query 37853: 1922.984952 from(642.002260,3+) rtinseconds(1831) index(3922)

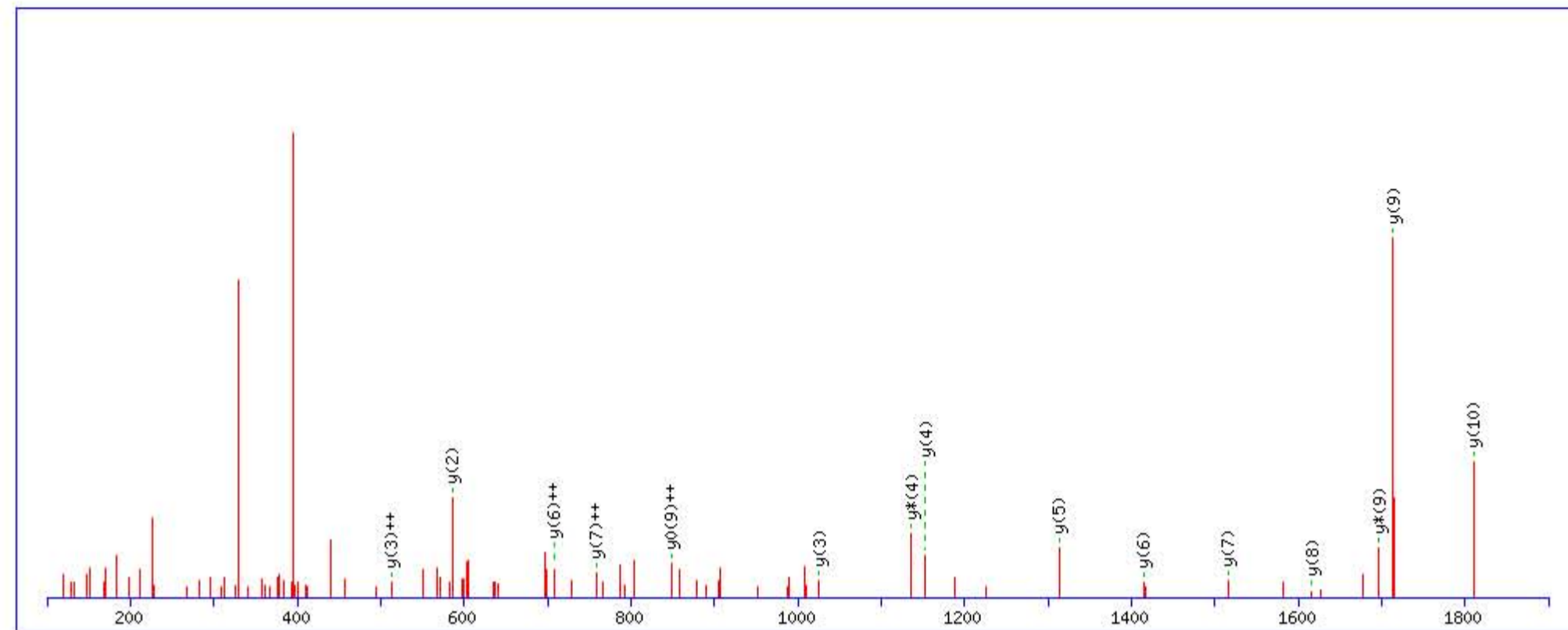
Title: Locus:1.1.1.3157.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1922.978043

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

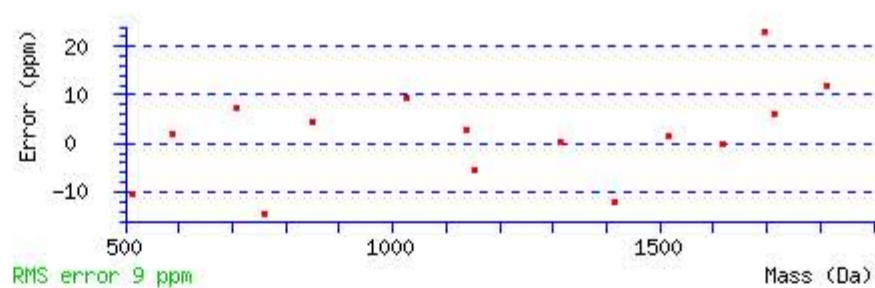
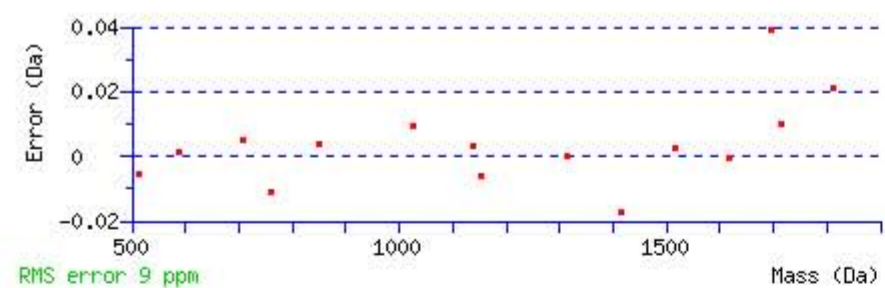
Q9 : Biotin:Thermo-21345 (Q)

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 31 Expect: 0.0012

Matches : 15/90 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							11
2	211.144104	106.075690					P	1810.901248	905.954262	1793.874699	897.440988	1792.890683	896.948980	10
3	308.196868	154.602072					P	1713.848484	857.427880	1696.821935	848.914606	1695.837919	848.422598	9
4	409.244547	205.125911			391.233982	196.120629	T	1616.795720	808.901498	1599.769171	800.388224	1598.785155	799.896216	8
5	510.292226	255.649751			492.281661	246.644468	T	1515.748041	758.377659	1498.721492	749.864384	1497.737476	749.372376	7
6	611.339905	306.173591			593.329340	297.168308	T	1414.700362	707.853819	1397.673813	699.340545	1396.689797	698.848537	6
7	771.370554	386.188915			753.359989	377.183633	C	1313.652683	657.329980	1296.626134	648.816705			5
8	899.429132	450.218204	882.402583	441.704930	881.418567	441.212922	Q	1153.622034	577.314655	1136.595485	568.801381			4
9	1338.654458	669.830867	1321.627909	661.317593	1320.643893	660.825585	Q	1025.563456	513.285366	1008.536907	504.772092			3
10	1777.879784	889.443530	1760.853235	880.930256	1759.869219	880.438248	Q	586.338130	293.672703	569.311581	285.159429			2
11							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LPPTTTCQQQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
31.3	1922.978043	0.006909	<a href="#">LPPTTTCQQQK</a>
23.2	1922.978043	0.006909	<a href="#">LPPTTTCQQQK</a>
15.7	1922.978043	0.006909	<a href="#">LPPTTTCQQQK</a>
0.2	1923.003632	-0.018680	<a href="#">AKELHVQNVHMYLPTK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **YGQTIKPIKLPCTEGTTR**

Found in **CFAB\_HUMAN**, Complement factor B OS=Homo sapiens GN=CFB PE=1 SV=2

Match to Query 47029: 2433.198042 from(812.073290,3+) rtinseconds(2076) index(19458)

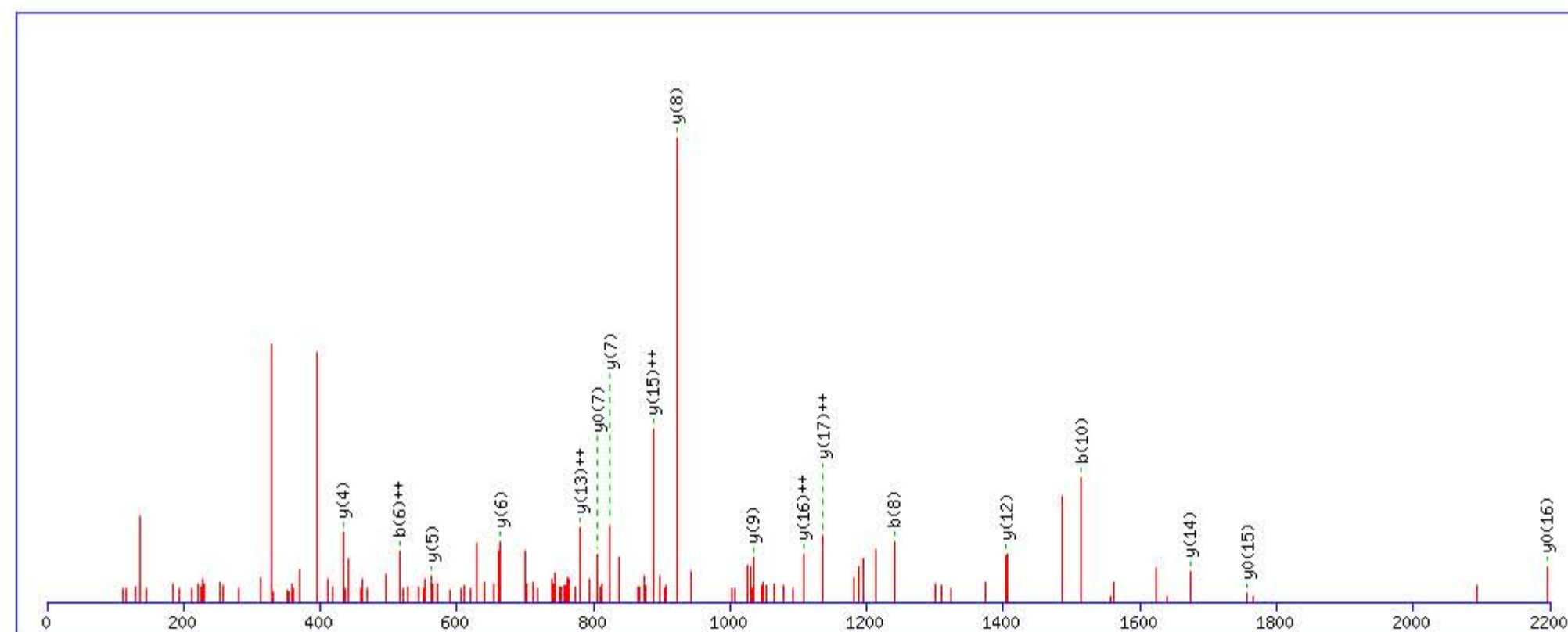
Title: Locus:1.1.1.3288.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2433.196701

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

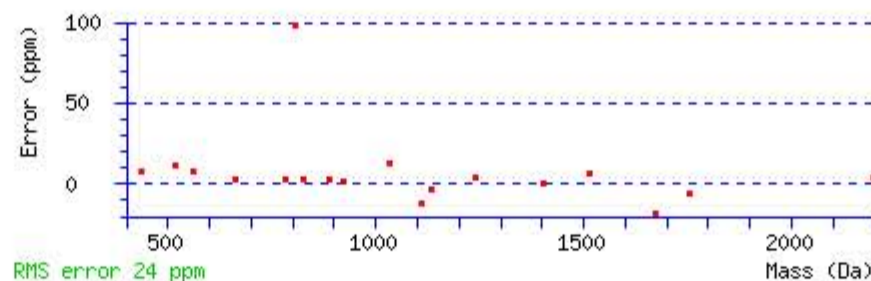
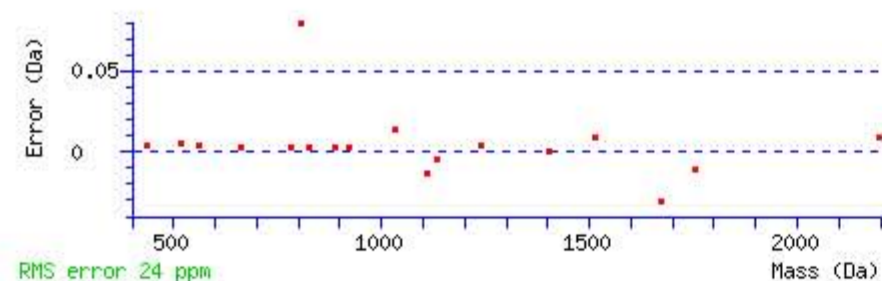
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 38 Expect: 0.0039

Matches : 18/192 fragment ions using 35 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							18
2	221.092069	111.049673					G	2271.140644	1136.073960	2254.114095	1127.560685	2253.130079	1127.068677	17
3	660.317395	330.662336	643.290846	322.149061			Q	2214.119180	1107.563228	2197.092631	1099.049953	2196.108615	1098.557945	16
4	761.365074	381.186175	744.338525	372.672901	743.354509	372.180893	T	1774.893854	887.950565	1757.867305	879.437290	1756.883289	878.945282	15
5	874.449138	437.728207	857.422589	429.214933	856.438573	428.722925	I	1673.846175	837.426725	1656.819626	828.913451	1655.835610	828.421443	14
6	1030.550249	515.778763	1013.523700	507.265488	1012.539684	506.773480	R	1560.762111	780.884693	1543.735562	772.371419	1542.751546	771.879411	13
7	1127.603013	564.305145	1110.576464	555.791870	1109.592448	555.299862	P	1404.661000	702.834138	1387.634451	694.320863	1386.650435	693.828855	12
8	1240.687077	620.847177	1223.660528	612.333902	1222.676512	611.841894	I	1307.608236	654.307756	1290.581687	645.794481	1289.597671	645.302473	11
9	1400.717726	700.862501	1383.691177	692.349227	1382.707161	691.857219	C	1194.524172	597.765724	1177.497623	589.252449	1176.513607	588.760441	10
10	1513.801790	757.404533	1496.775241	748.891259	1495.791225	748.399250	L	1034.493523	517.750399	1017.466974	509.237125	1016.482958	508.745117	9
11	1610.854554	805.930915	1593.828005	797.417641	1592.843989	796.925633	P	921.409459	461.208367	904.382910	452.695093	903.398894	452.203085	8
12	1770.885203	885.946240	1753.858654	877.432965	1752.874638	876.940957	C	824.356695	412.681985	807.330146	404.168711	806.346130	403.676703	7
13	1871.932882	936.470079	1854.906333	927.956805	1853.922317	927.464797	T	664.326046	332.666661	647.299497	324.153386	646.315481	323.661378	6
14	2000.975475	1000.991376	1983.948926	992.478101	1982.964910	991.986093	E	563.278367	282.142821	546.251818	273.629547	545.267802	273.137539	5
15	2057.996939	1029.502107	2040.970390	1020.988833	2039.986374	1020.496825	G	434.235774	217.621525	417.209225	209.108250	416.225209	208.616242	4
16	2159.044618	1080.025947	2142.018069	1071.512672	2141.034053	1071.020664	T	377.214310	189.110793	360.187761	180.597518	359.203745	180.105510	3
17	2260.092297	1130.549786	2243.065748	1122.036512	2242.081732	1121.544504	T	276.166631	138.586953	259.140082	130.073679	258.156066	129.581671	2
18							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **YGQTIKPIKLPCTEGTTR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
38.3	2433.196701	0.001341	<a href="#">YGQTIKPIKLPCTEGTTR</a>

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

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **LLQEGQALEYVCPSPGFYPYPVQTR**

Found in **CFAB\_HUMAN**, Complement factor B OS=Homo sapiens GN=CFB PE=1 SV=2

Match to Query 54869: 3125.572602 from(1042.864810,3+) rtinseconds(2705) index(8692)

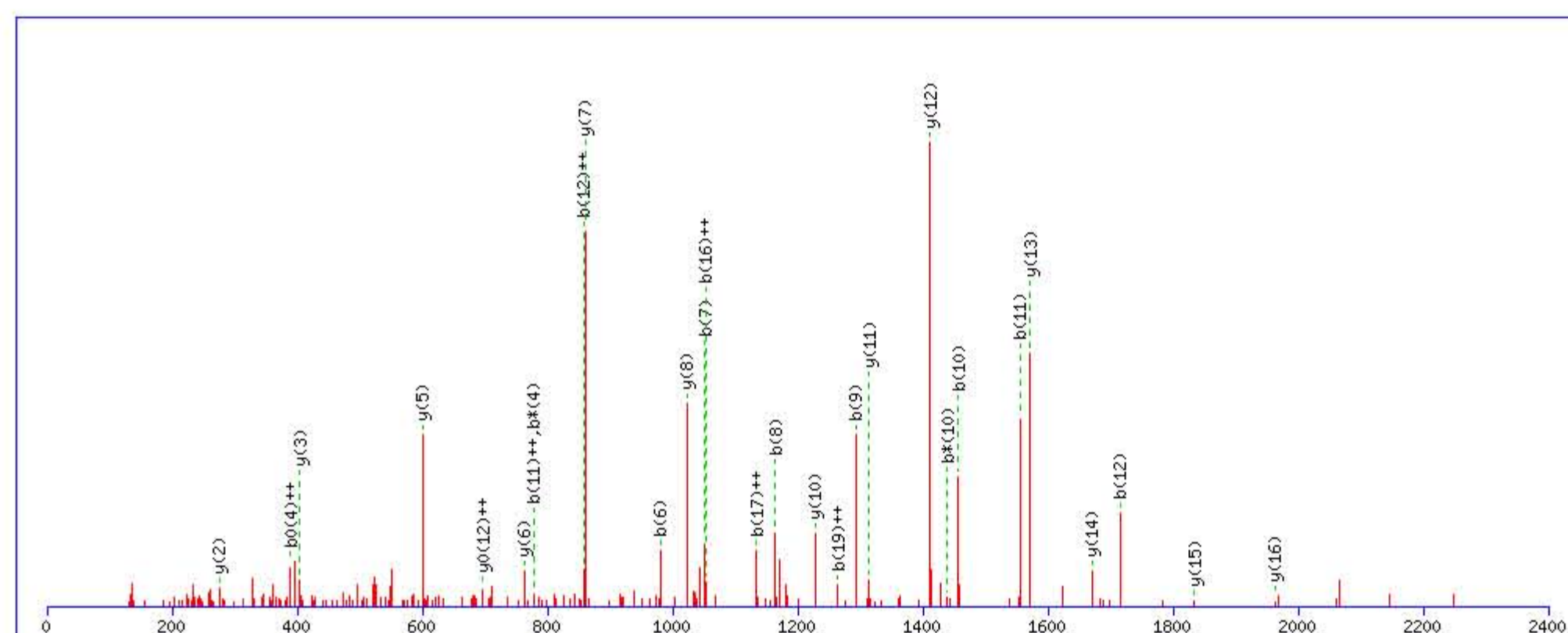
Title: Locus:1.1.1.3461.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3125.535446

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

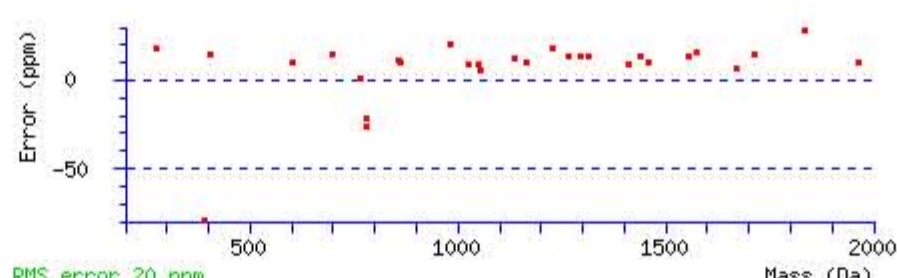
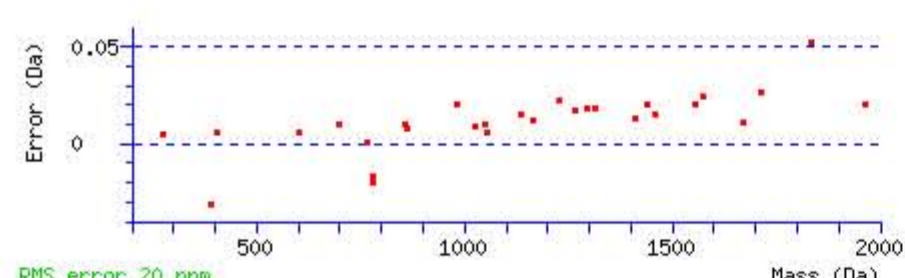
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 62 Expect: 2e-005

Matches : 29/264 fragment ions using 58 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							24
2	227.175404	114.091340					L	3013.458667	1507.232971	2996.432118	1498.719697	2995.448102	1498.227689	23
3	666.400730	333.704003	649.374181	325.190729			Q	2900.374603	1450.690939	2883.348054	1442.177665	2882.364038	1441.685657	22
4	795.443323	398.225300	778.416774	389.712025	777.432758	389.220017	E	2461.149277	1231.078276	2444.122728	1222.565002	2443.138712	1222.072994	21
5	852.464787	426.736032	835.438238	418.222757	834.454222	417.730749	G	2332.106684	1166.556980	2315.080135	1158.043705	2314.096119	1157.551697	20
6	980.523365	490.765321	963.496816	482.252046	962.512800	481.760038	Q	2275.085220	1138.046248	2258.058671	1129.532973	2257.074655	1129.040965	19
7	1051.560479	526.283878	1034.533930	517.770603	1033.549914	517.278595	A	2147.026642	1074.016959	2130.000093	1065.503684	2129.016077	1065.011676	18
8	1164.644543	582.825910	1147.617994	574.312635	1146.633978	573.820627	L	2075.989528	1038.498402	2058.962979	1029.985127	2057.978963	1029.493119	17
9	1293.687136	647.347206	1276.660587	638.833932	1275.676571	638.341924	E	1962.905464	981.956370	1945.878915	973.443096	1944.894899	972.951088	16
10	1456.750465	728.878871	1439.723916	720.365596	1438.739900	719.873588	Y	1833.862871	917.435074	1816.836322	908.921799	1815.852306	908.429791	15
11	1555.818879	778.413078	1538.792330	769.899803	1537.808314	769.407795	V	1670.799542	835.903409	1653.772993	827.390135	1652.788977	826.898126	14
12	1715.849528	858.428402	1698.822979	849.915128	1697.838963	849.423120	C	1571.731128	786.369202	1554.704579	777.855928	1553.720563	777.363919	13
13	1812.902292	906.954784	1795.875743	898.441510	1794.891727	897.949502	P	1411.700479	706.353877	1394.673930	697.840603	1393.689914	697.348595	12
14	1899.934320	950.470798	1882.907771	941.957524	1881.923755	941.465516	S	1314.647715	657.827495	1297.621166	649.314221	1296.637150	648.822213	11
15	1956.955784	978.981530	1939.929235	970.468256	1938.945219	969.976248	G	1227.615687	614.311481	1210.589138	605.798207	1209.605122	605.306199	10
16	2104.024198	1052.515737	2086.997649	1044.002462	2086.013633	1043.510454	F	1170.594223	585.800749	1153.567674	577.287475	1152.583658	576.795467	9
17	2267.087527	1134.047402	2250.060978	1125.534127	2249.076962	1125.042119	Y	1023.525809	512.266543	1006.499260	503.753268	1005.515244	503.261260	8
18	2364.140291	1182.573784	2347.113742	1174.060509	2346.129726	1173.568501	P	860.462480	430.734878	843.435931	422.221603	842.451915	421.729595	7
19	2527.203620	1264.105448	2510.177071	1255.592173	2509.193055	1255.100166	Y	763.409716	382.208496	746.383167	373.695221	745.399151	373.203213	6
20	2624.256384	1312.631830	2607.229835	1304.118556	2606.245819	1303.626548	P	600.346387	300.676831	583.319838	292.163557	582.335822	291.671549	5
21	2723.324798	1362.166037	2706.298249	1353.652762	2705.314233	1353.160754	V	503.293623	252.150449	486.267074	243.637175	485.283058	243.145167	4
22	2851.383376	1426.195326	2834.356827	1417.682051	2833.372811	1417.190044	Q	404.225209	202.616242	387.198660	194.102968	386.214644	193.610960	3
23	2952.431055	1476.719165	2935.404506	1468.205891	2934.420490	1467.713883	T	276.166631	138.586953	259.140082	130.073679	258.156066	129.581671	2
24							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LLQEGQALEYVCPSPGFYPYPVQTR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
61.6	3125.535446	0.037156	<a href="#">LLQEGQALEYVCPSPGFYPYPVQTR</a>
61.6	3125.535446	0.037156	<a href="#">LLQEGQALEYVCPSPGFYPYPVQTR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VQVLLGAHLSQPEPSK**

Found in **CFAD\_HUMAN**, Complement factor D OS=Homo sapiens GN=CFD PE=1 SV=5

Match to Query 41616: 2100.138852 from(701.053560,3+) rtinseconds(2001) index(31891)

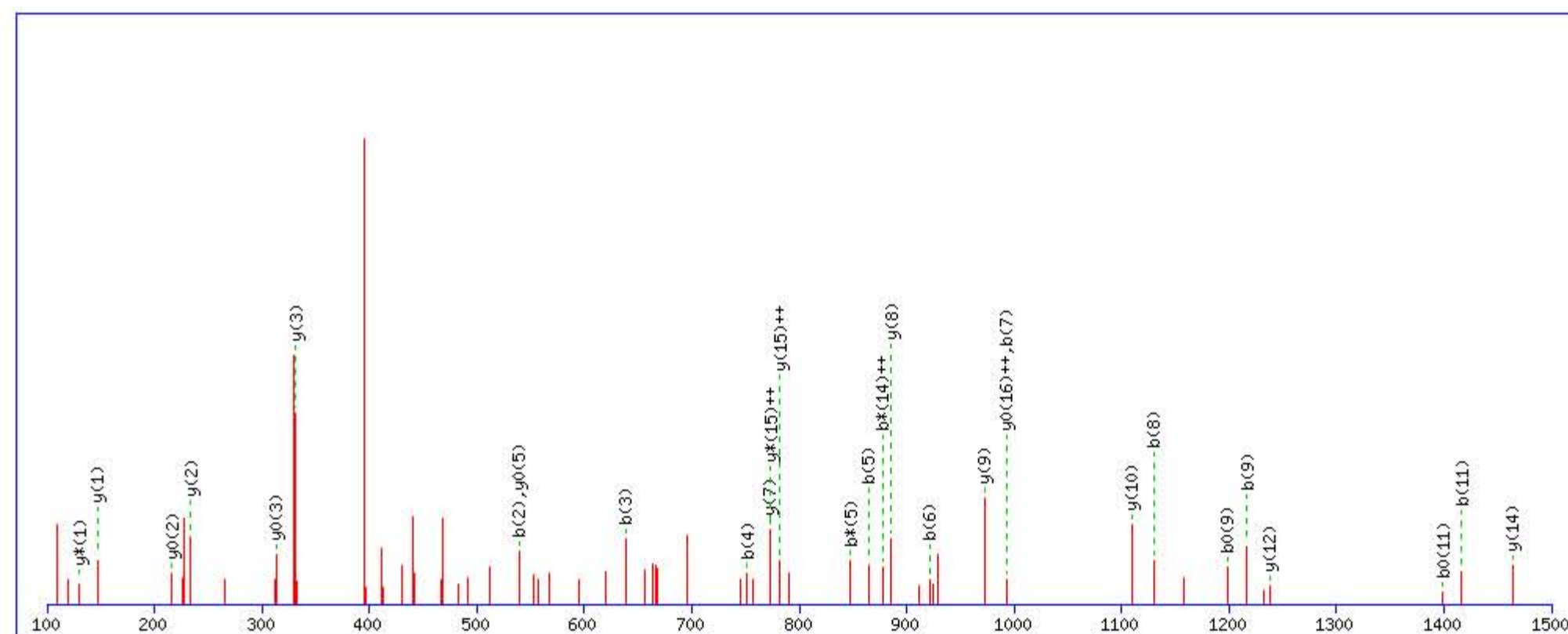
Title: Locus:1.1.1.3360.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2100.140137

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

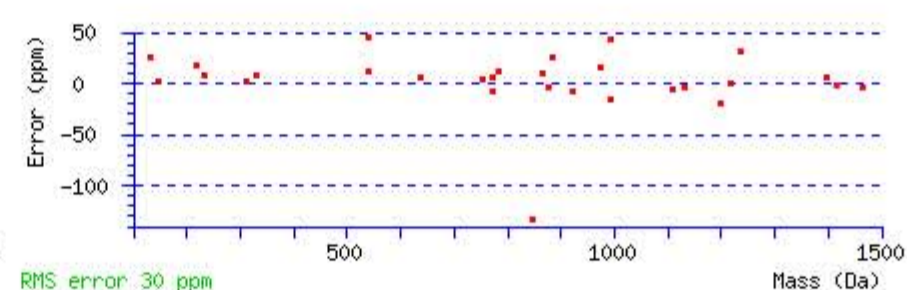
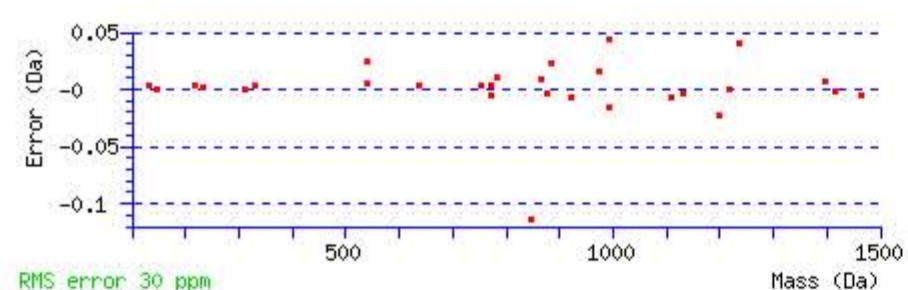
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 62 Expect: 1.3e-005

Matches : 29/172 fragment ions using 46 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							17
2	<b>539.301016</b>	270.154146	522.274467	261.640872			Q	2002.079009	1001.543143	1985.052460	993.029868	1984.068444	<b>992.537860</b>	16
3	<b>638.369430</b>	319.688353	621.342881	311.175079			V	1562.853683	<b>781.930480</b>	1545.827134	<b>773.417205</b>	1544.843118	772.925197	15
4	<b>751.453494</b>	376.230385	734.426945	367.717111			L	<b>1463.785269</b>	732.396273	1446.758720	723.882998	1445.774704	723.390990	14
5	<b>864.537558</b>	432.772417	<b>847.511009</b>	424.259143			L	1350.701205	675.854241	1333.674656	667.340966	1332.690640	666.848958	13
6	<b>921.559022</b>	461.283149	904.532473	452.769875			G	<b>1237.617141</b>	619.312209	1220.590592	610.798934	1219.606576	610.306926	12
7	<b>992.596136</b>	496.801706	975.569587	488.288432			A	1180.595677	590.801477	1163.569128	582.288202	1162.585112	581.796194	11
8	<b>1129.655048</b>	565.331162	1112.628499	556.817888			H	<b>1109.558563</b>	555.282920	1092.532014	546.769645	1091.547998	546.277637	10
9	<b>1216.687076</b>	608.847176	1199.660527	600.333902	<b>1198.676511</b>	599.841894	S	<b>972.499651</b>	486.753464	955.473102	478.240189	954.489086	477.748181	9
10	1329.771140	665.389208	1312.744591	656.875934	1311.760575	656.383926	L	<b>885.467623</b>	443.237450	868.441074	434.724175	867.457058	434.232167	8
11	<b>1416.803168</b>	708.905222	1399.776619	700.391948	<b>1398.792603</b>	699.899940	S	<b>772.383559</b>	386.695418	755.357010	378.182143	754.372994	377.690135	7
12	1544.861746	772.934511	1527.835197	764.421237	1526.851181	763.929229	Q	685.351531	343.179404	668.324982	334.666129	667.340966	334.174121	6
13	1641.914510	821.460893	1624.887961	812.947619	1623.903945	812.455611	P	557.292953	279.150115	540.266404	270.636840	<b>539.282388</b>	270.144832	5
14	1770.957103	885.982190	1753.930554	<b>877.468915</b>	1752.946538	876.976907	E	460.240189	230.623733	443.213640	222.110458	442.229624	221.618450	4
15	1868.009867	934.508572	1850.983318	925.995297	1849.999302	925.503289	P	<b>331.197596</b>	166.102436	314.171047	157.589162	<b>313.187031</b>	157.097154	3
16	1955.041895	978.024586	1938.015346	969.511311	1937.031330	969.019303	S	<b>234.144832</b>	117.576054	217.118283	109.062780	<b>216.134267</b>	108.570772	2
17							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **VQVLLGAHLSQPEPSK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
61.9	2100.140137	-0.001285	<a href="#">VQVLLGAHLSQPEPSK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SSQESYAHGTK**

Found in **CFAH\_HUMAN**, Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4

Match to Query 27267: 1504.695012 from(502.572280,3+) rtinseconds(1248) index(14533)

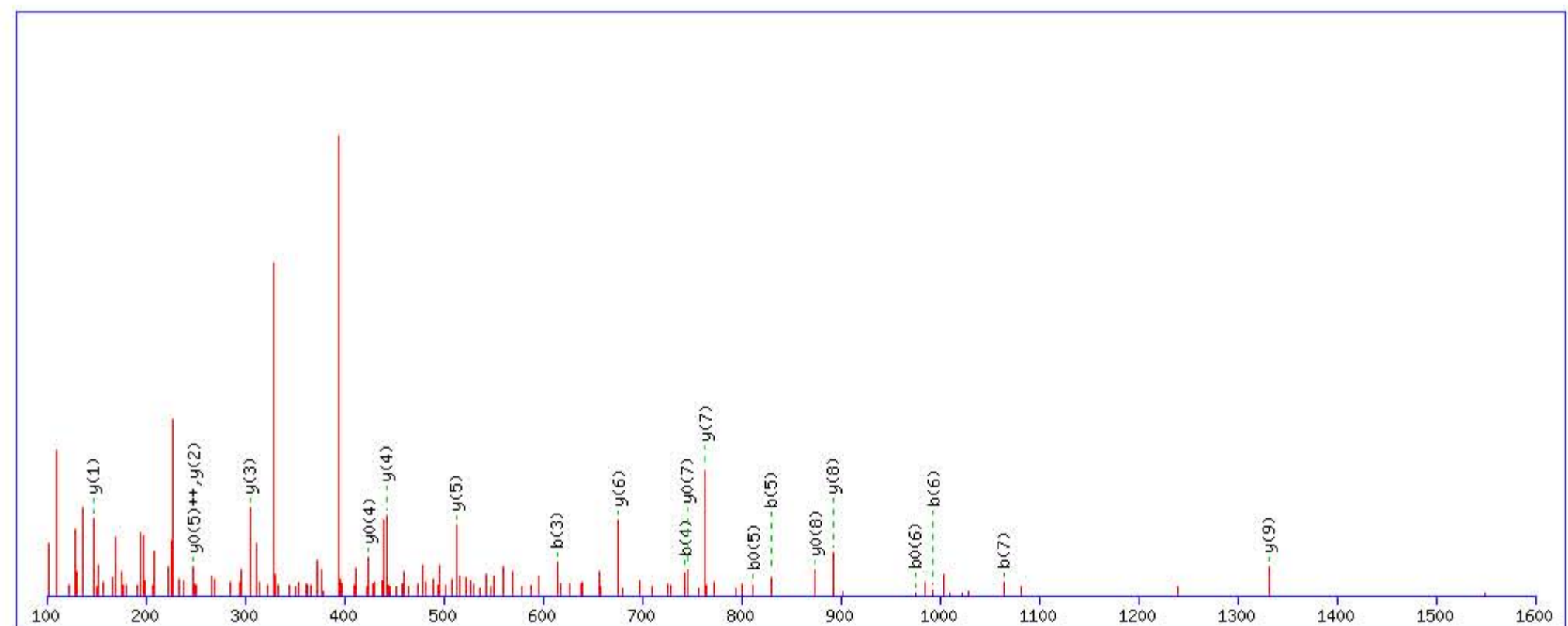
Title: Locus:1.1.1.3000.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1504.698013

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

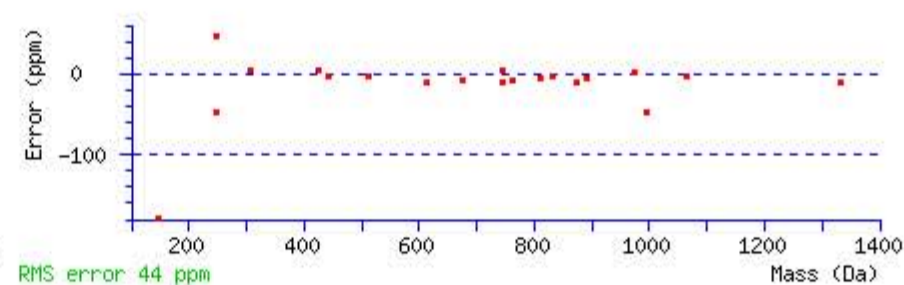
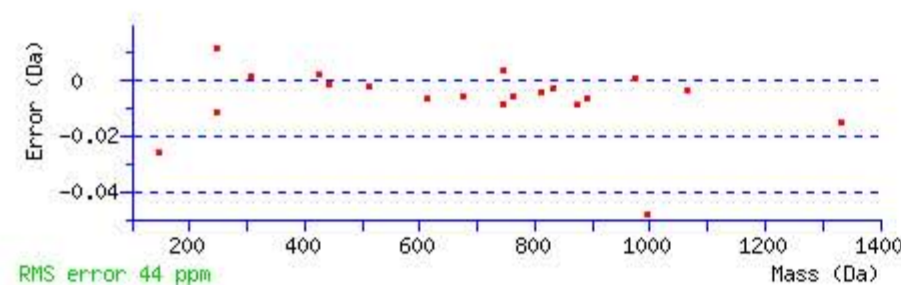
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 45 Expect: 0.00035

Matches : 20/114 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							11
2	175.071332	88.039304			157.060767	79.034021	S	1418.673277	709.840276	1401.646728	701.327002	1400.662712	700.834994	10
3	<b>614.296658</b>	307.651967	597.270109	299.138692	596.286093	298.646684	Q	<b>1331.641249</b>	666.324263	1314.614700	657.810988	1313.630684	657.318980	9
4	<b>743.339251</b>	372.173264	726.312702	363.659989	725.328686	363.167981	E	<b>892.415923</b>	446.711600	875.389374	438.198325	<b>874.405358</b>	437.706317	8
5	<b>830.371279</b>	415.689278	813.344730	407.176003	<b>812.360714</b>	406.683995	S	<b>763.373330</b>	382.190303	746.346781	373.677029	<b>745.362765</b>	373.185021	7
6	<b>993.434608</b>	497.220942	976.408059	488.707668	<b>975.424043</b>	488.215660	Y	<b>676.341302</b>	338.674289	659.314753	330.161015	658.330737	329.669007	6
7	<b>1064.471722</b>	532.739499	1047.445173	524.226225	1046.461157	523.734217	A	<b>513.277973</b>	257.142625	496.251424	248.629350	495.267408	<b>248.137342</b>	5
8	1201.530634	601.268955	1184.504085	592.755681	1183.520069	592.263672	H	<b>442.240859</b>	221.624067	425.214310	213.110793	<b>424.230294</b>	212.618785	4
9	1258.552098	629.779687	1241.525549	621.266413	1240.541533	620.774404	G	<b>305.181947</b>	153.094611	288.155398	144.581337	287.171382	144.089329	3
10	1359.599777	680.303526	1342.573228	671.790252	1341.589212	671.298244	T	<b>248.160483</b>	124.583879	231.133934	116.070605	230.149918	115.578597	2
11							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [SSQESYAHGTK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
45.3	1504.698013	-0.003001	<a href="#">SSQESYAHGTK</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **TGDEITYQCR**

Found in **CFAH\_HUMAN**, Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4

Match to Query 28538: 1552.691508 from(777.353030,2+) rtinseconds(1715) index(17210)

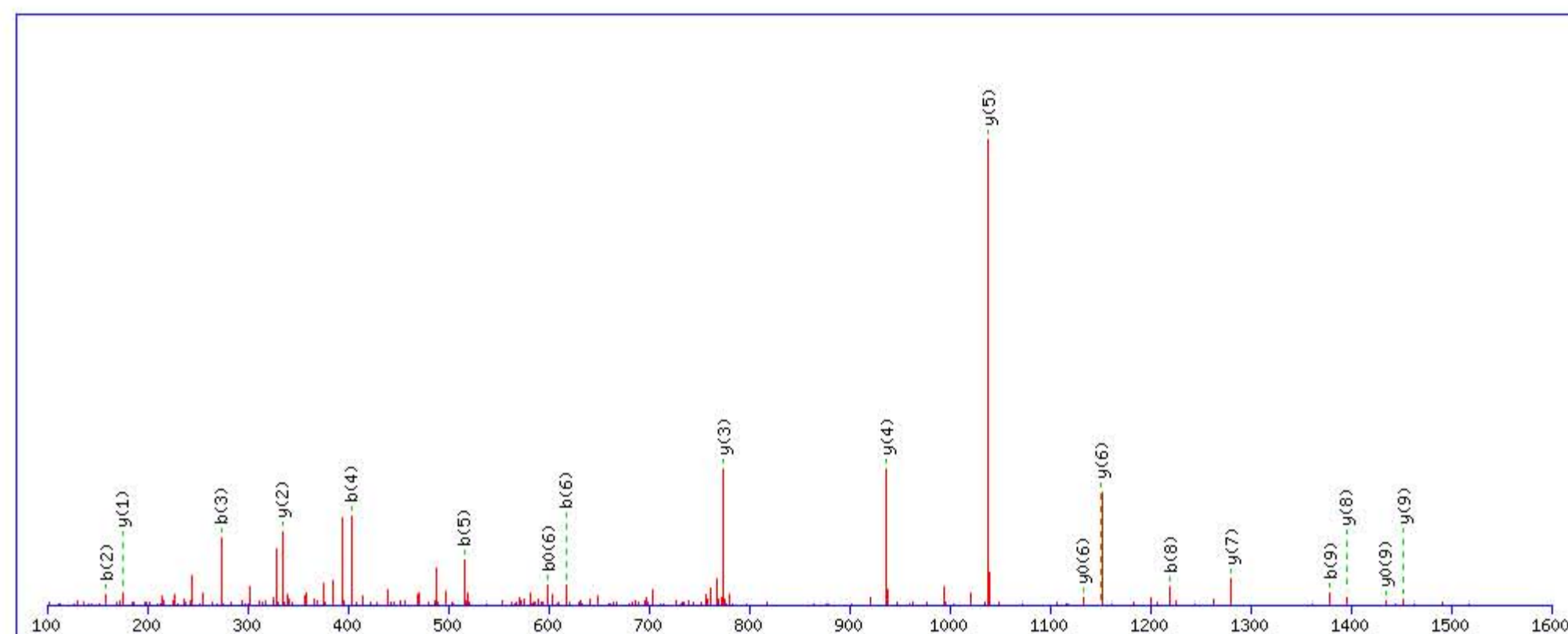
Title: Locus:1.1.1.3163.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1552.701401

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

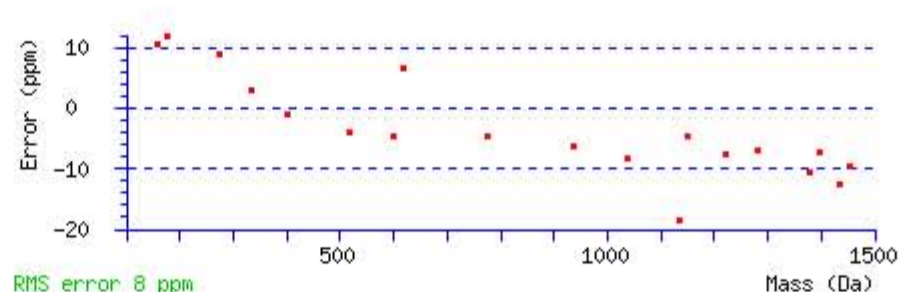
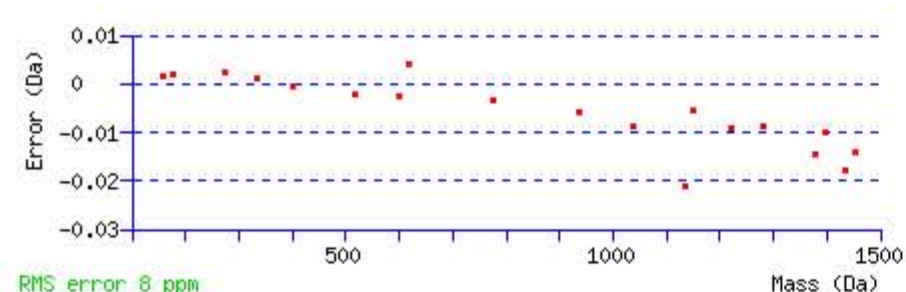
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 72 Expect: 4.7e-007

Matches : 19/86 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							10
2	<b>159.076419</b>	80.041847			141.065854	71.036565	G	<b>1452.660999</b>	726.834138	1435.634450	718.320863	<b>1434.650434</b>	717.828855	9
3	<b>274.103362</b>	137.555319			256.092797	128.550037	D	<b>1395.639535</b>	698.323406	1378.612986	689.810131	1377.628970	689.318123	8
4	<b>403.145955</b>	202.076616			385.135390	193.071333	E	<b>1280.612592</b>	640.809934	1263.586043	632.296660	1262.602027	631.804652	7
5	<b>516.230019</b>	258.618648			498.219454	249.613365	I	<b>1151.569999</b>	576.288638	1134.543450	567.775363	<b>1133.559434</b>	567.283355	6
6	<b>617.277698</b>	309.142487			<b>599.267133</b>	300.137205	T	<b>1038.485935</b>	519.746606	1021.459386	511.233331	1020.475370	510.741323	5
7	780.341027	390.674152			762.330462	381.668869	Y	<b>937.438256</b>	469.222766	920.411707	460.709492			4
8	<b>1219.566353</b>	610.286815	1202.539804	601.773540	1201.555788	601.281532	Q	<b>774.374927</b>	387.691102	757.348378	379.177827			3
9	<b>1379.597002</b>	690.302139	1362.570453	681.788865	1361.586437	681.296857	C	<b>335.149601</b>	168.078438	318.123052	159.565164			2
10							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [TGDEITYQCR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
71.8	1552.701401	-0.009893	<a href="#">TGDEITYQCR</a>
6.0	1552.712616	-0.021108	<a href="#">NVGMPVAHMESPER</a>
2.1	1552.678772	0.012736	<a href="#">DGTQCLSGSSDGTR</a>
0.8	1552.686142	0.005366	<a href="#">VMDAVMSDGNLETR</a>

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



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **WSSPPQCEGLPCK**

Found in **CFAH\_HUMAN**, Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4

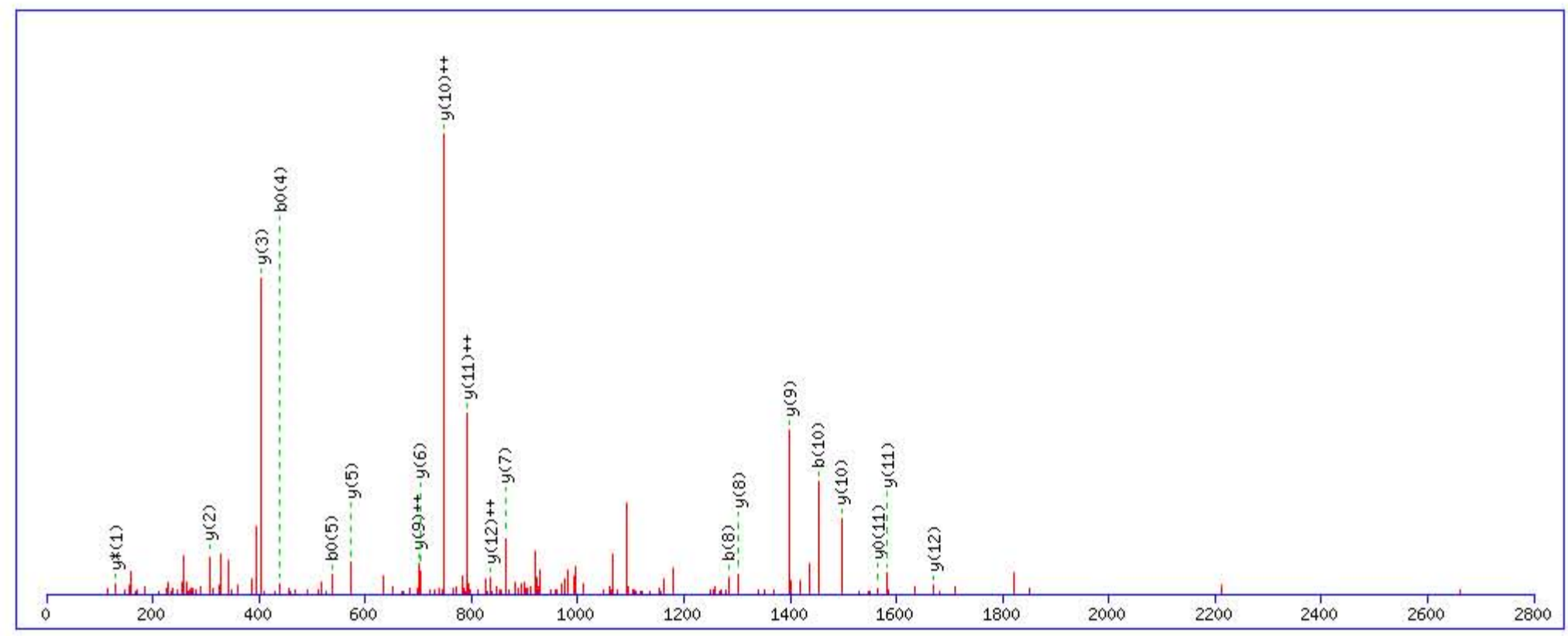
Match to Query 36842: 1855.836888 from(928.925720,2+) rtinseconds(1938) index(18648)  
 Title: Locus:1.1.1.3240.25 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1855.841934

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

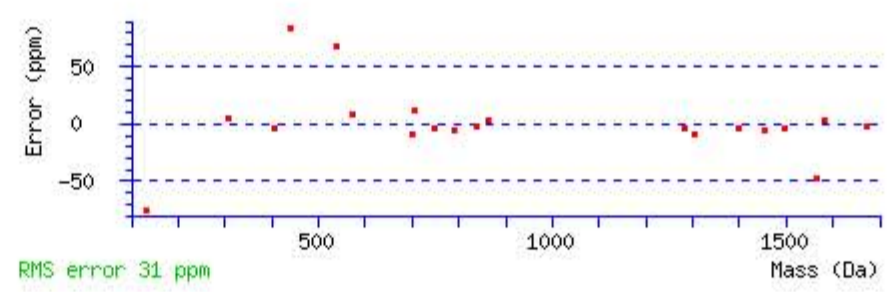
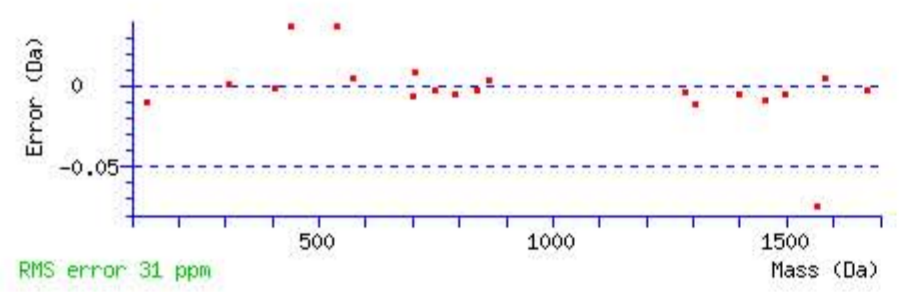
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 70 Expect: 4.1e-007

Matches : 20/122 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	187.086589	94.046932					W							13
2	274.118617	137.562947			256.108052	128.557664	S	1670.769897	835.888587	1653.743348	827.375312	1652.759332	826.883304	12
3	361.150645	181.078960			343.140080	172.073678	S	1583.737869	792.372573	1566.711320	783.859298	1565.727304	783.367290	11
4	458.203409	229.605343			440.192844	220.600060	P	1496.705841	748.856559	1479.679292	740.343284	1478.695276	739.851276	10
5	555.256173	278.131725			537.245608	269.126442	P	1399.653077	700.330177	1382.626528	691.816902	1381.642512	691.324894	9
6	994.481499	497.744388	977.454950	489.231113	976.470934	488.739105	Q	1302.600313	651.803795	1285.573764	643.290520	1284.589748	642.798512	8
7	1154.512148	577.759712	1137.485599	569.246438	1136.501583	568.754430	C	863.374987	432.191132	846.348438	423.677857	845.364422	423.185849	7
8	1283.554741	642.281009	1266.528192	633.767734	1265.544176	633.275726	E	703.344338	352.175807	686.317789	343.662533	685.333773	343.170525	6
9	1340.576205	670.791741	1323.549656	662.278466	1322.565640	661.786458	G	574.301745	287.654511	557.275196	279.141236			5
10	1453.660269	727.333773	1436.633720	718.820498	1435.649704	718.328490	L	517.280281	259.143779	500.253732	250.630504			4
11	1550.713033	775.860155	1533.686484	767.346880	1532.702468	766.854872	P	404.196217	202.601747	387.169668	194.088472			3
12	1710.743682	855.875479	1693.717133	847.362205	1692.733117	846.870197	C	307.143453	154.075365	290.116904	145.562090			2
13							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **WSSPPQCEGLPCK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
70.2	1855.841934	-0.005046	<a href="#">WSSPPQCEGLPCK</a>
2.1	1855.848465	-0.011577	<a href="#">FGGQDIFMTEEQK</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **AGEQVITYTCATYYK**

Found in **CFAH\_HUMAN**, Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4

Match to Query 38680: 1964.892648 from(983.453600,2+) rtinseconds(1883) index(18173)

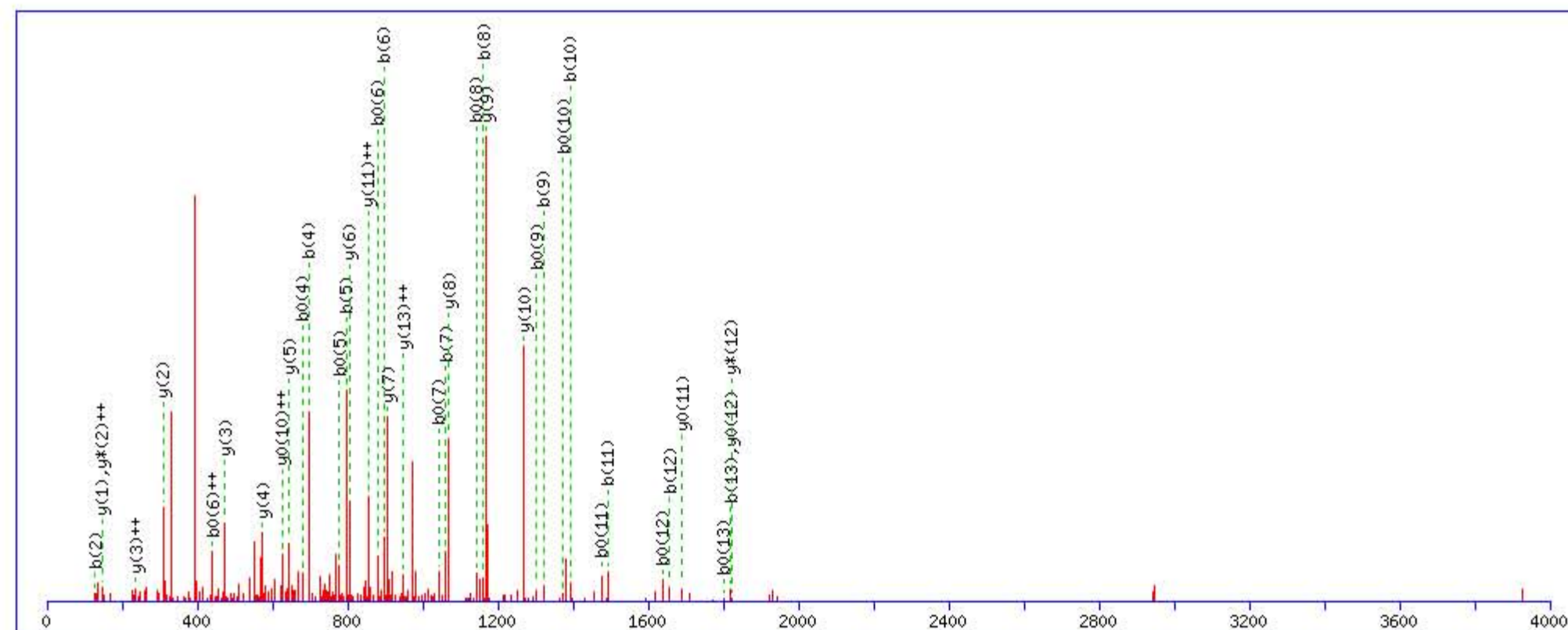
Title: Locus:1.1.1.3221.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1964.901215

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

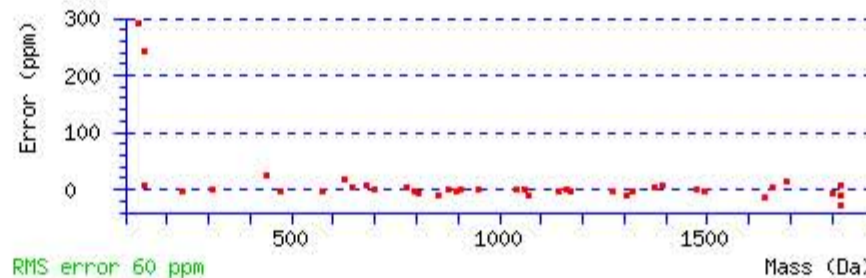
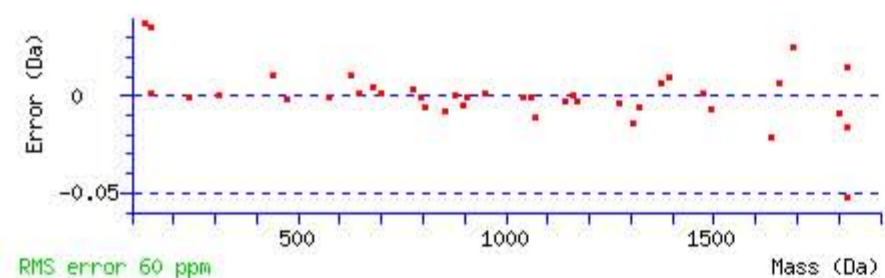
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 63 Expect: 1.4e-006

Matches : 40/140 fragment ions using 70 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							14
2	<b>129.065854</b>	65.036565					G	1894.871388	<b>947.939332</b>	1877.844839	939.426058	1876.860823	938.934050	13
3	258.108447	129.557862			240.097882	120.552579	E	1837.849924	919.428600	<b>1820.823375</b>	910.915326	<b>1819.839359</b>	910.423318	12
4	<b>697.333773</b>	349.170525	680.307224	340.657250	<b>679.323208</b>	340.165242	Q	1708.807331	<b>854.907304</b>	1691.780782	846.394029	<b>1690.796766</b>	845.902021	11
5	<b>796.402187</b>	398.704732	779.375638	390.191457	<b>778.391622</b>	389.699449	V	<b>1269.582005</b>	635.294641	1252.555456	626.781366	1251.571440	<b>626.289358</b>	10
6	<b>897.449866</b>	449.228571	880.423317	440.715297	<b>879.439301</b>	<b>440.223289</b>	T	<b>1170.513591</b>	585.760434	1153.487042	577.247159	1152.503026	576.755151	9
7	<b>1060.513195</b>	530.760236	1043.486646	522.246961	<b>1042.502630</b>	521.754953	Y	<b>1069.465912</b>	535.236594	1052.439363	526.723320	1051.455347	526.231312	8
8	<b>1161.560874</b>	581.284075	1144.534325	572.770801	<b>1143.550309</b>	572.278793	T	<b>906.402583</b>	453.704930	889.376034	445.191655	888.392018	444.699647	7
9	<b>1321.591523</b>	661.299400	1304.564974	652.786125	<b>1303.580958</b>	652.294117	C	<b>805.354904</b>	403.181090	788.328355	394.667816	787.344339	394.175808	6
10	<b>1392.628637</b>	696.817957	1375.602088	688.304682	<b>1374.618072</b>	687.812674	A	<b>645.324255</b>	323.165766	628.297706	314.652491	627.313690	314.160483	5
11	<b>1493.676316</b>	747.341796	1476.649767	738.828522	<b>1475.665751</b>	738.336514	T	<b>574.287141</b>	287.647209	557.260592	279.133934	556.276576	278.641926	4
12	<b>1656.739645</b>	828.873461	1639.713096	820.360186	<b>1638.729080</b>	819.868178	Y	<b>473.239462</b>	<b>237.123369</b>	456.212913	228.610095			3
13	<b>1819.802974</b>	910.405125	1802.776425	901.891851	<b>1801.792409</b>	901.399843	Y	<b>310.176133</b>	155.591705	293.149584	<b>147.078430</b>			2
14							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **AGEQVITYTCATYYK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
63.2	1964.901215	-0.008567	<a href="#">AGEQVITYTCATYYK</a>
0.8	1964.883255	0.009393	<a href="#">RTHSGEKPYECKECKGK</a>
0.1	1964.900574	-0.007926	<a href="#">YCSTSLVKCASGTMGSIK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **DTSCVNPPTVQNAYIVSR**

Found in **CFAH\_HUMAN**, Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4

Match to Query 45637: 2331.139992 from(778.053940,3+) rtinseconds(2131) index(19801)

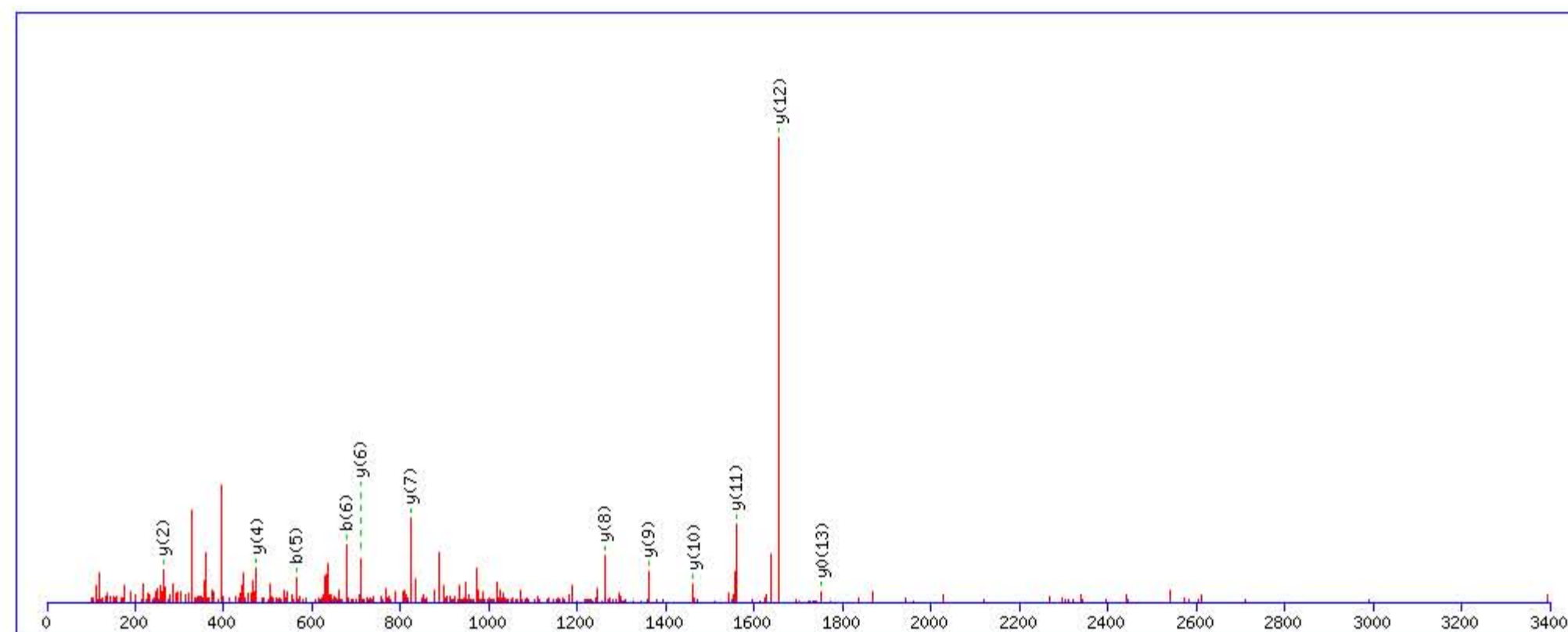
Title: Locus:1.1.1.3307.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2331.135147

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

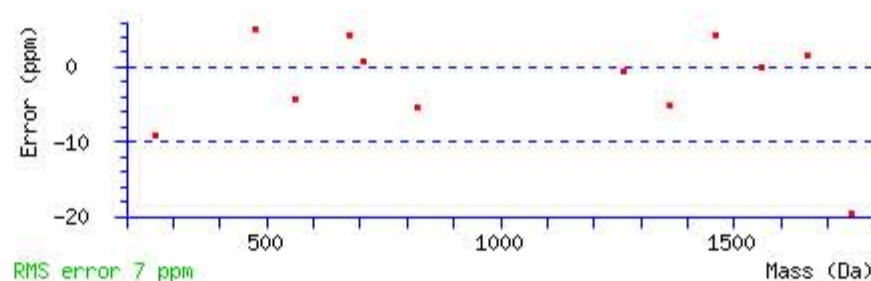
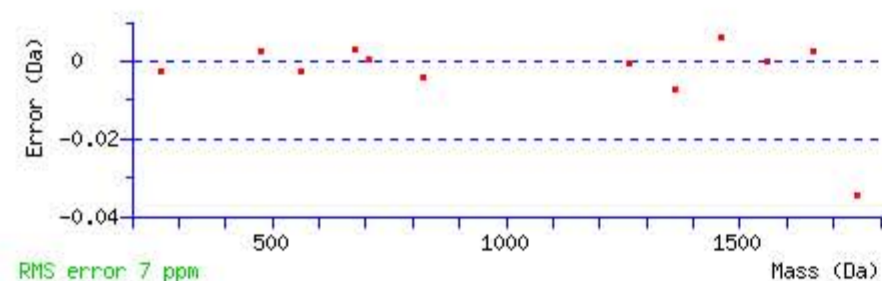
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 49 Expect: 0.00029

Matches : 12/192 fragment ions using 23 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							18
2	217.081898	109.044587			199.071333	100.039304	T	2217.115472	1109.061374	2200.088923	1100.548099	2199.104907	1100.056091	17
3	304.113926	152.560601			286.103361	143.555319	S	2116.067793	1058.537534	2099.041244	1050.024260	2098.057228	1049.532252	16
4	464.144575	232.575925			446.134010	223.570643	C	2029.035765	1015.021521	2012.009216	1006.508246	2011.025200	1006.016238	15
5	<b>563.212989</b>	282.110133			545.202424	273.104850	V	1869.005116	935.006196	1851.978567	926.492922	1850.994551	926.000914	14
6	<b>677.255916</b>	339.131596	660.229367	330.618321	659.245351	330.126313	N	1769.936702	885.471989	1752.910153	876.958715	<b>1751.926137</b>	876.466707	13
7	774.308680	387.657978	757.282131	379.144703	756.298115	378.652695	P	<b>1655.893775</b>	828.450526	1638.867226	819.937251	1637.883210	819.445243	12
8	871.361444	436.184360	854.334895	427.671086	853.350879	427.179078	P	<b>1558.841011</b>	779.924144	1541.814462	771.410869	1540.830446	770.918861	11
9	972.409123	486.708200	955.382574	478.194925	954.398558	477.702917	T	<b>1461.788247</b>	731.397762	1444.761698	722.884487	1443.777682	722.392479	10
10	1071.477537	536.242407	1054.450988	527.729132	1053.466972	527.237124	V	<b>1360.740568</b>	680.873922	1343.714019	672.360648	1342.730003	671.868639	9
11	1510.702863	755.855070	1493.676314	747.341795	1492.692298	746.849787	Q	<b>1261.672154</b>	631.339715	1244.645605	622.826441	1243.661589	622.334433	8
12	1624.745790	812.876533	1607.719241	804.363259	1606.735225	803.871251	N	<b>822.446828</b>	411.727052	805.420279	403.213777	804.436263	402.721769	7
13	1695.782904	848.395090	1678.756355	839.881816	1677.772339	839.389808	A	<b>708.403901</b>	354.705588	691.377352	346.192314	690.393336	345.700306	6
14	1858.846233	929.926755	1841.819684	921.413480	1840.835668	920.921472	Y	637.366787	319.187031	620.340238	310.673757	619.356222	310.181749	5
15	1971.930297	986.468787	1954.903748	977.955512	1953.919732	977.463504	I	<b>474.303458</b>	237.655367	457.276909	229.142092	456.292893	228.650084	4
16	2070.998711	1036.002993	2053.972162	1027.489719	2052.988146	1026.997711	V	361.219394	181.113335	344.192845	172.600060	343.208829	172.108052	3
17	2158.030739	1079.519007	2141.004190	1071.005733	2140.020174	1070.513725	S	<b>262.150980</b>	131.579128	245.124431	123.065854	244.140415	122.573846	2
18							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [DTSCVNPPTVQNAYIVSR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
49.2	2331.135147	0.004845	<a href="#">DTSCVNPPTVQNAYIVSR</a>

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

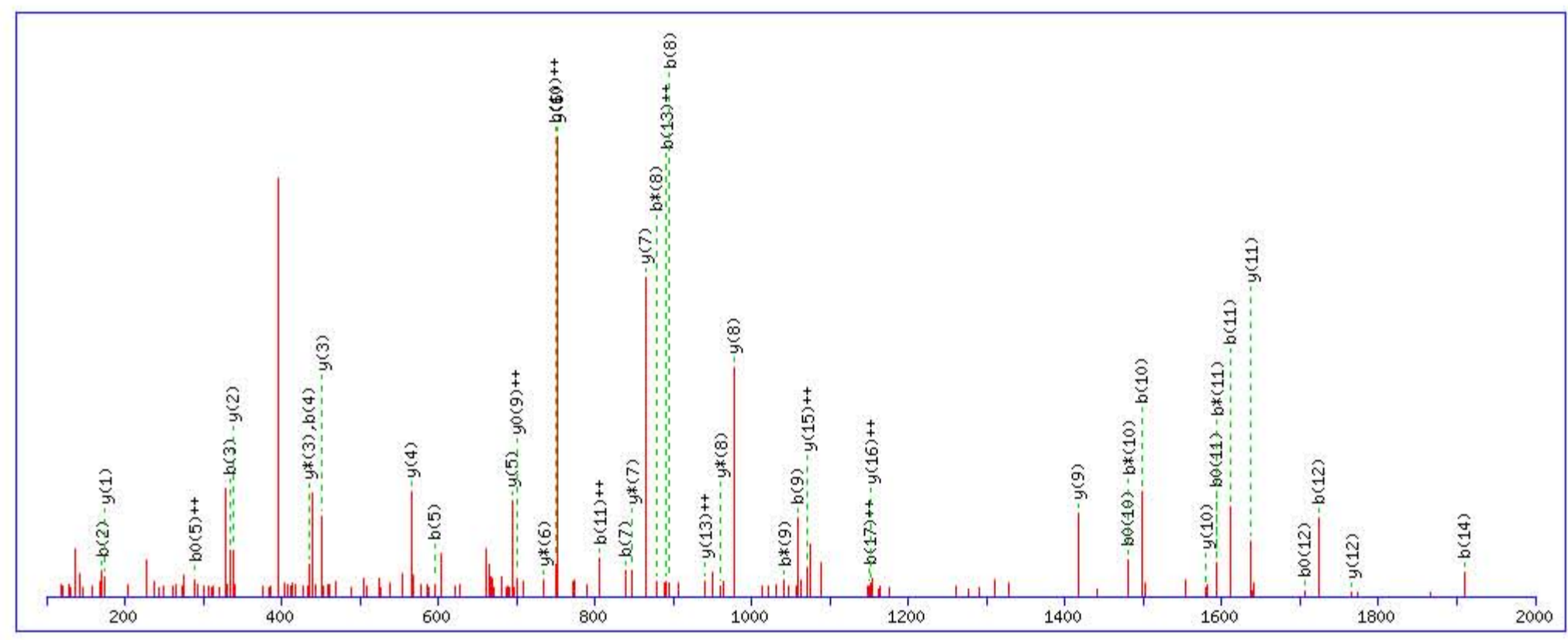
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AVYTCNEGYQLLGEINYS**  
 Found in **CFAH\_HUMAN**, Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4

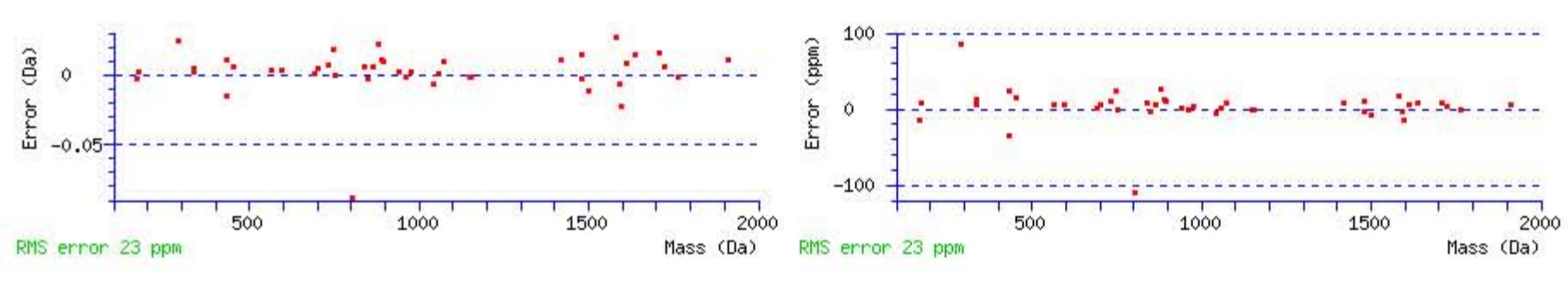
Match to Query 47783: 2473.193352 from(825.405060,3+) rtinseconds(2558) index(22076)  
 Title: Locus:1.1.1.3456.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2473.176971  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q10 : Biotin:Thermo-21345 (Q)  
 Ions Score: 52 Expect: 0.00017  
 Matches : 43/180 fragment ions using 104 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							18
2	<b>171.112804</b>	86.060040					V	2403.147167	1202.077221	2386.120618	1193.563947	2385.136602	1193.071939	17
3	<b>334.176133</b>	167.591704					Y	2304.078753	<b>1152.543014</b>	2287.052204	1144.029740	2286.068188	1143.537732	16
4	<b>435.223812</b>	218.115544			417.213247	209.110262	T	2141.015424	<b>1071.011350</b>	2123.988875	1062.498075	2123.004859	1062.006067	15
5	<b>595.254461</b>	298.130869			577.243896	<b>289.125586</b>	C	2039.967745	1020.487511	2022.941196	1011.974236	2021.957180	1011.482228	14
6	709.297388	355.152332	692.270839	346.639058	691.286823	346.147050	N	1879.937096	<b>940.472186</b>	1862.910547	931.958912	1861.926531	931.466903	13
7	<b>838.339981</b>	419.673629	821.313432	411.160354	820.329416	410.668346	E	<b>1765.894169</b>	883.450722	1748.867620	874.937448	1747.883604	874.445440	12
8	<b>895.361445</b>	448.184361	<b>878.334896</b>	439.671086	877.350880	439.179078	G	<b>1636.851576</b>	818.929426	1619.825027	810.416152	1618.841011	809.924144	11
9	<b>1058.424774</b>	529.716025	<b>1041.398225</b>	521.202751	1040.414209	520.710743	Y	<b>1579.830112</b>	790.418694	1562.803563	781.905419	1561.819547	781.413411	10
10	<b>1497.650100</b>	<b>749.328688</b>	<b>1480.623551</b>	740.815414	<b>1479.639535</b>	740.323406	Q	<b>1416.766783</b>	708.887030	1399.740234	700.373755	1398.756218	<b>699.881747</b>	9
11	<b>1610.734164</b>	<b>805.870720</b>	<b>1593.707615</b>	797.357446	<b>1592.723599</b>	796.865437	L	<b>977.541457</b>	489.274367	<b>960.514908</b>	480.761092	959.530892	480.269084	8
12	<b>1723.818228</b>	862.412752	1706.791679	853.899477	<b>1705.807663</b>	853.407469	L	<b>864.457393</b>	432.732335	<b>847.430844</b>	424.219060	846.446828	423.727052	7
13	1780.839692	<b>890.923484</b>	1763.813143	882.410209	1762.829127	881.918201	G	<b>751.373329</b>	376.190303	<b>734.346780</b>	367.677028	733.362764	367.185020	6
14	<b>1909.882285</b>	955.444780	1892.855736	946.931506	1891.871720	946.439498	E	<b>694.351865</b>	347.679571	677.325316	339.166296	676.341300	338.674288	5
15	2022.966349	1011.986812	2005.939800	1003.473538	2004.955784	1002.981530	I	<b>565.309272</b>	283.158274	548.282723	274.645000			4
16	2137.009276	1069.008276	2119.982727	1060.495001	2118.998711	1060.002993	N	<b>452.225208</b>	226.616242	<b>435.198659</b>	218.102968			3
17	2300.072605	<b>1150.539940</b>	2283.046056	1142.026666	2282.062040	1141.534658	Y	<b>338.182281</b>	169.594778	321.155732	161.081504			2
18							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **AVYTCNEGYQLLGEINYS**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
51.6	2473.176971	0.016381	<a href="#">AVYTCNEGYQLLGEINYS</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **IVSSAMEPDREYHFGQAVR**

Found in **CFAH\_HUMAN**, Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4

Match to Query 48527: 2502.207656 from(626.559190,4+) rtinseconds(1864) index(18070)

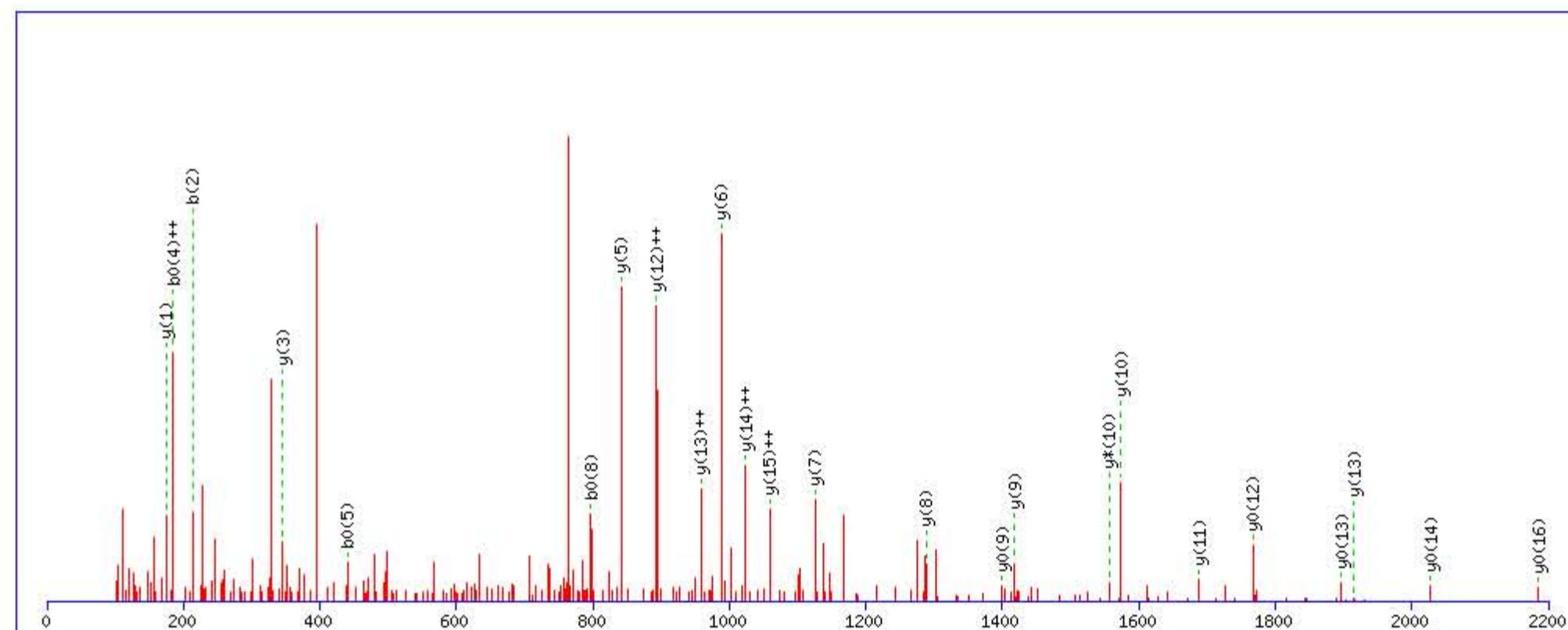
Title: Locus:1.1.1.3215.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2502.214767

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

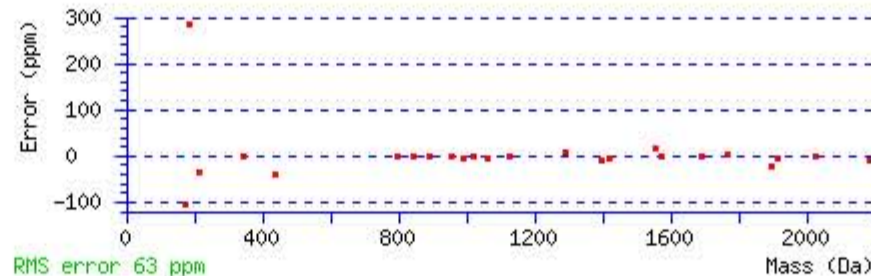
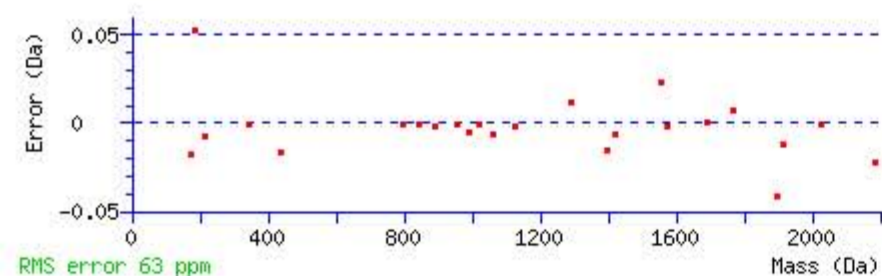
Variable modifications:

Q16 : Biotin:Thermo-21345 (Q)

Ions Score: 30 Expect: 0.021

Matches : 24/178 fragment ions using 59 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							19
2	<b>213.159754</b>	107.083515					V	2390.137998	1195.572637	2373.111449	1187.059362	2372.127433	1186.567354	18
3	300.191782	150.599529			282.181217	141.594247	S	2291.069584	1146.038430	2274.043035	1137.525155	2273.059019	1137.033147	17
4	387.223810	194.115543			369.213245	<b>185.110261</b>	S	2204.037556	1102.522416	2187.011007	1094.009141	<b>2186.026991</b>	1093.517133	16
5	458.260924	229.634100			<b>440.250359</b>	220.628818	A	2117.005528	<b>1059.006402</b>	2099.978979	1050.493127	2098.994963	1050.001119	15
6	589.301409	295.154343			571.290844	286.149060	M	2045.968414	<b>1023.487845</b>	2028.941865	1014.974571	<b>2027.957849</b>	1014.482563	14
7	718.344002	359.675639			700.333437	350.670357	E	<b>1914.927929</b>	<b>957.967603</b>	1897.901380	949.454328	<b>1896.917364</b>	948.962320	13
8	815.396766	408.202021			<b>797.386201</b>	399.196739	P	1785.885336	<b>893.446306</b>	1768.858787	884.933032	<b>1767.874771</b>	884.441024	12
9	930.423709	465.715493			912.413144	456.710210	D	<b>1688.832572</b>	844.919924	1671.806023	836.406650	1670.822007	835.914642	11
10	1086.524820	543.766048	1069.498271	535.252774	1068.514255	534.760766	R	<b>1573.805629</b>	787.406453	<b>1556.779080</b>	778.893178	1555.795064	778.401170	10
11	1215.567413	608.287345	1198.540864	599.774070	1197.556848	599.282062	E	<b>1417.704518</b>	709.355897	1400.677969	700.842623	<b>1399.693953</b>	700.350615	9
12	1378.630742	689.819009	1361.604193	681.305735	1360.620177	680.813727	Y	<b>1288.661925</b>	644.834601	1271.635376	636.321326			8
13	1515.689654	758.348465	1498.663105	749.835191	1497.679089	749.343183	H	<b>1125.598596</b>	563.302936	1108.572047	554.789662			7
14	1662.758068	831.882672	1645.731519	823.369398	1644.747503	822.877390	F	<b>988.539684</b>	494.773480	971.513135	486.260206			6
15	1719.779532	860.393404	1702.752983	851.880130	1701.768967	851.388122	G	<b>841.471270</b>	421.239273	824.444721	412.725999			5
16	2159.004858	1080.006067	2141.978309	1071.492792	2140.994293	1071.000784	Q	784.449806	392.728541	767.423257	384.215267			4
17	2230.041972	1115.524624	2213.015423	1107.011349	2212.031407	1106.519341	A	<b>345.224480</b>	173.115878	328.197931	164.602603			3
18	2329.110386	1165.058831	2312.083837	1156.545556	2311.099821	1156.053548	V	274.187366	137.597321	257.160817	129.084046			2
19							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **IVSSAMEPDREYHFGQAVR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
30.1	2502.214767	-0.007111	<a href="#">IVSSAMEPDREYHFGQAVR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SITCIHGVWTQLPQCVAIDK**

Found in **CFAH\_HUMAN**, Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4

Match to Query 49829: 2636.335062 from(879.785630,3+) rtinseconds(2386) index(21131)

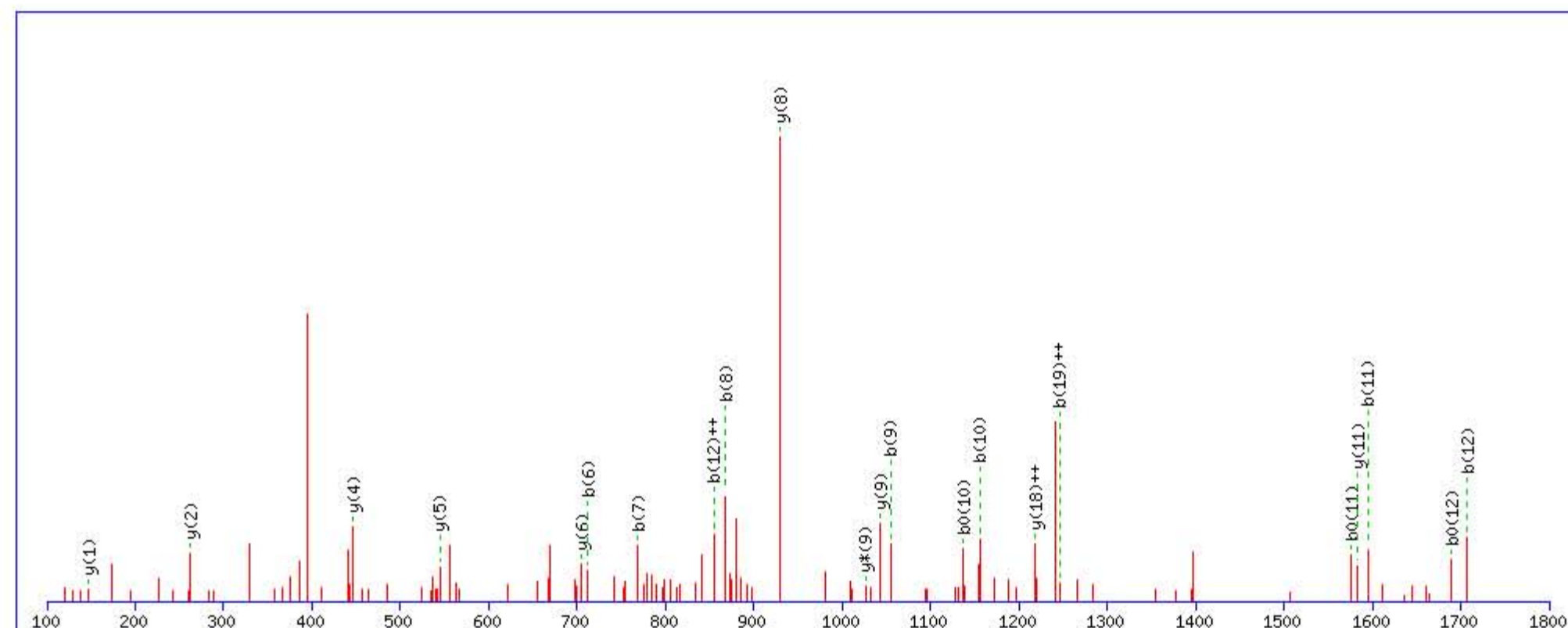
Title: Locus:1.1.1.3396.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2636.327728

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

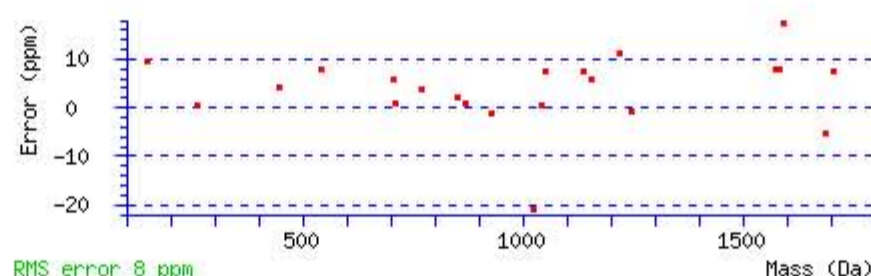
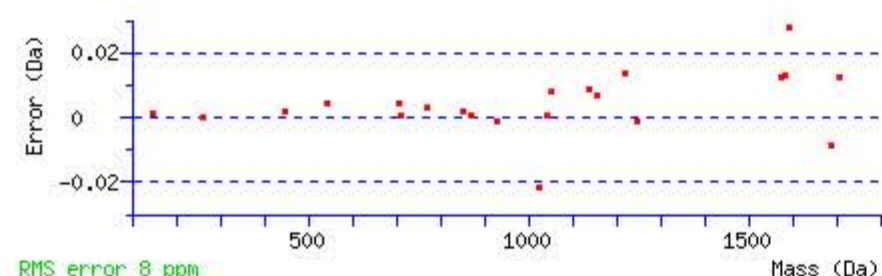
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 38 Expect: 0.0042

Matches : 22/206 fragment ions using 46 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							20
2	201.123368	101.065322			183.112803	92.060039	I	2550.302958	1275.655117	2533.276409	1267.141842	2532.292393	1266.649834	19
3	302.171047	151.589161			284.160482	142.583879	T	2437.218894	<b>1219.113085</b>	2420.192345	1210.599810	2419.208329	1210.107802	18
4	462.201696	231.604486			444.191131	222.599204	C	2336.171215	1168.589245	2319.144666	1160.075971	2318.160650	1159.583963	17
5	575.285760	288.146518			557.275195	279.141236	I	2176.140566	1088.573921	2159.114017	1080.060646	2158.130001	1079.568638	16
6	<b>712.344672</b>	356.675974			694.334107	347.670692	H	2063.056502	1032.031889	2046.029953	1023.518614	2045.045937	1023.026606	15
7	<b>769.366136</b>	385.186706			751.355571	376.181424	G	1925.997590	963.502433	1908.971041	954.989159	1907.987025	954.497151	14
8	<b>868.434550</b>	434.720913			850.423985	425.715631	V	1868.976126	934.991701	1851.949577	926.478427	1850.965561	925.986419	13
9	<b>1054.513863</b>	527.760570			1036.503298	518.755287	W	1769.907712	885.457494	1752.881163	876.944220	1751.897147	876.452211	12
10	<b>1155.561542</b>	578.284409			<b>1137.550977</b>	569.279127	T	<b>1583.828399</b>	792.417838	1566.801850	783.904563	1565.817834	783.412555	11
11	<b>1594.786868</b>	797.897072	1577.760319	789.383798	<b>1576.776303</b>	788.891790	Q	1482.780720	741.893998	1465.754171	733.380724	1464.770155	732.888715	10
12	<b>1707.870932</b>	<b>854.439104</b>	1690.844383	845.925830	<b>1689.860367</b>	845.433822	L	<b>1043.555394</b>	522.281335	<b>1026.528845</b>	513.768060	1025.544829	513.276052	9
13	1804.923696	902.965486	1787.897147	894.452212	1786.913131	893.960204	P	<b>930.471330</b>	465.739303	913.444781	457.226028	912.460765	456.734020	8
14	1932.982274	966.994775	1915.955725	958.481501	1914.971709	957.989493	Q	833.418566	417.212921	816.392017	408.699646	815.408001	408.207638	7
15	2093.012923	1047.010099	2075.986374	1038.496825	2075.002358	1038.004817	C	<b>705.359988</b>	353.183632	688.333439	344.670357	687.349423	344.178349	6
16	2192.081337	1096.544306	2175.054788	1088.031032	2174.070772	1087.539024	V	<b>545.329339</b>	273.168308	528.302790	264.655033	527.318774	264.163025	5
17	2263.118451	1132.062863	2246.091902	1123.549589	2245.107886	1123.057581	A	<b>446.260925</b>	223.634101	429.234376	215.120826	428.250360	214.628818	4
18	2376.202515	1188.604895	2359.175966	1180.091621	2358.191950	1179.599613	I	375.223811	188.115543	358.197262	179.602269	357.213246	179.110261	3
19	2491.229458	<b>1246.118367</b>	2474.202909	1237.605092	2473.218893	1237.113084	D	<b>262.139747</b>	131.573511	245.113198	123.060237	244.129182	122.568229	2
20							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [SITCIHGVWTQLPQCVAIDK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
38.3	2636.327728	0.007334	<a href="#">SITCIHGVWTQLPQCVAIDK</a>
31.5	2636.327728	0.007334	<a href="#">SITCIHGVWTQLPQCVAIDK</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **SITCIHGVWTQLPQCVAIDK**

Found in **CFAH\_HUMAN**, Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4

Match to Query 49832: 2636.337342 from(879.786390,3+) rtinseconds(2411) index(21306)

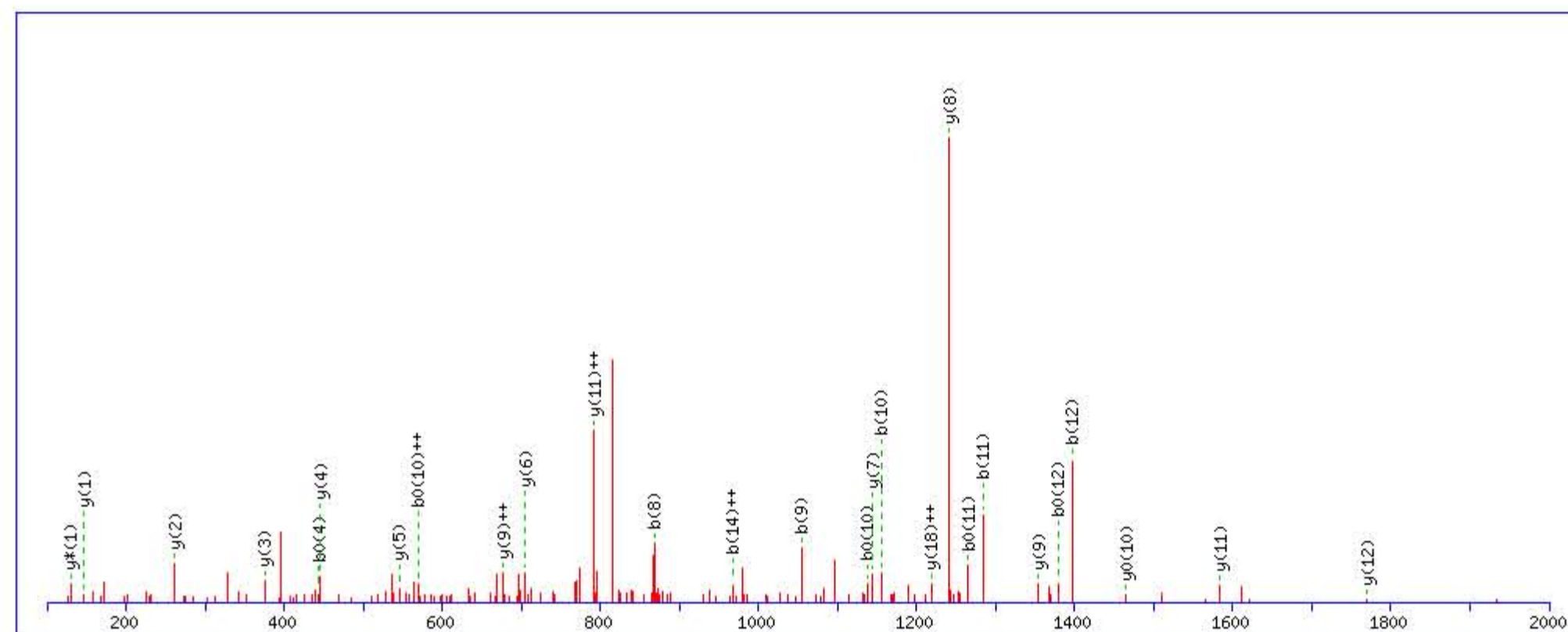
Title: Locus:1.1.1.3405.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2636.327728

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

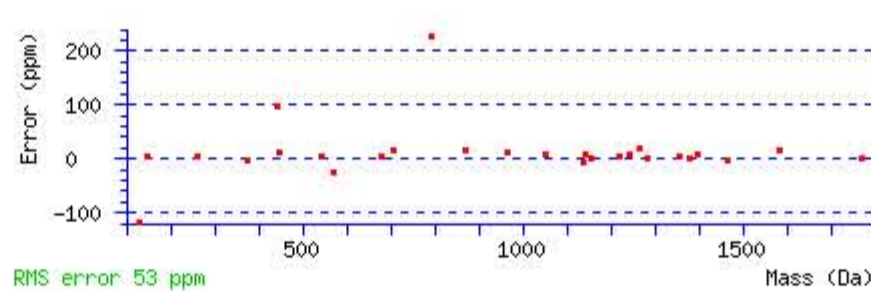
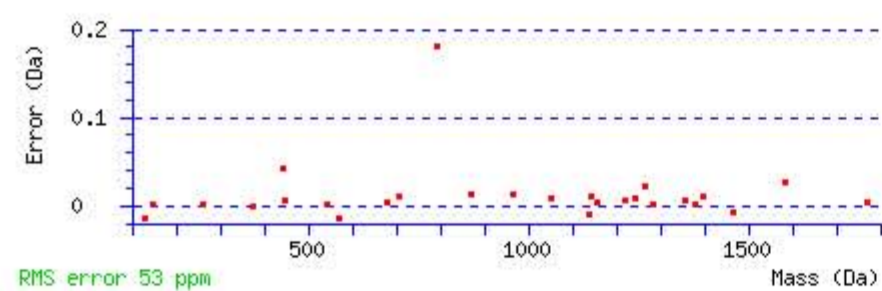
Variable modifications:

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 44 Expect: 9e-005

Matches : 27/206 fragment ions using 61 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							20
2	201.123368	101.065322			183.112803	92.060039	I	2550.302958	1275.655117	2533.276409	1267.141842	2532.292393	1266.649834	19
3	302.171047	151.589161			284.160482	142.583879	T	2437.218894	1219.113085	2420.192345	1210.599810	2419.208329	1210.107802	18
4	462.201696	231.604486			444.191131	222.599204	C	2336.171215	1168.589245	2319.144666	1160.075971	2318.160650	1159.583963	17
5	575.285760	288.146518			557.275195	279.141236	I	2176.140566	1088.573921	2159.114017	1080.060646	2158.130001	1079.568638	16
6	712.344672	356.675974			694.334107	347.670692	H	2063.056502	1032.031889	2046.029953	1023.518614	2045.045937	1023.026606	15
7	769.366136	385.186706			751.355571	376.181424	G	1925.997590	963.502433	1908.971041	954.989159	1907.987025	954.497151	14
8	868.434550	434.720913			850.423985	425.715631	V	1868.976126	934.991701	1851.949577	926.478427	1850.965561	925.986419	13
9	1054.513863	527.760570			1036.503298	518.755287	W	1769.907712	885.457494	1752.881163	876.944220	1751.897147	876.452211	12
10	1155.561542	578.284409			1137.550977	569.279127	T	1583.828399	792.417838	1566.801850	783.904563	1565.817834	783.412555	11
11	1283.620120	642.313698	1266.593571	633.800424	1265.609555	633.308416	Q	1482.780720	741.893998	1465.754171	733.380724	1464.770155	732.888715	10
12	1396.704184	698.855730	1379.677635	690.342456	1378.693619	689.850448	L	1354.722142	677.864709	1337.695593	669.351434	1336.711577	668.859426	9
13	1493.756948	747.382112	1476.730399	738.868838	1475.746383	738.376830	P	1241.638078	621.322677	1224.611529	612.809403	1223.627513	612.317394	8
14	1932.982274	966.994775	1915.955725	958.481501	1914.971709	957.989493	Q	1144.585314	572.796295	1127.558765	564.283021	1126.574749	563.791012	7
15	2093.012923	1047.010099	2075.986374	1038.496825	2075.002358	1038.004817	C	705.359988	353.183632	688.333439	344.670357	687.349423	344.178349	6
16	2192.081337	1096.544306	2175.054788	1088.031032	2174.070772	1087.539024	V	545.329339	273.168308	528.302790	264.655033	527.318774	264.163025	5
17	2263.118451	1132.062863	2246.091902	1123.549589	2245.107886	1123.057581	A	446.260925	223.634101	429.234376	215.120826	428.250360	214.628818	4
18	2376.202515	1188.604895	2359.175966	1180.091621	2358.191950	1179.599613	I	375.223811	188.115543	358.197262	179.602269	357.213246	179.110261	3
19	2491.229458	1246.118367	2474.202909	1237.605092	2473.218893	1237.113084	D	262.139747	131.573511	245.113198	123.060237	244.129182	122.568229	2
20							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [SITCIHGVWTQLPQCVAIDK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
44.5	2636.327728	0.009614	<a href="#">SITCIHGVWTQLPQCVAIDK</a>
23.9	2636.327728	0.009614	<a href="#">SITCIHGVWTQLPQCVAIDK</a>
1.3	2636.357361	-0.020019	<a href="#">RWWTLAQEITVTFNQFTK</a>
1.0	2636.301682	0.035660	<a href="#">TPDVLESSGPAVRSGLNATFMAFNR</a>
0.2	2636.366592	-0.029250	<a href="#">ASKTTDLRIPASVCTMFNVLDVAK</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VSVLCQENYLIQEGEEITCK**

Found in **CFAH\_HUMAN**, Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4

Match to Query 50605: 2722.300362 from(908.440730,3+) rtinseconds(2775) index(36460)

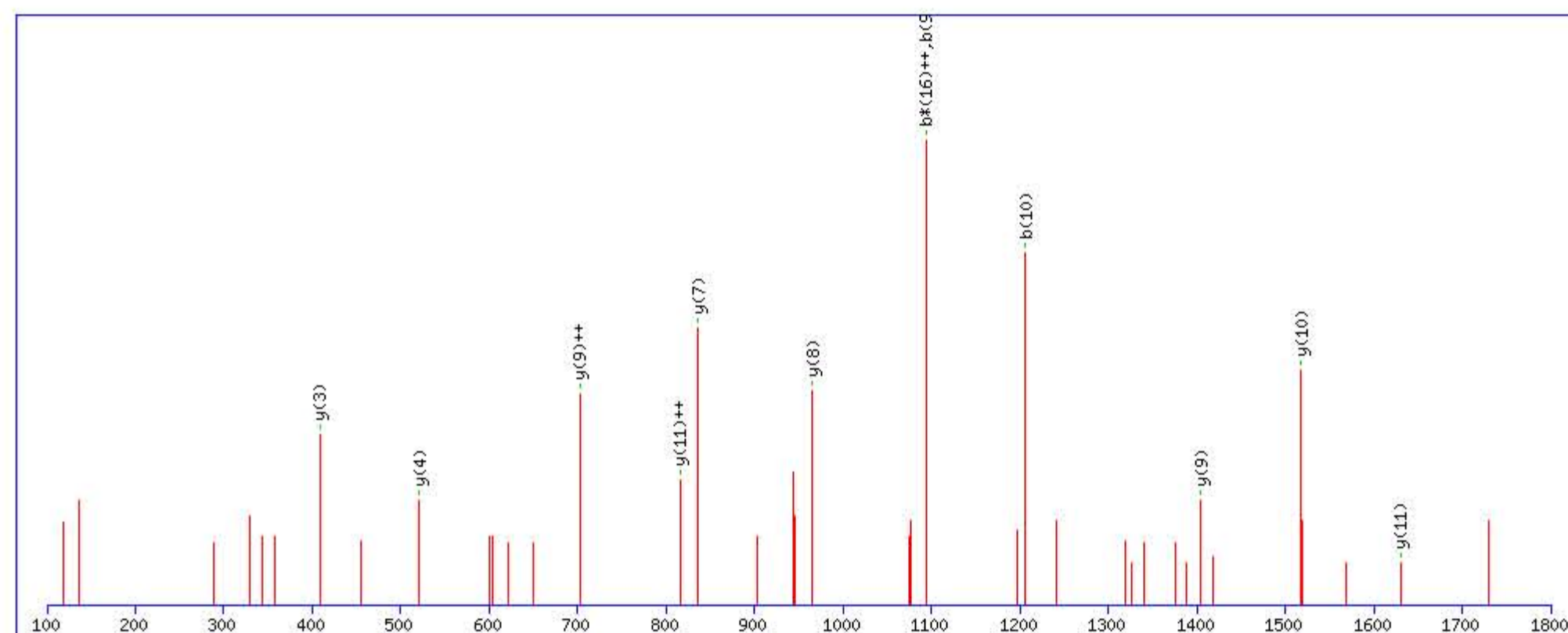
Title: Locus:1.1.1.3628.23 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2722.301590

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

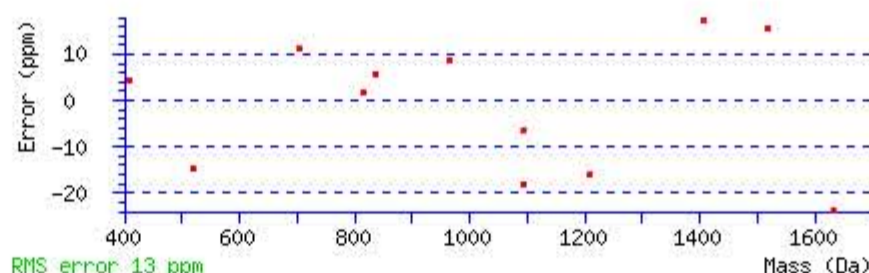
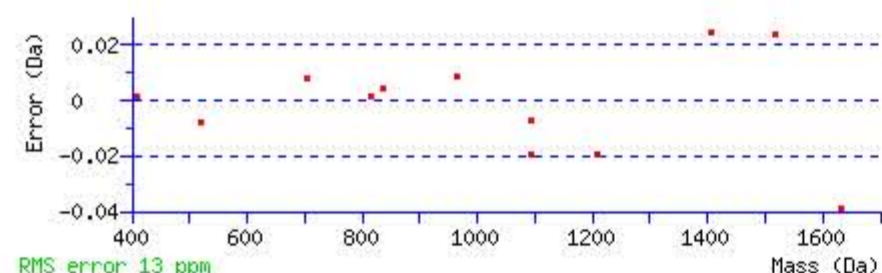
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 41 Expect: 0.0014

Matches : 12/212 fragment ions using 17 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							20
2	187.107718	94.057497			169.097153	85.052214	S	2624.240475	1312.623875	2607.213926	1304.110601	2606.229910	1303.618593	19
3	286.176132	143.591704			268.165567	134.586422	V	2537.208447	1269.107861	2520.181898	1260.594587	2519.197882	1260.102579	18
4	399.260196	200.133736			381.249631	191.128454	L	2438.140033	1219.573654	2421.113484	1211.060380	2420.129468	1210.568372	17
5	559.290845	280.149061			541.280280	271.143778	C	2325.055969	1163.031622	2308.029420	1154.518348	2307.045404	1154.026340	16
6	687.349423	344.178350	670.322874	335.665075	669.338858	335.173067	Q	2165.025320	1083.016298	2147.998771	1074.503023	2147.014755	1074.011015	15
7	816.392016	408.699646	799.365467	400.186372	798.381451	399.694364	E	2036.966742	1018.987009	2019.940193	1010.473735	2018.956177	1009.981727	14
8	930.434943	465.721110	913.408394	457.207835	912.424378	456.715827	N	1907.924149	954.465713	1890.897600	945.952438	1889.913584	945.460430	13
9	<b>1093.498272</b>	547.252774	1076.471723	538.739500	1075.487707	538.247492	Y	1793.881222	897.444249	1776.854673	888.930975	1775.870657	888.438967	12
10	<b>1206.582336</b>	603.794806	1189.555787	595.281532	1188.571771	594.789523	L	<b>1630.817893</b>	<b>815.912585</b>	1613.791344	807.399310	1612.807328	806.907302	11
11	1319.666400	660.336838	1302.639851	651.823563	1301.655835	651.331555	I	<b>1517.733829</b>	759.370553	1500.707280	750.857278	1499.723264	750.365270	10
12	1758.891726	879.949501	1741.865177	871.436227	1740.881161	870.944219	Q	<b>1404.649765</b>	<b>702.828521</b>	1387.623216	694.315246	1386.639200	693.823238	9
13	1887.934319	944.470798	1870.907770	935.957523	1869.923754	935.465515	E	<b>965.424439</b>	483.215858	948.397890	474.702583	947.413874	474.210575	8
14	1944.955783	972.981530	1927.929234	964.468255	1926.945218	963.976247	G	<b>836.381846</b>	418.694561	819.355297	410.181287	818.371281	409.689279	7
15	2073.998376	1037.502826	2056.971827	1028.989551	2055.987811	1028.497543	E	779.360382	390.183829	762.333833	381.670555	761.349817	381.178547	6
16	2203.040969	1102.024123	2186.014420	<b>1093.510848</b>	2185.030404	1093.018840	E	650.317789	325.662533	633.291240	317.149258	632.307224	316.657250	5
17	2316.125033	1158.566155	2299.098484	1150.052880	2298.114468	1149.560872	I	<b>521.275196</b>	261.141236	504.248647	252.627961	503.264631	252.135953	4
18	2417.172712	1209.089994	2400.146163	1200.576719	2399.162147	1200.084711	T	<b>408.191132</b>	204.599204	391.164583	196.085929	390.180567	195.593921	3
19	2577.203361	1289.105318	2560.176812	1280.592044	2559.192796	1280.100036	C	307.143453	154.075364	290.116904	145.562090			2
20							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VSVLCQENYLIQEGEEITCK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
40.9	2722.301590	-0.001228	<a href="#">VSVLCQENYLIQEGEEITCK</a>
37.9	2722.301590	-0.001228	<a href="#">VSVLCQENYLIQEGEEITCK</a>
10.5	2722.339783	-0.039421	<a href="#">QDREHLWKLIEGGAHIYVCGDAR</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VSVLCQENYLIQEGEEITCK**

Found in **CFAH\_HUMAN**, Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4

Match to Query 50606: 2722.300362 from(908.440730,3+) rtinseconds(2766) index(36384)

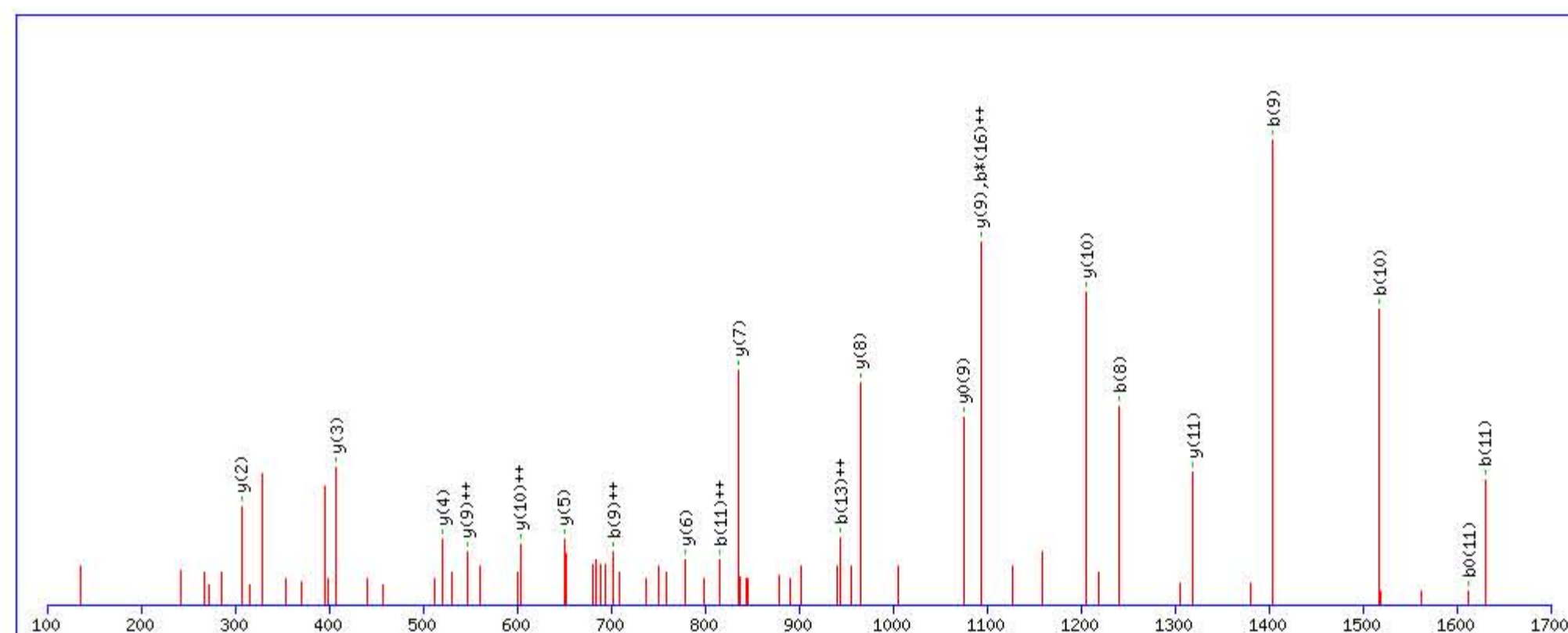
Title: Locus:1.1.1.3625.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2722.301590

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

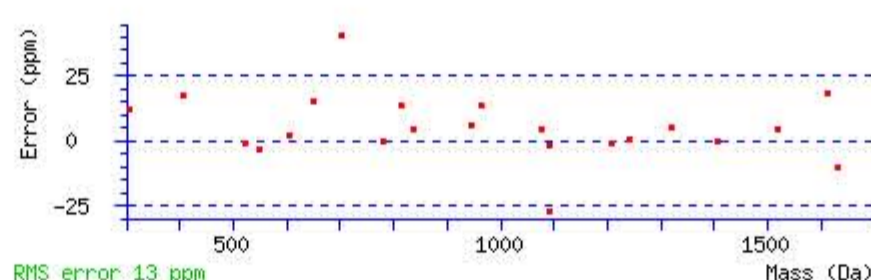
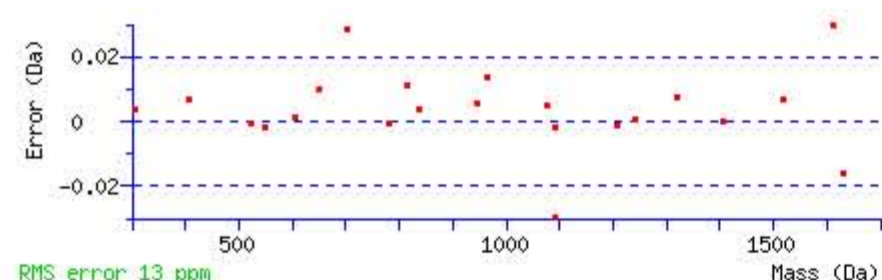
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 69 Expect: 2.8e-006

Matches : 22/212 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							20
2	187.107718	94.057497			169.097153	85.052214	S	2624.240475	1312.623875	2607.213926	1304.110601	2606.229910	1303.618593	19
3	286.176132	143.591704			268.165567	134.586422	V	2537.208447	1269.107861	2520.181898	1260.594587	2519.197882	1260.102579	18
4	399.260196	200.133736			381.249631	191.128454	L	2438.140033	1219.573654	2421.113484	1211.060380	2420.129468	1210.568372	17
5	559.290845	280.149061			541.280280	271.143778	C	2325.055969	1163.031622	2308.029420	1154.518348	2307.045404	1154.026340	16
6	998.516171	499.761724	981.489622	491.248449	980.505606	490.756441	Q	2165.025320	1083.016298	2147.998771	1074.503023	2147.014755	1074.011015	15
7	1127.558764	564.283020	1110.532215	555.769746	1109.548199	555.277738	E	1725.799994	863.403635	1708.773445	854.890361	1707.789429	854.398353	14
8	<b>1241.601691</b>	621.304484	1224.575142	612.791209	1223.591126	612.299201	N	1596.757401	798.882339	1579.730852	790.369064	1578.746836	789.877056	13
9	<b>1404.665020</b>	<b>702.836148</b>	1387.638471	694.322874	1386.654455	693.830866	Y	1482.714474	741.860875	1465.687925	733.347601	1464.703909	732.855593	12
10	<b>1517.749084</b>	759.378180	1500.722535	750.864906	1499.738519	750.372898	L	<b>1319.651145</b>	660.329211	1302.624596	651.815936	1301.640580	651.323928	11
11	<b>1630.833148</b>	<b>815.920212</b>	1613.806599	807.406938	<b>1612.822583</b>	806.914929	I	<b>1206.567081</b>	<b>603.787179</b>	1189.540532	595.273904	1188.556516	594.781896	10
12	1758.891726	879.949501	1741.865177	871.436227	1740.881161	870.944219	Q	<b>1093.483017</b>	<b>547.245147</b>	1076.456468	538.731872	<b>1075.472452</b>	538.239864	9
13	1887.934319	<b>944.470798</b>	1870.907770	935.957523	1869.923754	935.465515	E	<b>965.424439</b>	483.215858	948.397890	474.702583	947.413874	474.210575	8
14	1944.955783	972.981530	1927.929234	964.468255	1926.945218	963.976247	G	<b>836.381846</b>	418.694561	819.355297	410.181287	818.371281	409.689279	7
15	2073.998376	1037.502826	2056.971827	1028.989551	2055.987811	1028.497543	E	<b>779.360382</b>	390.183829	762.333833	381.670555	761.349817	381.178547	6
16	2203.040969	1102.024123	2186.014420	<b>1093.510848</b>	2185.030404	1093.018840	E	<b>650.317789</b>	325.662533	633.291240	317.149258	632.307224	316.657250	5
17	2316.125033	1158.566155	2299.098484	1150.052880	2298.114468	1149.560872	I	<b>521.275196</b>	261.141236	504.248647	252.627961	503.264631	252.135953	4
18	2417.172712	1209.089994	2400.146163	1200.576719	2399.162147	1200.084711	T	<b>408.191132</b>	204.599204	391.164583	196.085929	390.180567	195.593921	3
19	2577.203361	1289.105318	2560.176812	1280.592044	2559.192796	1280.100036	C	<b>307.143453</b>	154.075364	290.116904	145.562090			2
20							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VSVLCQENYLIQEGEEITCK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
68.5	2722.301590	-0.001228	<a href="#">VSVLCQENYLIQEGEEITCK</a>
65.8	2722.301590	-0.001228	<a href="#">VSVLCQENYLIQEGEEITCK</a>
19.1	2722.339783	-0.039421	<a href="#">QDREHLWKLIEGGAHIYVCGDAR</a>

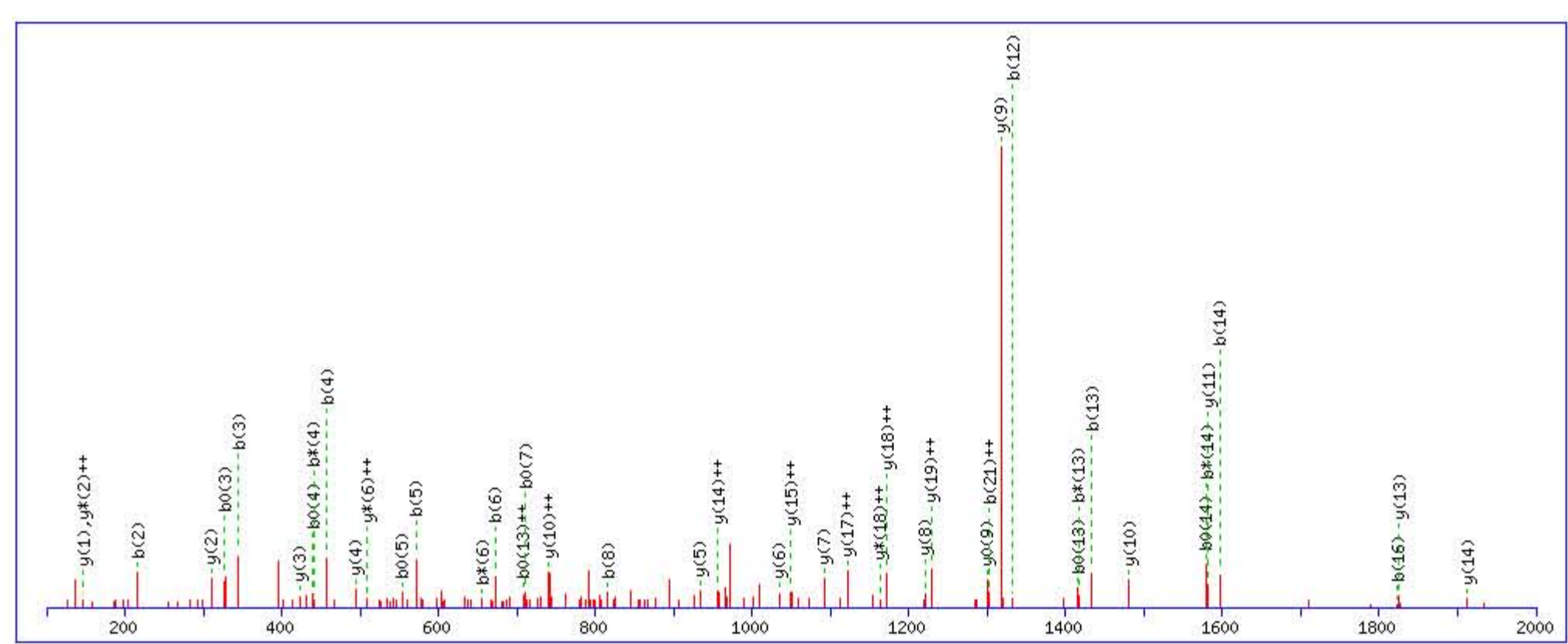
**MASCOT** Mascot Search Results

**Peptide View**

MS/MS Fragmentation of **NTEILTGSWSDQTYPEGTQAIYK**  
 Found in **CFAH\_HUMAN**, Complement factor H OS=Homo sapiens GN=CFH PE=1 SV=4

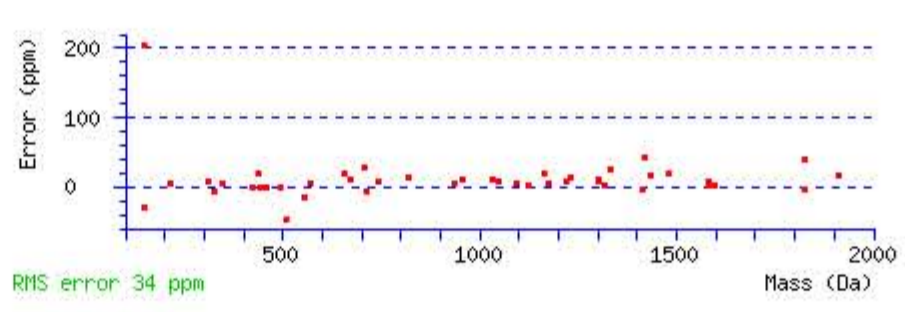
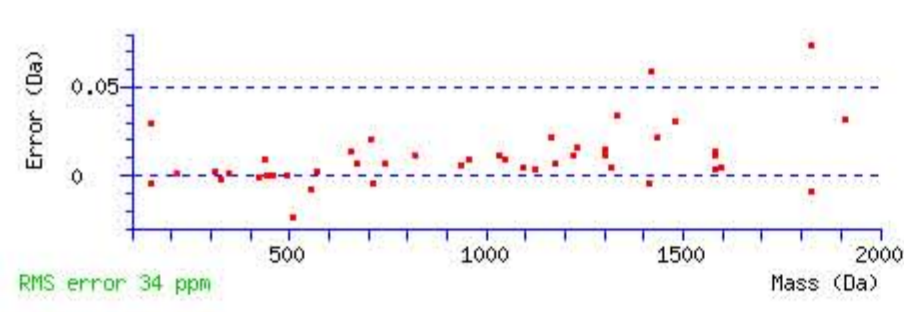
Match to Query 53096: 2912.404242 from(971.808690,3+) rtinseconds(2412) index(21309)  
 Title: Locus:1.1.1.3405.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2912.390213  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications: Q19 : Biotin:Thermo-21345 (Q)  
 Ions Score: 69 Expect: 3e-006  
 Matches : 45/252 fragment ions using 89 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							23
2	<b>216.097882</b>	108.552579	199.071333	100.039305	198.087317	99.547296	T	2799.354578	1400.180927	2782.328029	1391.667652	2781.344013	1391.175644	22
3	<b>345.140475</b>	173.073875	328.113926	164.560601	<b>327.129910</b>	164.068593	E	2698.306899	1349.657087	2681.280350	1341.143813	2680.296334	1340.651805	21
4	<b>458.224539</b>	229.615907	<b>441.197990</b>	221.102633	<b>440.213974</b>	220.610625	I	2569.264306	1285.135791	2552.237757	1276.622516	2551.253741	1276.130508	20
5	<b>571.308603</b>	286.157940	554.282054	277.644665	<b>553.298038</b>	277.152657	L	2456.180242	<b>1228.593759</b>	2439.153693	1220.080484	2438.169677	1219.588476	19
6	<b>672.356282</b>	336.681779	<b>655.329733</b>	328.168505	654.345717	327.676497	T	2343.096178	<b>1172.051727</b>	2326.069629	<b>1163.538452</b>	2325.085613	1163.046444	18
7	729.377746	365.192511	712.351197	356.679237	<b>711.367181</b>	356.187229	G	2242.048499	<b>1121.527887</b>	2225.021950	1113.014613	2224.037934	1112.522605	17
8	<b>816.409774</b>	408.708525	799.383225	400.195251	798.399209	399.703243	S	2185.027035	1093.017155	2168.000486	1084.503881	2167.016470	1084.011873	16
9	1002.489087	501.748182	985.462538	493.234907	984.478522	492.742899	W	2097.995007	<b>1049.501141</b>	2080.968458	1040.987867	2079.984442	1040.495859	15
10	1089.521115	545.264196	1072.494566	536.750921	1071.510550	536.258913	S	<b>1911.915694</b>	<b>956.461485</b>	1894.889145	947.948211	1893.905129	947.456203	14
11	1204.548058	602.777667	1187.521509	594.264393	1186.537493	593.772385	D	<b>1824.883666</b>	912.945471	1807.857117	904.432197	1806.873101	903.940189	13
12	<b>1332.606636</b>	666.806956	1315.580087	658.293682	1314.596071	657.801674	Q	1709.856723	855.432000	1692.830174	846.918725	1691.846158	846.426717	12
13	<b>1433.654315</b>	717.330796	<b>1416.627766</b>	708.817521	<b>1415.643750</b>	<b>708.325513</b>	T	<b>1581.798145</b>	791.402711	1564.771596	782.889436	1563.787580	782.397428	11
14	<b>1596.717644</b>	798.862460	<b>1579.691095</b>	790.349186	<b>1578.707079</b>	789.857178	Y	<b>1480.750466</b>	<b>740.878871</b>	1463.723917	732.365597	1462.739901	731.873589	10
15	1693.770408	847.388842	1676.743859	838.875568	1675.759843	838.383560	P	<b>1317.687137</b>	659.347207	1300.660588	650.833932	<b>1299.676572</b>	650.341924	9
16	<b>1822.813001</b>	911.910139	1805.786452	903.396864	1804.802436	902.904856	E	<b>1220.634373</b>	610.820825	1203.607824	602.307550	1202.623808	601.815542	8
17	1879.834465	940.420871	1862.807916	931.907596	1861.823900	931.415588	G	<b>1091.591780</b>	546.299528	1074.565231	537.786254	1073.581215	537.294246	7
18	1980.882144	990.944710	1963.855595	982.431436	1962.871579	981.939428	T	<b>1034.570316</b>	517.788796	1017.543767	<b>509.275522</b>	1016.559751	508.783514	6
19	2420.107470	1210.557373	2403.080921	1202.044098	2402.096905	1201.552090	Q	<b>933.522637</b>	467.264957	916.496088	458.751682			5
20	2491.144584	1246.075930	2474.118035	1237.562655	2473.134019	1237.070648	A	<b>494.297311</b>	247.652294	477.270762	239.139019			4
21	2604.228648	<b>1302.617962</b>	2587.202099	1294.104688	2586.218083	1293.612680	I	<b>423.260197</b>	212.133737	406.233648	203.620462			3
22	2767.291977	1384.149627	2750.265428	1375.636352	2749.281412	1375.144344	Y	<b>310.176133</b>	155.591705	293.149584	<b>147.078430</b>			2
23							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [NTEILTGSWSDQTYPEGTQAIYK](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	$M_r(\text{calc})$ :	Delta	Sequence
69.2	2912.390213	0.014029	<a href="#">NTEILTGSWSDQTYPEGTQAIYK</a>
17.3	2912.390213	0.014029	<a href="#">NTEILTGSWSDQTYPEGTQAIYK</a>

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VFCQPWQR**

Found in **CFAI\_HUMAN**, Complement factor I OS=Homo sapiens GN=CFI PE=1 SV=2

Match to Query 25327: 1430.700788 from(716.357670,2+) rtinseconds(2043) index(60838)

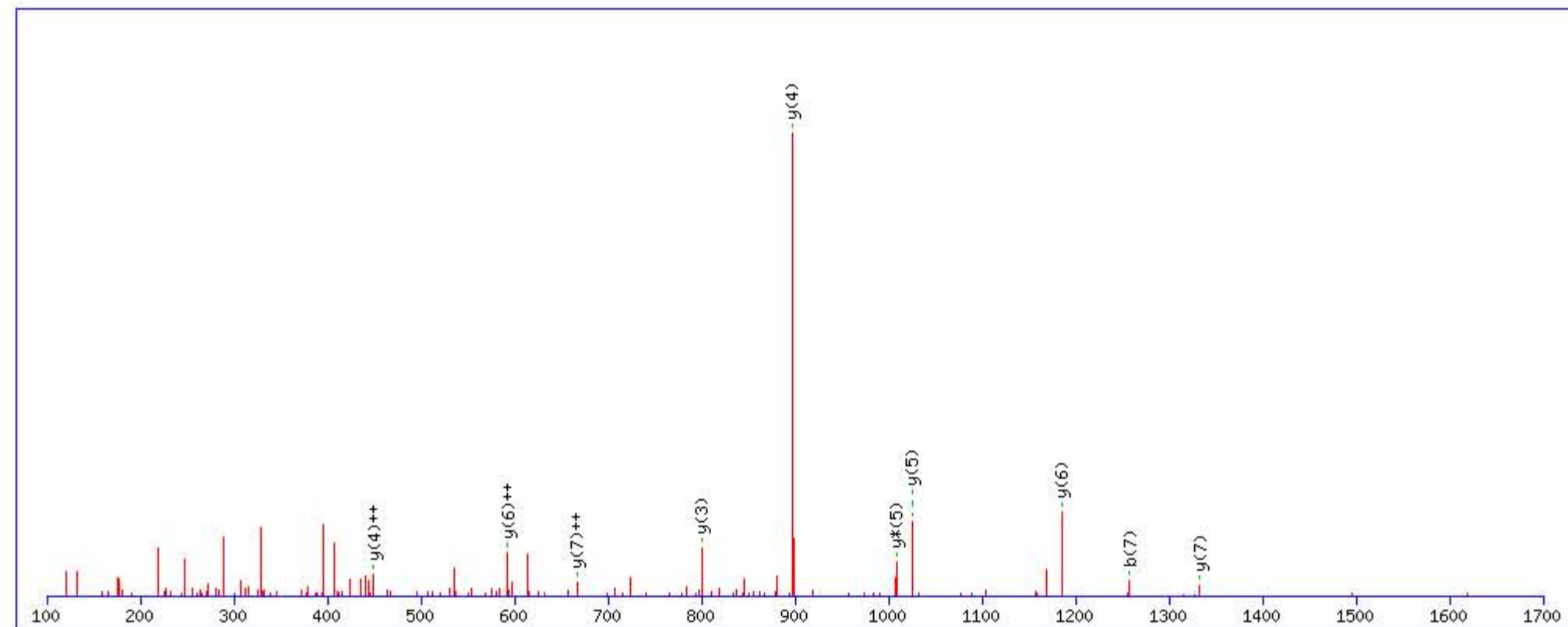
Title: Locus:1.1.1.1623.5 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1430.695145

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

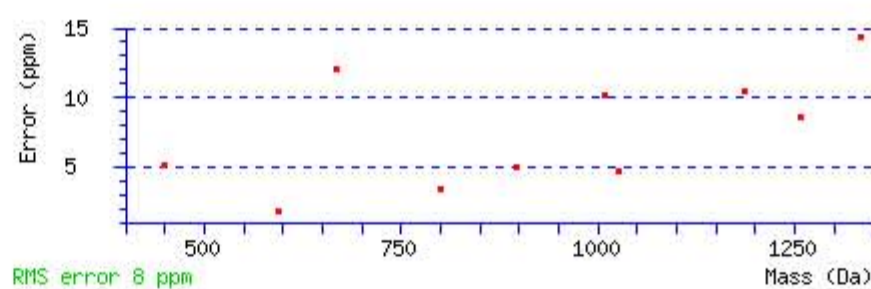
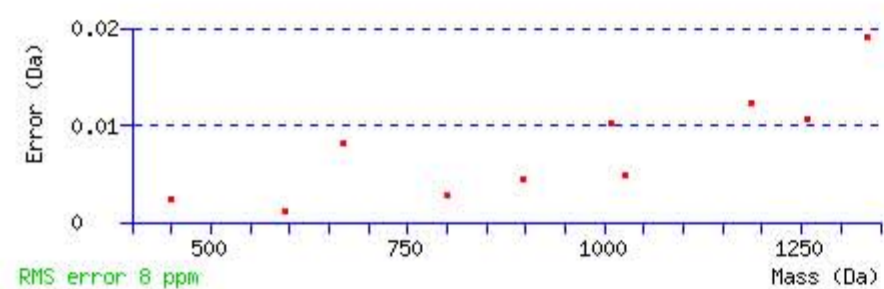
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 36 Expect: 0.00057

Matches : 10/50 fragment ions using 13 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	100.075690	50.541483			V					8
2	247.144104	124.075690			F	1332.633996	666.820636	1315.607447	658.307362	7
3	407.174753	204.091014			C	1185.565582	593.286429	1168.539033	584.773155	6
4	535.233331	268.120304	518.206782	259.607029	Q	1025.534933	513.271105	1008.508384	504.757830	5
5	632.286095	316.646686	615.259546	308.133411	P	897.476355	449.241816	880.449806	440.728541	4
6	818.365408	409.686342	801.338859	401.173068	W	800.423591	400.715434	783.397042	392.202159	3
7	1257.590734	629.299005	1240.564185	620.785731	Q	614.344278	307.675777	597.317729	299.162503	2
8					R	175.118952	88.063114	158.092403	79.549839	1



NCBI BLAST search of [VFCQPWQR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
35.8	1430.695145	0.005643	<a href="#">VFCQPWQR</a>
7.5	1430.695145	0.005643	<a href="#">VFCQPWQR</a>
1.1	1430.693619	0.007169	<a href="#">QLQTLSPGGGGNR</a>
1.1	1430.697144	0.003644	<a href="#">EATMKMAVMIFK</a>
1.1	1430.697144	0.003644	<a href="#">EATMKMAVMIFK</a>
0.9	1430.711319	-0.010531	<a href="#">RAKAEDENETLR</a>
0.8	1430.700989	-0.000201	<a href="#">DMGLMNAIGLQPR</a>
0.3	1430.700989	-0.000201	<a href="#">NMPQADAMVLVAR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **TMGYQDFADVVCYTQK**

Found in **CFAI\_HUMAN**, Complement factor I OS=Homo sapiens GN=CFI PE=1 SV=2

Match to Query 26881: 2236.026252 from(746.349360,3+) rtinseconds(2518) index(63365)

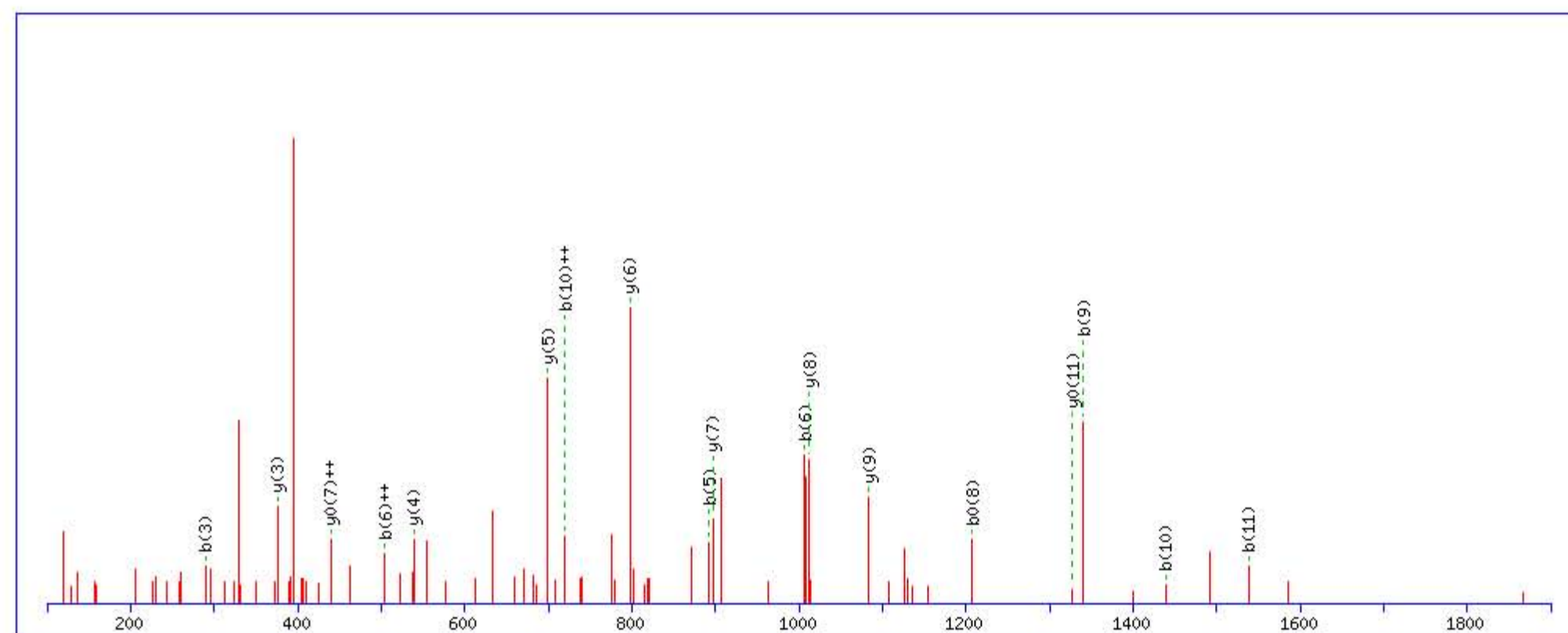
Title: Locus:1.1.1.1788.19 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2236.000305

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

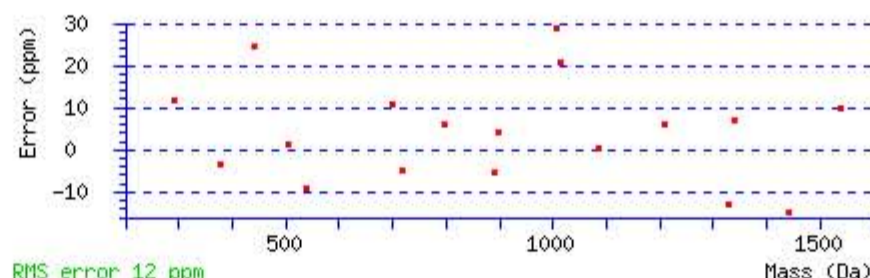
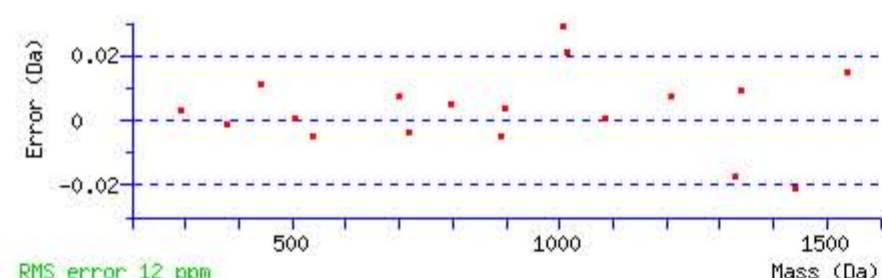
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.0031

Matches : 18/168 fragment ions using 40 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							16
2	233.095440	117.051358			215.084875	108.046076	M	2135.959885	1068.483580	2118.933336	1059.970306	2117.949320	1059.478298	15
3	<b>290.116904</b>	145.562090			272.106339	136.556807	G	2004.919400	1002.963338	1987.892851	994.450064	1986.908835	993.958056	14
4	453.180233	227.093754			435.169668	218.088472	Y	1947.897936	974.452606	1930.871387	965.939332	1929.887371	965.447324	13
5	<b>892.405559</b>	446.706418	875.379010	438.193143	874.394994	437.701135	Q	1784.834607	892.920942	1767.808058	884.407667	1766.824042	883.915659	12
6	<b>1007.432502</b>	<b>504.219889</b>	990.405953	495.706615	989.421937	495.214607	D	1345.609281	673.308279	1328.582732	664.795004	<b>1327.598716</b>	664.302996	11
7	1154.500916	577.754096	1137.474367	569.240822	1136.490351	568.748813	F	1230.582338	615.794807	1213.555789	607.281533	1212.571773	606.789525	10
8	1225.538030	613.272653	1208.511481	604.759379	<b>1207.527465</b>	604.267370	A	<b>1083.513924</b>	542.260600	1066.487375	533.747326	1065.503359	533.255318	9
9	<b>1340.564973</b>	670.786125	1323.538424	662.272850	1322.554408	661.780842	D	<b>1012.476810</b>	506.742043	995.450261	498.228769	994.466245	497.736761	8
10	<b>1439.633387</b>	<b>720.320332</b>	1422.606838	711.807057	1421.622822	711.315049	V	<b>897.449867</b>	449.228572	880.423318	440.715297	879.439302	<b>440.223289</b>	7
11	<b>1538.701801</b>	769.854539	1521.675252	761.341264	1520.691236	760.849256	V	<b>798.381453</b>	399.694365	781.354904	391.181090	780.370888	390.689082	6
12	1698.732450	849.869863	1681.705901	841.356589	1680.721885	840.864581	C	<b>699.313039</b>	350.160158	682.286490	341.646883	681.302474	341.154875	5
13	1861.795779	931.401528	1844.769230	922.888253	1843.785214	922.396245	Y	<b>539.282390</b>	270.144833	522.255841	261.631559	521.271825	261.139551	4
14	1962.843458	981.925367	1945.816909	973.412093	1944.832893	972.920085	T	<b>376.219061</b>	188.613168	359.192512	180.099894	358.208496	179.607886	3
15	2090.902036	1045.954656	2073.875487	1037.441381	2072.891471	1036.949373	Q	275.171382	138.089329	258.144833	129.576054			2
16							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **TMGYQDFADVVCYTQK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
31.7	2236.000305	0.025947	<a href="#">TMGYQDFADVVCYTQK</a>
4.8	2236.057587	-0.031335	<a href="#">RVLGESGEMDALRIQMEDR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VTYTSQEDLVEK**

Found in **CFAI\_HUMAN**, Complement factor I OS=Homo sapiens GN=CFI PE=1 SV=2

Match to Query 34094: 1721.855622 from(574.959150,3+) rtinseconds(1897) index(59866)

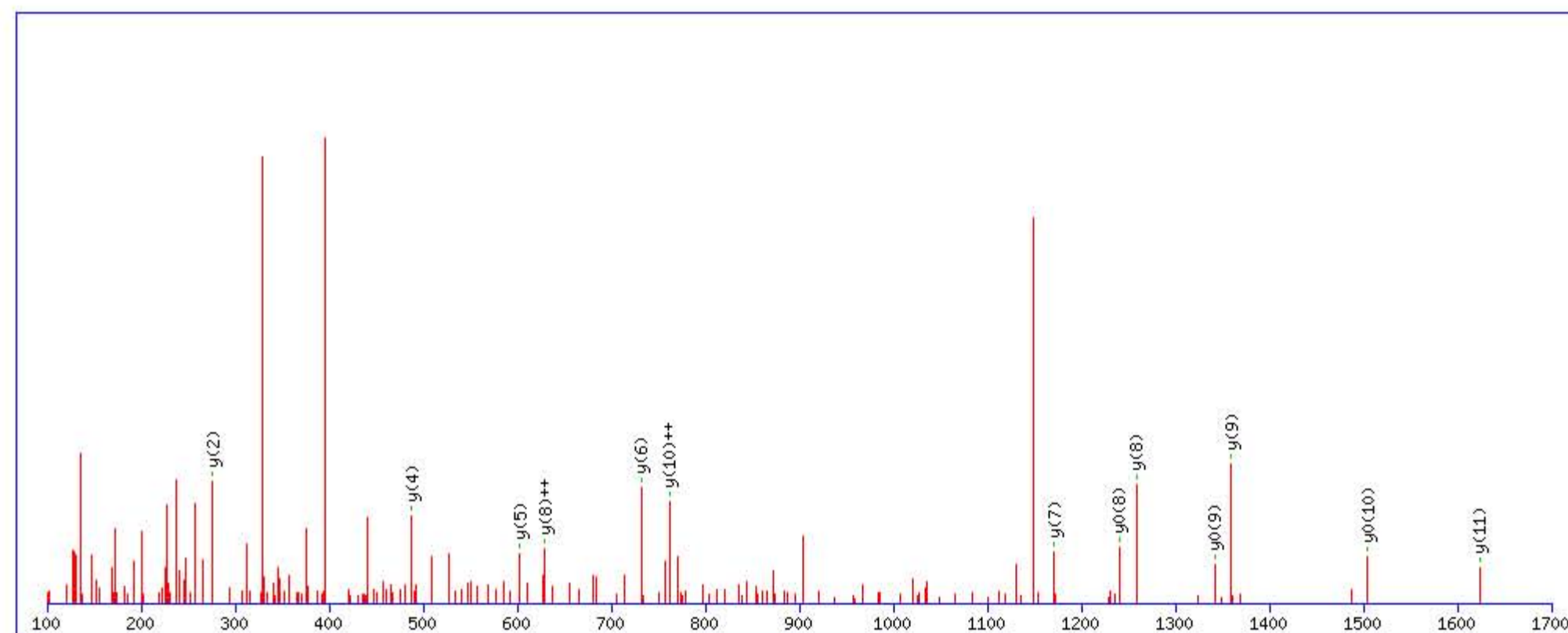
Title: Locus:1.1.1.1572.9 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1721.854584

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

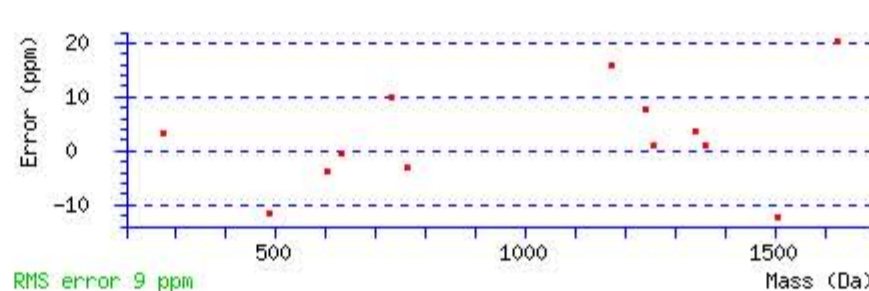
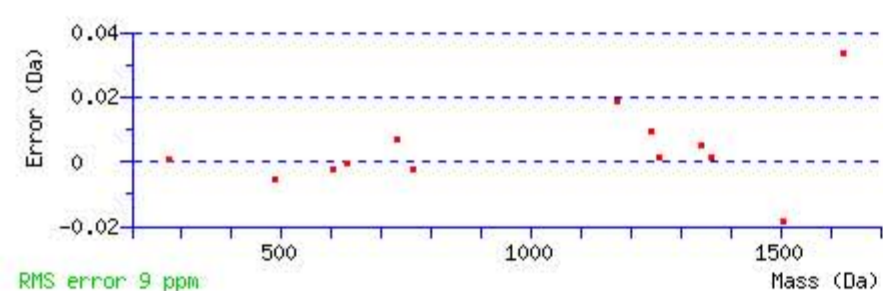
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 37 Expect: 0.0047

Matches : 13/118 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							12
2	201.123369	101.065322			183.112804	92.060040	T	<b>1623.793452</b>	812.400364	1606.766903	803.887090	1605.782887	803.395081	11
3	364.186698	182.596987			346.176133	173.591705	Y	1522.745773	<b>761.876524</b>	1505.719224	753.363250	<b>1504.735208</b>	752.871242	10
4	465.234377	233.120827			447.223812	224.115544	T	<b>1359.682444</b>	680.344860	1342.655895	671.831585	<b>1341.671879</b>	671.339577	9
5	552.266405	276.636841			534.255840	267.631558	S	<b>1258.634765</b>	<b>629.821021</b>	1241.608216	621.307746	<b>1240.624200</b>	620.815738	8
6	991.491731	496.249504	974.465182	487.736229	973.481166	487.244221	Q	<b>1171.602737</b>	586.305006	1154.576188	577.791732	1153.592172	577.299724	7
7	1120.534324	560.770800	1103.507775	552.257526	1102.523759	551.765517	E	<b>732.377411</b>	366.692343	715.350862	358.179069	714.366846	357.687061	6
8	1235.561267	618.284272	1218.534718	609.770997	1217.550702	609.278989	D	<b>603.334818</b>	302.171047	586.308269	293.657773	585.324253	293.165765	5
9	1348.645331	674.826303	1331.618782	666.313029	1330.634766	665.821021	L	<b>488.307875</b>	244.657575	471.281326	236.144301	470.297310	235.652293	4
10	1447.713745	724.360511	1430.687196	715.847236	1429.703180	715.355228	V	375.223811	188.115543	358.197262	179.602269	357.213246	179.110261	3
11	1576.756338	788.881807	1559.729789	780.368533	1558.745773	779.876524	E	<b>276.155397</b>	138.581336	259.128848	130.068062	258.144832	129.576054	2
12							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VTYTSQEDLVEK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
37.0	1721.854584	0.001038	<a href="#">VTYTSQEDLVEK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AQLGDLPWQVAIK**

Found in **CFAI\_HUMAN**, Complement factor I OS=Homo sapiens GN=CFI PE=1 SV=2

Match to Query 34653: 1748.979588 from(875.497070,2+) rtinseconds(2664) index(64236)

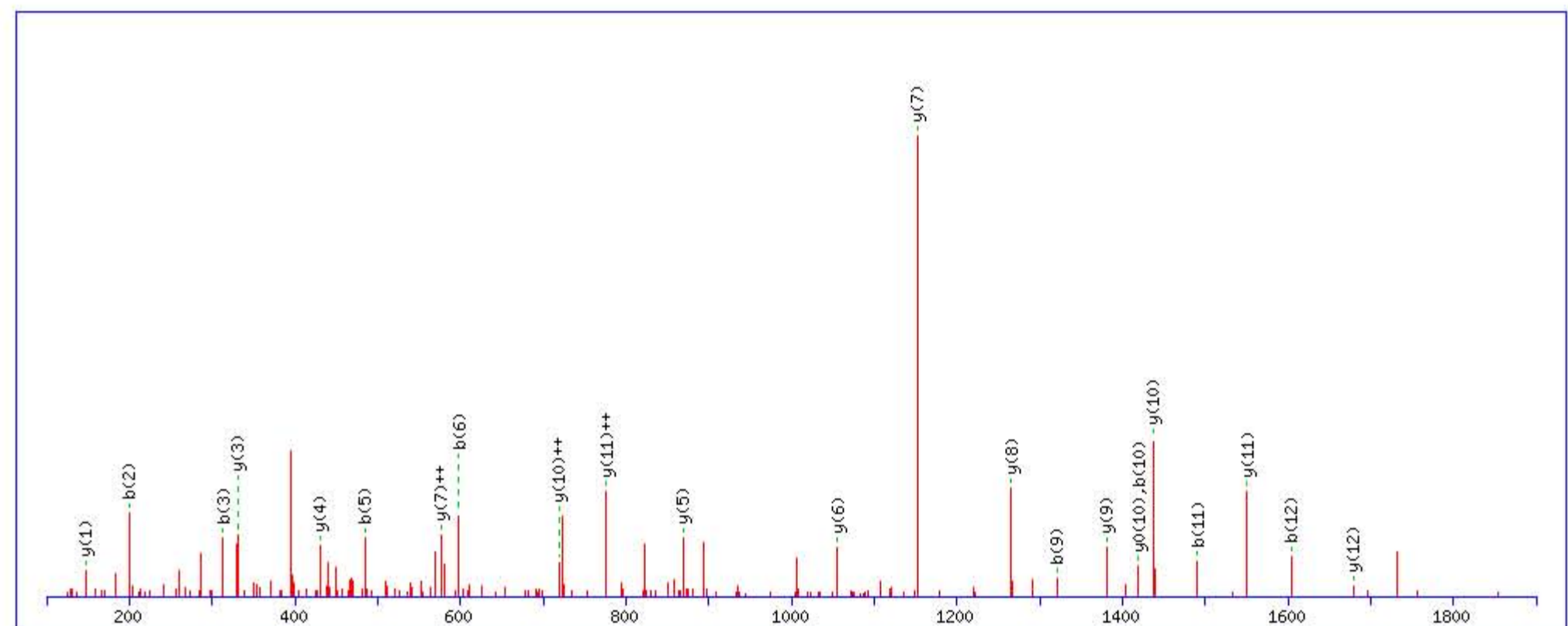
Title: Locus:1.1.1.1838.10 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 100 to 1900 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1748.964737

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

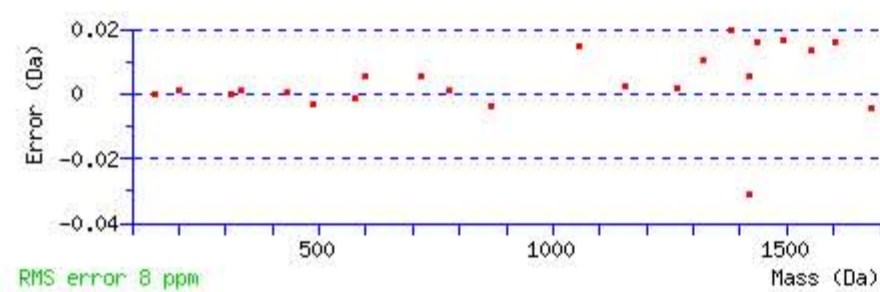
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

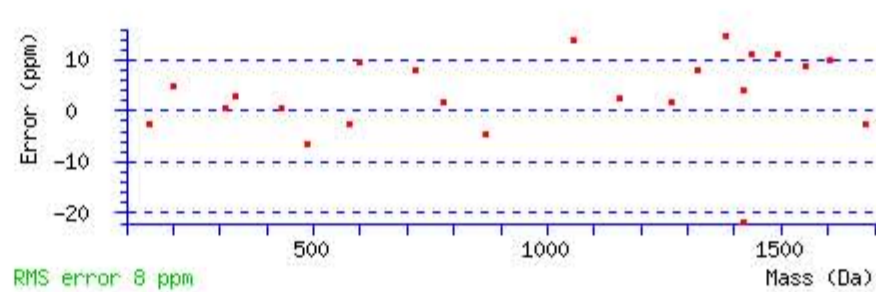
Ions Score: 88 Expect: 1.5e-008

Matches : 23/118 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							13
2	<b>200.102968</b>	100.555122	183.076419	92.041848			Q	<b>1678.934912</b>	839.971094	1661.908363	831.457820	1660.924347	830.965812	12
3	<b>313.187032</b>	157.097154	296.160483	148.583879			L	<b>1550.876334</b>	<b>775.941805</b>	1533.849785	767.428531	1532.865769	766.936523	11
4	370.208496	185.607886	353.181947	177.094611			G	<b>1437.792270</b>	<b>719.399773</b>	1420.765721	710.886499	<b>1419.781705</b>	710.394491	10
5	<b>485.235439</b>	243.121357	468.208890	234.608083	467.224874	234.116075	D	<b>1380.770806</b>	690.889041	1363.744257	682.375767	1362.760241	681.883759	9
6	<b>598.319503</b>	299.663390	581.292954	291.150115	580.308938	290.658107	L	<b>1265.743863</b>	633.375570	1248.717314	624.862295			8
7	695.372267	348.189772	678.345718	339.676497	677.361702	339.184489	P	<b>1152.659799</b>	<b>576.833538</b>	1135.633250	568.320263			7
8	881.451580	441.229428	864.425031	432.716154	863.441015	432.224146	W	<b>1055.607035</b>	528.307156	1038.580486	519.793881			6
9	<b>1320.676906</b>	660.842091	1303.650357	652.328817	1302.666341	651.836809	Q	<b>869.527722</b>	435.267499	852.501173	426.754225			5
10	<b>1419.745320</b>	710.376298	1402.718771	701.863024	1401.734755	701.371016	V	<b>430.302396</b>	215.654836	413.275847	207.141561			4
11	<b>1490.782434</b>	745.894855	1473.755885	737.381581	1472.771869	736.889573	A	<b>331.233982</b>	166.120629	314.207433	157.607354			3
12	<b>1603.866498</b>	802.436887	1586.839949	793.923613	1585.855933	793.431605	I	260.196868	130.602072	243.170319	122.088797			2
13							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



RMS error 8 ppm



RMS error 8 ppm

NCBI BLAST search of **AQLGDLPWQVAIK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
88.0	1748.964737	0.014851	<a href="#">AQLGDLPWQVAIK</a>
7.7	1748.964737	0.014851	<a href="#">AQLGDLPWQVAIK</a>
4.3	1748.978439	0.001149	<a href="#">YARKISGTTALQEALK</a>
3.2	1748.985840	-0.006252	<a href="#">LPLGSLMKSPHLES LK</a>
2.1	1748.964523	0.015065	<a href="#">AAAALSLAHRLLDGAGSR</a>
2.1	1748.958649	0.020939	<a href="#">AYIRRQINHIFYR</a>
1.8	1748.987183	-0.007595	<a href="#">QPARSRLWLPSK</a>
0.3	1748.989685	-0.010097	<a href="#">KALSEHNVLVVEGARK</a>
0.1	1748.957336	0.022252	<a href="#">LTYQFDSALLPAVRR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **TMGYQDFADVVCYTQK**

Found in **CFAI\_HUMAN**, Complement factor I OS=Homo sapiens GN=CFI PE=1 SV=2

Match to Query 43883: 2236.018692 from(746.346840,3+) rtinseconds(2590) index(63761)

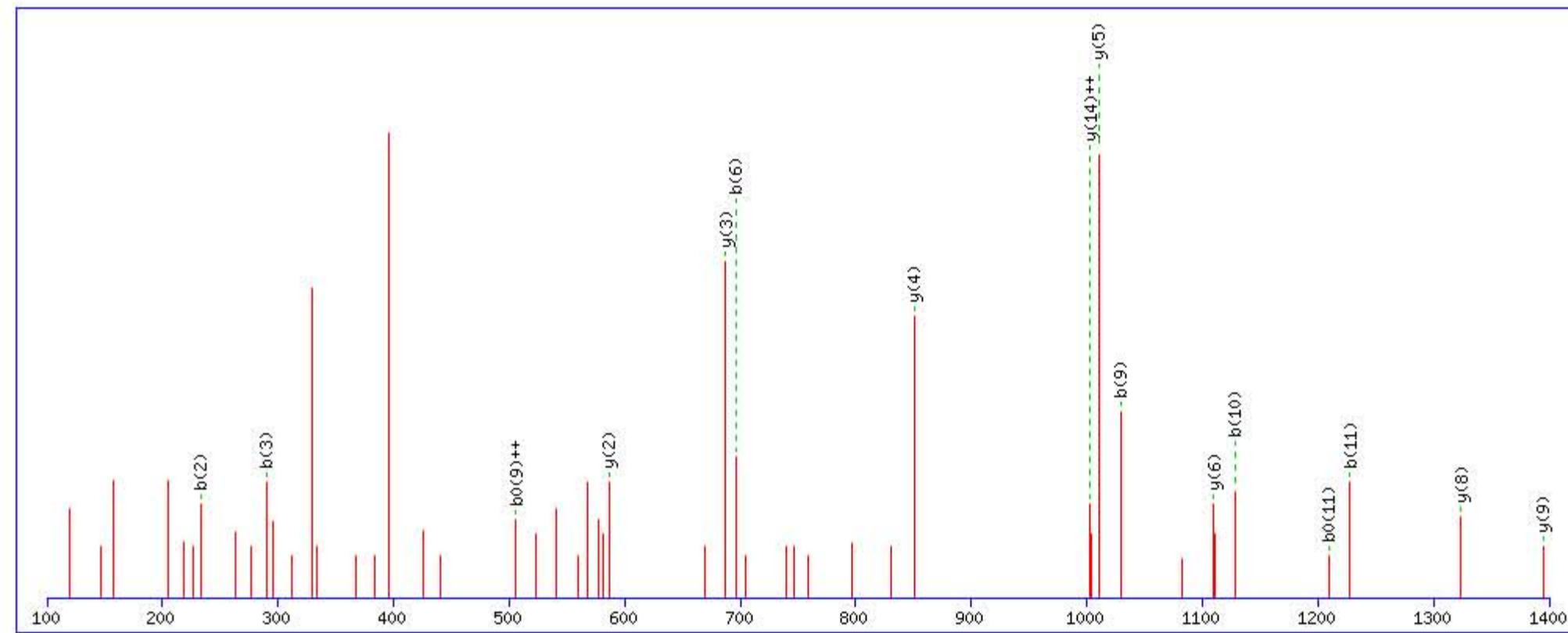
Title: Locus:1.1.1.1813.12 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2236.000305

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

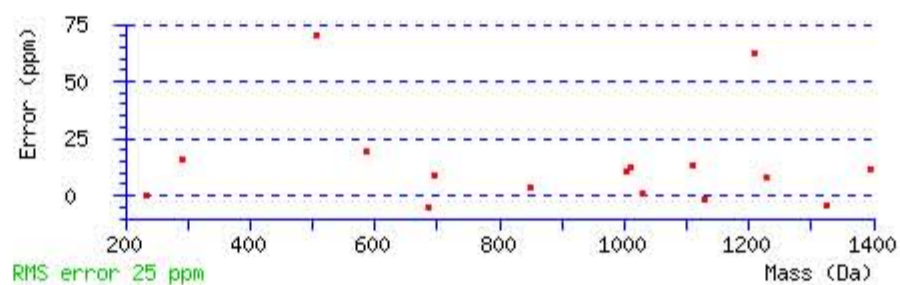
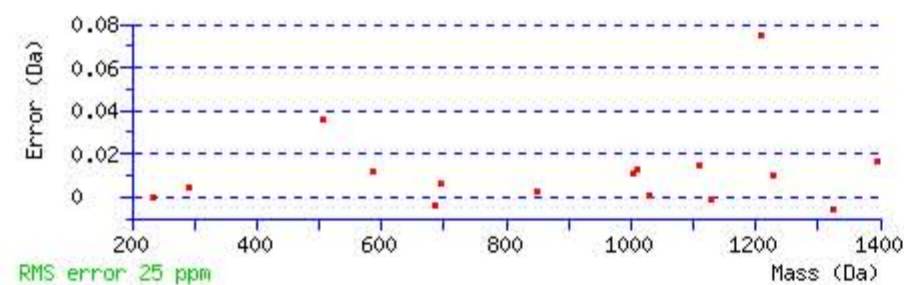
Variable modifications:

Q15 : Biotin:Thermo-21345 (Q)

Ions Score: 49 Expect: 0.00013

Matches : 16/168 fragment ions using 25 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							16
2	<b>233.095440</b>	117.051358			215.084875	108.046076	M	2135.959885	1068.483580	2118.933336	1059.970306	2117.949320	1059.478298	15
3	<b>290.116904</b>	145.562090			272.106339	136.556807	G	2004.919400	<b>1002.963338</b>	1987.892851	994.450064	1986.908835	993.958056	14
4	453.180233	227.093754			435.169668	218.088472	Y	1947.897936	974.452606	1930.871387	965.939332	1929.887371	965.447324	13
5	581.238811	291.123044	564.212262	282.609769	563.228246	282.117761	Q	1784.834607	892.920942	1767.808058	884.407667	1766.824042	883.915659	12
6	<b>696.265754</b>	348.636515	679.239205	340.123241	678.255189	339.631233	D	1656.776029	828.891653	1639.749480	820.378378	1638.765464	819.886370	11
7	843.334168	422.170722	826.307619	413.657447	825.323603	413.165439	F	1541.749086	771.378181	1524.722537	762.864907	1523.738521	762.372899	10
8	914.371282	457.689279	897.344733	449.176004	896.360717	448.683996	A	<b>1394.680672</b>	697.843974	1377.654123	689.330700	1376.670107	688.838692	9
9	<b>1029.398225</b>	515.202750	1012.371676	506.689476	1011.387660	<b>506.197468</b>	D	<b>1323.643558</b>	662.325417	1306.617009	653.812143	1305.632993	653.320135	8
10	<b>1128.466639</b>	564.736958	1111.440090	556.223683	1110.456074	555.731675	V	1208.616615	604.811946	1191.590066	596.298671	1190.606050	595.806663	7
11	<b>1227.535053</b>	614.271165	1210.508504	605.757890	<b>1209.524488</b>	605.265882	V	<b>1109.548201</b>	555.277739	1092.521652	546.764464	1091.537636	546.272456	6
12	1387.565702	694.286489	1370.539153	685.773215	1369.555137	685.281207	C	<b>1010.479787</b>	505.743532	993.453238	497.230257	992.469222	496.738249	5
13	1550.629031	775.818154	1533.602482	767.304879	1532.618466	766.812871	Y	<b>850.449138</b>	425.728207	833.422589	417.214933	832.438573	416.722925	4
14	1651.676710	826.341993	1634.650161	817.828719	1633.666145	817.336711	T	<b>687.385809</b>	344.196543	670.359260	335.683268	669.375244	335.191260	3
15	2090.902036	1045.954656	2073.875487	1037.441381	2072.891471	1036.949373	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
16							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **TMGYQDFADVVCYTQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
49.5	2236.000305	0.018387	<a href="#">TMGYQDFADVVCYTQK</a>

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

# MASCOT SEARCH RESULTS

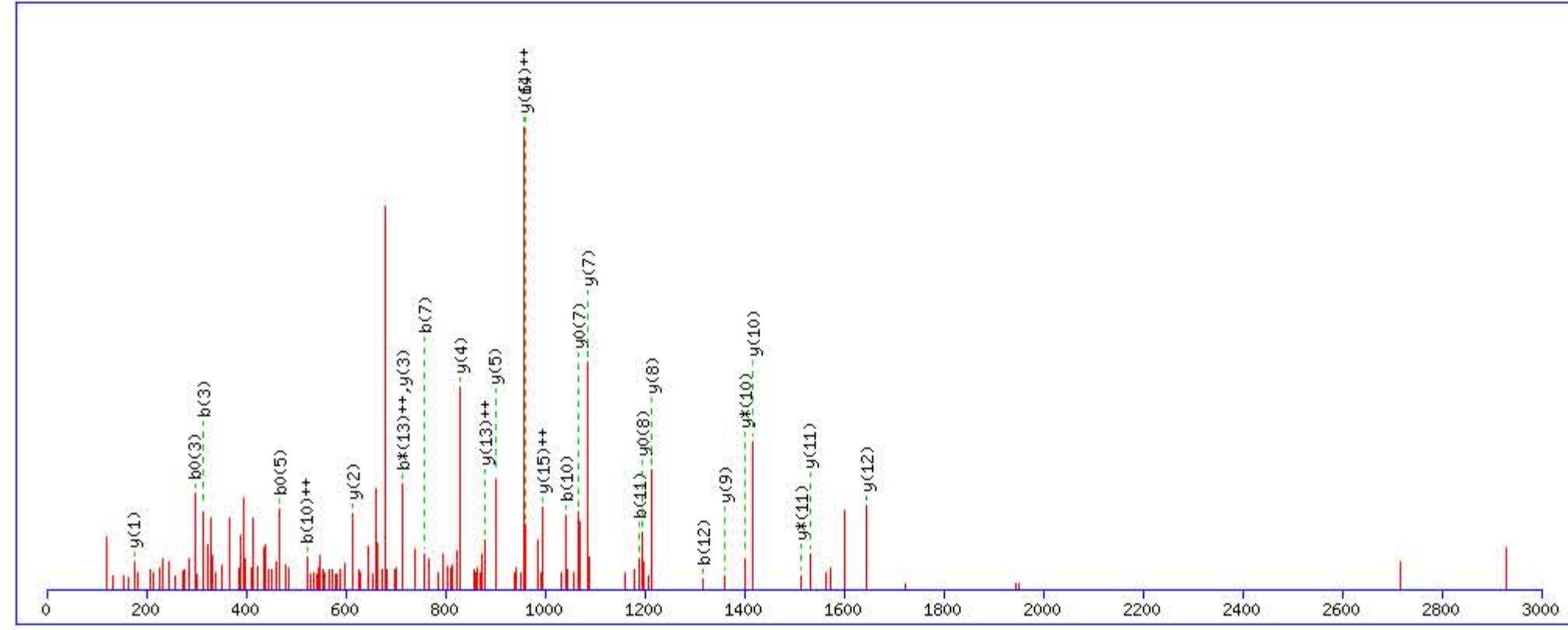
## Peptide View

MS/MS Fragmentation of **EANVACLDLGFQQGADTQR**

Found in **CFAI\_HUMAN**, Complement factor I OS=Homo sapiens GN=CFI PE=1 SV=2

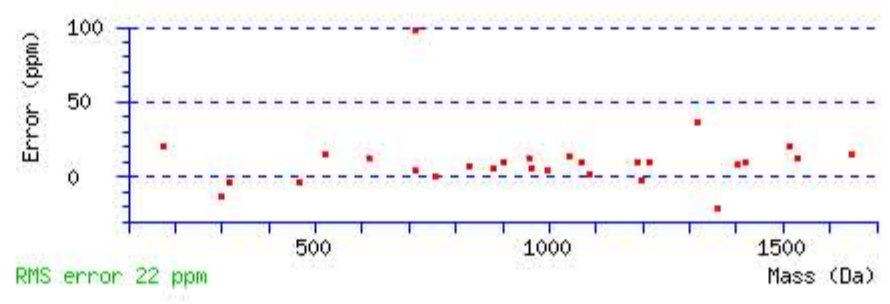
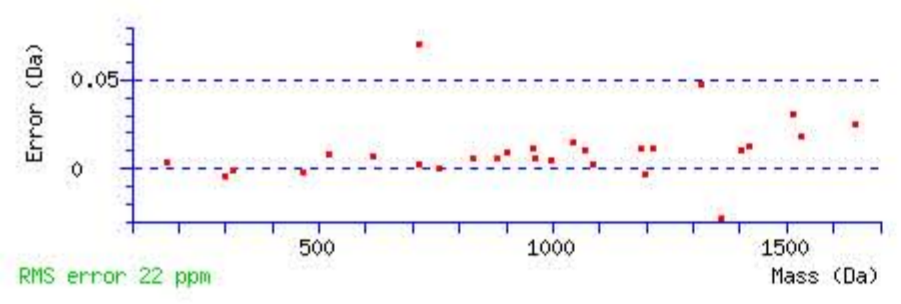
Match to Query 46509: 2403.142032 from(802.054620,3+) rtinseconds(2285) index(62174)  
Title: Locus:1.1.1.1707.10 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
Or, Plot from 0 to 3000 Da Full range  
Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2403.131119  
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
Variable modifications:  
Q18 : Biotin:Thermo-21345 (Q)  
Ions Score: 72 Expect: 2.8e-007  
Matches : 28/208 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							19
2	201.086983	101.047130			183.076418	92.041847	A	2275.095801	1138.051538	2258.069252	1129.538264	2257.085236	1129.046256	18
3	<b>315.129910</b>	158.068593	298.103361	149.555319	<b>297.119345</b>	149.063311	N	2204.058687	1102.532981	2187.032138	1094.019707	2186.048122	1093.527699	17
4	414.198324	207.602800	397.171775	199.089526	396.187759	198.597518	V	2090.015760	1045.511518	2072.989211	1036.998243	2072.005195	1036.506235	16
5	485.235438	243.121357	468.208889	234.608082	<b>467.224873</b>	234.116075	A	1990.947346	<b>995.977311</b>	1973.920797	987.464037	1972.936781	986.972029	15
6	645.266087	323.136682	628.239538	314.623407	627.255522	314.131399	C	1919.910232	<b>960.458754</b>	1902.883683	951.945480	1901.899667	951.453472	14
7	<b>758.350151</b>	379.678714	741.323602	371.165439	740.339586	370.673431	L	1759.879583	<b>880.443430</b>	1742.853034	871.930155	1741.869018	871.438147	13
8	873.377094	437.192185	856.350545	428.678911	855.366529	428.186903	D	<b>1646.795519</b>	823.901398	1629.768970	815.388123	1628.784954	814.896115	12
9	986.461158	493.734217	969.434609	485.220943	968.450593	484.728935	L	<b>1531.768576</b>	766.387926	<b>1514.742027</b>	757.874652	1513.758011	757.382644	11
10	<b>1043.482622</b>	<b>522.244949</b>	1026.456073	513.731675	1025.472057	513.239667	G	<b>1418.684512</b>	709.845894	<b>1401.657963</b>	701.332620	1400.673947	700.840612	10
11	<b>1190.551036</b>	595.779156	1173.524487	587.265882	1172.540471	586.773874	F	<b>1361.663048</b>	681.335162	1344.636499	672.821888	1343.652483	672.329880	9
12	<b>1318.609614</b>	659.808445	1301.583065	651.295171	1300.599049	650.803163	Q	<b>1214.594634</b>	607.800955	1197.568085	599.287681	<b>1196.584069</b>	598.795673	8
13	1446.668192	723.837734	1429.641643	<b>715.324460</b>	1428.657627	714.832452	Q	<b>1086.536056</b>	543.771666	1069.509507	535.258392	<b>1068.525491</b>	534.766384	7
14	1503.689656	752.348466	1486.663107	743.835192	1485.679091	743.343184	G	<b>958.477478</b>	479.742377	941.450929	471.229103	940.466913	470.737095	6
15	1574.726770	787.867023	1557.700221	779.353749	1556.716205	778.861741	A	<b>901.456014</b>	451.231645	884.429465	442.718371	883.445449	442.226363	5
16	1689.753713	845.380495	1672.727164	836.867220	1671.743148	836.375212	D	<b>830.418900</b>	415.713088	813.392351	407.199814	812.408335	406.707806	4
17	1790.801392	895.904334	1773.774843	887.391060	1772.790827	886.899052	T	<b>715.391957</b>	358.199617	698.365408	349.686342	697.381392	349.194334	3
18	2230.026718	1115.516997	2213.000169	1107.003722	2212.016153	1106.511714	Q	<b>614.344278</b>	307.675777	597.317729	299.162503			2
19							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **EANVACLDLGFQQGADTQR**  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
72.4	2403.131119	0.010913	<a href="#">EANVACLDLGFQQGADTQR</a>
26.8	2403.131119	0.010913	<a href="#">EANVACLDLGFQQGADTQR</a>
17.6	2403.131119	0.010913	<a href="#">EANVACLDLGFQQGADTQR</a>
2.5	2403.157135	-0.015103	<a href="#">QAMMKIDFPGDLGSQR</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **TLGDQLSLLGAR**

Found in **MRC2\_HUMAN**, C-type mannose receptor 2 OS=Homo sapiens GN=MRC2 PE=1 SV=2

Match to Query 33008: 1666.944188 from(834.479370,2+) rtinseconds(3000) index(38081)

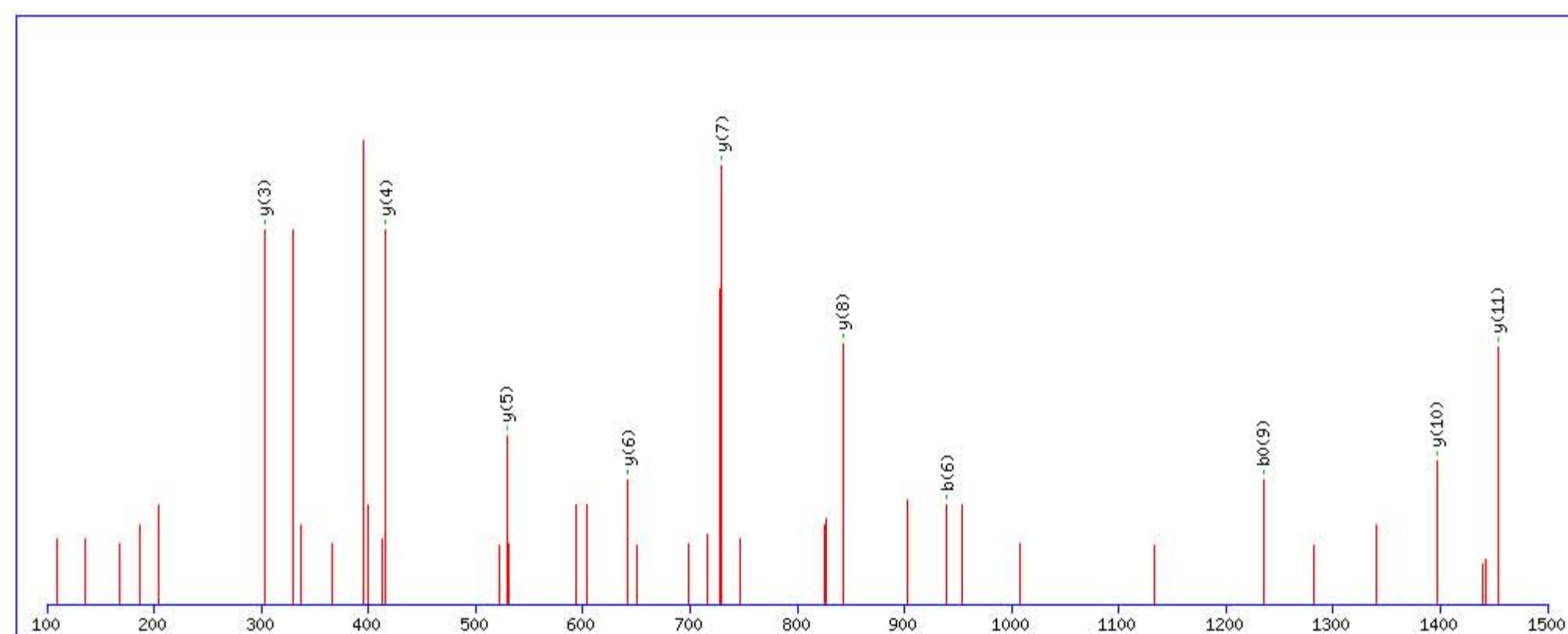
Title: Locus:1.1.1.3705.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1666.944000

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

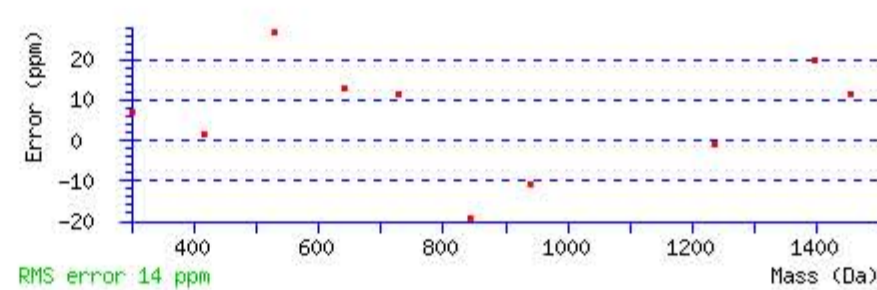
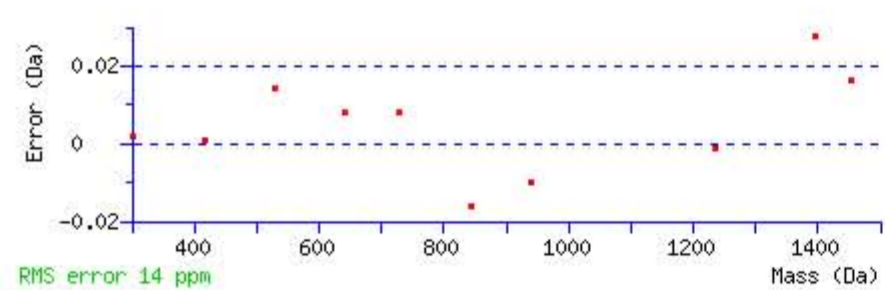
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 66 Expect: 3.6e-006

Matches : 10/124 fragment ions using 13 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							13
2	215.139019	108.073147			197.128454	99.067865	L	1566.903611	783.955443	1549.877062	775.442169	1548.893046	774.950161	12
3	272.160483	136.583879			254.149918	127.578597	G	<b>1453.819547</b>	727.413411	1436.792998	718.900137	1435.808982	718.408129	11
4	387.187426	194.097351			369.176861	185.092069	D	<b>1396.798083</b>	698.902679	1379.771534	690.389405	1378.787518	689.897397	10
5	826.412752	413.710014	809.386203	405.196740	808.402187	404.704732	Q	1281.771140	641.389208	1264.744591	632.875933	1263.760575	632.383925	9
6	<b>939.496816</b>	470.252046	922.470267	461.738772	921.486251	461.246764	L	<b>842.545814</b>	421.776545	825.519265	413.263270	824.535249	412.771262	8
7	1026.528844	513.768060	1009.502295	505.254786	1008.518279	504.762778	S	<b>729.461750</b>	365.234513	712.435201	356.721238	711.451185	356.229230	7
8	1139.612908	570.310092	1122.586359	561.796818	1121.602343	561.304810	L	<b>642.429722</b>	321.718499	625.403173	313.205224			6
9	1252.696972	626.852124	1235.670423	618.338850	<b>1234.686407</b>	617.846841	L	<b>529.345658</b>	265.176467	512.319109	256.663192			5
10	1365.781036	683.394156	1348.754487	674.880881	1347.770471	674.388873	L	<b>416.261594</b>	208.634435	399.235045	200.121160			4
11	1422.802500	711.904888	1405.775951	703.391613	1404.791935	702.899605	G	<b>303.177530</b>	152.092403	286.150981	143.579128			3
12	1493.839614	747.423445	1476.813065	738.910170	1475.829049	738.418162	A	246.156066	123.581671	229.129517	115.068396			2
13							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **TLGDQLSLLGAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
65.6	1666.944000	0.000188	<a href="#">TLGDQLSLLGAR</a>
14.7	1666.926697	0.017491	<a href="#">HSELVHVHAE LLRK</a>
2.1	1666.955231	-0.011043	<a href="#">RLGIPECILLVTQR</a>
1.6	1666.944016	0.000172	<a href="#">LTNSPTVIVMVGLPAR</a>
0.5	1666.955215	-0.011027	<a href="#">DLESVQRLLRK</a>
0.2	1666.925354	0.018834	<a href="#">KAEPLASGKGEPVSLGK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LTLEQIDLIR**

Found in **DPEP2\_HUMAN**, Dipeptidase 2 OS=Homo sapiens GN=DPEP2 PE=1 SV=2

Match to Query 27987: 1523.871668 from(762.943110,2+) rtinseconds(2601) index(35204)

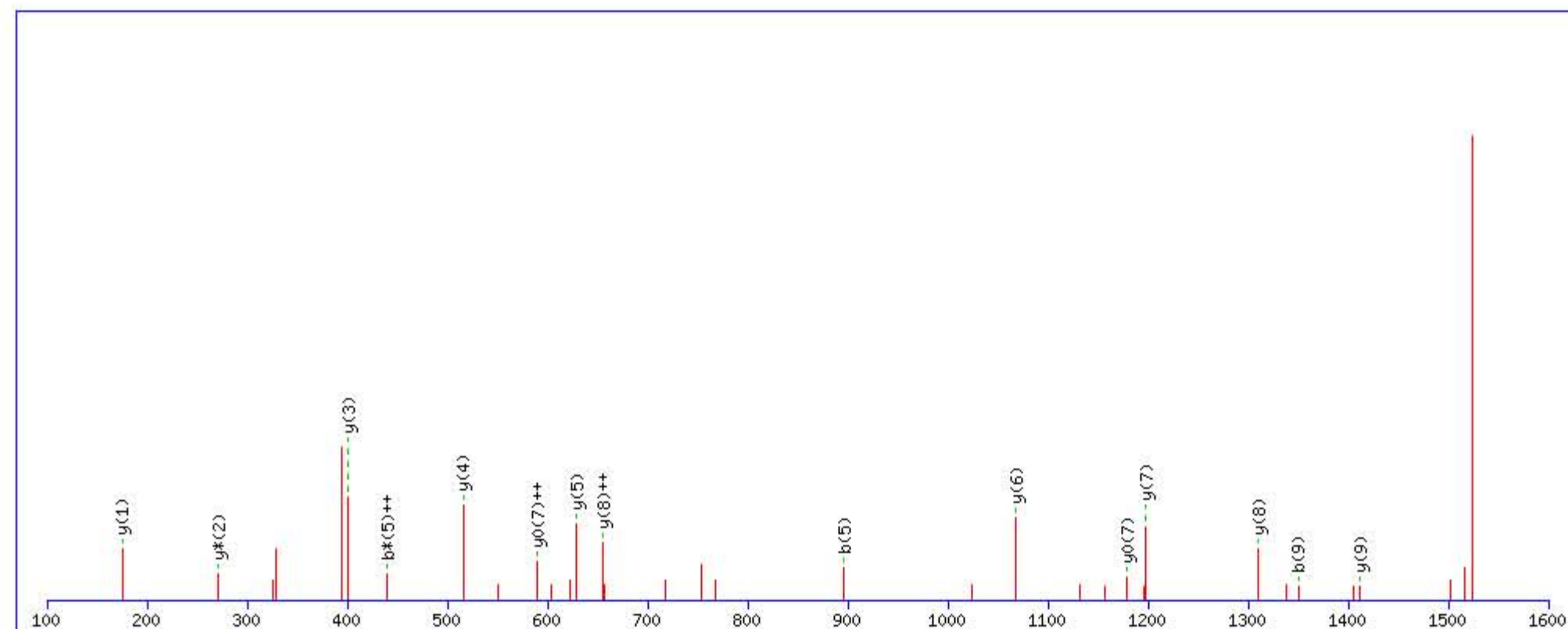
Title: Locus:1.1.1.3569.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1523.874512

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

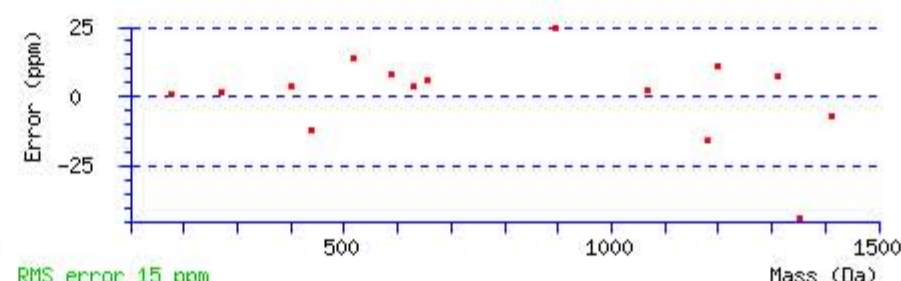
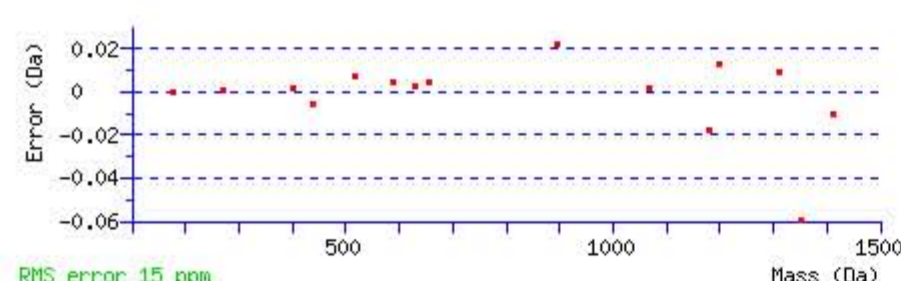
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 49 Expect: 0.00016

Matches : 15/92 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							10
2	215.139019	108.073147			197.128454	99.067865	T	1411.797749	706.402513	1394.771200	697.889238	1393.787184	697.397230	9
3	328.223083	164.615179			310.212518	155.609897	L	1310.750070	655.878673	1293.723521	647.365399	1292.739505	646.873391	8
4	457.265676	229.136476			439.255111	220.131193	E	1197.666006	599.336641	1180.639457	590.823367	1179.655441	590.331358	7
5	896.491002	448.749139	879.464453	440.235865	878.480437	439.743857	Q	1068.623413	534.815345	1051.596864	526.302070	1050.612848	525.810062	6
6	1009.575066	505.291171	992.548517	496.777897	991.564501	496.285889	I	629.398087	315.202681	612.371538	306.689407	611.387522	306.197399	5
7	1124.602009	562.804643	1107.575460	554.291368	1106.591444	553.799360	D	516.314023	258.660649	499.287474	250.147375	498.303458	249.655367	4
8	1237.686073	619.346675	1220.659524	610.833400	1219.675508	610.341392	L	401.287080	201.147178	384.260531	192.633903			3
9	1350.770137	675.888707	1333.743588	667.375432	1332.759572	666.883424	I	288.203016	144.605146	271.176467	136.091871			2
10							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LTLEQIDLIR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
49.1	1523.874512	-0.002844	<a href="#">LTLEQIDLIR</a>
12.8	1523.867111	0.004557	<a href="#">TLIEAGLPQKVAER</a>
12.3	1523.878357	-0.006689	<a href="#">TLLADKGEIRVGPR</a>
8.1	1523.878357	-0.006689	<a href="#">LVDLVNQRDALIR</a>
1.8	1523.849365	0.022303	<a href="#">TLLQQNQQLK</a>
1.8	1523.849365	0.022303	<a href="#">TLLQQNQQLK</a>
1.0	1523.857224	0.014444	<a href="#">TLIRPTYRVSYR</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **ADQVCINLR**

Found in **FBLN3\_HUMAN**, EGF-containing fibulin-like extracellular matrix protein 1 OS=Homo sapiens GN=EFEMP1 PE=1 SV=2

Match to Query 23581: 1398.701568 from(700.358060,2+) rtinseconds(2038) index(32107)

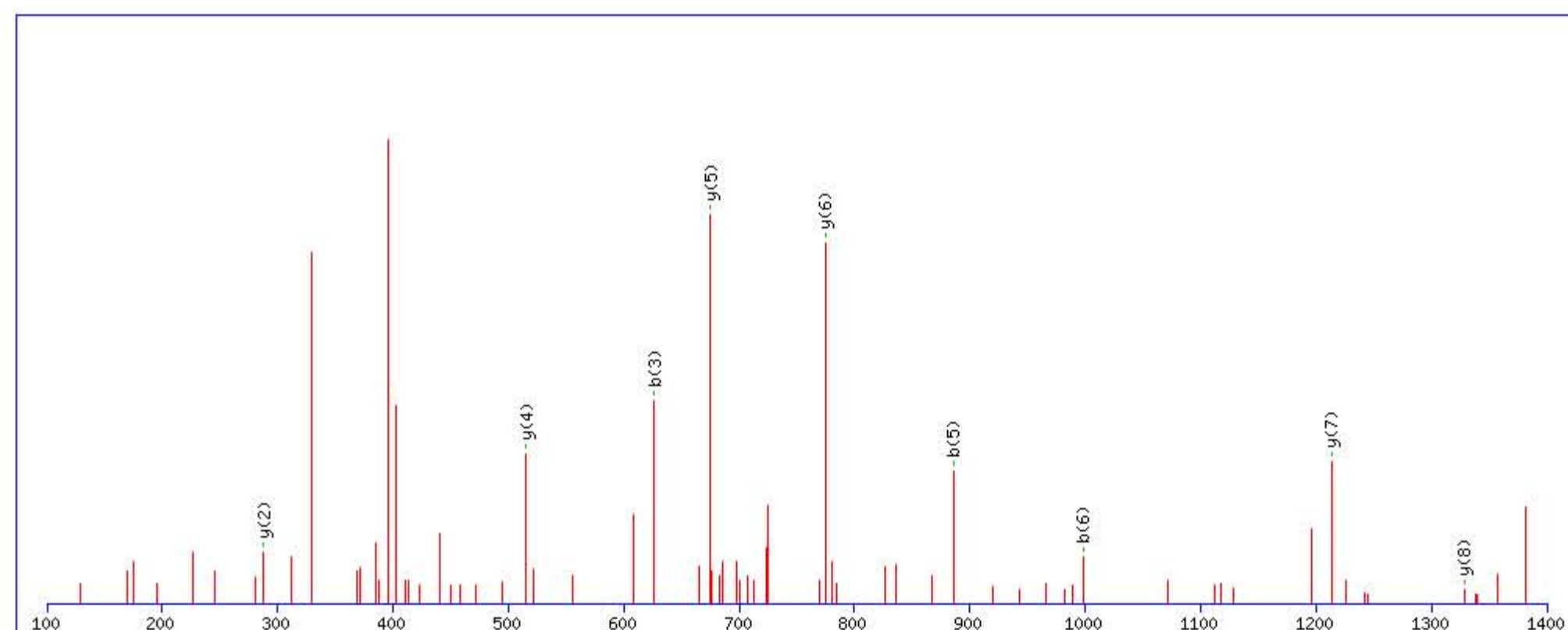
Title: Locus:1.1.1.3373.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1398.711166

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

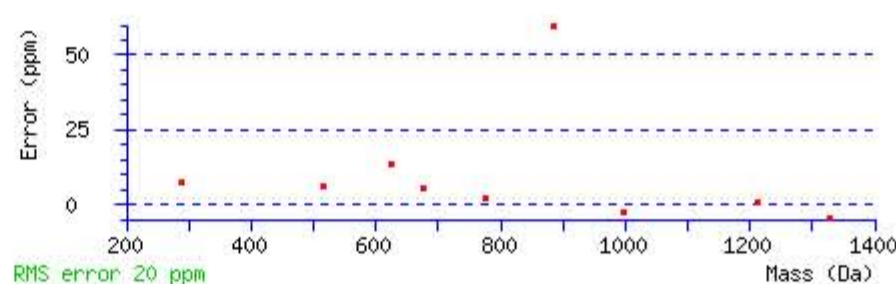
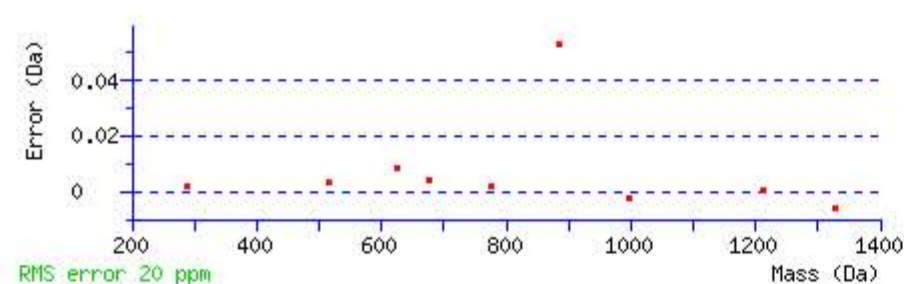
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 46 Expect: 0.00018

Matches : 9/76 fragment ions using 13 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							9
2	187.071333	94.039304			169.060768	85.034022	D	<b>1328.681339</b>	664.844308	1311.654790	656.331033	1310.670774	655.839025	8
3	<b>626.296659</b>	313.651968	609.270110	305.138693	608.286094	304.646685	Q	<b>1213.654396</b>	607.330836	1196.627847	598.817562			7
4	725.365073	363.186175	708.338524	354.672900	707.354508	354.180892	V	<b>774.429070</b>	387.718173	757.402521	379.204898			6
5	<b>885.395722</b>	443.201499	868.369173	434.688225	867.385157	434.196217	C	<b>675.360656</b>	338.183966	658.334107	329.670691			5
6	<b>998.479786</b>	499.743531	981.453237	491.230257	980.469221	490.738249	I	<b>515.330007</b>	258.168641	498.303458	249.655367			4
7	1112.522713	556.764995	1095.496164	548.251720	1094.512148	547.759712	N	402.245943	201.626609	385.219394	193.113335			3
8	1225.606777	613.307027	1208.580228	604.793752	1207.596212	604.301744	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
9							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [ADQVCINLR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
45.8	1398.711166	-0.009598	<a href="#">ADQVCINLR</a>
5.5	1398.703766	-0.002198	<a href="#">GERMADGAPLAGVR</a>
4.2	1398.696396	0.005172	<a href="#">RDGGKVDTSATHR</a>
3.6	1398.721527	-0.019959	<a href="#">AATASAGAGGIDGKPR</a>
3.5	1398.703766	-0.002198	<a href="#">DQAIQSRDR</a>
1.8	1398.689163	0.012405	<a href="#">APSTYTYTSRPR</a>
0.7	1398.703781	-0.002213	<a href="#">AVVHMNGKEVSGR</a>
0.2	1398.704422	-0.002854	<a href="#">LWATDHYQPLR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **RGEQCVDIDECTIPPYCHQR**

Found in **FBLN3\_HUMAN**, EGF-containing fibulin-like extracellular matrix protein 1 OS=Homo sapiens GN=EFEMP1 PE=1 SV=2

Match to Query 52112: 2843.260496 from(711.822400,4+) rtinseconds(1794) index(30569)

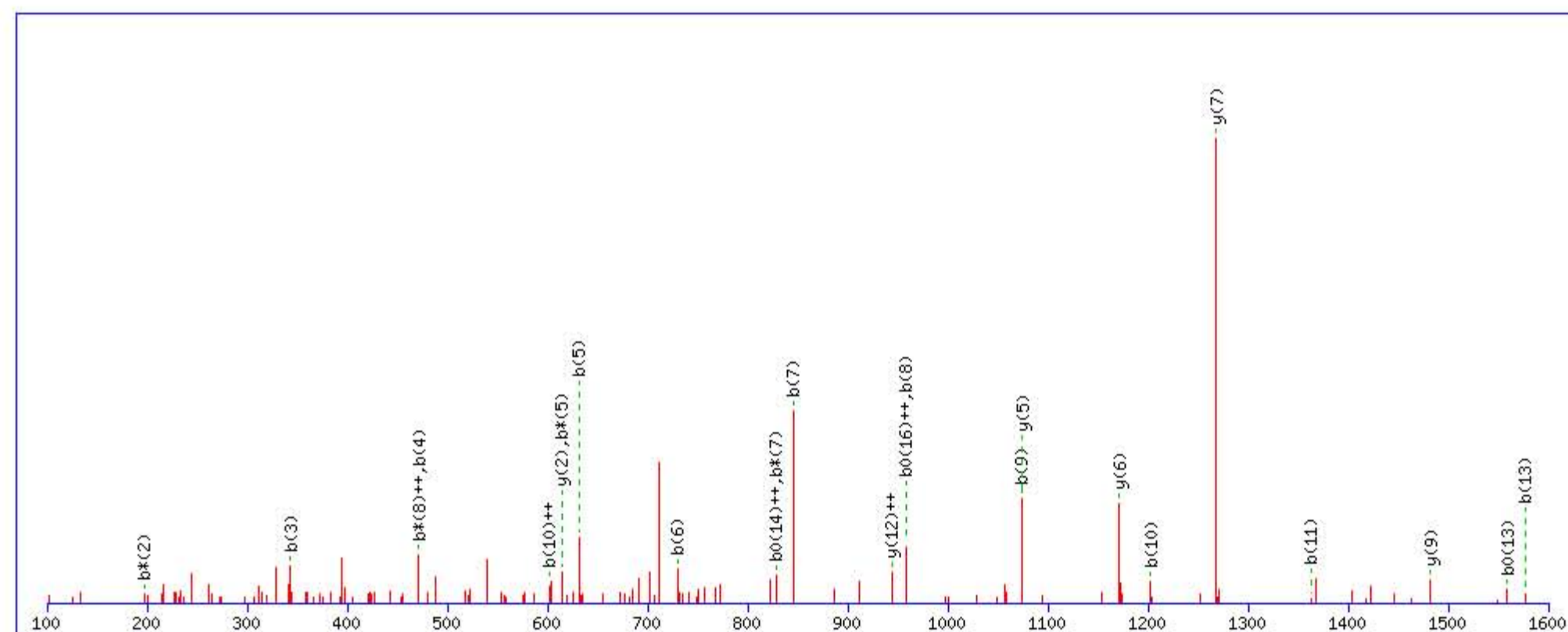
Title: Locus:1.1.1.3288.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2843.261169

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

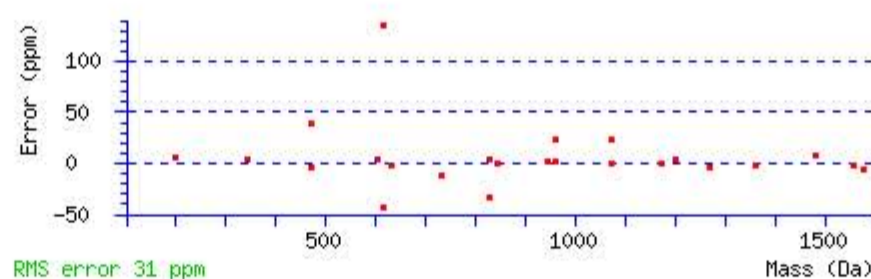
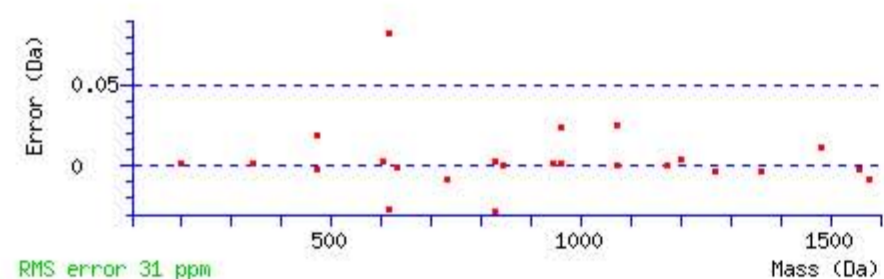
Variable modifications:

Q19 : Biotin:Thermo-21345 (Q)

Ions Score: 58 Expect: 1e-005

Matches : 24/208 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	157.108387	79.057831	140.081838	70.544557			R							20
2	214.129851	107.568564	197.103302	99.055289			G	2688.167329	1344.587302	2671.140780	1336.074028	2670.156764	1335.582020	19
3	343.172444	172.089860	326.145895	163.576585	325.161879	163.084577	E	2631.145865	1316.076570	2614.119316	1307.563296	2613.135300	1307.071288	18
4	471.231022	236.119149	454.204473	227.605875	453.220457	227.113867	Q	2502.103272	1251.555274	2485.076723	1243.041999	2484.092707	1242.549991	17
5	631.261671	316.134474	614.235122	307.621199	613.251106	307.129191	C	2374.044694	1187.525985	2357.018145	1179.012710	2356.034129	1178.520702	16
6	730.330085	365.668681	713.303536	357.155406	712.319520	356.663398	V	2214.014045	1107.510660	2196.987496	1098.997386	2196.003480	1098.505378	15
7	845.357028	423.182152	828.330479	414.668878	827.346463	414.176870	D	2114.945631	1057.976453	2097.919082	1049.463179	2096.935066	1048.971171	14
8	958.441092	479.724184	941.414543	471.210910	940.430527	470.718902	I	1999.918688	1000.462982	1982.892139	991.949708	1981.908123	991.457700	13
9	1073.468035	537.237656	1056.441486	528.724381	1055.457470	528.232373	D	1886.834624	943.920950	1869.808075	935.407676	1868.824059	934.915668	12
10	1202.510628	601.758952	1185.484079	593.245678	1184.500063	592.753670	E	1771.807681	886.407479	1754.781132	877.894204	1753.797116	877.402196	11
11	1362.541277	681.774277	1345.514728	673.261002	1344.530712	672.768994	C	1642.765088	821.886182	1625.738539	813.372908	1624.754523	812.880900	10
12	1463.588956	732.298116	1446.562407	723.784842	1445.578391	723.292834	T	1482.734439	741.870858	1465.707890	733.357583	1464.723874	732.865575	9
13	1576.673020	788.840148	1559.646471	780.326874	1558.662455	779.834866	I	1381.686760	691.347018	1364.660211	682.833744			8
14	1673.725784	837.366530	1656.699235	828.853256	1655.715219	828.361248	P	1268.602696	634.804986	1251.576147	626.291712			7
15	1770.778548	885.892912	1753.751999	877.379638	1752.767983	876.887630	P	1171.549932	586.278604	1154.523383	577.765330			6
16	1933.841877	967.424577	1916.815328	958.911302	1915.831312	958.419294	Y	1074.497168	537.752222	1057.470619	529.238948			5
17	2093.872526	1047.439901	2076.845977	1038.926626	2075.861961	1038.434618	C	911.433839	456.220558	894.407290	447.707283			4
18	2230.931438	1115.969357	2213.904889	1107.456082	2212.920873	1106.964074	H	751.403190	376.205233	734.376641	367.691959			3
19	2670.156764	1335.582020	2653.130215	1327.068746	2652.146199	1326.576738	Q	614.344278	307.675777	597.317729	299.162503			2
20							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **RGEQCVDIDECTIPPYCHQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
57.7	2843.261169	-0.000673	<a href="#">RGEQCVDIDECTIPPYCHQR</a>

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

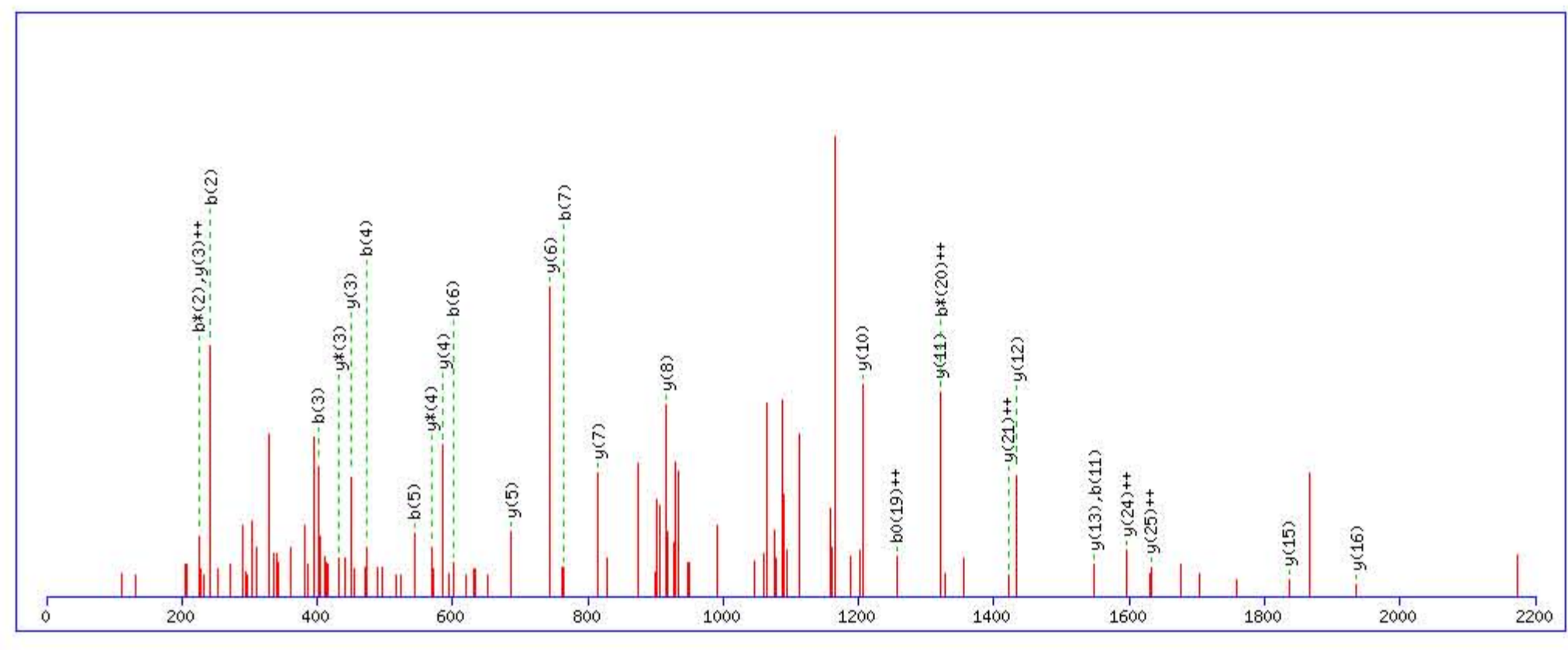
**MASCOT** Mascot Search Results

Peptide View

MS/MS Fragmentation of **IQCAAGYEQSEHNVCQDIDECTAGTHNCR**  
 Found in **FBLN3\_HUMAN**, EGF-containing fibulin-like extracellular matrix protein 1 OS=Homo sapiens GN=EFEMP1 PE=1 SV=2

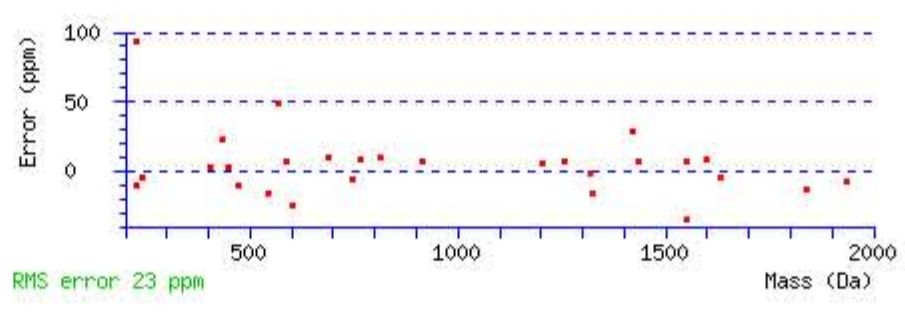
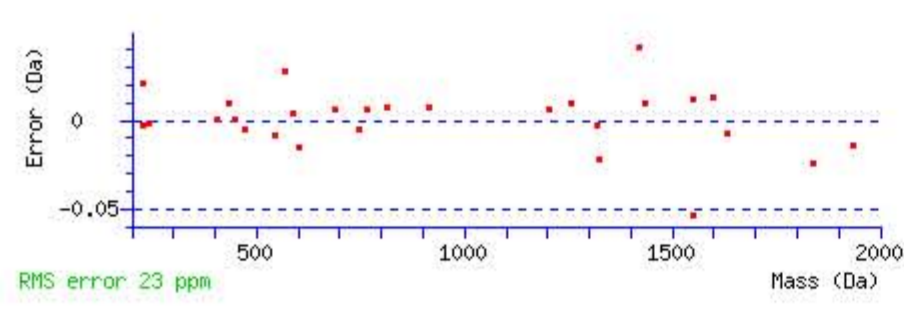
Match to Query 61095: 3733.534576 from(934.390920,4+) rtinseconds(1769) index(30392)  
 Title: Locus:1.1.1.3279.23 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3733.543625  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q9 : Biotin:Thermo-21345 (Q)  
 Ions Score: 48 Expect: 1.7e-005  
 Matches : 28/312 fragment ions using 63 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							29
2	<b>242.149918</b>	121.578597	<b>225.123369</b>	113.065323			Q	3621.466836	1811.237056	3604.440287	1802.723781	3603.456271	1802.231773	28
3	<b>402.180567</b>	201.593922	385.154018	193.080647			C	3493.408258	1747.207767	3476.381709	1738.694492	3475.397693	1738.202484	27
4	<b>473.217681</b>	237.112479	456.191132	228.599204			A	3333.377609	1667.192442	3316.351060	1658.679168	3315.367044	1658.187160	26
5	<b>544.254795</b>	272.631036	527.228246	264.117761			A	3262.340495	<b>1631.673885</b>	3245.313946	1623.160611	3244.329930	1622.668603	25
6	<b>601.276259</b>	301.141768	584.249710	292.628493			G	3191.303381	<b>1596.155328</b>	3174.276832	1587.642054	3173.292816	1587.150046	24
7	<b>764.339588</b>	382.673432	747.313039	374.160158			Y	3134.281917	1567.644596	3117.255368	1559.131322	3116.271352	1558.639314	23
8	893.382181	447.194729	876.355632	438.681454	875.371616	438.189446	E	2971.218588	1486.112932	2954.192039	1477.599657	2953.208023	1477.107649	22
9	1332.607507	666.807391	1315.580958	658.294117	1314.596942	657.802109	Q	2842.175995	<b>1421.591635</b>	2825.149446	1413.078361	2824.165430	1412.586353	21
10	1419.639535	710.323406	1402.612986	701.810131	1401.628970	701.318123	S	2402.950669	1201.978972	2385.924120	1193.465698	2384.940104	1192.973690	20
11	<b>1548.682128</b>	774.844702	1531.655579	766.331428	1530.671563	765.839420	E	2315.918641	1158.462958	2298.892092	1149.949684	2297.908076	1149.457676	19
12	1685.741040	843.374158	1668.714491	834.860884	1667.730475	834.368876	H	2186.876048	1093.941662	2169.849499	1085.428387	2168.865483	1084.936379	18
13	1799.783967	900.395622	1782.757418	891.882347	1781.773402	891.390339	N	2049.817136	1025.412206	2032.790587	1016.898931	2031.806571	1016.406923	17
14	1898.852381	949.929829	1881.825832	941.416554	1880.841816	940.924546	V	<b>1935.774209</b>	968.390742	1918.747660	959.877468	1917.763644	959.385460	16
15	2058.883030	1029.945153	2041.856481	1021.431879	2040.872465	1020.939871	C	<b>1836.705795</b>	918.856535	1819.679246	910.343261	1818.695230	909.851253	15
16	2186.941608	1093.974442	2169.915059	1085.461167	2168.931043	1084.969159	Q	1676.675146	838.841211	1659.648597	830.327936	1658.664581	829.835928	14
17	2301.968551	1151.487913	2284.942002	1142.974639	2283.957986	1142.482631	D	<b>1548.616568</b>	774.811922	1531.590019	766.298647	1530.606003	765.806639	13
18	2415.052615	1208.029945	2398.026066	1199.516671	2397.042050	1199.024663	I	<b>1433.589625</b>	717.298450	1416.563076	708.785176	1415.579060	708.293168	12
19	2530.079558	1265.543417	2513.053009	1257.030142	2512.068993	1256.538134	D	<b>1320.505561</b>	660.756418	1303.479012	652.243144	1302.494996	651.751136	11
20	2659.122151	1330.064713	2642.095602	<b>1321.551439</b>	2641.111586	1321.059431	E	<b>1205.478618</b>	603.242947	1188.452069	594.729672	1187.468053	594.237664	10
21	2819.152800	1410.080038	2802.126251	1401.566763	2801.142235	1401.074755	C	1076.436025	538.721650	1059.409476	530.208376	1058.425460	529.716368	9
22	2920.200479	1460.603877	2903.173930	1452.090603	2902.189914	1451.598595	T	<b>916.405376</b>	458.706326	899.378827	450.193051	898.394811	449.701043	8
23	2991.237593	1496.122434	2974.211044	1487.609160	2973.227028	1487.117152	A	<b>815.357697</b>	408.182486	798.331148	399.669212	797.347132	399.177204	7
24	3048.259057	1524.633166	3031.232508	1516.119892	3030.248492	1515.627884	G	<b>744.320583</b>	372.663929	727.294034	364.150655	726.310018	363.658647	6
25	3149.306736	1575.157006	3132.280187	1566.643731	3131.296171	1566.151723	T	<b>687.299119</b>	344.153197	670.272570	335.639923	669.288554	335.147915	5
26	3286.365648	1643.686462	3269.339099	1635.173187	3268.355083	1634.681179	H	<b>586.251440</b>	293.629358	<b>569.224891</b>	285.116083			4
27	3400.408575	1700.707925	3383.382026	1692.194651	3382.398010	1691.702643	N	<b>449.192528</b>	<b>225.099902</b>	<b>432.165979</b>	216.586627			3
28	3560.439224	1780.723250	3543.412675	1772.209975	3542.428659	1771.717967	C	335.149601	168.078438	318.123052	159.565164			2
29							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **IQCAAGYEQSEHNVCQDIDECTAGTHNCR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
47.6	3733.543625	-0.009049	<a href="#">IQCAAGYEQSEHNVCQDIDECTAGTHNCR</a>
33.5	3733.543625	-0.009049	<a href="#">IQCAAGYEQSEHNVCQDIDECTAGTHNCR</a>
27.0	3733.543625	-0.009049	<a href="#">IQCAAGYEQSEHNVCQDIDECTAGTHNCR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LLPAQLPAEK**

Found in **ECM1\_HUMAN**, Extracellular matrix protein 1 OS=Homo sapiens GN=ECM1 PE=1 SV=2

Match to Query 23261: 1389.811308 from(695.912930,2+) rtinseconds(2065) index(5290)

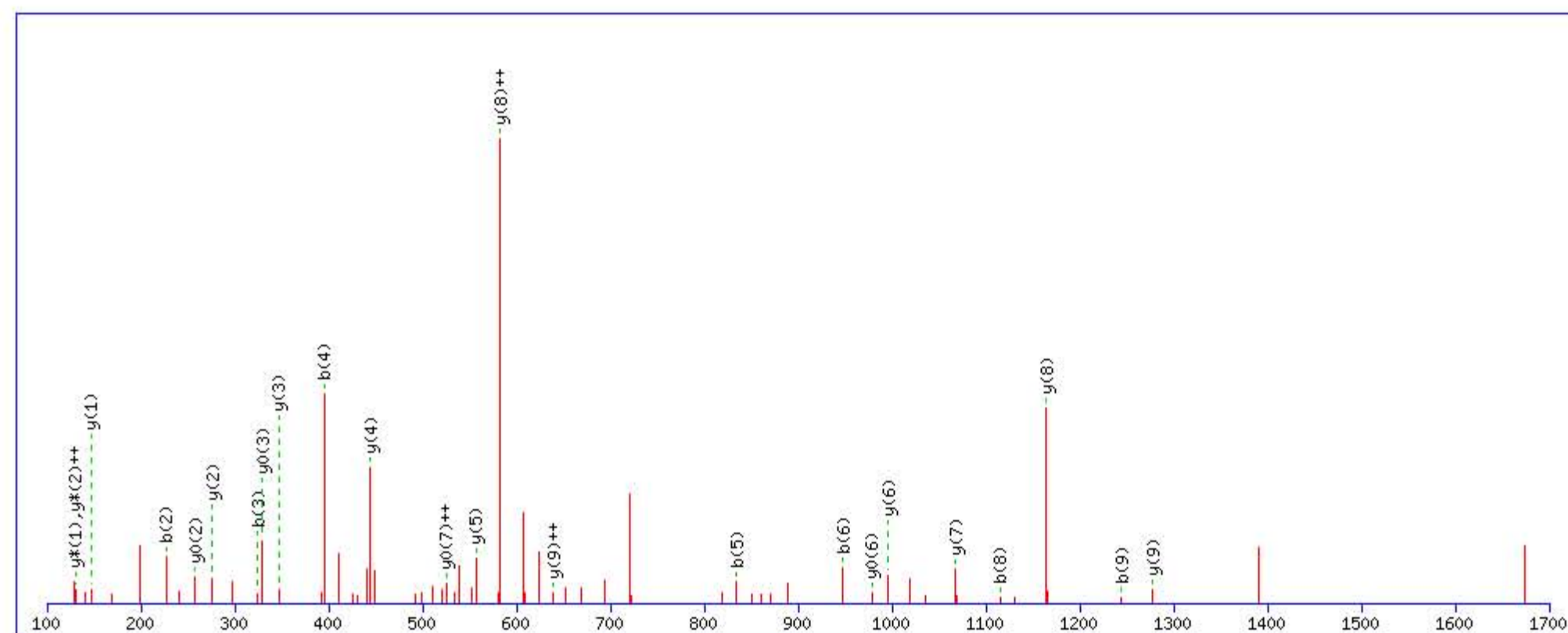
Title: Locus:1.1.1.3239.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1389.805359

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

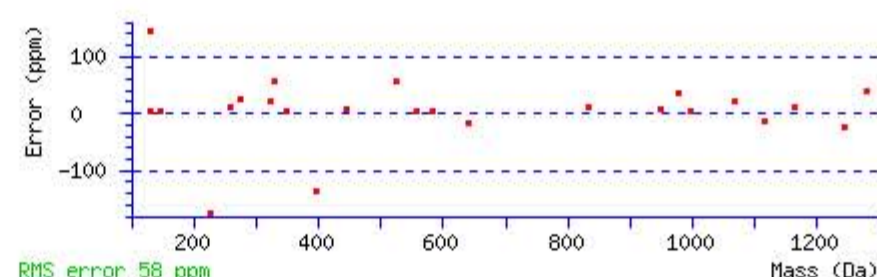
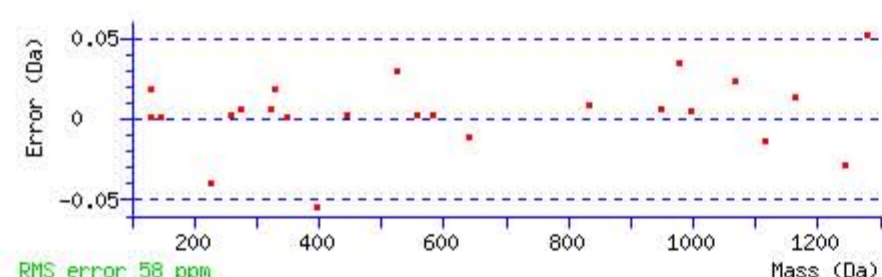
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 50 Expect: 6e-005

Matches : 24/82 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							10
2	<b>227.175404</b>	114.091340					L	<b>1277.728607</b>	<b>639.367942</b>	1260.702058	630.854667	1259.718042	630.362659	9
3	<b>324.228168</b>	162.617722					P	<b>1164.644543</b>	<b>582.825909</b>	1147.617994	574.312635	1146.633978	573.820627	8
4	<b>395.265282</b>	198.136279					A	<b>1067.591779</b>	534.299527	1050.565230	525.786253	1049.581214	<b>525.294245</b>	7
5	<b>834.490608</b>	417.748942	817.464059	409.235668			Q	<b>996.554665</b>	498.780970	979.528116	490.267696	<b>978.544100</b>	489.775688	6
6	<b>947.574672</b>	474.290974	930.548123	465.777700			L	<b>557.329339</b>	279.168307	540.302790	270.655033	539.318774	270.163025	5
7	1044.627436	522.817356	1027.600887	514.304082			P	<b>444.245275</b>	222.626275	427.218726	214.113001	426.234710	213.620993	4
8	<b>1115.664550</b>	558.335913	1098.638001	549.822639			A	<b>347.192511</b>	174.099893	330.165962	165.586619	<b>329.181946</b>	165.094611	3
9	<b>1244.707143</b>	622.857209	1227.680594	614.343935	1226.696578	613.851927	E	<b>276.155397</b>	138.581336	259.128848	<b>130.068062</b>	<b>258.144832</b>	129.576054	2
10							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of [LLPAQLPAEK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
50.5	1389.805359	0.005949	<a href="#">LLPAQLPAEK</a>
9.6	1389.809189	0.002119	<a href="#">LIKRLDLSYNR</a>
3.2	1389.809204	0.002104	<a href="#">IARVPRLPPDEK</a>
1.1	1389.813232	-0.001924	<a href="#">LIQAPSKFAFLR</a>
1.0	1389.797989	0.013319	<a href="#">LLNLQSLFVTSR</a>
0.9	1389.823135	-0.011827	<a href="#">ILIVITDGQKYK</a>
0.6	1389.816605	-0.005297	<a href="#">ILGPLPKHMIQK</a>
0.4	1389.805359	0.005949	<a href="#">LLSSYLQKK</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **NLPATDPLQR**

Found in **ECM1\_HUMAN**, Extracellular matrix protein 1 OS=Homo sapiens GN=ECM1 PE=1 SV=2

Match to Query 25500: 1434.761708 from(718.388130,2+) rtinseconds(1997) index(19068)

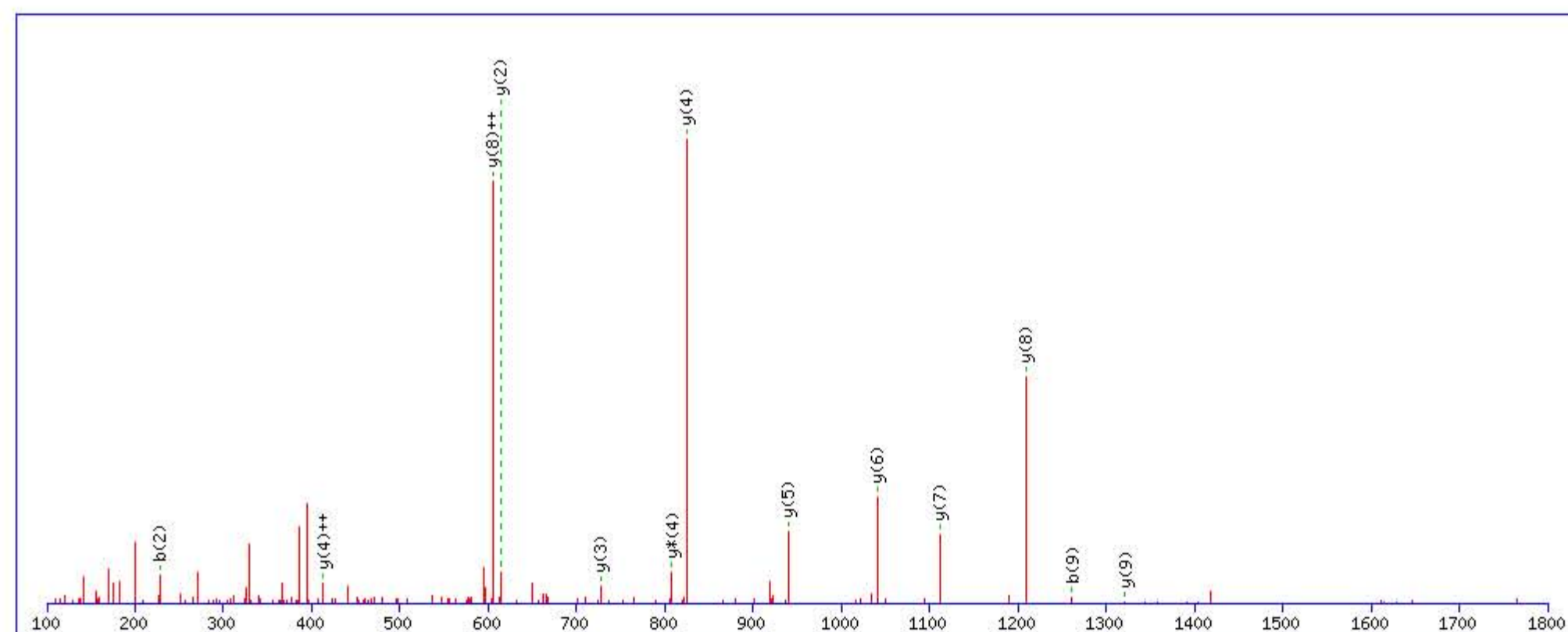
Title: Locus:1.1.1.3261.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1434.765305

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

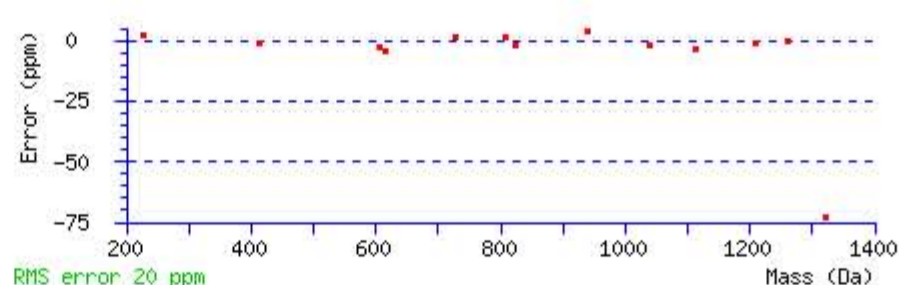
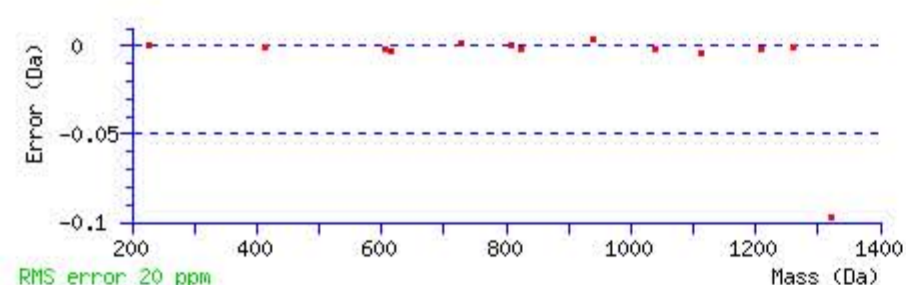
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 52 Expect: 7.5e-005

Matches : 13/92 fragment ions using 26 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							10
2	<b>228.134267</b>	114.570771	211.107718	106.057497			L	<b>1321.729670</b>	661.368473	1304.703121	652.855199	1303.719105	652.363190	9
3	325.187031	163.097153	308.160482	154.583879			P	<b>1208.645606</b>	<b>604.826441</b>	1191.619057	596.313166	1190.635041	595.821158	8
4	396.224145	198.615710	379.197596	190.102436			A	<b>1111.592842</b>	556.300059	1094.566293	547.786784	1093.582277	547.294776	7
5	497.271824	249.139550	480.245275	240.626275	479.261259	240.134267	T	<b>1040.555728</b>	520.781502	1023.529179	512.268227	1022.545163	511.776220	6
6	612.298767	306.653022	595.272218	298.139747	594.288202	297.647739	D	<b>939.508049</b>	470.257662	922.481500	461.744388	921.497484	461.252380	5
7	709.351531	355.179404	692.324982	346.666129	691.340966	346.174121	P	<b>824.481106</b>	<b>412.744191</b>	<b>807.454557</b>	404.230916			4
8	822.435595	411.721436	805.409046	403.208161	804.425030	402.716153	L	<b>727.428342</b>	364.217809	710.401793	355.704534			3
9	<b>1261.660921</b>	631.334098	1244.634372	622.820824	1243.650356	622.328816	Q	<b>614.344278</b>	307.675777	597.317729	299.162502			2
10							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [NLPATDPLQR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
52.4	1434.765305	-0.003597	<a href="#">NLPATDPLQR</a>
7.9	1434.757889	0.003819	<a href="#">NLIRQISSGEYR</a>
3.4	1434.783066	-0.021358	<a href="#">VKDQKLFVSESR</a>
0.7	1434.761932	-0.000224	<a href="#">NIFPSNLVSAAFR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **ELLALIQLER**

Found in **ECM1\_HUMAN**, Extracellular matrix protein 1 OS=Homo sapiens GN=ECM1 PE=1 SV=2

Match to Query 27421: 1507.887508 from(754.951030,2+) rtinseconds(2769) index(23558)

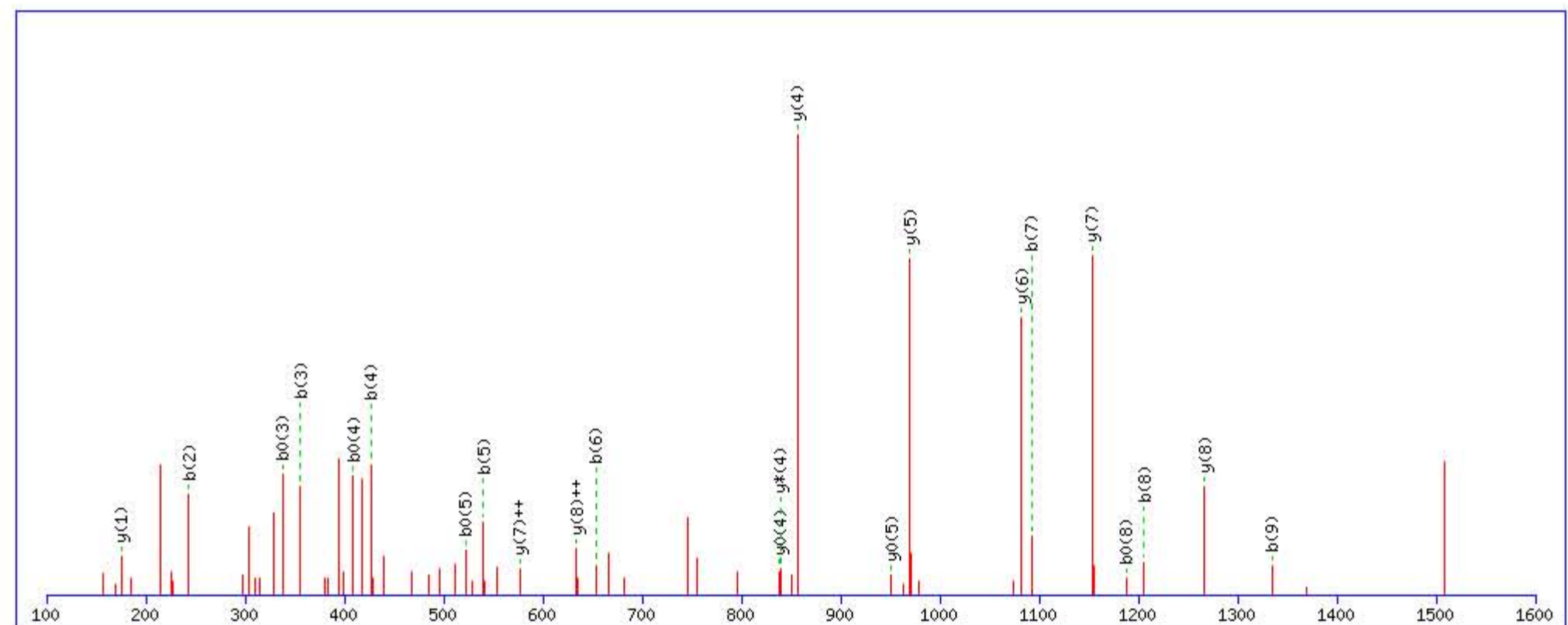
Title: Locus:1.1.1.3528.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1507.879578

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

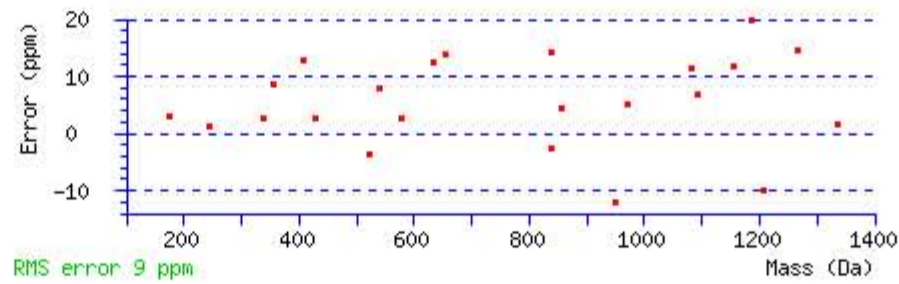
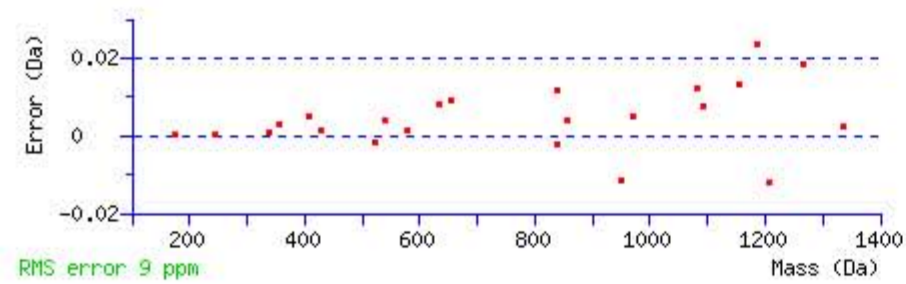
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 56 Expect: 1.7e-005

Matches : 23/94 fragment ions using 35 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							10
2	<b>243.133933</b>	122.070605			225.123368	113.065322	L	1379.844305	690.425790	1362.817756	681.912516	1361.833740	681.420508	9
3	<b>356.217997</b>	178.612637			<b>338.207432</b>	169.607354	L	<b>1266.760241</b>	<b>633.883759</b>	1249.733692	625.370484	1248.749676	624.878476	8
4	<b>427.255111</b>	214.131193			<b>409.244546</b>	205.125911	A	<b>1153.676177</b>	<b>577.341727</b>	1136.649628	568.828452	1135.665612	568.336444	7
5	<b>540.339175</b>	270.673226			<b>522.328610</b>	261.667943	L	<b>1082.639063</b>	541.823169	1065.612514	533.309895	1064.628498	532.817887	6
6	<b>653.423239</b>	327.215258			635.412674	318.209975	I	<b>969.554999</b>	485.281138	952.528450	476.767863	<b>951.544434</b>	476.275855	5
7	<b>1092.648565</b>	546.827921	1075.622016	538.314646	1074.638000	537.822638	Q	<b>856.470935</b>	428.739105	<b>839.444386</b>	420.225831	<b>838.460370</b>	419.733823	4
8	<b>1205.732629</b>	603.369953	1188.706080	594.856678	<b>1187.722064</b>	594.364670	L	417.245609	209.126442	400.219060	200.613168	399.235044	200.121160	3
9	<b>1334.775222</b>	667.891249	1317.748673	659.377975	1316.764657	658.885966	E	304.161545	152.584410	287.134996	144.071136	286.150980	143.579128	2
10							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [ELLALIQLER](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
56.2	1507.879578	0.007930	<a href="#">ELLALIQLER</a>



# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **ELPSLQHPNEQK**

Found in **ECM1\_HUMAN**, Extracellular matrix protein 1 OS=Homo sapiens GN=ECM1 PE=1 SV=2

Match to Query 34222: 1729.884012 from(577.635280,3+) rtinseconds(1690) index(3180)

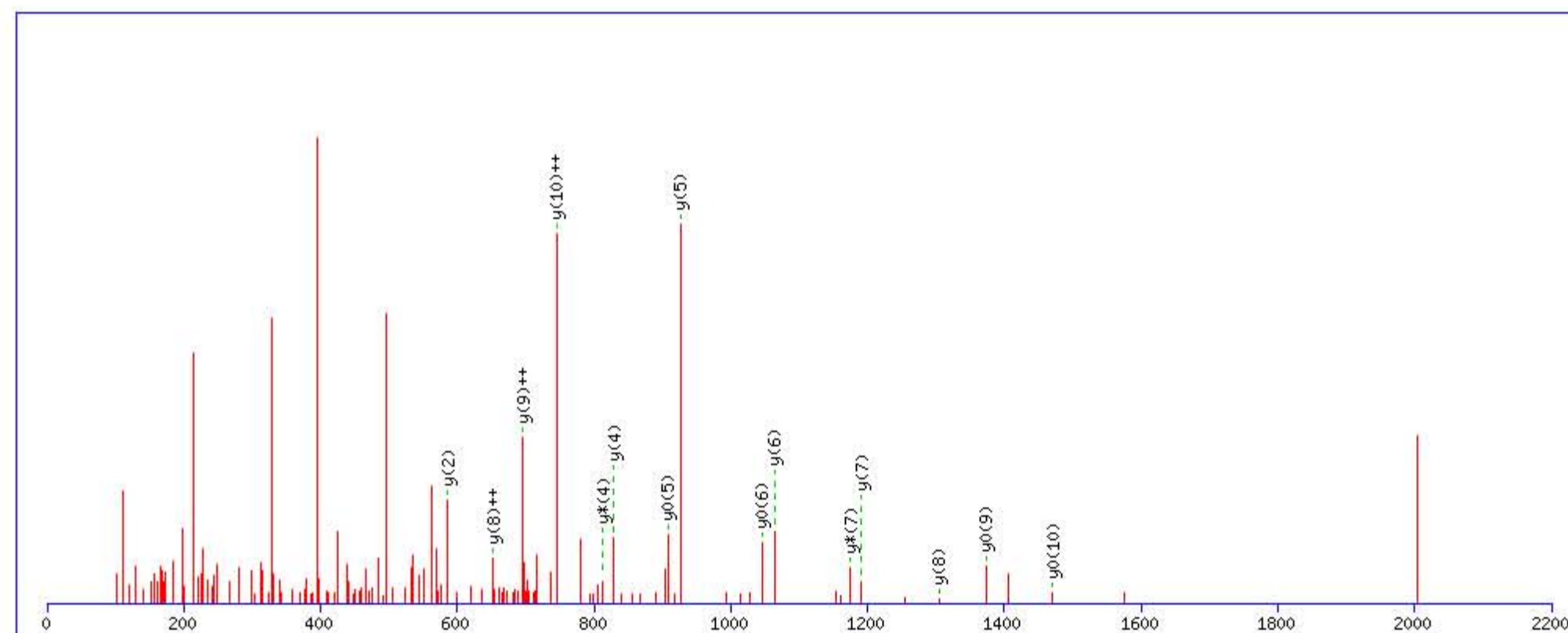
Title: Locus:1.1.1.3108.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1729.882111

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

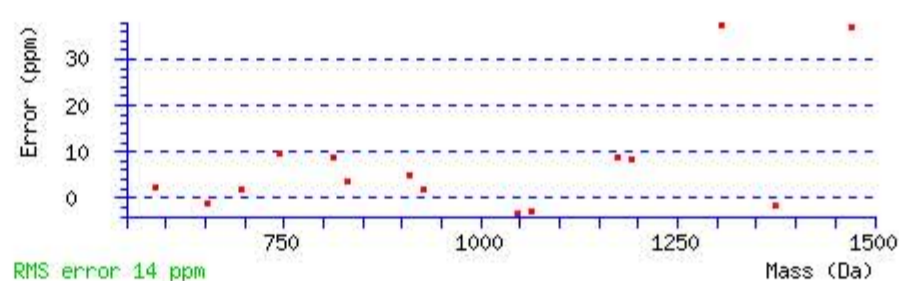
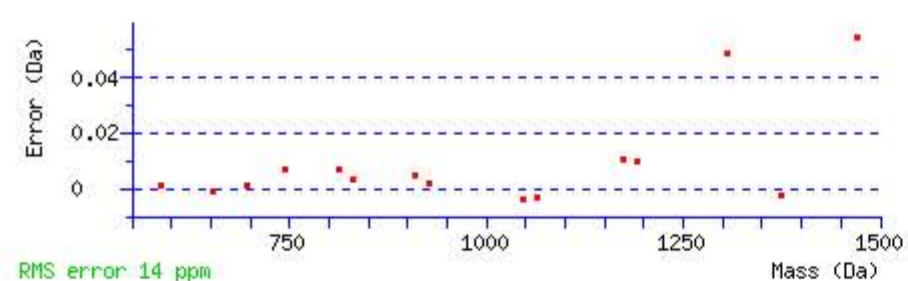
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.063

Matches : 15/118 fragment ions using 28 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							12
2	243.133933	122.070605			225.123368	113.065322	L	1601.846824	801.427050	1584.820275	792.913776	1583.836259	792.421767	11
3	340.186697	170.596987			322.176132	161.591704	P	1488.762760	744.885018	1471.736211	736.371744	1470.752195	735.879736	10
4	427.218725	214.113001			409.208160	205.107718	S	1391.709996	696.358636	1374.683447	687.845362	1373.699431	687.353354	9
5	540.302789	270.655033			522.292224	261.649750	L	1304.677968	652.842622	1287.651419	644.329348	1286.667403	643.837340	8
6	668.361367	334.684322	651.334818	326.171047	650.350802	325.679039	Q	1191.593904	596.300590	1174.567355	587.787316	1173.583339	587.295308	7
7	805.420279	403.213778	788.393730	394.700503	787.409714	394.208495	H	1063.535326	532.271301	1046.508777	523.758027	1045.524761	523.266018	6
8	902.473043	451.740160	885.446494	443.226885	884.462478	442.734877	P	926.476414	463.741845	909.449865	455.228571	908.465849	454.736563	5
9	1016.515970	508.761623	999.489421	500.248349	998.505405	499.756341	N	829.423650	415.215463	812.397101	406.702189	811.413085	406.210181	4
10	1145.558563	573.282920	1128.532014	564.769645	1127.547998	564.277637	E	715.380723	358.194000	698.354174	349.680725	697.370158	349.188717	3
11	1584.783889	792.895583	1567.757340	784.382308	1566.773324	783.890300	Q	586.338130	293.672703	569.311581	285.159429			2
12							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [ELPSLQHPNEQK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
26.4	1729.882111	0.001901	<a href="#">ELPSLQHPNEQK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EVGPPLPQEAVPLQK**

Found in **ECM1\_HUMAN**, Extracellular matrix protein 1 OS=Homo sapiens GN=ECM1 PE=1 SV=2

Match to Query 37690: 1912.059222 from(638.360350,3+) rtinseconds(2266) index(6337)

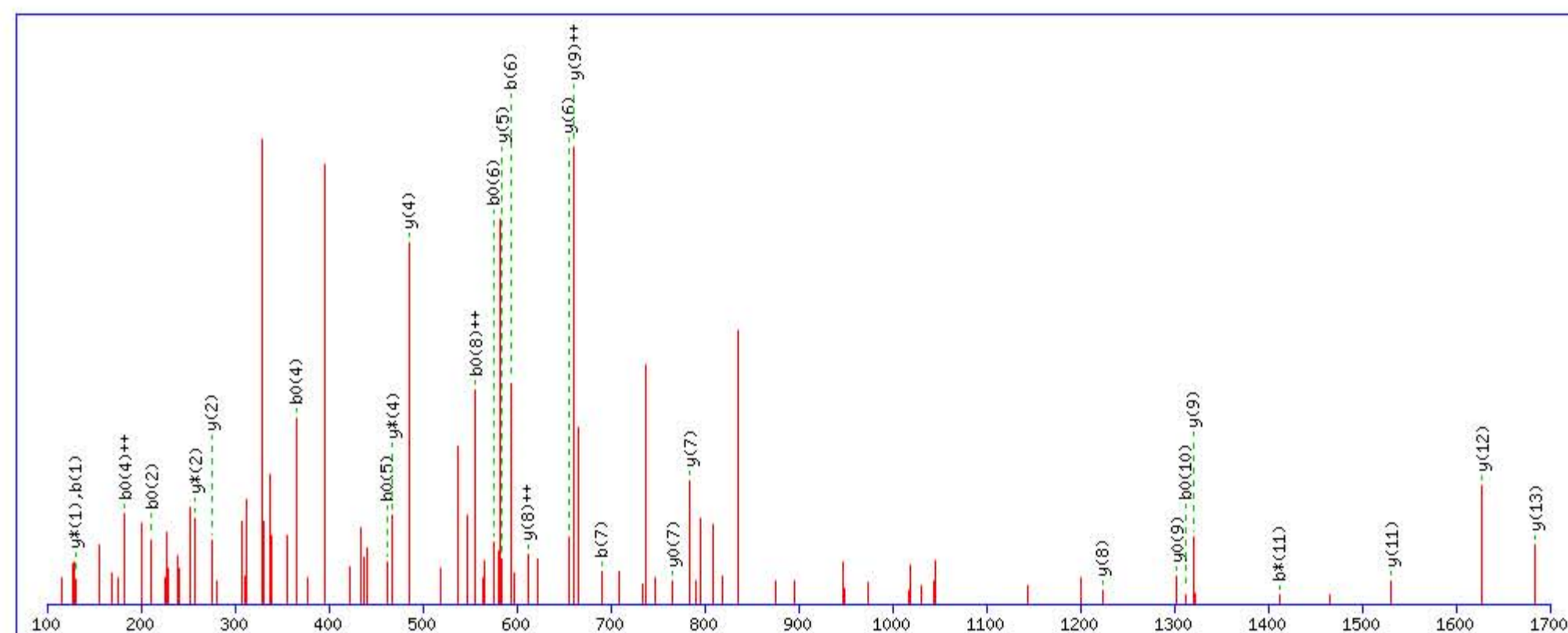
Title: Locus:1.1.1.3309.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1912.049194

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

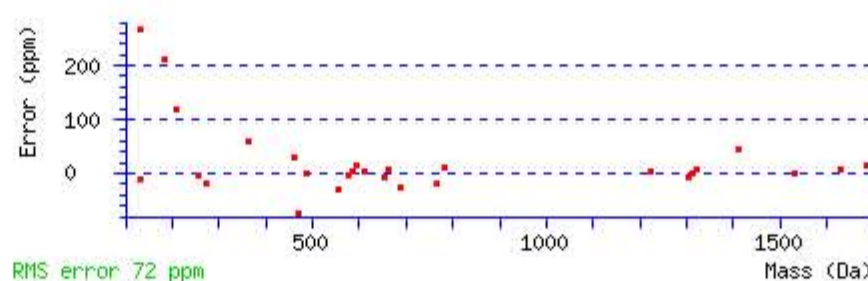
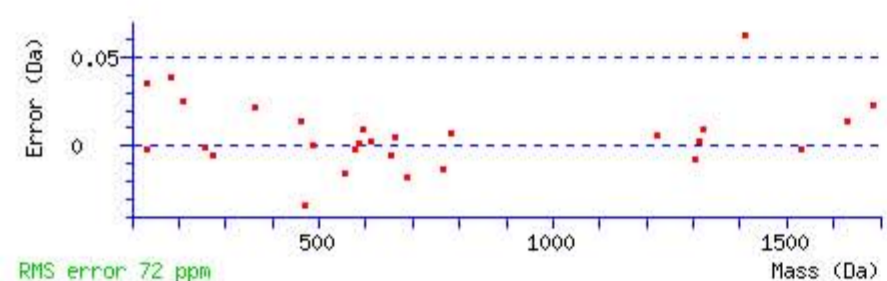
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.023

Matches : 28/142 fragment ions using 90 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>130.049869</b>	65.528572			112.039304	56.523290	E							15
2	229.118283	115.062780			<b>211.107718</b>	106.057497	V	1784.013891	892.510583	1766.987342	883.997309	1766.003326	883.505301	14
3	286.139747	143.573512			268.129182	134.568229	G	<b>1684.945477</b>	842.976377	1667.918928	834.463102	1666.934912	833.971094	13
4	383.192511	192.099894			<b>365.181946</b>	<b>183.094611</b>	P	<b>1627.924013</b>	814.465645	1610.897464	805.952370	1609.913448	805.460362	12
5	480.245275	240.626276			<b>462.234710</b>	231.620993	P	<b>1530.871249</b>	765.939263	1513.844700	757.425988	1512.860684	756.933980	11
6	<b>593.329339</b>	297.168308			<b>575.318774</b>	288.163025	L	1433.818485	717.412881	1416.791936	708.899606	1415.807920	708.407598	10
7	<b>690.382103</b>	345.694690			672.371538	336.689407	P	<b>1320.734421</b>	<b>660.870848</b>	1303.707872	652.357574	<b>1302.723856</b>	651.865566	9
8	1129.607429	565.307353	1112.580880	556.794078	1111.596864	<b>556.302070</b>	Q	<b>1223.681657</b>	<b>612.344466</b>	1206.655108	603.831192	1205.671092	603.339184	8
9	1258.650022	629.828649	1241.623473	621.315375	1240.639457	620.823367	E	<b>784.456331</b>	392.731803	767.429782	384.218529	<b>766.445766</b>	383.726521	7
10	1329.687136	665.347206	1312.660587	656.833932	<b>1311.676571</b>	656.341924	A	<b>655.413738</b>	328.210507	638.387189	319.697232			6
11	1428.755550	714.881413	<b>1411.729001</b>	706.368139	1410.744985	705.876131	V	<b>584.376624</b>	292.691950	567.350075	284.178676			5
12	1525.808314	763.407795	1508.781765	754.894521	1507.797749	754.402513	P	<b>485.308210</b>	243.157743	<b>468.281661</b>	234.644468			4
13	1638.892378	819.949827	1621.865829	811.436553	1620.881813	810.944545	L	388.255446	194.631361	371.228897	186.118086			3
14	1766.950956	883.979116	1749.924407	875.465842	1748.940391	874.973833	Q	<b>275.171382</b>	138.089329	<b>258.144833</b>	129.576054			2
15							K	147.112804	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **EVGPPLPQEAVPLQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
28.2	1912.049194	0.010028	<a href="#">EVGPPLPQEAVPLQK</a>
19.8	1912.049194	0.010028	<a href="#">EVGPPLPQEAVPLQK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VTPNLMGHL CGNQR**

Found in **ECM1\_HUMAN**, Extracellular matrix protein 1 OS=Homo sapiens GN=ECM1 PE=1 SV=2

Match to Query 37841: 1922.931072 from(641.984300,3+) rtinseconds(1674) index(3091)

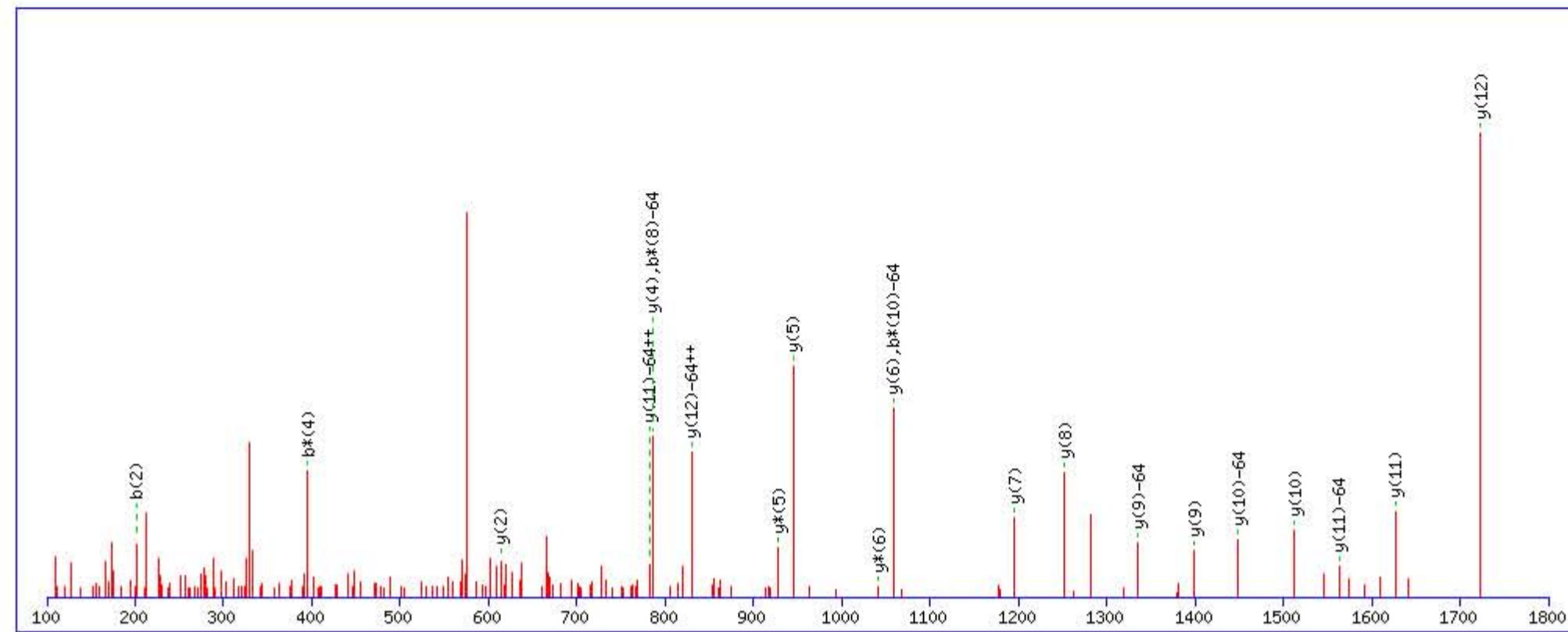
Title: Locus:1.1.1.3102.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1922.927734

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

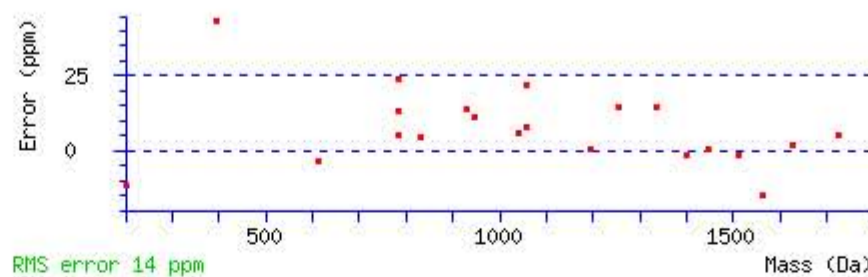
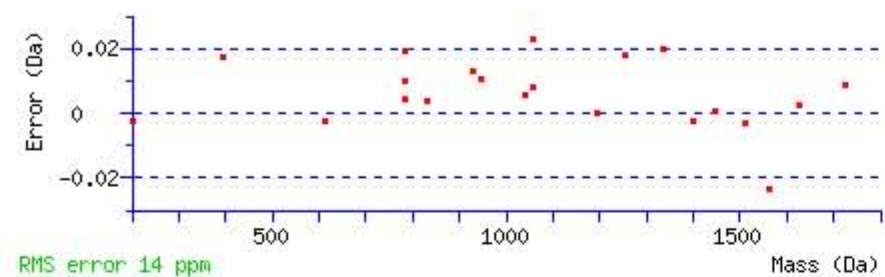
M6 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 60 Expect: 1.9e-005

Matches : 21/194 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							14
2	201.123369	101.065322			183.112804	92.060040	T	1824.866592	912.936934	1807.840043	904.423659	1806.856027	903.931651	13
3	298.176133	149.591704			280.165568	140.586422	P	1723.818913	862.413094	1706.792364	853.899820			12
4	412.219060	206.613168	395.192511	198.099894	394.208495	197.607886	N	1626.766149	813.886712	1609.739600	805.373438			11
5	525.303124	263.155200	508.276575	254.641926	507.292559	254.149918	L	1512.723222	756.865249	1495.696673	748.351974			10
6	672.338524	336.672900	655.311975	328.159626	654.327959	327.667618	M	1399.639158	700.323217	1382.612609	691.809943			9
7	729.359988	365.183632	712.333439	356.670358	711.349423	356.178350	G	1252.603758	626.805517	1235.577209	618.292243			8
8	866.418900	433.713088	849.392351	425.199814	848.408335	424.707806	H	1195.582294	598.294785	1178.555745	589.781511			7
9	979.502964	490.255120	962.476415	481.741846	961.492399	481.249838	L	1058.523382	529.765329	1041.496833	521.252055			6
10	1139.533613	570.270445	1122.507064	561.757170	1121.523048	561.265162	C	945.439318	473.223297	928.412769	464.710022			5
11	1196.555077	598.781177	1179.528528	590.267902	1178.544512	589.775894	G	785.408669	393.207972	768.382120	384.694698			4
12	1310.598004	655.802640	1293.571455	647.289366	1292.587439	646.797357	N	728.387205	364.697241	711.360656	356.183966			3
13	1749.823330	875.415303	1732.796781	866.902029	1731.812765	866.410020	Q	614.344278	307.675777	597.317729	299.162503			2
14							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VTPNLMGHL CGNQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
60.4	1922.927734	0.003338	<a href="#">VTPNLMGHL CGNQR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EVGPPLPQEAVPLQK**

Found in **ECM1\_HUMAN**, Extracellular matrix protein 1 OS=Homo sapiens GN=ECM1 PE=1 SV=2

Match to Query 43674: 2223.248428 from(1112.631490,2+) rtinseconds(2503) index(7561)

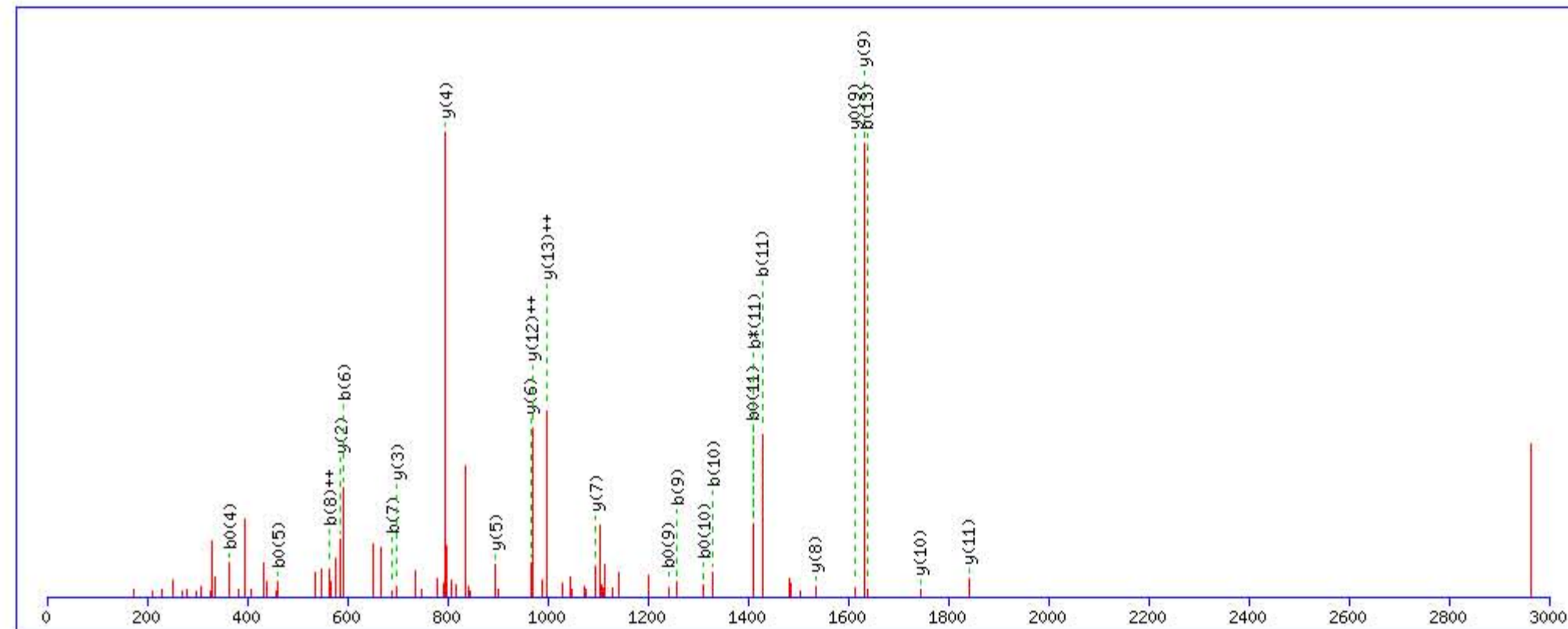
Title: Locus:1.1.1.3391.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2223.215942

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

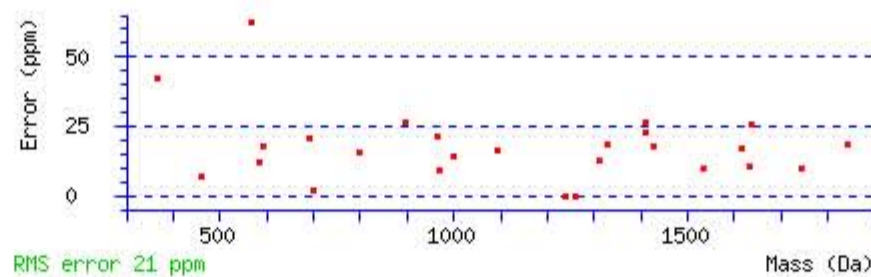
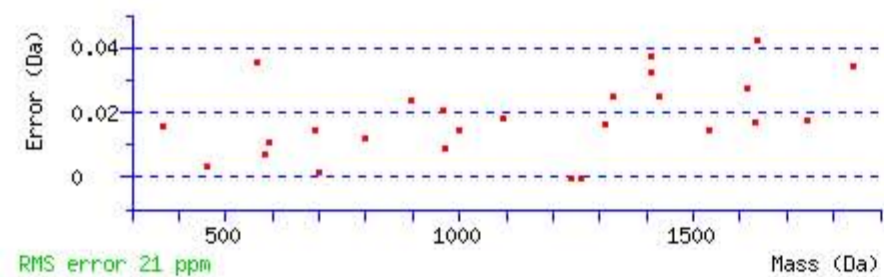
Q8 : Biotin:Thermo-21345 (Q)

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 45 Expect: 0.00034

Matches : 26/142 fragment ions using 58 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							15
2	229.118283	115.062780			211.107718	106.057497	V	2095.180639	1048.093957	2078.154090	1039.580683	2077.170074	1039.088675	14
3	286.139747	143.573512			268.129182	134.568229	G	1996.112225	998.559751	1979.085676	990.046476	1978.101660	989.554468	13
4	383.192511	192.099894			365.181946	183.094611	P	1939.090761	970.049019	1922.064212	961.535744	1921.080196	961.043736	12
5	480.245275	240.626276			462.234710	231.620993	P	1842.037997	921.522637	1825.011448	913.009362	1824.027432	912.517354	11
6	593.329339	297.168308			575.318774	288.163025	L	1744.985233	872.996255	1727.958684	864.482980	1726.974668	863.990972	10
7	690.382103	345.694690			672.371538	336.689407	P	1631.901169	816.454223	1614.874620	807.940948	1613.890604	807.448940	9
8	1129.607429	565.307353	1112.580880	556.794078	1111.596864	556.302070	Q	1534.848405	767.927841	1517.821856	759.414566	1516.837840	758.922558	8
9	1258.650022	629.828649	1241.623473	621.315375	1240.639457	620.823367	E	1095.623079	548.315178	1078.596530	539.801903	1077.612514	539.309895	7
10	1329.687136	665.347206	1312.660587	656.833932	1311.676571	656.341924	A	966.580486	483.793881	949.553937	475.280607			6
11	1428.755550	714.881413	1411.729001	706.368139	1410.744985	705.876131	V	895.543372	448.275324	878.516823	439.762050			5
12	1525.808314	763.407795	1508.781765	754.894521	1507.797749	754.402513	P	796.474958	398.741117	779.448409	390.227843			4
13	1638.892378	819.949827	1621.865829	811.436553	1620.881813	810.944545	L	699.422194	350.214735	682.395645	341.701461			3
14	2078.117704	1039.562490	2061.091155	1031.049215	2060.107139	1030.557207	Q	586.338130	293.672703	569.311581	285.159429			2
15							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EVGPPLPQEAVPLQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
44.5	2223.215942	0.032486	<a href="#">EVGPPLPQEAVPLQK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **FSCFQEEAPQPHYQLR**

Found in **ECM1\_HUMAN**, Extracellular matrix protein 1 OS=Homo sapiens GN=ECM1 PE=1 SV=2

Match to Query 45810: 2347.080942 from(783.367590,3+) rtinseconds(1955) index(18794)

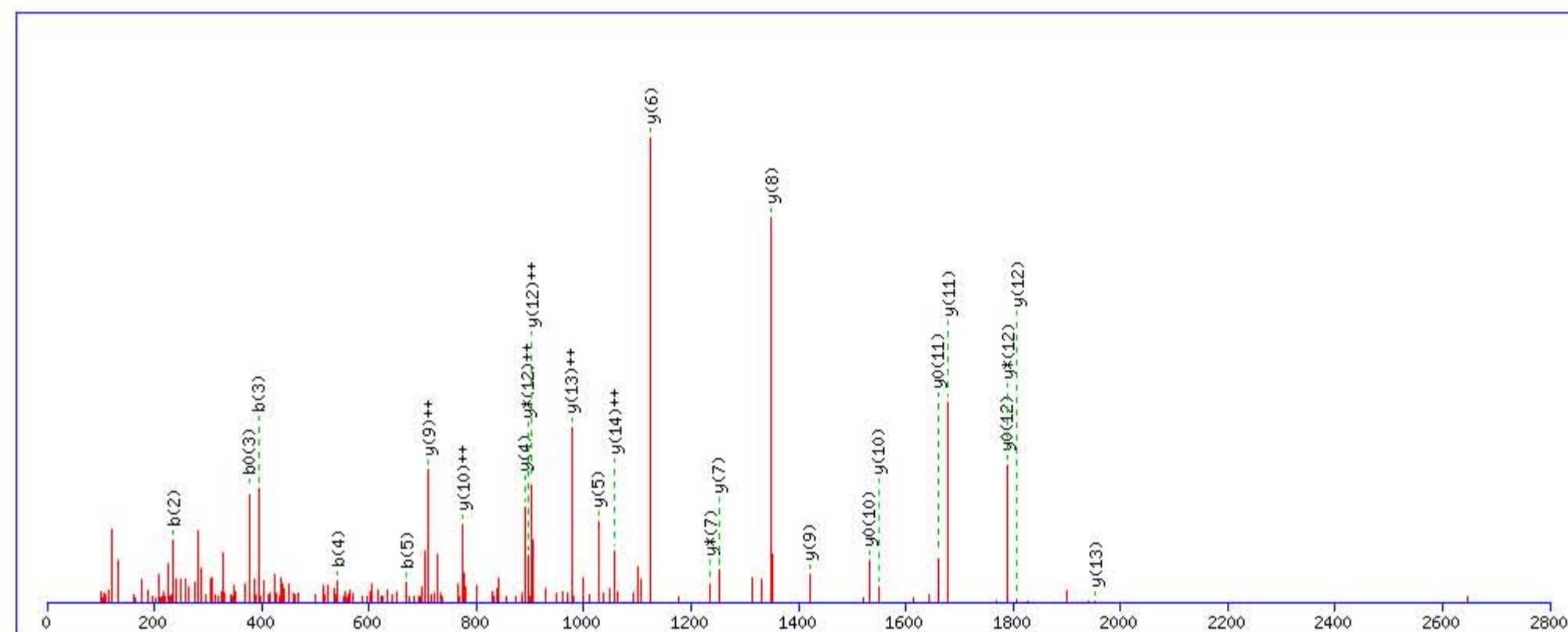
Title: Locus:1.1.1.3246.21 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2347.087784

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

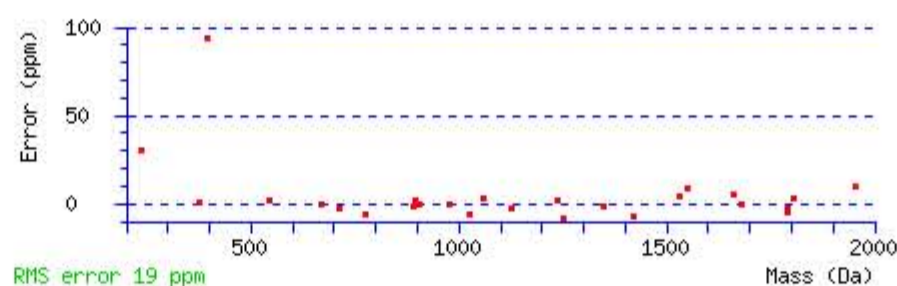
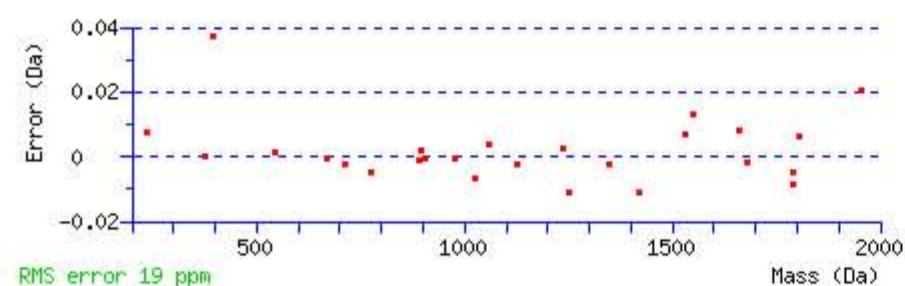
Variable modifications:

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 64 Expect: 5e-006

Matches : 26/152 fragment ions using 38 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							16
2	<b>235.107718</b>	118.057497			217.097153	109.052214	S	2201.026658	1101.016967	2184.000109	1092.503692	2183.016093	1092.011684	15
3	<b>395.138367</b>	198.072821			<b>377.127802</b>	189.067539	C	2113.994630	<b>1057.500953</b>	2096.968081	1048.987678	2095.984065	1048.495670	14
4	<b>542.206781</b>	271.607029			524.196216	262.601746	F	<b>1953.963981</b>	<b>977.485629</b>	1936.937432	968.972354	1935.953416	968.480346	13
5	<b>670.265359</b>	335.636318	653.238810	327.123043	652.254794	326.631035	Q	<b>1806.895567</b>	<b>903.951422</b>	<b>1789.869018</b>	<b>895.438147</b>	<b>1788.885002</b>	894.946139	12
6	799.307952	400.157614	782.281403	391.644340	781.297387	391.152332	E	<b>1678.836989</b>	839.922133	1661.810440	831.408858	<b>1660.826424</b>	830.916850	11
7	928.350545	464.678911	911.323996	456.165636	910.339980	455.673628	E	<b>1549.794396</b>	<b>775.400836</b>	1532.767847	766.887562	<b>1531.783831</b>	766.395554	10
8	999.387659	500.197468	982.361110	491.684193	981.377094	491.192185	A	<b>1420.751803</b>	<b>710.879540</b>	1403.725254	702.366265			9
9	1096.440423	548.723850	1079.413874	540.210575	1078.429858	539.718567	P	<b>1349.714689</b>	675.360983	1332.688140	666.847708			8
10	1224.499001	612.753138	1207.472452	604.239864	1206.488436	603.747856	Q	<b>1252.661925</b>	626.834601	<b>1235.635376</b>	618.321326			7
11	1321.551765	661.279520	1304.525216	652.766246	1303.541200	652.274238	P	<b>1124.603347</b>	562.805312	1107.576798	554.292037			6
12	1458.610677	729.808976	1441.584128	721.295702	1440.600112	720.803694	H	<b>1027.550583</b>	514.278930	1010.524034	505.765655			5
13	1621.674006	811.340641	1604.647457	802.827367	1603.663441	802.335358	Y	<b>890.491671</b>	445.749474	873.465122	437.236199			4
14	2060.899332	1030.953304	2043.872783	1022.440030	2042.888767	1021.948022	Q	727.428342	364.217809	710.401793	355.704535			3
15	2173.983396	1087.495336	2156.956847	1078.982061	2155.972831	1078.490053	L	288.203016	144.605146	271.176467	136.091872			2
16							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [FSCFQEEAPQPHYQLR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
64.5	2347.087784	-0.006842	<a href="#">FSCFQEEAPQPHYQLR</a>
31.7	2347.087784	-0.006842	<a href="#">FSCFQEEAPQPHYQLR</a>
1.1	2347.087784	-0.006842	<a href="#">FSCFQEEAPQPHYQLR</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VNDAQEYR**

Found in **FETUB\_HUMAN**, Fetuin-B OS=Homo sapiens GN=FETUB PE=1 SV=2

Match to Query 20430: 1304.618008 from(653.316280,2+) rtinseconds(1497) index(57981)

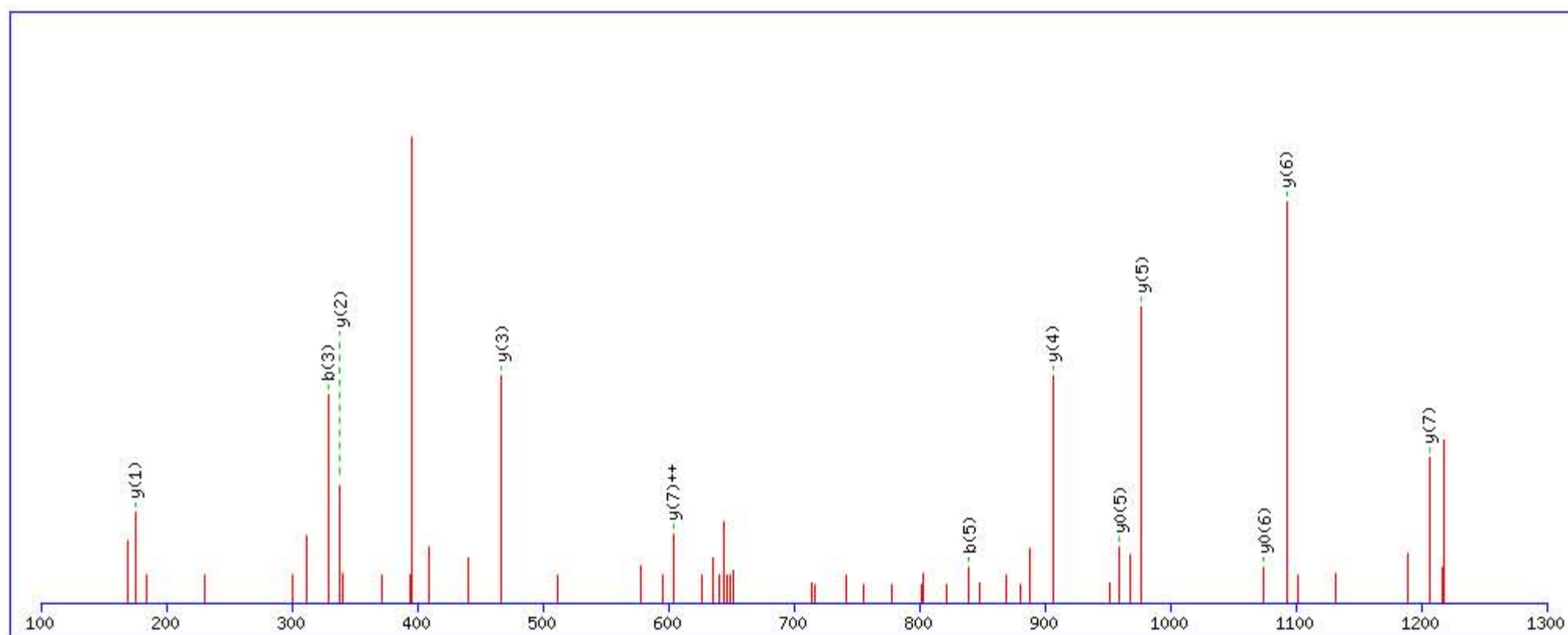
Title: Locus:1.1.1.1432.21 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1304.618301

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

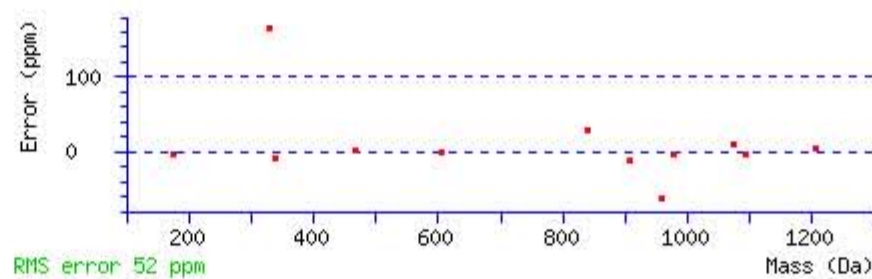
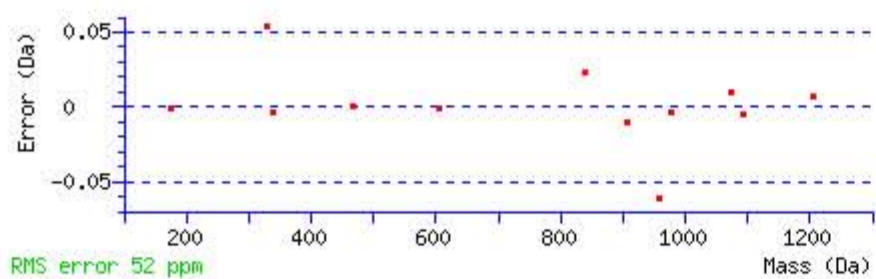
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 49 Expect: 0.00019

Matches : 12/74 fragment ions using 20 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							8
2	214.118617	107.562947	197.092068	99.049672			N	1206.557184	603.782230	1189.530635	595.268956	1188.546619	594.776948	7
3	329.145560	165.076418	312.119011	156.563144	311.134995	156.071136	D	1092.514257	546.760767	1075.487708	538.247492	1074.503692	537.755484	6
4	400.182674	200.594975	383.156125	192.081700	382.172109	191.589692	A	977.487314	489.247295	960.460765	480.734021	959.476749	480.242013	5
5	839.408000	420.207638	822.381451	411.694364	821.397435	411.202356	Q	906.450200	453.728738	889.423651	445.215464	888.439635	444.723456	4
6	968.450593	484.728935	951.424044	476.215660	950.440028	475.723652	E	467.224874	234.116075	450.198325	225.602801	449.214309	225.110793	3
7	1131.513922	566.260599	1114.487373	557.747325	1113.503357	557.255317	Y	338.182281	169.594778	321.155732	161.081504			2
8							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [VNDAQEYR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
48.7	1304.618301	-0.000293	<a href="#">VNDAQEYR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **IFFESVYGQCK**

Found in **FETUB\_HUMAN**, Fetuin-B OS=Homo sapiens GN=FETUB PE=1 SV=2

Match to Query 33451: 1687.821308 from(844.917930,2+) rtinseconds(2340) index(62390)

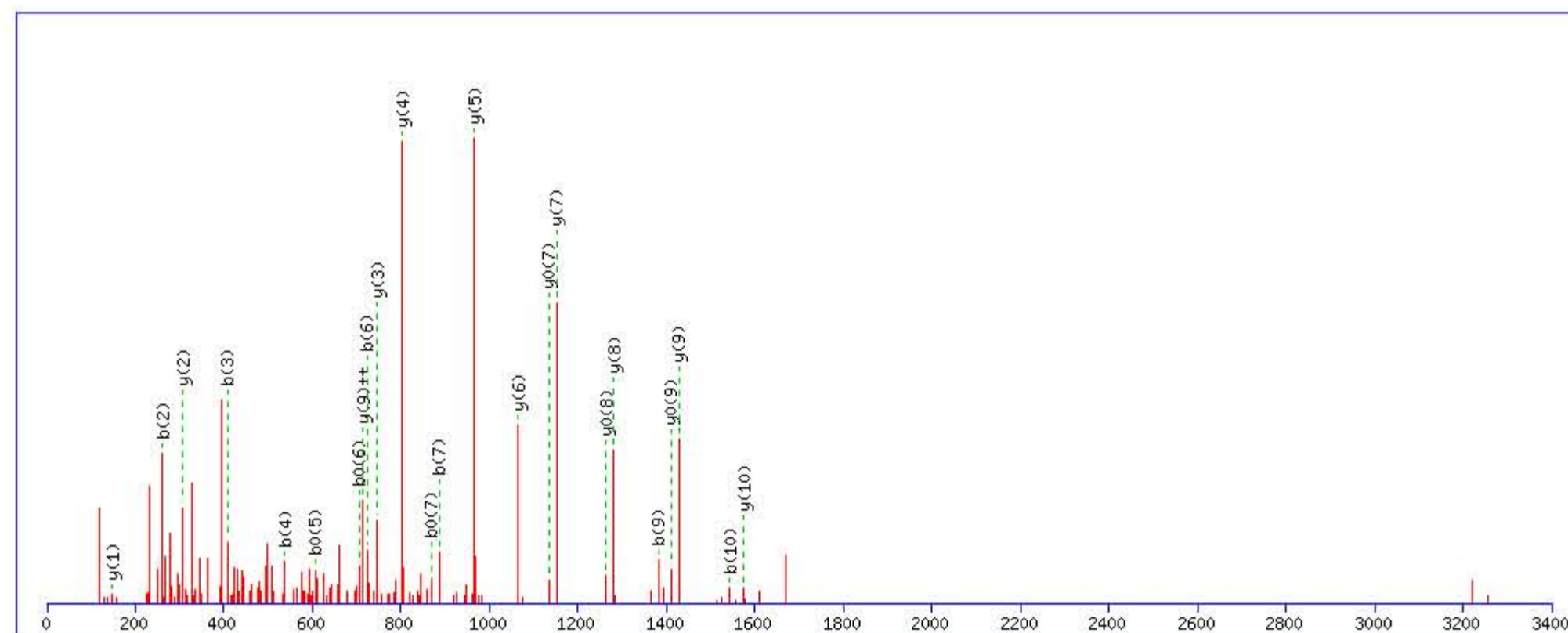
Title: Locus:1.1.1.1726.12 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1687.810226

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

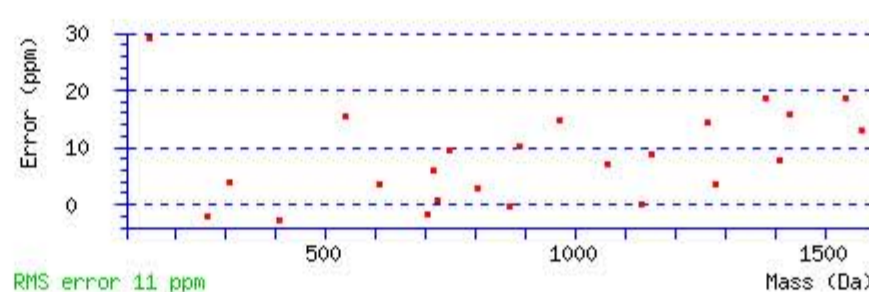
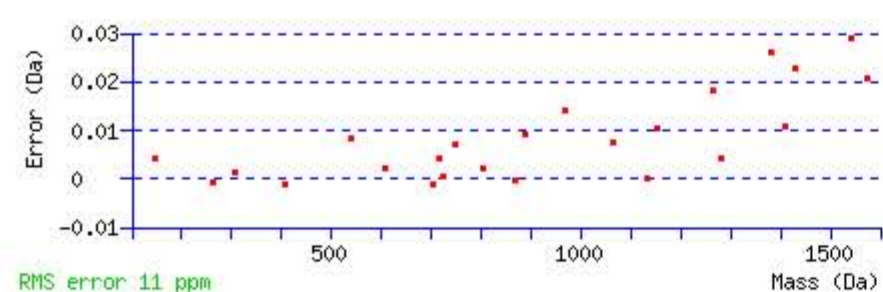
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 61 Expect: 6.3e-006

Matches : 24/86 fragment ions using 44 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							11
2	261.159754	131.083515					F	1575.733435	788.370356	1558.706886	779.857081	1557.722870	779.365073	10
3	408.228168	204.617722					F	1428.665021	714.836149	1411.638472	706.322874	1410.654456	705.830866	9
4	537.270761	269.139019			519.260196	260.133736	E	1281.596607	641.301942	1264.570058	632.788667	1263.586042	632.296659	8
5	624.302789	312.655033			606.292224	303.649750	S	1152.554014	576.780645	1135.527465	568.267371	1134.543449	567.775363	7
6	723.371203	362.189239			705.360638	353.183957	V	1065.521986	533.264631	1048.495437	524.751357			6
7	886.434532	443.720904			868.423967	434.715622	Y	966.453572	483.730424	949.427023	475.217150			5
8	943.455996	472.231636			925.445431	463.226354	G	803.390243	402.198760	786.363694	393.685485			4
9	1382.681322	691.844299	1365.654773	683.331025	1364.670757	682.839017	Q	746.368779	373.688028	729.342230	365.174753			3
10	1542.711971	771.859624	1525.685422	763.346349	1524.701406	762.854341	C	307.143453	154.075365	290.116904	145.562090			2
11							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **IFFESVYGQCK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
61.0	1687.810226	0.011082	<a href="#">IFFESVYGQCK</a>
5.5	1687.831345	-0.010037	<a href="#">MIFSSPACLTASFLK</a>

# MASCOT Search Results

## Peptide View

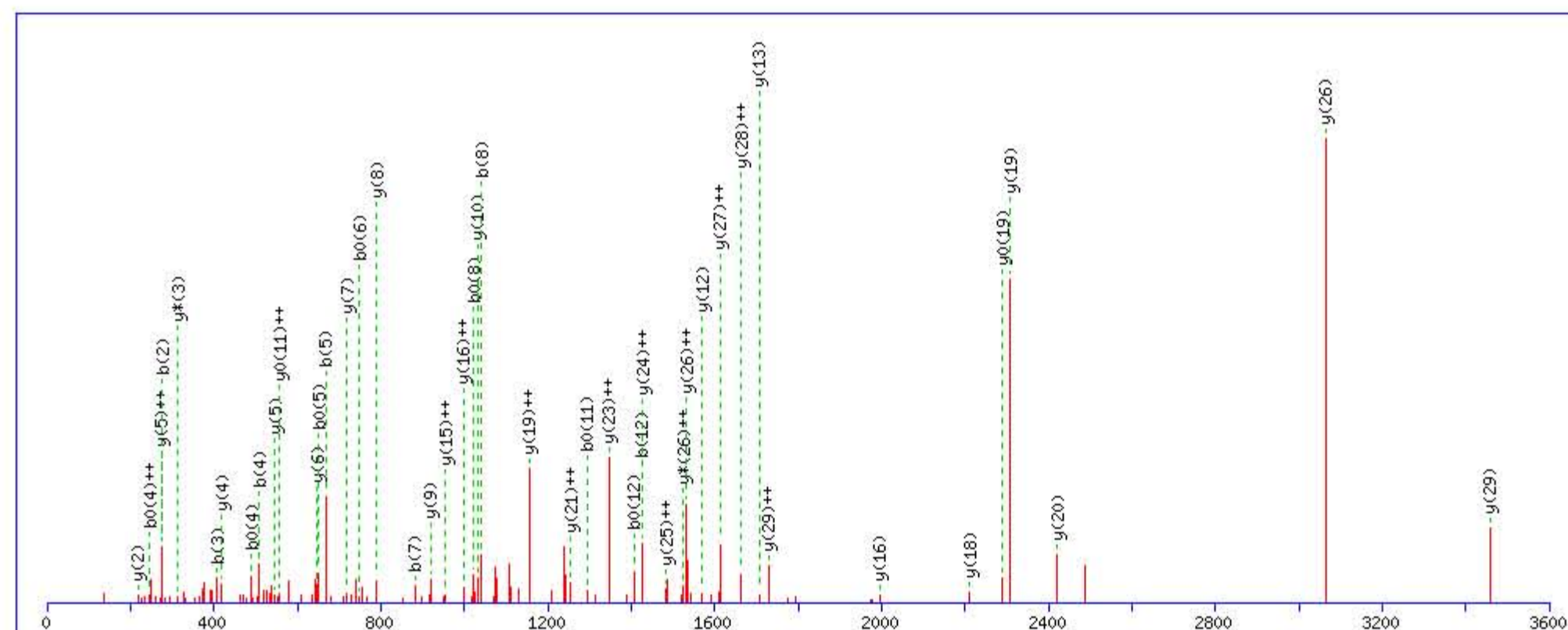
MS/MS Fragmentation of **IYMTCPDCPSSIPTDSSNHQVLEAATESLAK**  
 Found in **FETUB\_HUMAN**, Fetuin-B OS=Homo sapiens GN=FETUB PE=1 SV=2

Match to Query 61081: 3732.757482 from(1245.259770,3+) rtinseconds(2329) index(62341)  
 Title: Locus:1.1.1.1722.11 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

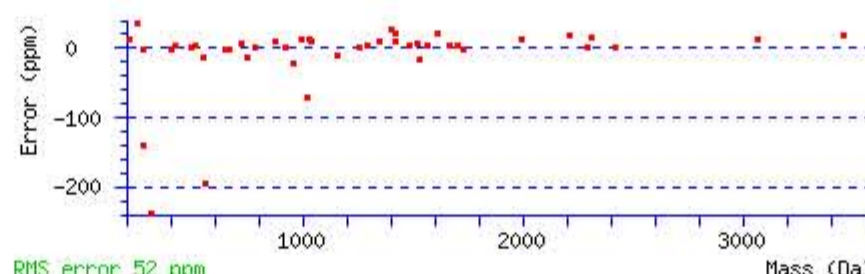
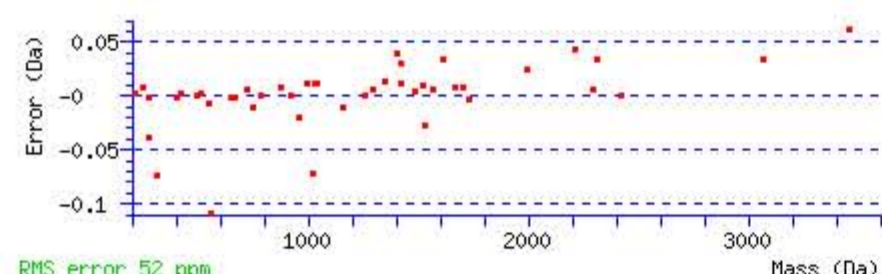
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3732.714340  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q20 : Biotin:Thermo-21345 (Q)  
 Ions Score: 62 Expect: 1.2e-005  
 Matches : 46/314 fragment ions using 128 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							31
2	<b>277.154669</b>	139.080973					Y	3620.637570	1810.822423	3603.611021	1802.309149	3602.627005	1801.817141	30
3	<b>408.195154</b>	204.601215					M	<b>3457.574241</b>	<b>1729.290759</b>	3440.547692	1720.777484	3439.563676	1720.285476	29
4	<b>509.242833</b>	255.125055			491.232268	246.119772	T	3326.533756	<b>1663.770516</b>	3309.507207	1655.257242	3308.523191	1654.765234	28
5	<b>669.273482</b>	335.140379			651.262917	326.135097	C	3225.486077	<b>1613.246677</b>	3208.459528	1604.733402	3207.475512	1604.241394	27
6	766.326246	383.666761			<b>748.315681</b>	374.661479	P	<b>3065.455428</b>	<b>1533.231352</b>	3048.428879	<b>1524.718078</b>	3047.444863	1524.226070	26
7	<b>881.353189</b>	441.180233			863.342624	432.174950	D	2968.402664	<b>1484.704970</b>	2951.376115	1476.191696	2950.392099	1475.699688	25
8	<b>1041.383838</b>	521.195557			<b>1023.373273</b>	512.190274	C	2853.375721	<b>1427.191499</b>	2836.349172	1418.678224	2835.365156	1418.186216	24
9	1138.436602	569.721939			1120.426037	560.716657	P	2693.345072	<b>1347.176174</b>	2676.318523	1338.662900	2675.334507	1338.170892	23
10	1225.468630	613.237953			1207.458065	604.232671	S	2596.292308	1298.649792	2579.265759	1290.136518	2578.281743	1289.644510	22
11	1312.500658	656.753967			<b>1294.490093</b>	647.748685	S	2509.260280	<b>1255.133778</b>	2492.233731	1246.620504	2491.249715	1246.128496	21
12	<b>1425.584722</b>	713.295999			<b>1407.574157</b>	704.290717	I	<b>2422.228252</b>	1211.617764	2405.201703	1203.104490	2404.217687	1202.612482	20
13	1522.637486	761.822381			1504.626921	752.817099	P	<b>2309.144188</b>	<b>1155.075732</b>	2292.117639	1146.562458	<b>2291.133623</b>	1146.070450	19
14	1623.685165	812.346221			1605.674600	803.340938	T	<b>2212.091424</b>	1106.549350	2195.064875	1098.036076	2194.080859	1097.544068	18
15	1738.712108	869.859692			1720.701543	860.854410	D	2111.043745	1056.025511	2094.017196	1047.512236	2093.033180	1047.020228	17
16	1825.744136	913.375706			1807.733571	904.370424	S	<b>1996.016802</b>	<b>998.512039</b>	1978.990253	989.998765	1978.006237	989.506757	16
17	1912.776164	956.891720			1894.765599	947.886438	S	1908.984774	<b>954.996025</b>	1891.958225	946.482751	1890.974209	945.990743	15
18	2026.819091	1013.913184	2009.792542	1005.399909	2008.808526	1004.907901	N	1821.952746	911.480011	1804.926197	902.966737	1803.942181	902.474729	14
19	2163.878003	1082.442640	2146.851454	1073.929365	2145.867438	1073.437357	H	<b>1707.909819</b>	854.458548	1690.883270	845.945273	1689.899254	845.453265	13
20	2603.103329	1302.055303	2586.076780	1293.542028	2585.092764	1293.050020	Q	<b>1570.850907</b>	785.929092	1553.824358	777.415817	1552.840342	776.923809	12
21	2702.171743	1351.589510	2685.145194	1343.076235	2684.161178	1342.584227	V	1131.625581	566.316429	1114.599032	557.803154	1113.615016	<b>557.311146</b>	11
22	2815.255807	1408.131542	2798.229258	1399.618267	2797.245242	1399.126259	L	<b>1032.557167</b>	516.782222	1015.530618	508.268947	1014.546602	507.776939	10
23	2944.298400	1472.652838	2927.271851	1464.139564	2926.287835	1463.647556	E	<b>919.473103</b>	460.240190	902.446554	451.726915	901.462538	451.234907	9
24	3015.335514	1508.171395	2998.308965	1499.658121	2997.324949	1499.166113	A	<b>790.430510</b>	395.718893	773.403961	387.205619	772.419945	386.713611	8
25	3086.372628	1543.689952	3069.346079	1535.176678	3068.362063	1534.684670	A	<b>719.393396</b>	360.200336	702.366847	351.687062	701.382831	351.195054	7
26	3187.420307	1594.213792	3170.393758	1585.700517	3169.409742	1585.208509	T	<b>648.356282</b>	324.681779	631.329733	316.168505	630.345717	315.676497	6
27	3316.462900	1658.735088	3299.436351	1650.221814	3298.452335	1649.729806	E	<b>547.308603</b>	<b>274.157940</b>	530.282054	265.644665	529.298038	265.152657	5
28	3403.494928	1702.251102	3386.468379	1693.737828	3385.484363	1693.245820	S	<b>418.266010</b>	209.636643	401.239461	201.123369	400.255445	200.631361	4
29	3516.578992	1758.793134	3499.552443	1750.279860	3498.568427	1749.787852	L	331.233982	166.120629	<b>314.207433</b>	157.607355			3
30	3587.616106	1794.311691	3570.589557	1785.798417	3569.605541	1785.306409	A	<b>218.149918</b>	109.578597	201.123369	101.065323			2
31							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **IYMTCPDCPSSIPTDSSNHQVLEAATESLAK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
61.8	3732.714340	0.043142	<a href="#">IYMTCPDCPSSIPTDSSNHQVLEAATESLAK</a>

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



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **QLEQVIK**

Found in **FIBA\_HUMAN**, Fibrinogen alpha chain OS=Homo sapiens GN=FGA PE=1 SV=2

Match to Query 18647: 1238.703848 from(620.359200,2+) rtinseconds(1818) index(44868)

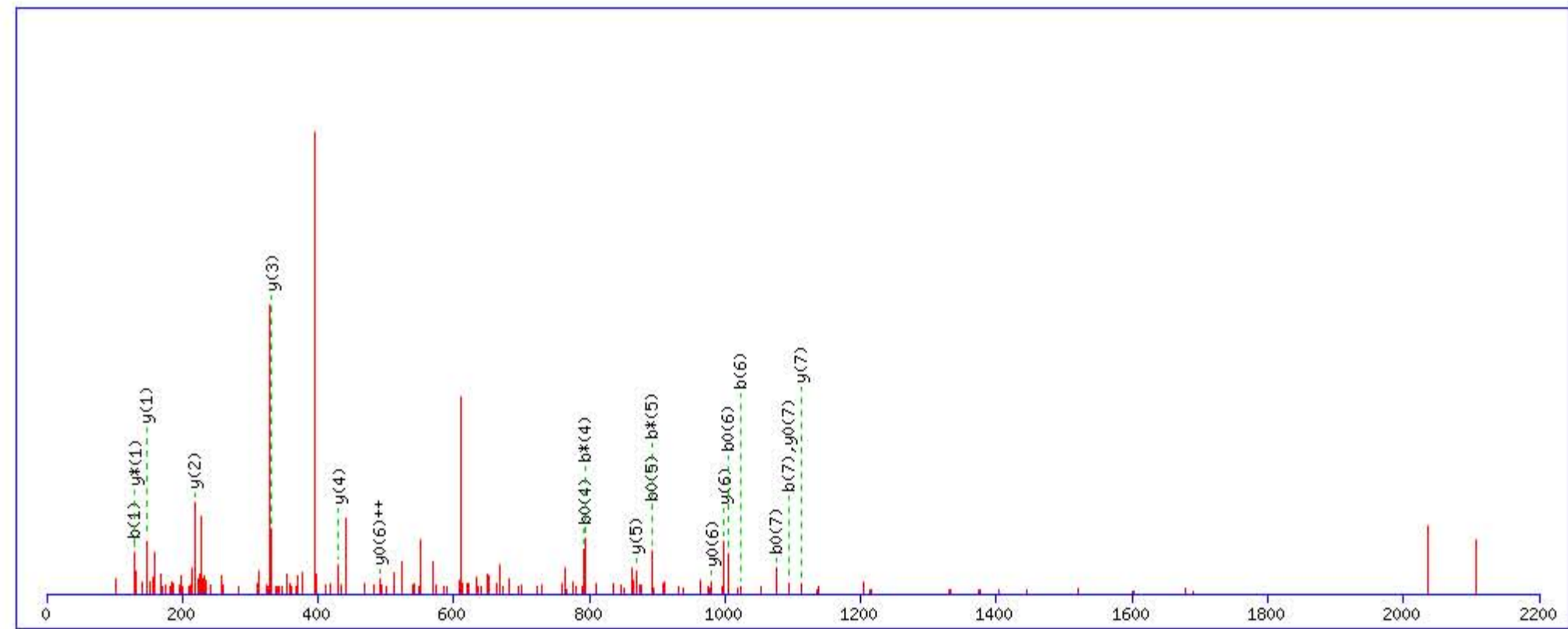
Title: Locus:1.1.1.3346.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1238.705658

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

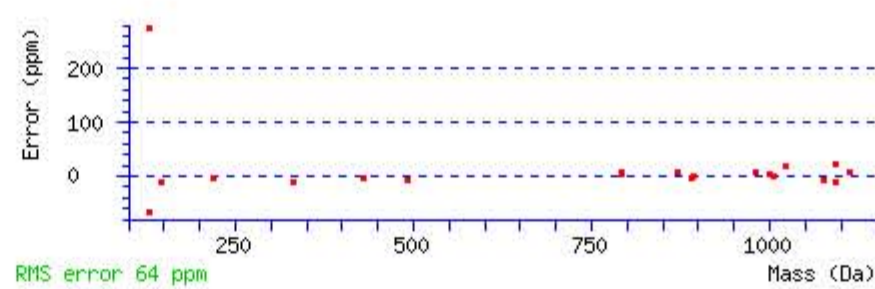
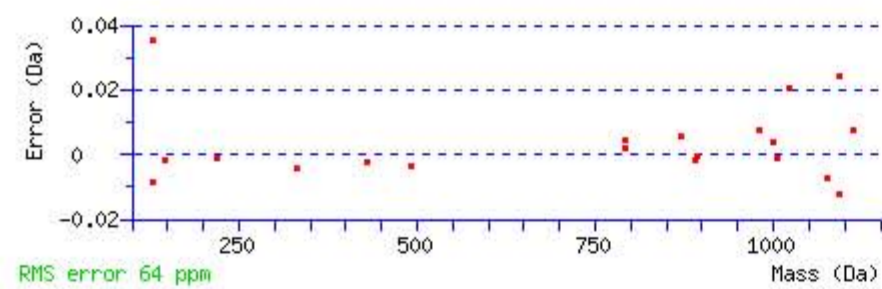
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 31 Expect: 0.013

Matches : 20/70 fragment ions using 48 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.065854	65.036565	112.039305	56.523291			Q							8
2	242.149918	121.578597	225.123369	113.065323			L	1111.654379	556.330828	1094.627830	547.817553	1093.643814	547.325545	7
3	371.192511	186.099894	354.165962	177.586619	353.181946	177.094611	E	998.570315	499.788796	981.543766	491.275521	980.559750	490.783513	6
4	810.417837	405.712557	793.391288	397.199282	792.407272	396.707274	Q	869.527722	435.267499	852.501173	426.754225			5
5	909.486251	455.246764	892.459702	446.733489	891.475686	446.241481	V	430.302396	215.654836	413.275847	207.141562			4
6	1022.570315	511.788796	1005.543766	503.275521	1004.559750	502.783513	I	331.233982	166.120629	314.207433	157.607355			3
7	1093.607429	547.307353	1076.580880	538.794078	1075.596864	538.302070	A	218.149918	109.578597	201.123369	101.065323			2
8							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **QLEQVIK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
30.9	1238.705658	-0.001810	<a href="#">QLEQVIK</a>
10.6	1238.687027	0.016821	<a href="#">KEETQPPVALK</a>
10.5	1238.705658	-0.001810	<a href="#">QLEQVIK</a>
6.1	1238.698273	0.005575	<a href="#">GHVTQLKESLK</a>
6.1	1238.698257	0.005591	<a href="#">IHADASSKVLAK</a>
5.7	1238.716904	-0.013056	<a href="#">DRVQVAIK</a>
4.8	1238.702301	0.001547	<a href="#">DVFKKGFSLAK</a>
3.4	1238.705658	-0.001810	<a href="#">QIAQEIVK</a>
1.8	1238.691040	0.012808	<a href="#">LYKEFIDLAK</a>
1.7	1238.716888	-0.013040	<a href="#">KRILCPLDPK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **NSLFEYQK**

Found in **FIBA\_HUMAN**, Fibrinogen alpha chain OS=Homo sapiens GN=FGA PE=1 SV=2

Match to Query 21083: 1338.664988 from(670.339770,2+) rtinseconds(2075) index(19449)

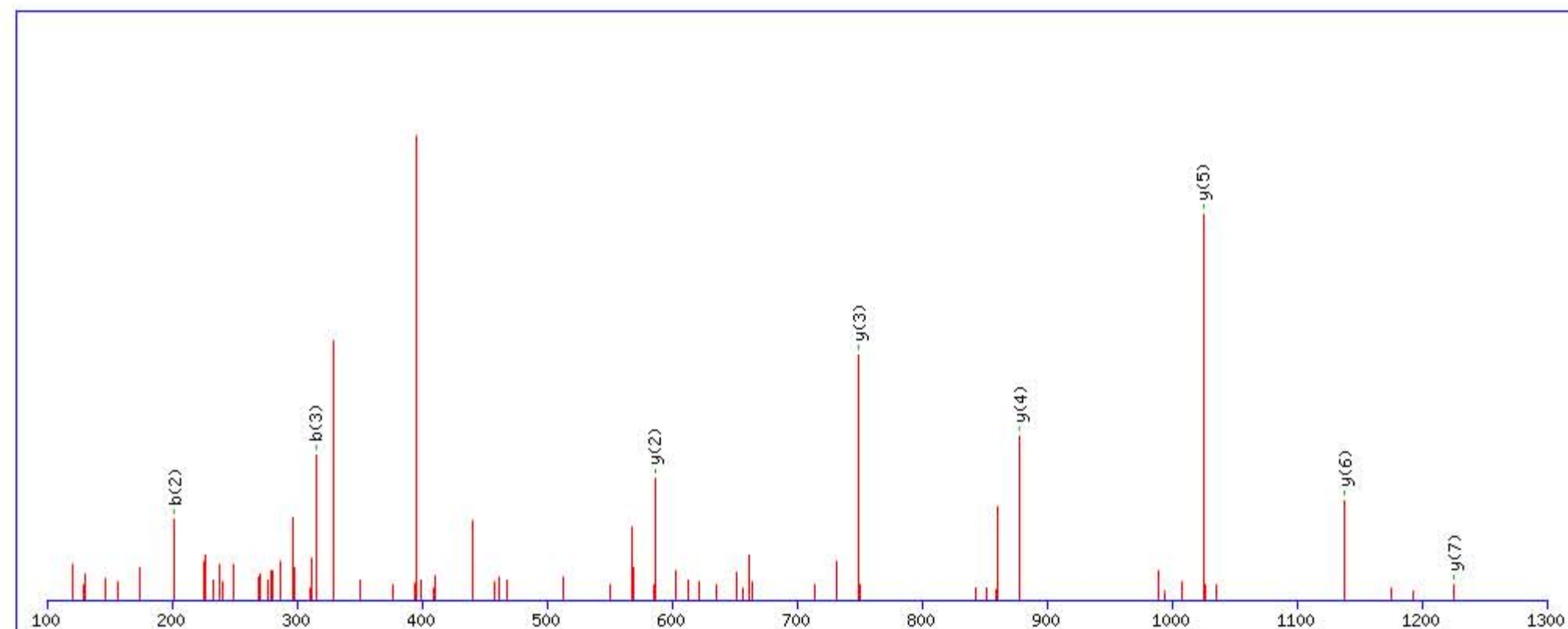
Title: Locus:1.1.1.3288.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1338.664185

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

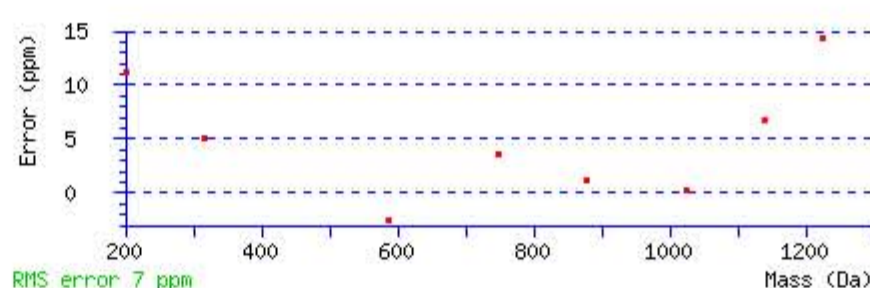
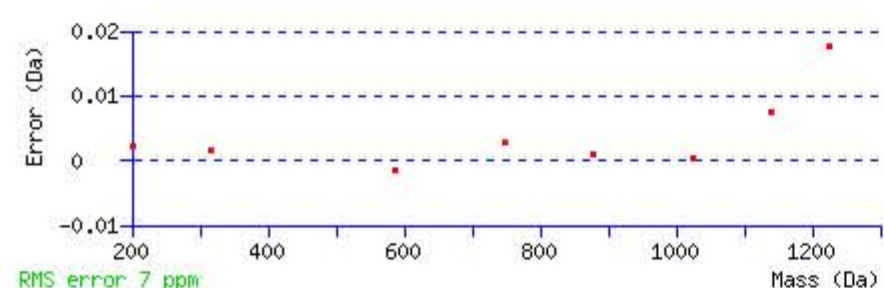
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 46 Expect: 0.00046

Matches : 8/76 fragment ions using 12 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							8
2	<b>202.082231</b>	101.544753	185.055682	93.031479	184.071666	92.539471	S	<b>1225.628558</b>	613.317917	1208.602009	604.804643	1207.617993	604.312635	7
3	<b>315.166295</b>	158.086785	298.139746	149.573511	297.155730	149.081503	L	<b>1138.596530</b>	569.801903	1121.569981	561.288629	1120.585965	560.796621	6
4	462.234709	231.620993	445.208160	223.107718	444.224144	222.615710	F	<b>1025.512466</b>	513.259871	1008.485917	504.746597	1007.501901	504.254589	5
5	591.277302	296.142289	574.250753	287.629015	573.266737	287.137007	E	<b>878.444052</b>	439.725664	861.417503	431.212390	860.433487	430.720382	4
6	754.340631	377.673954	737.314082	369.160679	736.330066	368.668671	Y	<b>749.401459</b>	375.204368	732.374910	366.691093			3
7	1193.565957	597.286617	1176.539408	588.773342	1175.555392	588.281334	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
8							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **NSLFEYQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
45.6	1338.664185	0.000803	<a href="#">NSLFEYQK</a>
14.8	1338.660172	0.004816	<a href="#">NSMFTAGKGVAEK</a>
8.0	1338.660172	0.004816	<a href="#">BTVYLQMBSLR</a>
3.4	1338.682632	-0.017644	<a href="#">NLSRMQSRFGK</a>
3.1	1338.666672	-0.001684	<a href="#">ESIKDLADYASK</a>
1.9	1338.644913	0.020075	<a href="#">NSVMSPSSSKSTK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **ALTDMPQMR**

Found in **FIBA\_HUMAN**, Fibrinogen alpha chain OS=Homo sapiens GN=FGA PE=1 SV=2

Match to Query 23135: 1388.651948 from(695.333250,2+) rtinseconds(1692) index(17044)

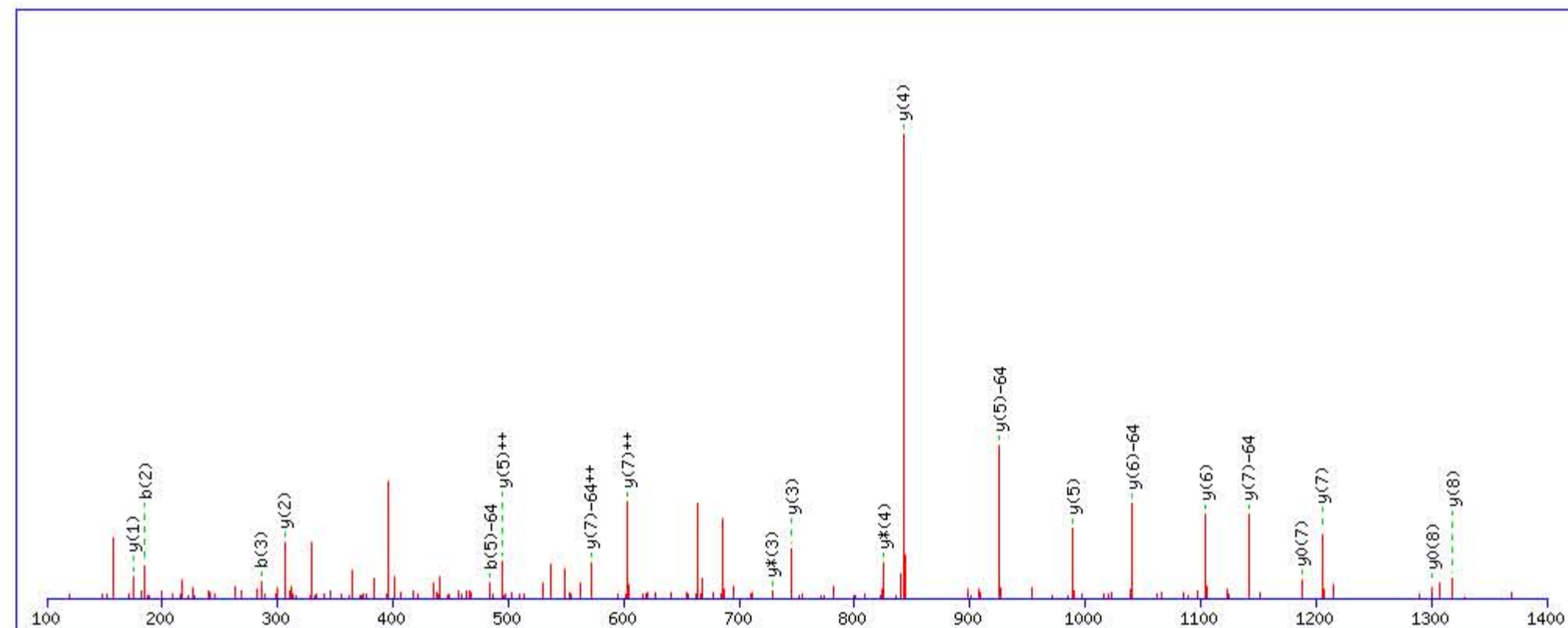
Title: Locus:1.1.1.3155.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1388.661438

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

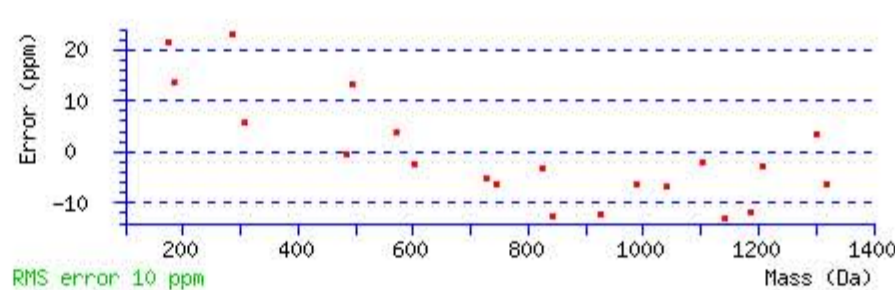
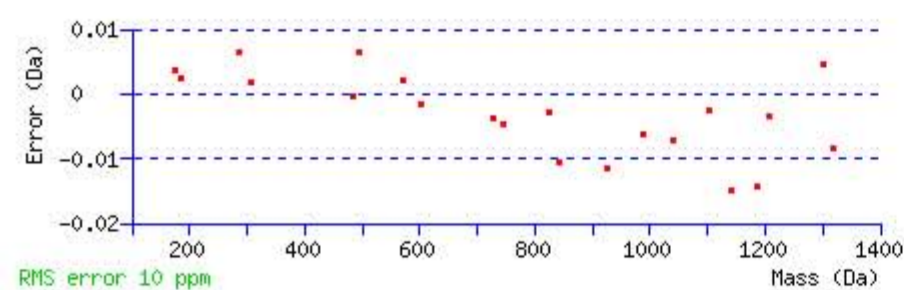
M5 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 53 Expect: 2.3e-005

Matches : 21/112 fragment ions using 38 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							9
2	<b>185.128454</b>	93.067865					L	<b>1318.631613</b>	659.819445	1301.605064	651.306170	<b>1300.621048</b>	650.814162	8
3	<b>286.176133</b>	143.591704			268.165568	134.586422	T	<b>1205.547549</b>	<b>603.277413</b>	1188.521000	594.764138	<b>1187.536984</b>	594.272130	7
4	401.203076	201.105176			383.192511	192.099894	D	<b>1104.499870</b>	552.753573	1087.473321	544.240298	1086.489305	543.748290	6
5	548.238476	274.622876			530.227911	265.617594	M	<b>989.472927</b>	<b>495.240102</b>	972.446378	486.726827			5
6	645.291240	323.149258			627.280675	314.143976	P	<b>842.437527</b>	421.722402	<b>825.410978</b>	413.209127			4
7	1084.516566	542.761921	1067.490017	534.248647	1066.506001	533.756639	Q	<b>745.384763</b>	373.196020	<b>728.358214</b>	364.682745			3
8	1215.557051	608.282164	1198.530502	599.768889	1197.546486	599.276881	M	<b>306.159437</b>	153.583356	289.132888	145.070082			2
9							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **ALTDMPQMR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
53.3	1388.661438	-0.009490	<a href="#">ALTDMPQMR</a>
18.8	1388.661438	-0.009490	<a href="#">ALTDMPQMR</a>
3.8	1388.660568	-0.008620	<a href="#">SEMTASPLVGPER</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QFTSSTSYNR**

Found in **FIBA\_HUMAN**, Fibrinogen alpha chain OS=Homo sapiens GN=FGA PE=1 SV=2

Match to Query 27122: 1500.695728 from(751.355140,2+) rtinseconds(1615) index(16623)

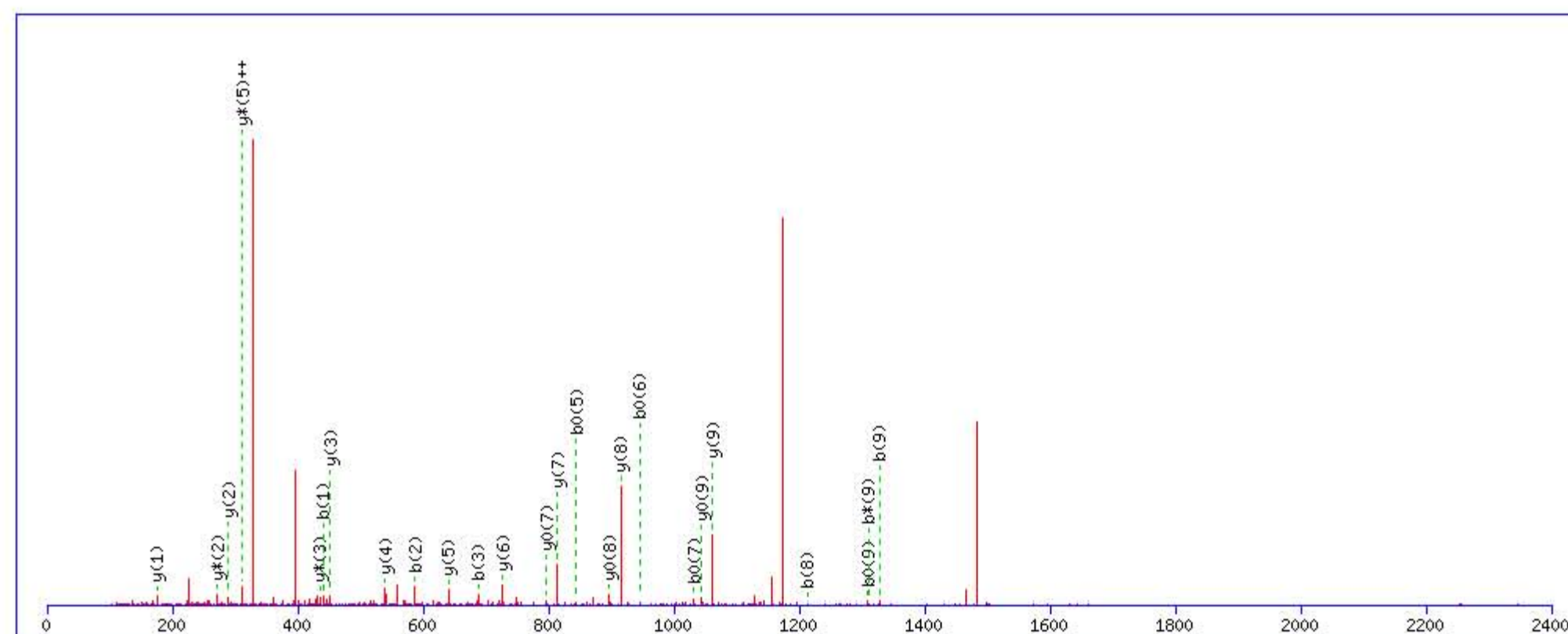
Title: Locus:1.1.1.3128.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1500.703110

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

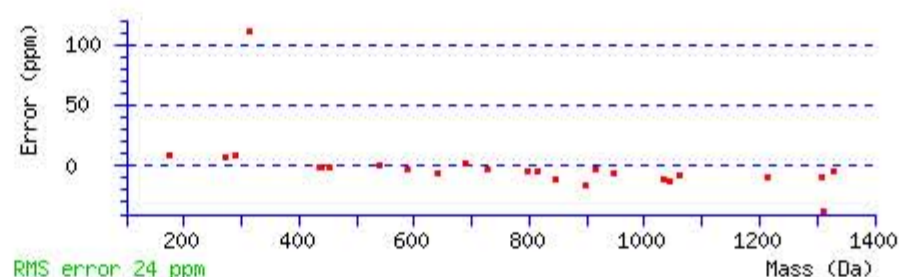
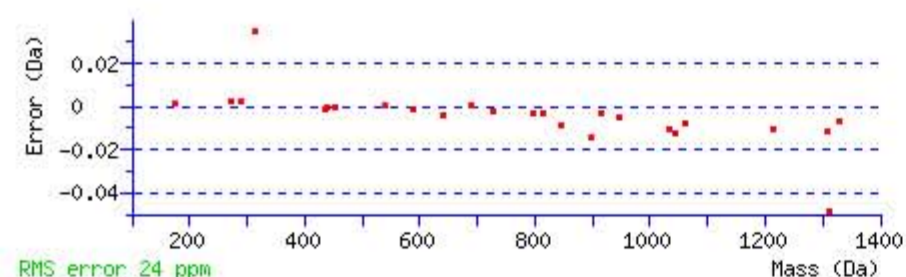
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 45 Expect: 0.00015

Matches : 25/98 fragment ions using 56 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							10
2	587.301016	294.154146	570.274467	285.640872			F	1062.485064	531.746170	1045.458515	523.232896	1044.474499	522.740887	9
3	688.348695	344.677986	671.322146	336.164711	670.338130	335.672703	T	915.416650	458.211963	898.390101	449.698689	897.406085	449.206681	8
4	775.380723	388.194000	758.354174	379.680725	757.370158	379.188717	S	814.368971	407.688124	797.342422	399.174849	796.358406	398.682841	7
5	862.412751	431.710014	845.386202	423.196739	844.402186	422.704731	S	727.336943	364.172110	710.310394	355.658835	709.326378	355.166827	6
6	963.460430	482.233853	946.433881	473.720578	945.449865	473.228570	T	640.304915	320.656096	623.278366	312.142821	622.294350	311.650813	5
7	1050.492458	525.749867	1033.465909	517.236593	1032.481893	516.744584	S	539.257236	270.132256	522.230687	261.618982	521.246671	261.126974	4
8	1213.555787	607.281532	1196.529238	598.768257	1195.545222	598.276249	Y	452.225208	226.616242	435.198659	218.102967			3
9	1327.598714	664.302995	1310.572165	655.789721	1309.588149	655.297712	N	289.161879	145.084577	272.135330	136.571303			2
10							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [QFTSSTSYNR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
44.6	1500.703110	-0.007382	<a href="#">QFTSSTSYNR</a>
3.5	1500.699768	-0.004040	<a href="#">AEAGSGGPGFTFTFR</a>
1.6	1500.703110	-0.007382	<a href="#">DAEGWETVQR</a>
0.1	1500.714340	-0.018612	<a href="#">QCGKAFNLSSSFR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **EVDLKDYEDQK**

Found in **FIBA\_HUMAN**, Fibrinogen alpha chain OS=Homo sapiens GN=FGA PE=1 SV=2

Match to Query 36166: 1819.868112 from(607.629980,3+) rtinseconds(1807) index(44805)

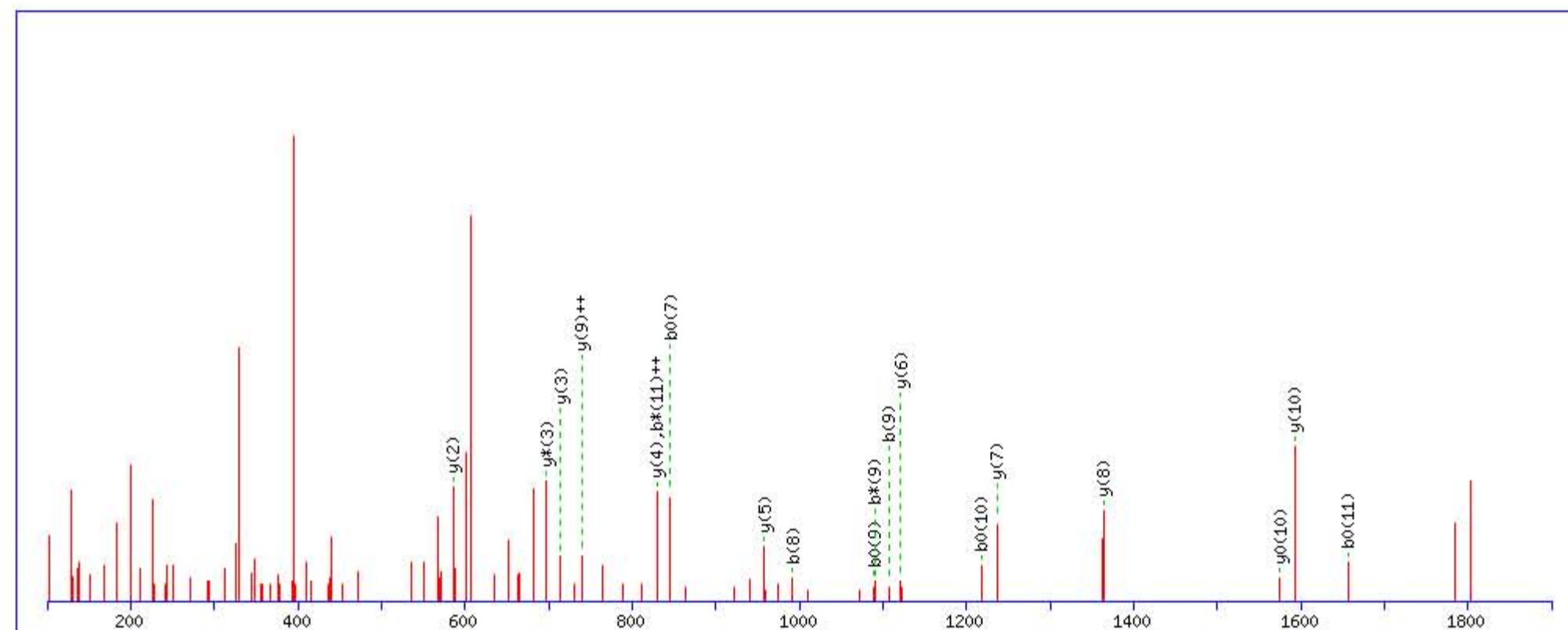
Title: Locus:1.1.1.3342.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1819.866196

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

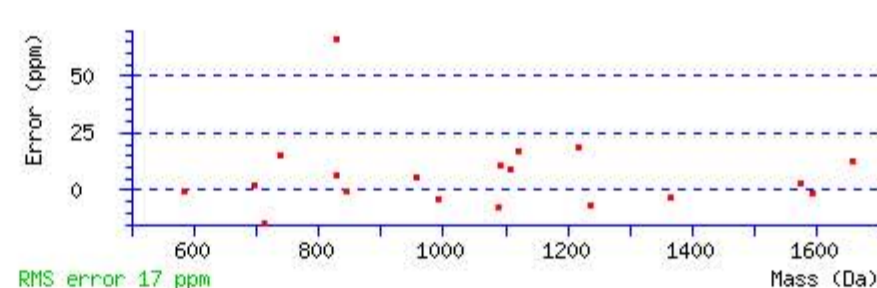
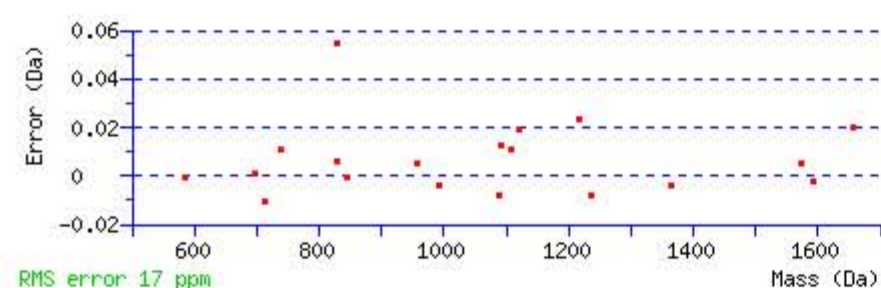
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 45 Expect: 0.00054

Matches : 19/118 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							12
2	229.118283	115.062780			211.107718	106.057497	V	1691.830900	846.419088	1674.804351	837.905814	1673.820335	837.413806	11
3	344.145226	172.576251			326.134661	163.570969	D	<b>1592.762486</b>	796.884881	1575.735937	788.371607	<b>1574.751921</b>	787.879599	10
4	457.229290	229.118283			439.218725	220.113001	L	1477.735543	<b>739.371410</b>	1460.708994	730.858135	1459.724978	730.366127	9
5	585.324253	293.165765	568.297704	284.652490	567.313688	284.160482	K	<b>1364.651479</b>	682.829378	1347.624930	674.316103	1346.640914	673.824095	8
6	700.351196	350.679236	683.324647	342.165962	682.340631	341.673954	D	<b>1236.556516</b>	618.781896	1219.529967	610.268622	1218.545951	609.776614	7
7	863.414525	432.210901	846.387976	423.697626	<b>845.403960</b>	423.205618	Y	<b>1121.529573</b>	561.268425	1104.503024	552.755150	1103.519008	552.263142	6
8	<b>992.457118</b>	496.732197	975.430569	488.218923	974.446553	487.726915	E	<b>958.466244</b>	479.736760	941.439695	471.223486	940.455679	470.731478	5
9	<b>1107.484061</b>	554.245669	<b>1090.457512</b>	545.732394	<b>1089.473496</b>	545.240386	D	<b>829.423651</b>	415.215464	812.397102	406.702189	811.413086	406.210181	4
10	1235.542639	618.274958	1218.516090	609.761683	<b>1217.532074</b>	609.269675	Q	<b>714.396708</b>	357.701992	<b>697.370159</b>	349.188718			3
11	1674.767965	837.887621	1657.741416	<b>829.374346</b>	<b>1656.757400</b>	828.882338	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
12							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EVDLKDYEDQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
45.4	1819.866196	0.001916	<a href="#">EVDLKDYEDQK</a>
32.5	1819.866196	0.001916	<a href="#">EVDLKDYEDQK</a>

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





# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **ISQLTR**

Found in **FIBB\_HUMAN**, Fibrinogen beta chain OS=Homo sapiens GN=FGB PE=1 SV=2

Match to Query 12329: 1027.581788 from(514.798170,2+) rtinseconds(1646) index(43843)

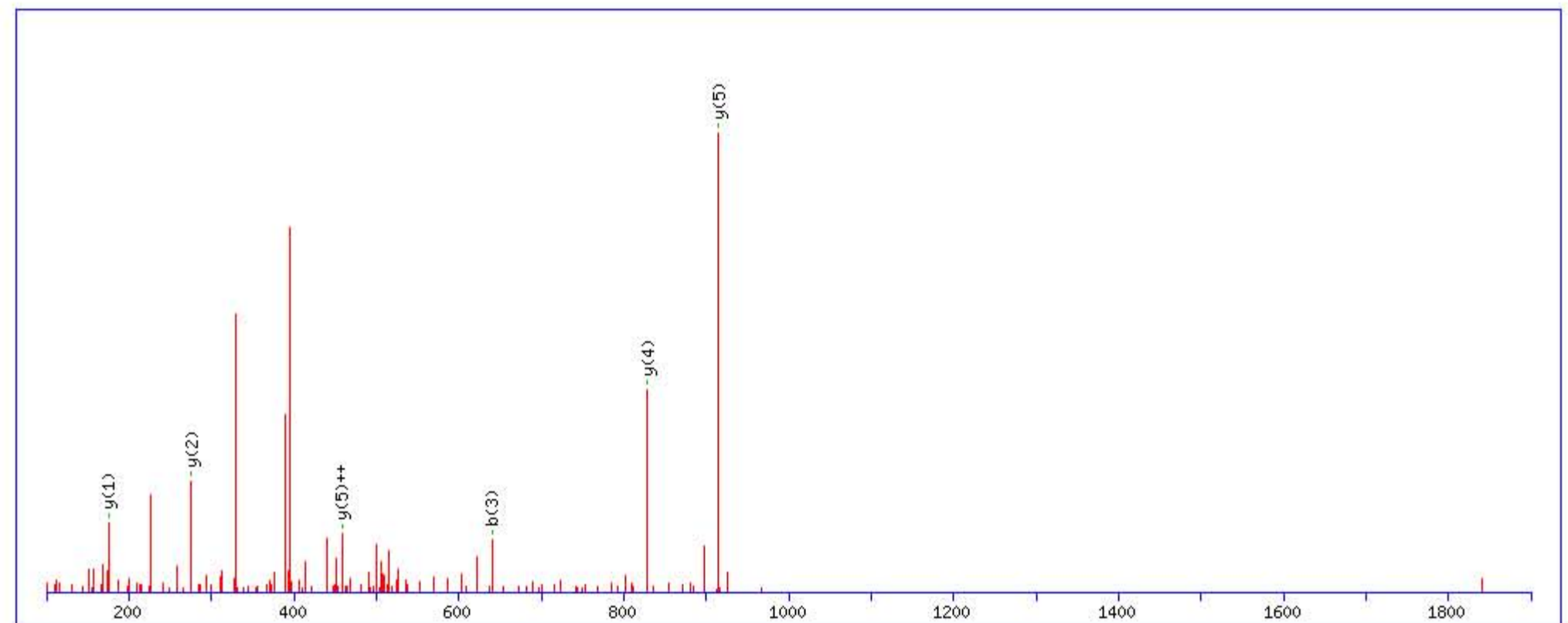
Title: Locus:1.1.1.3286.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1027.584824

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

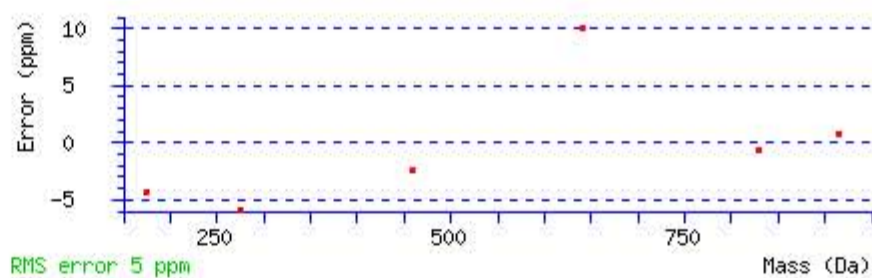
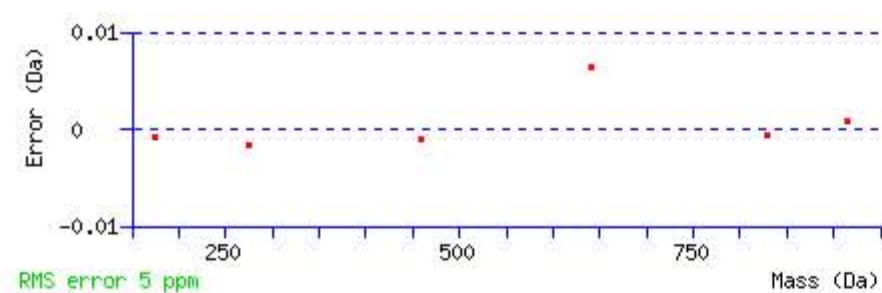
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.057

Matches : 6/52 fragment ions using 9 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							6
2	201.123368	101.065322			183.112803	92.060039	S	915.508049	458.257663	898.481500	449.744388	897.497484	449.252380	5
3	640.348694	320.677985	623.322145	312.164711	622.338129	311.672703	Q	828.476021	414.741649	811.449472	406.228374	810.465456	405.736366	4
4	753.432758	377.220017	736.406209	368.706743	735.422193	368.214735	L	389.250695	195.128986	372.224146	186.615711	371.240130	186.123703	3
5	854.480437	427.743857	837.453888	419.230582	836.469872	418.738574	T	276.166631	138.586954	259.140082	130.073679	258.156066	129.581671	2
6							R	175.118952	88.063114	158.092403	79.549840			1



NCBI BLAST search of **ISQLTR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
25.6	1027.584824	-0.003036	<a href="#">ISQLTR</a>
13.7	1027.573578	0.008210	<a href="#">ISQLEK</a>
12.1	1027.584824	-0.003036	<a href="#">ILSQTR</a>
10.7	1027.584839	-0.003051	<a href="#">LQTVTR</a>
10.7	1027.592682	-0.010894	<a href="#">LRLSWPTR</a>
9.2	1027.592667	-0.010879	<a href="#">IYQAHKR</a>
9.1	1027.584839	-0.003051	<a href="#">VTQLTR</a>
8.9	1027.573578	0.008210	<a href="#">ILQVPAMEK</a>
7.2	1027.584839	-0.003051	<a href="#">VTQILR</a>
6.1	1027.584839	-0.003051	<a href="#">TVLQTR</a>

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



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **YQISVNK**

Found in **FIBB\_HUMAN**, Fibrinogen beta chain OS=Homo sapiens GN=FGB PE=1 SV=2

Match to Query 16590: 1161.617408 from(581.815980,2+) rtinseconds(1709) index(17168)

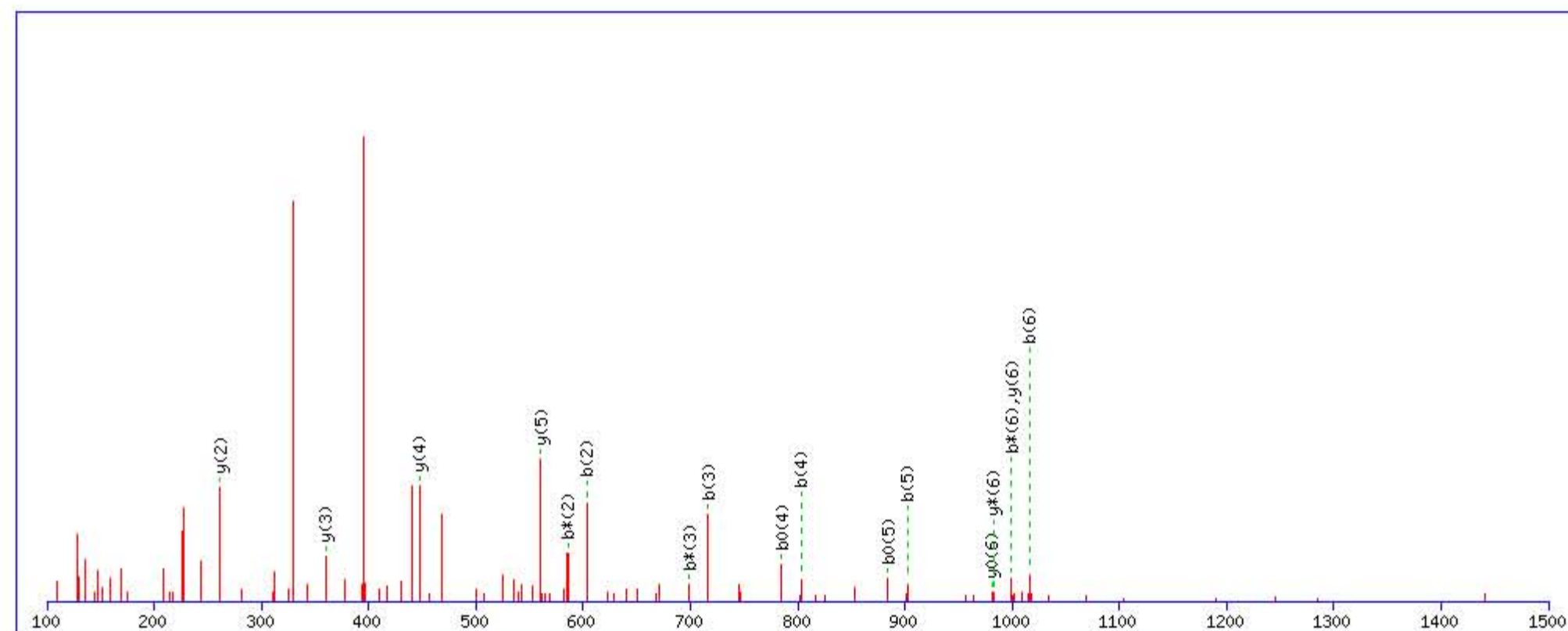
Title: Locus:1.1.1.3161.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1161.621597

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

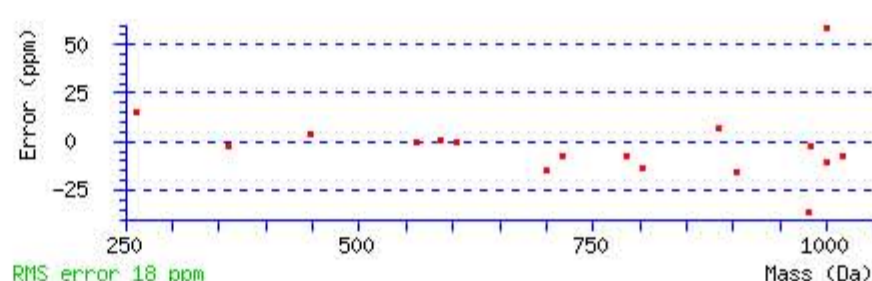
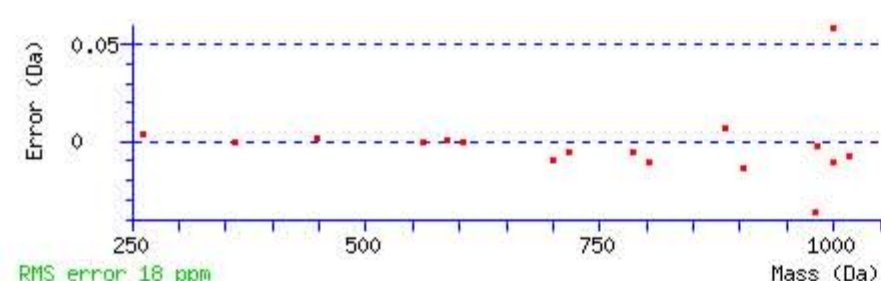
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 25 Expect: 0.059

Matches : 17/58 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							7
2	<b>603.295931</b>	302.151604	<b>586.269382</b>	293.638329			Q	<b>999.565563</b>	500.286419	<b>982.539014</b>	491.773145	<b>981.554998</b>	491.281137	6
3	<b>716.379995</b>	358.693636	<b>699.353446</b>	350.180361			I	<b>560.340237</b>	280.673756	543.313688	272.160482	542.329672	271.668474	5
4	<b>803.412023</b>	402.209650	786.385474	393.696375	<b>785.401458</b>	393.204367	S	<b>447.256173</b>	224.131724	430.229624	215.618450	429.245608	215.126442	4
5	<b>902.480437</b>	451.743857	885.453888	443.230582	<b>884.469872</b>	442.738574	V	<b>360.224145</b>	180.615710	343.197596	172.102436			3
6	<b>1016.523364</b>	508.765320	<b>999.496815</b>	500.252046	998.512799	499.760038	N	<b>261.155731</b>	131.081503	244.129182	122.568229			2
7							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **YQISVNK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
25.1	1161.621597	-0.004189	<a href="#">YQISVNK</a>
22.7	1161.629456	-0.012048	<a href="#">DFALRLWNK</a>
3.8	1161.611694	0.005714	<a href="#">WMIRNWIK</a>
2.4	1161.606323	0.011085	<a href="#">EQAIAMLKDK</a>
2.0	1161.628128	-0.010720	<a href="#">LESLDIPFTK</a>
0.9	1161.602982	0.014426	<a href="#">KNSVDPDFLK</a>
0.4	1161.614197	0.003211	<a href="#">YDISVKPANR</a>

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

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **QDGSVDFGR**

Found in **FIBB\_HUMAN**, Fibrinogen beta chain OS=Homo sapiens GN=FGB PE=1 SV=2

Match to Query 20193: 1290.607388 from(646.310970,2+) rtinseconds(1811) index(44828)

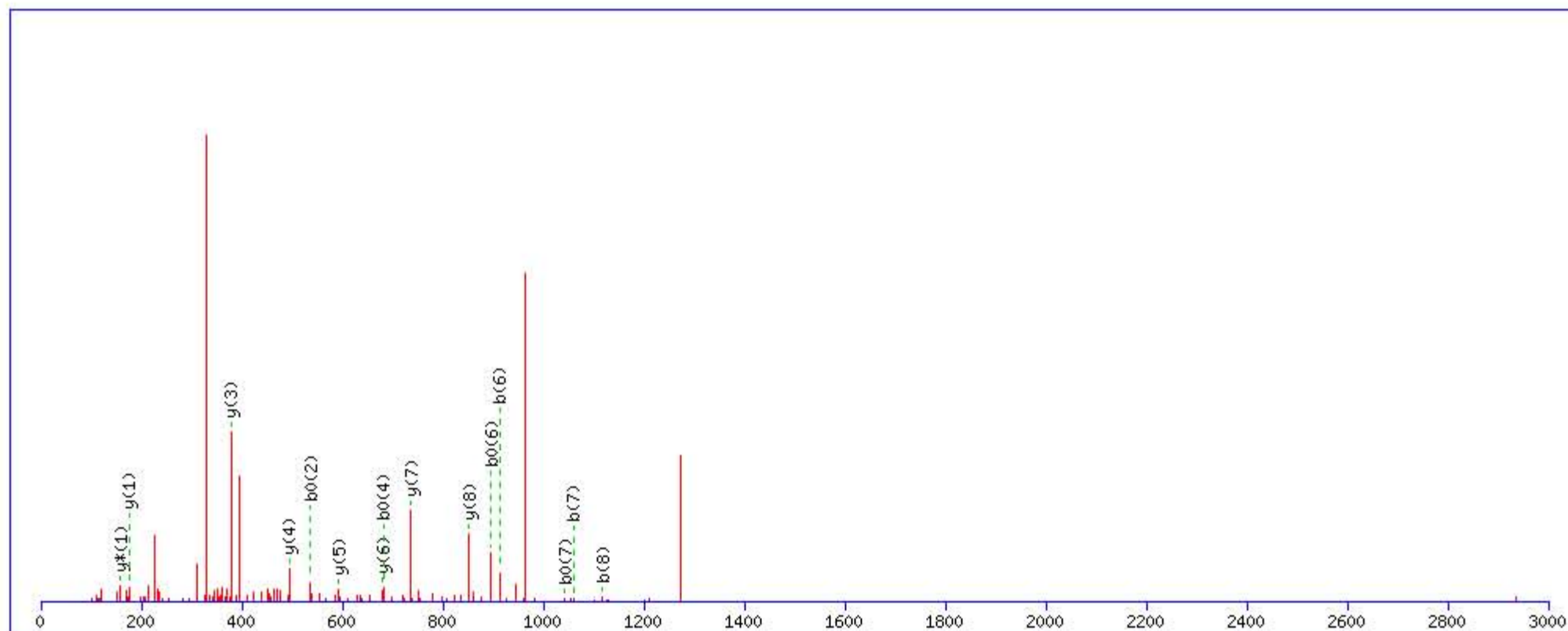
Title: Locus:1.1.1.3343.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1290.602692

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

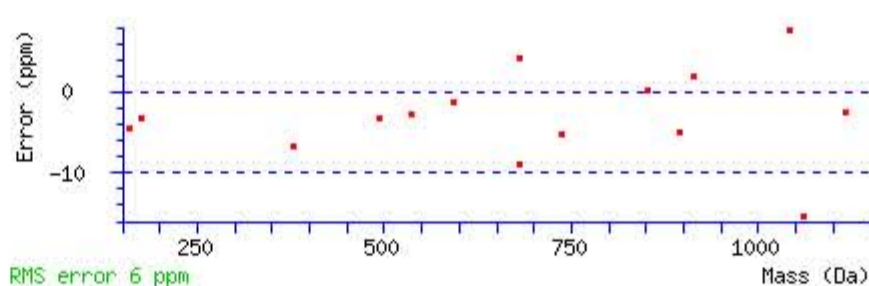
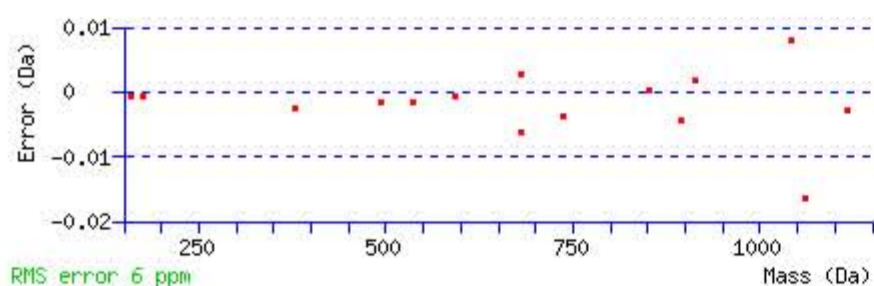
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 48 Expect: 0.00022

Matches : 15/88 fragment ions using 24 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							9
2	555.259545	278.133411	538.232996	269.620136	537.248980	269.128128	D	852.384622	426.695949	835.358073	418.182674	834.374057	417.690666	8
3	612.281009	306.644143	595.254460	298.130868	594.270444	297.638860	G	737.357679	369.182477	720.331130	360.669203	719.347114	360.177195	7
4	699.313037	350.160157	682.286488	341.646882	681.302472	341.154874	S	680.336215	340.671745	663.309666	332.158471	662.325650	331.666463	6
5	798.381451	399.694364	781.354902	391.181089	780.370886	390.689081	V	593.304187	297.155731	576.277638	288.642457	575.293622	288.150449	5
6	913.408394	457.207835	896.381845	448.694560	895.397829	448.202552	D	494.235773	247.621524	477.209224	239.108250	476.225208	238.616242	4
7	1060.476808	530.742042	1043.450259	522.228768	1042.466243	521.736759	F	379.208830	190.108053	362.182281	181.594778			3
8	1117.498272	559.252774	1100.471723	550.739499	1099.487707	550.247491	G	232.140416	116.573846	215.113867	108.060571			2
9							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **QDGSVDFGR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
48.0	1290.602692	0.004696	<a href="#">QDGSVDFGR</a>

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

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **IRPFFPQQ**

Found in **FIBB\_HUMAN**, Fibrinogen beta chain OS=Homo sapiens GN=FGB PE=1 SV=2

Match to Query 21183: 1342.721888 from(672.368220,2+) rtinseconds(2303) index(47856)

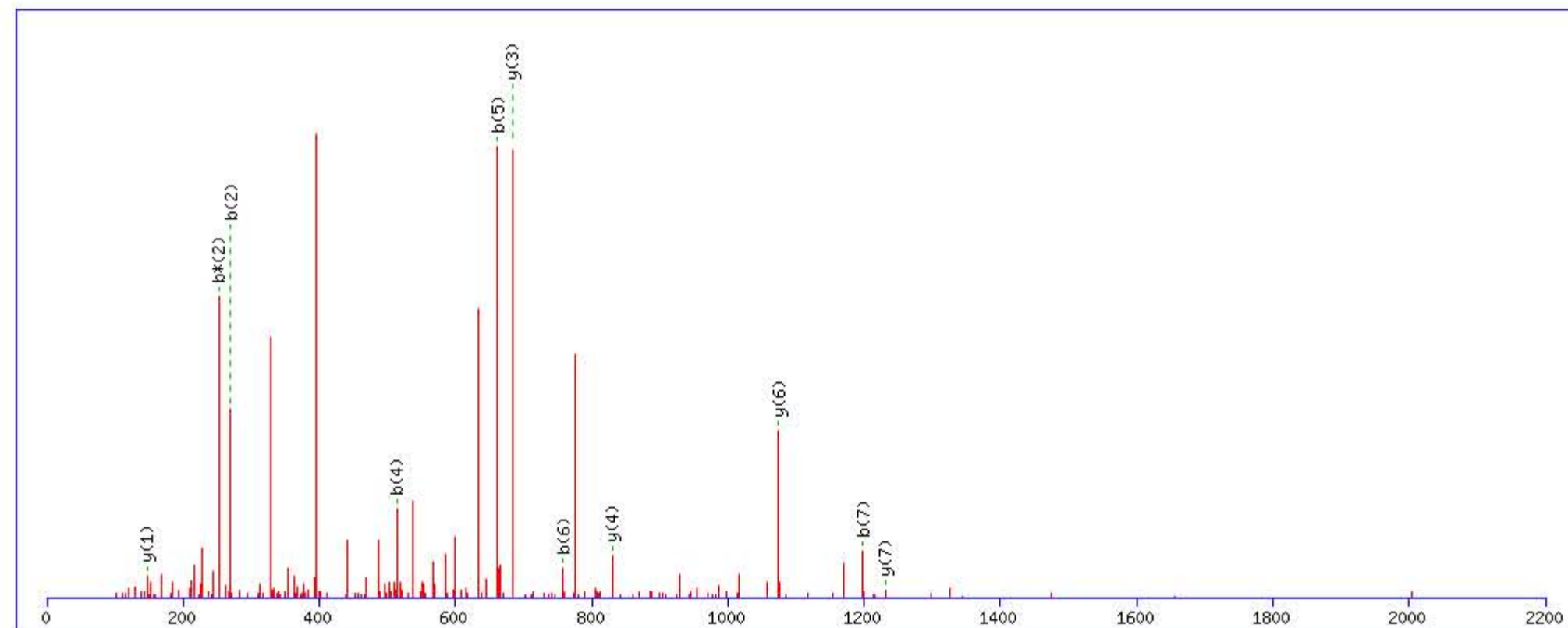
Title: Locus:1.1.1.3514.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1342.722000

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

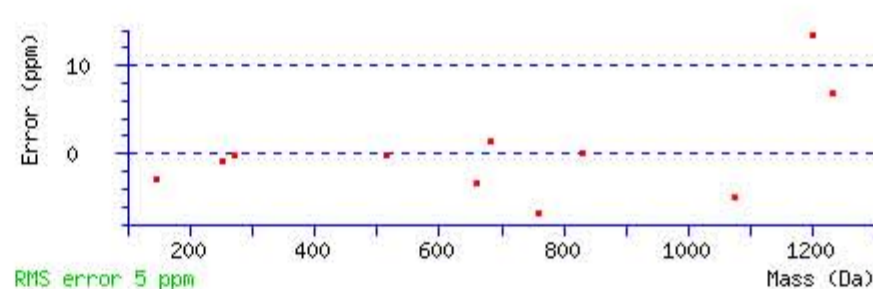
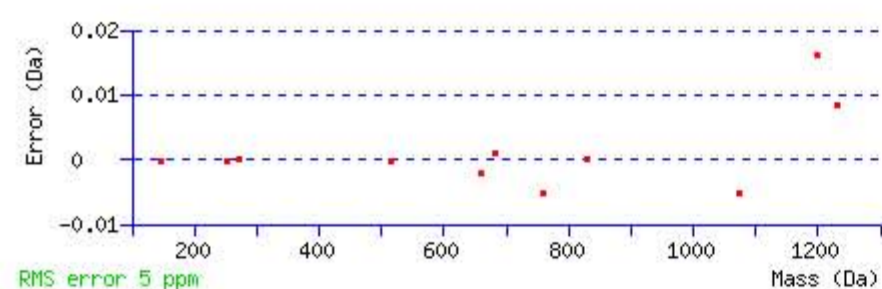
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 25 Expect: 0.033

Matches : 11/54 fragment ions using 25 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	114.091340	57.549308			I					8
2	<b>270.192451</b>	135.599864	<b>253.165902</b>	127.086589	R	<b>1230.645212</b>	615.826244	1213.618663	607.312970	7
3	367.245215	184.126245	350.218666	175.612971	P	<b>1074.544101</b>	537.775689	1057.517552	529.262414	6
4	<b>514.313629</b>	257.660453	497.287080	249.147178	F	977.491337	489.249307	960.464788	480.736032	5
5	<b>661.382043</b>	331.194660	644.355494	322.681385	F	<b>830.422923</b>	415.715100	813.396374	407.201825	4
6	<b>758.434807</b>	379.721042	741.408258	371.207767	P	<b>683.354509</b>	342.180893	666.327960	333.667618	3
7	<b>1197.660133</b>	599.333705	1180.633584	590.820430	Q	586.301745	293.654511	569.275196	285.141236	2
8					Q	<b>147.076419</b>	74.041848	130.049870	65.528573	1



NCBI BLAST search of [IRPFFPQQ](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
25.1	1342.722000	-0.000112	<a href="#">IRPFFPQQ</a>
15.2	1342.722000	-0.000112	<a href="#">IRPFFPQQ</a>
8.9	1342.716629	0.005259	<a href="#">LLSVTEDQK</a>
4.4	1342.710098	0.011790	<a href="#">VPMMSDPKAVLR</a>
4.1	1342.727844	-0.005956	<a href="#">LALEQQQLICK</a>
3.5	1342.727859	-0.005971	<a href="#">ATPTSTAKQK</a>
1.9	1342.729187	-0.007299	<a href="#">QPHRPIER</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AHYGGFTVQNEANK**

Found in **FIBB\_HUMAN**, Fibrinogen beta chain OS=Homo sapiens GN=FGB PE=1 SV=2

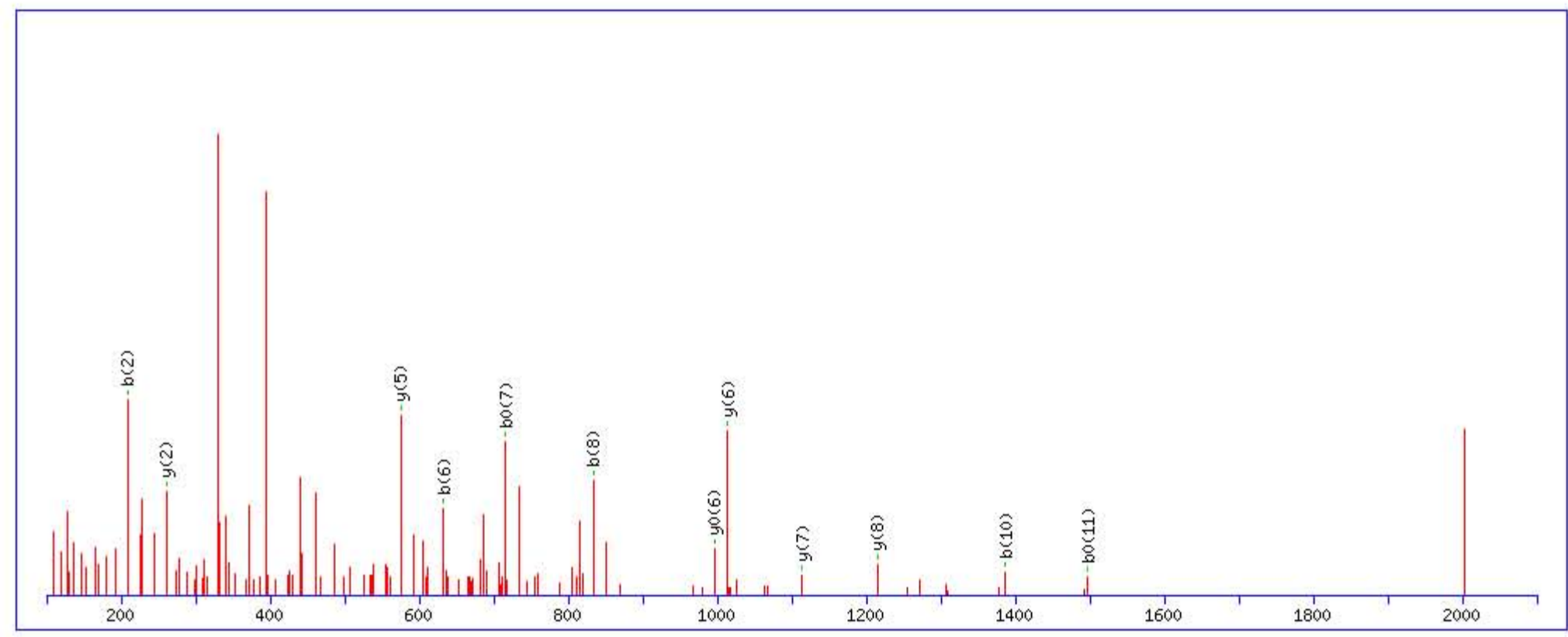
Match to Query 36541: 1845.880782 from(616.300870,3+) rtinseconds(1712) index(44196)  
 Title: Locus:1.1.1.3309.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1845.883194

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

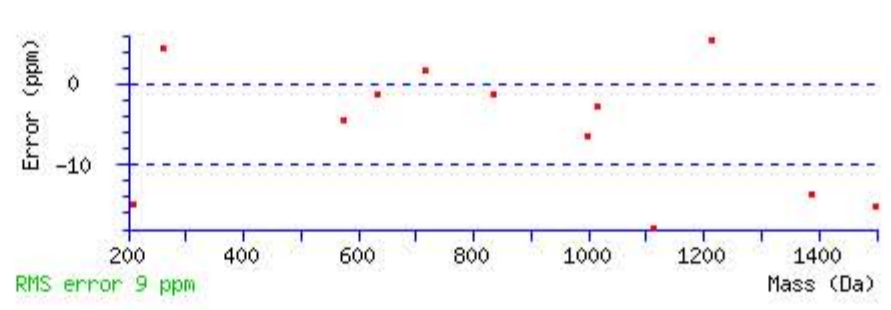
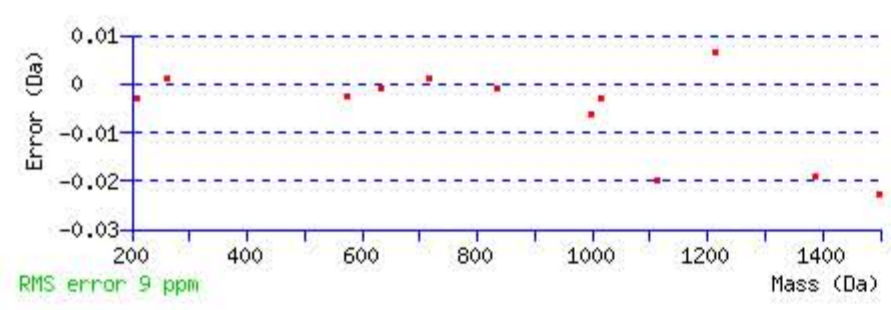
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 40 Expect: 0.0019

Matches : 12/122 fragment ions using 14 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							14
2	<b>209.103302</b>	105.055289					H	1775.853367	888.430321	1758.826818	879.917047	1757.842802	879.425039	13
3	372.166631	186.586953					Y	1638.794455	819.900866	1621.767906	811.387591	1620.783890	810.895583	12
4	429.188095	215.097685					G	1475.731126	738.369201	1458.704577	729.855927	1457.720561	729.363918	11
5	486.209559	243.608417					G	1418.709662	709.858469	1401.683113	701.345195	1400.699097	700.853186	10
6	<b>633.277973</b>	317.142625					F	1361.688198	681.347737	1344.661649	672.834463	1343.677633	672.342455	9
7	734.325652	367.666464			<b>716.315087</b>	358.661182	T	<b>1214.619784</b>	607.813530	1197.593235	599.300256	1196.609219	598.808247	8
8	<b>833.394066</b>	417.200671			815.383501	408.195388	V	<b>1113.572105</b>	557.289691	1096.545556	548.776416	1095.561540	548.284408	7
9	1272.619392	636.813334	1255.592843	628.300059	1254.608827	627.808051	Q	<b>1014.503691</b>	507.755484	997.477142	499.242209	<b>996.493126</b>	498.750201	6
10	<b>1386.662319</b>	693.834797	1369.635770	685.321523	1368.651754	684.829515	N	<b>575.278365</b>	288.142821	558.251816	279.629546	557.267800	279.137538	5
11	1515.704912	758.356094	1498.678363	749.842820	<b>1497.694347</b>	749.350811	E	461.235438	231.121357	444.208889	222.608083	443.224873	222.116075	4
12	1586.742026	793.874651	1569.715477	785.361377	1568.731461	784.869368	A	332.192845	166.600060	315.166296	158.086786			3
13	1700.784953	850.896114	1683.758404	842.382840	1682.774388	841.890832	N	<b>261.155731</b>	131.081503	244.129182	122.568229			2
14							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [AHYGGFTVQNEANK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
40.1	1845.883194	-0.002412	<a href="#">AHYGGFTVQNEANK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **HQLYIDETVNSNIPTNLR**

Found in **FIBB\_HUMAN**, Fibrinogen beta chain OS=Homo sapiens GN=FGB PE=1 SV=2

Match to Query 47071: 2437.244052 from(813.421960,3+) rtinseconds(2189) index(47197)

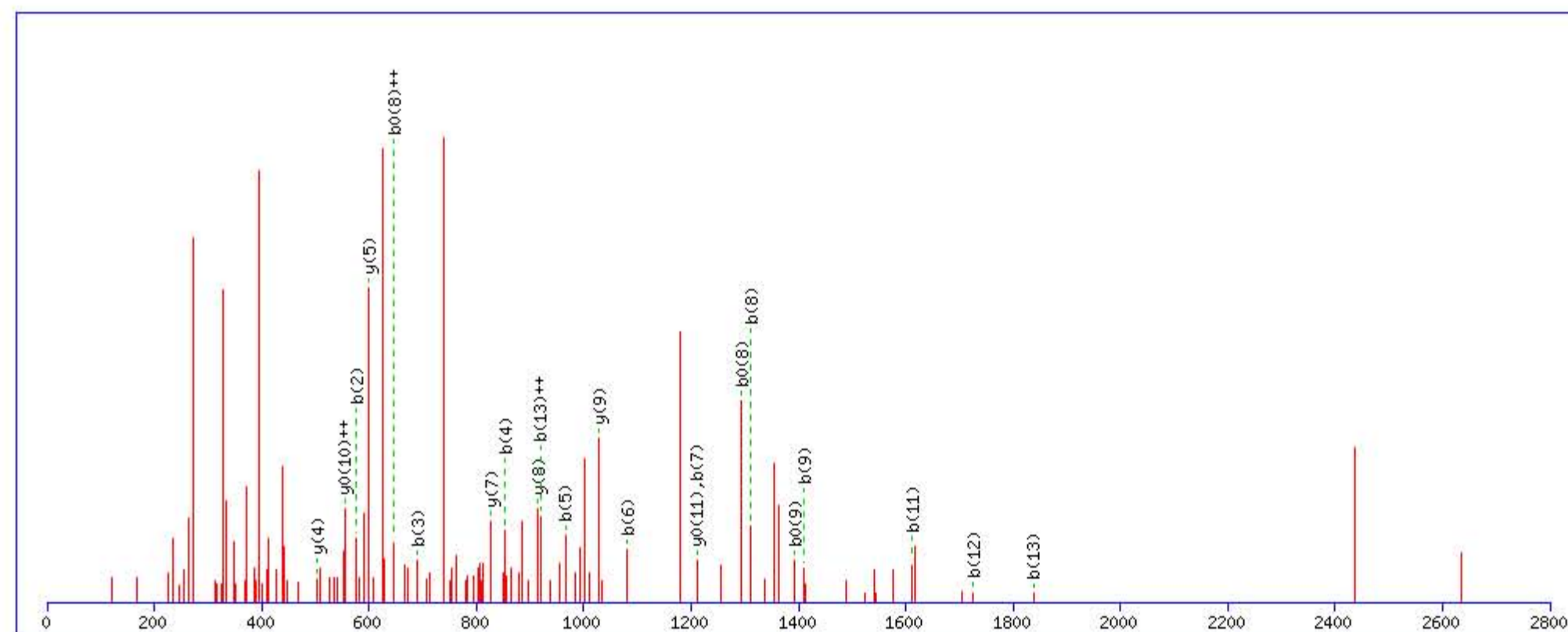
Title: Locus:1.1.1.3474.21 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2437.242355

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

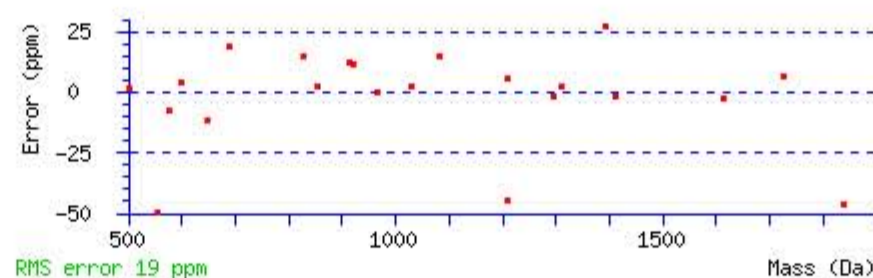
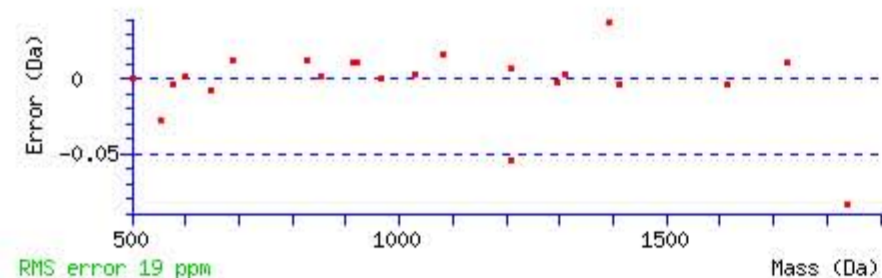
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.02

Matches : 22/186 fragment ions using 66 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							18
2	<b>577.291514</b>	289.149395	560.264965	280.636121			Q	2301.190744	1151.099010	2284.164195	1142.585735	2283.180179	1142.093727	17
3	<b>690.375578</b>	345.691427	673.349029	337.178153			L	1861.965418	931.486347	1844.938869	922.973073	1843.954853	922.481065	16
4	<b>853.438907</b>	427.223092	836.412358	418.709817			Y	1748.881354	874.944315	1731.854805	866.431041	1730.870789	865.939033	15
5	<b>966.522971</b>	483.765124	949.496422	475.251849			I	1585.818025	793.412651	1568.791476	784.899376	1567.807460	784.407368	14
6	<b>1081.549914</b>	541.278595	1064.523365	532.765321	1063.539349	532.273312	D	1472.733961	736.870619	1455.707412	728.357344	1454.723396	727.865336	13
7	<b>1210.592507</b>	605.799892	1193.565958	597.286617	1192.581942	596.794609	E	1357.707018	679.357147	1340.680469	670.843873	1339.696453	670.351865	12
8	<b>1311.640186</b>	656.323731	1294.613637	647.810457	<b>1293.629621</b>	<b>647.318449</b>	T	1228.664425	614.835851	1211.637876	606.322576	<b>1210.653860</b>	605.830568	11
9	<b>1410.708600</b>	705.857938	1393.682051	697.344664	<b>1392.698035</b>	696.852656	V	1127.616746	564.312011	1110.590197	555.798737	1109.606181	<b>555.306729</b>	10
10	1524.751527	762.879402	1507.724978	754.366127	1506.740962	753.874119	N	<b>1028.548332</b>	514.777804	1011.521783	506.264530	1010.537767	505.772522	9
11	<b>1611.783555</b>	806.395416	1594.757006	797.882141	1593.772990	797.390133	S	<b>914.505405</b>	457.756341	897.478856	449.243066	896.494840	448.751058	8
12	<b>1725.826482</b>	863.416879	1708.799933	854.903605	1707.815917	854.411597	N	<b>827.473377</b>	414.240327	810.446828	405.727052	809.462812	405.235044	7
13	<b>1838.910546</b>	<b>919.958911</b>	1821.883997	911.445637	1820.899981	910.953629	I	713.430450	357.218863	696.403901	348.705589	695.419885	348.213581	6
14	1935.963310	968.485293	1918.936761	959.972019	1917.952745	959.480011	P	<b>600.346386</b>	300.676831	583.319837	292.163557	582.335821	291.671549	5
15	2037.010989	1019.009133	2019.984440	1010.495858	2019.000424	1010.003850	T	<b>503.293622</b>	252.150449	486.267073	243.637175	485.283057	243.145167	4
16	2151.053916	1076.030596	2134.027367	1067.517321	2133.043351	1067.025313	N	402.245943	201.626610	385.219394	193.113335			3
17	2264.137980	1132.572628	2247.111431	1124.059353	2246.127415	1123.567345	L	288.203016	144.605146	271.176467	136.091872			2
18							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [HQLYIDETVNSNIPTNLR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
31.5	2437.242355	0.001697	<a href="#">HQLYIDETVNSNIPTNLR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **YLQEIYNSNNQK**

Found in **FIBG\_HUMAN**, Fibrinogen gamma chain OS=Homo sapiens GN=FGG PE=1 SV=3

Match to Query 36218: 1823.890962 from(608.970930,3+) rtinseconds(1875) index(45163)

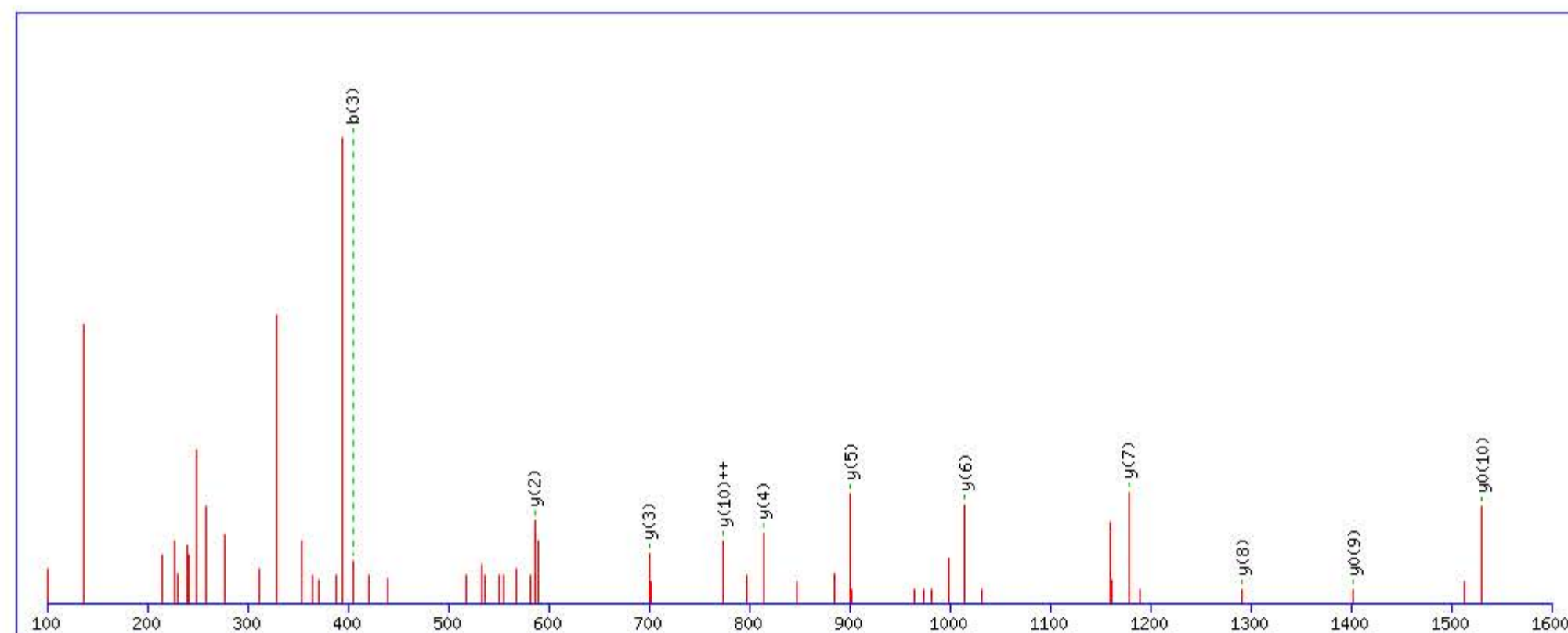
Title: Locus:1.1.1.3366.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1823.887573

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

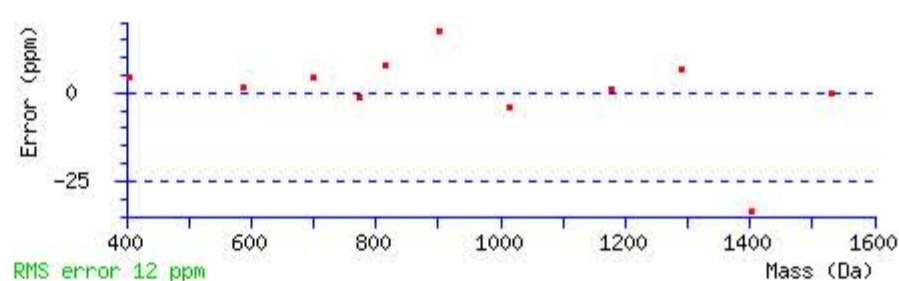
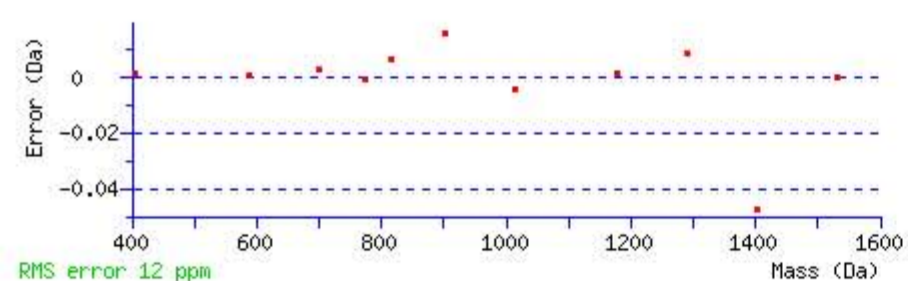
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 51 Expect: 0.00018

Matches : 11/114 fragment ions using 14 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							12
2	277.154669	139.080973					L	1661.831567	831.419422	1644.805018	822.906147	1643.821002	822.414139	11
3	<b>405.213247</b>	203.110262	388.186698	194.596987			Q	1548.747503	<b>774.877390</b>	1531.720954	766.364115	<b>1530.736938</b>	765.872107	10
4	534.255840	267.631558	517.229291	259.118284	516.245275	258.626276	E	1420.688925	710.848100	1403.662376	702.334826	<b>1402.678360</b>	701.842818	9
5	647.339904	324.173590	630.313355	315.660316	629.329339	315.168308	I	<b>1291.646332</b>	646.326804	1274.619783	637.813530	1273.635767	637.321522	8
6	810.403233	405.705255	793.376684	397.191980	792.392668	396.699972	Y	<b>1178.562268</b>	589.784772	1161.535719	581.271498	1160.551703	580.779489	7
7	924.446160	462.726718	907.419611	454.213443	906.435595	453.721435	N	<b>1015.498939</b>	508.253108	998.472390	499.739833	997.488374	499.247825	6
8	1011.478188	506.242732	994.451639	497.729457	993.467623	497.237449	S	<b>901.456012</b>	451.231644	884.429463	442.718370	883.445447	442.226362	5
9	1125.521115	563.264196	1108.494566	554.750921	1107.510550	554.258913	N	<b>814.423984</b>	407.715630	797.397435	399.202356			4
10	1239.564042	620.285659	1222.537493	611.772385	1221.553477	611.280376	N	<b>700.381057</b>	350.694167	683.354508	342.180892			3
11	1678.789368	839.898322	1661.762819	831.385048	1660.778803	830.893039	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
12							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [YLQEIYNSNNQK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
50.8	1823.887573	0.003389	<a href="#">YLQEIYNSNNQK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **LTIGEGQQHHLGGAK**

Found in **FIBG\_HUMAN**, Fibrinogen gamma chain OS=Homo sapiens GN=FGG PE=1 SV=3

Match to Query 36849: 1855.960428 from(928.987490,2+) rtinseconds(1562) index(16251)

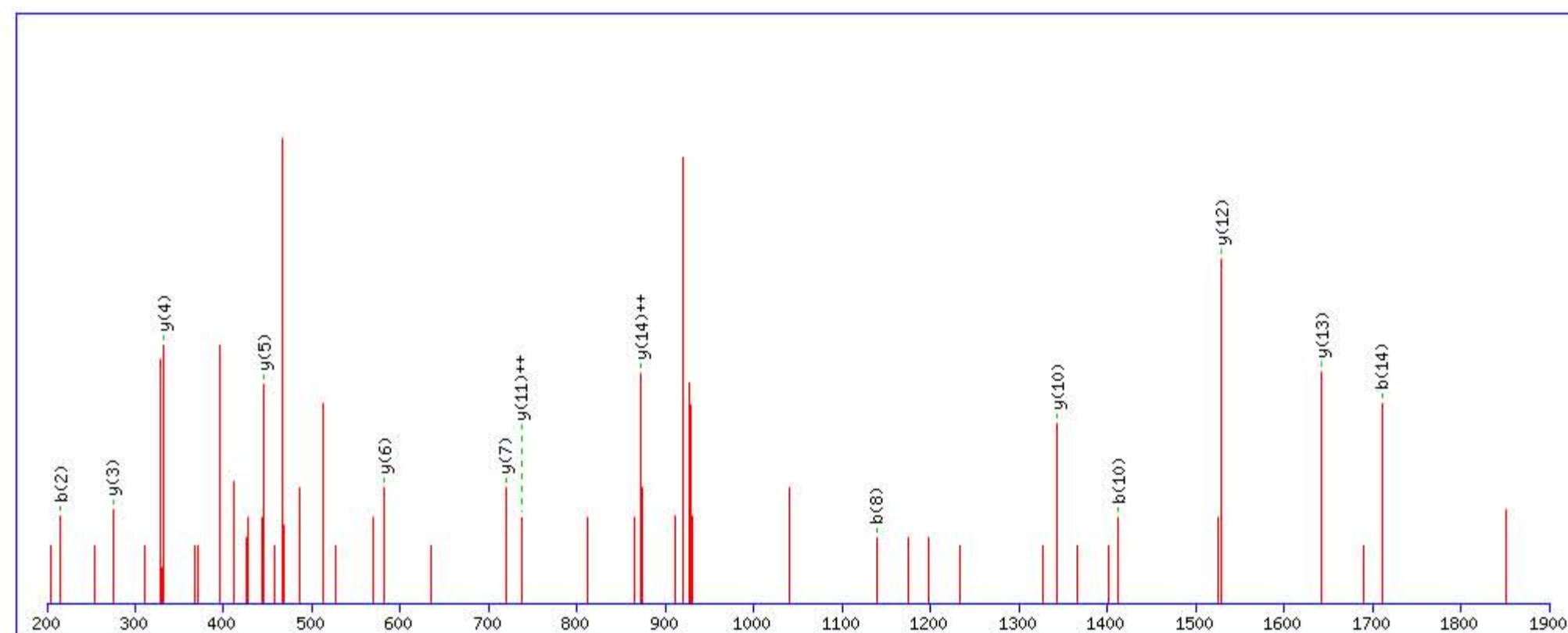
Title: Locus:1.1.1.3109.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1855.972687

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

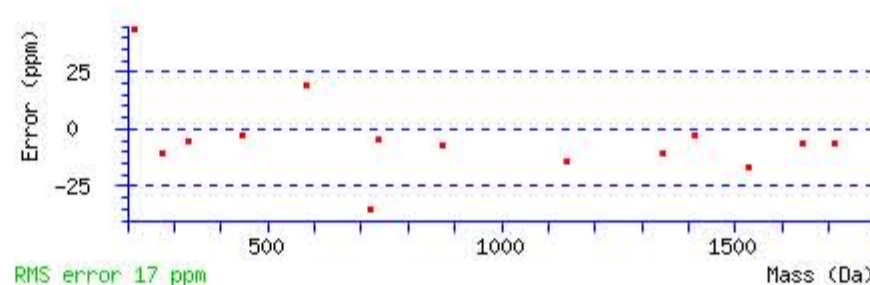
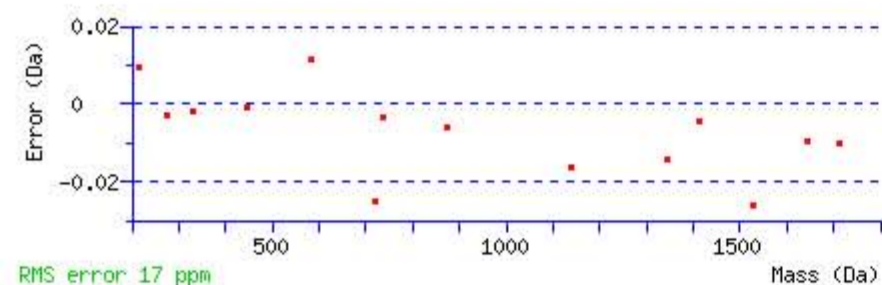
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 44 Expect: 0.00011

Matches : 14/134 fragment ions using 28 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							15
2	<b>215.139019</b>	108.073147			197.128454	99.067865	T	1743.895902	<b>872.451589</b>	1726.869353	863.938314	1725.885337	863.446306	14
3	328.223083	164.615179			310.212518	155.609897	I	<b>1642.848223</b>	821.927749	1625.821674	813.414475	1624.837658	812.922467	13
4	385.244547	193.125911			367.233982	184.120629	G	<b>1529.764159</b>	765.385717	1512.737610	756.872443	1511.753594	756.380435	12
5	514.287140	257.647208			496.276575	248.641926	E	1472.742695	<b>736.874985</b>	1455.716146	728.361711	1454.732130	727.869703	11
6	571.308604	286.157940			553.298039	277.152658	G	<b>1343.700102</b>	672.353689	1326.673553	663.840414			10
7	699.367182	350.187229	682.340633	341.673955	681.356617	341.181947	Q	1286.678638	643.842957	1269.652089	635.329682			9
8	<b>1138.592508</b>	569.799892	1121.565959	561.286618	1120.581943	560.794609	Q	1158.620060	579.813668	1141.593511	571.300393			8
9	1275.651420	638.329348	1258.624871	629.816074	1257.640855	629.324065	H	<b>719.394734</b>	360.201005	702.368185	351.687730			7
10	<b>1412.710332</b>	706.858804	1395.683783	698.345530	1394.699767	697.853521	H	<b>582.335822</b>	291.671549	565.309273	283.158274			6
11	1525.794396	763.400836	1508.767847	754.887561	1507.783831	754.395553	L	<b>445.276910</b>	223.142093	428.250361	214.628818			5
12	1582.815860	791.911568	1565.789311	783.398293	1564.805295	782.906285	G	<b>332.192846</b>	166.600061	315.166297	158.086786			4
13	1639.837324	820.422300	1622.810775	811.909025	1621.826759	811.417017	G	<b>275.171382</b>	138.089329	258.144833	129.576054			3
14	<b>1710.874438</b>	855.940857	1693.847889	847.427582	1692.863873	846.935574	A	218.149918	109.578597	201.123369	101.065322			2
15							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LTIGEGQQHHLGGAK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
43.8	1855.972687	-0.012259	<a href="#">LTIGEGQQHHLGGAK</a>
43.8	1855.972687	-0.012259	<a href="#">LTIGEGQQHHLGGAK</a>
1.4	1855.935806	0.024622	<a href="#">DSEIMQQKQK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LTIGEGQQHHLGGAK**

Found in **FIBG\_HUMAN**, Fibrinogen gamma chain OS=Homo sapiens GN=FGG PE=1 SV=3

Match to Query 36854: 1855.966708 from(928.990630,2+) rtinseconds(1588) index(2526)

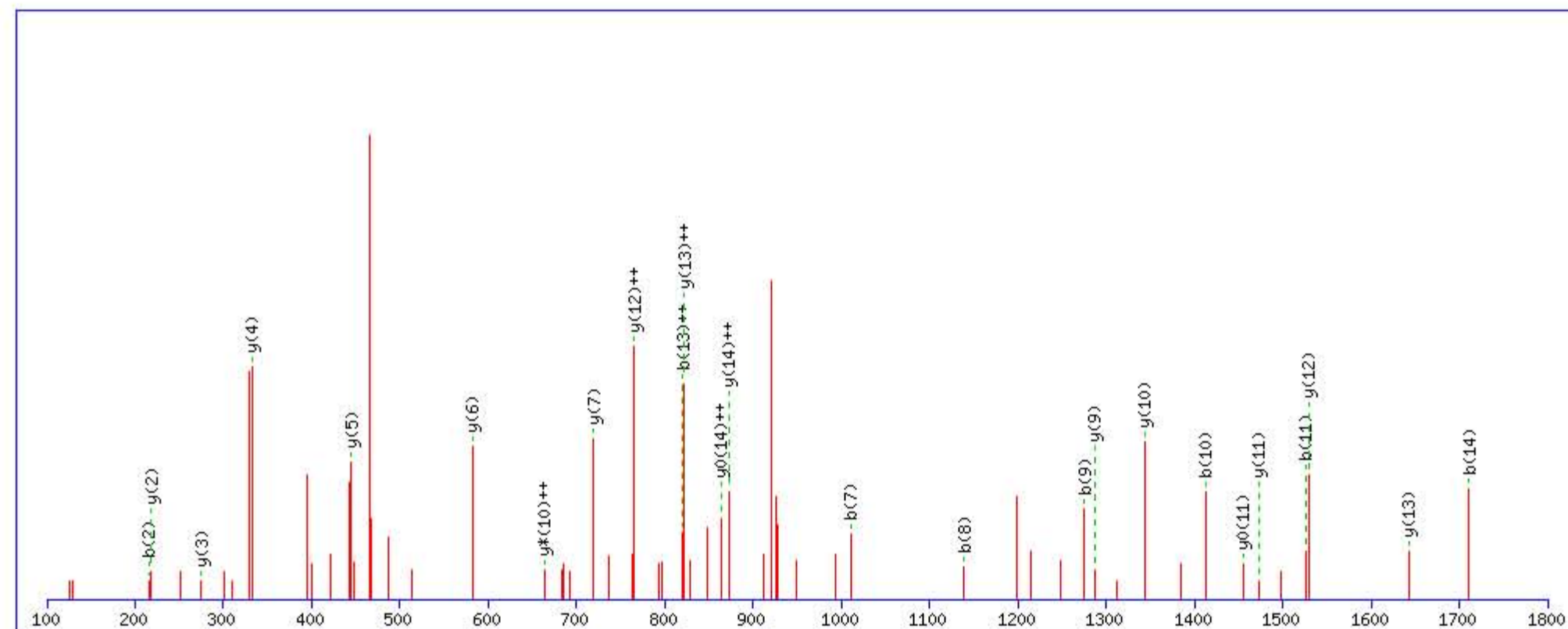
Title: Locus:1.1.1.3072.21 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1855.972687

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

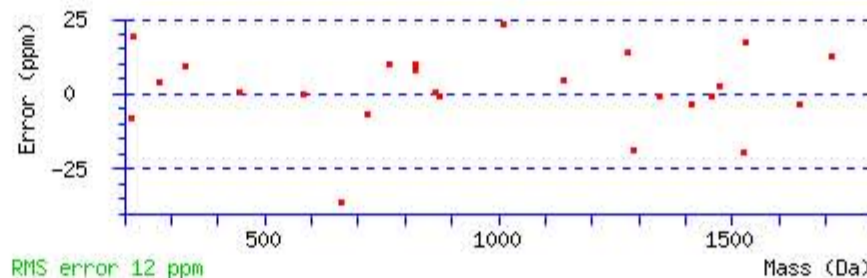
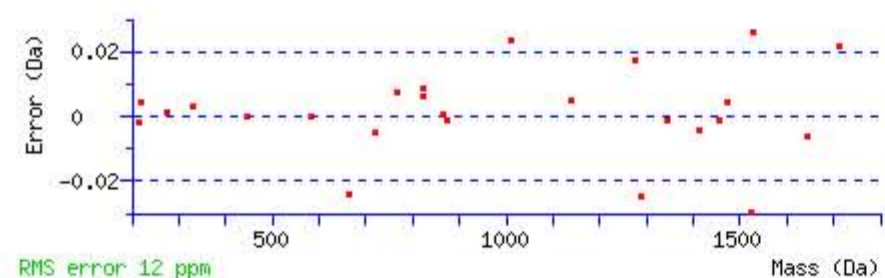
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 75 Expect: 2e-007

Matches : 25/134 fragment ions using 41 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							15
2	<b>215.139019</b>	108.073147			197.128454	99.067865	T	1743.895902	<b>872.451589</b>	1726.869353	863.938314	1725.885337	<b>863.446306</b>	14
3	328.223083	164.615179			310.212518	155.609897	I	<b>1642.848223</b>	<b>821.927749</b>	1625.821674	813.414475	1624.837658	812.922467	13
4	385.244547	193.125911			367.233982	184.120629	G	<b>1529.764159</b>	<b>765.385717</b>	1512.737610	756.872443	1511.753594	756.380435	12
5	514.287140	257.647208			496.276575	248.641926	E	<b>1472.742695</b>	736.874985	1455.716146	728.361711	<b>1454.732130</b>	727.869703	11
6	571.308604	286.157940			553.298039	277.152658	G	<b>1343.700102</b>	672.353689	1326.673553	<b>663.840414</b>			10
7	<b>1010.533930</b>	505.770603	993.507381	497.257329	992.523365	496.765321	Q	<b>1286.678638</b>	643.842957	1269.652089	635.329682			9
8	<b>1138.592508</b>	569.799892	1121.565959	561.286618	1120.581943	560.794609	Q	847.453312	424.230294	830.426763	415.717019			8
9	<b>1275.651420</b>	638.329348	1258.624871	629.816074	1257.640855	629.324065	H	<b>719.394734</b>	360.201005	702.368185	351.687730			7
10	<b>1412.710332</b>	706.858804	1395.683783	698.345530	1394.699767	697.853521	H	<b>582.335822</b>	291.671549	565.309273	283.158274			6
11	<b>1525.794396</b>	763.400836	1508.767847	754.887561	1507.783831	754.395553	L	<b>445.276910</b>	223.142093	428.250361	214.628818			5
12	1582.815860	791.911568	1565.789311	783.398293	1564.805295	782.906285	G	<b>332.192846</b>	166.600061	315.166297	158.086786			4
13	1639.837324	<b>820.422300</b>	1622.810775	811.909025	1621.826759	811.417017	G	<b>275.171382</b>	138.089329	258.144833	129.576054			3
14	<b>1710.874438</b>	855.940857	1693.847889	847.427582	1692.863873	846.935574	A	<b>218.149918</b>	109.578597	201.123369	101.065322			2
15							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LTIGEGQQHHLGGAK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
75.1	1855.972687	-0.005979	<a href="#">LTIGEGQQHHLGGAK</a>
73.1	1855.972687	-0.005979	<a href="#">LTIGEGQQHHLGGAK</a>
3.7	1855.989944	-0.023236	<a href="#">MLSITPSQLENGKK</a>

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



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LTIGEGQQHHLGGAK**

Found in **FIBG\_HUMAN**, Fibrinogen gamma chain OS=Homo sapiens GN=FGG PE=1 SV=3

Match to Query 36855: 1855.967502 from(619.663110,3+) rtinseconds(1569) index(43298)

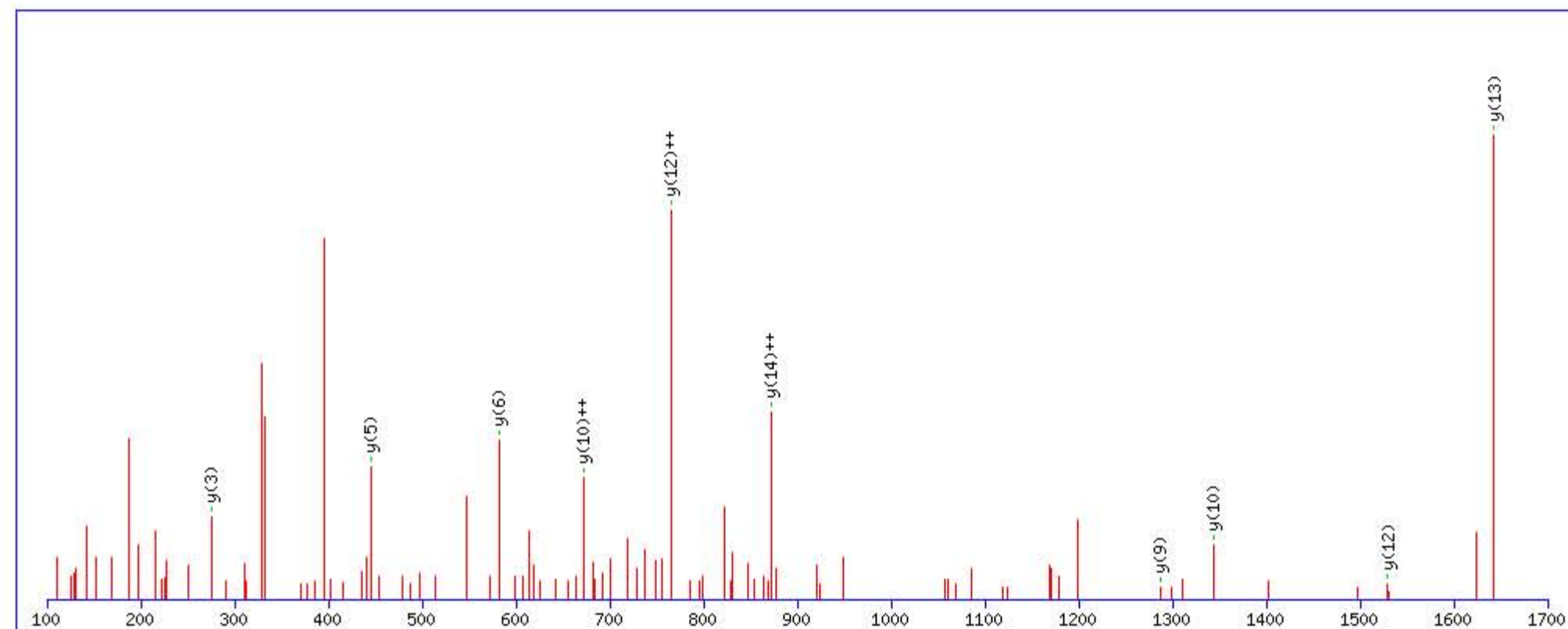
Title: Locus:1.1.1.3259.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1855.972687

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

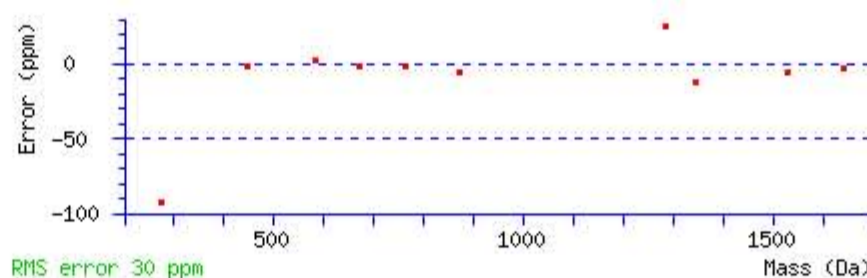
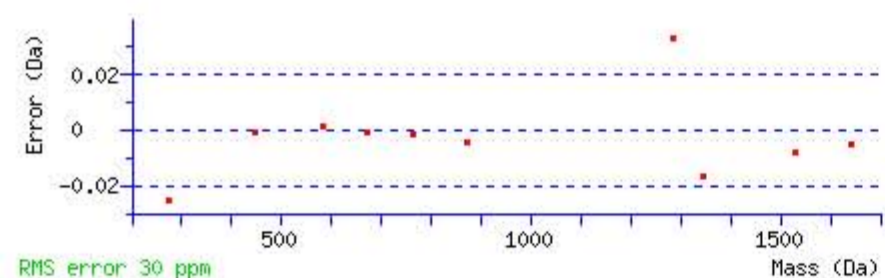
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 44 Expect: 0.00029

Matches : 10/134 fragment ions using 16 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							15
2	215.139019	108.073147			197.128454	99.067865	T	1743.895902	872.451589	1726.869353	863.938314	1725.885337	863.446306	14
3	328.223083	164.615179			310.212518	155.609897	I	1642.848223	821.927749	1625.821674	813.414475	1624.837658	812.922467	13
4	385.244547	193.125911			367.233982	184.120629	G	1529.764159	765.385717	1512.737610	756.872443	1511.753594	756.380435	12
5	514.287140	257.647208			496.276575	248.641926	E	1472.742695	736.874985	1455.716146	728.361711	1454.732130	727.869703	11
6	571.308604	286.157940			553.298039	277.152658	G	1343.700102	672.353689	1326.673553	663.840414			10
7	699.367182	350.187229	682.340633	341.673955	681.356617	341.181947	Q	1286.678638	643.842957	1269.652089	635.329682			9
8	1138.592508	569.799892	1121.565959	561.286618	1120.581943	560.794609	Q	1158.620060	579.813668	1141.593511	571.300393			8
9	1275.651420	638.329348	1258.624871	629.816074	1257.640855	629.324065	H	719.394734	360.201005	702.368185	351.687730			7
10	1412.710332	706.858804	1395.683783	698.345530	1394.699767	697.853521	H	582.335822	291.671549	565.309273	283.158274			6
11	1525.794396	763.400836	1508.767847	754.887561	1507.783831	754.395553	L	445.276910	223.142093	428.250361	214.628818			5
12	1582.815860	791.911568	1565.789311	783.398293	1564.805295	782.906285	G	332.192846	166.600061	315.166297	158.086786			4
13	1639.837324	820.422300	1622.810775	811.909025	1621.826759	811.417017	G	275.171382	138.089329	258.144833	129.576054			3
14	1710.874438	855.940857	1693.847889	847.427582	1692.863873	846.935574	A	218.149918	109.578597	201.123369	101.065322			2
15							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LTIGEGQQHHLGGAK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
43.6	1855.972687	-0.005185	<a href="#">LTIGEGQQHHLGGAK</a>
43.6	1855.972687	-0.005185	<a href="#">LTIGEGQQHHLGGAK</a>
5.9	1855.979202	-0.011700	<a href="#">ITIVENVGSVEGLAYHR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **IGDQWDK**

Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

Match to Query 16908: 1171.565488 from(586.790020,2+) rtinseconds(1839) index(30820)

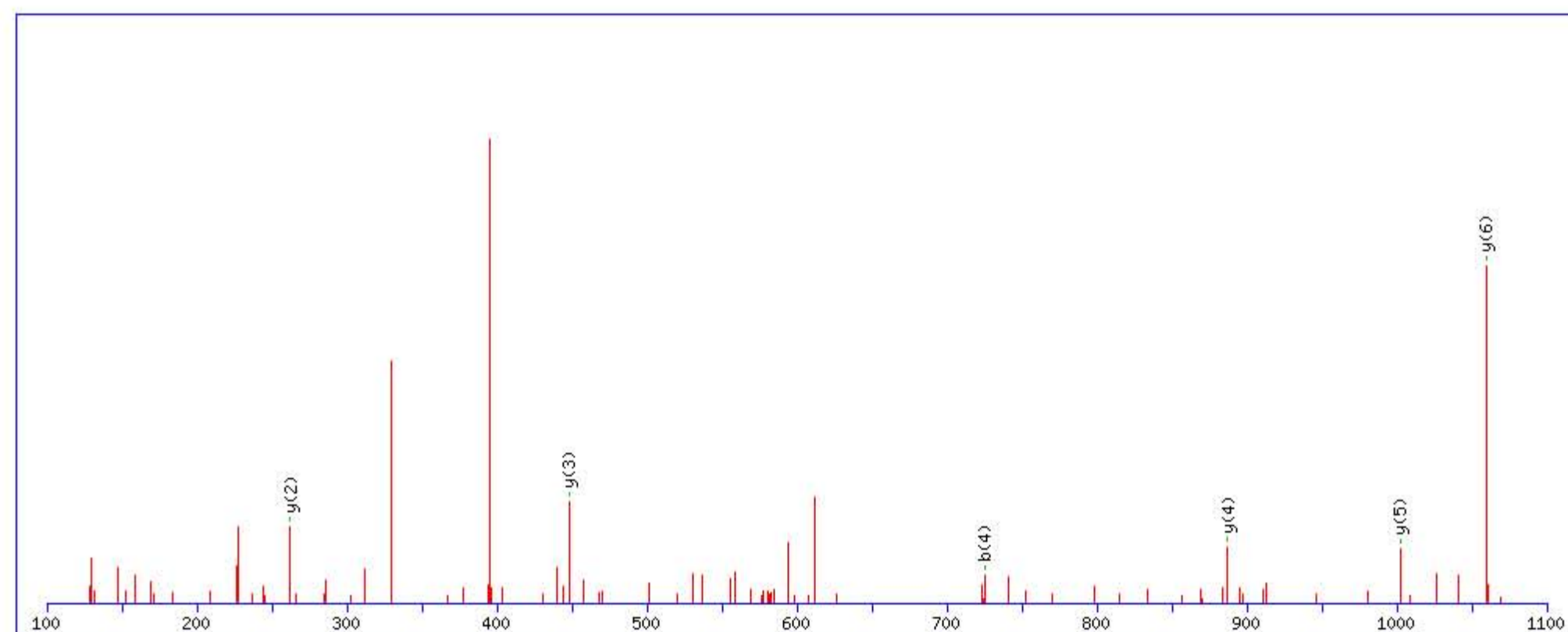
Title: Locus:1.1.1.3304.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1171.569580

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

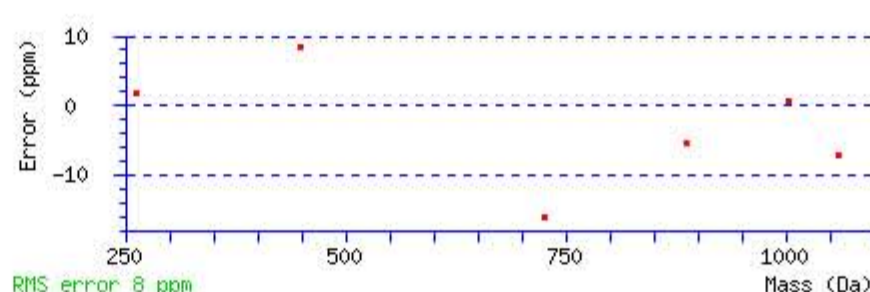
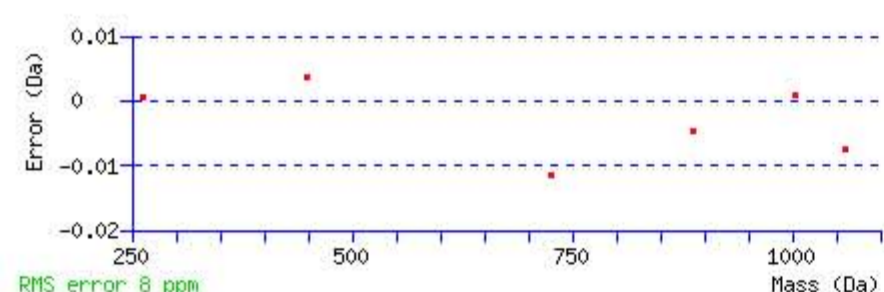
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 31 Expect: 0.0045

Matches : 6/60 fragment ions using 10 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							7
2	171.112804	86.060040					G	1059.492793	530.250035	1042.466244	521.736760	1041.482228	521.244752	6
3	286.139747	143.573512			268.129182	134.568229	D	1002.471329	501.739303	985.444780	493.226028	984.460764	492.734020	5
4	725.365073	363.186175	708.338524	354.672900	707.354508	354.180892	Q	887.444386	444.225831	870.417837	435.712557	869.433821	435.220549	4
5	911.444386	456.225831	894.417837	447.712557	893.433821	447.220549	W	448.219060	224.613168	431.192511	216.099894	430.208495	215.607886	3
6	1026.471329	513.739303	1009.444780	505.226028	1008.460764	504.734020	D	262.139747	131.573512	245.113198	123.060237	244.129182	122.568229	2
7							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **IGDQWDK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
31.2	1171.569580	-0.004092	<a href="#">IGDQWDK</a>
5.8	1171.569565	-0.004077	<a href="#">LGPEWSQPMK</a>
5.1	1171.572067	-0.006579	<a href="#">LGSGPDGAEIHK</a>
3.5	1171.576096	-0.010608	<a href="#">LYFSDATLDK</a>
2.9	1171.572037	-0.006549	<a href="#">ENPEVKAAEEK</a>
1.9	1171.554337	0.011151	<a href="#">ALCDTPGVDPK</a>
0.1	1171.565536	-0.000048	<a href="#">MGSGEPNPAGKK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QHDMGHMMR**

Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

Match to Query 25904: 1452.619736 from(364.162210,4+) rtinseconds(1444) index(28466)

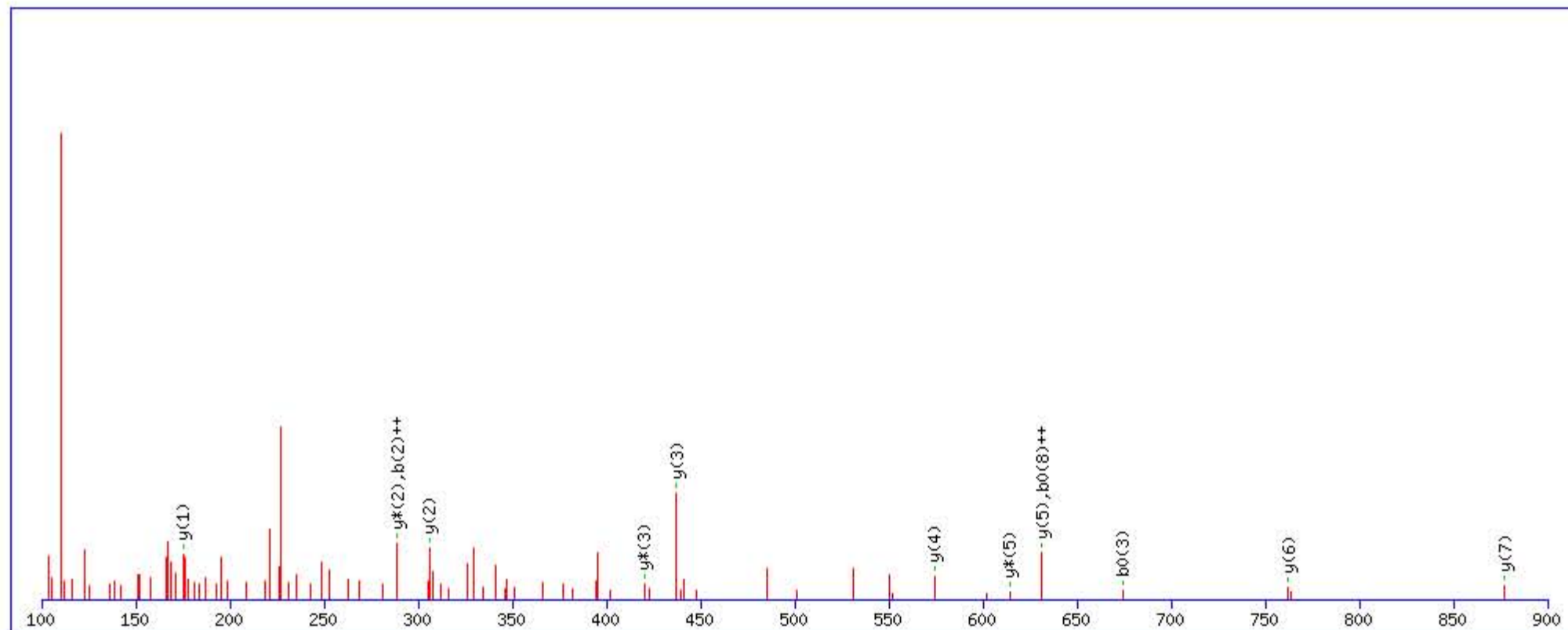
Title: Locus:1.1.1.3166.2 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1452.624680

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

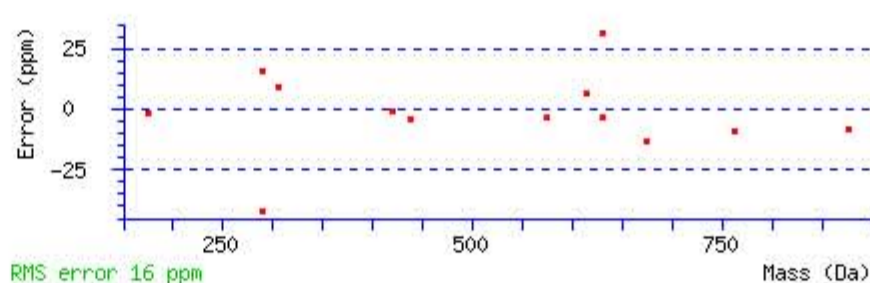
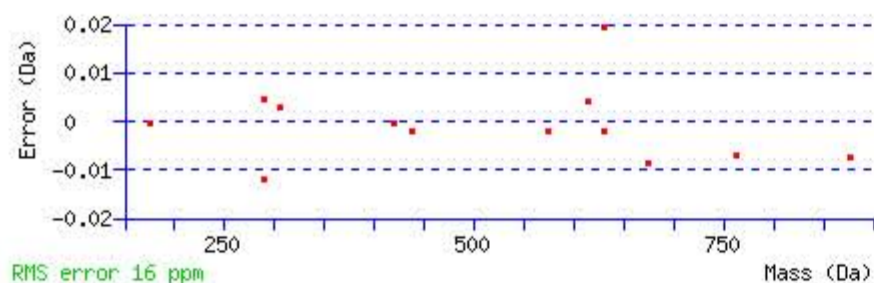
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.0059

Matches : 13/80 fragment ions using 26 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							9
2	577.291514	289.149395	560.264965	280.636121			H	1014.406638	507.706957	997.380089	499.193682	996.396073	498.701674	8
3	692.318457	346.662867	675.291908	338.149592	674.307892	337.657584	D	877.347726	439.177501	860.321177	430.664226	859.337161	430.172218	7
4	823.358942	412.183109	806.332393	403.669834	805.348377	403.177826	M	762.320783	381.664030	745.294234	373.150755			6
5	880.380406	440.693841	863.353857	432.180567	862.369841	431.688559	G	631.280298	316.143787	614.253749	307.630513			5
6	1017.439318	509.223297	1000.412769	500.710022	999.428753	500.218014	H	574.258834	287.633055	557.232285	279.119780			4
7	1148.479803	574.743540	1131.453254	566.230265	1130.469238	565.738257	M	437.199922	219.103599	420.173373	210.590324			3
8	1279.520288	640.263782	1262.493739	631.750508	1261.509723	631.258499	M	306.159437	153.583356	289.132888	145.070082			2
9							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [QHDMGHMMR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
28.4	1452.624680	-0.004944	<a href="#">QHDMGHMMR</a>
1.4	1452.638382	-0.018646	<a href="#">MAMEAGRRDNMR</a>

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

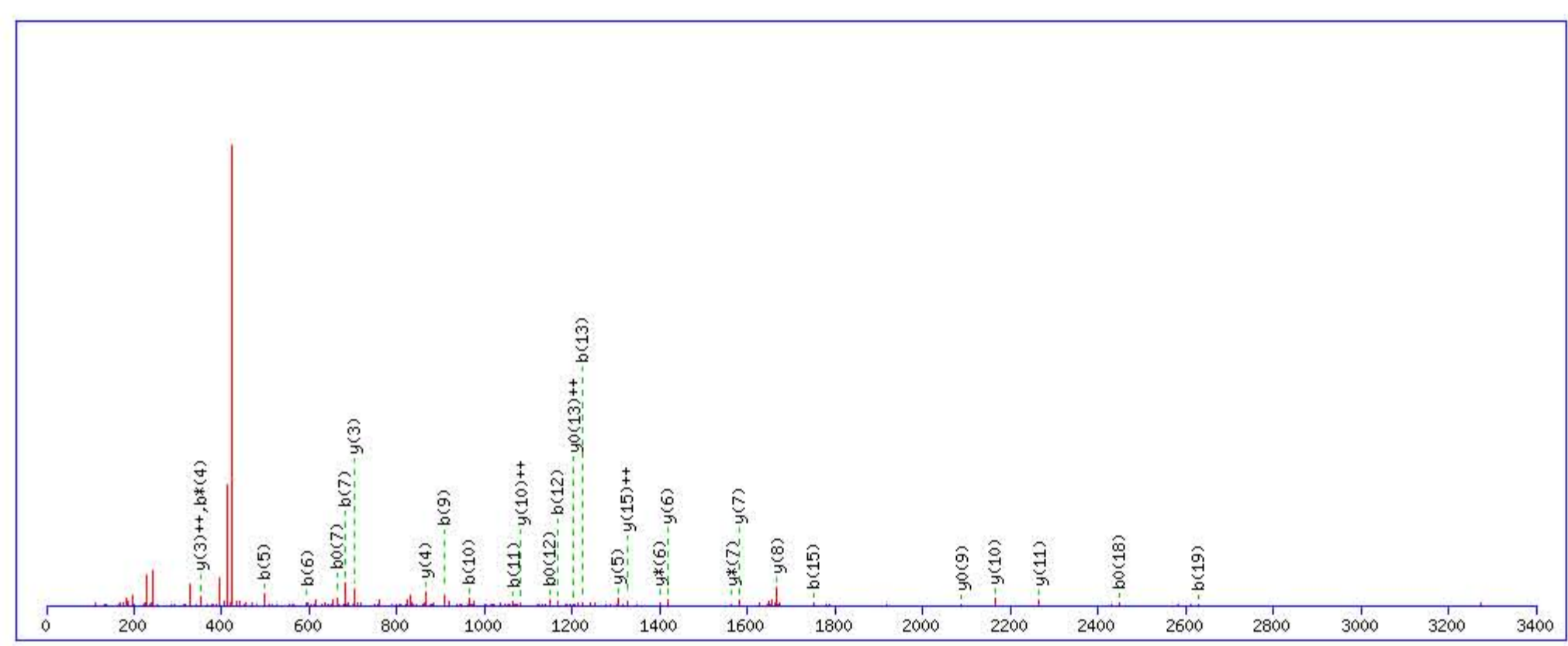
**MASCOT** Mascot Search Results

**Peptide View**

MS/MS Fragmentation of **RPGGEPSPGTTGQSYNQYSQR**  
 Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

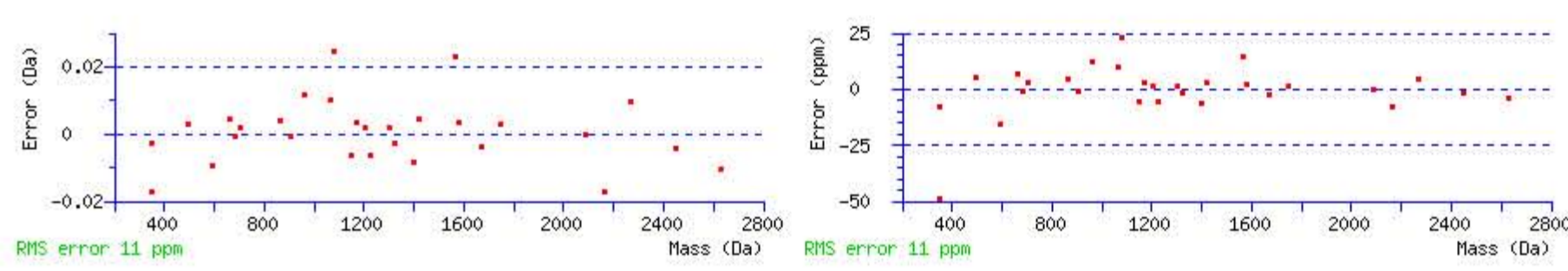
Match to Query 32963: 3328.570736 from(833.149960,4+) rtinseconds(2038) index(32110)  
 Title: Locus:1.1.1.3373.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3328.579117  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q14 : Biotin:Thermo-21345 (Q)  
 Q18 : Biotin:Thermo-21345 (Q)  
 Q21 : Biotin:Thermo-21345 (Q)  
 Ions Score: 41 Expect: 0.00019  
 Matches : 29/240 fragment ions using 60 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	157.108387	79.057831	140.081838	70.544557			R							22
2	254.161151	127.584213	237.134602	119.070939			P	3173.485291	1587.246283	3156.458742	1578.733009	3155.474726	1578.241001	21
3	311.182615	156.094945	294.156066	147.581671			G	3076.432527	1538.719901	3059.405978	1530.206627	3058.421962	1529.714619	20
4	368.204079	184.605677	351.177530	176.092403			G	3019.411063	1510.209169	3002.384514	1501.695895	3001.400498	1501.203887	19
5	497.246672	249.126974	480.220123	240.613700	479.236107	240.121692	E	2962.389599	1481.698438	2945.363050	1473.185163	2944.379034	1472.693155	18
6	594.299436	297.653356	577.272887	289.140082	576.288871	288.648074	P	2833.347006	1417.177141	2816.320457	1408.663866	2815.336441	1408.171858	17
7	681.331464	341.169370	664.304915	332.656095	663.320899	332.164087	S	2736.294242	1368.650759	2719.267693	1360.137484	2718.283677	1359.645476	16
8	778.384228	389.695752	761.357679	381.182478	760.373663	380.690470	P	2649.262214	1325.134745	2632.235665	1316.621470	2631.251649	1316.129462	15
9	907.426821	454.217049	890.400272	445.703774	889.416256	445.211766	E	2552.209450	1276.608363	2535.182901	1268.095088	2534.198885	1267.603080	14
10	964.448285	482.727781	947.421736	474.214506	946.437720	473.722498	G	2423.166857	1212.087066	2406.140308	1203.573792	2405.156292	1203.081784	13
11	1065.495964	533.251620	1048.469415	524.738346	1047.485399	524.246337	T	2366.145393	1183.576334	2349.118844	1175.063060	2348.134828	1174.571052	12
12	1166.543643	583.775460	1149.517094	575.262185	1148.533078	574.770177	T	2265.097714	1133.052495	2248.071165	1124.539220	2247.087149	1124.047212	11
13	1223.565107	612.286191	1206.538558	603.772917	1205.554542	603.280909	G	2164.050035	1082.528655	2147.023486	1074.015381	2146.039470	1073.523373	10
14	1662.790433	831.898854	1645.763884	823.385580	1644.779868	822.893572	Q	2107.028571	1054.017924	2090.002022	1045.504649	2089.018006	1045.012641	9
15	1749.822461	875.414869	1732.795912	866.901594	1731.811896	866.409586	S	1667.803245	834.405261	1650.776696	825.891986	1649.792680	825.399978	8
16	1912.885790	956.946533	1895.859241	948.433259	1894.875225	947.941251	Y	1580.771217	790.889247	1563.744668	782.375972	1562.760652	781.883964	7
17	2026.928717	1013.967997	2009.902168	1005.454722	2008.918152	1004.962714	N	1417.707888	709.357582	1400.681339	700.844308	1399.697323	700.352300	6
18	2466.154043	1233.580659	2449.127494	1225.067385	2448.143478	1224.575377	Q	1303.664961	652.336119	1286.638412	643.822844	1285.654396	643.330836	5
19	2629.217372	1315.112324	2612.190823	1306.599049	2611.206807	1306.107041	Y	864.439635	432.723456	847.413086	424.210181	846.429070	423.718173	4
20	2716.249400	1358.628338	2699.222851	1350.115063	2698.238835	1349.623056	S	701.376306	351.191791	684.349757	342.678517	683.365741	342.186509	3
21	3155.474726	1578.241001	3138.448177	1569.727727	3137.464161	1569.235719	Q	614.344278	307.675777	597.317729	299.162503			2
22							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **RPGGEPSPGTTGQSYNQYSQR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
41.3	3328.579117	-0.008381	<a href="#">RPGGEPSPGTTGQSYNQYSQR</a>
1.7	3328.600220	-0.029484	<a href="#">VPPEWKALTDMPQMRMELERPGGNEITR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **HYQINQQWER**

Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

Match to Query 33872: 1711.831708 from(856.923130,2+) rtinseconds(1795) index(30573)

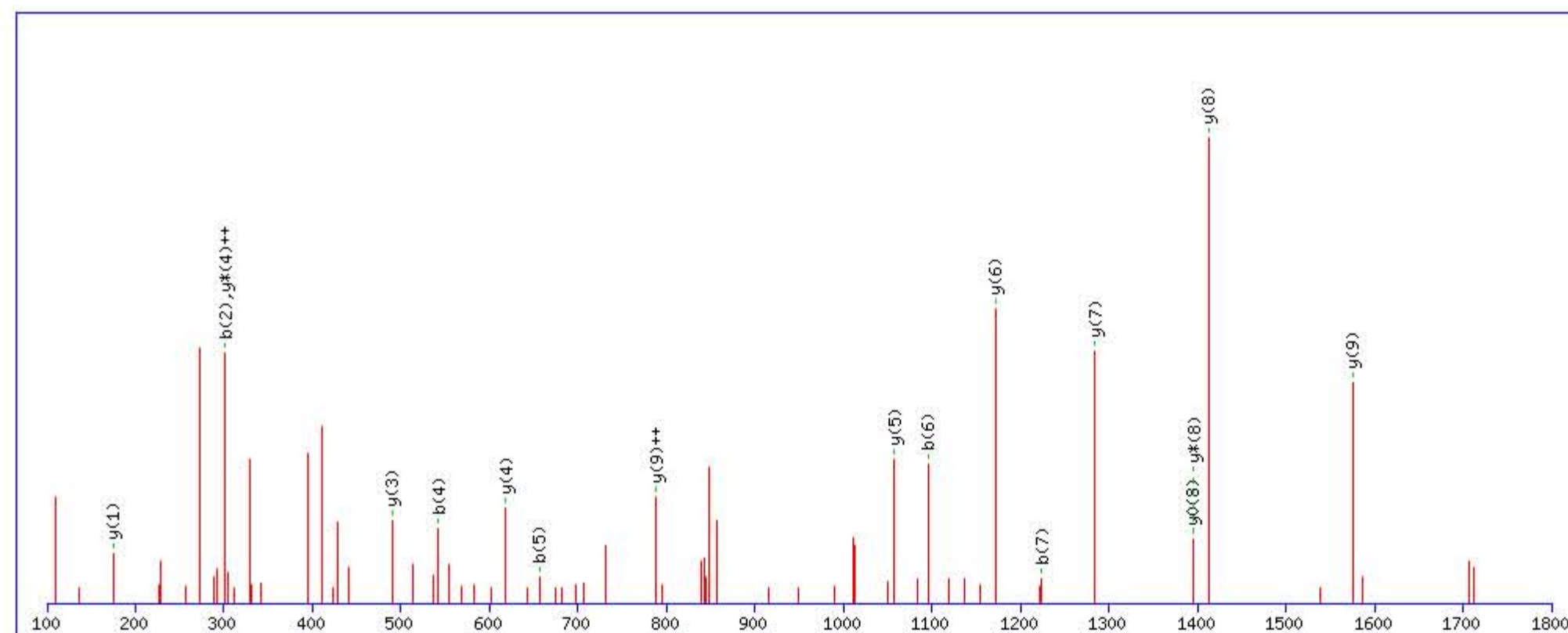
Title: Locus:1.1.1.3288.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1711.825272

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

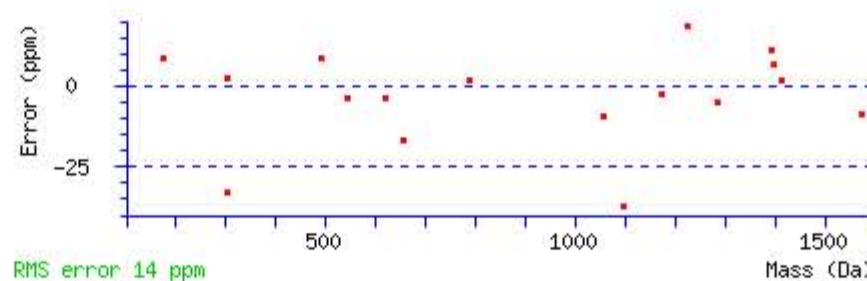
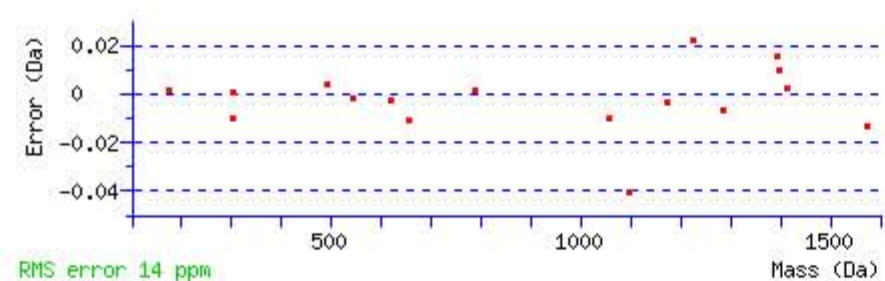
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 44 Expect: 0.00086

Matches : 17/86 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							10
2	<b>301.129517</b>	151.068397					Y	<b>1575.773660</b>	<b>788.390468</b>	1558.747111	779.877194	1557.763095	779.385186	9
3	429.188095	215.097686	412.161546	206.584411			Q	<b>1412.710331</b>	706.858804	<b>1395.683782</b>	698.345529	<b>1394.699766</b>	697.853521	8
4	<b>542.272159</b>	271.639718	525.245610	263.126443			I	<b>1284.651753</b>	642.829514	1267.625204	634.316240	1266.641188	633.824232	7
5	<b>656.315086</b>	328.661181	639.288537	320.147907			N	<b>1171.567689</b>	586.287483	1154.541140	577.774208	1153.557124	577.282200	6
6	<b>1095.540412</b>	548.273844	1078.513863	539.760570			Q	<b>1057.524762</b>	529.266019	1040.498213	520.752745	1039.514197	520.260737	5
7	<b>1223.598990</b>	612.303133	1206.572441	603.789859			Q	<b>618.299436</b>	309.653356	601.272887	<b>301.140082</b>	600.288871	300.648074	4
8	1409.678303	705.342790	1392.651754	696.829515			W	<b>490.240858</b>	245.624067	473.214309	237.110792	472.230293	236.618784	3
9	1538.720896	769.864086	1521.694347	761.350812	1520.710331	760.858804	E	304.161545	152.584410	287.134996	144.071136	286.150980	143.579128	2
10							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [HYQINQQWER](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
44.0	1711.825272	0.006436	<a href="#">HYQINQQWER</a>
31.7	1711.825272	0.006436	<a href="#">HYQINQQWER</a>
13.1	1711.825272	0.006436	<a href="#">HYQINQQWER</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GEWTCIAYSQLR**

Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

Match to Query 35590: 1793.862048 from(897.938300,2+) rtinseconds(2380) index(33969)

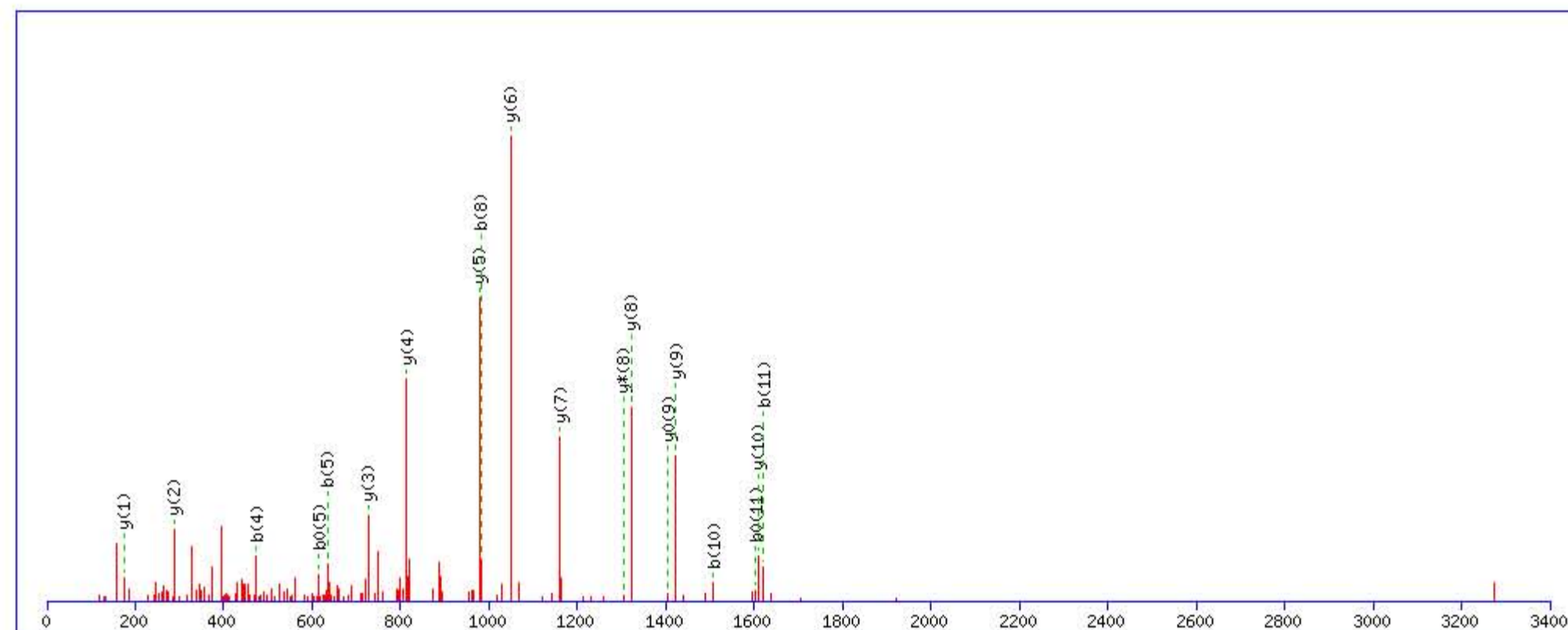
Title: Locus:1.1.1.3492.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1793.859283

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

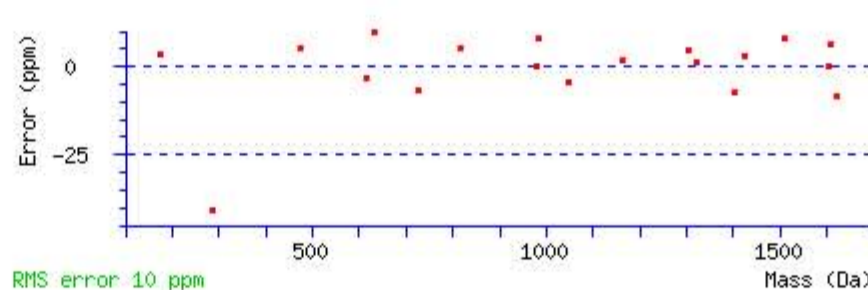
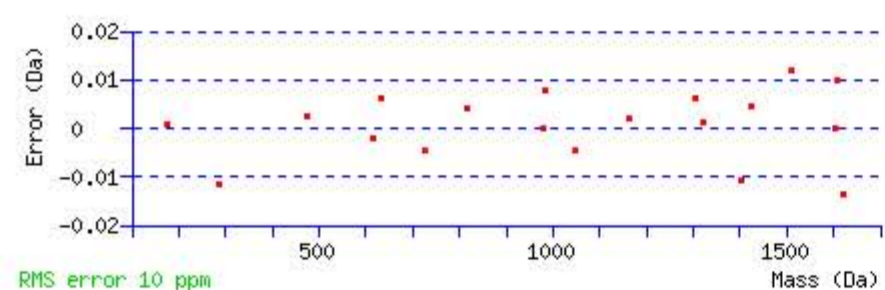
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 72 Expect: 1.2e-006

Matches : 19/106 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							12
2	187.071333	94.039305			169.060768	85.034022	E	1737.845111	869.426194	1720.818562	860.912919	1719.834546	860.420911	11
3	373.150646	187.078961			355.140081	178.073679	W	<b>1608.802518</b>	804.904897	1591.775969	796.391623	1590.791953	795.899614	10
4	<b>474.198325</b>	237.602801			456.187760	228.597518	T	<b>1422.723205</b>	711.865241	1405.696656	703.351966	<b>1404.712640</b>	702.859958	9
5	<b>634.228974</b>	317.618125			<b>616.218409</b>	308.612843	C	<b>1321.675526</b>	661.341401	<b>1304.648977</b>	652.828127	1303.664961	652.336119	8
6	747.313038	374.160157			729.302473	365.154875	I	<b>1161.644877</b>	581.326077	1144.618328	572.812802	1143.634312	572.320794	7
7	818.350152	409.678714			800.339587	400.673432	A	<b>1048.560813</b>	524.784044	1031.534264	516.270770	1030.550248	515.778762	6
8	<b>981.413481</b>	491.210379			963.402916	482.205096	Y	<b>977.523699</b>	489.265488	960.497150	480.752213	959.513134	480.260205	5
9	1068.445509	534.726393			1050.434944	525.721110	S	<b>814.460370</b>	407.733823	797.433821	399.220549	796.449805	398.728541	4
10	<b>1507.670835</b>	754.339056	1490.644286	745.825781	1489.660270	745.333773	Q	<b>727.428342</b>	364.217809	710.401793	355.704534			3
11	<b>1620.754899</b>	810.881088	1603.728350	802.367813	<b>1602.744334</b>	801.875805	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
12							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GEWTCIAYSQLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
72.0	1793.859283	0.002765	<a href="#">GEWTCIAYSQLR</a>
18.7	1793.865158	-0.003110	<a href="#">ACLECELTSDKDVTLR</a>
6.2	1793.888275	-0.026227	<a href="#">QYVVEPNFANKAVCR</a>
1.9	1793.873016	-0.010968	<a href="#">DQKLFVSESRMPDSR</a>
1.9	1793.870529	-0.008481	<a href="#">MAPGCWFLISSRPTR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **WCGTTQNYDADQK**

Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

Match to Query 37359: 1896.804942 from(633.275590,3+) rtinseconds(1688) index(29940)

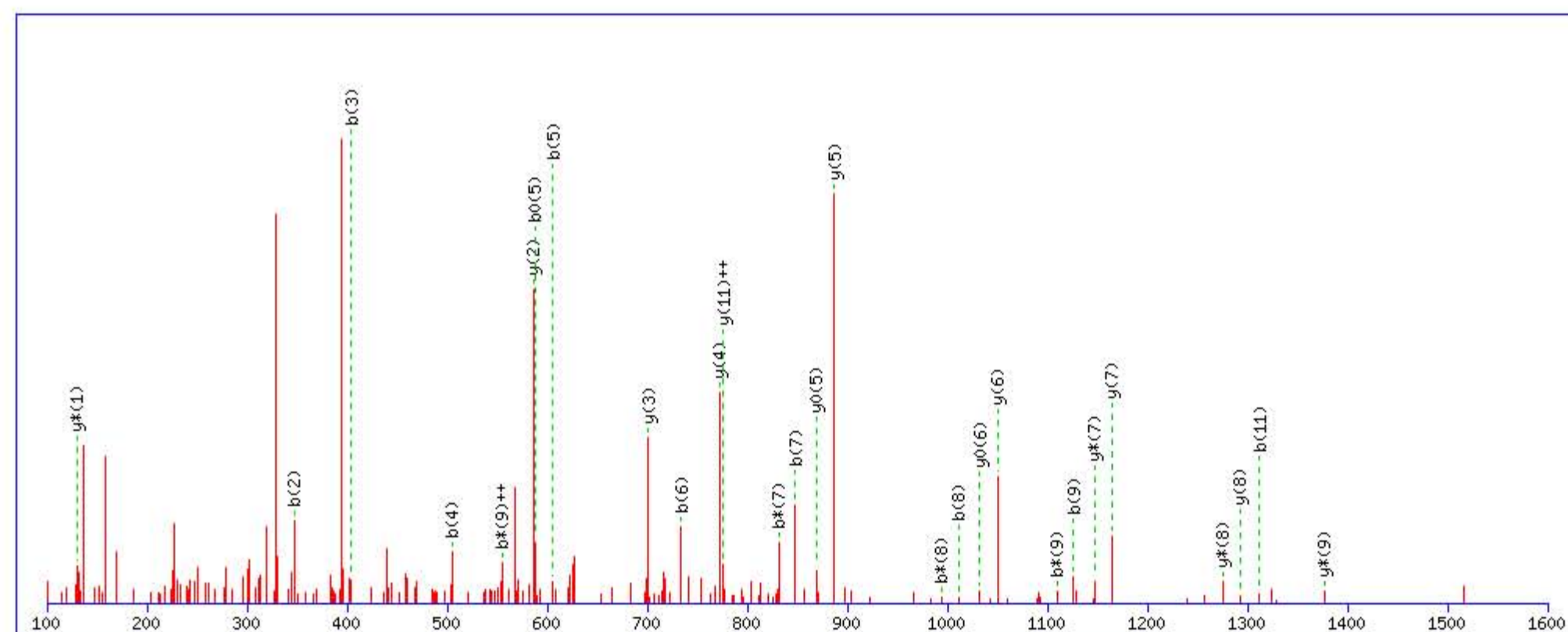
Title: Locus:1.1.1.3251.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1896.813477

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

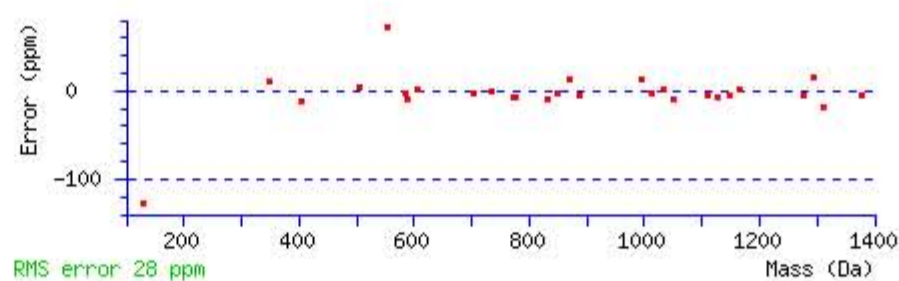
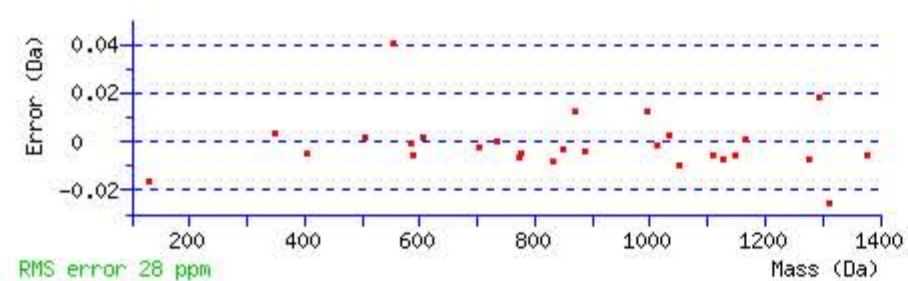
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 34 Expect: 0.0012

Matches : 28/124 fragment ions using 64 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	187.086589	94.046932					W							13
2	<b>347.117238</b>	174.062257					C	1711.741435	856.374356	1694.714886	847.861081	1693.730870	847.369073	12
3	<b>404.138702</b>	202.572989					G	1551.710786	<b>776.359031</b>	1534.684237	767.845757	1533.700221	767.353749	11
4	<b>505.186381</b>	253.096828			487.175816	244.091546	T	1494.689322	747.848299	1477.662773	739.335025	1476.678757	738.843017	10
5	<b>606.234060</b>	303.620668			<b>588.223495</b>	294.615386	T	1393.641643	697.324460	<b>1376.615094</b>	688.811185	1375.631078	688.319177	9
6	<b>734.292638</b>	367.649957	717.266089	359.136683	716.282073	358.644675	Q	<b>1292.593964</b>	646.800620	<b>1275.567415</b>	638.287346	1274.583399	637.795338	8
7	<b>848.335565</b>	424.671421	<b>831.309016</b>	416.158146	830.325000	415.666138	N	<b>1164.535386</b>	582.771331	<b>1147.508837</b>	574.258057	1146.524821	573.766049	7
8	<b>1011.398894</b>	506.203085	<b>994.372345</b>	497.689810	993.388329	497.197802	Y	<b>1050.492459</b>	525.749868	1033.465910	517.236593	<b>1032.481894</b>	516.744585	6
9	<b>1126.425837</b>	563.716557	<b>1109.399288</b>	<b>555.203282</b>	1108.415272	554.711274	D	<b>887.429130</b>	444.218203	870.402581	435.704929	<b>869.418565</b>	435.212921	5
10	1197.462951	599.235114	1180.436402	590.721839	1179.452386	590.229831	A	<b>772.402187</b>	386.704732	755.375638	378.191457	754.391622	377.699449	4
11	<b>1312.489894</b>	656.748585	1295.463345	648.235311	1294.479329	647.743303	D	<b>701.365073</b>	351.186175	684.338524	342.672900	683.354508	342.180892	3
12	1751.715220	876.361248	1734.688671	867.847974	1733.704655	867.355966	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
13							K	147.112804	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of [WCGTTQNYDADQK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
34.2	1896.813477	-0.008535	<a href="#">WCGTTQNYDADQK</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **TYHVGEQWQK**

Found in **FN1\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

Match to Query 37366: 1896.938908 from(949.476730,2+) rtinseconds(2039) index(32114)

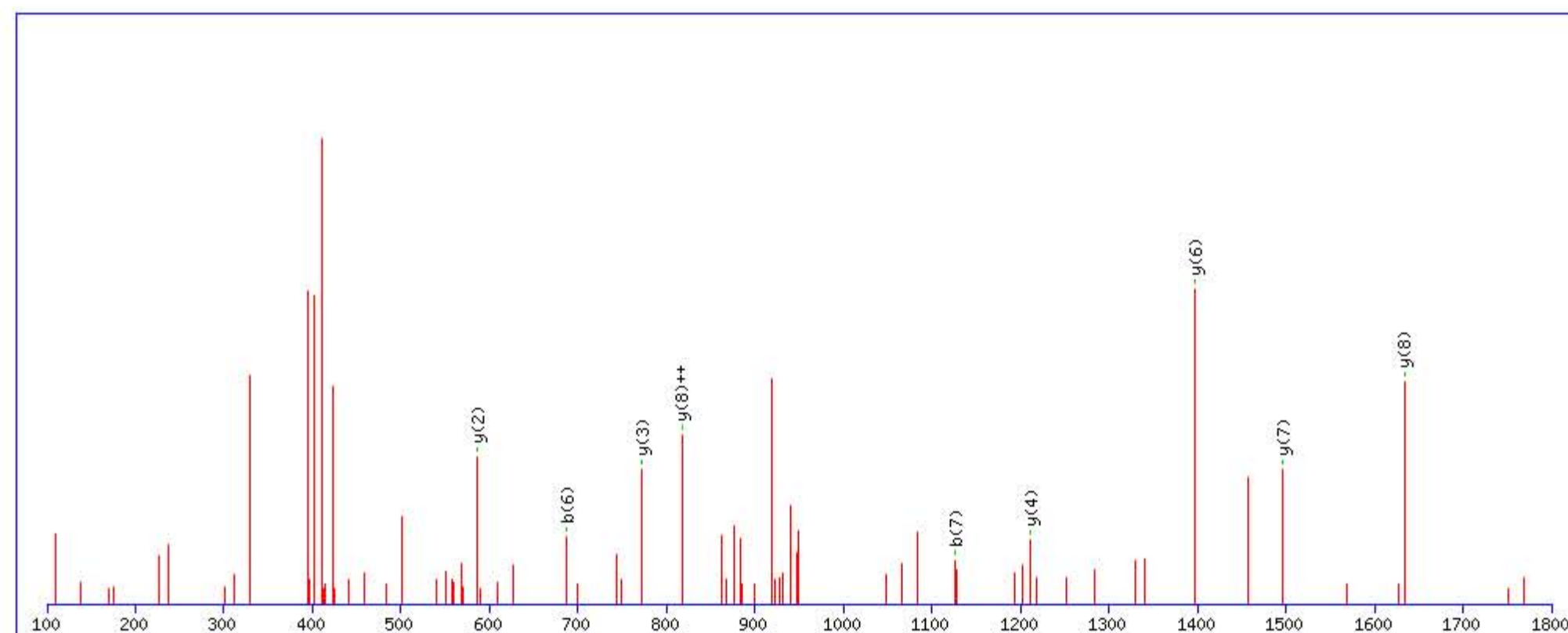
Title: Locus:1.1.1.3373.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1896.937881

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

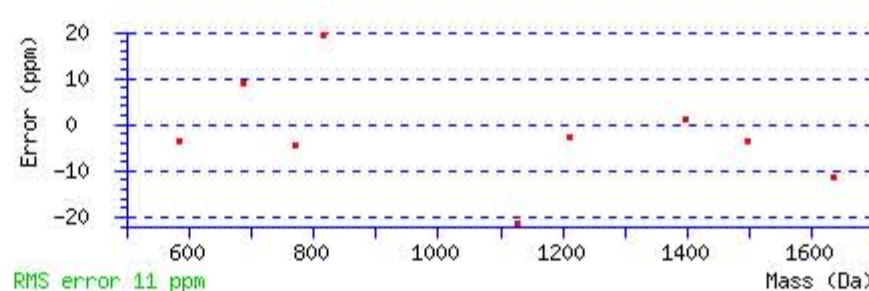
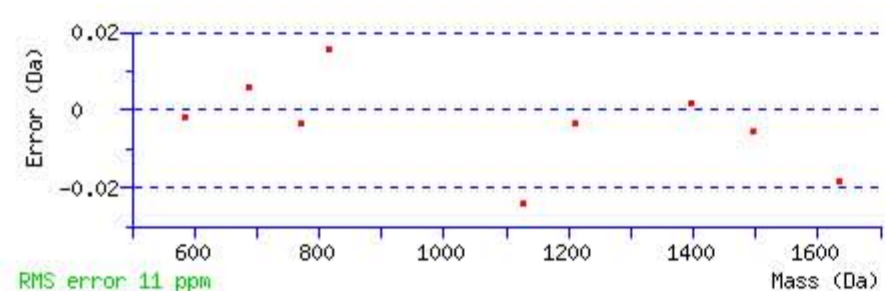
Q7 : Biotin:Thermo-21345 (Q)

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.0055

Matches : 9/88 fragment ions using 17 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							10
2	265.118284	133.062780			247.107719	124.057498	Y	1796.897481	898.952379	1779.870932	890.439104	1778.886916	889.947096	9
3	402.177196	201.592236			384.166631	192.586954	H	<b>1633.834152</b>	<b>817.420714</b>	1616.807603	808.907440	1615.823587	808.415431	8
4	501.245610	251.126443			483.235045	242.121161	V	<b>1496.775240</b>	748.891258	1479.748691	740.377984	1478.764675	739.885975	7
5	558.267074	279.637175			540.256509	270.631893	G	<b>1397.706826</b>	699.357051	1380.680277	690.843776	1379.696261	690.351768	6
6	<b>687.309667</b>	344.158472			669.299102	335.153189	E	1340.685362	670.846319	1323.658813	662.333045	1322.674797	661.841036	5
7	<b>1126.534993</b>	563.771135	1109.508444	555.257860	1108.524428	554.765852	Q	<b>1211.642769</b>	606.325022	1194.616220	597.811748			4
8	1312.614306	656.810791	1295.587757	648.297517	1294.603741	647.805508	W	<b>772.417443</b>	386.712360	755.390894	378.199085			3
9	1751.839632	876.423454	1734.813083	867.910180	1733.829067	867.418171	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
10							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **TYHVGEQWQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
26.1	1896.937881	0.001027	<a href="#">TYHVGEQWQK</a>
1.9	1896.947586	-0.008678	<a href="#">GATGDSHLLCTRKPEQK</a>
0.8	1896.933640	0.005268	<a href="#">QQGESNQERGARAR</a>

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



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LLCQCLGFGSGHFR**

Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

Match to Query 38589: 1961.929708 from(981.972130,2+) rtinseconds(2194) index(32996)

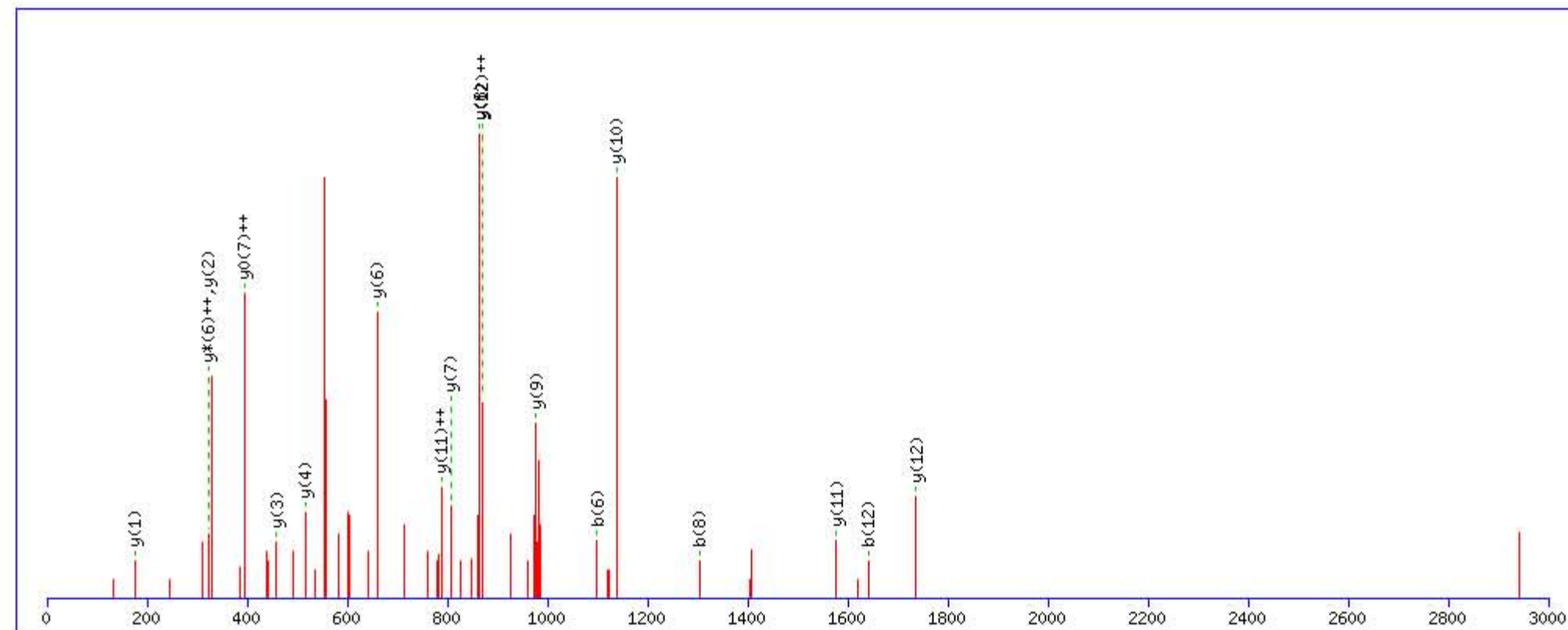
Title: Locus:1.1.1.3427.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1961.942673

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

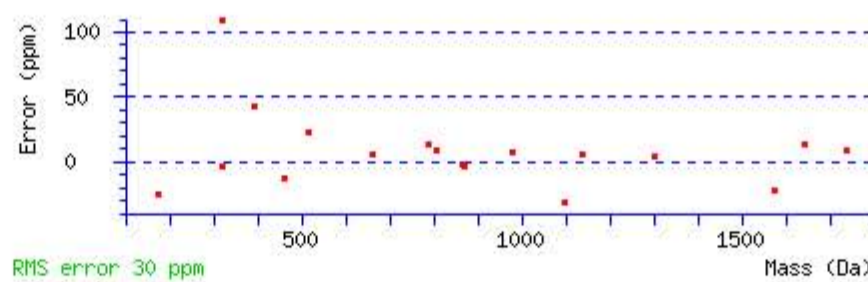
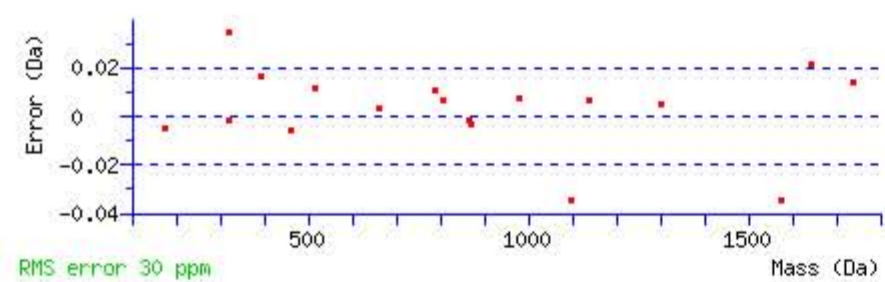
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 77 Expect: 1.1e-007

Matches : 18/124 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							14
2	227.175404	114.091340					L	1849.865864	925.436570	1832.839315	916.923296	1831.855299	916.431288	13
3	387.206053	194.106664					C	<b>1736.781800</b>	<b>868.894538</b>	1719.755251	860.381264	1718.771235	859.889255	12
4	826.431379	413.719328	809.404830	405.206053			Q	<b>1576.751151</b>	<b>788.879213</b>	1559.724602	780.365939	1558.740586	779.873931	11
5	986.462028	493.734652	969.435479	485.221378			C	<b>1137.525825</b>	569.266550	1120.499276	560.753276	1119.515260	560.261268	10
6	<b>1099.546092</b>	550.276684	1082.519543	541.763410			L	<b>977.495176</b>	489.251226	960.468627	480.737952	959.484611	480.245944	9
7	1156.567556	578.787416	1139.541007	570.274142			G	<b>864.411112</b>	432.709194	847.384563	424.195920	846.400547	423.703912	8
8	<b>1303.635970</b>	652.321623	1286.609421	643.808349			F	<b>807.389648</b>	404.198462	790.363099	395.685188	789.379083	<b>395.193180</b>	7
9	1360.657434	680.832355	1343.630885	672.319081			G	<b>660.321234</b>	330.664255	643.294685	<b>322.150981</b>	642.310669	321.658973	6
10	1447.689462	724.348369	1430.662913	715.835095	1429.678897	715.343087	S	603.299770	302.153523	586.273221	293.640249	585.289205	293.148241	5
11	1504.710926	752.859101	1487.684377	744.345827	1486.700361	743.853818	G	<b>516.267742</b>	258.637509	499.241193	250.124235			4
12	<b>1641.769838</b>	821.388557	1624.743289	812.875283	1623.759273	812.383274	H	<b>459.246278</b>	230.126777	442.219729	221.613502			3
13	1788.838252	894.922764	1771.811703	886.409490	1770.827687	885.917482	F	<b>322.187366</b>	161.597321	305.160817	153.084047			2
14							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LLCQCLGFGSGHFR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
76.6	1961.942673	-0.012965	<a href="#">LLCQCLGFGSGHFR</a>
2.3	1961.938614	-0.008906	<a href="#">HECMAPLTALVKHMHR</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **YSFCTDHTVLVQTR**

Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

Match to Query 40520: 2036.975682 from(679.999170,3+) rtinseconds(2029) index(32064)

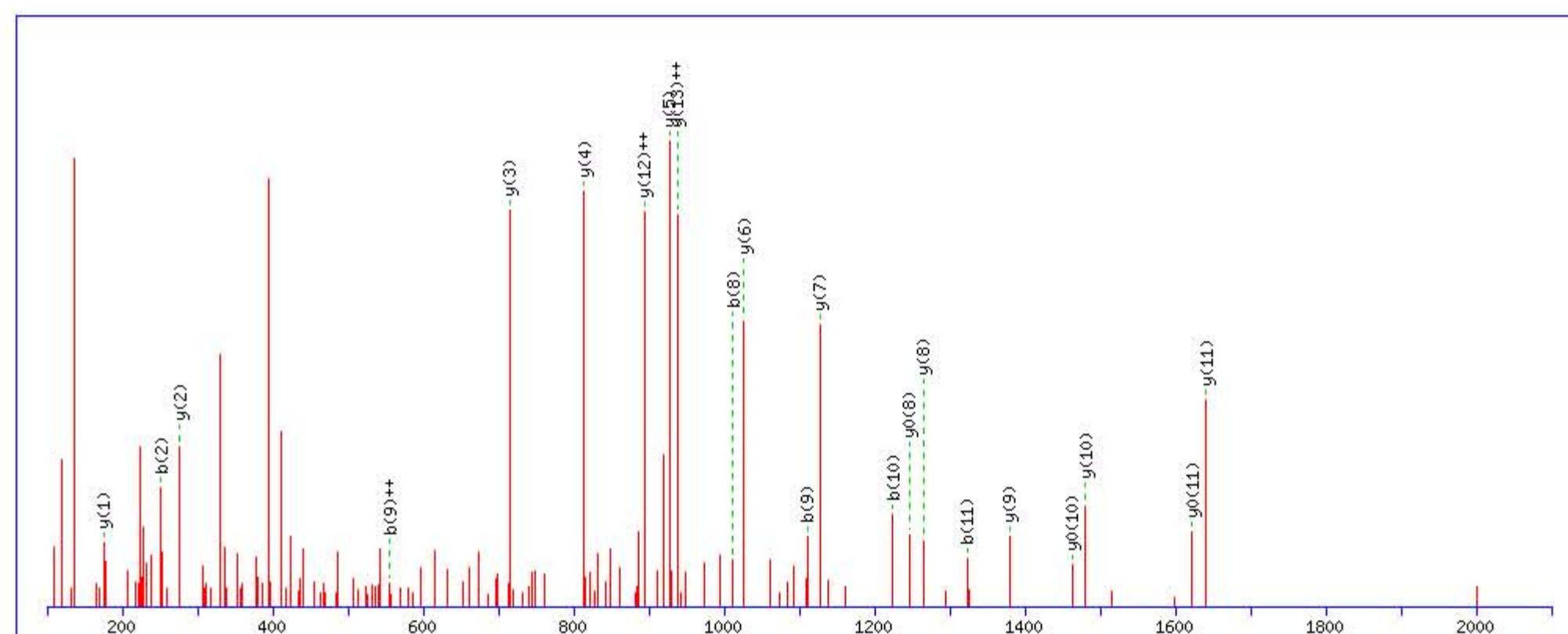
Title: Locus:1.1.1.3370.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2036.981232

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

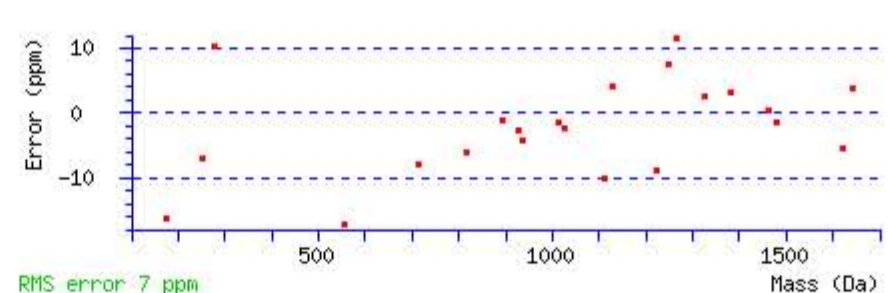
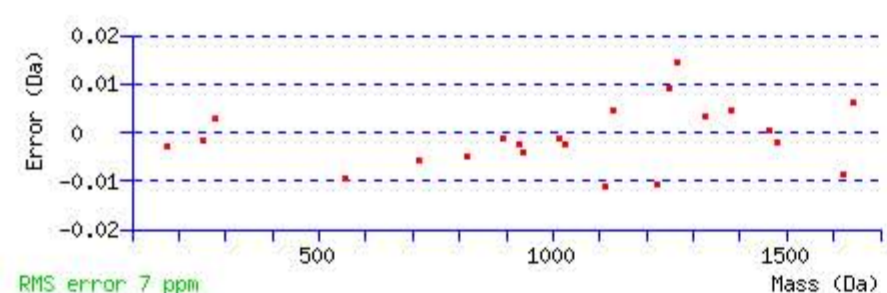
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 59 Expect: 2.7e-005

Matches : 22/130 fragment ions using 46 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							14
2	<b>251.102633</b>	126.054954			233.092068	117.049672	S	1874.925153	<b>937.966215</b>	1857.898604	929.452940	1856.914588	928.960932	13
3	398.171047	199.589161			380.160482	190.583879	F	1787.893125	<b>894.450201</b>	1770.866576	885.936926	1769.882560	885.444918	12
4	558.201696	279.604486			540.191131	270.599204	C	<b>1640.824711</b>	820.915994	1623.798162	812.402719	<b>1622.814146</b>	811.910711	11
5	659.249375	330.128326			641.238810	321.123043	T	<b>1480.794062</b>	740.900669	1463.767513	732.387395	<b>1462.783497</b>	731.895387	10
6	774.276318	387.641797			756.265753	378.636515	D	<b>1379.746383</b>	690.376830	1362.719834	681.863555	1361.735818	681.371547	9
7	911.335230	456.171253			893.324665	447.165971	H	<b>1264.719440</b>	632.863358	1247.692891	624.350084	<b>1246.708875</b>	623.858076	8
8	<b>1012.382909</b>	506.695093			994.372344	497.689810	T	<b>1127.660528</b>	564.333902	1110.633979	555.820628	1109.649963	555.328620	7
9	<b>1111.451323</b>	<b>556.229300</b>			1093.440758	547.224017	V	<b>1026.612849</b>	513.810063	1009.586300	505.296788	1008.602284	504.804780	6
10	<b>1224.535387</b>	612.771331			1206.524822	603.766049	L	<b>927.544435</b>	464.275856	910.517886	455.762581	909.533870	455.270573	5
11	<b>1323.603801</b>	662.305539			1305.593236	653.300256	V	<b>814.460371</b>	407.733824	797.433822	399.220549	796.449806	398.728541	4
12	1762.829127	881.918202	1745.802578	873.404927	1744.818562	872.912919	Q	<b>715.391957</b>	358.199617	698.365408	349.686342	697.381392	349.194334	3
13	1863.876806	932.442041	1846.850257	923.928767	1845.866241	923.436759	T	<b>276.166631</b>	138.586953	259.140082	130.073679	258.156066	129.581671	2
14							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [YSFCTDHTVLVQTR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
58.9	2036.981232	-0.005550	<a href="#">YSFCTDHTVLVQTR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **HTSVQTTSSGSGPFTDVR**

Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

Match to Query 42784: 2174.033832 from(725.685220,3+) rtinseconds(1691) index(29953)

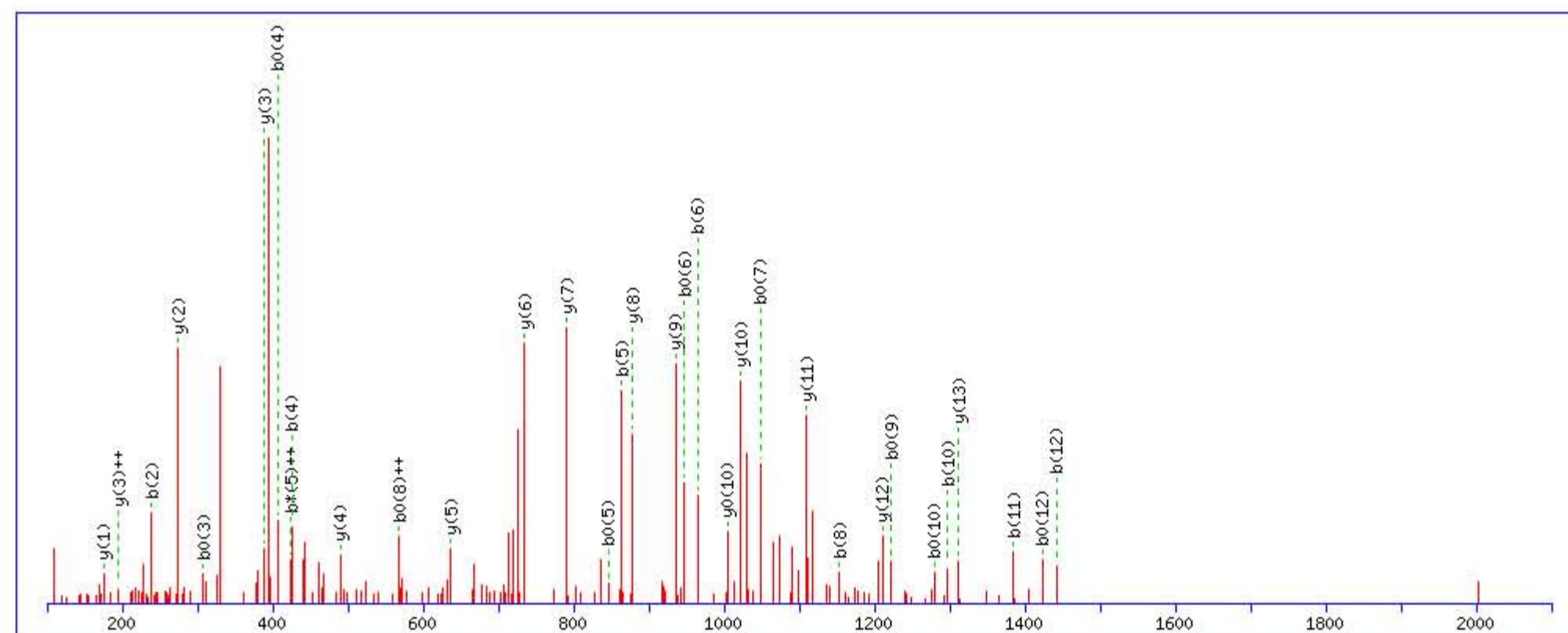
Title: Locus:1.1.1.3252.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2174.042664

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

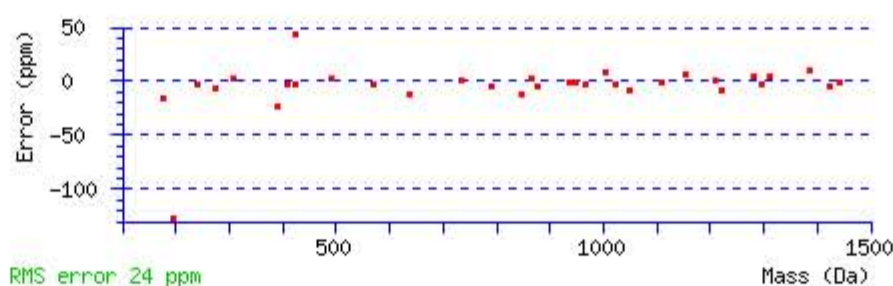
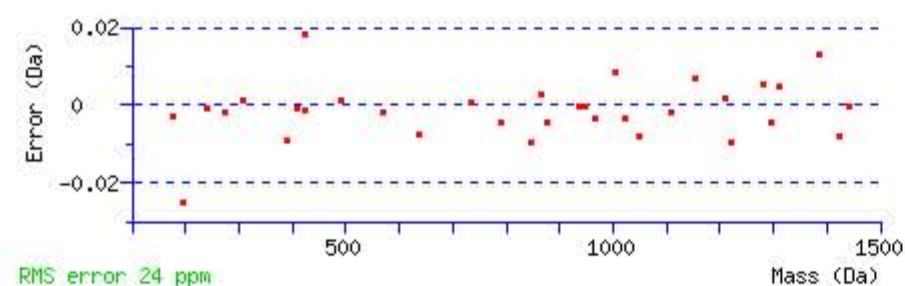
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 82 Expect: 1.1e-007

Matches : 33/190 fragment ions using 56 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							18
2	<b>239.113867</b>	120.060571			221.103302	111.055289	T	2037.990983	1019.499130	2020.964434	1010.985855	2019.980418	1010.493847	17
3	326.145895	163.576585			<b>308.135330</b>	154.571303	S	1936.943304	968.975290	1919.916755	960.462016	1918.932739	959.970008	16
4	<b>425.214309</b>	213.110792			<b>407.203744</b>	204.105510	V	1849.911276	925.459276	1832.884727	916.946002	1831.900711	916.453994	15
5	<b>864.439635</b>	432.723456	847.413086	<b>424.210181</b>	<b>846.429070</b>	423.718173	Q	1750.842862	875.925069	1733.816313	867.411795	1732.832297	866.919787	14
6	<b>965.487314</b>	483.247295	948.460765	474.734021	<b>947.476749</b>	474.242013	T	<b>1311.617536</b>	656.312406	1294.590987	647.799132	1293.606971	647.307124	13
7	1066.534993	533.771135	1049.508444	525.257860	<b>1048.524428</b>	524.765852	T	<b>1210.569857</b>	605.788567	1193.543308	597.275292	1192.559292	596.783284	12
8	<b>1153.567021</b>	577.287149	1136.540472	568.773874	1135.556456	<b>568.281866</b>	S	<b>1109.522178</b>	555.264727	1092.495629	546.751453	1091.511613	546.259445	11
9	1240.599049	620.803163	1223.572500	612.289888	<b>1222.588484</b>	611.797880	S	<b>1022.490150</b>	511.748713	1005.463601	503.235439	<b>1004.479585</b>	502.743431	10
10	<b>1297.620513</b>	649.313895	1280.593964	640.800620	<b>1279.609948</b>	640.308612	G	<b>935.458122</b>	468.232699	918.431573	459.719425	917.447557	459.227417	9
11	<b>1384.652541</b>	692.829909	1367.625992	684.316634	1366.641976	683.824626	S	<b>878.436658</b>	439.721967	861.410109	431.208693	860.426093	430.716685	8
12	<b>1441.674005</b>	721.340641	1424.647456	712.827366	<b>1423.663440</b>	712.335358	G	<b>791.404630</b>	396.205953	774.378081	387.692679	773.394065	387.200671	7
13	1538.726769	769.867023	1521.700220	761.353748	1520.716204	760.861740	P	<b>734.383166</b>	367.695221	717.356617	359.181947	716.372601	358.689939	6
14	1685.795183	843.401230	1668.768634	834.887955	1667.784618	834.395947	F	<b>637.330402</b>	319.168839	620.303853	310.655565	619.319837	310.163557	5
15	1786.842862	893.925069	1769.816313	885.411795	1768.832297	884.919787	T	<b>490.261988</b>	245.634632	473.235439	237.121358	472.251423	236.629350	4
16	1901.869805	951.438541	1884.843256	942.925266	1883.859240	942.433258	D	<b>389.214309</b>	<b>195.110793</b>	372.187760	186.597518	371.203744	186.105510	3
17	2000.938219	1000.972748	1983.911670	992.459473	1982.927654	991.967465	V	<b>274.187366</b>	137.597321	257.160817	129.084047			2
18							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [HTSVQTTSSGSGPFTDVR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
82.2	2174.042664	-0.008832	<a href="#">HTSVQTTSSGSGPFTDVR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QDGHLWCSTTSNYEQDQK**

Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

Match to Query 48602: 2507.077272 from(836.699700,3+) rtinseconds(1804) index(30627)

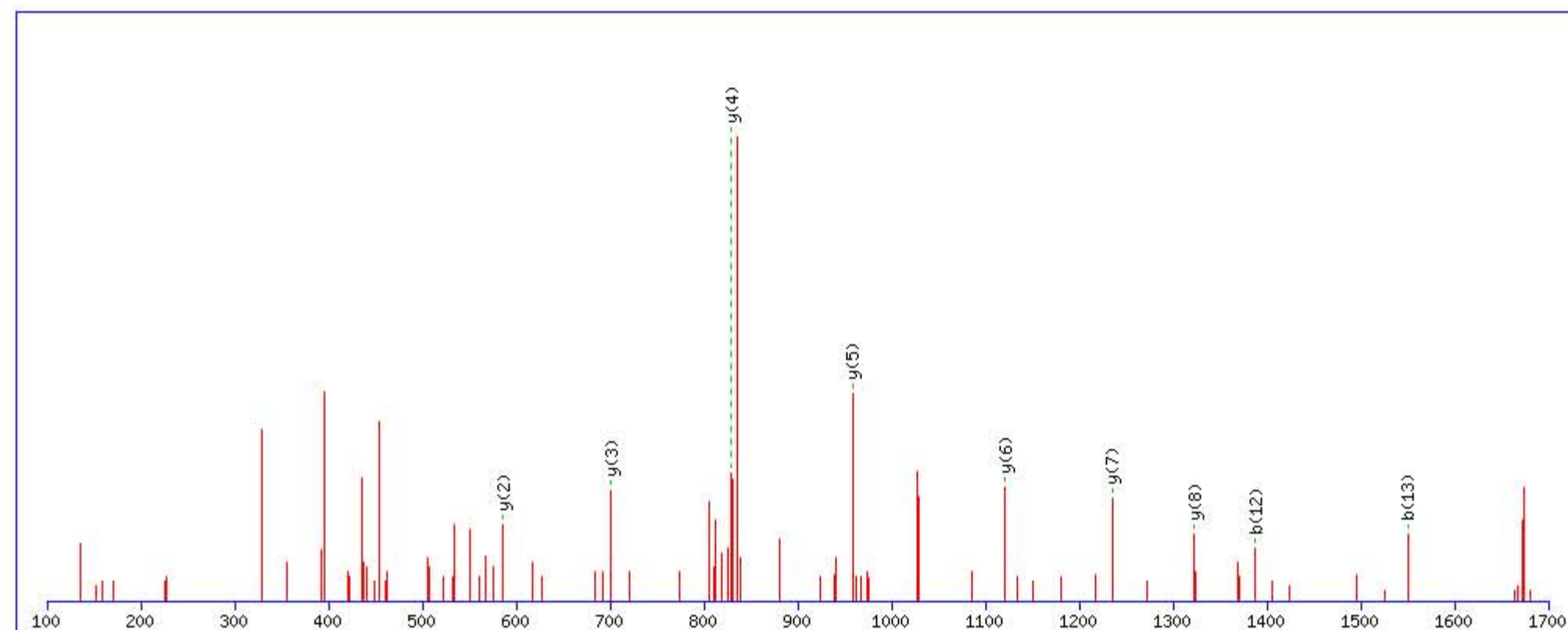
Title: Locus:1.1.1.3291.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2507.084564

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

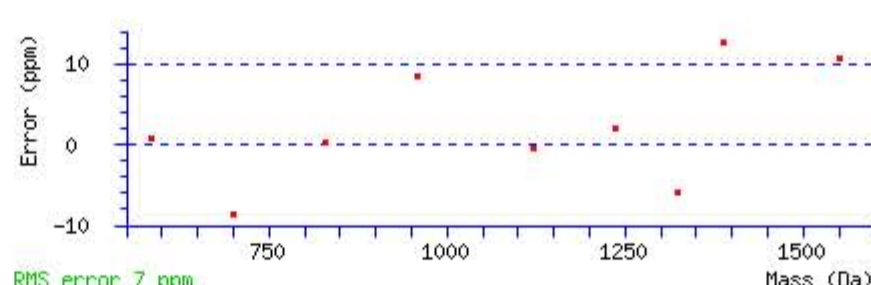
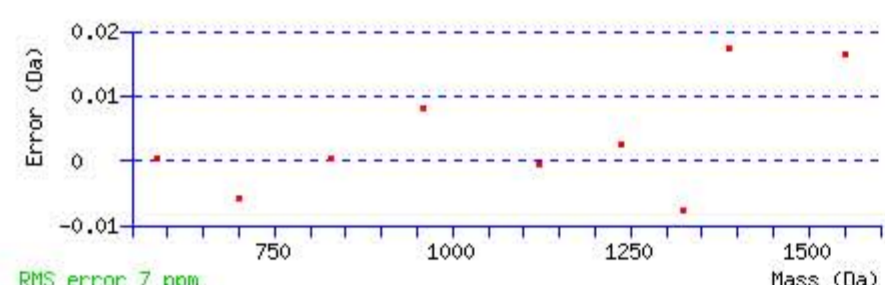
Variable modifications:

Q17 : Biotin:Thermo-21345 (Q)

Ions Score: 34 Expect: 0.0014

Matches : 9/198 fragment ions using 16 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.065854	65.036565	112.039305	56.523291			Q							18
2	244.092797	122.550037	227.066248	114.036762	226.082232	113.544754	D	2380.033259	1190.520267	2363.006710	1182.006993	2362.022694	1181.514985	17
3	301.114261	151.060768	284.087712	142.547494	283.103696	142.055486	G	2265.006316	1133.006796	2247.979767	1124.493521	2246.995751	1124.001513	16
4	438.173173	219.590224	421.146624	211.076950	420.162608	210.584942	H	2207.984852	1104.496064	2190.958303	1095.982789	2189.974287	1095.490781	15
5	551.257237	276.132257	534.230688	267.618982	533.246672	267.126974	L	2070.925940	1035.966608	2053.899391	1027.453333	2052.915375	1026.961325	14
6	737.336550	369.171913	720.310001	360.658639	719.325985	360.166631	W	1957.841876	979.424576	1940.815327	970.911302	1939.831311	970.419294	13
7	897.367199	449.187238	880.340650	440.673963	879.356634	440.181955	C	1771.762563	886.384920	1754.736014	877.871645	1753.751998	877.379637	12
8	984.399227	492.703252	967.372678	484.189977	966.388662	483.697969	S	1611.731914	806.369595	1594.705365	797.856321	1593.721349	797.364313	11
9	1085.446906	543.227091	1068.420357	534.713817	1067.436341	534.221808	T	1524.699886	762.853581	1507.673337	754.340307	1506.689321	753.848299	10
10	1186.494585	593.750930	1169.468036	585.237656	1168.484020	584.745648	T	1423.652207	712.329742	1406.625658	703.816467	1405.641642	703.324459	9
11	1273.526613	637.266945	1256.500064	628.753670	1255.516048	628.261662	S	<b>1322.604528</b>	661.805902	1305.577979	653.292628	1304.593963	652.800620	8
12	<b>1387.569540</b>	694.288408	1370.542991	685.775134	1369.558975	685.283125	N	<b>1235.572500</b>	618.289888	1218.545951	609.776614	1217.561935	609.284606	7
13	<b>1550.632869</b>	775.820073	1533.606320	767.306798	1532.622304	766.814790	Y	<b>1121.529573</b>	561.268425	1104.503024	552.755150	1103.519008	552.263142	6
14	1679.675462	840.341369	1662.648913	831.828095	1661.664897	831.336086	E	<b>958.466244</b>	479.736760	941.439695	471.223486	940.455679	470.731478	5
15	1807.734040	904.370658	1790.707491	895.857384	1789.723475	895.365376	Q	<b>829.423651</b>	415.215464	812.397102	406.702189	811.413086	406.210181	4
16	1922.760983	961.884130	1905.734434	953.370855	1904.750418	952.878847	D	<b>701.365073</b>	351.186175	684.338524	342.672900	683.354508	342.180892	3
17	2361.986309	1181.496792	2344.959760	1172.983518	2343.975744	1172.491510	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
18							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **QDGHLWCSTTSNYEQDQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
34.5	2507.084564	-0.007292	<a href="#">QDGHLWCSTTSNYEQDQK</a>
16.7	2507.084564	-0.007292	<a href="#">QDGHLWCSTTSNYEQDQK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **RPGGEPSPGTTGQSYNQYSQR**

Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

Match to Query 50403: 2706.237522 from(903.086450,3+) rtinseconds(1560) index(29154)

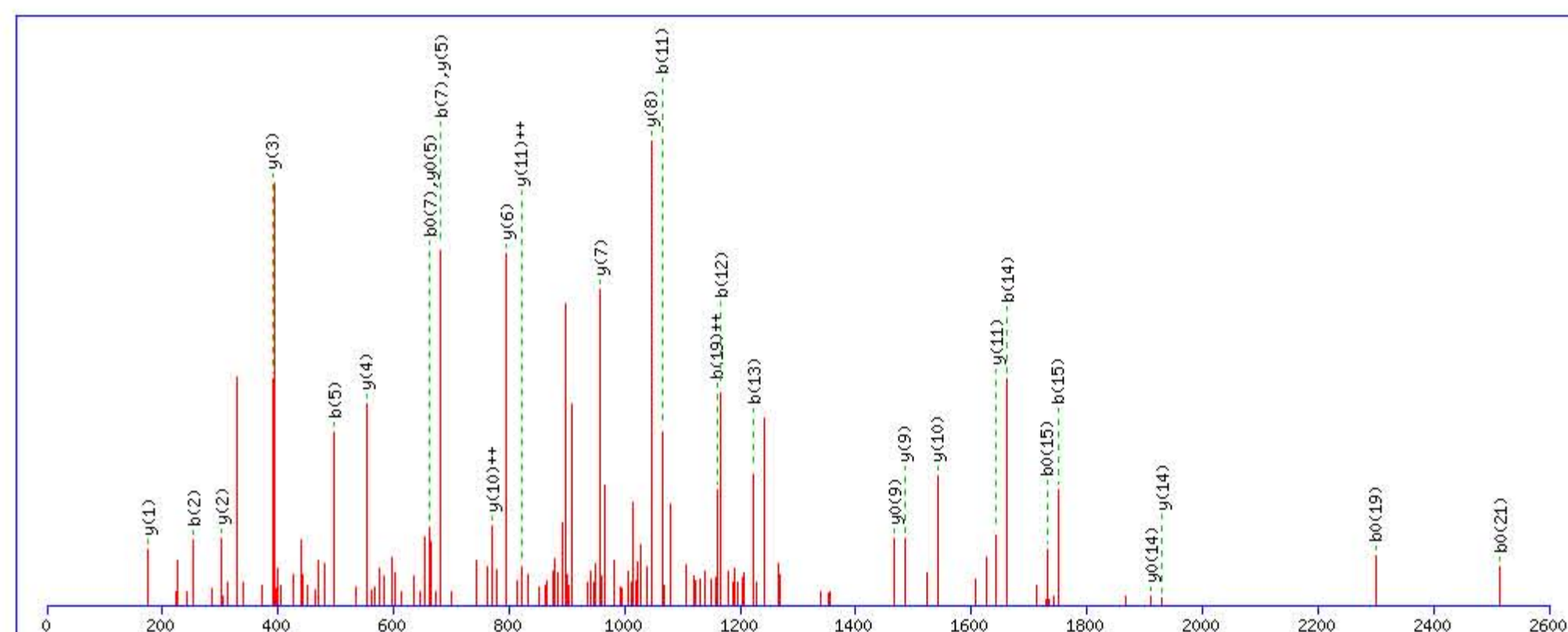
Title: Locus:1.1.1.3206.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2706.245621

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

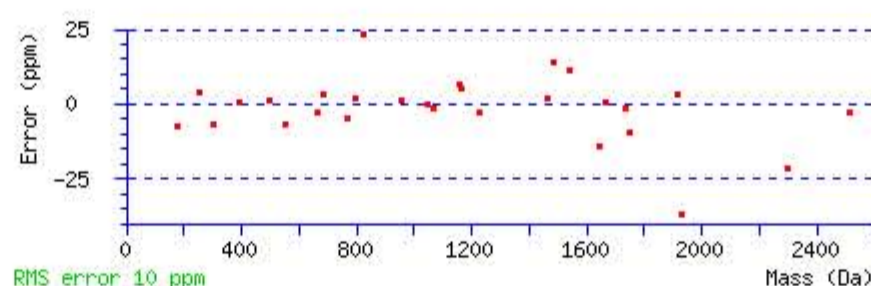
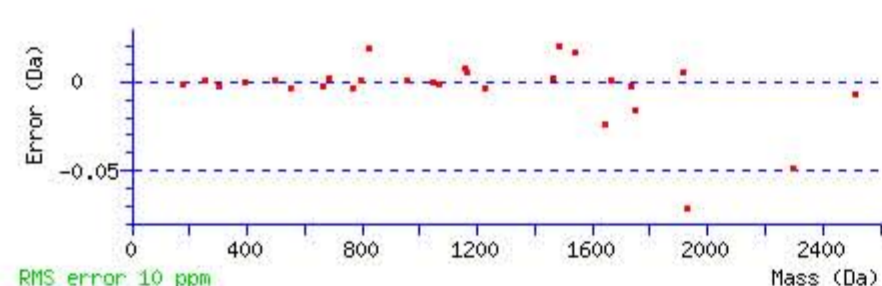
Variable modifications:

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 87 Expect: 2.3e-008

Matches : 30/240 fragment ions using 36 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	157.108387	79.057831	140.081838	70.544557			R							22
2	<b>254.161151</b>	127.584213	237.134602	119.070939			P	2551.151795	1276.079535	2534.125246	1267.566261	2533.141230	1267.074253	21
3	311.182615	156.094945	294.156066	147.581671			G	2454.099031	1227.553153	2437.072482	1219.039879	2436.088466	1218.547871	20
4	368.204079	184.605677	351.177530	176.092403			G	2397.077567	1199.042421	2380.051018	1190.529147	2379.067002	1190.037139	19
5	<b>497.246672</b>	249.126974	480.220123	240.613700	479.236107	240.121692	E	2340.056103	1170.531689	2323.029554	1162.018415	2322.045538	1161.526407	18
6	594.299436	297.653356	577.272887	289.140082	576.288871	288.648074	P	2211.013510	1106.010393	2193.986961	1097.497118	2193.002945	1097.005110	17
7	<b>681.331464</b>	341.169370	664.304915	332.656095	<b>663.320899</b>	332.164087	S	2113.960746	1057.484011	2096.934197	1048.970736	2095.950181	1048.478728	16
8	778.384228	389.695752	761.357679	381.182478	760.373663	380.690470	P	2026.928718	1013.967997	2009.902169	1005.454723	2008.918153	1004.962715	15
9	907.426821	454.217049	890.400272	445.703774	889.416256	445.211766	E	<b>1929.875954</b>	965.441615	1912.849405	956.928341	<b>1911.865389</b>	956.436333	14
10	964.448285	482.727781	947.421736	474.214506	946.437720	473.722498	G	1800.833361	900.920319	1783.806812	892.407044	1782.822796	891.915036	13
11	<b>1065.495964</b>	533.251620	1048.469415	524.738346	1047.485399	524.246337	T	1743.811897	872.409587	1726.785348	863.896312	1725.801332	863.404304	12
12	<b>1166.543643</b>	583.775460	1149.517094	575.262185	1148.533078	574.770177	T	<b>1642.764218</b>	<b>821.885747</b>	1625.737669	813.372473	1624.753653	812.880465	11
13	<b>1223.565107</b>	612.286191	1206.538558	603.772917	1205.554542	603.280909	G	<b>1541.716539</b>	<b>771.361908</b>	1524.689990	762.848633	1523.705974	762.356625	10
14	<b>1662.790433</b>	831.898854	1645.763884	823.385580	1644.779868	822.893572	Q	<b>1484.695075</b>	742.851176	1467.668526	734.337901	<b>1466.684510</b>	733.845893	9
15	<b>1749.822461</b>	875.414869	1732.795912	866.901594	<b>1731.811896</b>	866.409586	S	<b>1045.469749</b>	523.238513	1028.443200	514.725238	1027.459184	514.233230	8
16	1912.885790	956.946533	1895.859241	948.433259	1894.875225	947.941251	Y	<b>958.437721</b>	479.722499	941.411172	471.209224	940.427156	470.717216	7
17	2026.928717	1013.967997	2009.902168	1005.454722	2008.918152	1004.962714	N	<b>795.374392</b>	398.190834	778.347843	389.677560	777.363827	389.185552	6
18	2154.987295	1077.997285	2137.960746	1069.484011	2136.976730	1068.992003	Q	<b>681.331465</b>	341.169371	664.304916	332.656096	<b>663.320900</b>	332.164088	5
19	2318.050624	<b>1159.528950</b>	2301.024075	1151.015675	<b>2300.040059</b>	1150.523667	Y	<b>553.272887</b>	277.140082	536.246338	268.626807	535.262322	268.134799	4
20	2405.082652	1203.044964	2388.056103	1194.531689	2387.072087	1194.039681	S	<b>390.209558</b>	195.608417	373.183009	187.095143	372.198993	186.603135	3
21	2533.141230	1267.074253	2516.114681	1258.560978	<b>2515.130665</b>	1258.068971	Q	<b>303.177530</b>	152.092403	286.150981	143.579129			2
22							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **RPGGEPSPGTTGQSYNQYSQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
87.1	2706.245621	-0.008099	<a href="#">RPGGEPSPGTTGQSYNQYSQR</a>
58.5	2706.245621	-0.008099	<a href="#">RPGGEPSPGTTGQSYNQYSQR</a>
38.3	2706.245621	-0.008099	<a href="#">RPGGEPSPGTTGQSYNQYSQR</a>

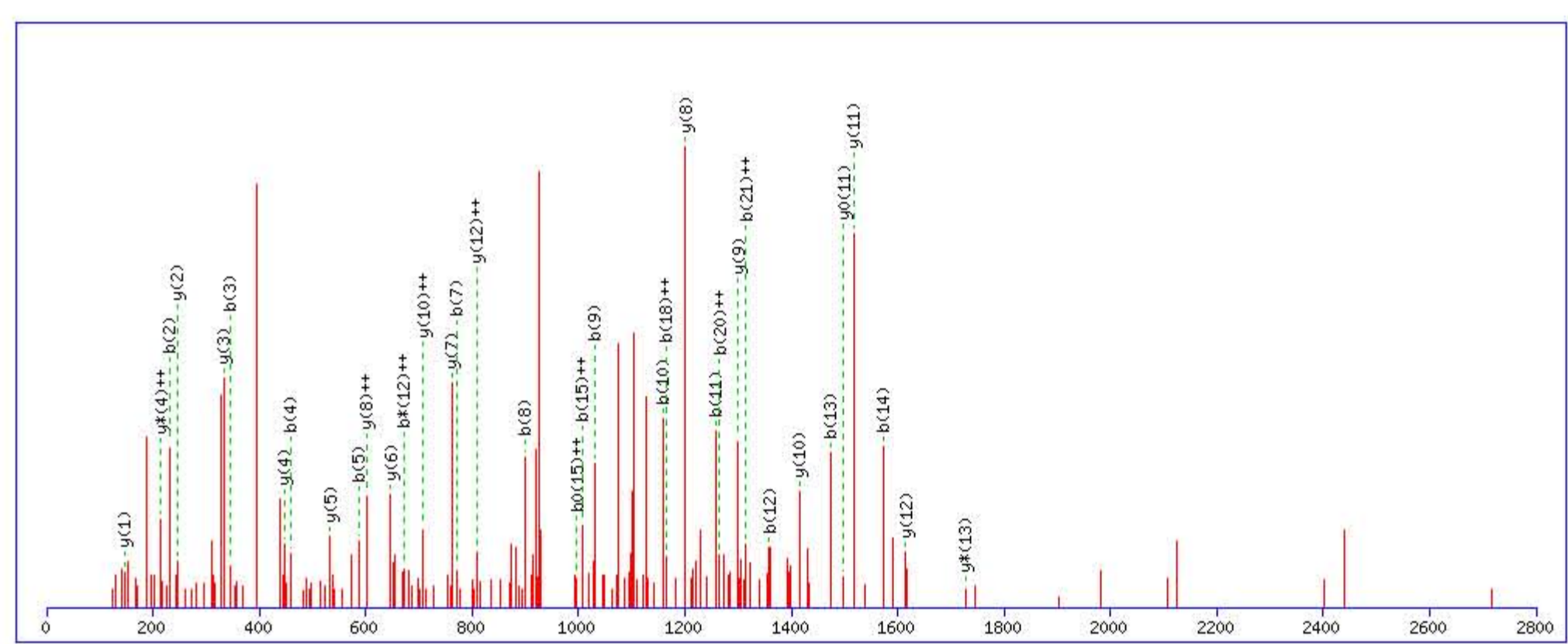
**MASCOT** Mascot Search Results

**Peptide View**

MS/MS Fragmentation of **TEIDKPSQM<sup>Q</sup>VTDVQDNSISVK**  
 Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

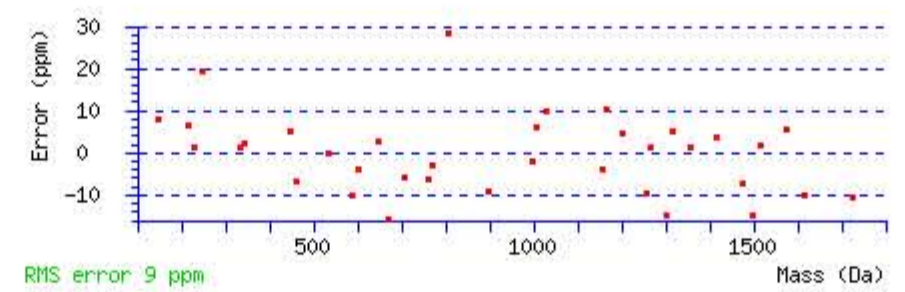
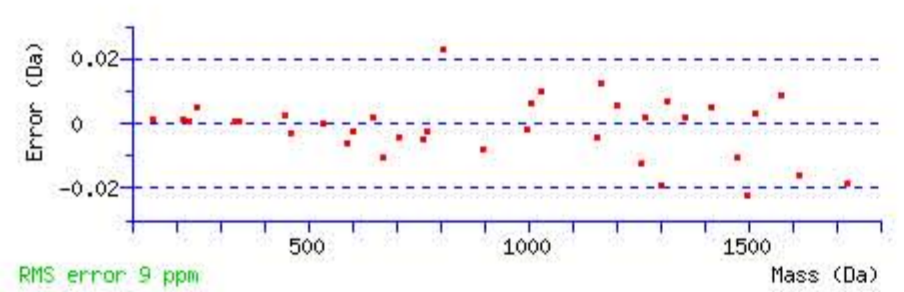
Match to Query 51217: 2772.363312 from(925.128380,3+) rtinseconds(1982) index(31727)  
 Title: Locus:1.1.1.3353.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2772.367386  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q15 : Biotin:Thermo-21345 (Q)  
 Ions Score: 69 Expect: 3.7e-006  
 Matches : 36/240 fragment ions using 84 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							22
2	<b>231.097548</b>	116.052412			213.086983	107.047130	E	2672.326980	1336.667128	2655.300431	1328.153854	2654.316415	1327.661846	21
3	<b>344.181612</b>	172.594444			326.171047	163.589162	I	2543.284387	1272.145832	2526.257838	1263.632557	2525.273822	1263.140549	20
4	<b>459.208555</b>	230.107916			441.197990	221.102633	D	2430.200323	1215.603799	2413.173774	1207.090525	2412.189758	1206.598517	19
5	<b>587.303518</b>	294.155397	570.276969	285.642123	569.292953	285.150115	K	2315.173380	1158.090328	2298.146831	1149.577053	2297.162815	1149.085046	18
6	684.356282	342.681779	667.329733	334.168505	666.345717	333.676497	P	2187.078417	1094.042847	2170.051868	1085.529572	2169.067852	1085.037564	17
7	<b>771.388310</b>	386.197793	754.361761	377.684519	753.377745	377.192511	S	2090.025653	1045.516465	2072.999104	1037.003190	2072.015088	1036.511182	16
8	<b>899.446888</b>	450.227082	882.420339	441.713808	881.436323	441.221800	Q	2002.993625	1002.000451	1985.967076	993.487176	1984.983060	992.995168	15
9	<b>1030.487373</b>	515.747325	1013.460824	507.234050	1012.476808	506.742042	M	1874.935047	937.971162	1857.908498	929.457887	1856.924482	928.965879	14
10	<b>1158.545951</b>	579.776614	1141.519402	571.263339	1140.535386	570.771331	Q	1743.894562	872.450919	<b>1726.868013</b>	863.937645	1725.883997	863.445637	13
11	<b>1257.614365</b>	629.310821	1240.587816	620.797546	1239.603800	620.305538	V	<b>1615.835984</b>	<b>808.421630</b>	1598.809435	799.908356	1597.825419	799.416348	12
12	<b>1358.662044</b>	679.834660	1341.635495	<b>671.321386</b>	1340.651479	670.829378	T	<b>1516.767570</b>	758.887423	1499.741021	750.374149	<b>1498.757005</b>	749.882141	11
13	<b>1473.688987</b>	737.348132	1456.662438	728.834857	1455.678422	728.342849	D	<b>1415.719891</b>	<b>708.363584</b>	1398.693342	699.850309	1397.709326	699.358301	10
14	<b>1572.757401</b>	786.882339	1555.730852	778.369064	1554.746836	777.877056	V	<b>1300.692948</b>	650.850112	1283.666399	642.336838	1282.682383	641.844830	9
15	2011.982727	<b>1006.495002</b>	1994.956178	997.981727	1993.972162	<b>997.489719</b>	Q	<b>1201.624534</b>	<b>601.315905</b>	1184.597985	592.802631	1183.613969	592.310623	8
16	2127.009670	1064.008473	2109.983121	1055.495199	2108.999105	1055.003191	D	<b>762.399208</b>	381.703242	745.372659	373.189968	744.388643	372.697960	7
17	2241.052597	1121.029937	2224.026048	1112.516662	2223.042032	1112.024654	N	<b>647.372265</b>	324.189771	630.345716	315.676496	629.361700	315.184488	6
18	2328.084625	<b>1164.545951</b>	2311.058076	1156.032676	2310.074060	1155.540668	S	<b>533.329338</b>	267.168307	516.302789	258.655033	515.318773	258.163025	5
19	2441.168689	1221.087983	2424.142140	1212.574708	2423.158124	1212.082700	I	<b>446.297310</b>	223.652293	429.270761	<b>215.139019</b>	428.286745	214.647011	4
20	2528.200717	<b>1264.603997</b>	2511.174168	1256.090722	2510.190152	1255.598714	S	<b>333.213246</b>	167.110261	316.186697	158.596986	315.202681	158.104978	3
21	2627.269131	<b>1314.138204</b>	2610.242582	1305.624929	2609.258566	1305.132921	V	<b>246.181218</b>	123.594247	229.154669	115.080972			2
22							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [TEIDKPSQM<sup>Q</sup>VTDVQDNSISVK](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
68.7	2772.367386	-0.004074	<a href="#">TEIDKPSQM<sup>Q</sup>VTDVQDNSISVK</a>
17.0	2772.367386	-0.004074	<a href="#">TEIDKPSQM<sup>Q</sup>VTDVQDNSISVK</a>
10.6	2772.367386	-0.004074	<a href="#">TEIDKPSQM<sup>Q</sup>VTDVQDNSISVK</a>

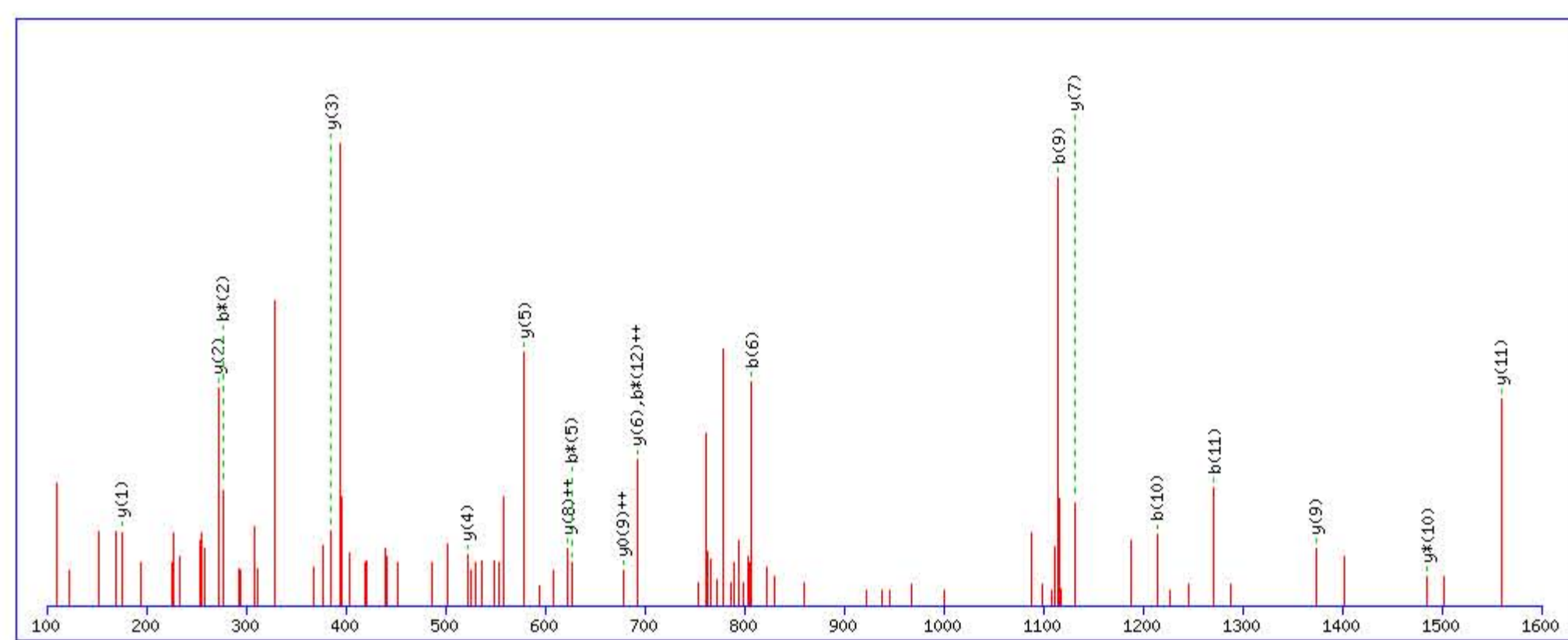
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **HRPRPYPPNVGEEIQIGHIPR**  
 Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

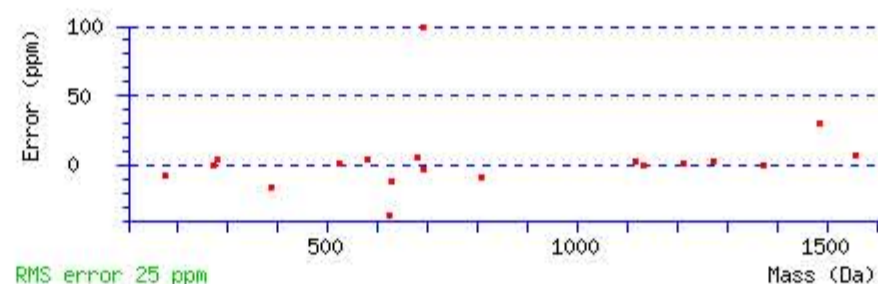
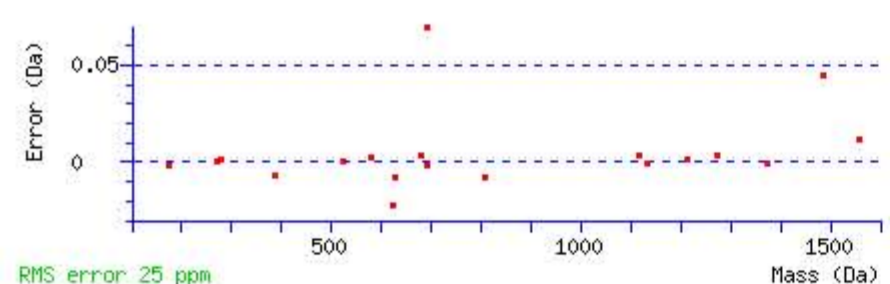
Match to Query 51224: 2772.466770 from(555.500630,5+) rtinseconds(1788) index(30523)  
 Title: Locus:1.1.1.3286.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2772.475815  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q15 : Biotin:Thermo-21345 (Q)  
 Ions Score: 25 Expect: 0.0051  
 Matches : 19/200 fragment ions using 51 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							21
2	294.167299	147.587288	277.140750	139.074013			R	2636.424208	1318.715742	2619.397659	1310.202467	2618.413643	1309.710459	20
3	391.220063	196.113670	374.193514	187.600395			P	2480.323097	1240.665186	2463.296548	1232.151912	2462.312532	1231.659904	19
4	547.321174	274.164225	530.294625	265.650951			R	2383.270333	1192.138804	2366.243784	1183.625530	2365.259768	1183.133522	18
5	644.373938	322.690607	627.347389	314.177333			P	2227.169222	1114.088249	2210.142673	1105.574974	2209.158657	1105.082966	17
6	807.437267	404.222272	790.410718	395.708997			Y	2130.116458	1065.561867	2113.089909	1057.048592	2112.105893	1056.556584	16
7	904.490031	452.748654	887.463482	444.235379			P	1967.053129	984.030203	1950.026580	975.516928	1949.042564	975.024920	15
8	1001.542795	501.275036	984.516246	492.761761			P	1870.000365	935.503821	1852.973816	926.990546	1851.989800	926.498538	14
9	1115.585722	558.296499	1098.559173	549.783225			N	1772.947601	886.977439	1755.921052	878.464164	1754.937036	877.972156	13
10	1214.654136	607.830706	1197.627587	599.317432			V	1658.904674	829.955975	1641.878125	821.442701	1640.894109	820.950693	12
11	1271.675600	636.341438	1254.649051	627.828164			G	1559.836260	780.421768	1542.809711	771.908494	1541.825695	771.416486	11
12	1400.718193	700.862735	1383.691644	692.349460	1382.707628	691.857452	E	1502.814796	751.911036	1485.788247	743.397762	1484.804231	742.905754	10
13	1529.760786	765.384031	1512.734237	756.870757	1511.750221	756.378749	E	1373.772203	687.389740	1356.745654	678.876465	1355.761638	678.384457	9
14	1642.844850	821.926063	1625.818301	813.412789	1624.834285	812.920781	I	1244.729610	622.868443	1227.703061	614.355169			8
15	2082.070176	1041.538726	2065.043627	1033.025451	2064.059611	1032.533444	Q	1131.645546	566.326411	1114.618997	557.813137			7
16	2195.154240	1098.080758	2178.127691	1089.567484	2177.143675	1089.075476	I	692.420220	346.713748	675.393671	338.200474			6
17	2252.175704	1126.591490	2235.149155	1118.078215	2234.165139	1117.586208	G	579.336156	290.171716	562.309607	281.658442			5
18	2389.234616	1195.120946	2372.208067	1186.607671	2371.224051	1186.115664	H	522.314692	261.660984	505.288143	253.147710			4
19	2502.318680	1251.662978	2485.292131	1243.149704	2484.308115	1242.657696	I	385.255780	193.131528	368.229231	184.618254			3
20	2599.371444	1300.189360	2582.344895	1291.676086	2581.360879	1291.184078	P	272.171716	136.589496	255.145167	128.076221			2
21							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **HRPRPYPPNVGEEIQIGHIPR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
25.3	2772.475815	-0.009045	<a href="#">HRPRPYPPNVGEEIQIGHIPR</a>
0.8	2772.429306	0.037464	<a href="#">EKHLAILKENNISEEVEAPEVEPR</a>

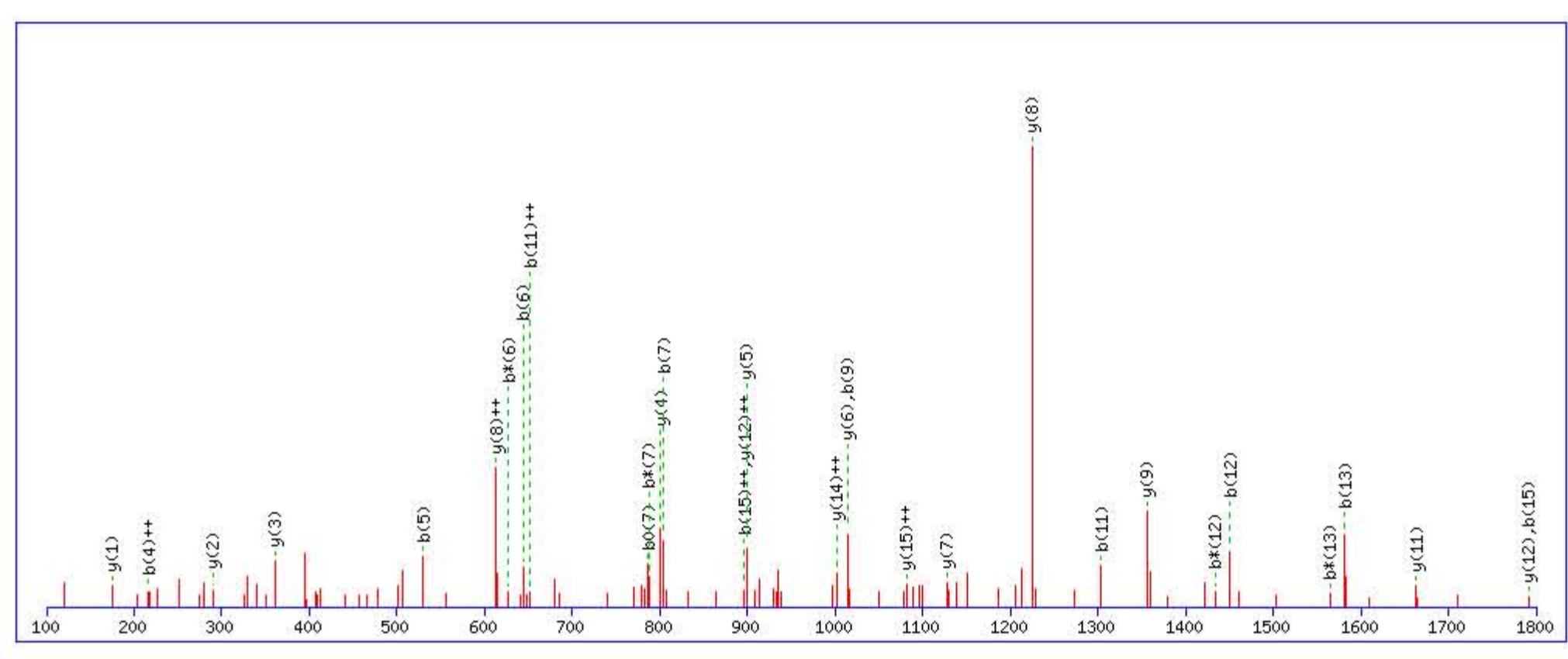
**Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **TNTNVNCPICFMPLDVQADR**  
 Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

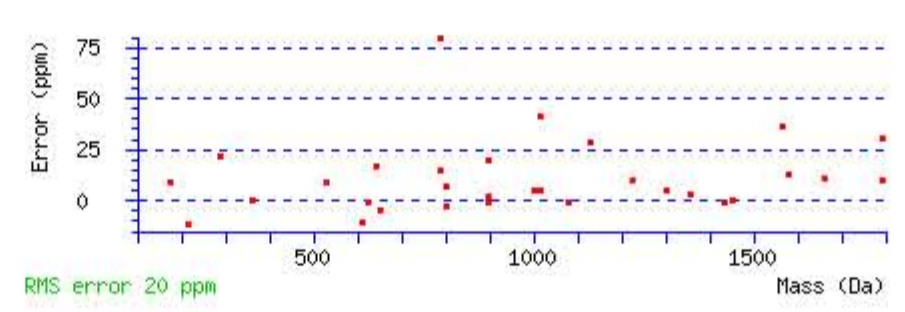
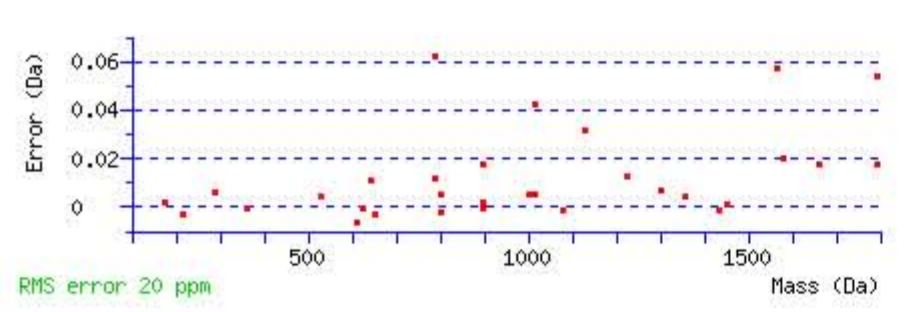
Match to Query 51583: 2804.287332 from(935.769720,3+) rtinseconds(2704) index(35859)  
 Title: Locus:1.1.1.3604.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2804.275421  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q18 : Biotin:Thermo-21345 (Q)  
 Ions Score: 56 Expect: 3.2e-005  
 Matches : 32/236 fragment ions using 63 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							21
2	<b>216.097882</b>	108.552579	199.071333	100.039305	198.087317	99.547296	N	2704.235012	1352.621144	2687.208463	1344.107869	2686.224447	1343.615861	20
3	317.145561	159.076418	300.119012	150.563144	299.134996	150.071136	T	2590.192085	1295.599680	2573.165536	1287.086406	2572.181520	1286.594398	19
4	431.188488	<b>216.097882</b>	414.161939	207.584608	413.177923	207.092600	N	2489.144406	1245.075841	2472.117857	1236.562566	2471.133841	1236.070558	18
5	<b>530.256902</b>	265.632089	513.230353	257.118815	512.246337	256.626807	V	2375.101479	1188.054377	2358.074930	1179.541103	2357.090914	1179.049095	17
6	<b>644.299829</b>	322.653553	<b>627.273280</b>	314.140278	626.289264	313.648270	N	2276.033065	1138.520170	2259.006516	1130.006896	2258.022500	1129.514888	16
7	<b>804.330478</b>	402.668877	<b>787.303929</b>	394.155603	<b>786.319913</b>	393.663595	C	2161.990138	<b>1081.498707</b>	2144.963589	1072.985432	2143.979573	1072.493424	15
8	901.383242	451.195259	884.356693	442.681985	883.372677	442.189977	P	2001.959489	<b>1001.483383</b>	1984.932940	992.970108	1983.948924	992.478100	14
9	<b>1014.467306</b>	507.737291	997.440757	499.224017	996.456741	498.732009	I	1904.906725	952.957001	1887.880176	944.443726	1886.896160	943.951718	13
10	1143.509899	572.258588	1126.483350	563.745313	1125.499334	563.253305	E	<b>1791.822661</b>	<b>896.414969</b>	1774.796112	887.901694	1773.812096	887.409686	12
11	<b>1303.540548</b>	<b>652.273912</b>	1286.513999	643.760638	1285.529983	643.268630	C	<b>1662.780068</b>	831.893672	1645.753519	823.380398	1644.769503	822.888390	11
12	<b>1450.608962</b>	725.808119	<b>1433.582413</b>	717.294845	1432.598397	716.802837	F	1502.749419	751.878348	1485.722870	743.365073	1484.738854	742.873065	10
13	<b>1581.649447</b>	791.328362	<b>1564.622898</b>	782.815087	1563.638882	782.323079	M	<b>1355.681005</b>	678.344141	1338.654456	669.830866	1337.670440	669.338858	9
14	1678.702211	839.854744	1661.675662	831.341469	1660.691646	830.849461	P	<b>1224.640520</b>	<b>612.823898</b>	1207.613971	604.310624	1206.629955	603.818616	8
15	<b>1791.786275</b>	<b>896.396776</b>	1774.759726	887.883501	1773.775710	887.391493	L	<b>1127.587756</b>	564.297516	1110.561207	555.784242	1109.577191	555.292234	7
16	1906.813218	953.910247	1889.786669	945.396973	1888.802653	944.904965	D	<b>1014.503692</b>	507.755484	997.477143	499.242210	996.493127	498.750202	6
17	2005.881632	1003.444454	1988.855083	994.931180	1987.871067	994.439172	V	<b>899.476749</b>	450.242013	882.450200	441.728738	881.466184	441.236730	5
18	2445.106958	1223.057117	2428.080409	1214.543843	2427.096393	1214.051835	Q	<b>800.408335</b>	400.707806	783.381786	392.194531	782.397770	391.702523	4
19	2516.144072	1258.575674	2499.117523	1250.062400	2498.133507	1249.570392	A	<b>361.183009</b>	181.095142	344.156460	172.581868	343.172444	172.089860	3
20	2631.171015	1316.089146	2614.144466	1307.575871	2613.160450	1307.083863	D	<b>290.145895</b>	145.576585	273.119346	137.063311	272.135330	136.571303	2
21							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **TNTNVNCPICFMPLDVQADR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
55.7	2804.275421	0.011911	<a href="#">TNTNVNCPICFMPLDVQADR</a>
24.3	2804.307587	-0.020255	<a href="#">DYAGVFSDAGLIFTSSSGQQAQR</a>
10.0	2804.307587	-0.020255	<a href="#">DYAGVFSDAGLIFTSSSGQQAQR</a>
5.3	2804.307587	-0.020255	<a href="#">DYAGVFSDAGLIFTSSSGQQAQR</a>



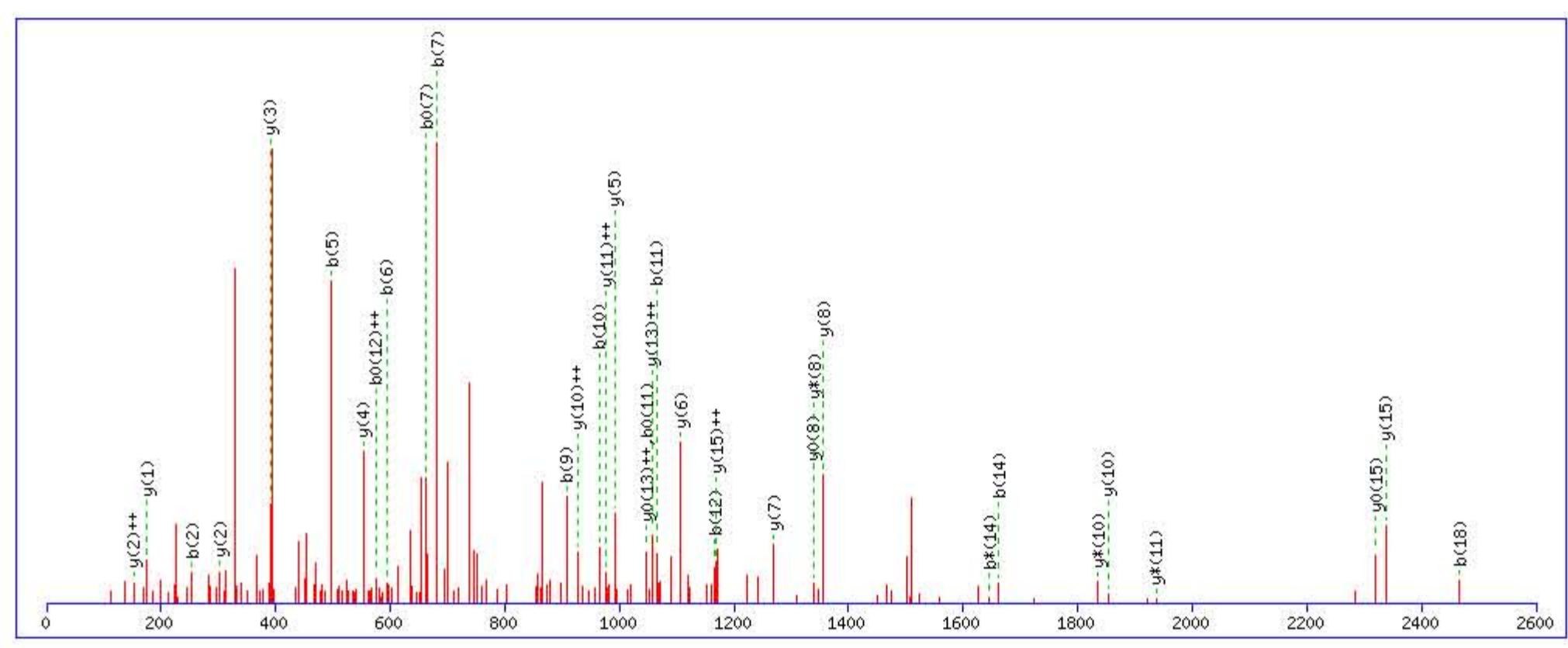
# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **RPGGEPSPGTTGQSYNQYSQR**  
 Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

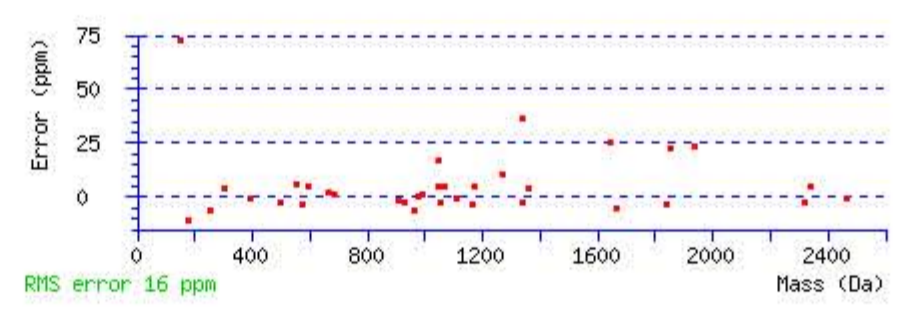
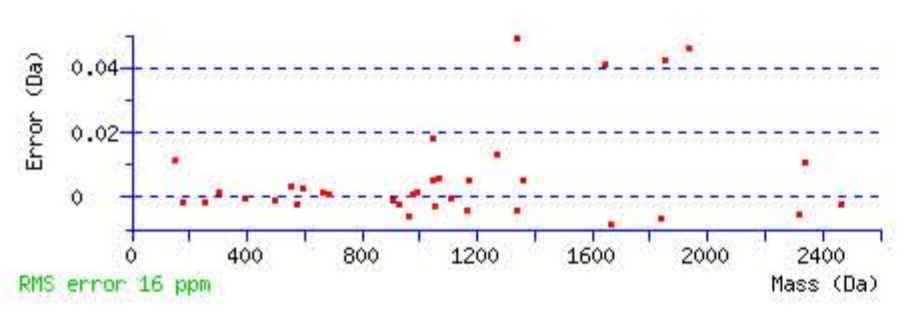
Match to Query 54131: 3017.406816 from(755.358980,4+) rtinseconds(1814) index(30696)  
 Title: Locus:1.1.1.3295.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3017.412369  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q14 : Biotin:Thermo-21345 (Q)  
 Q18 : Biotin:Thermo-21345 (Q)  
 Ions Score: 55 Expect: 4.9e-005  
 Matches : 35/240 fragment ions using 71 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	157.108387	79.057831	140.081838	70.544557			R							22
2	<b>254.161151</b>	127.584213	237.134602	119.070939			P	2862.318543	1431.662909	2845.291994	1423.149635	2844.307978	1422.657627	21
3	311.182615	156.094945	294.156066	147.581671			G	2765.265779	1383.136527	2748.239230	1374.623253	2747.255214	1374.131245	20
4	368.204079	184.605677	351.177530	176.092403			G	2708.244315	1354.625795	2691.217766	1346.112521	2690.233750	1345.620513	19
5	<b>497.246672</b>	249.126974	480.220123	240.613700	479.236107	240.121692	E	2651.222851	1326.115063	2634.196302	1317.601789	2633.212286	1317.109781	18
6	<b>594.299436</b>	297.653356	577.272887	289.140082	576.288871	288.648074	P	2522.180258	1261.593767	2505.153709	1253.080492	2504.169693	1252.588484	17
7	<b>681.331464</b>	341.169370	664.304915	332.656095	<b>663.320899</b>	332.164087	S	2425.127494	1213.067385	2408.100945	1204.554110	2407.116929	1204.062102	16
8	778.384228	389.695752	761.357679	381.182478	760.373663	380.690470	P	<b>2338.095466</b>	<b>1169.551371</b>	2321.068917	1161.038096	<b>2320.084901</b>	1160.546088	15
9	<b>907.426821</b>	454.217049	890.400272	445.703774	889.416256	445.211766	E	2241.042702	1121.024989	2224.016153	1112.511714	2223.032137	1112.019706	14
10	<b>964.448285</b>	482.727781	947.421736	474.214506	946.437720	473.722498	G	2112.000109	<b>1056.503692</b>	2094.973560	1047.990418	2093.989544	<b>1047.498410</b>	13
11	<b>1065.495964</b>	533.251620	1048.469415	524.738346	<b>1047.485399</b>	524.246337	T	2054.978645	1027.992960	2037.952096	1019.479686	2036.968080	1018.987678	12
12	<b>1166.543643</b>	583.775460	1149.517094	575.262185	1148.533078	<b>574.770177</b>	T	1953.930966	<b>977.469121</b>	<b>1936.904417</b>	968.955847	1935.920401	968.463839	11
13	1223.565107	612.286191	1206.538558	603.772917	1205.554542	603.280909	G	<b>1852.883287</b>	<b>926.945282</b>	<b>1835.856738</b>	918.432007	1834.872722	917.939999	10
14	<b>1662.790433</b>	831.898854	<b>1645.763884</b>	823.385580	1644.779868	822.893572	Q	1795.861823	898.434550	1778.835274	889.921275	1777.851258	889.429267	9
15	1749.822461	875.414869	1732.795912	866.901594	1731.811896	866.409586	S	<b>1356.636497</b>	678.821887	<b>1339.609948</b>	670.308612	<b>1338.625932</b>	669.816604	8
16	1912.885790	956.946533	1895.859241	948.433259	1894.875225	947.941251	Y	<b>1269.604469</b>	635.305873	1252.577920	626.792598	1251.593904	626.300590	7
17	2026.928717	1013.967997	2009.902168	1005.454722	2008.918152	1004.962714	N	<b>1106.541140</b>	553.774208	1089.514591	545.260934	1088.530575	544.768926	6
18	<b>2466.154043</b>	1233.580659	2449.127494	1225.067385	2448.143478	1224.575377	Q	<b>992.498213</b>	496.752745	975.471664	488.239470	974.487648	487.747462	5
19	2629.217372	1315.112324	2612.190823	1306.599049	2611.206807	1306.107041	Y	<b>553.272887</b>	277.140082	536.246338	268.626807	535.262322	268.134799	4
20	2716.249400	1358.628338	2699.222851	1350.115063	2698.238835	1349.623056	S	<b>390.209558</b>	195.608417	373.183009	187.095143	372.198993	186.603135	3
21	2844.307978	1422.657627	2827.281429	1414.144353	2826.297413	1413.652345	Q	<b>303.177530</b>	<b>152.092403</b>	286.150981	143.579129			2
22							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **RPGGEPSPGTTGQSYNQYSQR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
55.3	3017.412369	-0.005553	<a href="#">RPGGEPSPGTTGQSYNQYSQR</a>
47.7	3017.412369	-0.005553	<a href="#">RPGGEPSPGTTGQSYNQYSQR</a>
18.6	3017.412369	-0.005553	<a href="#">RPGGEPSPGTTGQSYNQYSQR</a>

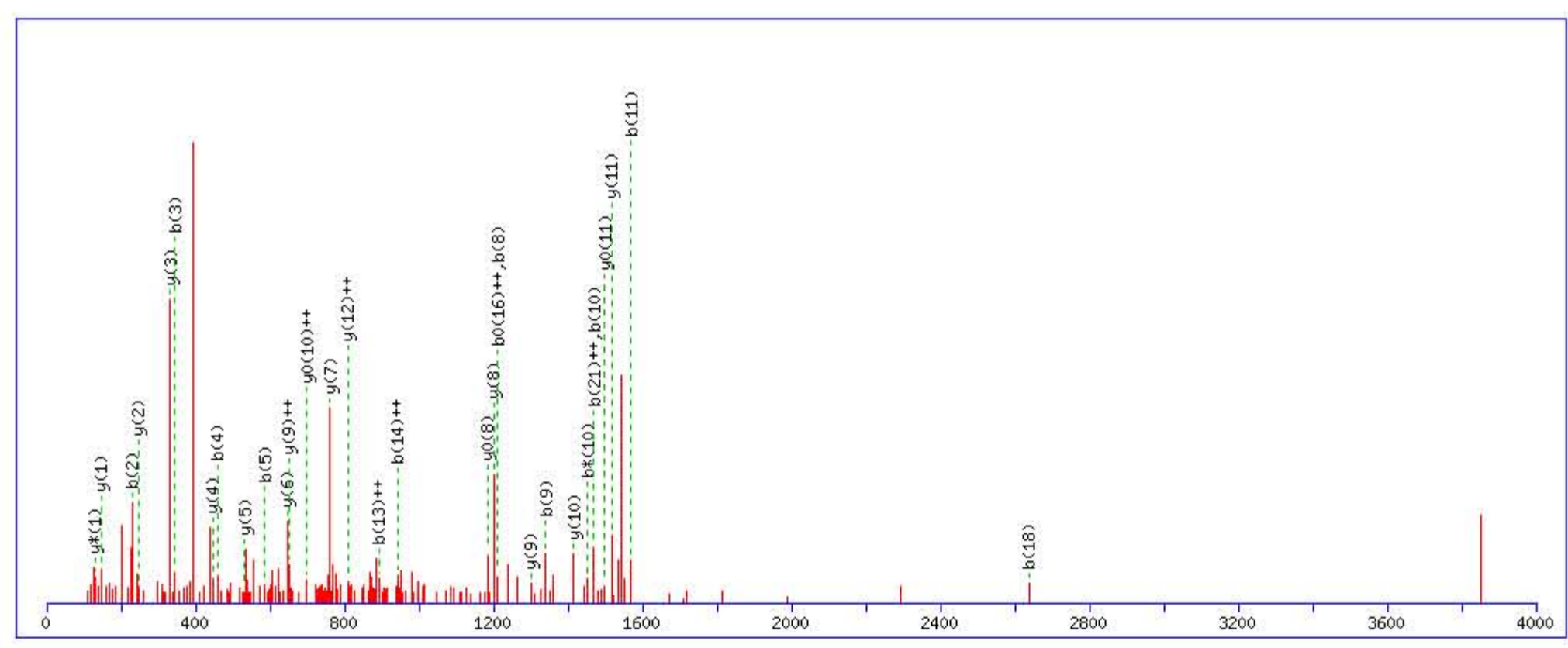
# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **TEIDKPSQMQVTDVQDNSISVK**  
 Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

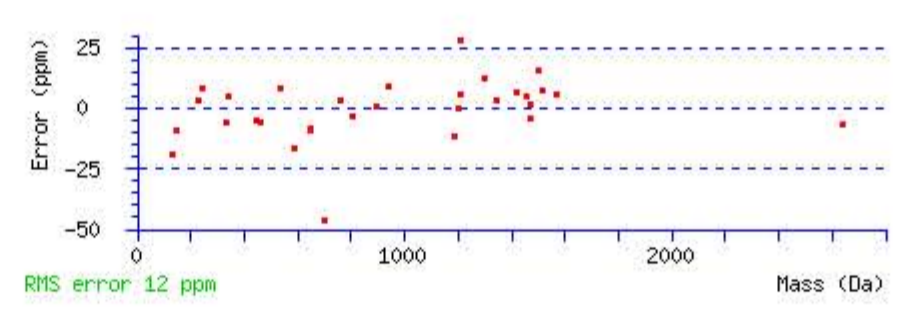
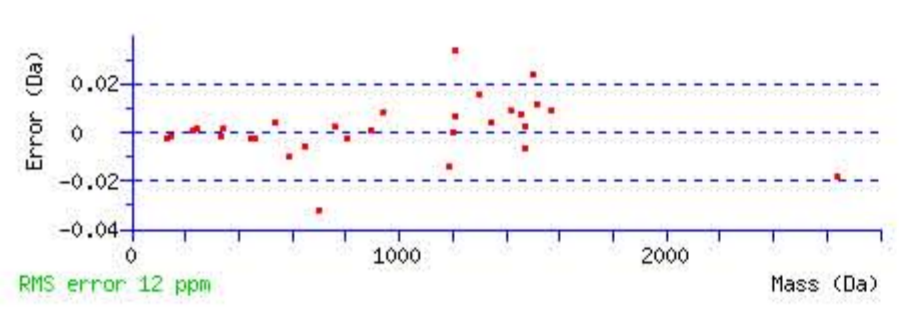
Match to Query 54629: 3083.527736 from(771.889210,4+) rtinseconds(2173) index(32873)  
 Title: Locus:1.1.1.3420.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3083.534134  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q8 : Biotin:Thermo-21345 (Q)  
 Q15 : Biotin:Thermo-21345 (Q)  
 Ions Score: 40 Expect: 0.0027  
 Matches : 31/240 fragment ions using 95 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							22
2	<b>231.097548</b>	116.052412			213.086983	107.047130	E	2983.493728	1492.250502	2966.467179	1483.737228	2965.483163	1483.245220	21
3	<b>344.181612</b>	172.594444			326.171047	163.589162	I	2854.451135	1427.729206	2837.424586	1419.215931	2836.440570	1418.723923	20
4	<b>459.208555</b>	230.107916			441.197990	221.102633	D	2741.367071	1371.187174	2724.340522	1362.673899	2723.356506	1362.181891	19
5	<b>587.303518</b>	294.155397	570.276969	285.642123	569.292953	285.150115	K	2626.340128	1313.673702	2609.313579	1305.160428	2608.329563	1304.668420	18
6	684.356282	342.681779	667.329733	334.168505	666.345717	333.676497	P	2498.245165	1249.626220	2481.218616	1241.112946	2480.234600	1240.620938	17
7	771.388310	386.197793	754.361761	377.684519	753.377745	377.192511	S	2401.192401	1201.099838	2384.165852	1192.586564	2383.181836	1192.094556	16
8	<b>1210.613636</b>	605.810456	1193.587087	597.297182	1192.603071	596.805174	Q	2314.160373	1157.583825	2297.133824	1149.070550	2296.149808	1148.578542	15
9	<b>1341.654121</b>	671.330699	1324.627572	662.817424	1323.643556	662.325416	M	1874.935047	937.971162	1857.908498	929.457887	1856.924482	928.965879	14
10	<b>1469.712699</b>	735.359988	<b>1452.686150</b>	726.846713	1451.702134	726.354705	Q	1743.894562	872.450919	1726.868013	863.937645	1725.883997	863.445637	13
11	<b>1568.781113</b>	784.894195	1551.754564	776.380920	1550.770548	775.888912	V	1615.835984	<b>808.421630</b>	1598.809435	799.908356	1597.825419	799.416348	12
12	1669.828792	835.418034	1652.802243	826.904760	1651.818227	826.412752	T	<b>1516.767570</b>	758.887423	1499.741021	750.374149	<b>1498.757005</b>	749.882141	11
13	1784.855735	<b>892.931506</b>	1767.829186	884.418231	1766.845170	883.926223	D	<b>1415.719891</b>	708.363584	1398.693342	699.850309	1397.709326	<b>699.358301</b>	10
14	1883.924149	<b>942.465713</b>	1866.897600	933.952438	1865.913584	933.460430	V	<b>1300.692948</b>	<b>650.850112</b>	1283.666399	642.336838	1282.682383	641.844830	9
15	2323.149475	1162.078376	2306.122926	1153.565101	2305.138910	1153.073093	Q	<b>1201.624534</b>	601.315905	1184.597985	592.802631	<b>1183.613969</b>	592.310623	8
16	2438.176418	1219.591847	2421.149869	1211.078573	2420.165853	<b>1210.586565</b>	D	<b>762.399208</b>	381.703242	745.372659	373.189968	744.388643	372.697960	7
17	2552.219345	1276.613311	2535.192796	1268.100036	2534.208780	1267.608028	N	<b>647.372265</b>	324.189771	630.345716	315.676496	629.361700	315.184488	6
18	<b>2639.251373</b>	1320.129325	2622.224824	1311.616050	2621.240808	1311.124042	S	<b>533.329338</b>	267.168307	516.302789	258.655033	515.318773	258.163025	5
19	2752.335437	1376.671357	2735.308888	1368.158082	2734.324872	1367.666074	I	<b>446.297310</b>	223.652293	429.270761	215.139019	428.286745	214.647011	4
20	2839.367465	1420.187371	2822.340916	1411.674096	2821.356900	1411.182088	S	<b>333.213246</b>	167.110261	316.186697	158.596986	315.202681	158.104978	3
21	2938.435879	<b>1469.721578</b>	2921.409330	1461.208303	2920.425314	1460.716295	V	<b>246.181218</b>	123.594247	229.154669	115.080972			2
22							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of [TEIDKPSQMQVTDVQDNSISVK](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
40.4	3083.534134	-0.006398	<a href="#">TEIDKPSQMQVTDVQDNSISVK</a>
30.8	3083.534134	-0.006398	<a href="#">TEIDKPSQMQVTDVQDNSISVK</a>
10.4	3083.534134	-0.006398	<a href="#">TEIDKPSQMQVTDVQDNSISVK</a>

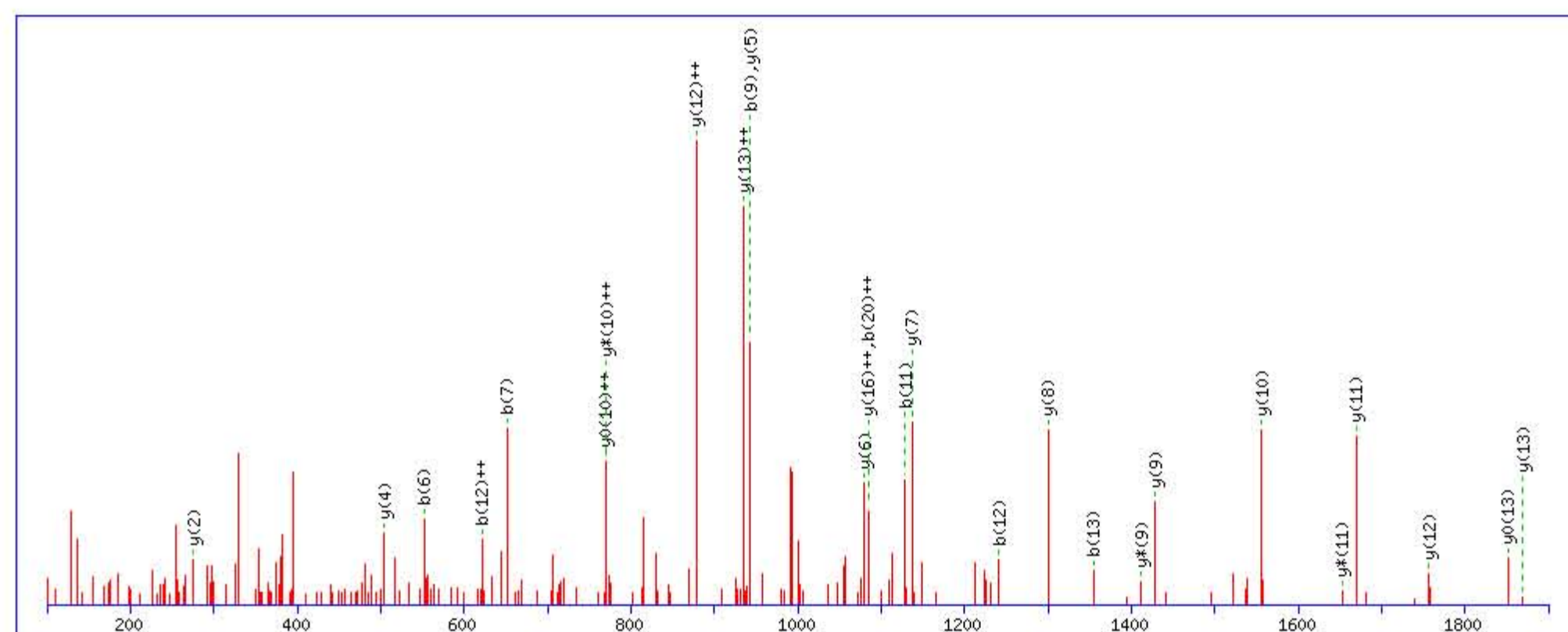
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GLKPGVVYEGQLISIQYGHQEVTR**  
 Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

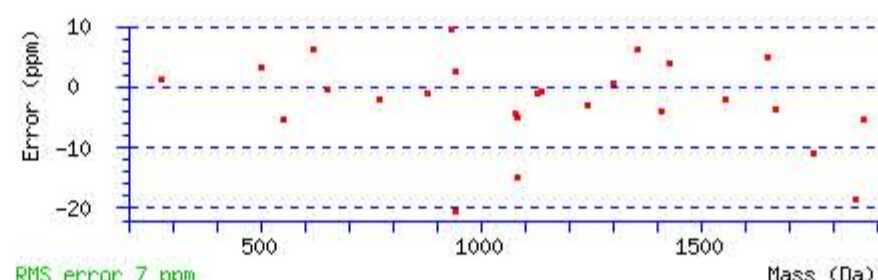
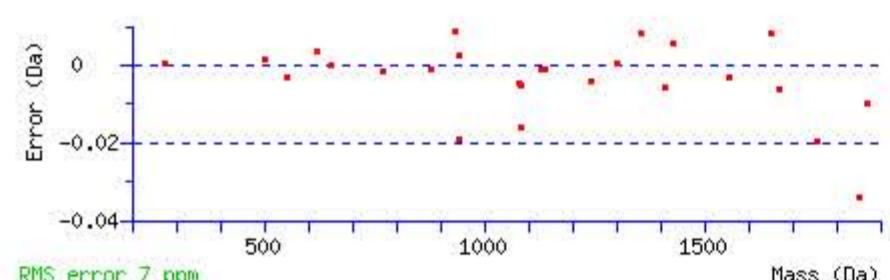
Match to Query 54768: 3109.637496 from(778.416650,4+) rtinseconds(2210) index(33085)  
 Title: Locus:1.1.1.3433.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3109.638275  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q21 : Biotin:Thermo-21345 (Q)  
 Ions Score: 68 Expect: 3.4e-006  
 Matches : 27/266 fragment ions using 36 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							25
2	171.112804	86.060040					L	3053.624092	1527.315684	3036.597543	1518.802409	3035.613527	1518.310401	24
3	299.207767	150.107521	282.181218	141.594247			K	2940.540028	1470.773652	2923.513479	1462.260377	2922.529463	1461.768369	23
4	396.260531	198.633903	379.233982	190.120629			P	2812.445065	1406.726170	2795.418516	1398.212896	2794.434500	1397.720888	22
5	453.281995	227.144635	436.255446	218.631361			G	2715.392301	1358.199788	2698.365752	1349.686514	2697.381736	1349.194506	21
6	<b>552.350409</b>	276.678843	535.323860	268.165568			V	2658.370837	1329.689056	2641.344288	1321.175782	2640.360272	1320.683774	20
7	<b>651.418823</b>	326.213050	634.392274	317.699775			V	2559.302423	1280.154849	2542.275874	1271.641575	2541.291858	1271.149567	19
8	814.482152	407.744714	797.455603	399.231440			Y	2460.234009	1230.620642	2443.207460	1222.107368	2442.223444	1221.615360	18
9	<b>943.524745</b>	472.266011	926.498196	463.752736	925.514180	463.260728	E	2297.170680	1149.088978	2280.144131	1140.575703	2279.160115	1140.083695	17
10	1000.546209	500.776743	983.519660	492.263468	982.535644	491.771460	G	2168.128087	<b>1084.567681</b>	2151.101538	1076.054407	2150.117522	1075.562399	16
11	<b>1128.604787</b>	564.806032	1111.578238	556.292757	1110.594222	555.800749	Q	2111.106623	1056.056949	2094.080074	1047.543675	2093.096058	1047.051667	15
12	<b>1241.688851</b>	<b>621.348063</b>	1224.662302	612.834789	1223.678286	612.342781	L	1983.048045	992.027660	1966.021496	983.514386	1965.037480	983.022378	14
13	<b>1354.772915</b>	677.890095	1337.746366	669.376821	1336.762350	668.884813	I	<b>1869.963981</b>	<b>935.485628</b>	1852.937432	926.972354	<b>1851.953416</b>	926.480346	13
14	1441.804943	721.406109	1424.778394	712.892835	1423.794378	712.400827	S	<b>1756.879917</b>	<b>878.943597</b>	1739.853368	870.430322	1738.869352	869.938314	12
15	1554.889007	777.948141	1537.862458	769.434867	1536.878442	768.942859	I	<b>1669.847889</b>	835.427582	<b>1652.821340</b>	826.914308	1651.837324	826.422300	11
16	1682.947585	841.977430	1665.921036	833.464156	1664.937020	832.972148	Q	<b>1556.763825</b>	778.885551	1539.737276	<b>770.372276</b>	1538.753260	<b>769.880268</b>	10
17	1811.006163	906.006719	1793.979614	897.493445	1792.995598	897.001437	Q	<b>1428.705247</b>	714.856262	<b>1411.678698</b>	706.342987	1410.694682	705.850979	9
18	1974.069492	987.538384	1957.042943	979.025109	1956.058927	978.533101	Y	<b>1300.646669</b>	650.826973	1283.620120	642.313698	1282.636104	641.821690	8
19	2031.090956	1016.049116	2014.064407	1007.535841	2013.080391	1007.043833	G	<b>1137.583340</b>	569.295308	1120.556791	560.782034	1119.572775	560.290025	7
20	2168.149868	<b>1084.578572</b>	2151.123319	1076.065297	2150.139303	1075.573289	H	<b>1080.561876</b>	540.784576	1063.535327	532.271302	1062.551311	531.779293	6
21	2607.375194	1304.191235	2590.348645	1295.677960	2589.364629	1295.185952	Q	<b>943.502964</b>	472.255120	926.476415	463.741846	925.492399	463.249838	5
22	2736.417787	1368.712531	2719.391238	1360.199257	2718.407222	1359.707249	E	<b>504.277638</b>	252.642457	487.251089	244.129182	486.267073	243.637174	4
23	2835.486201	1418.246738	2818.459652	1409.733464	2817.475636	1409.241456	V	375.235045	188.121160	358.208496	179.607886	357.224480	179.115878	3
24	2936.533880	1468.770578	2919.507331	1460.257303	2918.523315	1459.765295	T	<b>276.166631</b>	138.586953	259.140082	130.073679	258.156066	129.581671	2
25							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GLKPGVVYEGQLISIQYGHQEVTR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
68.0	3109.638275	-0.000779	<a href="#">GLKPGVVYEGQLISIQYGHQEVTR</a>
37.4	3109.638275	-0.000779	<a href="#">GLKPGVVYEGQLISIQYGHQEVTR</a>
29.2	3109.638275	-0.000779	<a href="#">GLKPGVVYEGQLISIQYGHQEVTR</a>

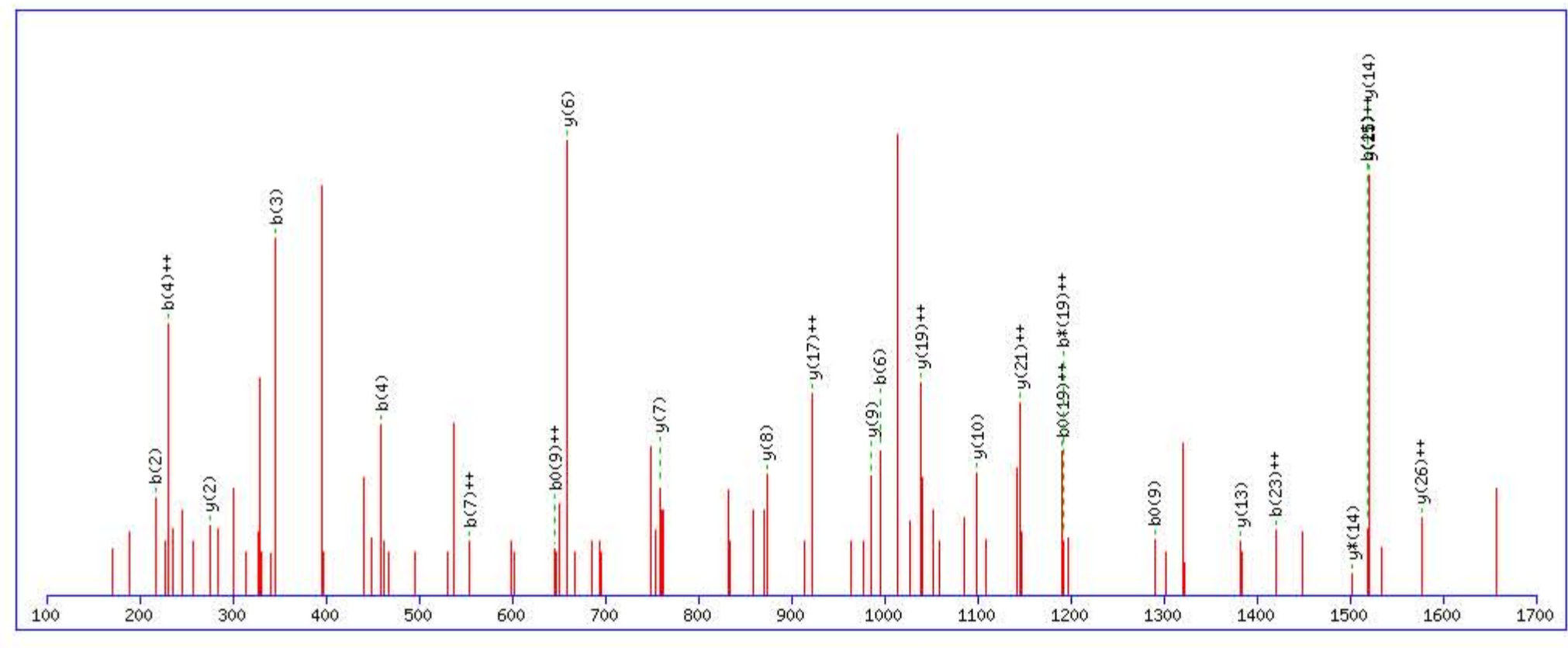
MATRIX SCIENCE Mascot Search Results

Peptide View

MS/MS Fragmentation of **TDELPQLVTLPHPNLHGPEILDVPSTVQK**  
 Found in **FINC\_HUMAN**, Fibronectin OS=Homo sapiens GN=FN1 PE=1 SV=4

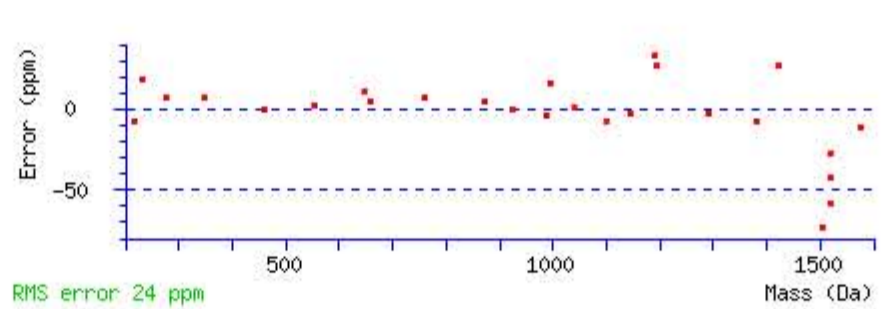
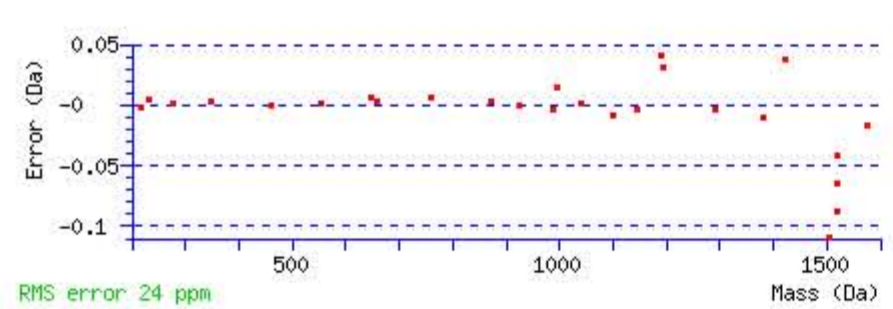
Match to Query 59572: 3497.861696 from(875.472700,4+) rtinseconds(2605) index(35237)  
 Title: Locus:1.1.1.3570.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from 100 to 1700 Da Full range  
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3497.859238  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications: Q6 : Biotin:Thermo-21345 (Q)  
 Ions Score: 26 Expect: 0.042  
 Matches : 26/320 fragment ions using 65 most intense peaks (help)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							29
2	<b>217.081898</b>	109.044587			199.071333	100.039304	D	3397.818827	1699.413051	3380.792278	1690.899777	3379.808262	1690.407769	28
3	<b>346.124491</b>	173.565883			328.113926	164.560601	E	3282.791884	1641.899580	3265.765335	1633.386305	3264.781319	1632.894297	27
4	<b>459.208555</b>	<b>230.107915</b>			441.197990	221.102633	L	3153.749291	<b>1577.378283</b>	3136.722742	1568.865009	3135.738726	1568.373001	26
5	556.261319	278.634298			538.250754	269.629015	P	3040.665227	<b>1520.836251</b>	3023.638678	1512.322977	3022.654662	1511.830969	25
6	<b>995.486645</b>	498.246961	978.460096	489.733686	977.476080	489.241678	Q	2943.612463	1472.309869	2926.585914	1463.796595	2925.601898	1463.304587	24
7	1108.570709	<b>554.788993</b>	1091.544160	546.275718	1090.560144	545.783710	L	2504.387137	1252.697206	2487.360588	1244.183932	2486.376572	1243.691924	23
8	1207.639123	604.323200	1190.612574	595.809925	1189.628558	595.317917	V	2391.303073	1196.155174	2374.276524	1187.641900	2373.292508	1187.149892	22
9	1308.686802	654.847039	1291.660253	646.333765	<b>1290.676237</b>	<b>645.841757</b>	T	2292.234659	<b>1146.620967</b>	2275.208110	1138.107693	2274.224094	1137.615685	21
10	1421.770866	711.389071	1404.744317	702.875797	1403.760301	702.383789	L	2191.186980	1096.097128	2174.160431	1087.583853	2173.176415	1087.091845	20
11	<b>1518.823630</b>	759.915453	1501.797081	751.402179	1500.813065	750.910171	P	2078.102916	<b>1039.555096</b>	2061.076367	1031.041821	2060.092351	1030.549813	19
12	1655.882542	828.444909	1638.855993	819.931635	1637.871977	819.439627	H	1981.050152	991.028714	1964.023603	982.515440	1963.039587	982.023432	18
13	1752.935306	876.971291	1735.908757	868.458017	1734.924741	867.966009	P	1843.991240	<b>922.499258</b>	1826.964691	913.985984	1825.980675	913.493976	17
14	1866.978233	933.992755	1849.951684	925.479480	1848.967668	924.987472	N	1746.938476	873.972876	1729.911927	865.459602	1728.927911	864.967594	16
15	1980.062297	990.534787	1963.035748	982.021512	1962.051732	981.529504	L	1632.895549	816.951413	1615.869000	808.438138	1614.884984	807.946130	15
16	2117.121209	1059.064242	2100.094660	1050.550968	2099.110644	1050.058960	H	<b>1519.811485</b>	760.409381	<b>1502.784936</b>	751.896106	1501.800920	751.404098	14
17	2174.142673	1087.574974	2157.116124	1079.061700	2156.132108	1078.569692	G	<b>1382.752573</b>	691.879925	1365.726024	683.366650	1364.742008	682.874642	13
18	2271.195437	1136.101356	2254.168888	1127.588082	2253.184872	1127.096074	P	1325.731109	663.369193	1308.704560	654.855918	1307.720544	654.363910	12
19	2400.238030	1200.622653	2383.211481	<b>1192.109378</b>	2382.227465	<b>1191.617370</b>	E	1228.678345	614.842811	1211.651796	606.329536	1210.667780	605.837528	11
20	2513.322094	1257.164685	2496.295545	1248.651410	2495.311529	1248.159402	I	<b>1099.635752</b>	550.321514	1082.609203	541.808240	1081.625187	541.316231	10
21	2626.406158	1313.706717	2609.379609	1305.193442	2608.395593	1304.701435	L	<b>986.551688</b>	493.779482	969.525139	485.266207	968.541123	484.774199	9
22	2741.433101	1371.220188	2724.406552	1362.706914	2723.422536	1362.214906	D	<b>873.467624</b>	437.237450	856.441075	428.724175	855.457059	428.232167	8
23	2840.501515	<b>1420.754395</b>	2823.474966	1412.241121	2822.490950	1411.749113	V	<b>758.440681</b>	379.723978	741.414132	371.210704	740.430116	370.718696	7
24	2937.554279	1469.280777	2920.527730	1460.767503	2919.543714	1460.275495	P	<b>659.372267</b>	330.189772	642.345718	321.676497	641.361702	321.184489	6
25	3024.586307	1512.796791	3007.559758	1504.283517	3006.575742	1503.791509	S	562.319503	281.663389	545.292954	273.150115	544.308938	272.658107	5
26	3125.633986	1563.320631	3108.607437	1554.807356	3107.623421	1554.315348	T	475.287475	238.147375	458.260926	229.634101	457.276910	229.142093	4
27	3224.702400	1612.854838	3207.675851	1604.341563	3206.691835	1603.849555	V	374.239796	187.623536	357.213247	179.110261			3
28	3352.760978	1676.884127	3335.734429	1668.370852	3334.750413	1667.878844	Q	<b>275.171382</b>	138.089329	258.144833	129.576055			2
29							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **TDELPQLVTLPHPNLHGPEILDVPSTVQK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
26.1	3497.859238	0.002458	<b>TDELPQLVTLPHPNLHGPEILDVPSTVQK</b>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **MCVDVNECQR**

Found in **FBLN1\_HUMAN**, Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=4

Match to Query 13702: 1636.683672 from(546.568500,3+) rtinseconds(1542) index(29057)

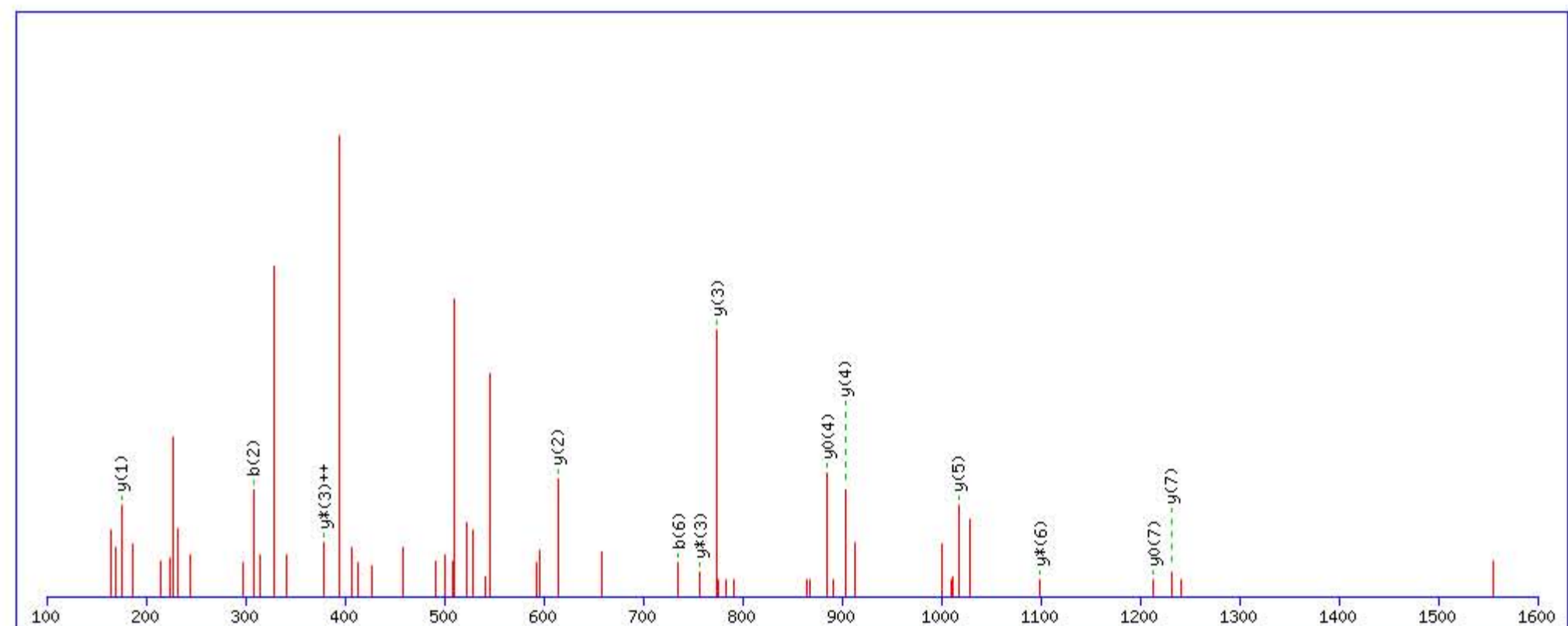
Title: Locus:1.1.1.3200.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1636.682999

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

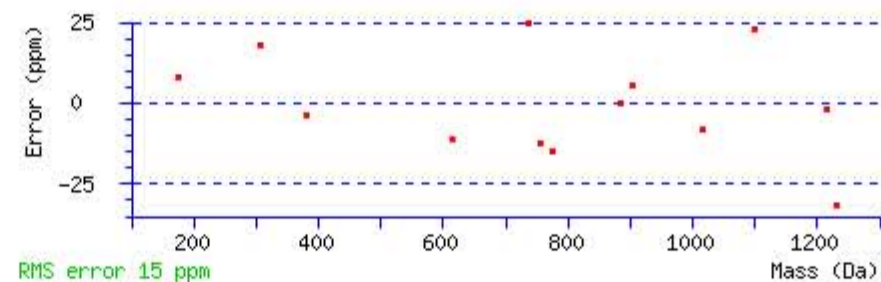
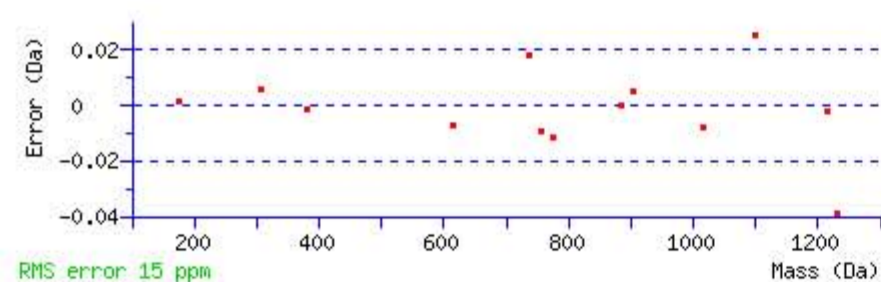
M1 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.0042

Matches : 13/124 fragment ions using 22 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.042676	74.524976					M							10
2	<b>308.073325</b>	154.540301					C	1490.654867	745.831072	1473.628318	737.317797	1472.644302	736.825789	9
3	407.141739	204.074508					V	1330.624218	665.815747	1313.597669	657.302473	1312.613653	656.810465	8
4	522.168682	261.587979			504.158117	252.582697	D	<b>1231.555804</b>	616.281540	1214.529255	607.768266	<b>1213.545239</b>	607.276258	7
5	621.237096	311.122186			603.226531	302.116904	V	1116.528861	558.768069	<b>1099.502312</b>	550.254794	1098.518296	549.762786	6
6	<b>735.280023</b>	368.143650	718.253474	359.630375	717.269458	359.138367	N	<b>1017.460447</b>	509.233862	1000.433898	500.720587	999.449882	500.228579	5
7	864.322616	432.664946	847.296067	424.151672	846.312051	423.659664	E	<b>903.417520</b>	452.212398	886.390971	443.699124	<b>885.406955</b>	443.207116	4
8	1024.353265	512.680271	1007.326716	504.166996	1006.342700	503.674988	C	<b>774.374927</b>	387.691102	<b>757.348378</b>	<b>379.177827</b>			3
9	1463.578591	732.292934	1446.552042	723.779659	1445.568026	723.287651	Q	<b>614.344278</b>	307.675777	597.317729	299.162503			2
10							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [MCVDVNECQR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
33.1	1636.682999	0.000673	<a href="#">MCVDVNECQR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SAATLQQEK**

Found in **FBLN1\_HUMAN**, Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=4

Match to Query 20085: 1285.665028 from(643.839790,2+) rtinseconds(1521) index(43021)

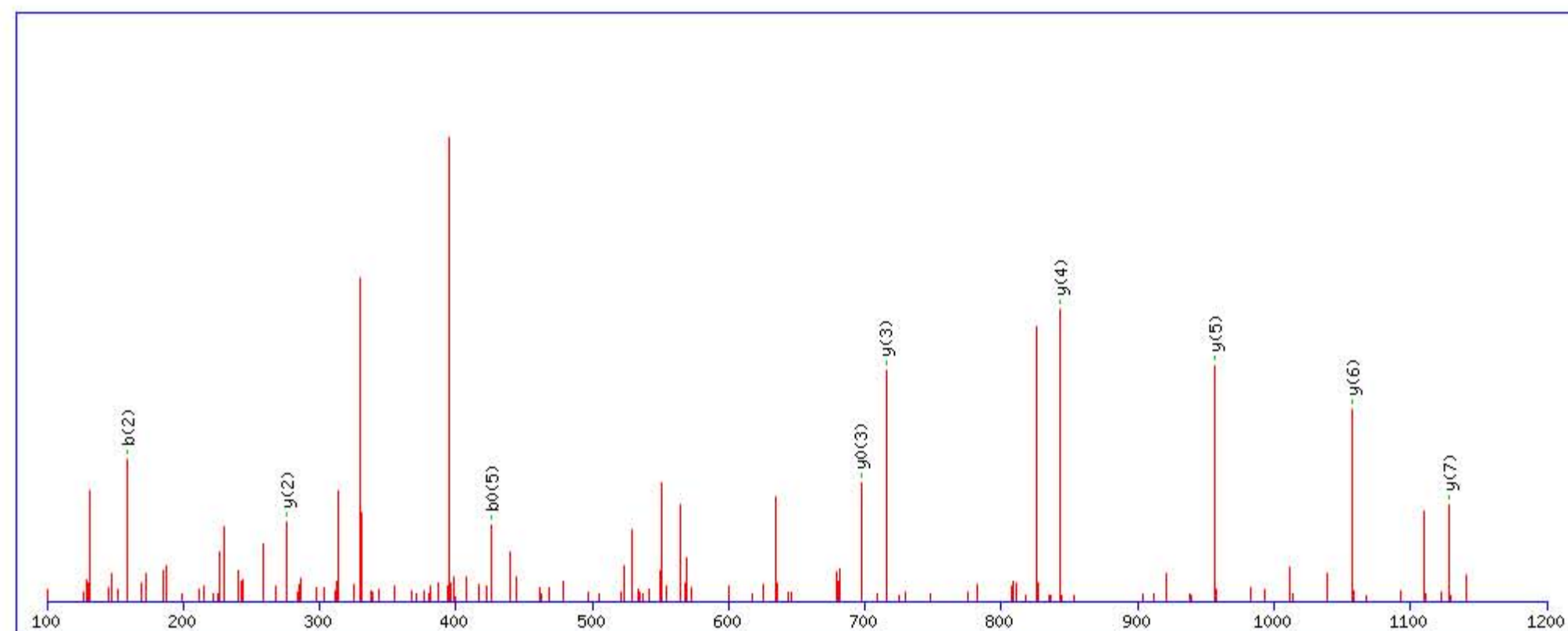
Title: Locus:1.1.1.3242.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1285.669998

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

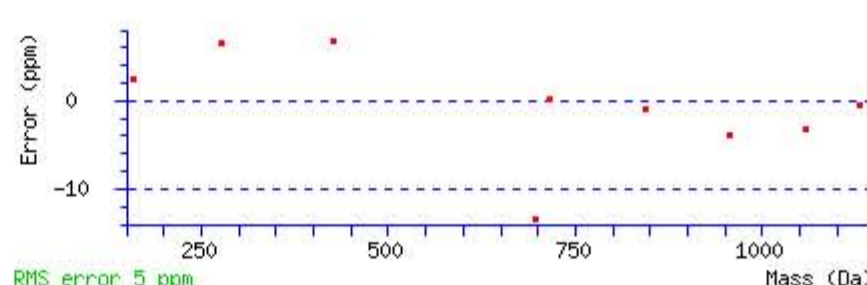
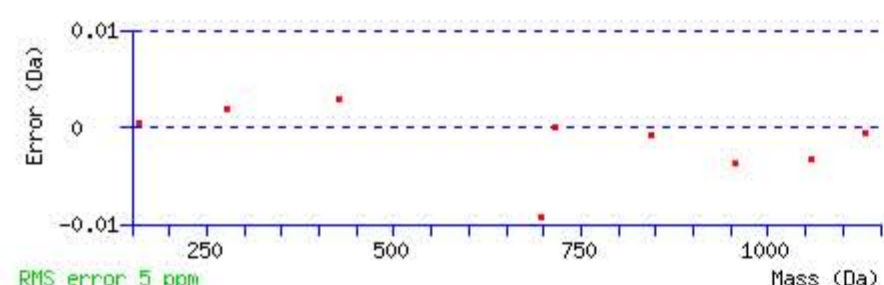
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 49 Expect: 0.00016

Matches : 9/84 fragment ions using 11 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							9
2	<b>159.076418</b>	80.041847			141.065853	71.036564	A	1199.645272	600.326274	1182.618723	591.813000	1181.634707	591.320991	8
3	230.113532	115.560404			212.102967	106.555121	A	<b>1128.608158</b>	564.807717	1111.581609	556.294443	1110.597593	555.802435	7
4	331.161211	166.084243			313.150646	157.078961	T	<b>1057.571044</b>	529.289160	1040.544495	520.775886	1039.560479	520.283878	6
5	444.245275	222.626275			<b>426.234710</b>	213.620993	L	<b>956.523365</b>	478.765321	939.496816	470.252046	938.512800	469.760038	5
6	572.303853	286.655565	555.277304	278.142290	554.293288	277.650282	Q	<b>843.439301</b>	422.223289	826.412752	413.710014	825.428736	413.218006	4
7	1011.529179	506.268228	994.502630	497.754953	993.518614	497.262945	Q	<b>715.380723</b>	358.194000	698.354174	349.680725	<b>697.370158</b>	349.188717	3
8	1140.571772	570.789524	1123.545223	562.276250	1122.561207	561.784242	E	<b>276.155397</b>	138.581336	259.128848	130.068062	258.144832	129.576054	2
9							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [SAATLQQEK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
49.0	1285.669998	-0.004970	<a href="#">SAATLQQEK</a>
30.2	1285.669998	-0.004970	<a href="#">SAATLQQEK</a>
7.9	1285.651367	0.013661	<a href="#">LLQAVENGDAEK</a>
6.3	1285.652237	0.012791	<a href="#">AMQIQEQK</a>
5.7	1285.669998	-0.004970	<a href="#">ASLDQGKEK</a>
4.0	1285.649582	0.015446	<a href="#">SVPCRCVRR</a>
2.5	1285.662598	0.002430	<a href="#">EARSQVKPEK</a>
2.0	1285.669998	-0.004970	<a href="#">KQEEVQK</a>
1.8	1285.651382	0.013646	<a href="#">ALEPTGQSGEAVK</a>
1.5	1285.655380	0.009648	<a href="#">KYEFKDLK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SQETGDLVDVGGGLQETDK**

Found in **FBLN1\_HUMAN**, Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=4

Match to Query 41643: 2101.975648 from(1051.995100,2+) rtinseconds(2045) index(32136)

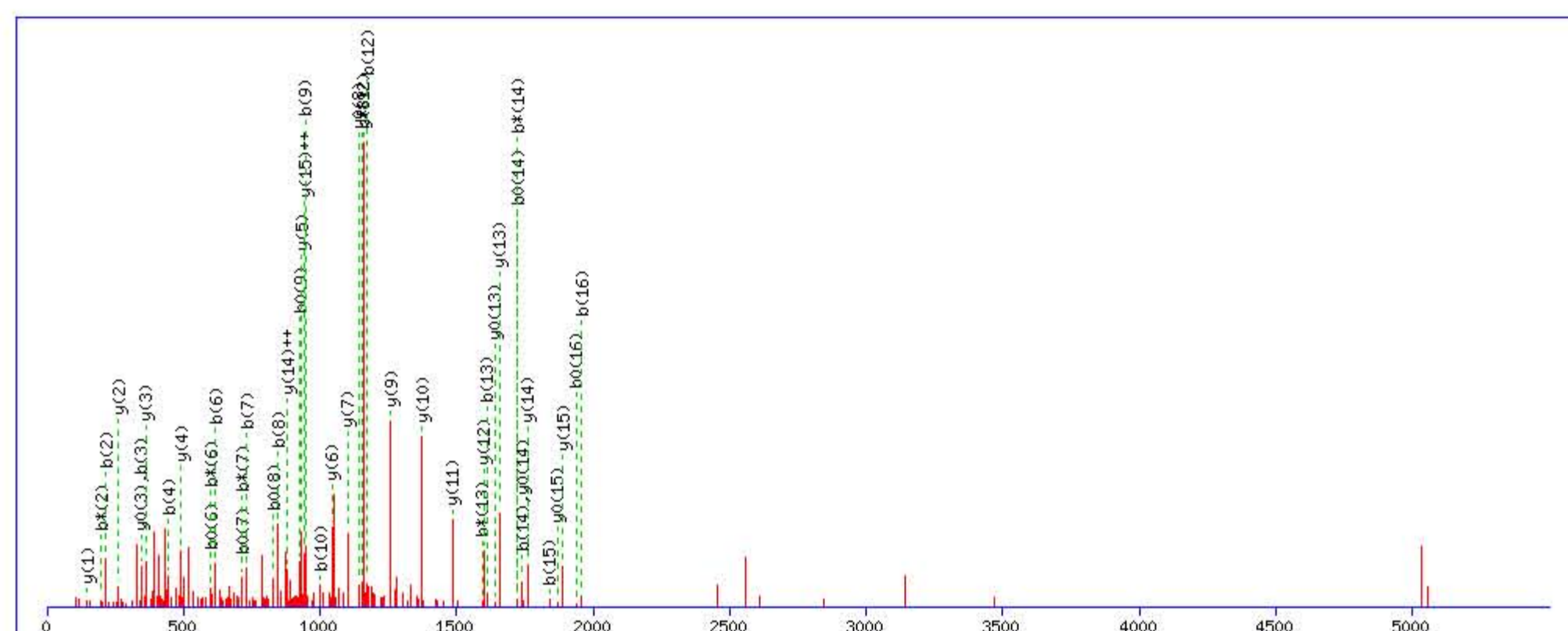
Title: Locus:1.1.1.3375.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2101.983780

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

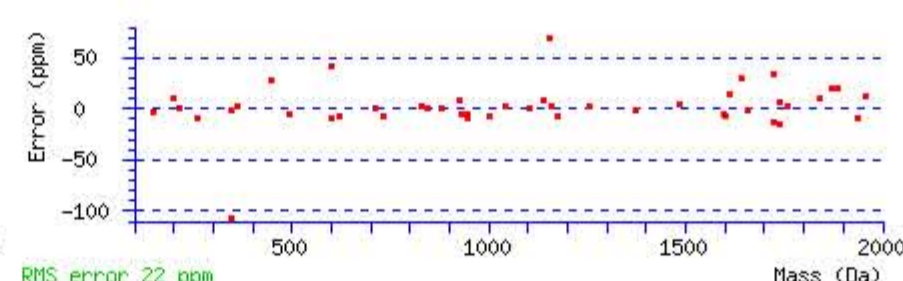
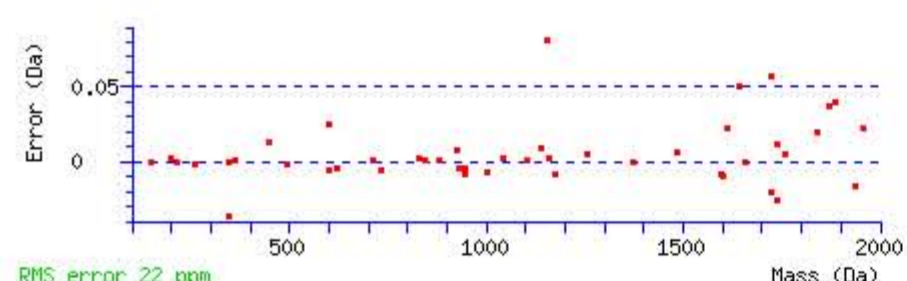
Variable modifications:

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 92 Expect: 8.3e-009

Matches : 47/188 fragment ions using 90 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							17
2	<b>216.097882</b>	108.552579	<b>199.071333</b>	100.039305	198.087317	99.547296	Q	2015.959015	1008.483146	1998.932466	999.969871	1997.948450	999.477863	16
3	<b>345.140475</b>	173.073875	328.113926	164.560601	327.129910	164.068593	E	<b>1887.900437</b>	<b>944.453857</b>	1870.873888	935.940582	<b>1869.889872</b>	935.448574	15
4	<b>446.188154</b>	223.597715	429.161605	215.084441	428.177589	214.592433	T	<b>1758.857844</b>	<b>879.932560</b>	1741.831295	871.419286	<b>1740.847279</b>	870.927278	14
5	503.209618	252.108447	486.183069	243.595172	485.199053	243.103164	G	<b>1657.810165</b>	829.408721	1640.783616	820.895446	<b>1639.799600</b>	820.403438	13
6	<b>618.236561</b>	309.621919	<b>601.210012</b>	301.108644	<b>600.225996</b>	300.616636	D	<b>1600.788701</b>	800.897989	1583.762152	792.384714	1582.778136	791.892706	12
7	<b>731.320625</b>	366.163951	<b>714.294076</b>	357.650676	<b>713.310060</b>	357.158668	L	<b>1485.761758</b>	743.384517	1468.735209	734.871243	1467.751193	734.379235	11
8	<b>846.347568</b>	423.677422	829.321019	415.164148	<b>828.337003</b>	414.672140	D	<b>1372.677694</b>	686.842485	1355.651145	678.329211	1354.667129	677.837203	10
9	<b>945.415982</b>	473.211629	928.389433	464.698354	<b>927.405417</b>	464.206347	V	<b>1257.650751</b>	629.329014	1240.624202	620.815739	1239.640186	620.323731	9
10	<b>1002.437446</b>	501.722361	985.410897	493.209087	984.426881	492.717079	G	<b>1158.582337</b>	579.794807	1141.555788	571.281532	<b>1140.571772</b>	570.789524	8
11	1059.458910	530.233093	1042.432361	521.719819	1041.448345	521.227811	G	<b>1101.560873</b>	551.284075	1084.534324	542.770800	1083.550308	542.278792	7
12	<b>1172.542974</b>	586.775125	<b>1155.516425</b>	578.261851	1154.532409	577.769842	L	<b>1044.539409</b>	522.773343	1027.512860	514.260068	1026.528844	513.768060	6
13	<b>1611.768300</b>	806.387788	<b>1594.741751</b>	797.874514	1593.757735	797.382505	Q	<b>931.455345</b>	466.231311	914.428796	457.718036	913.444780	457.226028	5
14	<b>1740.810893</b>	870.909085	<b>1723.784344</b>	862.395810	<b>1722.800328</b>	861.903802	E	<b>492.230019</b>	246.618648	475.203470	238.105373	474.219454	237.613365	4
15	<b>1841.858572</b>	921.432924	1824.832023	912.919650	1823.848007	912.427642	T	<b>363.187426</b>	182.097351	346.160877	173.584077	<b>345.176861</b>	173.092069	3
16	<b>1956.885515</b>	978.946396	1939.858966	970.433121	<b>1938.874950</b>	969.941113	D	<b>262.139747</b>	131.573512	245.113198	123.060237	244.129182	122.568229	2
17							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **SQETGDLVDVGGGLQETDK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
91.8	2101.983780	-0.008132	<a href="#">SQETGDLVDVGGGLQETDK</a>
5.4	2101.988480	-0.012832	<a href="#">MQQVGGNSQTESSLPGR</a>
4.2	2101.978729	-0.003081	<a href="#">KSFMMIKYMHDHYLDK</a>
4.2	2101.978729	-0.003081	<a href="#">KSFMMLKYMHDHYLDK</a>
4.0	2101.978729	-0.003081	<a href="#">KSFMMIKYMHDHYLDK</a>
4.0	2101.978729	-0.003081	<a href="#">KSFMMLKYMHDHYLDK</a>
3.6	2101.959503	0.016145	<a href="#">GNCQTQGDSILDCVPK</a>
3.6	2101.959503	0.016145	<a href="#">GNCQTQGDSILDCVPK</a>
3.1	2101.978729	-0.003081	<a href="#">KSFMMIKYMHDHYLDK</a>
3.1	2101.978729	-0.003081	<a href="#">KSFMMLKYMHDHYLDK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **AITPPHPASQANIIFDITEGNLR**

Found in **FBLN1\_HUMAN**, Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=4

Match to Query 51337: 2785.457232 from(929.493020,3+) rtinseconds(2721) index(36004)

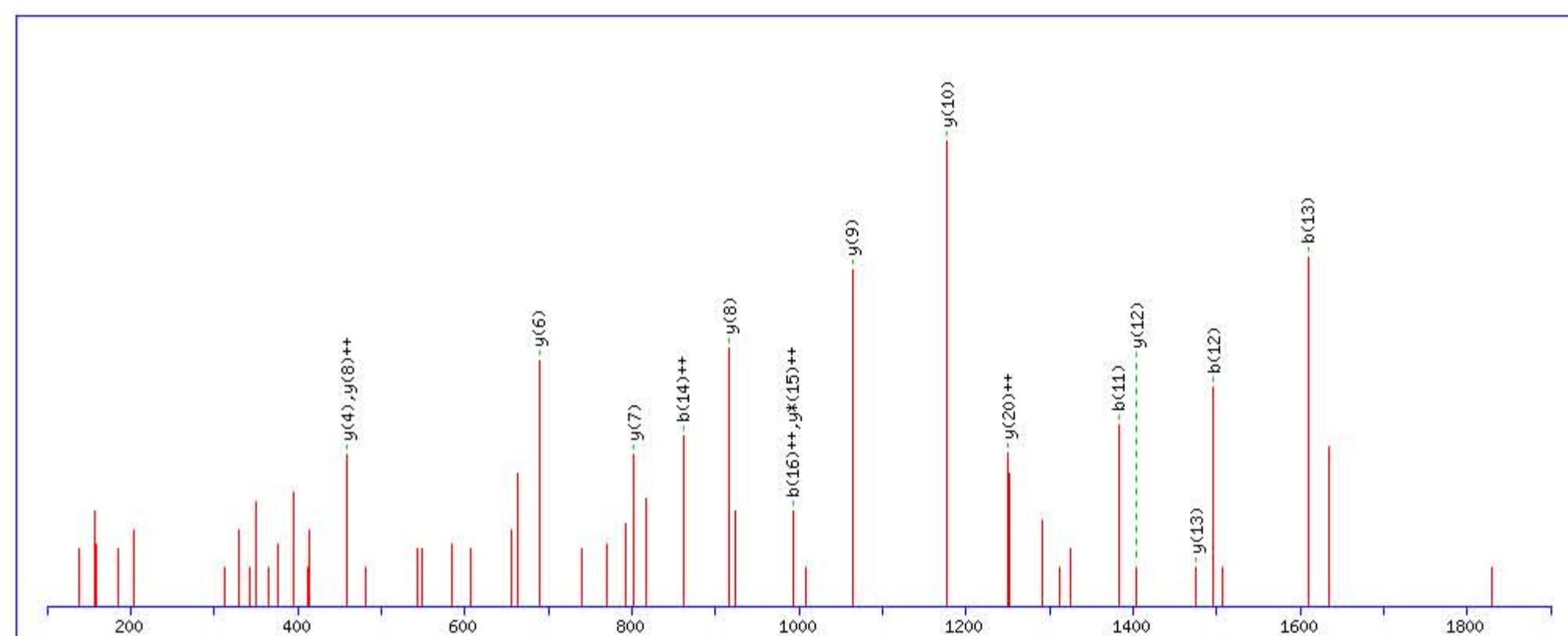
Title: Locus:1.1.1.3610.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2785.458496

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

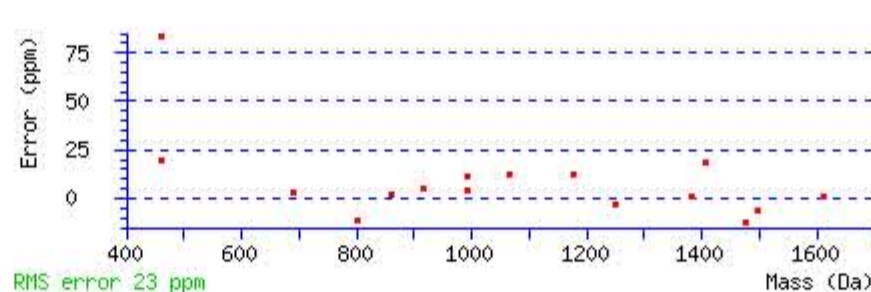
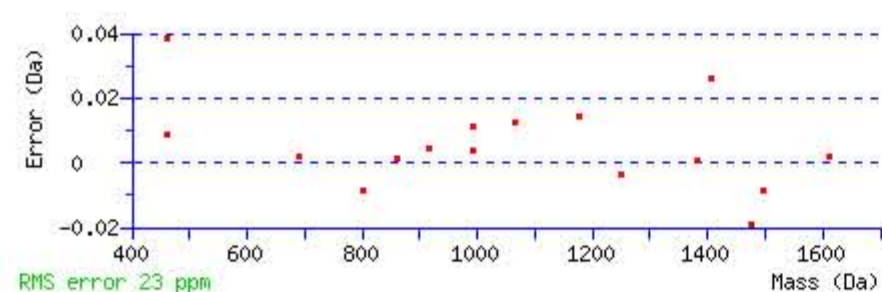
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 35 Expect: 0.0076

Matches : 16/234 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							23
2	185.128454	93.067865					I	2715.428684	1358.217980	2698.402135	1349.704705	2697.418119	1349.212697	22
3	286.176133	143.591704			268.165568	134.586422	T	2602.344620	1301.675948	2585.318071	1293.162673	2584.334055	1292.670665	21
4	383.228897	192.118087			365.218332	183.112804	P	2501.296941	<b>1251.152108</b>	2484.270392	1242.638834	2483.286376	1242.146826	20
5	480.281661	240.644469			462.271096	231.639186	P	2404.244177	1202.625726	2387.217628	1194.112452	2386.233612	1193.620444	19
6	617.340573	309.173925			599.330008	300.168642	H	2307.191413	1154.099344	2290.164864	1145.586070	2289.180848	1145.094062	18
7	714.393337	357.700307			696.382772	348.695024	P	2170.132501	1085.569888	2153.105952	1077.056614	2152.121936	1076.564606	17
8	785.430451	393.218864			767.419886	384.213581	A	2073.079737	1037.043506	2056.053188	1028.530232	2055.069172	1028.038224	16
9	872.462479	436.734878			854.451914	427.729595	S	2002.042623	1001.524950	1985.016074	<b>993.011675</b>	1984.032058	992.519667	15
10	1311.687805	656.347541	1294.661256	647.834266	1293.677240	647.342258	Q	1915.010595	958.008936	1897.984046	949.495661	1897.000030	949.003653	14
11	<b>1382.724919</b>	691.866098	1365.698370	683.352823	1364.714354	682.860815	A	<b>1475.785269</b>	738.396273	1458.758720	729.882998	1457.774704	729.390990	13
12	<b>1496.767846</b>	748.887561	1479.741297	740.374287	1478.757281	739.882278	N	<b>1404.748155</b>	702.877716	1387.721606	694.364441	1386.737590	693.872433	12
13	<b>1609.851910</b>	805.429593	1592.825361	796.916318	1591.841345	796.424310	I	1290.705228	645.856252	1273.678679	637.342978	1272.694663	636.850970	11
14	1722.935974	<b>861.971625</b>	1705.909425	853.458350	1704.925409	852.966342	I	<b>1177.621164</b>	589.314220	1160.594615	580.800946	1159.610599	580.308938	10
15	1870.004388	935.505832	1852.977839	926.992557	1851.993823	926.500549	F	<b>1064.537100</b>	532.772188	1047.510551	524.258914	1046.526535	523.766906	9
16	1985.031331	<b>993.019303</b>	1968.004782	984.506029	1967.020766	984.014021	D	<b>917.468686</b>	<b>459.237981</b>	900.442137	450.724707	899.458121	450.232699	8
17	2098.115395	1049.561335	2081.088846	1041.048061	2080.104830	1040.556053	I	<b>802.441743</b>	401.724510	785.415194	393.211235	784.431178	392.719227	7
18	2199.163074	1100.085175	2182.136525	1091.571900	2181.152509	1091.079892	T	<b>689.357679</b>	345.182478	672.331130	336.669203	671.347114	336.177195	6
19	2328.205667	1164.606471	2311.179118	1156.093197	2310.195102	1155.601189	E	588.310000	294.658638	571.283451	286.145364	570.299435	285.653356	5
20	2385.227131	1193.117203	2368.200582	1184.603929	2367.216566	1184.111921	G	<b>459.267407</b>	230.137341	442.240858	221.624067			4
21	2499.270058	1250.138667	2482.243509	1241.625392	2481.259493	1241.133384	N	402.245943	201.626610	385.219394	193.113335			3
22	2612.354122	1306.680699	2595.327573	1298.167424	2594.343557	1297.675416	L	288.203016	144.605146	271.176467	136.091872			2
23							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **AITPPHPASQANIIFDITEGNLR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
35.2	2785.458496	-0.001264	<b>AITPPHPASQANIIFDITEGNLR</b>



# MASCOT Search Results

## Peptide View

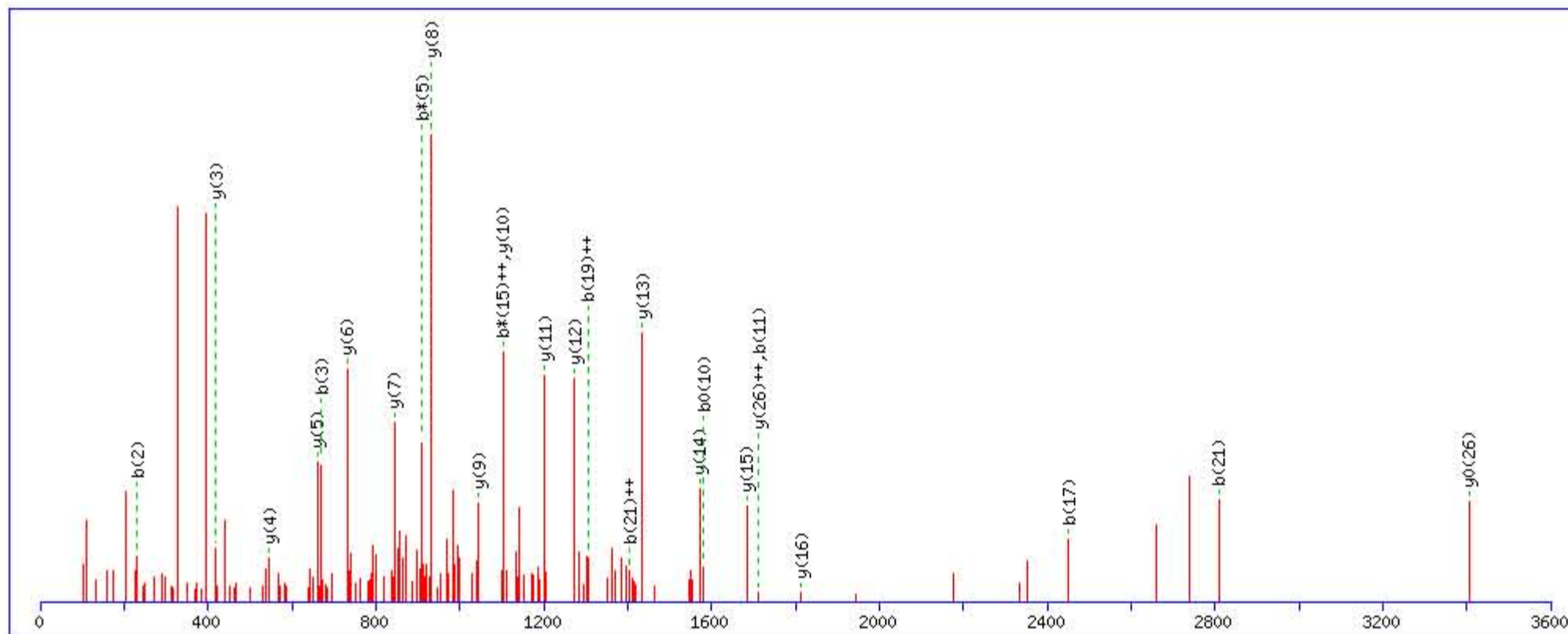
MS/MS Fragmentation of **MVQEQCCHSQLEELHCATGISLANEQDR**  
Found in **FBLN1\_HUMAN**, Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=4

Match to Query 60712: 3653.611256 from(914.410090,4+) rtinseconds(2002) index(31903)  
Title: Locus:1.1.1.3360.25 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

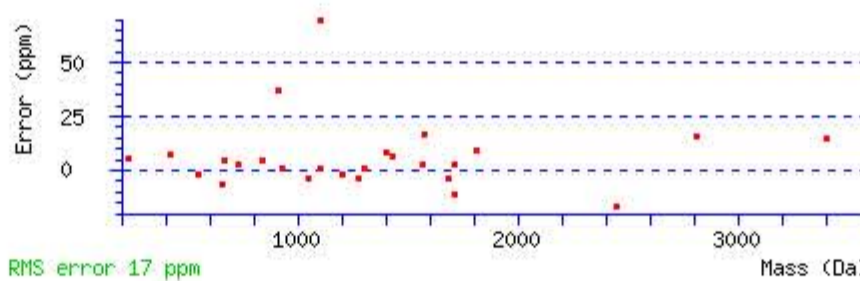
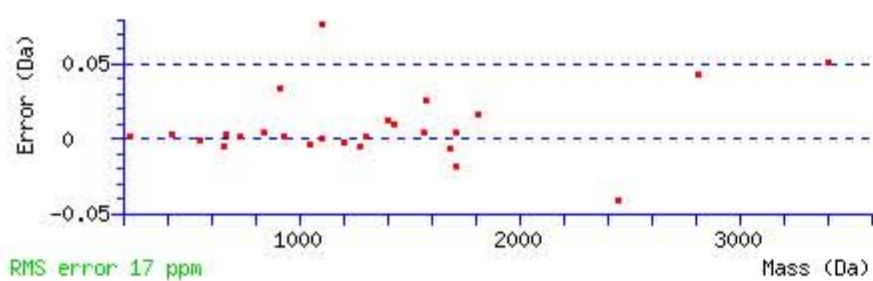
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 3653.615311  
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
Variable modifications:  
Q3 : Biotin:Thermo-21345 (Q)  
Ions Score: 79 Expect: 8.2e-008  
Matches : 26/312 fragment ions using 42 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					<b>M</b>							28
2	<b>231.116175</b>	116.061725					<b>V</b>	3523.582122	1762.294699	3506.555573	1753.781424	3505.571557	1753.289416	27
3	<b>670.341501</b>	335.674389	653.314952	327.161114			<b>Q</b>	3424.513708	<b>1712.760492</b>	3407.487159	1704.247217	<b>3406.503143</b>	1703.755209	26
4	799.384094	400.195685	782.357545	391.682411	781.373529	391.190403	<b>E</b>	2985.288382	1493.147829	2968.261833	1484.634554	2967.277817	1484.142546	25
5	927.442672	464.224974	<b>910.416123</b>	455.711700	909.432107	455.219692	<b>Q</b>	2856.245789	1428.626532	2839.219240	1420.113258	2838.235224	1419.621250	24
6	1087.473321	544.240299	1070.446772	535.727024	1069.462756	535.235016	<b>C</b>	2728.187211	1364.597243	2711.160662	1356.083969	2710.176646	1355.591961	23
7	1247.503970	624.255623	1230.477421	615.742349	1229.493405	615.250341	<b>C</b>	2568.156562	1284.581919	2551.130013	1276.068644	2550.145997	1275.576636	22
8	1384.562882	692.785079	1367.536333	684.271805	1366.552317	683.779797	<b>H</b>	2408.125913	1204.566594	2391.099364	1196.053320	2390.115348	1195.561312	21
9	1471.594910	736.301093	1454.568361	727.787819	1453.584345	727.295811	<b>S</b>	2271.067001	1136.037138	2254.040452	1127.523864	2253.056436	1127.031856	20
10	1599.653488	800.330382	1582.626939	791.817108	<b>1581.642923</b>	791.325100	<b>Q</b>	2184.034973	1092.521124	2167.008424	1084.007850	2166.024408	1083.515842	19
11	<b>1712.737552</b>	856.872414	1695.711003	848.359140	1694.726987	847.867132	<b>L</b>	2055.976395	1028.491835	2038.949846	1019.978561	2037.965830	1019.486553	18
12	1841.780145	921.393711	1824.753596	912.880436	1823.769580	912.388428	<b>E</b>	1942.892331	971.949804	1925.865782	963.436529	1924.881766	962.944521	17
13	1970.822738	985.915007	1953.796189	977.401733	1952.812173	976.909725	<b>E</b>	<b>1813.849738</b>	907.428507	1796.823189	898.915233	1795.839173	898.423225	16
14	2083.906802	1042.457039	2066.880253	1033.943764	2065.896237	1033.451756	<b>L</b>	<b>1684.807145</b>	842.907211	1667.780596	834.393936	1666.796580	833.901928	15
15	2220.965714	1110.986495	2203.939165	<b>1102.473220</b>	2202.955149	1101.981212	<b>H</b>	<b>1571.723081</b>	786.365179	1554.696532	777.851904	1553.712516	777.359896	14
16	2380.996363	1191.001819	2363.969814	1182.488545	2362.985798	1181.996537	<b>C</b>	<b>1434.664169</b>	717.835723	1417.637620	709.322448	1416.653604	708.830440	13
17	<b>2452.033477</b>	1226.520376	2435.006928	1218.007102	2434.022912	1217.515094	<b>A</b>	<b>1274.633520</b>	637.820398	1257.606971	629.307124	1256.622955	628.815116	12
18	2553.081156	1277.044216	2536.054607	1268.530941	2535.070591	1268.038933	<b>T</b>	<b>1203.596406</b>	602.301841	1186.569857	593.788567	1185.585841	593.296559	11
19	2610.102620	<b>1305.554948</b>	2593.076071	1297.041673	2592.092055	1296.549665	<b>G</b>	<b>1102.548727</b>	551.778002	1085.522178	543.264727	1084.538162	542.772719	10
20	2723.186684	1362.096980	2706.160135	1353.583705	2705.176119	1353.091697	<b>I</b>	<b>1045.527263</b>	523.267270	1028.500714	514.753995	1027.516698	514.261987	9
21	<b>2810.218712</b>	<b>1405.612994</b>	2793.192163	1397.099719	2792.208147	1396.607711	<b>S</b>	<b>932.443199</b>	466.725238	915.416650	458.211963	914.432634	457.719955	8
22	2923.302776	1462.155026	2906.276227	1453.641751	2905.292211	1453.149743	<b>L</b>	<b>845.411171</b>	423.209224	828.384622	414.695949	827.400606	414.203941	7
23	2994.339890	1497.673583	2977.313341	1489.160308	2976.329325	1488.668301	<b>A</b>	<b>732.327107</b>	366.667192	715.300558	358.153917	714.316542	357.661909	6
24	3108.382817	1554.695047	3091.356268	1546.181772	3090.372252	1545.689764	<b>N</b>	<b>661.289993</b>	331.148635	644.263444	322.635360	643.279428	322.143352	5
25	3237.425410	1619.216343	3220.398861	1610.703069	3219.414845	1610.211061	<b>E</b>	<b>547.247066</b>	274.127171	530.220517	265.613897	529.236501	265.121889	4
26	3365.483988	1683.245632	3348.457439	1674.732358	3347.473423	1674.240350	<b>Q</b>	<b>418.204473</b>	209.605874	401.177924	201.092600	400.193908	200.600592	3
27	3480.510931	1740.759104	3463.484382	1732.245829	3462.500366	1731.753821	<b>D</b>	290.145895	145.576585	273.119346	137.063311	272.135330	136.571303	2
28							<b>R</b>	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [MVQEQCCHSQLEELHCATGISLANEQDR](#)  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
Other BLAST [web gateways](#)

### All matches to this query

Score	$M_r(\text{calc})$	Delta	Sequence
78.9	3653.615311	-0.004055	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>
76.5	3653.615311	-0.004055	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>
76.4	3653.615311	-0.004055	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>

# {MATRIX} SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **MVQEQCCHSQLEELHCATGISLANEQDR**

Found in **FBLN1\_HUMAN**, Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=4

Match to Query 60713: 3653.611256 from(914.410090,4+) rtinseconds(1993) index(31828)

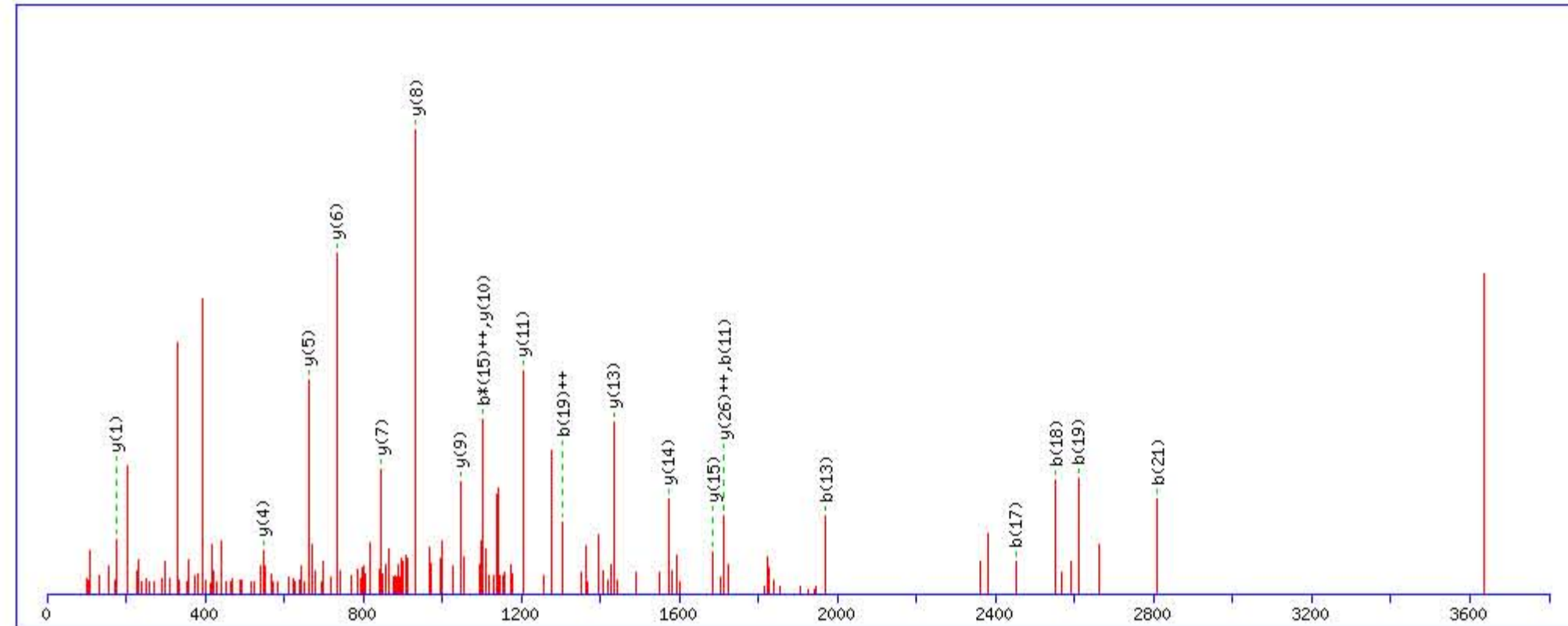
Title: Locus: 1.1.1.3357.25 File: "2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 0 to 3800 Da Full range

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 3653.615311

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

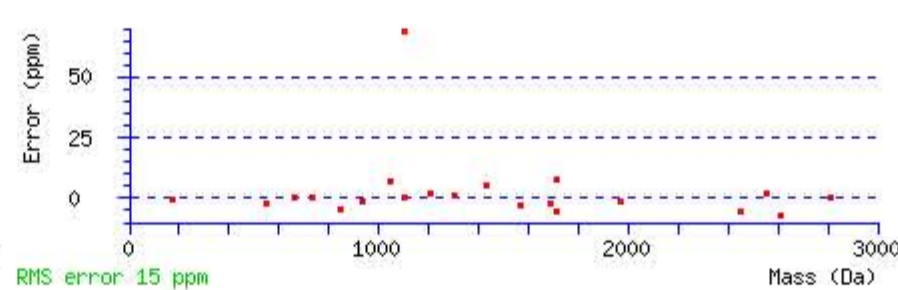
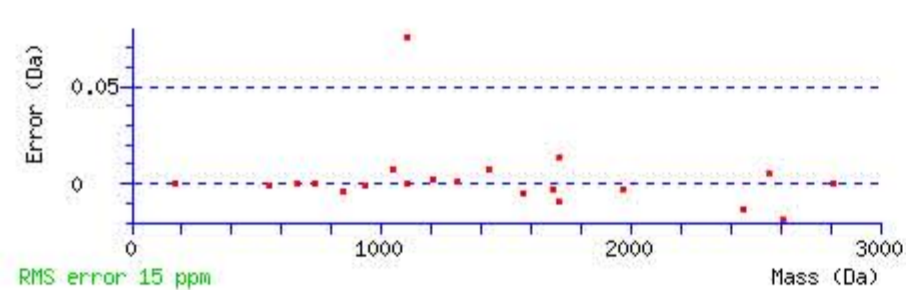
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 85 Expect: 2.2e-008

Matches : 21/312 fragment ions using 25 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							28
2	231.116175	116.061725					V	3523.582122	1762.294699	3506.555573	1753.781424	3505.571557	1753.289416	27
3	359.174753	180.091015	342.148204	171.577740			Q	3424.513708	1712.760492	3407.487159	1704.247217	3406.503143	1703.755209	26
4	488.217346	244.612311	471.190797	236.099037	470.206781	235.607029	E	3296.455130	1648.731203	3279.428581	1640.217928	3278.444565	1639.725920	25
5	616.275924	308.641600	599.249375	300.128326	598.265359	299.636318	Q	3167.412537	1584.209906	3150.385988	1575.696632	3149.401972	1575.204624	24
6	776.306573	388.656925	759.280024	380.143650	758.296008	379.651642	C	3039.353959	1520.180617	3022.327410	1511.667343	3021.343394	1511.175335	23
7	936.337222	468.672249	919.310673	460.158975	918.326657	459.666967	C	2879.323310	1440.165293	2862.296761	1431.652018	2861.312745	1431.160010	22
8	1073.396134	537.201705	1056.369585	528.688431	1055.385569	528.196423	H	2719.292661	1360.149968	2702.266112	1351.636694	2701.282096	1351.144686	21
9	1160.428162	580.717719	1143.401613	572.204445	1142.417597	571.712437	S	2582.233749	1291.620512	2565.207200	1283.107238	2564.223184	1282.615230	20
10	1599.653488	800.330382	1582.626939	791.817108	1581.642923	791.325100	Q	2495.201721	1248.104498	2478.175172	1239.591224	2477.191156	1239.099216	19
11	1712.737552	856.872414	1695.711003	848.359140	1694.726987	847.867132	L	2055.976395	1028.491835	2038.949846	1019.978561	2037.965830	1019.486553	18
12	1841.780145	921.393711	1824.753596	912.880436	1823.769580	912.388428	E	1942.892331	971.949804	1925.865782	963.436529	1924.881766	962.944521	17
13	1970.822738	985.915007	1953.796189	977.401733	1952.812173	976.909725	E	1813.849738	907.428507	1796.823189	898.915233	1795.839173	898.423225	16
14	2083.906802	1042.457039	2066.880253	1033.943764	2065.896237	1033.451756	L	1684.807145	842.907211	1667.780596	834.393936	1666.796580	833.901928	15
15	2220.965714	1110.986495	2203.939165	1102.473220	2202.955149	1101.981212	H	1571.723081	786.365179	1554.696532	777.851904	1553.712516	777.359896	14
16	2380.996363	1191.001819	2363.969814	1182.488545	2362.985798	1181.996537	C	1434.664169	717.835723	1417.637620	709.322448	1416.653604	708.830440	13
17	2452.033477	1226.520376	2435.006928	1218.007102	2434.022912	1217.515094	A	1274.633520	637.820398	1257.606971	629.307124	1256.622955	628.815116	12
18	2553.081156	1277.044216	2536.054607	1268.530941	2535.070591	1268.038933	T	1203.596406	602.301841	1186.569857	593.788567	1185.585841	593.296559	11
19	2610.102620	1305.554948	2593.076071	1297.041673	2592.092055	1296.549665	G	1102.548727	551.778002	1085.522178	543.264727	1084.538162	542.772719	10
20	2723.186684	1362.096980	2706.160135	1353.583705	2705.176119	1353.091697	I	1045.527263	523.267270	1028.500714	514.753995	1027.516698	514.261987	9
21	2810.218712	1405.612994	2793.192163	1397.099719	2792.208147	1396.607711	S	932.443199	466.725238	915.416650	458.211963	914.432634	457.719955	8
22	2923.302776	1462.155026	2906.276227	1453.641751	2905.292211	1453.149743	L	845.411171	423.209224	828.384622	414.695949	827.400606	414.203941	7
23	2994.339890	1497.673583	2977.313341	1489.160308	2976.329325	1488.668301	A	732.327107	366.667192	715.300558	358.153917	714.316542	357.661909	6
24	3108.382817	1554.695047	3091.356268	1546.181772	3090.372252	1545.689764	N	661.289993	331.148635	644.263444	322.635360	643.279428	322.143352	5
25	3237.425410	1619.216343	3220.398861	1610.703069	3219.414845	1610.211061	E	547.247066	274.127171	530.220517	265.613897	529.236501	265.121889	4
26	3365.483988	1683.245632	3348.457439	1674.732358	3347.473423	1674.240350	Q	418.204473	209.605874	401.177924	201.092600	400.193908	200.600592	3
27	3480.510931	1740.759104	3463.484382	1732.245829	3462.500366	1731.753821	D	290.145895	145.576585	273.119346	137.063311	272.135330	136.571303	2
28							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **MVQEQCCHSQLEELHCATGISLANEQDR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
84.5	3653.615311	-0.004055	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>
84.5	3653.615311	-0.004055	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>
84.5	3653.615311	-0.004055	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **MVQEQCCHSQLEELHCATGISLANEQDR**

Found in **FBLN1\_HUMAN**, Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=4

Match to Query 60714: 3653.621256 from(914.412590,4+) rtinseconds(2002) index(46087)

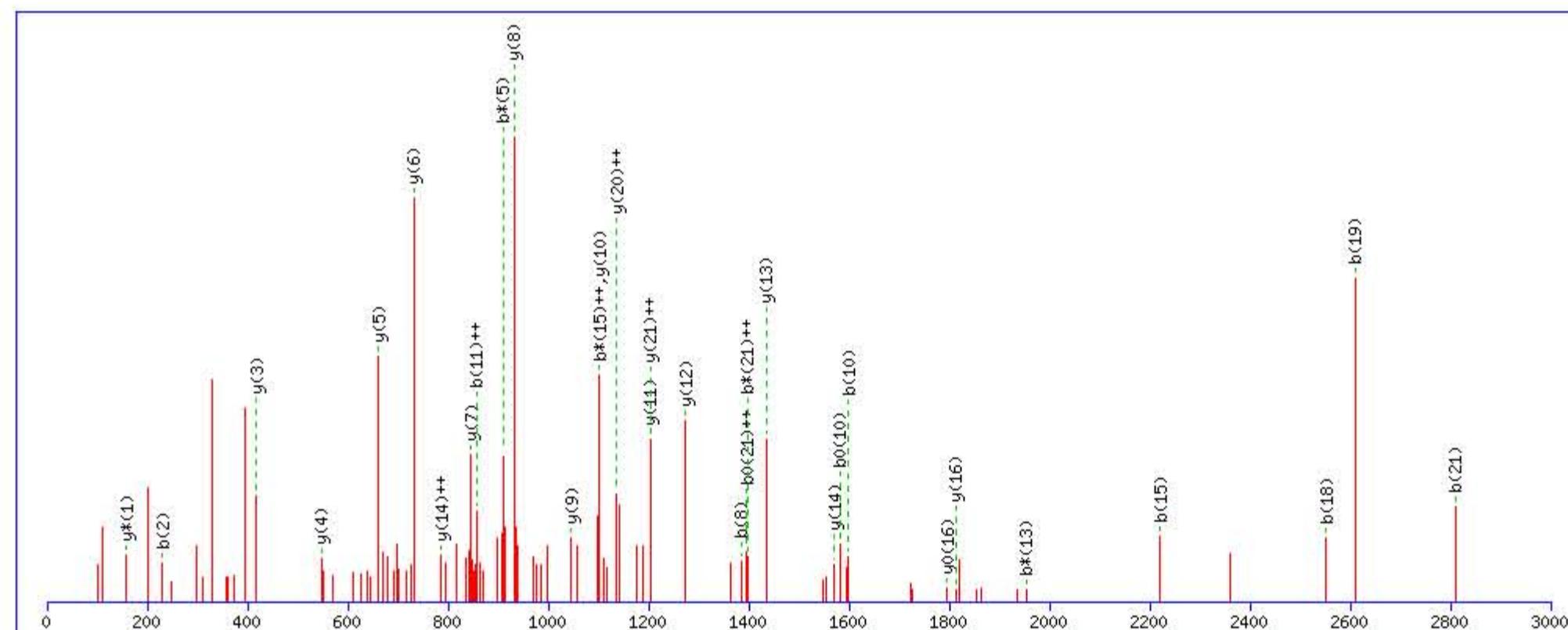
Title: Locus:1.1.1.3409.23 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

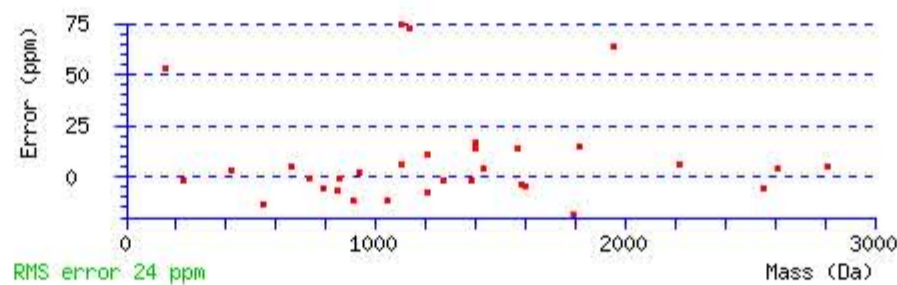
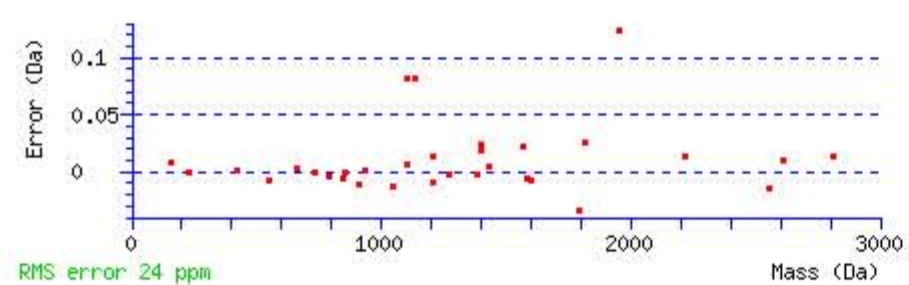
Or, Plot from  to  Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3653.615311  
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
Variable modifications:  
Q5 : Biotin:Thermo-21345 (Q)  
Ions Score: 65 Expect: 2.5e-006  
Matches : 32/312 fragment ions using 54 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							28
2	<b>231.116175</b>	116.061725					V	3523.582122	1762.294699	3506.555573	1753.781424	3505.571557	1753.289416	27
3	359.174753	180.091015	342.148204	171.577740			Q	3424.513708	1712.760492	3407.487159	1704.247217	3406.503143	1703.755209	26
4	488.217346	244.612311	471.190797	236.099037	470.206781	235.607029	E	3296.455130	1648.731203	3279.428581	1640.217928	3278.444565	1639.725920	25
5	927.442672	464.224974	<b>910.416123</b>	455.711700	909.432107	455.219692	Q	3167.412537	1584.209906	3150.385988	1575.696632	3149.401972	1575.204624	24
6	1087.473321	544.240298	1070.446772	535.727024	1069.462756	535.235016	C	2728.187211	1364.597243	2711.160662	1356.083969	2710.176646	1355.591961	23
7	1247.503970	624.255623	1230.477421	615.742349	1229.493405	615.250340	C	2568.156562	1284.581919	2551.130013	1276.068644	2550.145997	1275.576636	22
8	<b>1384.562882</b>	692.785079	1367.536333	684.271805	1366.552317	683.779796	H	2408.125913	<b>1204.566594</b>	2391.099364	1196.053320	2390.115348	1195.561312	21
9	1471.594910	736.301093	1454.568361	727.787819	1453.584345	727.295811	S	2271.067001	<b>1136.037138</b>	2254.040452	1127.523864	2253.056436	1127.031856	20
10	<b>1599.653488</b>	800.330382	1582.626939	791.817108	<b>1581.642923</b>	791.325100	Q	2184.034973	1092.521124	2167.008424	1084.007850	2166.024408	1083.515842	19
11	1712.737552	<b>856.872414</b>	1695.711003	848.359140	1694.726987	847.867132	L	2055.976395	1028.491835	2038.949846	1019.978561	2037.965830	1019.486553	18
12	1841.780145	921.393711	1824.753596	912.880436	1823.769580	912.388428	E	1942.892331	971.949804	1925.865782	963.436529	1924.881766	962.944521	17
13	1970.822738	985.915007	<b>1953.796189</b>	977.401733	1952.812173	976.909725	E	<b>1813.849738</b>	907.428507	1796.823189	898.915233	<b>1795.839173</b>	898.423225	16
14	2083.906802	1042.457039	2066.880253	1033.943764	2065.896237	1033.451756	L	1684.807145	842.907211	1667.780596	834.393936	1666.796580	833.901928	15
15	<b>2220.965714</b>	1110.986495	2203.939165	<b>1102.473220</b>	2202.955149	1101.981212	H	<b>1571.723081</b>	<b>786.365179</b>	1554.696532	777.851904	1553.712516	777.359896	14
16	2380.996363	1191.001819	2363.969814	1182.488545	2362.985798	1181.996537	C	<b>1434.664169</b>	717.835723	1417.637620	709.322448	1416.653604	708.830440	13
17	2452.033477	1226.520376	2435.006928	1218.007102	2434.022912	1217.515094	A	<b>1274.633520</b>	637.820398	1257.606971	629.307124	1256.622955	628.815116	12
18	<b>2553.081156</b>	1277.044216	2536.054607	1268.530941	2535.070591	1268.038933	T	<b>1203.596406</b>	602.301841	1186.569857	593.788567	1185.585841	593.296559	11
19	<b>2610.102620</b>	1305.554948	2593.076071	1297.041673	2592.092055	1296.549665	G	<b>1102.548727</b>	551.778002	1085.522178	543.264727	1084.538162	542.772719	10
20	2723.186684	1362.096980	2706.160135	1353.583705	2705.176119	1353.091697	I	<b>1045.527263</b>	523.267270	1028.500714	514.753995	1027.516698	514.261987	9
21	<b>2810.218712</b>	1405.612994	2793.192163	<b>1397.099719</b>	2792.208147	<b>1396.607711</b>	S	<b>932.443199</b>	466.725238	915.416650	458.211963	914.432634	457.719955	8
22	2923.302776	1462.155026	2906.276227	1453.641751	2905.292211	1453.149743	L	<b>845.411171</b>	423.209224	828.384622	414.695949	827.400606	414.203941	7
23	2994.339890	1497.673583	2977.313341	1489.160308	2976.329325	1488.668301	A	<b>732.327107</b>	366.667192	715.300558	358.153917	714.316542	357.661909	6
24	3108.382817	1554.695047	3091.356268	1546.181772	3090.372252	1545.689764	N	<b>661.289993</b>	331.148635	644.263444	322.635360	643.279428	322.143352	5
25	3237.425410	1619.216343	3220.398861	1610.703069	3219.414845	1610.211061	E	<b>547.247066</b>	274.127171	530.220517	265.613897	529.236501	265.121889	4
26	3365.483988	1683.245632	3348.457439	1674.732358	3347.473423	1674.240350	Q	<b>418.204473</b>	209.605874	401.177924	201.092600	400.193908	200.600592	3
27	3480.510931	1740.759104	3463.484382	1732.245829	3462.500366	1731.753821	D	290.145895	145.576585	273.119346	137.063311	272.135330	136.571303	2
28							R	175.118952	88.063114	<b>158.092403</b>	79.549839			1



NCBI BLAST search of **MVQEQCCHSQLEELHCATGISLANEQDR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
64.7	3653.615311	0.005945	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>
64.7	3653.615311	0.005945	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>
56.2	3653.615311	0.005945	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GYQLSDVDGVTCEIDICALPTGGHICSYR**

Found in **FBLN1\_HUMAN**, Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=4

Match to Query 60925: 3697.607656 from(925.409190,4+) rtinseconds(2306) index(33637)

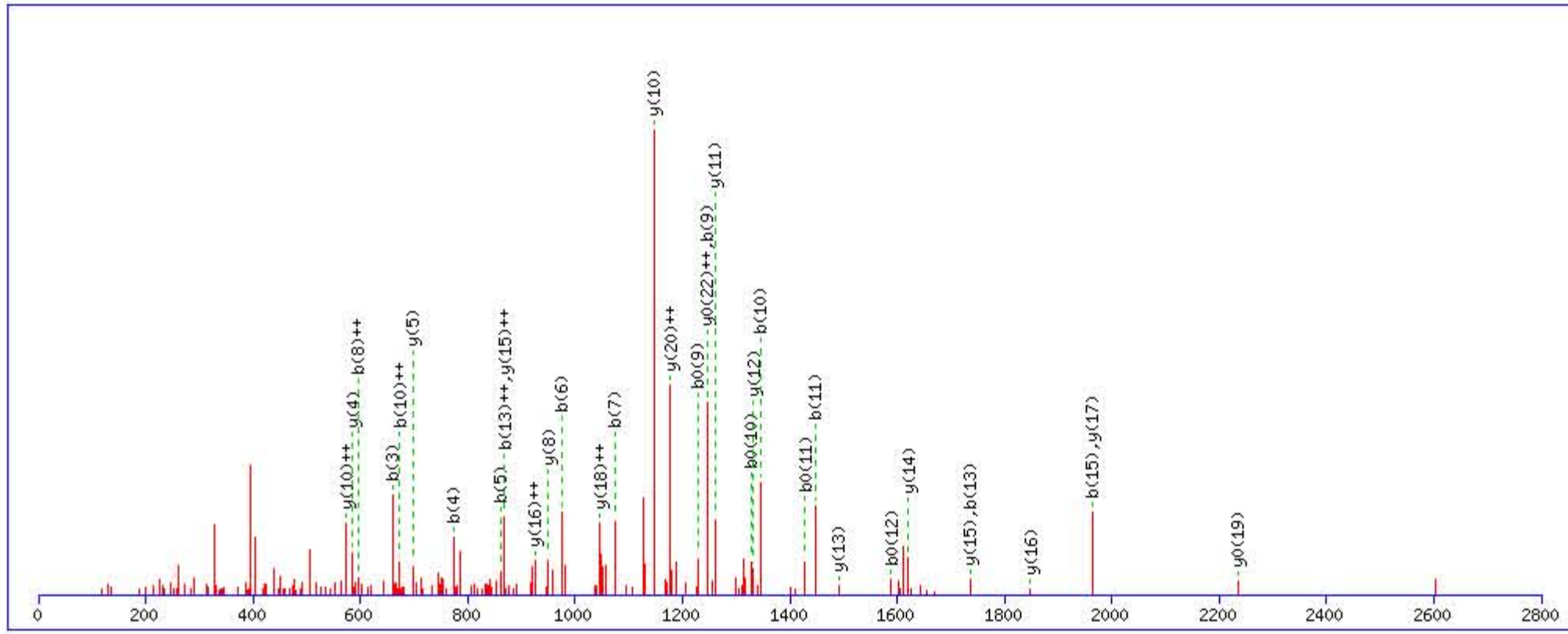
Title: Locus:1.1.1.3466.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3697.615738

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

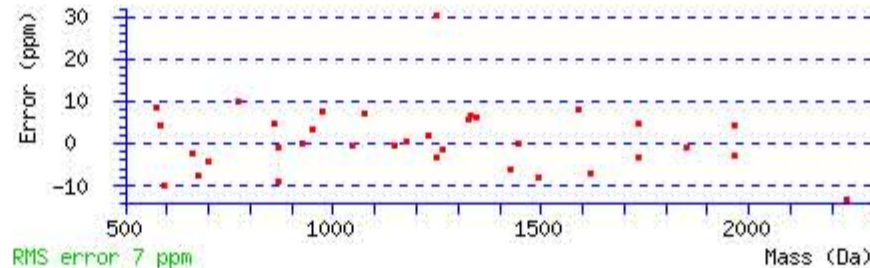
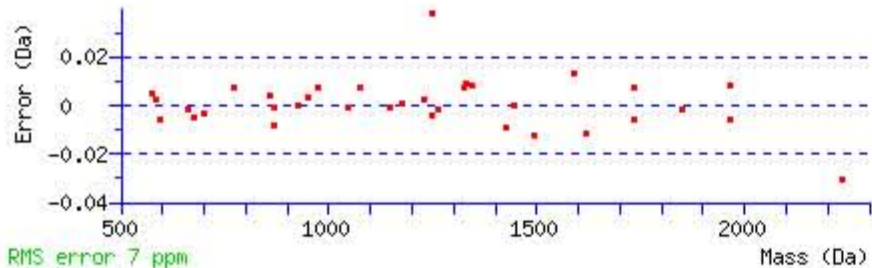
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 75 Expect: 1.2e-007

Matches : 35/392 fragment ions using 54 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							30
2	221.092069	111.049673					Y	3641.601521	1821.304398	3624.574972	1812.791124	3623.590956	1812.299116	29
3	<b>660.317395</b>	330.662336	643.290846	322.149061			Q	3478.538192	1739.772734	3461.511643	1731.259459	3460.527627	1730.767451	28
4	<b>773.401459</b>	387.204368	756.374910	378.691093			L	3039.312866	1520.160071	3022.286317	1511.646796	3021.302301	1511.154788	27
5	<b>860.433487</b>	430.720382	843.406938	422.207107	842.422922	421.715099	S	2926.228802	1463.618039	2909.202253	1455.104764	2908.218237	1454.612756	26
6	<b>975.460430</b>	488.233853	958.433881	479.720578	957.449865	479.228570	D	2839.196774	1420.102025	2822.170225	1411.588750	2821.186209	1411.096742	25
7	<b>1074.528844</b>	537.768060	1057.502295	529.254786	1056.518279	528.762777	V	2724.169831	1362.588553	2707.143282	1354.075279	2706.159266	1353.583271	24
8	1189.555787	<b>595.281532</b>	1172.529238	586.768257	1171.545222	586.276249	D	2625.101417	1313.054346	2608.074868	1304.541072	2607.090852	1304.049064	23
9	<b>1246.577251</b>	623.792263	1229.550702	615.278989	<b>1228.566686</b>	614.786981	G	2510.074474	1255.540875	2493.047925	1247.027600	2492.063909	<b>1246.535592</b>	22
10	<b>1345.645665</b>	<b>673.326471</b>	1328.619116	664.813196	<b>1327.635100</b>	664.321188	V	2453.053010	1227.030143	2436.026461	1218.516868	2435.042445	1218.024860	21
11	<b>1446.693344</b>	723.850310	1429.666795	715.337036	<b>1428.682779</b>	714.845028	T	2353.984596	<b>1177.495936</b>	2336.958047	1168.982661	2335.974031	1168.490653	20
12	1606.723993	803.865635	1589.697444	795.352360	<b>1588.713428</b>	794.860352	C	2252.936917	1126.972096	2235.910368	1118.458822	<b>2234.926352</b>	1117.966814	19
13	<b>1735.766586</b>	<b>868.386931</b>	1718.740037	859.873657	1717.756021	859.381648	E	2092.906268	<b>1046.956772</b>	2075.879719	1038.443497	2074.895703	1037.951489	18
14	1850.793529	925.900403	1833.766980	917.387128	1832.782964	916.895120	D	<b>1963.863675</b>	982.435475	1946.837126	973.922201	1945.853110	973.430193	17
15	<b>1963.877593</b>	982.442434	1946.851044	973.929160	1945.867028	973.437152	I	<b>1848.836732</b>	<b>924.922004</b>	1831.810183	916.408729	1830.826167	915.916721	16
16	2078.904536	1039.955906	2061.877987	1031.442631	2060.893971	1030.950623	D	<b>1735.752668</b>	<b>868.379972</b>	1718.726119	859.866697	1717.742103	859.374689	15
17	2207.947129	1104.477202	2190.920580	1095.963928	2189.936564	1095.471920	E	<b>1620.725725</b>	810.866501	1603.699176	802.353226	1602.715160	801.861218	14
18	2367.977778	1184.492527	2350.951229	1175.979252	2349.967213	1175.487244	C	<b>1491.683132</b>	746.345204	1474.656583	737.831930	1473.672567	737.339921	13
19	2439.014892	1220.011084	2421.988343	1211.497809	2421.004327	1211.005801	A	<b>1331.652483</b>	666.329880	1314.625934	657.816605	1313.641918	657.324597	12
20	2552.098956	1276.553116	2535.072407	1268.039841	2534.088391	1267.547833	L	<b>1260.615369</b>	630.811322	1243.588820	622.298048	1242.604804	621.806040	11
21	2649.151720	1325.079498	2632.125171	1316.566223	2631.141155	1316.074215	P	<b>1147.531305</b>	<b>574.269290</b>	1130.504756	565.756016	1129.520740	565.264008	10
22	2750.199399	1375.603337	2733.172850	1367.090063	2732.188834	1366.598055	T	1050.478541	525.742908	1033.451992	517.229634	1032.467976	516.737626	9
23	2807.220863	1404.114069	2790.194314	1395.600795	2789.210298	1395.108787	G	<b>949.430862</b>	475.219069	932.404313	466.705794	931.420297	466.213786	8
24	2864.242327	1432.624801	2847.215778	1424.111527	2846.231762	1423.619519	G	892.409398	446.708337	875.382849	438.195063	874.398833	437.703055	7
25	3001.301239	1501.154257	2984.274690	1492.640983	2983.290674	1492.148975	H	835.387934	418.197605	818.361385	409.684331	817.377369	409.192323	6
26	3114.385303	1557.696289	3097.358754	1549.183015	3096.374738	1548.691007	I	<b>698.329022</b>	349.668149	681.302473	341.154875	680.318457	340.662867	5
27	3274.415952	1637.711614	3257.389403	1629.198339	3256.405387	1628.706331	C	<b>585.244958</b>	293.126117	568.218409	284.612843	567.234393	284.120835	4
28	3361.447980	1681.227628	3344.421431	1672.714353	3343.437415	1672.222345	S	425.214309	213.110793	408.187760	204.597518	407.203744	204.105510	3
29	3524.511309	1762.759292	3507.484760	1754.246018	3506.500744	1753.754010	Y	338.182281	169.594778	321.155732	161.081504			2
30							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GYQLSDVDGVTCEIDICALPTGGHICSYR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
74.9	3697.615738	-0.008082	<a href="#">GYQLSDVDGVTCEIDICALPTGGHICSYR</a>

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

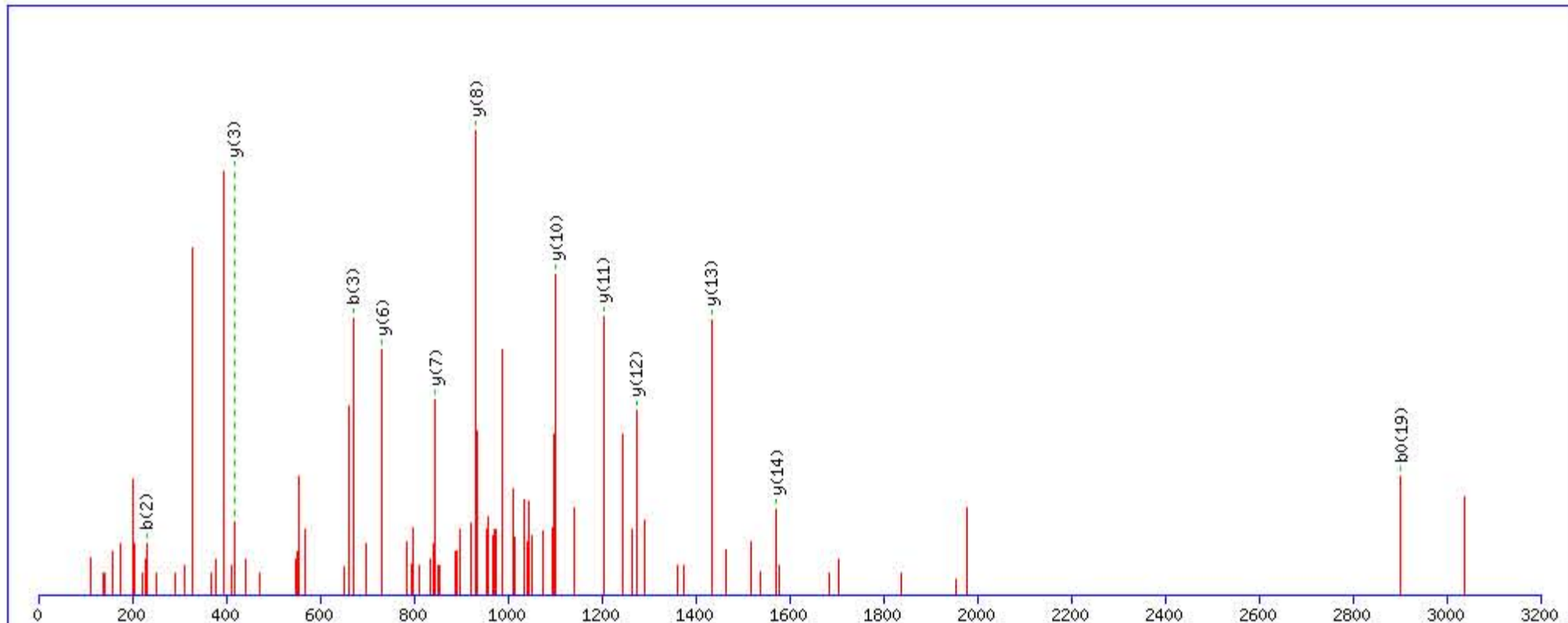
**Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **MVQEQCCHSQLEELHCATGISLANEQDR**  
 Found in **FBLN1\_HUMAN**, Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=4

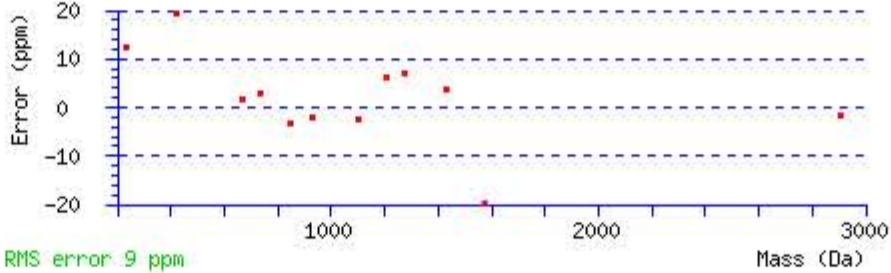
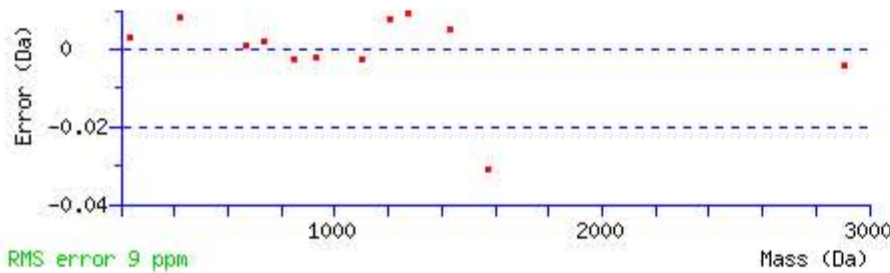
Match to Query 62116: 3964.776416 from(992.201380,4+) rtinseconds(2223) index(33171)  
 Title: Locus:1.1.1.3437.25 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from 0 to 3200 Da Full range  
 Label all possible matches  Label matches used for scoring



**Monoisotopic mass of neutral peptide Mr(calc): 3964.782059**  
**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)  
**Variable modifications:**  
 Q3 : Biotin:Thermo-21345 (Q)  
 Q10 : Biotin:Thermo-21345 (Q)  
**Ions Score: 46 Expect: 5e-005**  
**Matches : 12/312 fragment ions using 20 most intense peaks (help)**

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							28
2	<b>231.116175</b>	116.061725					V	3834.748870	1917.878073	3817.722321	1909.364798	3816.738305	1908.872790	27
3	<b>670.341501</b>	335.674389	653.314952	327.161114			Q	3735.680456	1868.343866	3718.653907	1859.830591	3717.669891	1859.338583	26
4	799.384094	400.195685	782.357545	391.682411	781.373529	391.190403	E	3296.455130	1648.731203	3279.428581	1640.217928	3278.444565	1639.725920	25
5	927.442672	464.224974	910.416123	455.711700	909.432107	455.219692	Q	3167.412537	1584.209906	3150.385988	1575.696632	3149.401972	1575.204624	24
6	1087.473321	544.240299	1070.446772	535.727024	1069.462756	535.235016	C	3039.353959	1520.180617	3022.327410	1511.667343	3021.343394	1511.175335	23
7	1247.503970	624.255623	1230.477421	615.742349	1229.493405	615.250341	C	2879.323310	1440.165293	2862.296761	1431.652018	2861.312745	1431.160010	22
8	1384.562882	692.785079	1367.536333	684.271805	1366.552317	683.779797	H	2719.292661	1360.149968	2702.266112	1351.636694	2701.282096	1351.144686	21
9	1471.594910	736.301093	1454.568361	727.787819	1453.584345	727.295811	S	2582.233749	1291.620512	2565.207200	1283.107238	2564.223184	1282.615230	20
10	1910.820236	955.913756	1893.793687	947.400482	1892.809671	946.908474	Q	2495.201721	1248.104498	2478.175172	1239.591224	2477.191156	1239.099216	19
11	2023.904300	1012.455788	2006.877751	1003.942514	2005.893735	1003.450506	L	2055.976395	1028.491835	2038.949846	1019.978561	2037.965830	1019.486553	18
12	2152.946893	1076.977084	2135.920344	1068.463810	2134.936328	1067.971802	E	1942.892331	971.949804	1925.865782	963.436529	1924.881766	962.944521	17
13	2281.989486	1141.498381	2264.962937	1132.985106	2263.978921	1132.493098	E	1813.849738	907.428507	1796.823189	898.915233	1795.839173	898.423225	16
14	2395.073550	1198.040413	2378.047001	1189.527138	2377.062985	1189.035130	L	1684.807145	842.907211	1667.780596	834.393936	1666.796580	833.901928	15
15	2532.132462	1266.569869	2515.105913	1258.056594	2514.121897	1257.564586	H	<b>1571.723081</b>	786.365179	1554.696532	777.851904	1553.712516	777.359896	14
16	2692.163111	1346.585193	2675.136562	1338.071919	2674.152546	1337.579911	C	<b>1434.664169</b>	717.835723	1417.637620	709.322448	1416.653604	708.830440	13
17	2763.200225	1382.103750	2746.173676	1373.590476	2745.189660	1373.098468	A	<b>1274.633520</b>	637.820398	1257.606971	629.307124	1256.622955	628.815116	12
18	2864.247904	1432.627590	2847.221355	1424.114315	2846.237339	1423.622307	T	<b>1203.596406</b>	602.301841	1186.569857	593.788567	1185.585841	593.296559	11
19	2921.269368	1461.138322	2904.242819	1452.625047	<b>2903.258803</b>	1452.133039	G	<b>1102.548727</b>	551.778002	1085.522178	543.264727	1084.538162	542.772719	10
20	3034.353432	1517.680354	3017.326883	1509.167079	3016.342867	1508.675071	I	1045.527263	523.267270	1028.500714	514.753995	1027.516698	514.261987	9
21	3121.385460	1561.196368	3104.358911	1552.683093	3103.374895	1552.191085	S	<b>932.443199</b>	466.725238	915.416650	458.211963	914.432634	457.719955	8
22	3234.469524	1617.738400	3217.442975	1609.225125	3216.458959	1608.733117	L	<b>845.411171</b>	423.209224	828.384622	414.695949	827.400606	414.203941	7
23	3305.506638	1653.256957	3288.480089	1644.743683	3287.496073	1644.251675	A	<b>732.327107</b>	366.667192	715.300558	358.153917	714.316542	357.661909	6
24	3419.549565	1710.278421	3402.523016	1701.765146	3401.539000	1701.273138	N	661.289993	331.148635	644.263444	322.635360	643.279428	322.143352	5
25	3548.592158	1774.799717	3531.565609	1766.286443	3530.581593	1765.794435	E	547.247066	274.127171	530.220517	265.613897	529.236501	265.121889	4
26	3676.650736	1838.829006	3659.624187	1830.315732	3658.640171	1829.823724	Q	<b>418.204473</b>	209.605874	401.177924	201.092600	400.193908	200.600592	3
27	3791.677679	1896.342478	3774.651130	1887.829203	3773.667114	1887.337195	D	290.145895	145.576585	273.119346	137.063311	272.135330	136.571303	2
28							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **MVQEQCCHSQLEELHCATGISLANEQDR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
46.2	3964.782059	-0.005643	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>
46.2	3964.782059	-0.005643	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>
37.8	3964.782059	-0.005643	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>
0.4	3964.786865	-0.010449	<a href="#">SSSDSSYMSGSPGGSPGSGSAEKPSSDVIDISTHSPSLPLAR</a>

# {MATRIX} {SCIENCE} Mascot Search Results

## Peptide View

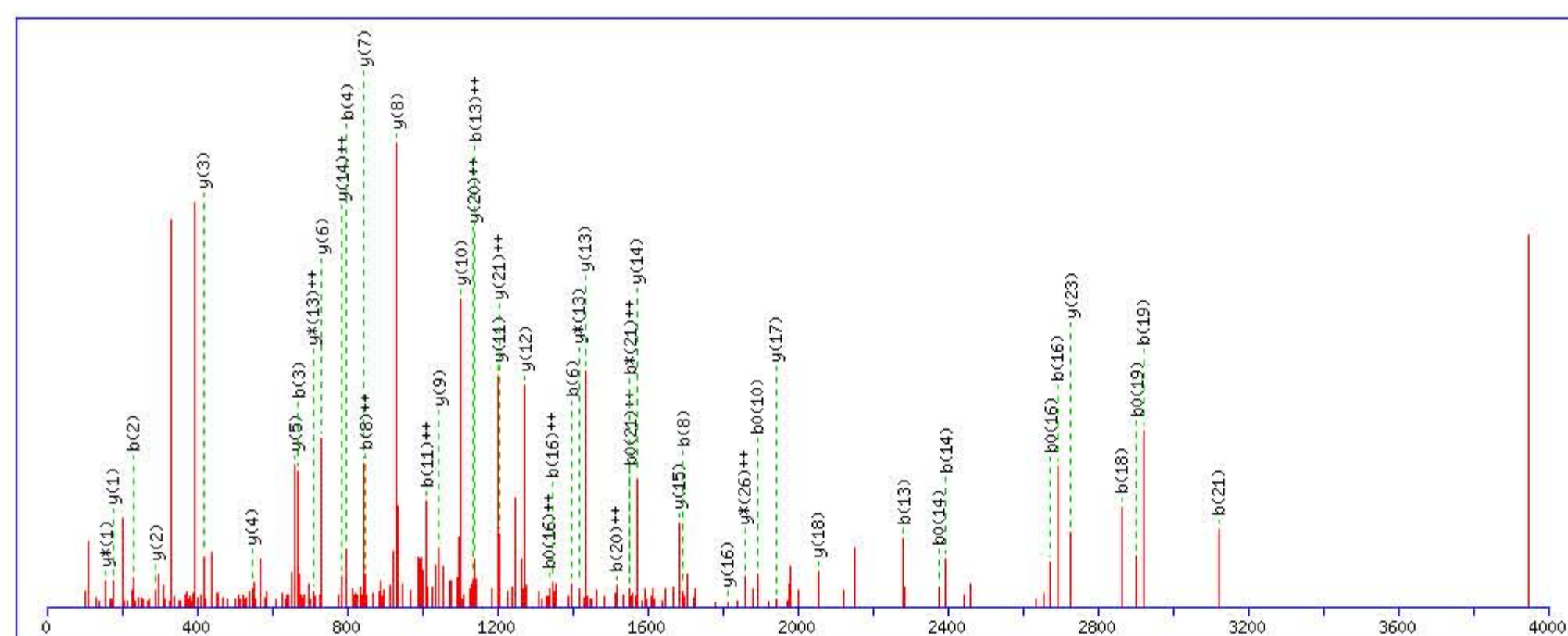
MS/MS Fragmentation of **MVQEQCCHSQLEELHCATGISLANEQDR**  
 Found in **FBLN1\_HUMAN**, Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=4

Match to Query 62118: 3964.781976 from(992.202770,4+) rtinseconds(2151) index(32746)  
 Title: Locus:1.1.1.3412.19 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

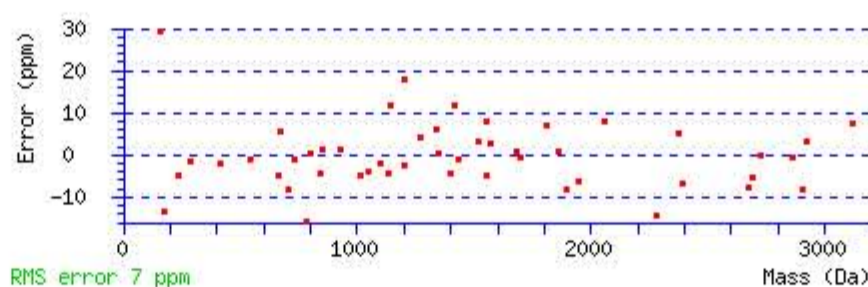
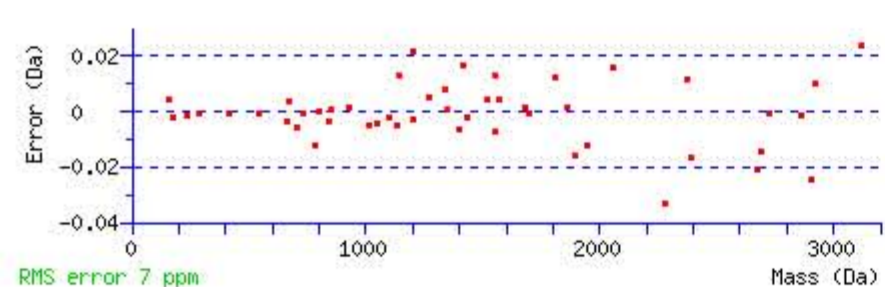
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 3964.782059  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q3 : Biotin:Thermo-21345 (Q)  
 Q5 : Biotin:Thermo-21345 (Q)  
 Ions Score: 81 Expect: 7.6e-008  
 Matches : 49/312 fragment ions using 115 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					<b>M</b>							28
2	<b>231.116175</b>	116.061725					<b>V</b>	3834.748870	1917.878073	3817.722321	1909.364798	3816.738305	1908.872790	27
3	<b>670.341501</b>	335.674389	653.314952	327.161114			<b>Q</b>	3735.680456	1868.343866	3718.653907	<b>1859.830591</b>	3717.669891	1859.338583	26
4	<b>799.384094</b>	400.195685	782.357545	391.682411	781.373529	391.190403	<b>E</b>	3296.455130	1648.731203	3279.428581	1640.217928	3278.444565	1639.725920	25
5	1238.609420	619.808348	1221.582871	611.295074	1220.598855	610.803066	<b>Q</b>	3167.412537	1584.209906	3150.385988	1575.696632	3149.401972	1575.204624	24
6	<b>1398.640069</b>	699.823673	1381.613520	691.310398	1380.629504	690.818390	<b>C</b>	<b>2728.187211</b>	1364.597243	2711.160662	1356.083969	2710.176646	1355.591961	23
7	1558.670718	779.838997	1541.644169	771.325723	1540.660153	770.833715	<b>C</b>	2568.156562	1284.581919	2551.130013	1276.068644	2550.145997	1275.576636	22
8	<b>1695.729630</b>	<b>848.368453</b>	1678.703081	839.855179	1677.719065	839.363171	<b>H</b>	2408.125913	<b>1204.566594</b>	2391.099364	1196.053320	2390.115348	1195.561312	21
9	1782.761658	891.884467	1765.735109	883.371193	1764.751093	882.879185	<b>S</b>	2271.067001	<b>1136.037138</b>	2254.040452	1127.523864	2253.056436	1127.031856	20
10	1910.820236	955.913756	1893.793687	947.400482	<b>1892.809671</b>	946.908474	<b>Q</b>	2184.034973	1092.521124	2167.008424	1084.007850	2166.024408	1083.515842	19
11	2023.904300	<b>1012.455788</b>	2006.877751	1003.942514	2005.893735	1003.450506	<b>L</b>	<b>2055.976395</b>	1028.491835	2038.949846	1019.978561	2037.965830	1019.486553	18
12	2152.946893	1076.977084	2135.920344	1068.463810	2134.936328	1067.971802	<b>E</b>	<b>1942.892331</b>	971.949804	1925.865782	963.436529	1924.881766	962.944521	17
13	<b>2281.989486</b>	<b>1141.498381</b>	2264.962937	1132.985106	2263.978921	1132.493098	<b>E</b>	<b>1813.849738</b>	907.428507	1796.823189	898.915233	1795.839173	898.423225	16
14	<b>2395.073550</b>	1198.040413	2378.047001	1189.527138	<b>2377.062985</b>	1189.035130	<b>L</b>	<b>1684.807145</b>	842.907211	1667.780596	834.393936	1666.796580	833.901928	15
15	2532.132462	1266.569869	2515.105913	1258.056594	2514.121897	1257.564586	<b>H</b>	<b>1571.723081</b>	<b>786.365179</b>	1554.696532	777.851904	1553.712516	777.359896	14
16	<b>2692.163111</b>	<b>1346.585193</b>	2675.136562	1338.071919	<b>2674.152546</b>	<b>1337.579911</b>	<b>C</b>	<b>1434.664169</b>	717.835723	<b>1417.637620</b>	<b>709.322448</b>	1416.653604	708.830440	13
17	2763.200225	1382.103750	2746.173676	1373.590476	2745.189660	1373.098468	<b>A</b>	<b>1274.633520</b>	637.820398	1257.606971	629.307124	1256.622955	628.815116	12
18	<b>2864.247904</b>	1432.627590	2847.221355	1424.114315	2846.237339	1423.622307	<b>T</b>	<b>1203.596406</b>	602.301841	1186.569857	593.788567	1185.585841	593.296559	11
19	<b>2921.269368</b>	1461.138322	2904.242819	1452.625047	<b>2903.258803</b>	1452.133039	<b>G</b>	<b>1102.548727</b>	551.778002	1085.522178	543.264727	1084.538162	542.772719	10
20	3034.353432	<b>1517.680354</b>	3017.326883	1509.167079	3016.342867	1508.675071	<b>I</b>	<b>1045.527263</b>	523.267270	1028.500714	514.753995	1027.516698	514.261987	9
21	<b>3121.385460</b>	1561.196368	3104.358911	<b>1552.683093</b>	3103.374895	<b>1552.191085</b>	<b>S</b>	<b>932.443199</b>	466.725238	915.416650	458.211963	914.432634	457.719955	8
22	3234.469524	1617.738400	3217.442975	1609.225125	3216.458959	1608.733117	<b>L</b>	<b>845.411171</b>	423.209224	828.384622	414.695949	827.400606	414.203941	7
23	3305.506638	1653.256957	3288.480089	1644.743683	3287.496073	1644.251675	<b>A</b>	<b>732.327107</b>	366.667192	715.300558	358.153917	714.316542	357.661909	6
24	3419.549565	1710.278421	3402.523016	1701.765146	3401.539000	1701.273138	<b>N</b>	<b>661.289993</b>	331.148635	644.263444	322.635360	643.279428	322.143352	5
25	3548.592158	1774.799717	3531.565609	1766.286443	3530.581593	1765.794435	<b>E</b>	<b>547.247066</b>	274.127171	530.220517	265.613897	529.236501	265.121889	4
26	3676.650736	1838.829006	3659.624187	1830.315732	3658.640171	1829.823724	<b>Q</b>	<b>418.204473</b>	209.605874	401.177924	201.092600	400.193908	200.600592	3
27	3791.677679	1896.342478	3774.651130	1887.829203	3773.667114	1887.337195	<b>D</b>	<b>290.145895</b>	145.576585	273.119346	137.063311	272.135330	136.571303	2
28							<b>R</b>	<b>175.118952</b>	88.063114	<b>158.092403</b>	79.549839			1



NCBI BLAST search of **MVQEQCCHSQLEELHCATGISLANEQDR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
80.5	3964.782059	-0.000083	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>
63.4	3964.782059	-0.000083	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>
60.9	3964.782059	-0.000083	<a href="#">MVQEQCCHSQLEELHCATGISLANEQDR</a>

**{MATRIX} {SCIENCE} Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **MVQEQCCHSQLEELHCATGISLANEQDR**

Found in **FBLN1\_HUMAN**, Fibulin-1 OS=Homo sapiens GN=FBLN1 PE=1 SV=4

Match to Query 64806: 4275.950016 from(1069.994780,4+) rtinseconds(2326) index(33730)

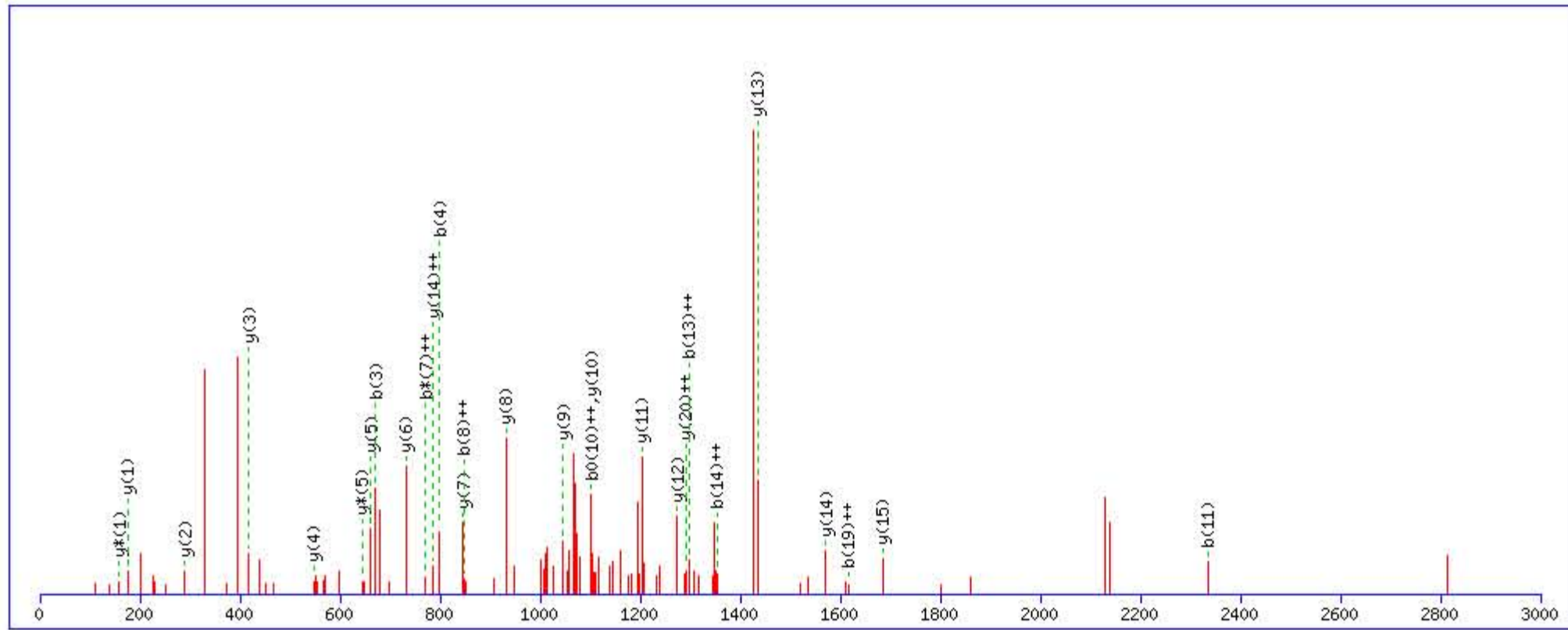
Title: Locus:1.1.1.3473.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 4275.948807

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

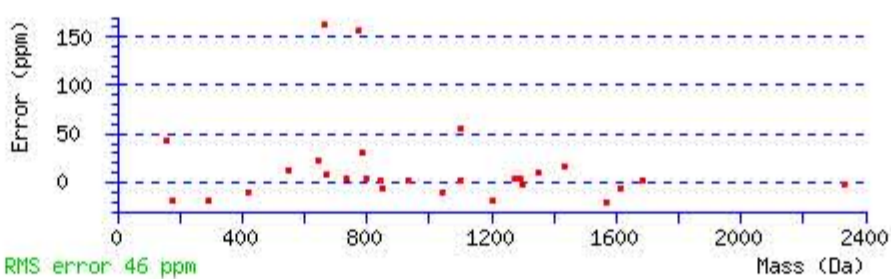
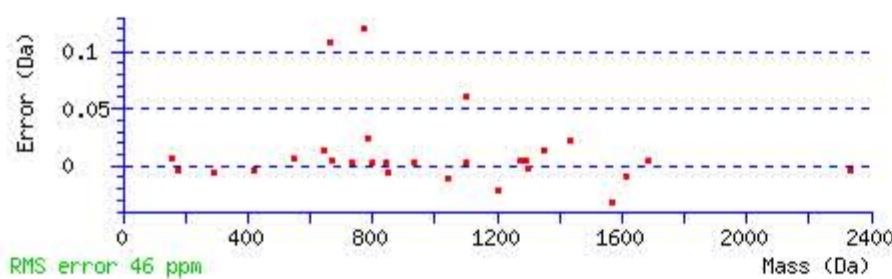
Q5 : Biotin:Thermo-21345 (Q)

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 45 Expect: 0.0003

Matches : 28/312 fragment ions using 80 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							28
2	231.116175	116.061725					V	4145.915618	2073.461447	4128.889069	2064.948173	4127.905053	2064.456165	27
3	<b>670.341501</b>	335.674389	653.314952	327.161114			Q	4046.847204	2023.927240	4029.820655	2015.413966	4028.836639	2014.921958	26
4	<b>799.384094</b>	400.195685	782.357545	391.682411	781.373529	391.190403	E	3607.621878	1804.314577	3590.595329	1795.801303	3589.611313	1795.309295	25
5	1238.609420	619.808348	1221.582871	611.295074	1220.598855	610.803066	Q	3478.579285	1739.793281	3461.552736	1731.280006	3460.568720	1730.787998	24
6	1398.640069	699.823673	1381.613520	691.310398	1380.629504	690.818390	C	3039.353959	1520.180618	3022.327410	1511.667343	3021.343394	1511.175335	23
7	1558.670718	779.838997	1541.644169	<b>771.325723</b>	1540.660153	770.833715	C	2879.323310	1440.165293	2862.296761	1431.652019	2861.312745	1431.160011	22
8	1695.729630	<b>848.368453</b>	1678.703081	839.855179	1677.719065	839.363171	H	2719.292661	1360.149969	2702.266112	1351.636694	2701.282096	1351.144686	21
9	1782.761658	891.884467	1765.735109	883.371193	1764.751093	882.879185	S	2582.233749	<b>1291.620513</b>	2565.207200	1283.107238	2564.223184	1282.615230	20
10	2221.986984	1111.497130	2204.960435	1102.983855	2203.976419	<b>1102.491847</b>	Q	2495.201721	1248.104499	2478.175172	1239.591224	2477.191156	1239.099216	19
11	<b>2335.071048</b>	1168.039162	2318.044499	1159.525888	2317.060483	1159.033880	L	2055.976395	1028.491836	2038.949846	1019.978561	2037.965830	1019.486553	18
12	2464.113641	1232.560459	2447.087092	1224.047184	2446.103076	1223.555176	E	1942.892331	971.949804	1925.865782	963.436529	1924.881766	962.944521	17
13	2593.156234	<b>1297.081755</b>	2576.129685	1288.568481	2575.145669	1288.076473	E	1813.849738	907.428507	1796.823189	898.915233	1795.839173	898.423225	16
14	2706.240298	<b>1353.623787</b>	2689.213749	1345.110513	2688.229733	1344.618505	L	<b>1684.807145</b>	842.907211	1667.780596	834.393936	1666.796580	833.901928	15
15	2843.299210	1422.153243	2826.272661	1413.639969	2825.288645	1413.147961	H	<b>1571.723081</b>	<b>786.365179</b>	1554.696532	777.851904	1553.712516	777.359896	14
16	3003.329859	1502.168568	2986.303310	1493.655293	2985.319294	1493.163285	C	<b>1434.664169</b>	717.835723	1417.637620	709.322448	1416.653604	708.830440	13
17	3074.366973	1537.687125	3057.340424	1529.173850	3056.356408	1528.681842	A	<b>1274.633520</b>	637.820398	1257.606971	629.307124	1256.622955	628.815116	12
18	3175.414652	1588.210964	3158.388103	1579.697690	3157.404087	1579.205682	T	<b>1203.596406</b>	602.301841	1186.569857	593.788567	1185.585841	593.296559	11
19	3232.436116	<b>1616.721696</b>	3215.409567	1608.208422	3214.425551	1607.716414	G	<b>1102.548727</b>	551.778002	1085.522178	543.264727	1084.538162	542.772719	10
20	3345.520180	1673.263728	3328.493631	1664.750454	3327.509615	1664.258446	I	<b>1045.527263</b>	523.267270	1028.500714	514.753995	1027.516698	514.261987	9
21	3432.552208	1716.779742	3415.525659	1708.266468	3414.541643	1707.774460	S	<b>932.443199</b>	466.725238	915.416650	458.211963	914.432634	457.719955	8
22	3545.636272	1773.321774	3528.609723	1764.808500	3527.625707	1764.316492	L	<b>845.411171</b>	423.209224	828.384622	414.695949	827.400606	414.203941	7
23	3616.673386	1808.840331	3599.646837	1800.327057	3598.662821	1799.835049	A	<b>732.327107</b>	366.667192	715.300558	358.153917	714.316542	357.661909	6
24	3730.716313	1865.861795	3713.689764	1857.348520	3712.705748	1856.856512	N	<b>661.289993</b>	331.148635	<b>644.263444</b>	322.635360	643.279428	322.143352	5
25	3859.758906	1930.383091	3842.732357	1921.869817	3841.748341	1921.377809	E	<b>547.247066</b>	274.127171	530.220517	265.613897	529.236501	265.121889	4
26	3987.817484	1994.412380	3970.790935	1985.899106	3969.806919	1985.407098	Q	<b>418.204473</b>	209.605875	401.177924	201.092600	400.193908	200.600592	3
27	4102.844427	2051.925852	4085.817878	2043.412577	4084.833862	2042.920569	D	<b>290.145895</b>	145.576586	273.119346	137.063311	272.135330	136.571303	2
28							R	<b>175.118952</b>	88.063114	<b>158.092403</b>	79.549839			1



NCBI BLAST search of **MVQEQCCHSQLEELHCATGISLANEQDR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
45.4	4275.948807	0.001209	<b>MVQEQCCHSQLEELHCATGISLANEQDR</b>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **LLGEVDHYQLALGK**

Found in **FCN3\_HUMAN**, Ficolin-3 OS=Homo sapiens GN=FCN3 PE=1 SV=2

Match to Query 36975: 1866.005862 from(623.009230,3+) rtinseconds(2227) index(20351)

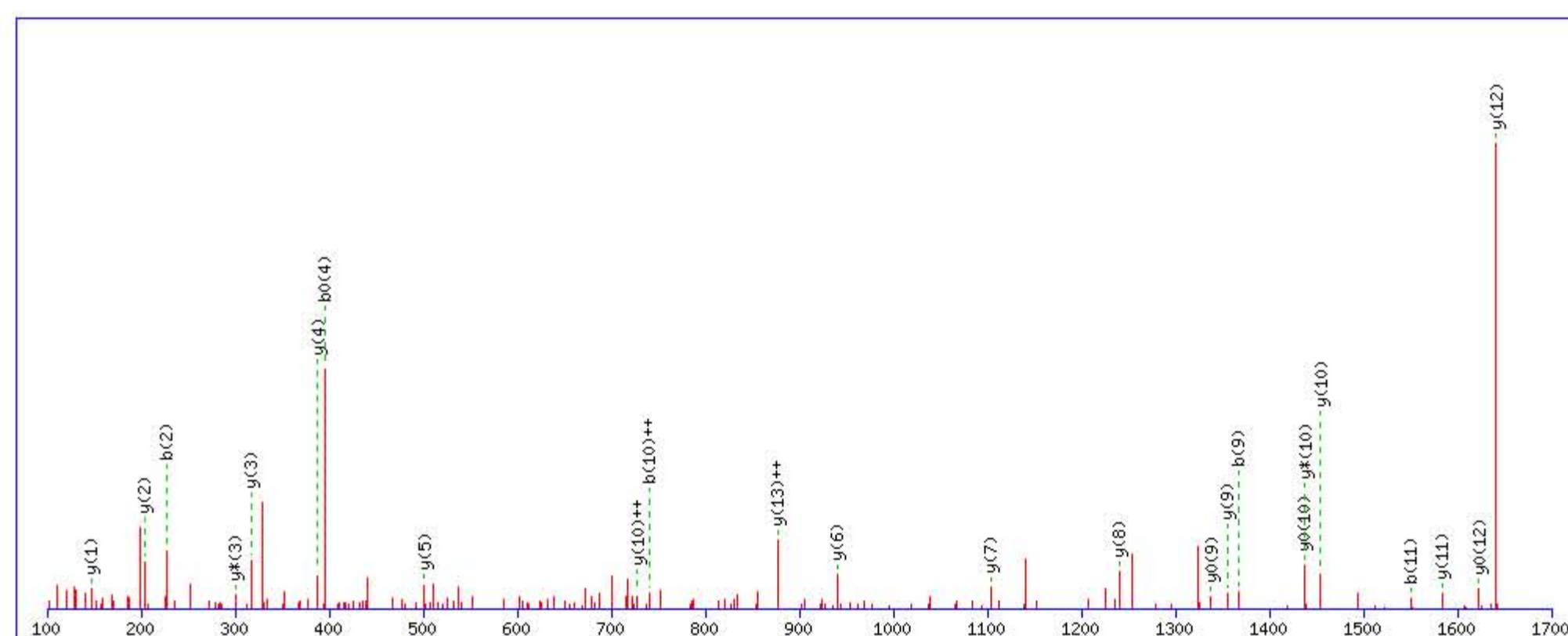
Title: Locus:1.1.1.3341.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1866.007324

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

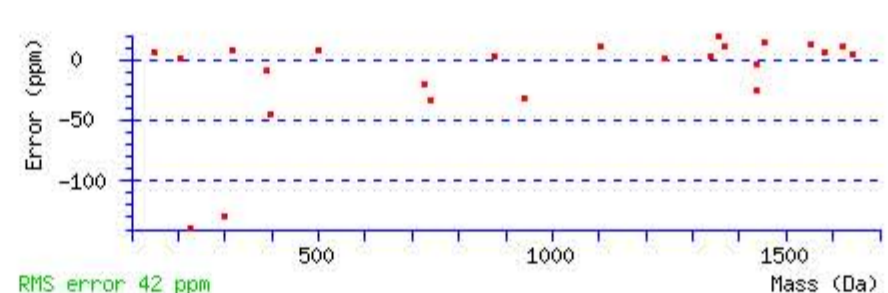
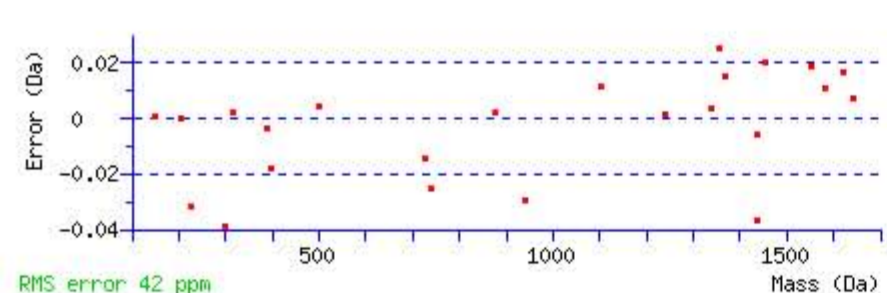
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 56 Expect: 4.9e-005

Matches : 24/118 fragment ions using 64 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							14
2	<b>227.175404</b>	114.091340					L	1753.930555	<b>877.468916</b>	1736.904006	868.955641	1735.919990	868.463633	13
3	284.196868	142.602072					G	<b>1640.846491</b>	820.926884	1623.819942	812.413609	<b>1622.835926</b>	811.921601	12
4	413.239461	207.123369			<b>395.228896</b>	198.118086	E	<b>1583.825027</b>	792.416152	1566.798478	783.902877	1565.814462	783.410869	11
5	512.307875	256.657576			494.297310	247.652293	V	<b>1454.782434</b>	<b>727.894855</b>	<b>1437.755885</b>	719.381581	<b>1436.771869</b>	718.889572	10
6	627.334818	314.171047			609.324253	305.165765	D	<b>1355.714020</b>	678.360648	1338.687471	669.847374	<b>1337.703455</b>	669.355366	9
7	764.393730	382.700503			746.383165	373.695221	H	<b>1240.687077</b>	620.847177	1223.660528	612.333902			8
8	927.457059	464.232168			909.446494	455.226885	Y	<b>1103.628165</b>	552.317721	1086.601616	543.804446			7
9	<b>1366.682385</b>	683.844831	1349.655836	675.331556	1348.671820	674.839548	Q	<b>940.564836</b>	470.786056	923.538287	462.272782			6
10	1479.766449	<b>740.386863</b>	1462.739900	731.873588	1461.755884	731.381580	L	<b>501.339510</b>	251.173393	484.312961	242.660118			5
11	<b>1550.803563</b>	775.905420	1533.777014	767.392145	1532.792998	766.900137	A	<b>388.255446</b>	194.631361	371.228897	186.118086			4
12	1663.887627	832.447452	1646.861078	823.934177	1645.877062	823.442169	L	<b>317.218332</b>	159.112804	<b>300.191783</b>	150.599529			3
13	1720.909091	860.958184	1703.882542	852.444909	1702.898526	851.952901	G	<b>204.134268</b>	102.570772	187.107719	94.057497			2
14							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [LLGEVDHYQLALGK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
56.4	1866.007324	-0.001462	<a href="#">LLGEVDHYQLALGK</a>

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



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **KSQLVYQSR**

Found in **LG3BP\_HUMAN**, Galectin-3-binding protein OS=Homo sapiens GN=LGALS3BP PE=1 SV=1

Match to Query 24663: 1418.772768 from(710.393660,2+) rtinseconds(1546) index(43177)

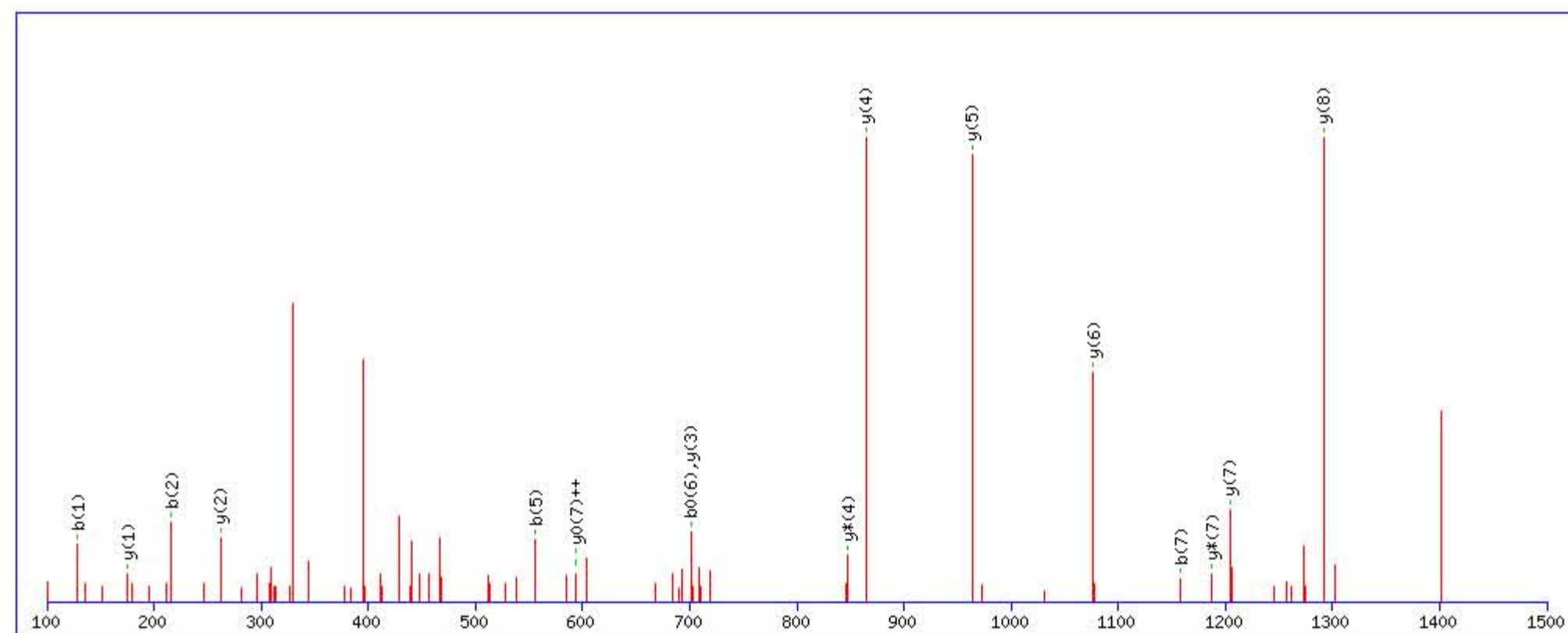
Title: Locus:1.1.1.3251.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1418.770386

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

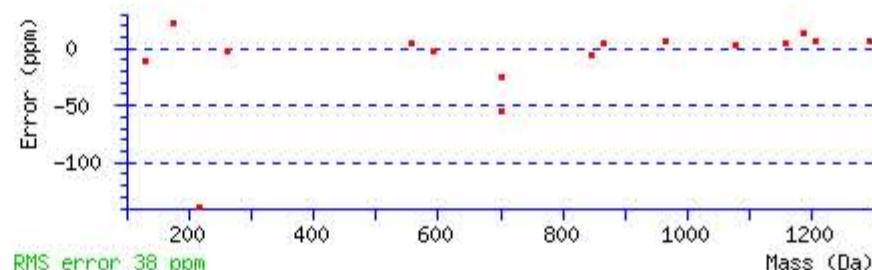
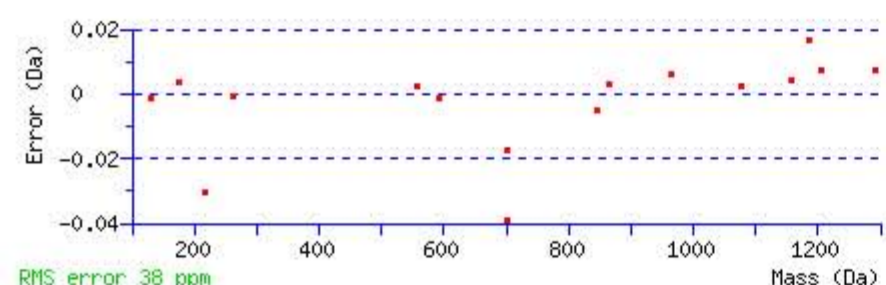
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 59 Expect: 2e-005

Matches : 16/92 fragment ions using 26 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>129.102239</b>	65.054757	112.075690	56.541483			<b>K</b>							9
2	<b>216.134267</b>	108.570771	199.107718	100.057497	198.123702	99.565489	<b>S</b>	<b>1291.682719</b>	646.344998	1274.656170	637.831723	1273.672154	637.339715	8
3	344.192845	172.600060	327.166296	164.086786	326.182280	163.594778	<b>Q</b>	<b>1204.650691</b>	602.828984	<b>1187.624142</b>	594.315709	1186.640126	<b>593.823701</b>	7
4	457.276909	229.142092	440.250360	220.628818	439.266344	220.136810	<b>L</b>	<b>1076.592113</b>	538.799695	1059.565564	530.286420	1058.581548	529.794412	6
5	<b>556.345323</b>	278.676300	539.318774	270.163025	538.334758	269.671017	<b>V</b>	<b>963.508049</b>	482.257663	946.481500	473.744388	945.497484	473.252380	5
6	719.408652	360.207964	702.382103	351.694690	<b>701.398087</b>	351.202682	<b>Y</b>	<b>864.439635</b>	432.723456	<b>847.413086</b>	424.210181	846.429070	423.718173	4
7	<b>1158.633978</b>	579.820627	1141.607429	571.307353	1140.623413	570.815345	<b>Q</b>	<b>701.376306</b>	351.191791	684.349757	342.678517	683.365741	342.186509	3
8	1245.666006	623.336641	1228.639457	614.823367	1227.655441	614.331359	<b>S</b>	<b>262.150980</b>	131.579128	245.124431	123.065854	244.140415	122.573846	2
9							<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **KSQLVYQSR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
58.5	1418.770386	0.002382	<a href="#">KSQLVYQSR</a>
11.7	1418.770386	0.002382	<a href="#">KSQLVYQSR</a>
7.9	1418.788147	-0.015379	<a href="#">QSQVDRLYVALK</a>
5.6	1418.780273	-0.007505	<a href="#">TNQLMETLKTIK</a>
3.8	1418.778259	-0.005491	<a href="#">RVSLPQWPPPSR</a>
0.3	1418.787659	-0.014891	<a href="#">KEILLAMLVVDK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SQLVYQSR**

Found in **LG3BP\_HUMAN**, Galectin-3-binding protein OS=Homo sapiens GN=LGALS3BP PE=1 SV=1

Match to Query 30624: 1601.839452 from(534.953760,3+) rtinseconds(2092) index(46537)

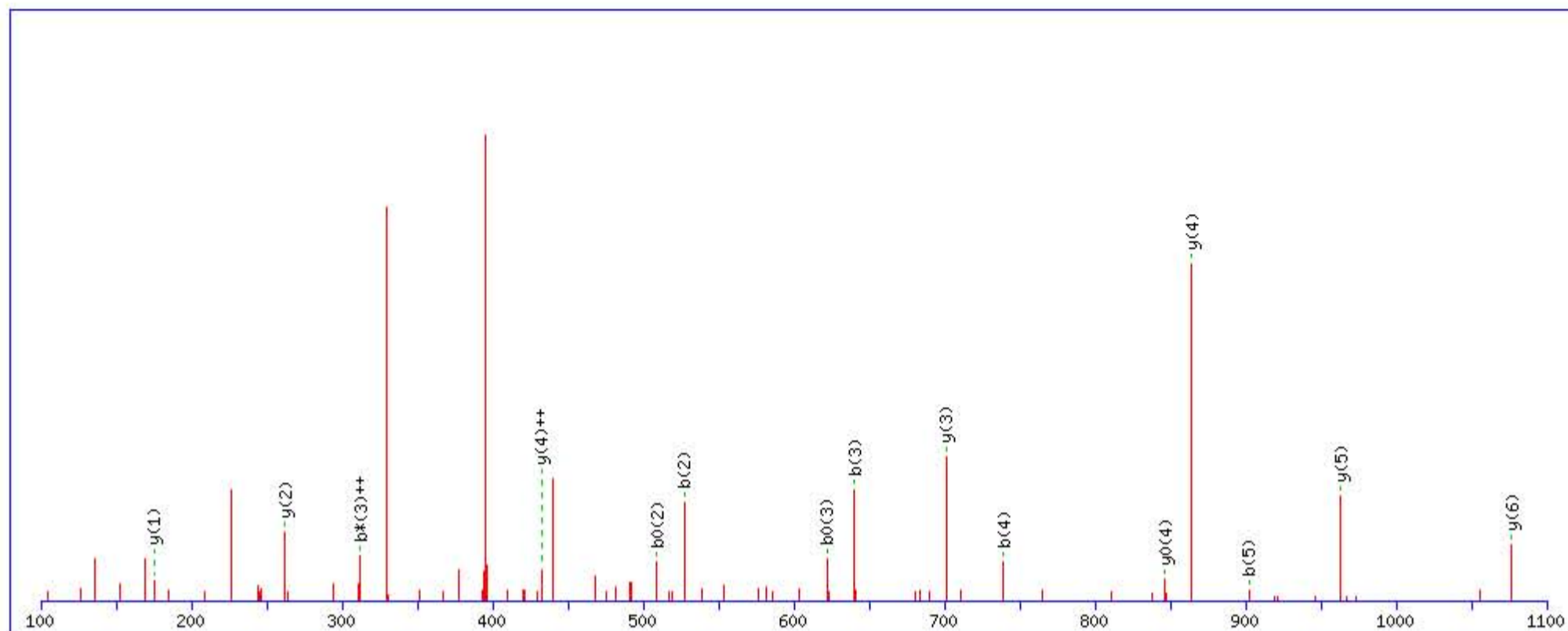
Title: Locus:1.1.1.3441.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1601.842178

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

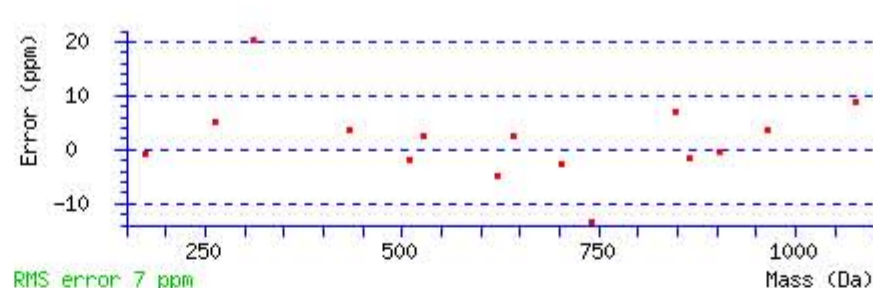
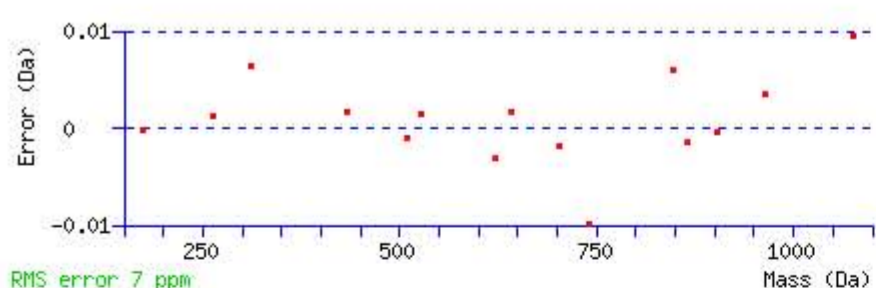
Q2 : Biotin:Thermo-21345 (Q)

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.012

Matches : 15/80 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							8
2	<b>527.264630</b>	264.135953	510.238081	255.622679	<b>509.254065</b>	255.130671	Q	1515.817439	758.412358	1498.790890	749.899083	1497.806874	749.407075	7
3	<b>640.348694</b>	320.677985	623.322145	<b>312.164711</b>	<b>622.338129</b>	311.672703	L	<b>1076.592113</b>	538.799695	1059.565564	530.286420	1058.581548	529.794412	6
4	<b>739.417108</b>	370.212192	722.390559	361.698917	721.406543	361.206909	V	<b>963.508049</b>	482.257663	946.481500	473.744388	945.497484	473.252380	5
5	<b>902.480437</b>	451.743856	885.453888	443.230582	884.469872	442.738574	Y	<b>864.439635</b>	<b>432.723456</b>	847.413086	424.210181	<b>846.429070</b>	423.718173	4
6	1341.705763	671.356520	1324.679214	662.843245	1323.695198	662.351237	Q	<b>701.376306</b>	351.191791	684.349757	342.678517	683.365741	342.186509	3
7	1428.737791	714.872534	1411.711242	706.359259	1410.727226	705.867251	S	<b>262.150980</b>	131.579128	245.124431	123.065854	244.140415	122.573846	2
8							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [SQLVYQSR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
26.1	1601.842178	-0.002726	<a href="#">SQLVYQSR</a>
5.8	1601.846024	-0.006572	<a href="#">RFVLSCSLLSHQK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **ELSEALGQIFDSQR**

Found in **LG3BP\_HUMAN**, Galectin-3-binding protein OS=Homo sapiens GN=LGALS3BP PE=1 SV=1

Match to Query 37448: 1902.955872 from(635.325900,3+) rtinseconds(2701) index(50077)

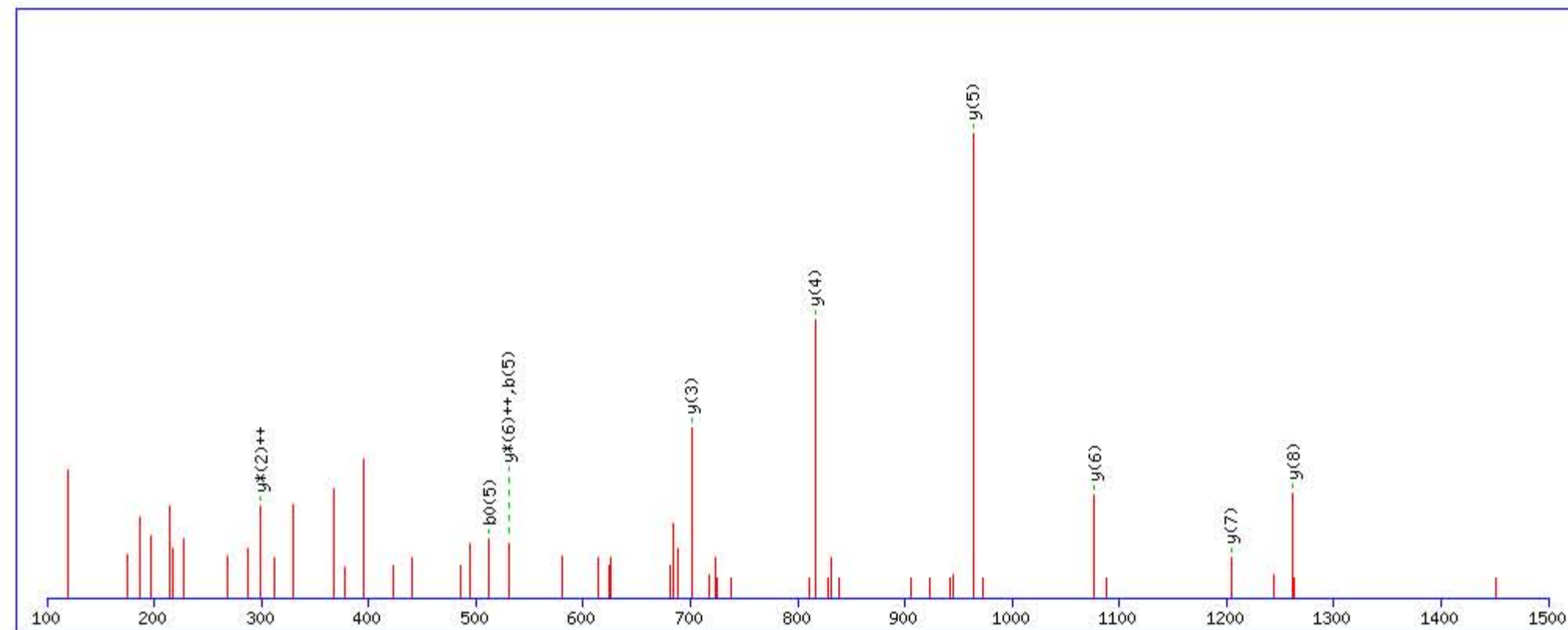
Title: Locus:1.1.1.3652.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1902.950928

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

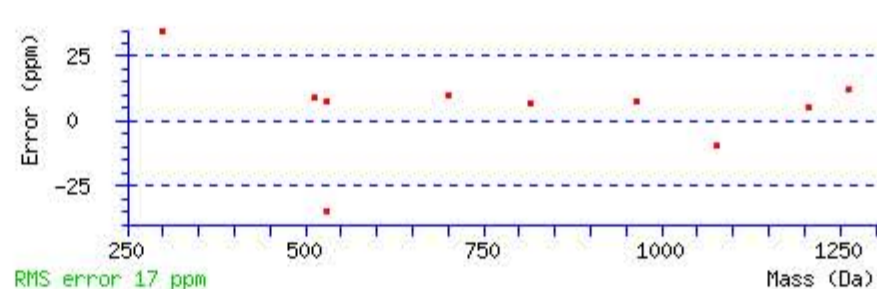
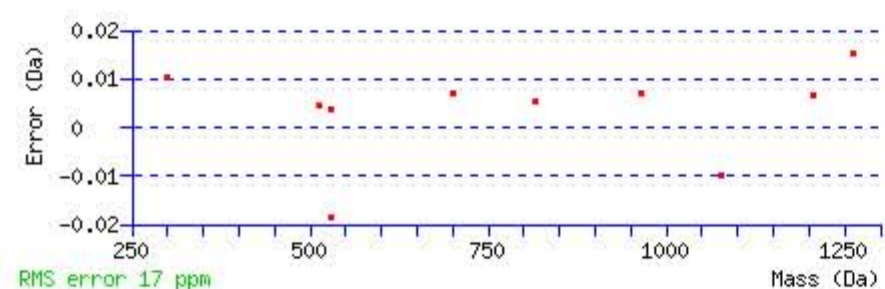
Variable modifications:

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 39 Expect: 0.00024

Matches : 10/138 fragment ions using 13 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							14
2	243.133933	122.070605			225.123368	113.065322	L	1774.915632	887.961454	1757.889083	879.448180	1756.905067	878.956172	13
3	330.165961	165.586618			312.155396	156.581336	S	1661.831568	831.419422	1644.805019	822.906148	1643.821003	822.414140	12
4	459.208554	230.107915			441.197989	221.102633	E	1574.799540	787.903408	1557.772991	779.390134	1556.788975	778.898126	11
5	<b>530.245668</b>	265.626472			<b>512.235103</b>	256.621190	A	1445.756947	723.382112	1428.730398	714.868837	1427.746382	714.376829	10
6	643.329732	322.168504			625.319167	313.163222	L	1374.719833	687.863555	1357.693284	679.350280	1356.709268	678.858272	9
7	700.351196	350.679236			682.340631	341.673954	G	<b>1261.635769</b>	631.321523	1244.609220	622.808248	1243.625204	622.316240	8
8	828.409774	414.708525	811.383225	406.195251	810.399209	405.703243	Q	<b>1204.614305</b>	602.810791	1187.587756	594.297516	1186.603740	593.805508	7
9	941.493838	471.250557	924.467289	462.737283	923.483273	462.245275	I	<b>1076.555727</b>	538.781502	1059.529178	<b>530.268227</b>	1058.545162	529.776219	6
10	1088.562252	544.784764	1071.535703	536.271490	1070.551687	535.779482	F	<b>963.471663</b>	482.239470	946.445114	473.726195	945.461098	473.234187	5
11	1203.589195	602.298236	1186.562646	593.784961	1185.578630	593.292953	D	<b>816.403249</b>	408.705263	799.376700	400.191988	798.392684	399.699980	4
12	1290.621223	645.814250	1273.594674	637.300975	1272.610658	636.808967	S	<b>701.376306</b>	351.191791	684.349757	342.678517	683.365741	342.186509	3
13	1729.846549	865.426913	1712.820000	856.913638	1711.835984	856.421630	Q	614.344278	307.675777	597.317729	<b>299.162503</b>			2
14							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **ELSEALGQIFDSQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
38.8	1902.950928	0.004944	<a href="#">ELSEALGQIFDSQR</a>
0.3	1902.947739	0.008133	<a href="#">MKEQLREMNLR</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **YSSDYFQAPSDYR**

Found in **LG3BP\_HUMAN**, Galectin-3-binding protein OS=Homo sapiens GN=LGALS3BP PE=1 SV=1

Match to Query 37575: 1908.840388 from(955.427470,2+) rtinseconds(2111) index(46665)

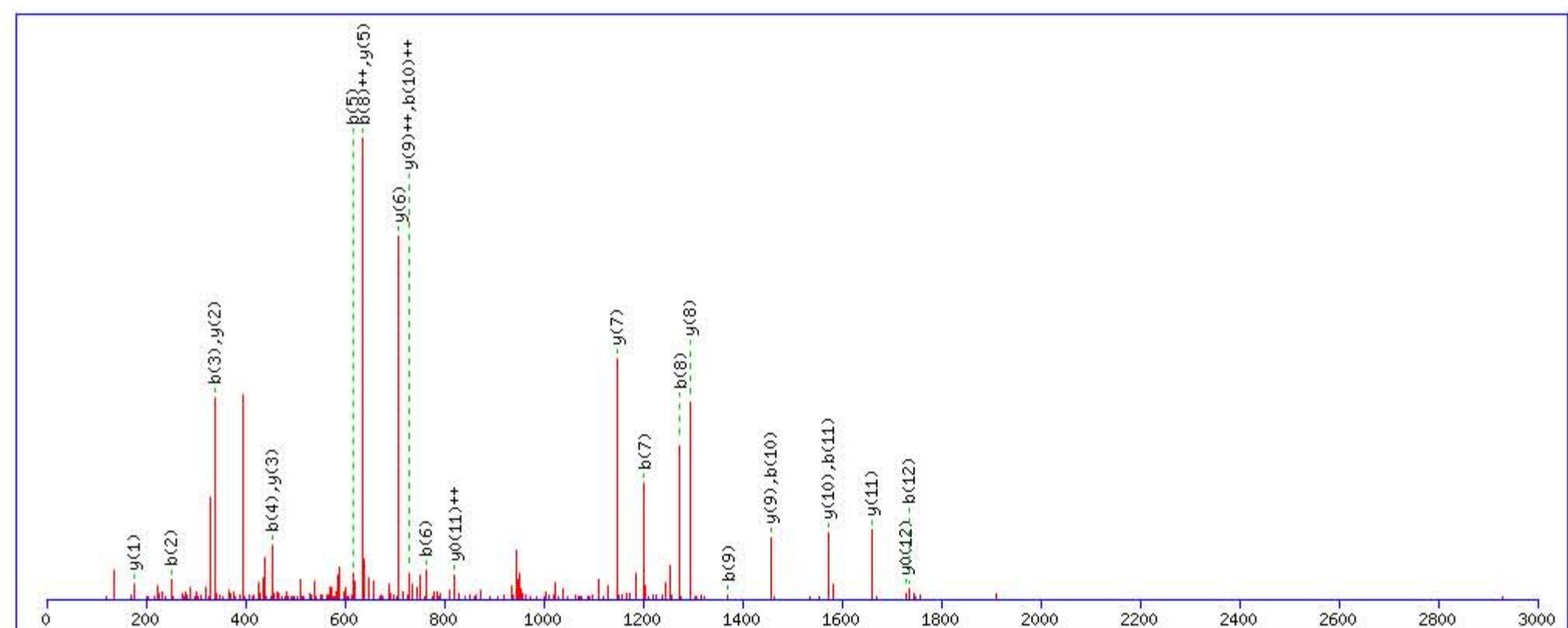
Title: Locus:1.1.1.3447.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1908.835236

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

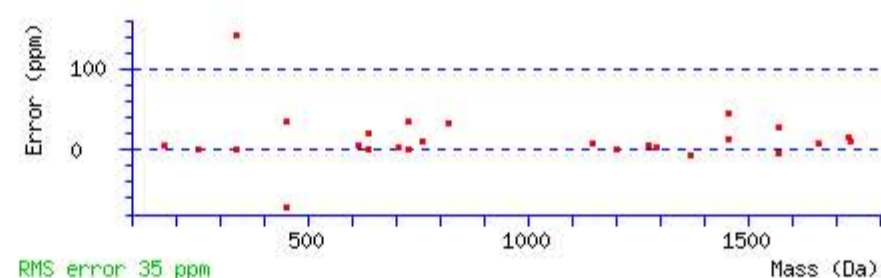
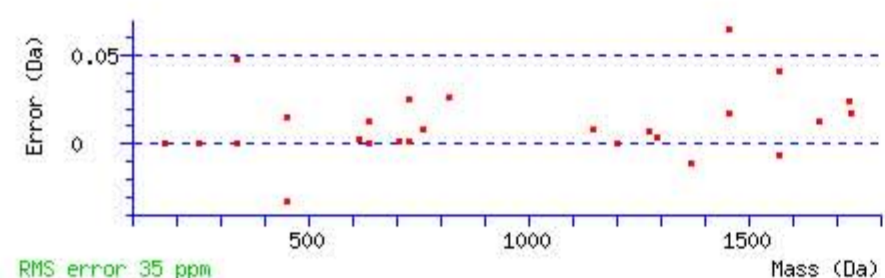
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 77 Expect: 1.1e-007

Matches : 26/126 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							13
2	<b>251.102633</b>	126.054954			233.092068	117.049672	S	1746.779198	873.893237	1729.752649	865.379963	<b>1728.768633</b>	864.887955	12
3	<b>338.134661</b>	169.570968			320.124096	160.565686	S	<b>1659.747170</b>	830.377223	1642.720621	821.863949	1641.736605	<b>821.371941</b>	11
4	<b>453.161604</b>	227.084440			435.151039	218.079158	D	<b>1572.715142</b>	786.861209	1555.688593	778.347935	1554.704577	777.855927	10
5	<b>616.224933</b>	308.616105			598.214368	299.610822	Y	<b>1457.688199</b>	<b>729.347738</b>	1440.661650	720.834463	1439.677634	720.342455	9
6	<b>763.293347</b>	382.150312			745.282782	373.145029	F	<b>1294.624870</b>	647.816073	1277.598321	639.302799	1276.614305	638.810791	8
7	<b>1202.518673</b>	601.762975	1185.492124	593.249700	1184.508108	592.757692	Q	<b>1147.556456</b>	574.281866	1130.529907	565.768592	1129.545891	565.276584	7
8	<b>1273.555787</b>	<b>637.281532</b>	1256.529238	628.768257	1255.545222	628.276249	A	<b>708.331130</b>	354.669203	691.304581	346.155929	690.320565	345.663921	6
9	<b>1370.608551</b>	685.807914	1353.582002	677.294639	1352.597986	676.802631	P	<b>637.294016</b>	319.150646	620.267467	310.637372	619.283451	310.145364	5
10	<b>1457.640579</b>	<b>729.323928</b>	1440.614030	720.810653	1439.630014	720.318645	S	540.241252	270.624264	523.214703	262.110990	522.230687	261.618982	4
11	<b>1572.667522</b>	786.837399	1555.640973	778.324125	1554.656957	777.832117	D	<b>453.209224</b>	227.108250	436.182675	218.594976	435.198659	218.102968	3
12	<b>1735.730851</b>	868.369064	1718.704302	859.855789	1717.720286	859.363781	Y	<b>338.182281</b>	169.594778	321.155732	161.081504			2
13							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **YSSDYFQAPSDYR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
77.4	1908.835236	0.005152	<b>YSSDYFQAPSDYR</b>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **TGAQELLR**

Found in **GELS\_HUMAN**, Gelsolin OS=Homo sapiens GN=GSN PE=1 SV=1

Match to Query 17703: 1197.659108 from(599.836830,2+) rtinseconds(1960) index(4539)

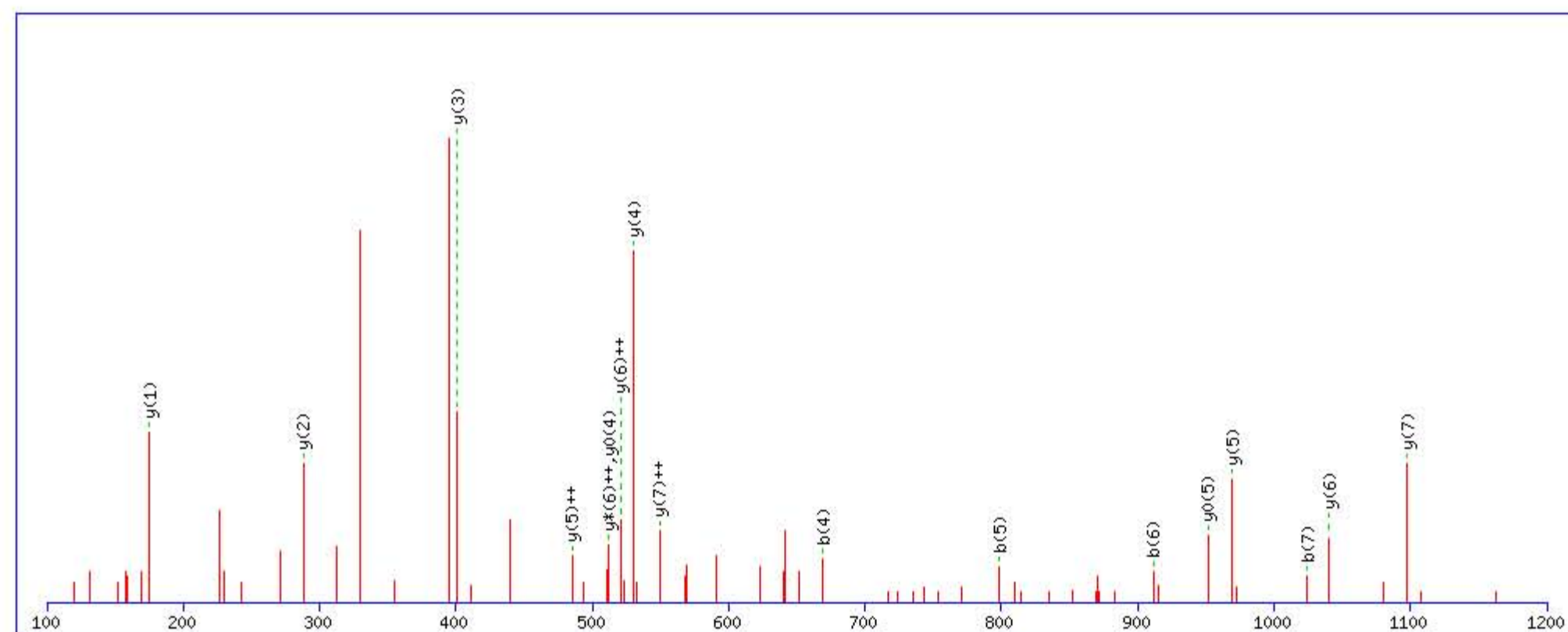
Title: Locus:1.1.1.3202.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1197.653961

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

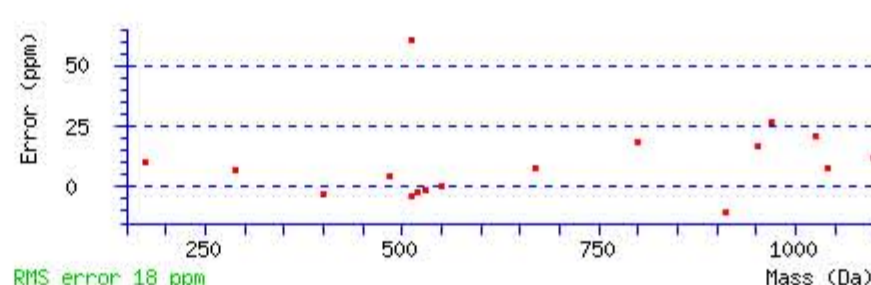
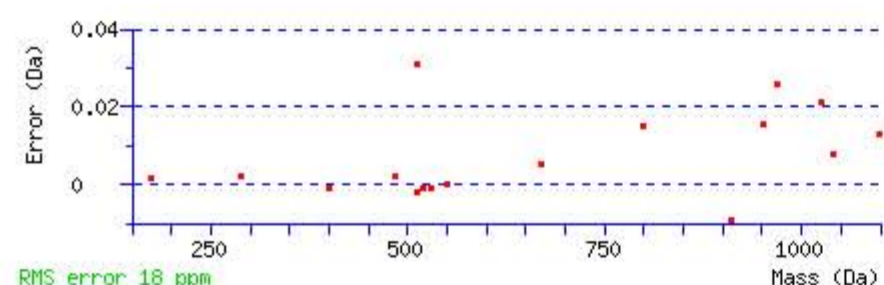
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 43 Expect: 0.0013

Matches : 17/72 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							8
2	159.076419	80.041847			141.065854	71.036565	G	1097.613577	549.310427	1080.587028	540.797152	1079.603012	540.305144	7
3	230.113533	115.560404			212.102968	106.555122	A	1040.592113	520.799695	1023.565564	512.286420	1022.581548	511.794412	6
4	669.338859	335.173068	652.312310	326.659793	651.328294	326.167785	Q	969.554999	485.281138	952.528450	476.767863	951.544434	476.275855	5
5	798.381452	399.694364	781.354903	391.181090	780.370887	390.689082	E	530.329673	265.668475	513.303124	257.155200	512.319108	256.663192	4
6	911.465516	456.236396	894.438967	447.723122	893.454951	447.231114	L	401.287080	201.147178	384.260531	192.633903			3
7	1024.549580	512.778428	1007.523031	504.265153	1006.539015	503.773145	L	288.203016	144.605146	271.176467	136.091871			2
8							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **TGAQELLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
42.8	1197.653961	0.005147	<a href="#">TGAQELLR</a>
22.7	1197.653961	0.005147	<a href="#">QTQEILR</a>
21.6	1197.653961	0.005147	<a href="#">QTQEILR</a>
17.2	1197.669220	-0.010112	<a href="#">TLWAQLR</a>
14.4	1197.653961	0.005147	<a href="#">TQQLLR</a>
13.6	1197.669220	-0.010112	<a href="#">WTLQAIR</a>
12.0	1197.653961	0.005147	<a href="#">QTEQLLR</a>
11.6	1197.646545	0.012563	<a href="#">RSPQAEILR</a>
10.0	1197.653961	0.005147	<a href="#">QTEQLLR</a>
9.6	1197.669220	-0.010112	<a href="#">QWTALIR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GASQAGAPQGR**

Found in **GELS\_HUMAN**, Gelsolin OS=Homo sapiens GN=GSN PE=1 SV=1

Match to Query 20511: 1309.657408 from(655.835980,2+) rtinseconds(1304) index(855)

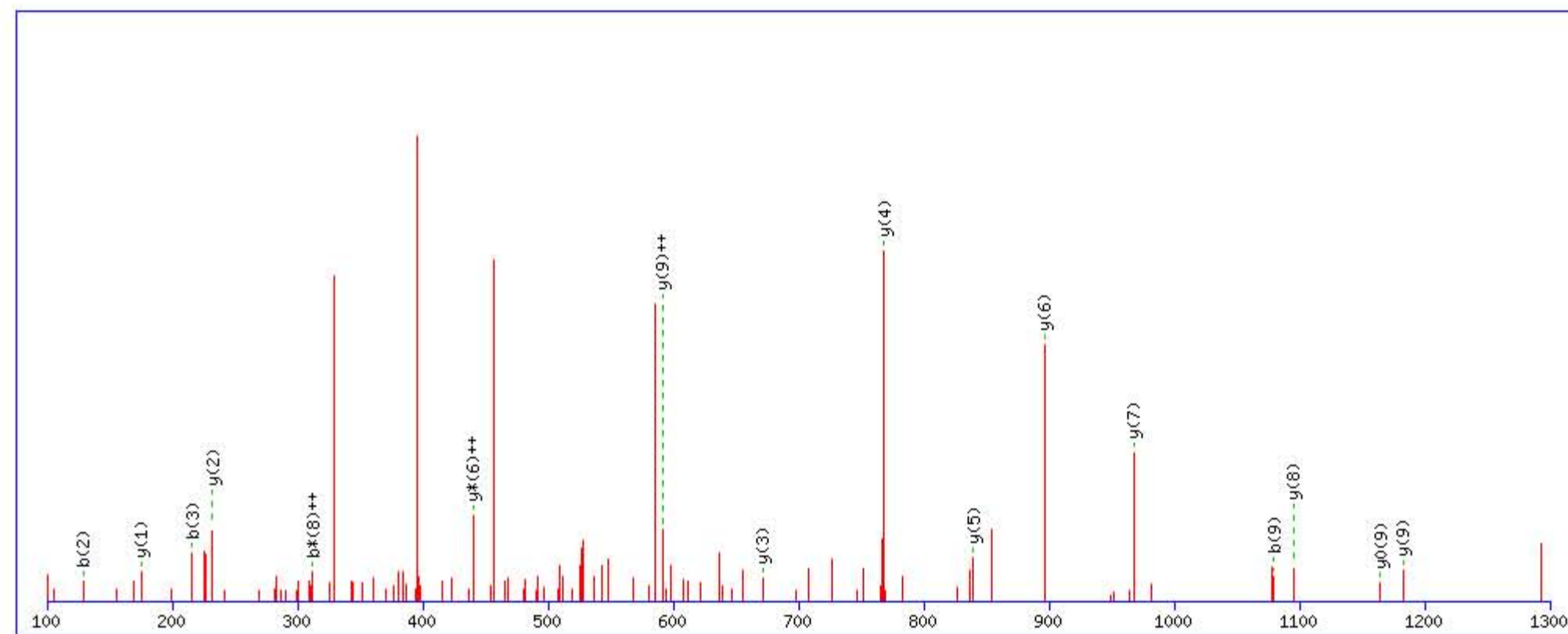
Title: Locus:1.1.1.2973.19 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1309.656097

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

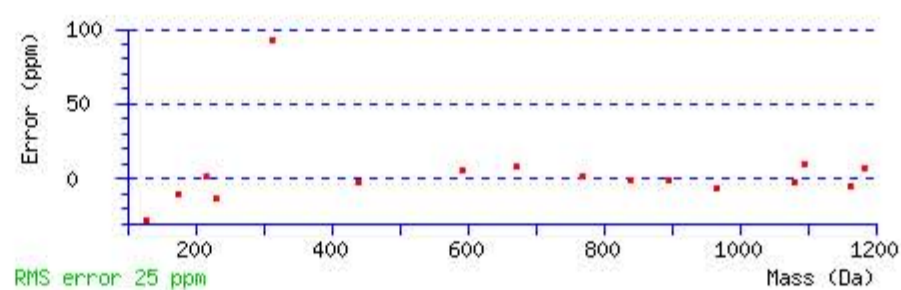
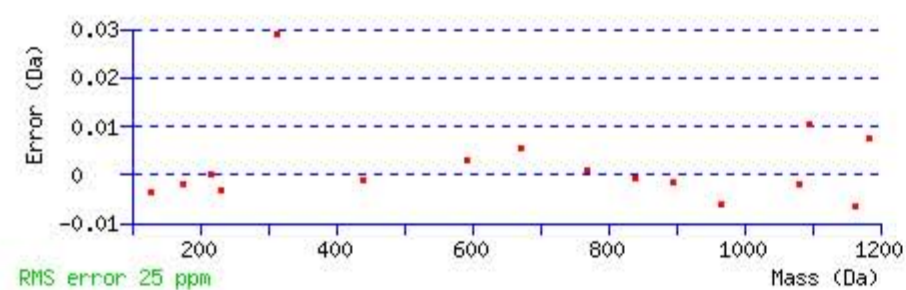
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 56 Expect: 1.4e-005

Matches : 16/94 fragment ions using 33 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							11
2	<b>129.065854</b>	65.036565					A	1253.641918	627.324597	1236.615369	618.811323	1235.631353	618.319315	10
3	<b>216.097882</b>	108.552579			198.087317	99.547296	S	<b>1182.604804</b>	<b>591.806040</b>	1165.578255	583.292765	<b>1164.594239</b>	582.800757	9
4	344.156460	172.581868	327.129911	164.068593	326.145895	163.576585	Q	<b>1095.572776</b>	548.290026	1078.546227	539.776752			8
5	415.193574	208.100425	398.167025	199.587150	397.183009	199.095142	A	<b>967.514198</b>	484.260737	950.487649	475.747462			7
6	472.215038	236.611157	455.188489	228.097882	454.204473	227.605874	G	<b>896.477084</b>	448.742180	879.450535	<b>440.228906</b>			6
7	543.252152	272.129714	526.225603	263.616440	525.241587	263.124432	A	<b>839.455620</b>	420.231448	822.429071	411.718173			5
8	640.304916	320.656096	623.278367	<b>312.142822</b>	622.294351	311.650814	P	<b>768.418506</b>	384.712891	751.391957	376.199616			4
9	<b>1079.530242</b>	540.268759	1062.503693	531.755485	1061.519677	531.263477	Q	<b>671.365742</b>	336.186509	654.339193	327.673234			3
10	1136.551706	568.779491	1119.525157	560.266217	1118.541141	559.774208	G	<b>232.140416</b>	116.573846	215.113867	108.060571			2
11							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GASQAGAPQGR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
56.2	1309.656097	0.001311	<a href="#">GASQAGAPQGR</a>
39.9	1309.656097	0.001311	<a href="#">GASQAGAPQGR</a>
4.1	1309.648682	0.008726	<a href="#">SLQAQEDARHR</a>
3.5	1309.660110	-0.002702	<a href="#">TVQQRYWAMK</a>
2.7	1309.669998	-0.012590	<a href="#">LIETQMERFK</a>
0.3	1309.647354	0.010054	<a href="#">KSESSNTTSLTR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GASQAGAPQGR**

Found in **GELS\_HUMAN**, Gelsolin OS=Homo sapiens GN=GSN PE=1 SV=1

Match to Query 31395: 1620.833288 from(811.423920,2+) rtinseconds(1742) index(3412)

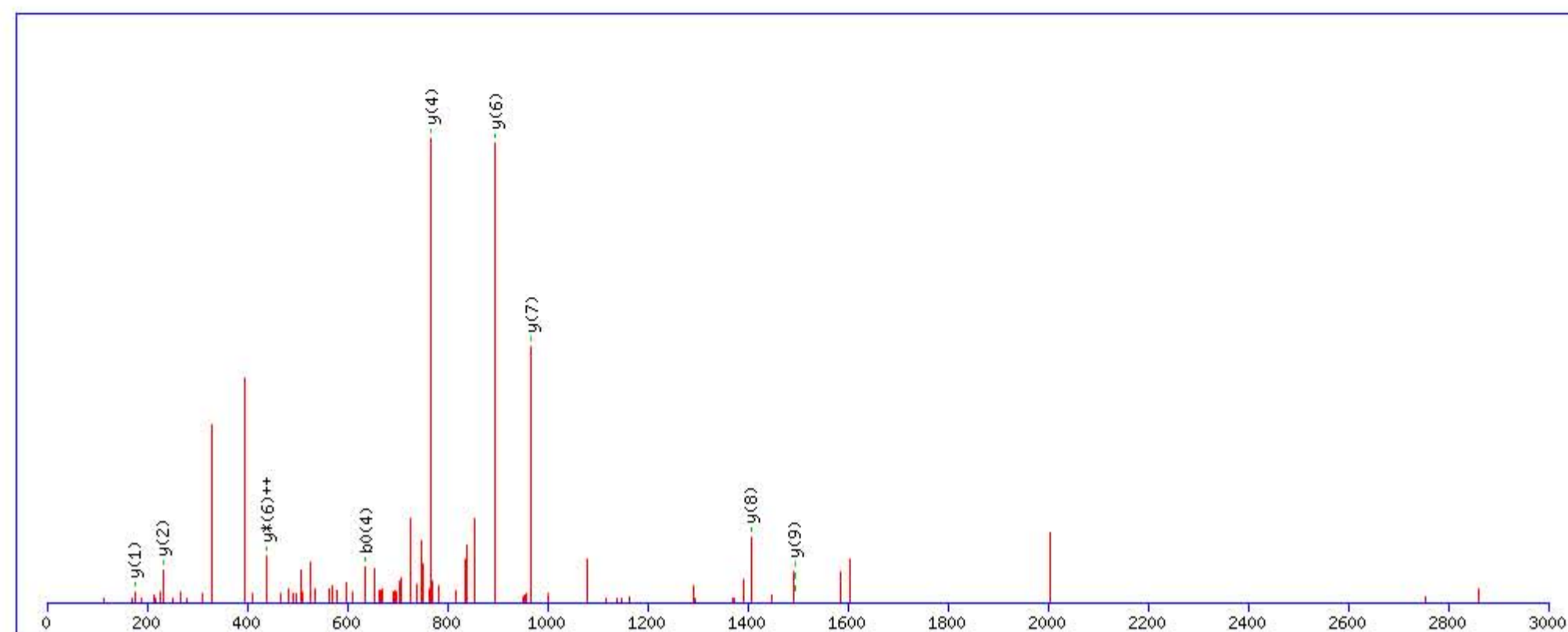
Title: Locus:1.1.1.3126.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 0 to 3000 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1620.822845

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

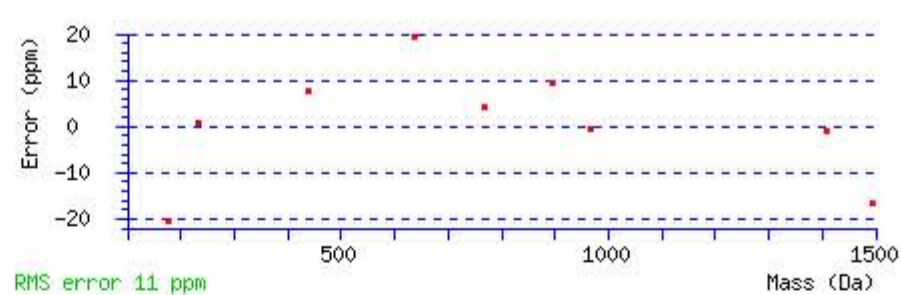
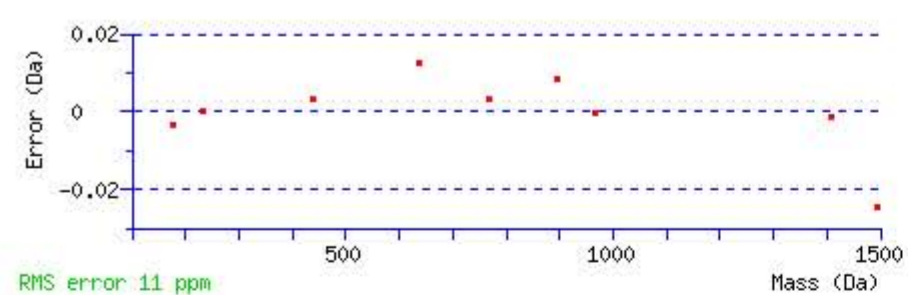
Q4 : Biotin:Thermo-21345 (Q)

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 47 Expect: 0.0002

Matches : 9/94 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							11
2	129.065854	65.036565					A	1564.808666	782.907971	1547.782117	774.394697	1546.798101	773.902689	10
3	216.097882	108.552579			198.087317	99.547296	S	<b>1493.771552</b>	747.389414	1476.745003	738.876140	1475.760987	738.384131	9
4	655.323208	328.165242	638.296659	319.651968	<b>637.312643</b>	319.159960	Q	<b>1406.739524</b>	703.873400	1389.712975	695.360126			8
5	726.360322	363.683799	709.333773	355.170525	708.349757	354.678517	A	<b>967.514198</b>	484.260737	950.487649	475.747463			7
6	783.381786	392.194531	766.355237	383.681257	765.371221	383.189249	G	<b>896.477084</b>	448.742180	879.450535	<b>440.228906</b>			6
7	854.418900	427.713088	837.392351	419.199814	836.408335	418.707806	A	839.455620	420.231448	822.429071	411.718174			5
8	951.471664	476.239470	934.445115	467.726196	933.461099	467.234188	P	<b>768.418506</b>	384.712891	751.391957	376.199617			4
9	1390.696990	695.852133	1373.670441	687.338859	1372.686425	686.846851	Q	671.365742	336.186509	654.339193	327.673235			3
10	1447.718454	724.362865	1430.691905	715.849591	1429.707889	715.357583	G	<b>232.140416</b>	116.573846	215.113867	108.060571			2
11							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GASQAGAPQGR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
47.1	1620.822845	0.010443	<a href="#">GASQAGAPQGR</a>
7.4	1620.815430	0.017858	<a href="#">AGSLASVERYCPRR</a>
4.8	1620.841248	-0.007960	<a href="#">SRVTNPINPWYFK</a>
3.6	1620.838562	-0.005274	<a href="#">FHFIRHEKNHTR</a>

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

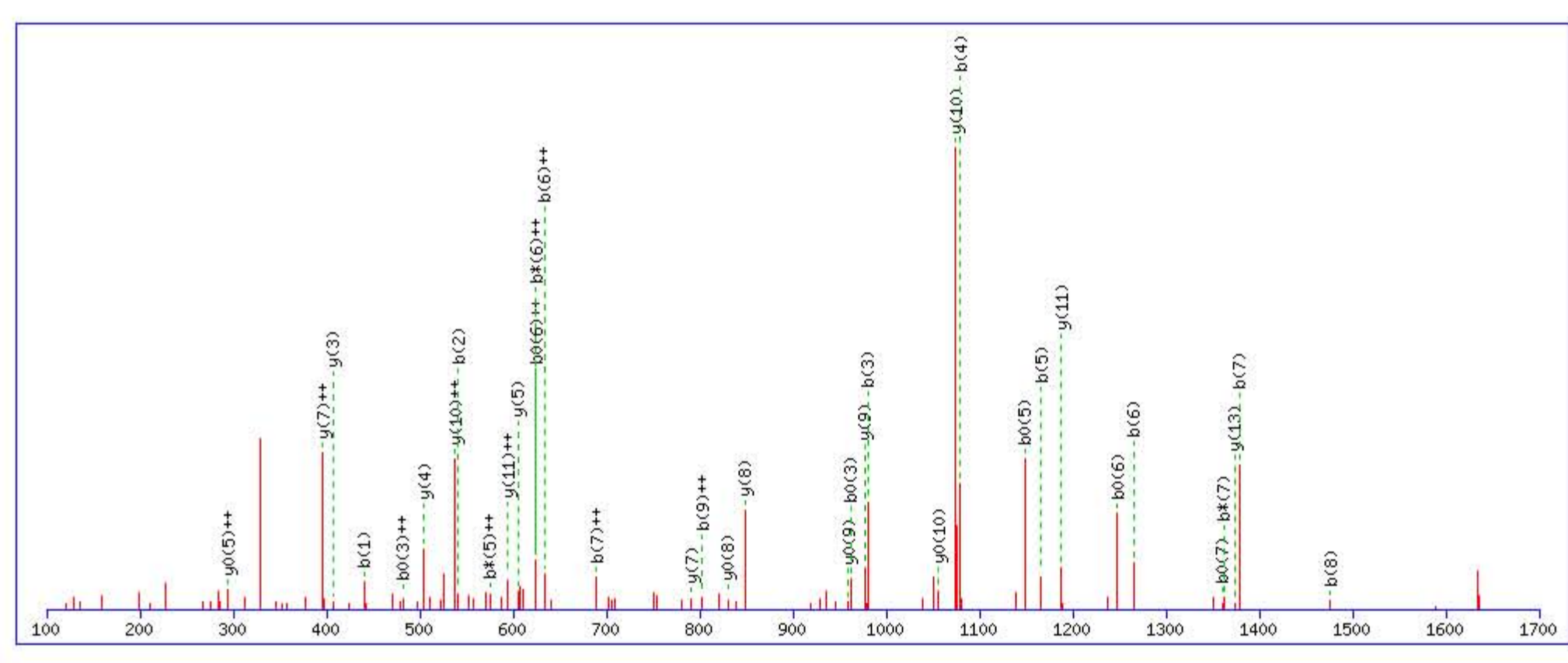
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QTQVSVLPEGGETPLFK**  
 Found in **GELS\_HUMAN**, Gelsolin OS=Homo sapiens GN=GSN PE=1 SV=1

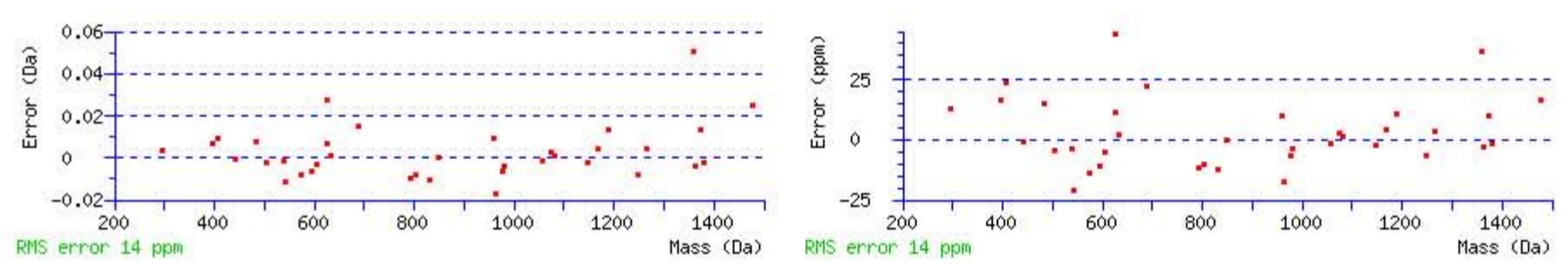
Match to Query 47285: 2451.287712 from(818.103180,3+) rtinseconds(2619) index(35355)  
 Title: Locus:1.1.1.3575.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2451.290588  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q1 : Biotin:Thermo-21345 (Q)  
 Q3 : Biotin:Thermo-21345 (Q)  
 Ions Score: 36 Expect: 0.00064  
 Matches : 37/182 fragment ions using 97 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							17
2	541.280281	271.143779	524.253732	262.630504	523.269716	262.138496	T	2013.072528	1007.039902	1996.045979	998.526628	1995.061963	998.034620	16
3	980.505607	490.756442	963.479058	482.243167	962.495042	481.751159	Q	1912.024849	956.516063	1894.998300	948.002788	1894.014284	947.510780	15
4	1079.574021	540.290649	1062.547472	531.777374	1061.563456	531.285366	V	1472.799523	736.903400	1455.772974	728.390125	1454.788958	727.898117	14
5	1166.606049	583.806663	1149.579500	575.293388	1148.595484	574.801380	S	1373.731109	687.369193	1356.704560	678.855918	1355.720544	678.363910	13
6	1265.674463	633.340870	1248.647914	624.827595	1247.663898	624.335587	V	1286.699081	643.853179	1269.672532	635.339904	1268.688516	634.847896	12
7	1378.758527	689.882902	1361.731978	681.369627	1360.747962	680.877619	L	1187.630667	594.318971	1170.604118	585.805697	1169.620102	585.313689	11
8	1475.811291	738.409284	1458.784742	729.896009	1457.800726	729.404001	P	1074.546603	537.776940	1057.520054	529.263665	1056.536038	528.771657	10
9	1604.853884	802.930580	1587.827335	794.417306	1586.843319	793.925298	E	977.493839	489.250558	960.467290	480.737283	959.483274	480.245275	9
10	1661.875348	831.441312	1644.848799	822.928038	1643.864783	822.436030	G	848.451246	424.729261	831.424697	416.215986	830.440681	415.723978	8
11	1718.896812	859.952044	1701.870263	851.438770	1700.886247	850.946762	G	791.429782	396.218529	774.403233	387.705254	773.419217	387.213246	7
12	1847.939405	924.473341	1830.912856	915.960066	1829.928840	915.468058	E	734.408318	367.707797	717.381769	359.194523	716.397753	358.702515	6
13	1948.987084	974.997180	1931.960535	966.483906	1930.976519	965.991898	T	605.365725	303.186500	588.339176	294.673226	587.355160	294.181218	5
14	2046.039848	1023.523562	2029.013299	1015.010288	2028.029283	1014.518280	P	504.318046	252.662661	487.291497	244.149386			4
15	2159.123912	1080.065594	2142.097363	1071.552319	2141.113347	1071.060311	L	407.265282	204.136279	390.238733	195.623004			3
16	2306.192326	1153.599801	2289.165777	1145.086526	2288.181761	1144.594518	F	294.181218	147.594247	277.154669	139.080972			2
17							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **QTQVSVLPEGGETPLFK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
35.8	2451.290588	-0.002876	<a href="#">QTQVSVLPEGGETPLFK</a>
1.8	2451.277130	0.010582	<a href="#">GFPSDTQLLDLRRNHFPSVPR</a>



**Peptide View**

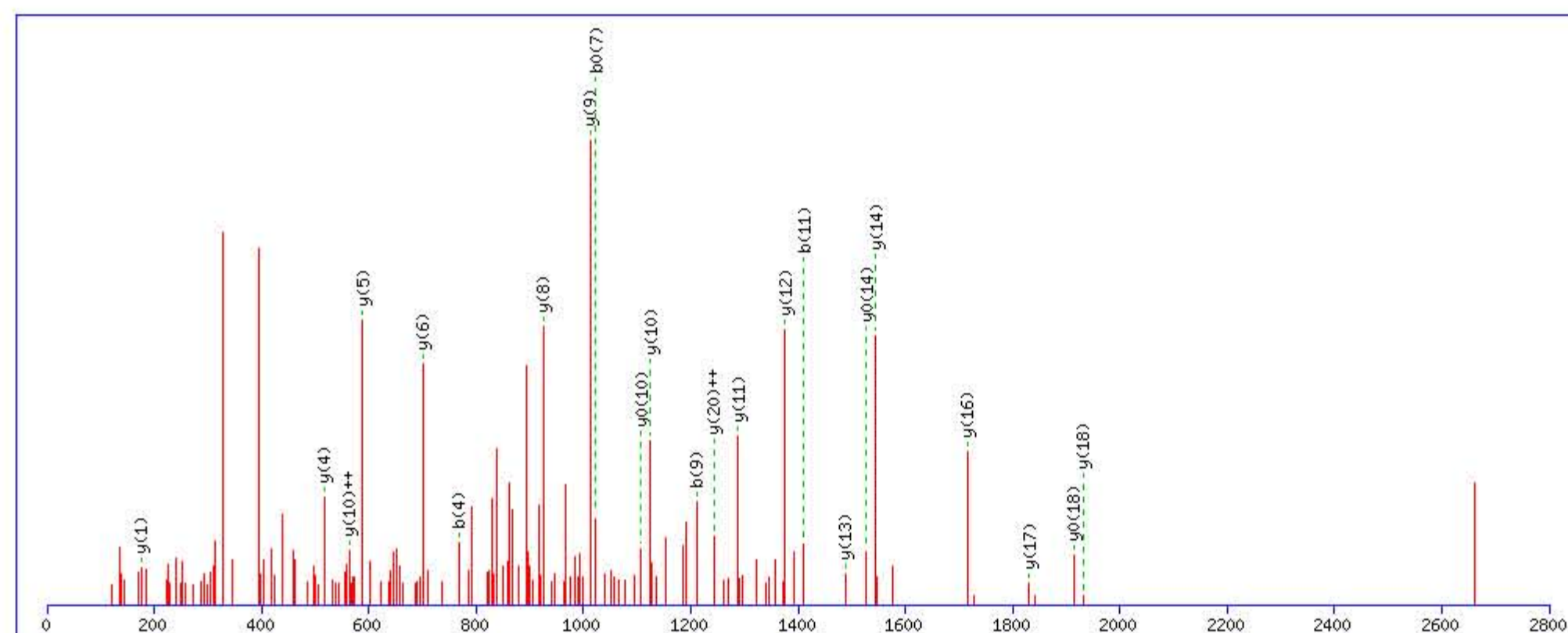
MS/MS Fragmentation of **DPDQTDGLGLSYLSSHIANVER**  
 Found in **GELS\_HUMAN**, Gelsolin OS=Homo sapiens GN=GSN PE=1 SV=1

Match to Query 50349: 2697.338442 from(900.120090,3+) rtinseconds(2604) index(8137)  
 Title: Locus:1.1.1.3426.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

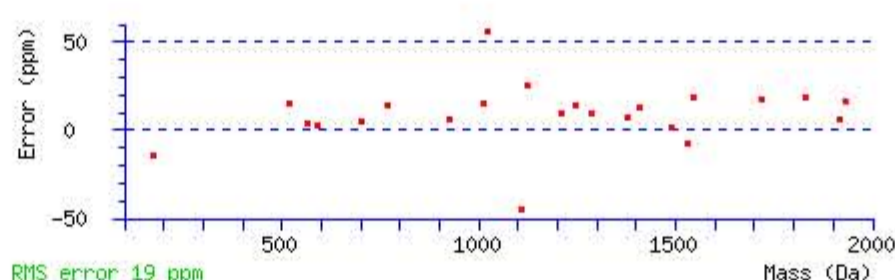
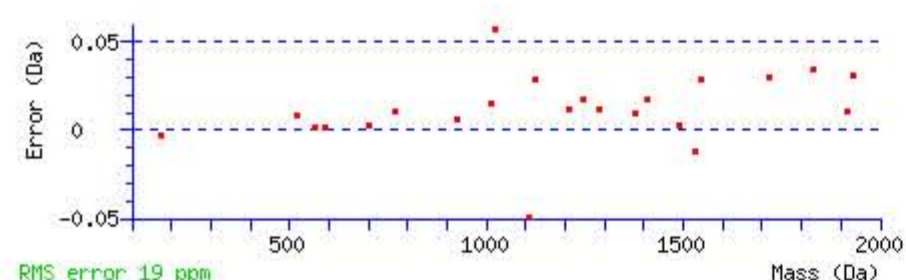
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2697.306824  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q4 : Biotin:Thermo-21345 (Q)  
 Ions Score: 103 Expect: 1.5e-009  
 Matches : 23/244 fragment ions using 35 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							22
2	213.086983	107.047129			195.076418	98.041847	P	2583.287164	1292.147220	2566.260615	1283.633945	2565.276599	1283.141937	21
3	328.113926	164.560601			310.103361	155.555319	D	2486.234400	<b>1243.620838</b>	2469.207851	1235.107563	2468.223835	1234.615555	20
4	<b>767.339252</b>	384.173264	750.312703	375.659989	749.328687	375.167982	Q	2371.207457	1186.107366	2354.180908	1177.594092	2353.196892	1177.102084	19
5	868.386931	434.697104	851.360382	426.183829	850.376366	425.691821	T	<b>1931.982131</b>	966.494704	1914.955582	957.981429	<b>1913.971566</b>	957.489421	18
6	983.413874	492.210575	966.387325	483.697300	965.403309	483.205292	D	<b>1830.934452</b>	915.970864	1813.907903	907.457590	1812.923887	906.965581	17
7	1040.435338	520.721307	1023.408789	512.208032	<b>1022.424773</b>	511.716025	G	<b>1715.907509</b>	858.457392	1698.880960	849.944118	1697.896944	849.452110	16
8	1153.519402	577.263339	1136.492853	568.750065	1135.508837	568.258056	L	1658.886045	829.946661	1641.859496	821.433386	1640.875480	820.941378	15
9	<b>1210.540866</b>	605.774071	1193.514317	597.260796	1192.530301	596.768788	G	<b>1545.801981</b>	773.404629	1528.775432	764.891354	<b>1527.791416</b>	764.399346	14
10	1323.624930	662.316103	1306.598381	653.802828	1305.614365	653.310820	L	<b>1488.780517</b>	744.893897	1471.753968	736.380622	1470.769952	735.888614	13
11	<b>1410.656958</b>	705.832117	1393.630409	697.318842	1392.646393	696.826834	S	<b>1375.696453</b>	688.351865	1358.669904	679.838590	1357.685888	679.346582	12
12	1573.720287	787.363781	1556.693738	778.850507	1555.709722	778.358499	Y	<b>1288.664425</b>	644.835851	1271.637876	636.322576	1270.653860	635.830568	11
13	1686.804351	843.905813	1669.777802	835.392539	1668.793786	834.900531	L	<b>1125.601096</b>	<b>563.304186</b>	1108.574547	554.790912	<b>1107.590531</b>	554.298904	10
14	1773.836379	887.421827	1756.809830	878.908553	1755.825814	878.416545	S	<b>1012.517032</b>	506.762154	995.490483	498.248880	994.506467	497.756872	9
15	1860.868407	930.937841	1843.841858	922.424567	1842.857842	921.932559	S	<b>925.485004</b>	463.246140	908.458455	454.732866	907.474439	454.240858	8
16	1997.927319	999.467297	1980.900770	990.954023	1979.916754	990.462015	H	838.452976	419.730126	821.426427	411.216852	820.442411	410.724844	7
17	2111.011383	1056.009329	2093.984834	1047.496055	2093.000818	1047.004047	I	<b>701.394064</b>	351.200670	684.367515	342.687396	683.383499	342.195388	6
18	2182.048497	1091.527886	2165.021948	1083.014612	2164.037932	1082.522604	A	<b>588.310000</b>	294.658638	571.283451	286.145364	570.299435	285.653356	5
19	2296.091424	1148.549350	2279.064875	1140.036075	2278.080859	1139.544067	N	<b>517.272886</b>	259.140081	500.246337	250.626806	499.262321	250.134798	4
20	2395.159838	1198.083557	2378.133289	1189.570282	2377.149273	1189.078274	V	403.229959	202.118617	386.203410	193.605343	385.219394	193.113335	3
21	2524.202431	1262.604853	2507.175882	1254.091579	2506.191866	1253.599571	E	304.161545	152.584411	287.134996	144.071136	286.150980	143.579128	2
22							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **DPDQTDGLGLSYLSSHIANVER**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
102.8	2697.306824	0.031618	<b>DPDQTDGLGLSYLSSHIANVER</b>

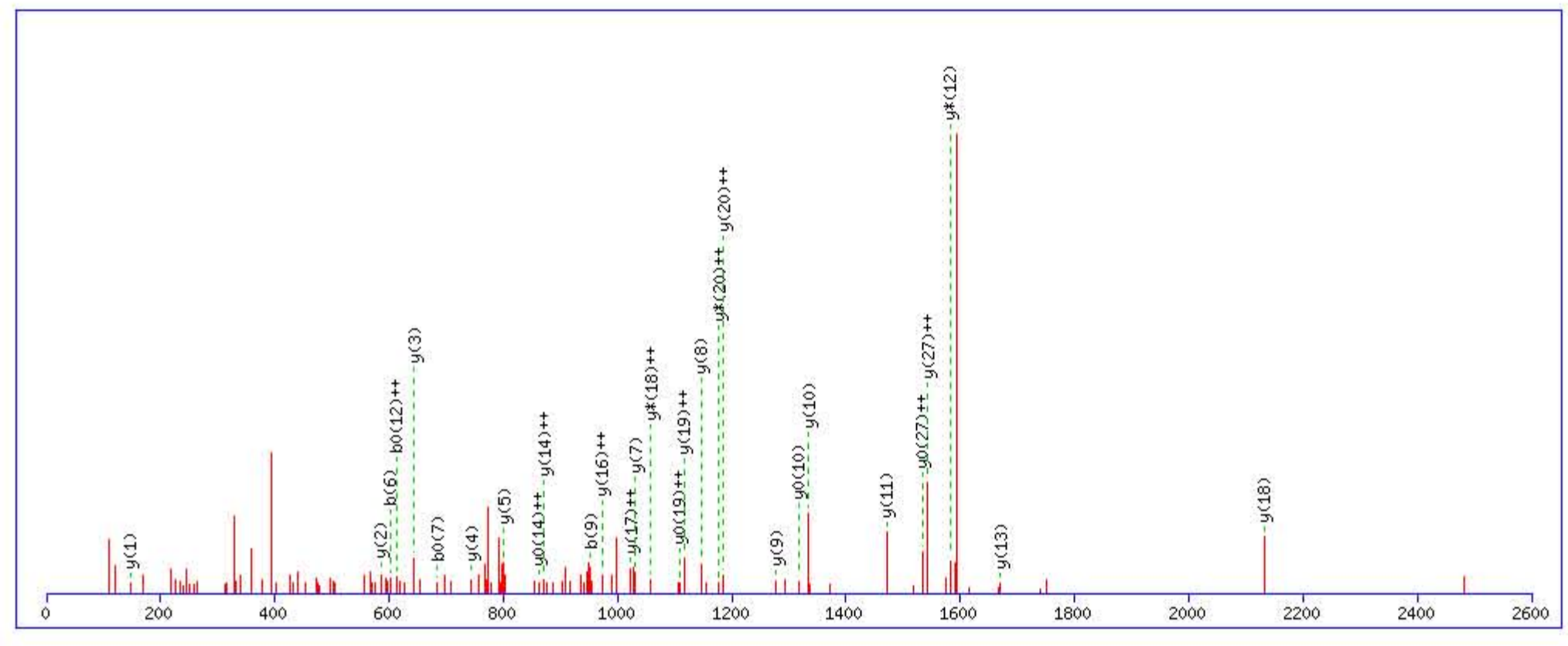
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VPFDAQTLHTSTAMAAQHGMDDDDGTGQK**  
 Found in **GELS\_HUMAN**, Gelsolin OS=Homo sapiens GN=GSN PE=1 SV=1

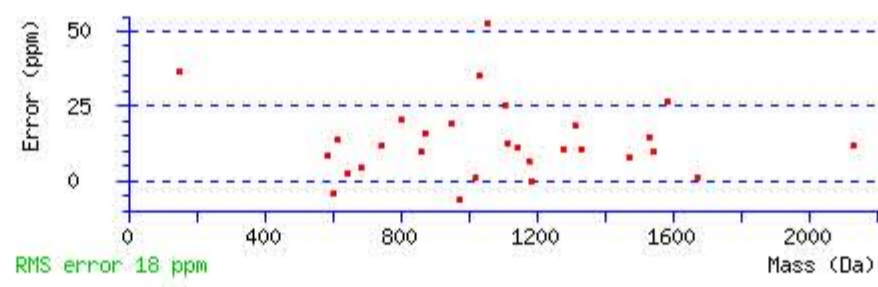
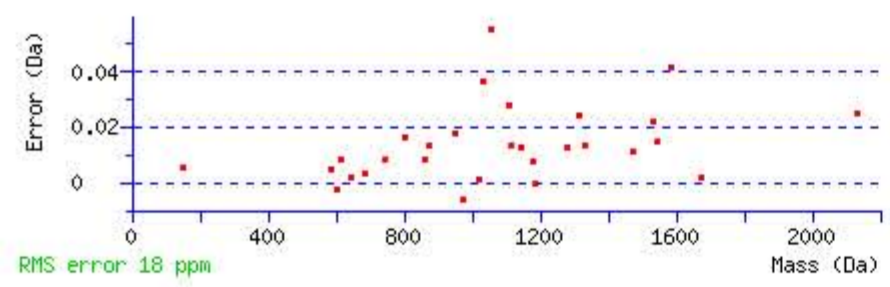
Match to Query 55377: 3183.462856 from(796.872990,4+) rtinseconds(2018) index(5045)  
 Title: Locus:1.1.1.3222.23 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3183.442383  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q27 : Biotin:Thermo-21345 (Q)  
 Ions Score: 35 Expect: 0.0044  
 Matches : 29/280 fragment ions using 105 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							28
2	197.128454	99.067865					P	3085.381222	1543.194249	3068.354673	1534.680974	3067.370657	1534.188966	27
3	344.196868	172.602072					F	2988.328458	1494.667867	2971.301909	1486.154592	2970.317893	1485.662584	26
4	459.223811	230.115543			441.213246	221.110261	D	2841.260044	1421.133660	2824.233495	1412.620385	2823.249479	1412.128377	25
5	530.260925	265.634101			512.250360	256.628818	A	2726.233101	1363.620188	2709.206552	1355.106914	2708.222536	1354.614906	24
6	601.298039	301.152658			583.287474	292.147375	A	2655.195987	1328.101631	2638.169438	1319.588357	2637.185422	1319.096349	23
7	702.345718	351.676497			684.335153	342.671215	T	2584.158873	1292.583074	2567.132324	1284.069800	2566.148308	1283.577792	22
8	815.429782	408.218529			797.419217	399.213247	L	2483.111194	1242.059235	2466.084645	1233.545960	2465.100629	1233.053952	21
9	952.488694	476.747985			934.478129	467.742703	H	2370.027130	1185.517203	2353.000581	1177.003928	2352.016565	1176.511920	20
10	1053.536373	527.271824			1035.525808	518.266542	T	2232.968218	1116.987747	2215.941669	1108.474472	2214.957653	1107.982464	19
11	1140.568401	570.787839			1122.557836	561.782556	S	2131.920539	1066.463907	2114.893990	1057.950633	2113.909974	1057.458625	18
12	1241.616080	621.311678			1223.605515	612.306396	T	2044.888511	1022.947893	2027.861962	1014.434619	2026.877946	1013.942611	17
13	1312.653194	656.830235			1294.642629	647.824952	A	1943.840832	972.424054	1926.814283	963.910779	1925.830267	963.418771	16
14	1443.693679	722.350478			1425.683114	713.345195	M	1872.803718	936.905497	1855.777169	928.392222	1854.793153	927.900214	15
15	1514.730793	757.869035			1496.720228	748.863752	A	1741.763233	871.385254	1724.736684	862.871980	1723.752668	862.379972	14
16	1585.767907	793.387591			1567.757342	784.382309	A	1670.726119	835.866697	1653.699570	827.353423	1652.715554	826.861415	13
17	1713.826485	857.416880	1696.799936	848.903606	1695.815920	848.411598	Q	1599.689005	800.348140	1582.662456	791.834866	1581.678440	791.342858	12
18	1850.885397	925.946336	1833.858848	917.433062	1832.874832	916.941054	H	1471.630427	736.318851	1454.603878	727.805577	1453.619862	727.313569	11
19	1907.906861	954.457068	1890.880312	945.943794	1889.896296	945.451786	G	1334.571515	667.789395	1317.544966	659.276121	1316.560950	658.784113	10
20	2038.947346	1019.977311	2021.920797	1011.464036	2020.936781	1010.972028	M	1277.550051	639.278663	1260.523502	630.765389	1259.539486	630.273381	9
21	2153.974289	1077.490782	2136.947740	1068.977508	2135.963724	1068.485500	D	1146.509566	573.758421	1129.483017	565.245146	1128.499001	564.753138	8
22	2269.001232	1135.004254	2251.974683	1126.490979	2250.990667	1125.998971	D	1031.482623	516.244949	1014.456074	507.731675	1013.472058	507.239667	7
23	2384.028175	1192.517725	2367.001626	1184.004451	2366.017610	1183.512443	D	916.455680	458.731478	899.429131	450.218203	898.445115	449.726195	6
24	2441.049639	1221.028457	2424.023090	1212.515183	2423.039074	1212.023175	G	801.428737	401.218007	784.402188	392.704732	783.418172	392.212724	5
25	2542.097318	1271.552297	2525.070769	1263.039022	2524.086753	1262.547014	T	744.407273	372.707275	727.380724	364.194000	726.396708	363.701992	4
26	2599.118782	1300.063029	2582.092233	1291.549754	2581.108217	1291.057746	G	643.359594	322.183435	626.333045	313.670161			3
27	3038.344108	1519.675692	3021.317559	1511.162417	3020.333543	1510.670409	Q	586.338130	293.672703	569.311581	285.159429			2
28							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VPFDAQTLHTSTAMAAQHGMDDDDGTGQK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
34.7	3183.442383	0.020473	<a href="#">VPFDAQTLHTSTAMAAQHGMDDDDGTGQK</a>
6.8	3183.442383	0.020473	<a href="#">VPFDAQTLHTSTAMAAQHGMDDDDGTGQK</a>

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

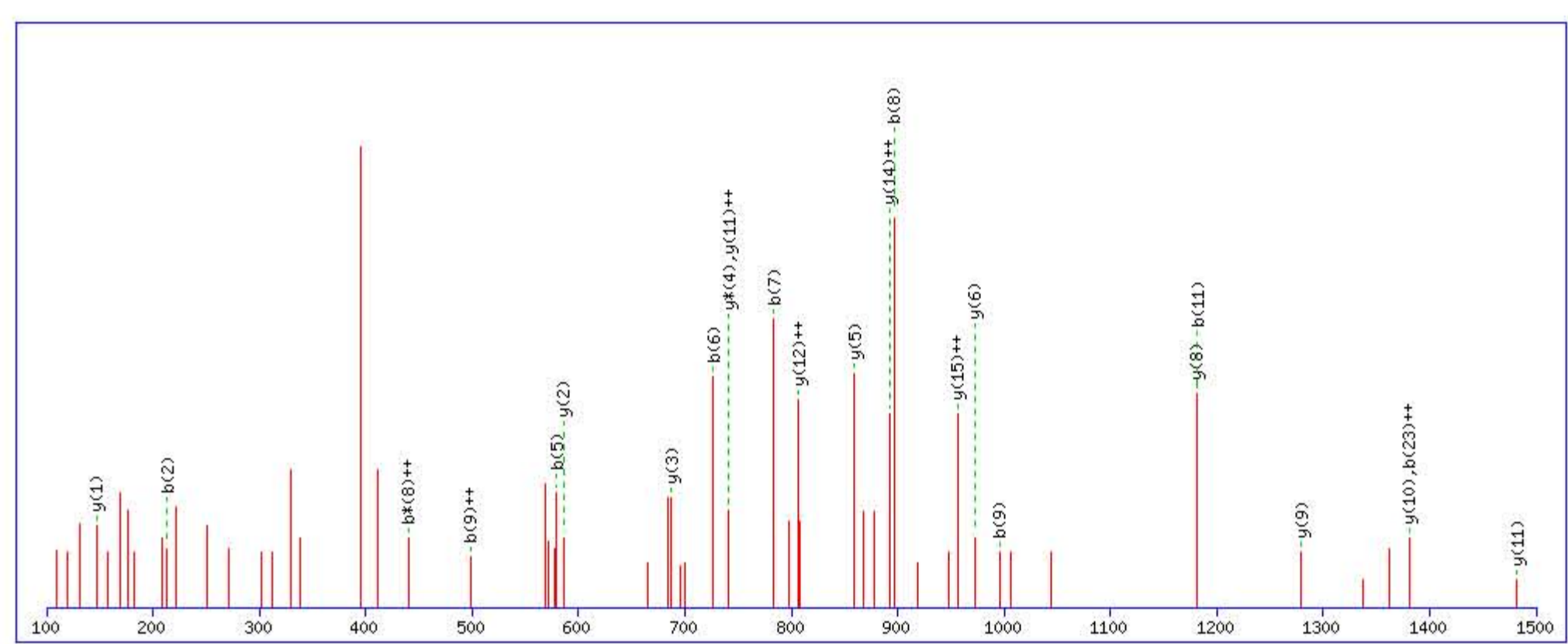
**MATRIX SCIENCE Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **VIHDNFGIVEGLMTTVHAITATQK**  
 Found in **G3P\_HUMAN**, Glyceraldehyde-3-phosphate dehydrogenase OS=Homo sapiens GN=GAPDH PE=1 SV=3

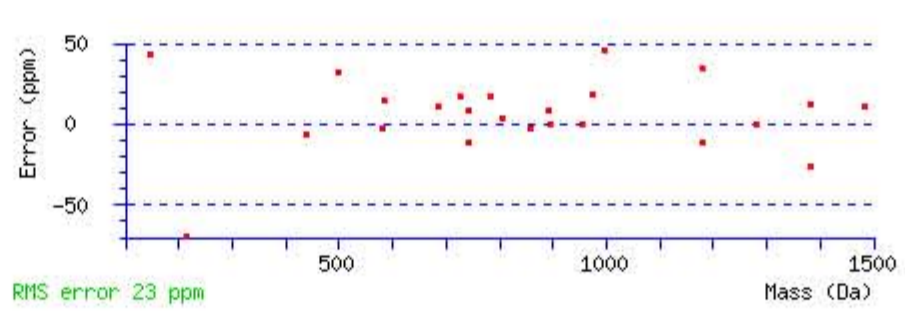
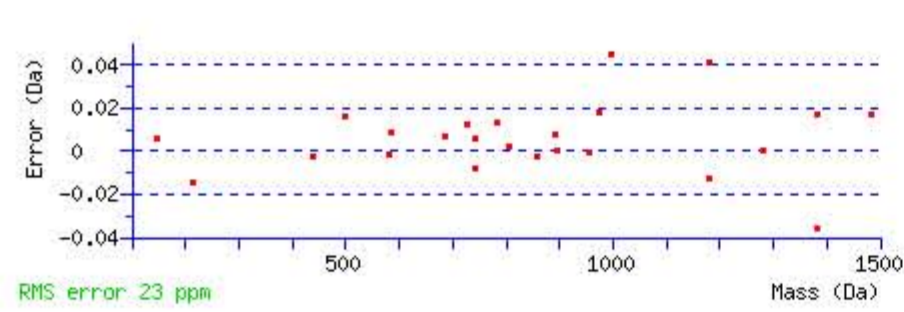
Match to Query 53060: 2905.532696 from(727.390450,4+) rtinseconds(3130) index(53064)  
 Title: Locus:1.1.1.3798.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2905.519424  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q23 : Biotin:Thermo-21345 (Q)  
 Ions Score: 52 Expect: 0.00013  
 Matches : 24/258 fragment ions using 44 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							24
2	<b>213.159754</b>	107.083515					I	2807.458272	1404.232774	2790.431723	1395.719499	2789.447707	1395.227491	23
3	350.218666	175.612971					H	2694.374208	1347.690742	2677.347659	1339.177467	2676.363643	1338.685459	22
4	465.245609	233.126443			447.235044	224.121160	D	2557.315296	1279.161286	2540.288747	1270.648011	2539.304731	1270.156003	21
5	<b>579.288536</b>	290.147906	562.261987	281.634632	561.277971	281.142624	N	2442.288353	1221.647814	2425.261804	1213.134540	2424.277788	1212.642532	20
6	<b>726.356950</b>	363.682113	709.330401	355.168838	708.346385	354.676830	F	2328.245426	1164.626351	2311.218877	1156.113076	2310.234861	1155.621068	19
7	<b>783.378414</b>	392.192845	766.351865	383.679571	765.367849	383.187563	G	2181.177012	1091.092144	2164.150463	1082.578869	2163.166447	1082.086861	18
8	<b>896.462478</b>	448.734877	879.435929	<b>440.221603</b>	878.451913	439.729595	I	2124.155548	1062.581412	2107.128999	1054.068137	2106.144983	1053.576129	17
9	<b>995.530892</b>	<b>498.269084</b>	978.504343	489.755810	977.520327	489.263802	V	2011.071484	1006.039380	1994.044935	997.526105	1993.060919	997.034097	16
10	1124.573485	562.790381	1107.546936	554.277106	1106.562920	553.785098	E	1912.003070	<b>956.505173</b>	1894.976521	947.991899	1893.992505	947.499890	15
11	<b>1181.594949</b>	591.301113	1164.568400	582.787838	1163.584384	582.295830	G	1782.960477	<b>891.983876</b>	1765.933928	883.470602	1764.949912	882.978594	14
12	1294.679013	647.843144	1277.652464	639.329870	1276.668448	638.837862	L	1725.939013	863.473144	1708.912464	854.959870	1707.928448	854.467862	13
13	1425.719498	713.363387	1408.692949	704.850113	1407.708933	704.358104	M	1612.854949	<b>806.931113</b>	1595.828400	798.417838	1594.844384	797.925830	12
14	1526.767177	763.887227	1509.740628	755.373952	1508.756612	754.881944	T	<b>1481.814464</b>	<b>741.410870</b>	1464.787915	732.897596	1463.803899	732.405588	11
15	1627.814856	814.411066	1610.788307	805.897792	1609.804291	805.405783	T	<b>1380.766785</b>	690.887031	1363.740236	682.373756	1362.756220	681.881748	10
16	1726.883270	863.945273	1709.856721	855.431999	1708.872705	854.939991	V	<b>1279.719106</b>	640.363191	1262.692557	631.849917	1261.708541	631.357909	9
17	1863.942182	932.474729	1846.915633	923.961455	1845.931617	923.469447	H	<b>1180.650692</b>	590.828984	1163.624143	582.315710	1162.640127	581.823701	8
18	1934.979296	967.993286	1917.952747	959.480012	1916.968731	958.988003	A	1043.591780	522.299528	1026.565231	513.786254	1025.581215	513.294245	7
19	2048.063360	1024.535318	2031.036811	1016.022044	2030.052795	1015.530036	I	<b>972.554666</b>	486.780971	955.528117	478.267697	954.544101	477.775689	6
20	2149.111039	1075.059157	2132.084490	1066.545883	2131.100474	1066.053875	T	<b>859.470602</b>	430.238939	842.444053	421.725665	841.460037	421.233657	5
21	2220.148153	1110.577714	2203.121604	1102.064440	2202.137588	1101.572432	A	758.422923	379.715100	<b>741.396374</b>	371.201825	740.412358	370.709817	4
22	2321.195832	1161.101554	2304.169283	1152.588279	2303.185267	1152.096271	T	<b>687.385809</b>	344.196543	670.359260	335.683268	669.375244	335.191260	3
23	2760.421158	<b>1380.714217</b>	2743.394609	1372.200942	2742.410593	1371.708934	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
24							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VIHDNFGIVEGLMTTVHAITATQK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	$M_r(\text{calc})$ :	Delta	Sequence
52.0	2905.519424	0.013272	<a href="#">VIHDNFGIVEGLMTTVHAITATQK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **YVMLPVADQDQCIR**

Found in **HPT\_HUMAN**, Haptoglobin OS=Homo sapiens GN=HP PE=1 SV=1

Match to Query 40169: 2018.005028 from(1010.009790,2+) rtinseconds(2336) index(6725)

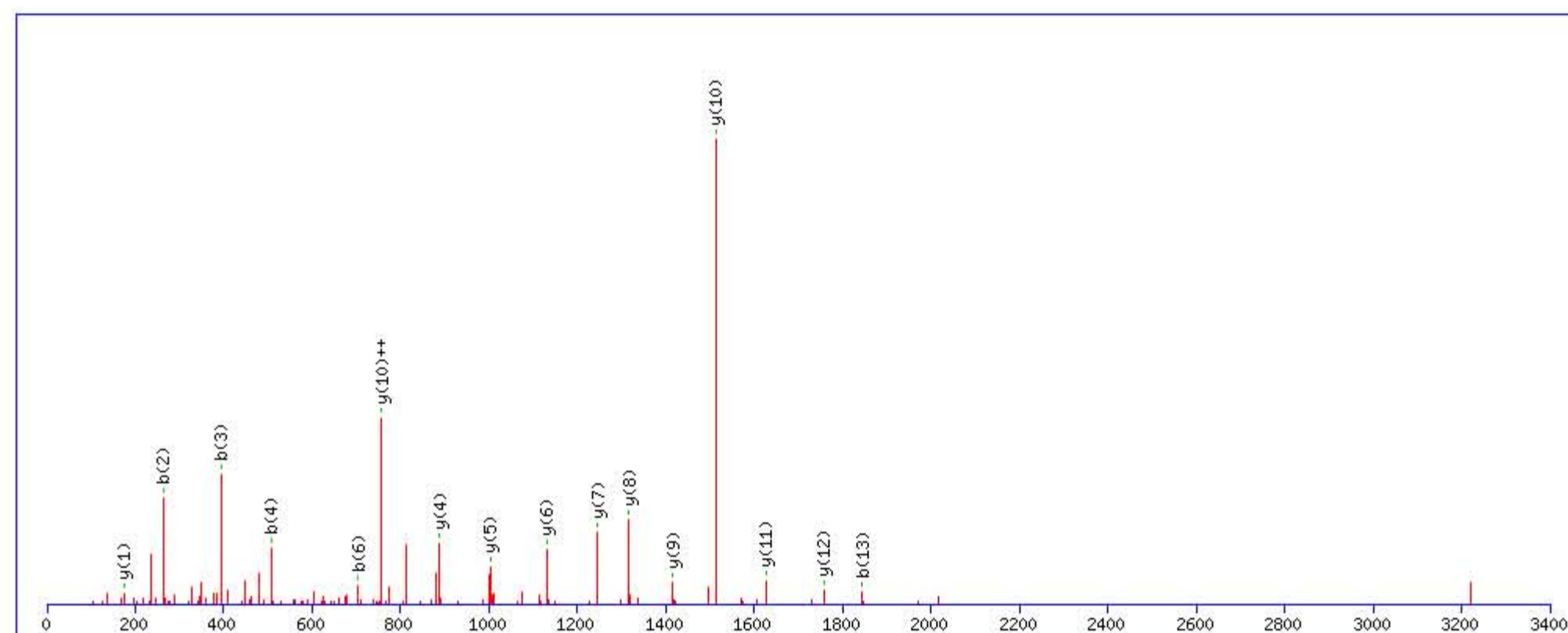
Title: Locus:1.1.1.3333.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2017.978760

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

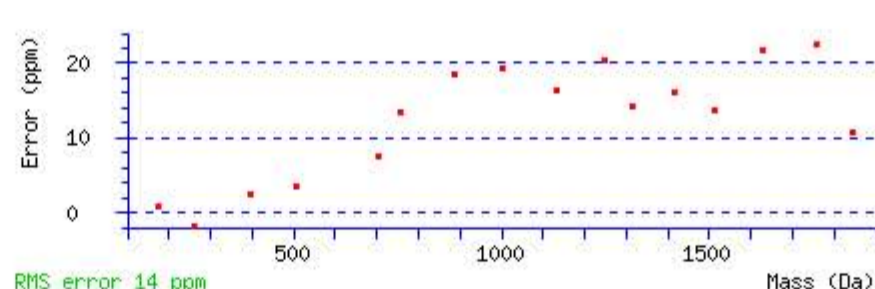
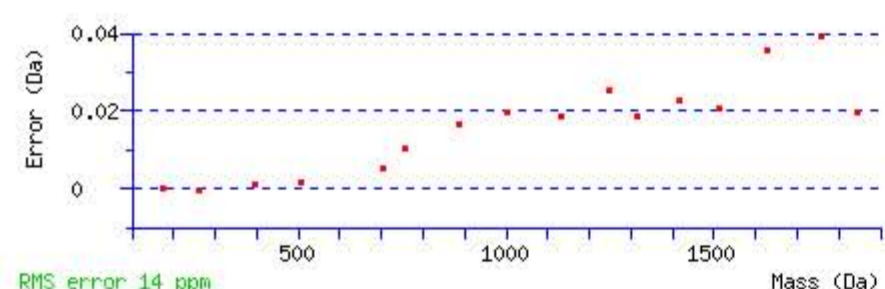
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 85 Expect: 1.3e-008

Matches : 16/118 fragment ions using 19 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							14
2	<b>263.139019</b>	132.073148					V	1855.922710	928.464993	1838.896161	919.951719	1837.912145	919.459711	13
3	<b>394.179504</b>	197.593390					M	<b>1756.854296</b>	878.930786	1739.827747	870.417512	1738.843731	869.925504	12
4	<b>507.263568</b>	254.135422					L	<b>1625.813811</b>	813.410544	1608.787262	804.897269	1607.803246	804.405261	11
5	604.316332	302.661804					P	<b>1512.729747</b>	<b>756.868512</b>	1495.703198	748.355237	1494.719182	747.863229	10
6	<b>703.384746</b>	352.196011					V	<b>1415.676983</b>	708.342130	1398.650434	699.828855	1397.666418	699.336847	9
7	774.421860	387.714568					A	<b>1316.608569</b>	658.807923	1299.582020	650.294648	1298.598004	649.802640	8
8	889.448803	445.228040			871.438238	436.222757	D	<b>1245.571455</b>	623.289366	1228.544906	614.776091	1227.560890	614.284083	7
9	1017.507381	509.257329	1000.480832	500.744054	999.496816	500.252046	Q	<b>1130.544512</b>	565.775894	1113.517963	557.262620	1112.533947	556.770612	6
10	1132.534324	566.770800	1115.507775	558.257526	1114.523759	557.765517	D	<b>1002.485934</b>	501.746605	985.459385	493.233331	984.475369	492.741323	5
11	1571.759650	786.383463	1554.733101	777.870189	1553.749085	777.378181	Q	<b>887.458991</b>	444.233134	870.432442	435.719859			4
12	1731.790299	866.398788	1714.763750	857.885513	1713.779734	857.393505	C	448.233665	224.620470	431.207116	216.107196			3
13	<b>1844.874363</b>	922.940820	1827.847814	914.427545	1826.863798	913.935537	I	288.203016	144.605146	271.176467	136.091871			2
14							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **YVMLPVADQDQCIR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
84.6	2017.978760	0.026268	<a href="#">YVMLPVADQDQCIR</a>
55.6	2017.978760	0.026268	<a href="#">YVMLPVADQDQCIR</a>
0.5	2017.977875	0.027153	<a href="#">ITLTDLFENAYGSSMKGR</a>

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

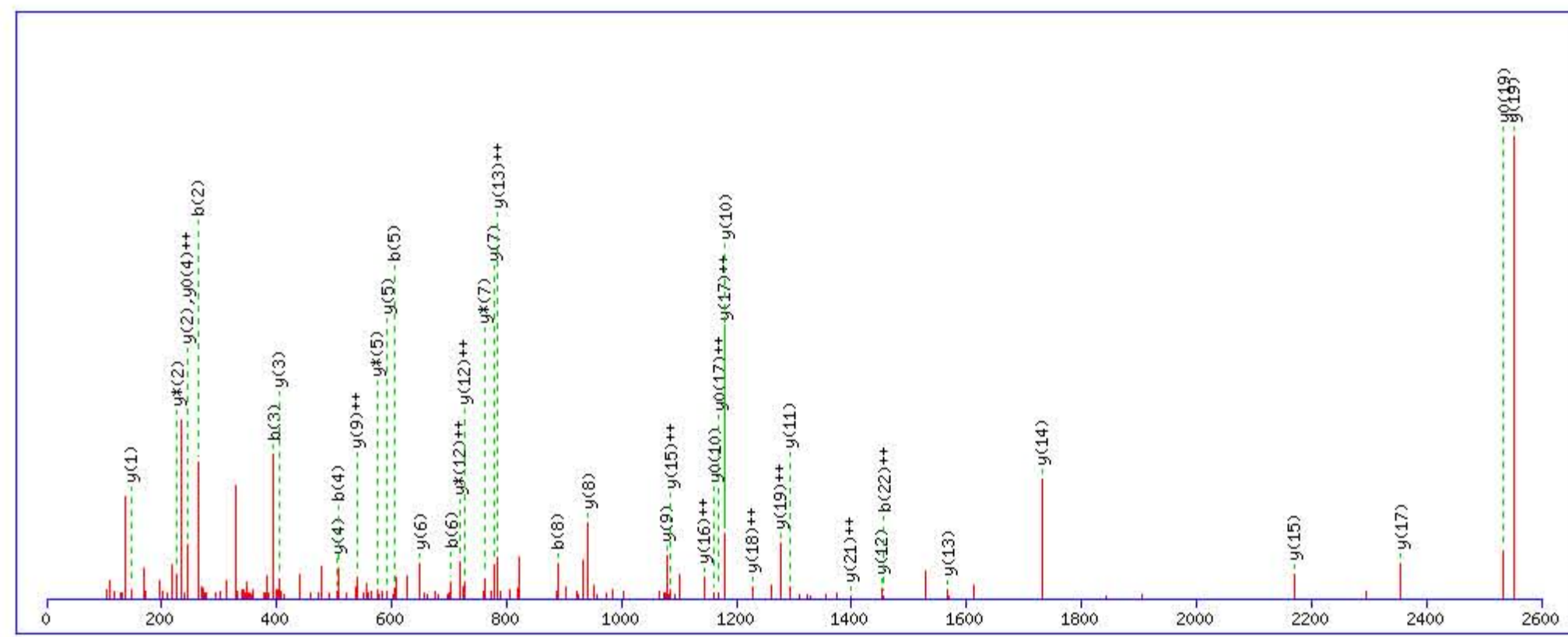
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **YVMLPVADQYDCITHYEGSTCPK**  
 Found in **HPTR\_HUMAN**, Haptoglobin-related protein OS=Homo sapiens GN=HPR PE=1 SV=2

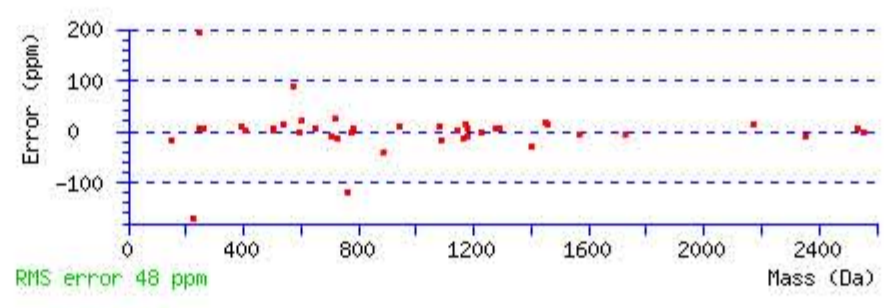
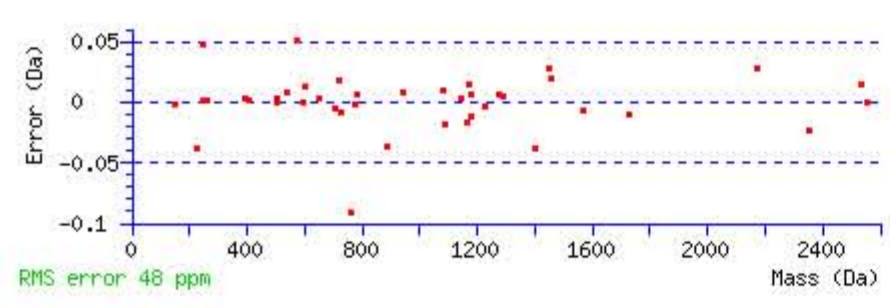
Match to Query 54426: 3057.368096 from(765.349300,4+) rtinseconds(2469) index(34376)  
 Title: Locus:1.1.1.3523.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3057.374466  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q9 : Biotin:Thermo-21345 (Q)  
 Ions Score: 71 Expect: 5.7e-007  
 Matches : 41/228 fragment ions using 104 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							23
2	<b>263.139019</b>	132.073148					V	2895.318410	1448.162843	2878.291861	1439.649568	2877.307845	1439.157560	22
3	<b>394.179504</b>	197.593390					M	2796.249996	<b>1398.628636</b>	2779.223447	1390.115361	2778.239431	1389.623353	21
4	<b>507.263568</b>	254.135422					L	2665.209511	1333.108393	2648.182962	1324.595119	2647.198946	1324.103111	20
5	<b>604.316332</b>	302.661804					P	<b>2552.125447</b>	<b>1276.566361</b>	2535.098898	1268.053087	<b>2534.114882</b>	1267.561079	19
6	<b>703.384746</b>	352.196011					V	2455.072683	<b>1228.039979</b>	2438.046134	1219.526705	2437.062118	1219.034697	18
7	774.421860	387.714568					A	<b>2356.004269</b>	<b>1178.505772</b>	2338.977720	1169.992498	2337.993704	<b>1169.500490</b>	17
8	<b>889.448803</b>	445.228040			871.438238	436.222757	D	2284.967155	<b>1142.987215</b>	2267.940606	1134.473941	2266.956590	1133.981933	16
9	1328.674129	664.840703	1311.647580	656.327428	1310.663564	655.835420	Q	<b>2169.940212</b>	<b>1085.473744</b>	2152.913663	1076.960469	2151.929647	1076.468461	15
10	1491.737458	746.372367	1474.710909	737.859093	1473.726893	737.367085	Y	<b>1730.714886</b>	865.861081	1713.688337	857.347807	1712.704321	856.855799	14
11	1606.764401	803.885839	1589.737852	795.372564	1588.753836	794.880556	D	<b>1567.651557</b>	<b>784.329417</b>	1550.625008	775.816142	1549.640992	775.324134	13
12	1766.795050	883.901163	1749.768501	875.387889	1748.784485	874.895881	C	<b>1452.624614</b>	<b>726.815945</b>	1435.598065	<b>718.302671</b>	1434.614049	717.810663	12
13	1879.879114	940.443195	1862.852565	931.929921	1861.868549	931.437913	I	<b>1292.593965</b>	646.800621	1275.567416	638.287346	1274.583400	637.795338	11
14	1980.926793	990.967035	1963.900244	982.453760	1962.916228	981.961752	T	<b>1179.509901</b>	590.258589	1162.483352	581.745314	<b>1161.499336</b>	581.253306	10
15	2117.985705	1059.496490	2100.959156	1050.983216	2099.975140	1050.491208	H	<b>1078.462222</b>	<b>539.734749</b>	1061.435673	531.221475	1060.451657	530.729467	9
16	2281.049034	1141.028155	2264.022485	1132.514880	2263.038469	1132.022872	Y	<b>941.403310</b>	471.205293	924.376761	462.692018	923.392745	462.200010	8
17	2410.091627	1205.549452	2393.065078	1197.036177	2392.081062	1196.544169	E	<b>778.339981</b>	389.673628	<b>761.313432</b>	381.160354	760.329416	380.668346	7
18	2467.113091	1234.060184	2450.086542	1225.546909	2449.102526	1225.054901	G	<b>649.297388</b>	325.152332	632.270839	316.639057	631.286823	316.147049	6
19	2554.145119	1277.576198	2537.118570	1269.062923	2536.134554	1268.570915	S	<b>592.275924</b>	296.641600	<b>575.249375</b>	288.128325	574.265359	287.636317	5
20	2655.192798	1328.100037	2638.166249	1319.586762	2637.182233	1319.094754	T	<b>505.243896</b>	253.125586	488.217347	244.612311	487.233331	<b>244.120303</b>	4
21	2815.223447	1408.115361	2798.196898	1399.602087	2797.212882	1399.110079	C	<b>404.196217</b>	202.601746	387.169668	194.088472			3
22	2912.276211	<b>1456.641743</b>	2895.249662	1448.128469	2894.265646	1447.636461	P	<b>244.165568</b>	122.586422	<b>227.139019</b>	114.073148			2
23							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **YVMLPVADQYDCITHYEGSTCPK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
71.1	3057.374466	-0.006370	<a href="#">YVMLPVADQYDCITHYEGSTCPK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **NQVAMNPQNTVFDAK**

Found in **HS71L\_HUMAN**, Heat shock 70 kDa protein 1-like OS=Homo sapiens GN=HSPA1L PE=1 SV=2

Match to Query 39065: 1986.965208 from(994.489880,2+) rtinseconds(2174) index(20059)

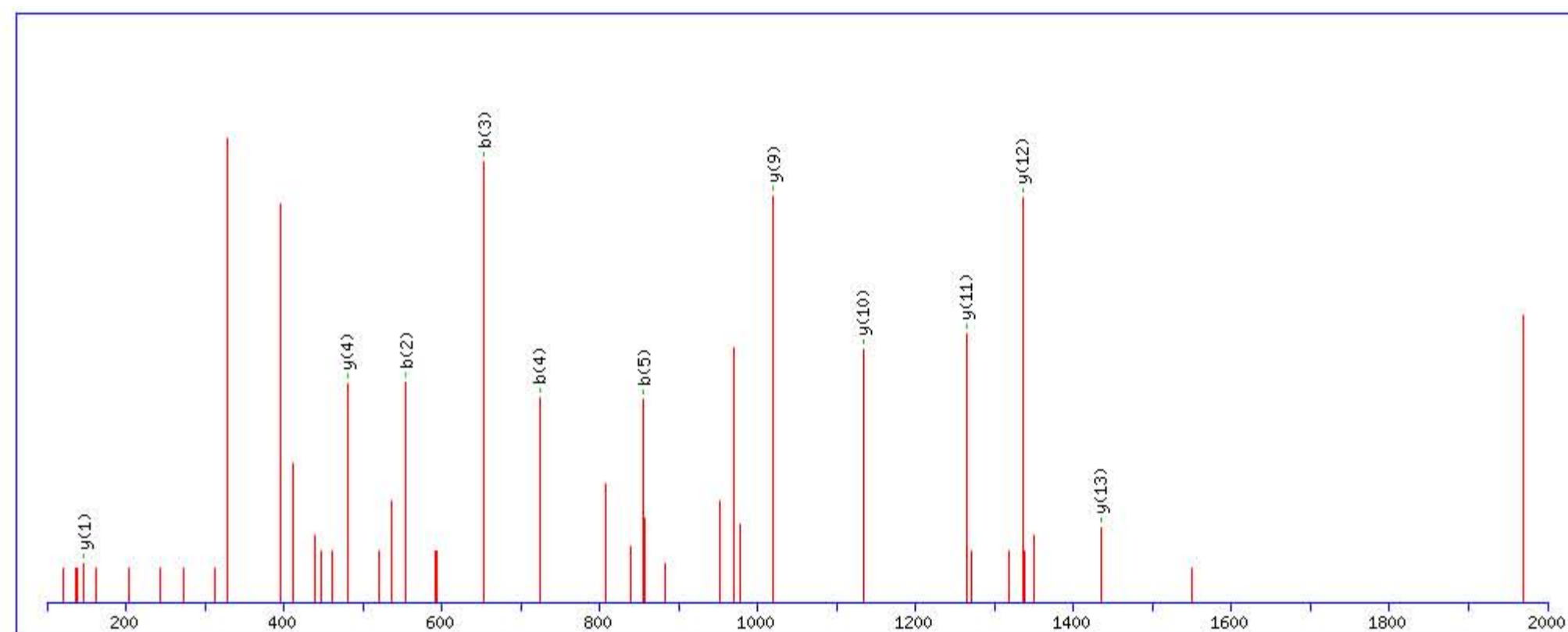
Title: Locus:1.1.1.3322.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1986.965546

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

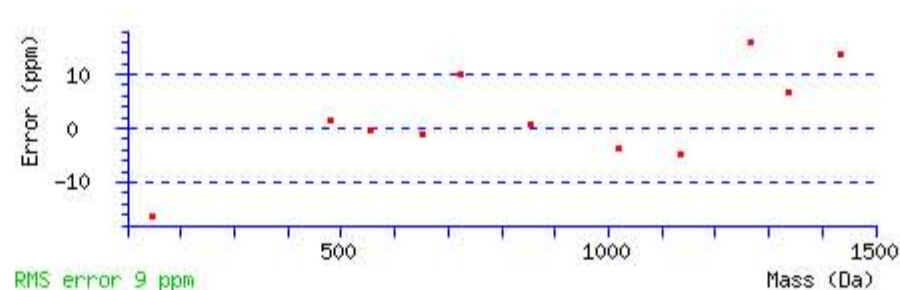
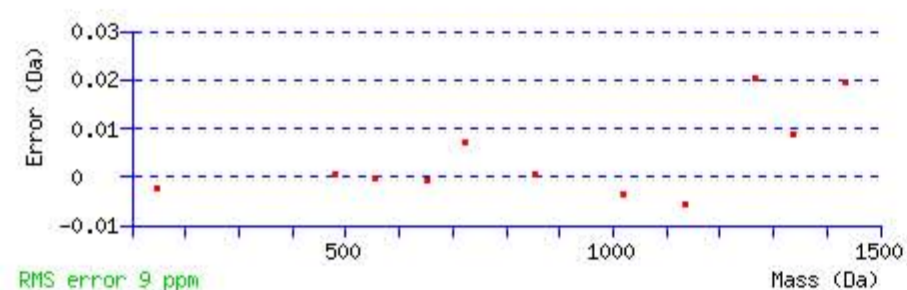
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 54 Expect: 2.1e-005

Matches : 11/146 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							15
2	<b>554.275529</b>	277.641403	537.248980	269.128128			Q	1873.929903	937.468590	1856.903354	928.955315	1855.919338	928.463307	14
3	<b>653.343943</b>	327.175610	636.317394	318.662335			V	<b>1434.704577</b>	717.855927	1417.678028	709.342652	1416.694012	708.850644	13
4	<b>724.381057</b>	362.694166	707.354508	354.180892			A	<b>1335.636163</b>	668.321720	1318.609614	659.808445	1317.625598	659.316437	12
5	<b>855.421542</b>	428.214409	838.394993	419.701134			M	<b>1264.599049</b>	632.803163	1247.572500	624.289888	1246.588484	623.797880	11
6	969.464469	485.235872	952.437920	476.722598			N	<b>1133.558564</b>	567.282920	1116.532015	558.769646	1115.547999	558.277638	10
7	1066.517233	533.762254	1049.490684	525.248980			P	<b>1019.515637</b>	510.261457	1002.489088	501.748182	1001.505072	501.256174	9
8	1194.575811	597.791543	1177.549262	589.278269			Q	922.462873	461.735075	905.436324	453.221800	904.452308	452.729792	8
9	1308.618738	654.813007	1291.592189	646.299733			N	794.404295	397.705786	777.377746	389.192511	776.393730	388.700503	7
10	1409.666417	705.336846	1392.639868	696.823572	1391.655852	696.331564	T	680.361368	340.684322	663.334819	332.171048	662.350803	331.679040	6
11	1508.734831	754.871054	1491.708282	746.357779	1490.724266	745.865771	V	579.313689	290.160483	562.287140	281.647208	561.303124	281.155200	5
12	1655.803245	828.405261	1638.776696	819.891986	1637.792680	819.399978	F	<b>480.245275</b>	240.626276	463.218726	232.113001	462.234710	231.620993	4
13	1770.830188	885.918732	1753.803639	877.405458	1752.819623	876.913450	D	333.176861	167.092069	316.150312	158.578794	315.166296	158.086786	3
14	1841.867302	921.437289	1824.840753	912.924015	1823.856737	912.432007	A	218.149918	109.578597	201.123369	101.065322			2
15							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **NQVAMNPQNTVFDAK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
53.8	1986.965546	-0.000338	<a href="#">NQVAMNPQNTVFDAK</a>
3.5	1986.961700	0.003508	<a href="#">DFQYVLKMETQMK</a>
3.5	1986.961700	0.003508	<a href="#">DFQYVLKMETQMK</a>
0.1	1986.987152	-0.021944	<a href="#">QHSSGQENTVKNPTHVPK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SQIHDIVLVGGSTR**

Found in **HSP7C\_HUMAN**, Heat shock cognate 71 kDa protein OS=Homo sapiens GN=HSPA8 PE=1 SV=1

Match to Query 35560: 1791.968952 from(598.330260,3+) rtinseconds(2011) index(19137)

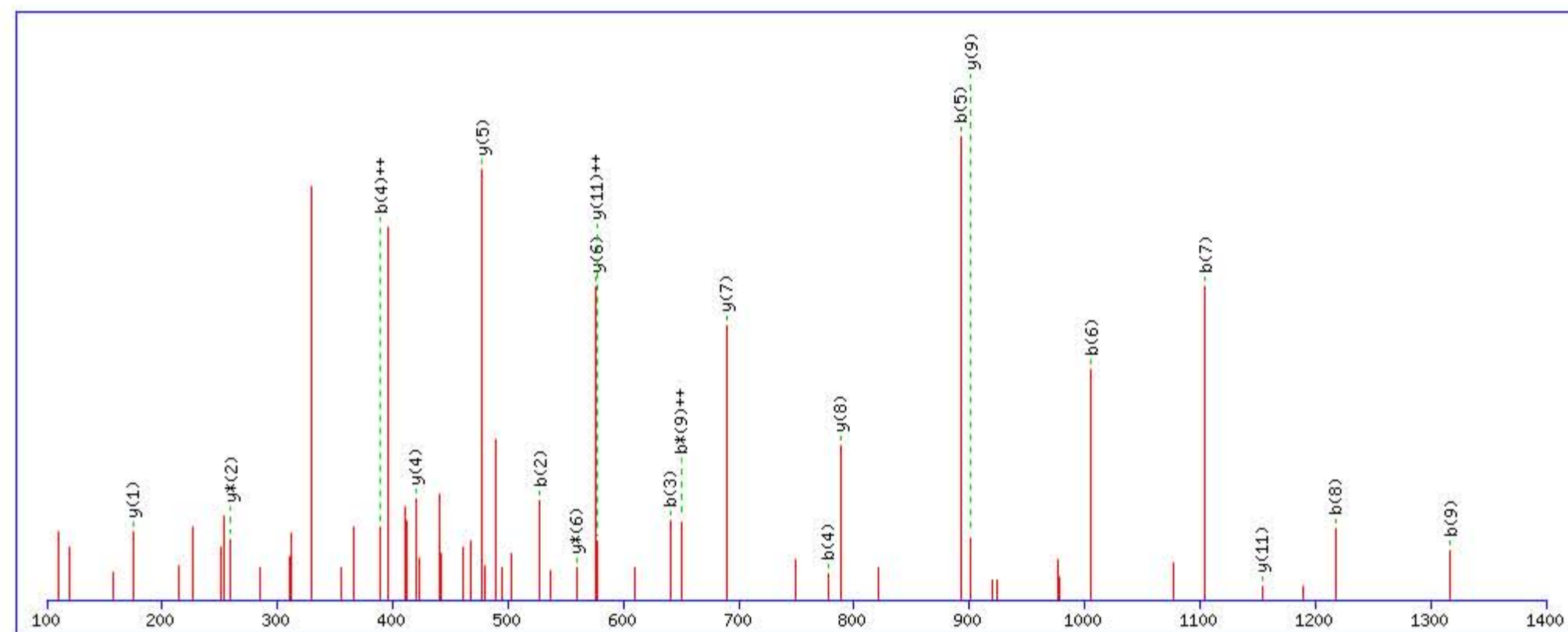
Title: Locus:1.1.1.3266.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1791.966553

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

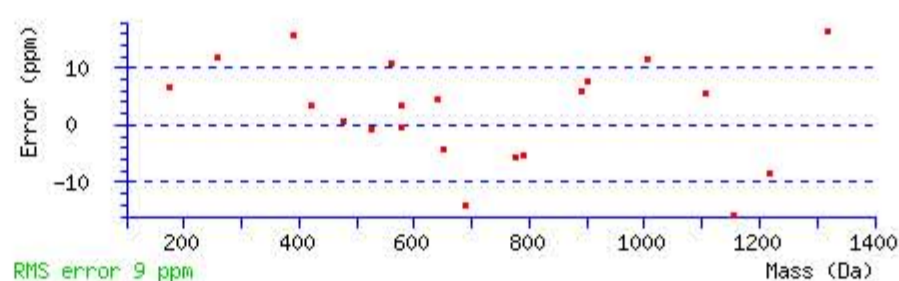
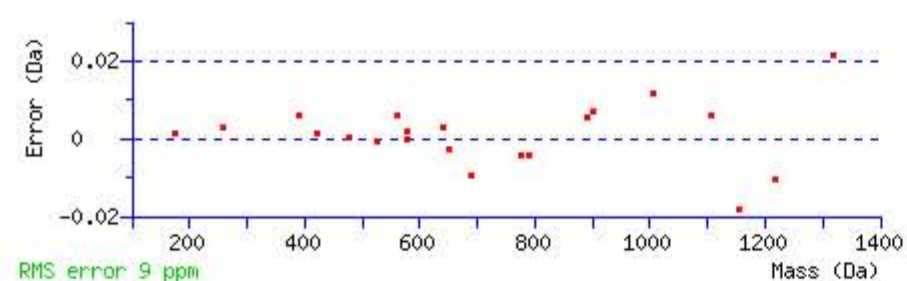
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 46 Expect: 7.3e-005

Matches : 21/152 fragment ions using 39 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							14
2	<b>527.264630</b>	264.135953	510.238081	255.622679	509.254065	255.130671	Q	1705.941788	853.474532	1688.915239	844.961257	1687.931223	844.469249	13
3	<b>640.348694</b>	320.677985	623.322145	312.164711	622.338129	311.672703	I	1266.716462	633.861869	1249.689913	625.348595	1248.705897	624.856587	12
4	<b>777.407606</b>	<b>389.207441</b>	760.381057	380.694166	759.397041	380.202159	H	<b>1153.632398</b>	<b>577.319837</b>	1136.605849	568.806563	1135.621833	568.314554	11
5	<b>892.434549</b>	446.720913	875.408000	438.207638	874.423984	437.715630	D	1016.573486	508.790381	999.546937	500.277107	998.562921	499.785099	10
6	<b>1005.518613</b>	503.262945	988.492064	494.749670	987.508048	494.257662	I	<b>901.546543</b>	451.276910	884.519994	442.763635	883.535978	442.271627	9
7	<b>1104.587027</b>	552.797152	1087.560478	544.283877	1086.576462	543.791869	V	<b>788.462479</b>	394.734878	771.435930	386.221603	770.451914	385.729595	8
8	<b>1217.671091</b>	609.339183	1200.644542	600.825909	1199.660526	600.333901	L	<b>689.394065</b>	345.200671	672.367516	336.687396	671.383500	336.195388	7
9	<b>1316.739505</b>	658.873391	1299.712956	<b>650.360116</b>	1298.728940	649.868108	V	<b>576.310001</b>	288.658639	<b>559.283452</b>	280.145364	558.299436	279.653356	6
10	1373.760969	687.384122	1356.734420	678.870848	1355.750404	678.378840	G	<b>477.241587</b>	239.124431	460.215038	230.611157	459.231022	230.119149	5
11	1430.782433	715.894854	1413.755884	707.381580	1412.771868	706.889572	G	<b>420.220123</b>	210.613699	403.193574	202.100425	402.209558	201.608417	4
12	1517.814461	759.410868	1500.787912	750.897594	1499.803896	750.405586	S	363.198659	182.102968	346.172110	173.589693	345.188094	173.097685	3
13	1618.862140	809.934708	1601.835591	801.421434	1600.851575	800.929425	T	276.166631	138.586953	<b>259.140082</b>	130.073679	258.156066	129.581671	2
14							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SQIHDIVLVGGSTR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
46.2	1791.966553	0.002399	<a href="#">SQIHDIVLVGGSTR</a>
2.1	1791.947891	0.021061	<a href="#">LGYKNSDVINTVLSNR</a>

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

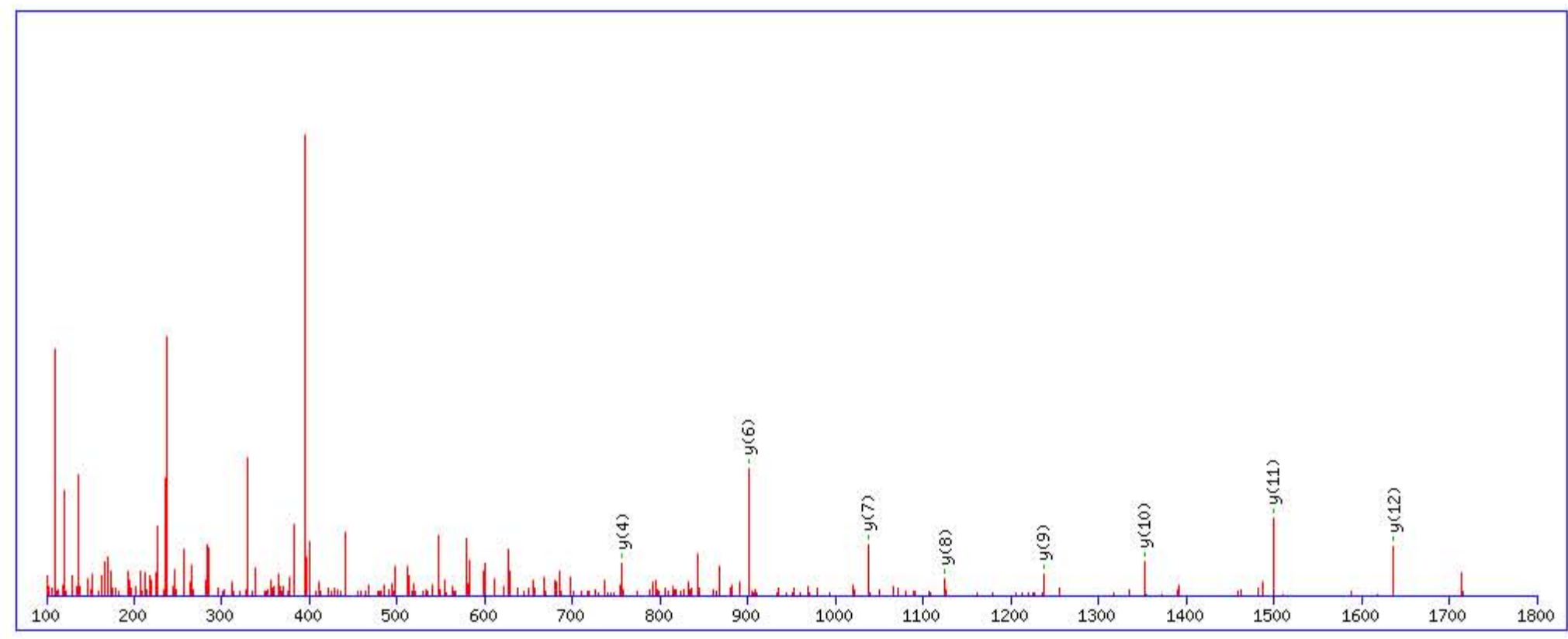
# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **TYFPHFDSLHGSAQVK**  
 Found in **HBA\_HUMAN**, Hemoglobin subunit alpha OS=Homo sapiens GN=HBA1 PE=1 SV=2

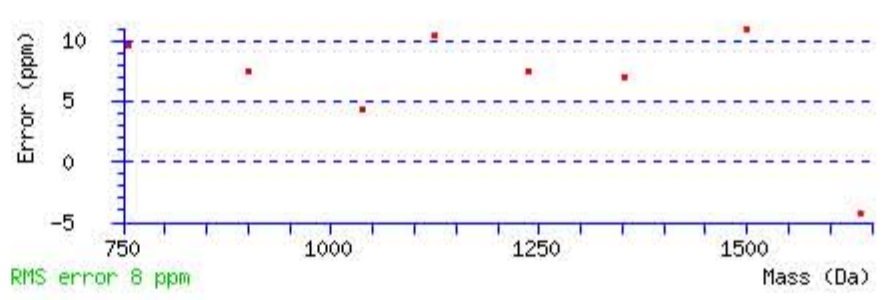
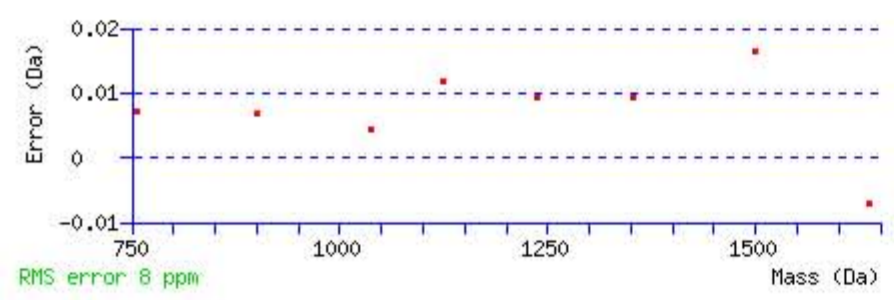
Match to Query 42230: 2144.054976 from(537.021020,4+) rtinseconds(2146) index(5700)  
 Title: Locus:1.1.1.3267.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2144.051346  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q14 : Biotin:Thermo-21345 (Q)  
 Ions Score: 38 Expect: 0.0042  
 Matches : 8/146 fragment ions using 17 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							16
2	265.118284	133.062780			247.107719	124.057498	Y	2044.010930	1022.509103	2026.984381	1013.995829	2026.000365	1013.503821	15
3	412.186698	206.596987			394.176133	197.591705	F	1880.947601	940.977438	1863.921052	932.464164	1862.937036	931.972156	14
4	509.239462	255.123369			491.228897	246.118087	P	1733.879187	867.443231	1716.852638	858.929957	1715.868622	858.437949	13
5	646.298374	323.652825			628.287809	314.647543	H	<b>1636.826423</b>	818.916849	1619.799874	810.403575	1618.815858	809.911567	12
6	793.366788	397.187032			775.356223	388.181750	F	<b>1499.767511</b>	750.387393	1482.740962	741.874119	1481.756946	741.382111	11
7	908.393731	454.700504			890.383166	445.695221	D	<b>1352.699097</b>	676.853186	1335.672548	668.339912	1334.688532	667.847904	10
8	1021.477795	511.242536			1003.467230	502.237253	L	<b>1237.672154</b>	619.339715	1220.645605	610.826441	1219.661589	610.334433	9
9	1108.509823	554.758550			1090.499258	545.753267	S	<b>1124.588090</b>	562.797683	1107.561541	554.284409	1106.577525	553.792400	8
10	1245.568735	623.288006			1227.558170	614.282723	H	<b>1037.556062</b>	519.281669	1020.529513	510.768394	1019.545497	510.276386	7
11	1302.590199	651.798738			1284.579634	642.793455	G	<b>900.497150</b>	450.752213	883.470601	442.238938	882.486585	441.746930	6
12	1389.622227	695.314752			1371.611662	686.309469	S	843.475686	422.241481	826.449137	413.728207	825.465121	413.236199	5
13	1460.659341	730.833309			1442.648776	721.828026	A	<b>756.443658</b>	378.725467	739.417109	370.212192			4
14	1899.884667	950.445972	1882.858118	941.932697	1881.874102	941.440689	Q	685.406544	343.206910	668.379995	334.693635			3
15	1998.953081	999.980179	1981.926532	991.466904	1980.942516	990.974896	V	246.181218	123.594247	229.154669	115.080972			2
16							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [TYFPHFDSLHGSAQVK](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
37.8	2144.051346	0.003630	<a href="#">TYFPHFDSLHGSAQVK</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EFTPPVQAAYQK**

Found in **HBB\_HUMAN**, Hemoglobin subunit beta OS=Homo sapiens GN=HBB PE=1 SV=2

Match to Query 33465: 1688.876348 from(845.445450,2+) rtinseconds(2057) index(5252)

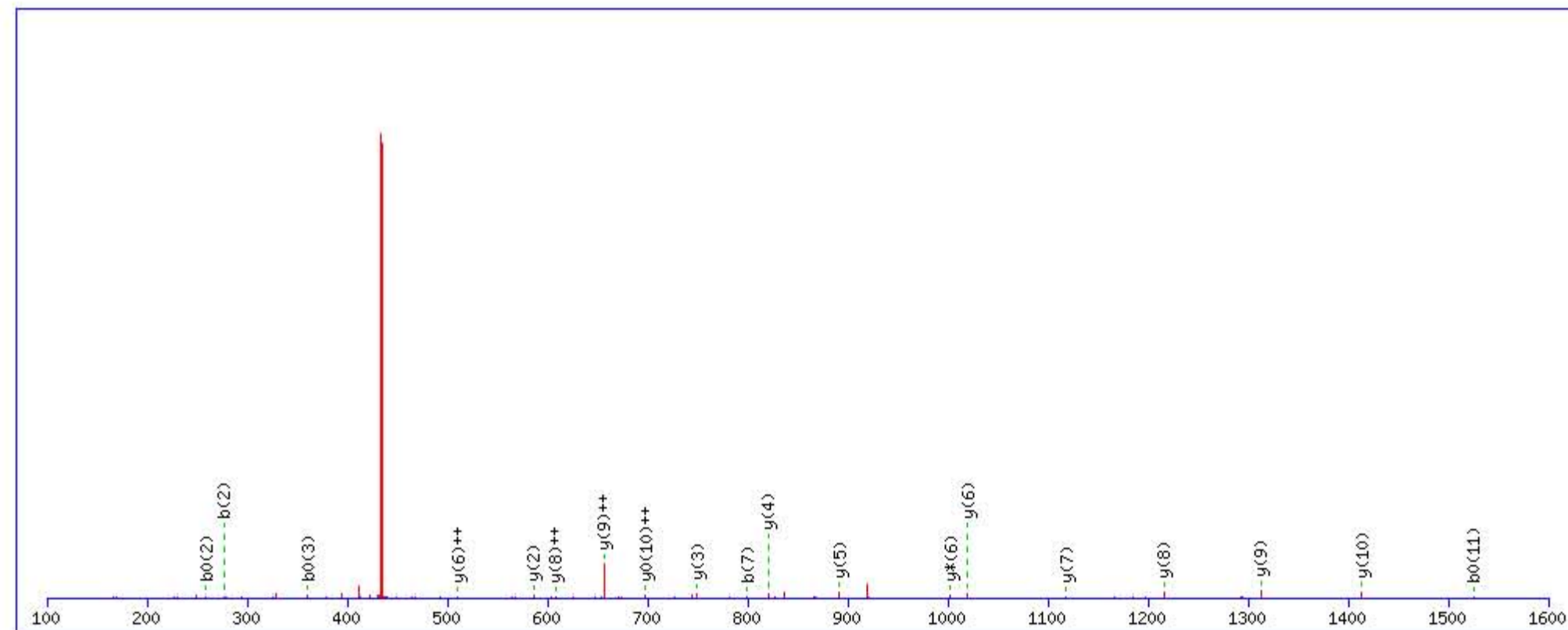
Title: Locus:1.1.1.3236.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1688.859604

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

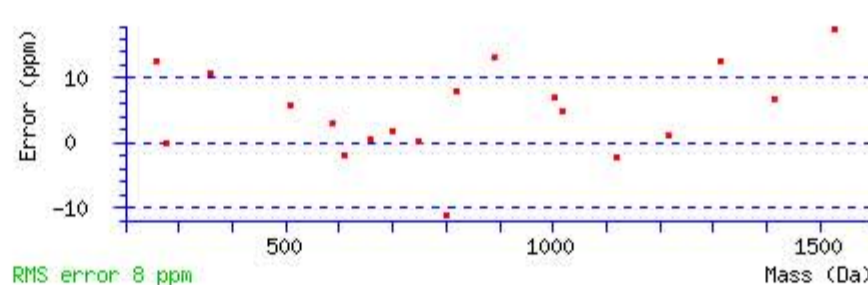
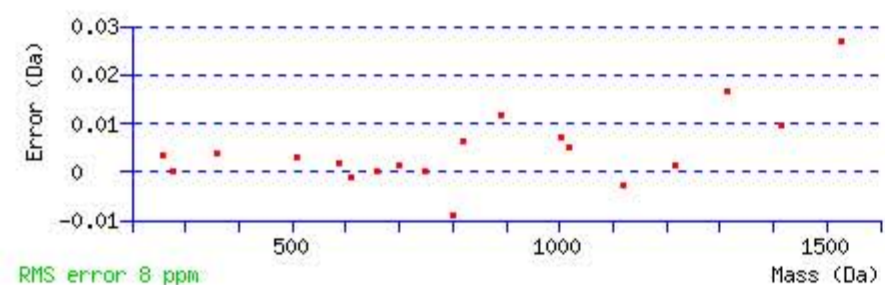
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.00084

Matches : 19/102 fragment ions using 50 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							12
2	<b>277.118283</b>	139.062779			<b>259.107718</b>	130.057497	F	1560.824300	780.915788	1543.797751	772.402514	1542.813735	771.910506	11
3	378.165962	189.586619			<b>360.155397</b>	180.581336	T	<b>1413.755886</b>	707.381581	1396.729337	698.868307	1395.745321	<b>698.376299</b>	10
4	475.218726	238.113001			457.208161	229.107719	P	<b>1312.708207</b>	<b>656.857742</b>	1295.681658	648.344467			9
5	572.271490	286.639383			554.260925	277.634101	P	<b>1215.655443</b>	<b>608.331360</b>	1198.628894	599.818085			8
6	671.339904	336.173590			653.329339	327.168308	V	<b>1118.602679</b>	559.804978	1101.576130	551.291703			7
7	<b>799.398482</b>	400.202879	782.371933	391.689605	781.387917	391.197597	Q	<b>1019.534265</b>	<b>510.270771</b>	<b>1002.507716</b>	501.757496			6
8	870.435596	435.721436	853.409047	427.208162	852.425031	426.716154	A	<b>891.475687</b>	446.241482	874.449138	437.728207			5
9	941.472710	471.239993	924.446161	462.726719	923.462145	462.234711	A	<b>820.438573</b>	410.722925	803.412024	402.209650			4
10	1104.536039	552.771658	1087.509490	544.258383	1086.525474	543.766375	Y	<b>749.401459</b>	375.204368	732.374910	366.691093			3
11	1543.761365	772.384321	1526.734816	763.871046	<b>1525.750800</b>	763.379038	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
12							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EFTPPVQAAYQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
33.2	1688.859604	0.016744	<a href="#">EFTPPVQAAYQK</a>
14.6	1688.859604	0.016744	<a href="#">EFTPPVQAAYQK</a>
0.4	1688.874008	0.002340	<a href="#">MSSQKGNVARSRPQK</a>
0.0	1688.877563	-0.001215	<a href="#">TEMAMLVTQARK</a>

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **YYCFQGNQFLR**

Found in **HEMO\_HUMAN**, Hemopexin OS=Homo sapiens GN=HPX PE=1 SV=2

Match to Query 35819: 1805.852468 from(903.933510,2+) rtinseconds(2314) index(62292)

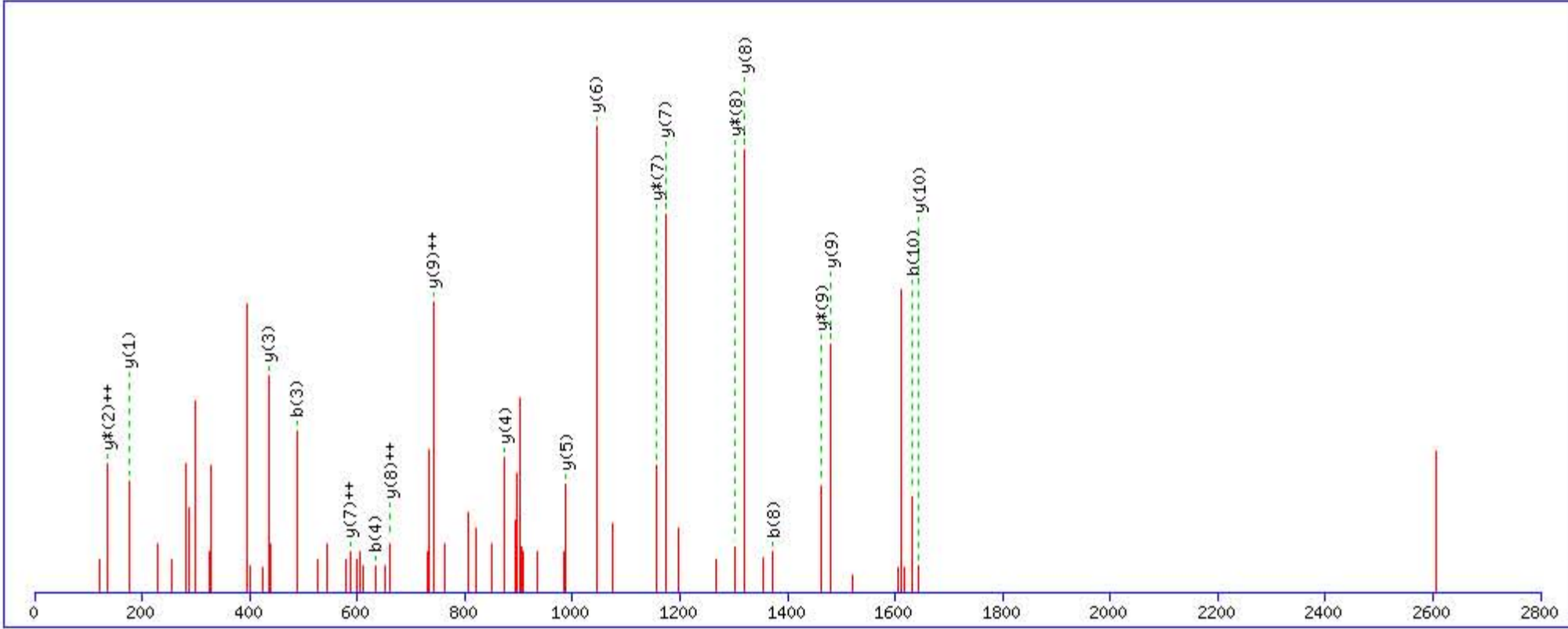
Title: Locus:1.1.1.1717.12 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1805.838165

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

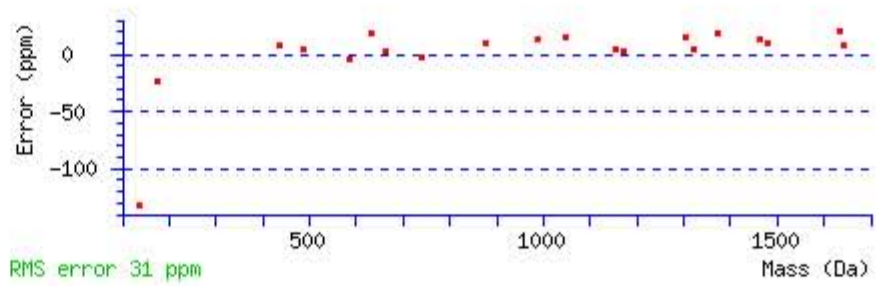
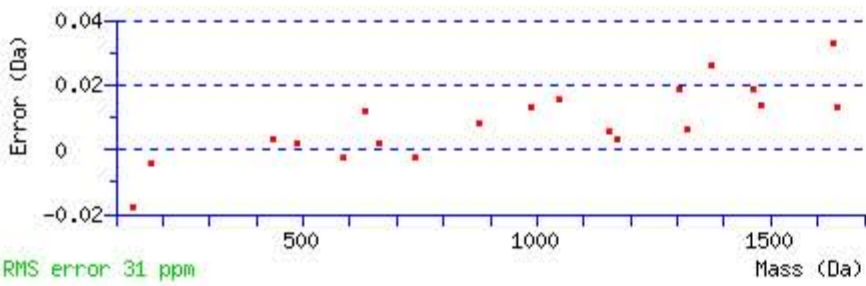
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 58 Expect: 8.2e-006

Matches : 20/72 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	#
1	164.070605	82.538940			Y					11
2	327.133934	164.070605			Y	1643.782117	822.394697	1626.755568	813.881422	10
3	487.164583	244.085930			C	1480.718788	740.863032	1463.692239	732.349758	9
4	634.232997	317.620137			F	1320.688139	660.847708	1303.661590	652.334433	8
5	762.291575	381.649426	745.265026	373.136151	Q	1173.619725	587.313501	1156.593176	578.800226	7
6	819.313039	410.160158	802.286490	401.646883	G	1045.561147	523.284212	1028.534598	514.770937	6
7	933.355966	467.181621	916.329417	458.668347	N	988.539683	494.773480	971.513134	486.260205	5
8	1372.581292	686.794284	1355.554743	678.281010	Q	874.496756	437.752016	857.470207	429.238742	4
9	1519.649706	760.328491	1502.623157	751.815217	F	435.271430	218.139353	418.244881	209.626078	3
10	1632.733770	816.870523	1615.707221	808.357249	L	288.203016	144.605146	271.176467	136.091871	2
11					R	175.118952	88.063114	158.092403	79.549839	1



NCBI BLAST search of [YYCFQGNQFLR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
58.1	1805.838165	0.014303	<a href="#">YYCFQGNQFLR</a>
35.0	1805.838165	0.014303	<a href="#">YYCFQGNQFLR</a>
3.7	1805.873886	-0.021418	<a href="#">QMFQERSSR</a>
2.3	1805.873032	-0.020564	<a href="#">VSTGDNWNGIMKDTLR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GECQAEGVLFFQGDR**

Found in **HEMO\_HUMAN**, Hemopexin OS=Homo sapiens GN=HPX PE=1 SV=2

Match to Query 40252: 2022.937528 from(1012.476040,2+) rtinseconds(2426) index(62845)

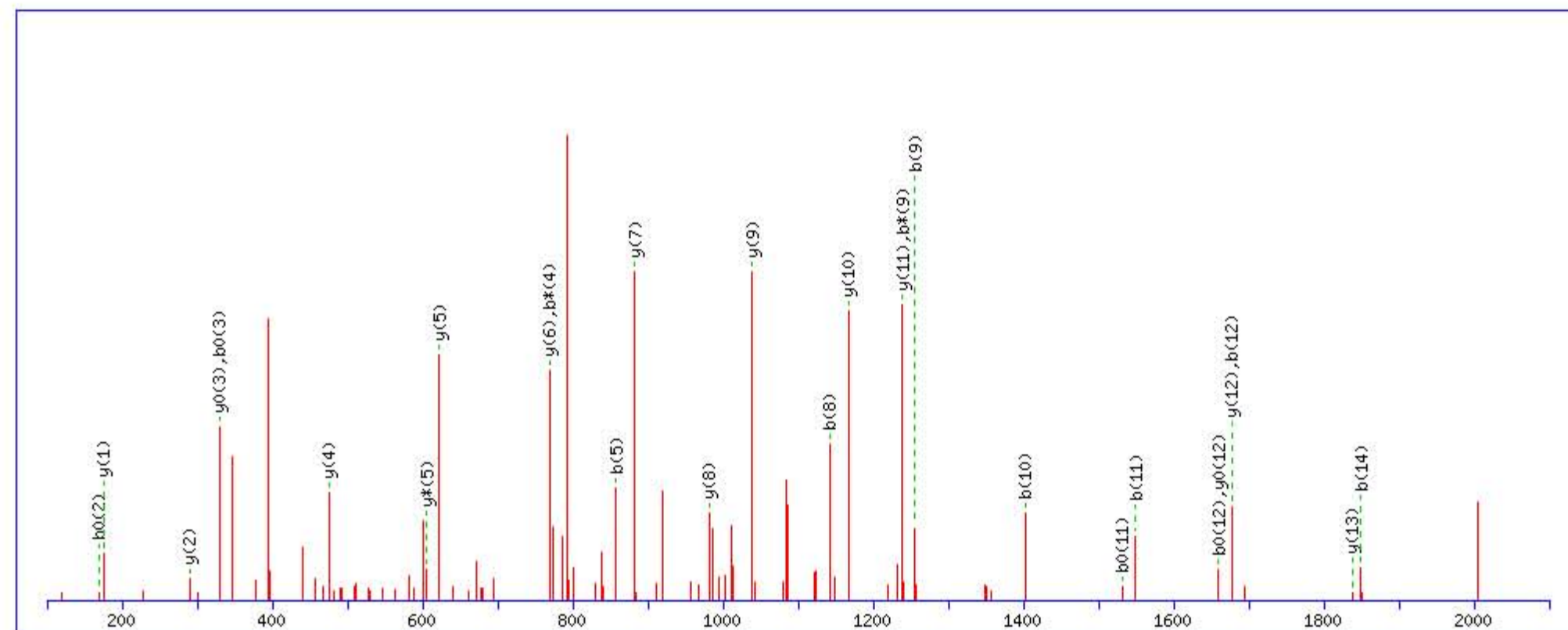
Title: Locus:1.1.1.1756.12 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2022.929184

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

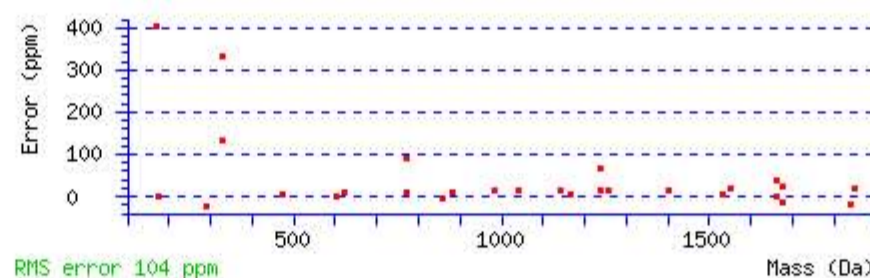
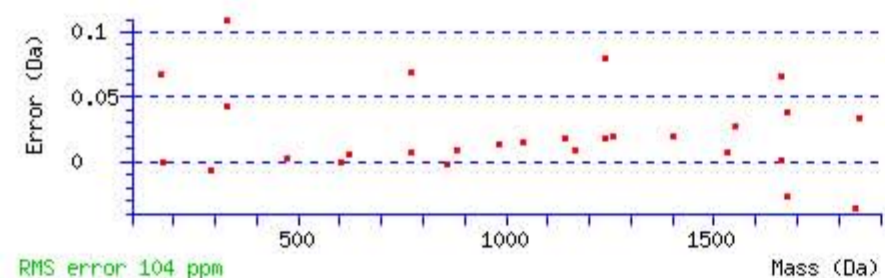
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 96 Expect: 1.9e-009

Matches : 28/158 fragment ions using 33 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							15
2	187.071333	94.039305			169.060768	85.034022	E	1966.914982	983.961129	1949.888433	975.447855	1948.904417	974.955847	14
3	347.101982	174.054629			329.091417	165.049347	C	1837.872389	919.439833	1820.845840	910.926558	1819.861824	910.434550	13
4	786.327308	393.667292	769.300759	385.154018	768.316743	384.662010	Q	1677.841740	839.424508	1660.815191	830.911234	1659.831175	830.419226	12
5	857.364422	429.185849	840.337873	420.672575	839.353857	420.180567	A	1238.616414	619.811845	1221.589865	611.298571	1220.605849	610.806563	11
6	986.407015	493.707146	969.380466	485.193871	968.396450	484.701863	E	1167.579300	584.293288	1150.552751	575.780014	1149.568735	575.288006	10
7	1043.428479	522.217878	1026.401930	513.704603	1025.417914	513.212595	G	1038.536707	519.771992	1021.510158	511.258717	1020.526142	510.766709	9
8	1142.496893	571.752085	1125.470344	563.238810	1124.486328	562.746802	V	981.515243	491.261260	964.488694	482.747985	963.504678	482.255977	8
9	1255.580957	628.294117	1238.554408	619.780842	1237.570392	619.288834	L	882.446829	441.727053	865.420280	433.213778	864.436264	432.721770	7
10	1402.649371	701.828324	1385.622822	693.315049	1384.638806	692.823041	F	769.362765	385.185021	752.336216	376.671746	751.352200	376.179738	6
11	1549.717785	775.362531	1532.691236	766.849256	1531.707220	766.357248	F	622.294351	311.650814	605.267802	303.137539	604.283786	302.645531	5
12	1677.776363	839.391820	1660.749814	830.878545	1659.765798	830.386537	Q	475.225937	238.116606	458.199388	229.603332	457.215372	229.111324	4
13	1734.797827	867.902552	1717.771278	859.389277	1716.787262	858.897269	G	347.167359	174.087317	330.140810	165.574043	329.156794	165.082035	3
14	1849.824770	925.416023	1832.798221	916.902749	1831.814205	916.410741	D	290.145895	145.576585	273.119346	137.063311	272.135330	136.571303	2
15							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GECQAEGVLFFQGDR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
95.9	2022.929184	0.008344	<a href="#">GECQAEGVLFFQGDR</a>
20.4	2022.929184	0.008344	<a href="#">GECQAEGVLFFQGDR</a>
2.8	2022.950317	-0.012789	<a href="#">NMSFVNDLTVTQDGR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SGAQATWTLPWPHEK**

Found in **HEMO\_HUMAN**, Hemopexin OS=Homo sapiens GN=HPX PE=1 SV=2

Match to Query 42288: 2148.056742 from(717.026190,3+) rtinseconds(2317) index(62305)

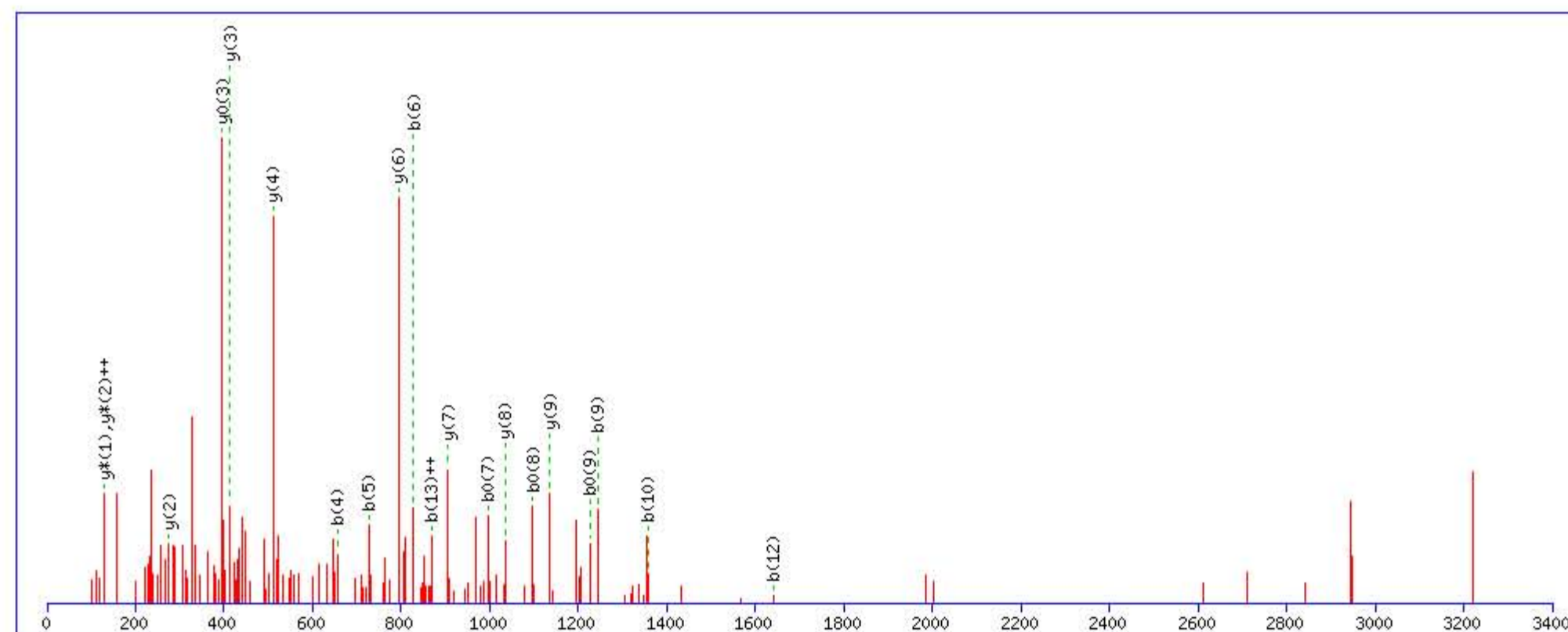
Title: Locus:1.1.1.1718.12 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2148.046234

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

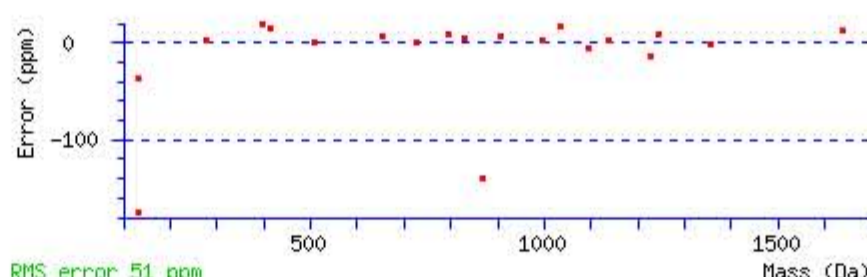
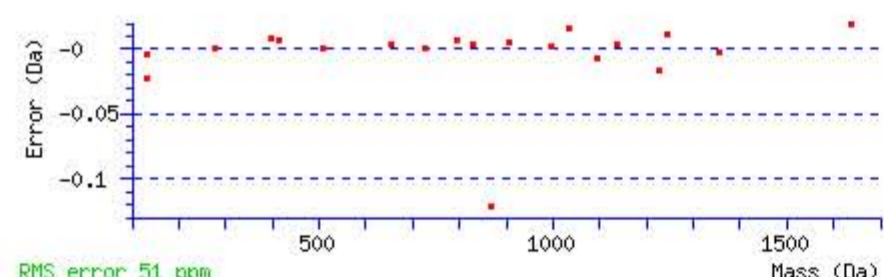
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 43 Expect: 0.00012

Matches : 20/172 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							16
2	145.060768	73.034022			127.050203	64.028740	G	2062.021496	1031.514386	2044.994947	1023.001111	2044.010931	1022.509103	15
3	216.097882	108.552579			198.087317	99.547296	A	2005.000032	1003.003654	1987.973483	994.490380	1986.989467	993.998372	14
4	<b>655.323208</b>	328.165242	638.296659	319.651968	637.312643	319.159960	Q	1933.962918	967.485097	1916.936369	958.971823	1915.952353	958.479815	13
5	<b>726.360322</b>	363.683799	709.333773	355.170525	708.349757	354.678517	A	1494.737592	747.872434	1477.711043	739.359160	1476.727027	738.867152	12
6	<b>827.408001</b>	414.207639	810.381452	405.694364	809.397436	405.202356	T	1423.700478	712.353877	1406.673929	703.840603	1405.689913	703.348595	11
7	1013.487314	507.247295	996.460765	498.734020	<b>995.476749</b>	498.242012	W	1322.652799	661.830038	1305.626250	653.316763	1304.642234	652.824755	10
8	1114.534993	557.771135	1097.508444	549.257860	<b>1096.524428</b>	548.765852	T	<b>1136.573486</b>	568.790381	1119.546937	560.277107	1118.562921	559.785099	9
9	<b>1243.577586</b>	622.292431	1226.551037	613.779157	<b>1225.567021</b>	613.287149	E	<b>1035.525807</b>	518.266542	1018.499258	509.753267	1017.515242	509.261259	8
10	<b>1356.661650</b>	678.834463	1339.635101	670.321189	1338.651085	669.829181	L	<b>906.483214</b>	453.745245	889.456665	445.231971	888.472649	444.739963	7
11	1453.714414	727.360845	1436.687865	718.847571	1435.703849	718.355563	P	<b>793.399150</b>	397.203213	776.372601	388.689939	775.388585	388.197931	6
12	<b>1639.793727</b>	820.400502	1622.767178	811.887227	1621.783162	811.395219	W	696.346386	348.676831	679.319837	340.163557	678.335821	339.671549	5
13	1736.846491	<b>868.926884</b>	1719.819942	860.413609	1718.835926	859.921601	P	<b>510.267073</b>	255.637175	493.240524	247.123900	492.256508	246.631892	4
14	1873.905403	937.456340	1856.878854	928.943065	1855.894838	928.451057	H	<b>413.214309</b>	207.110793	396.187760	198.597518	<b>395.203744</b>	198.105510	3
15	2002.947996	1001.977636	1985.921447	993.464362	1984.937431	992.972354	E	<b>276.155397</b>	138.581337	259.128848	<b>130.068062</b>	258.144832	129.576054	2
16							K	147.112804	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **SGAQATWTLPWPHEK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
42.5	2148.046234	0.010508	<a href="#">SGAQATWTLPWPHEK</a>
0.5	2148.049408	0.007334	<a href="#">EPEGPAQA AVASGCLTRHAAR</a>

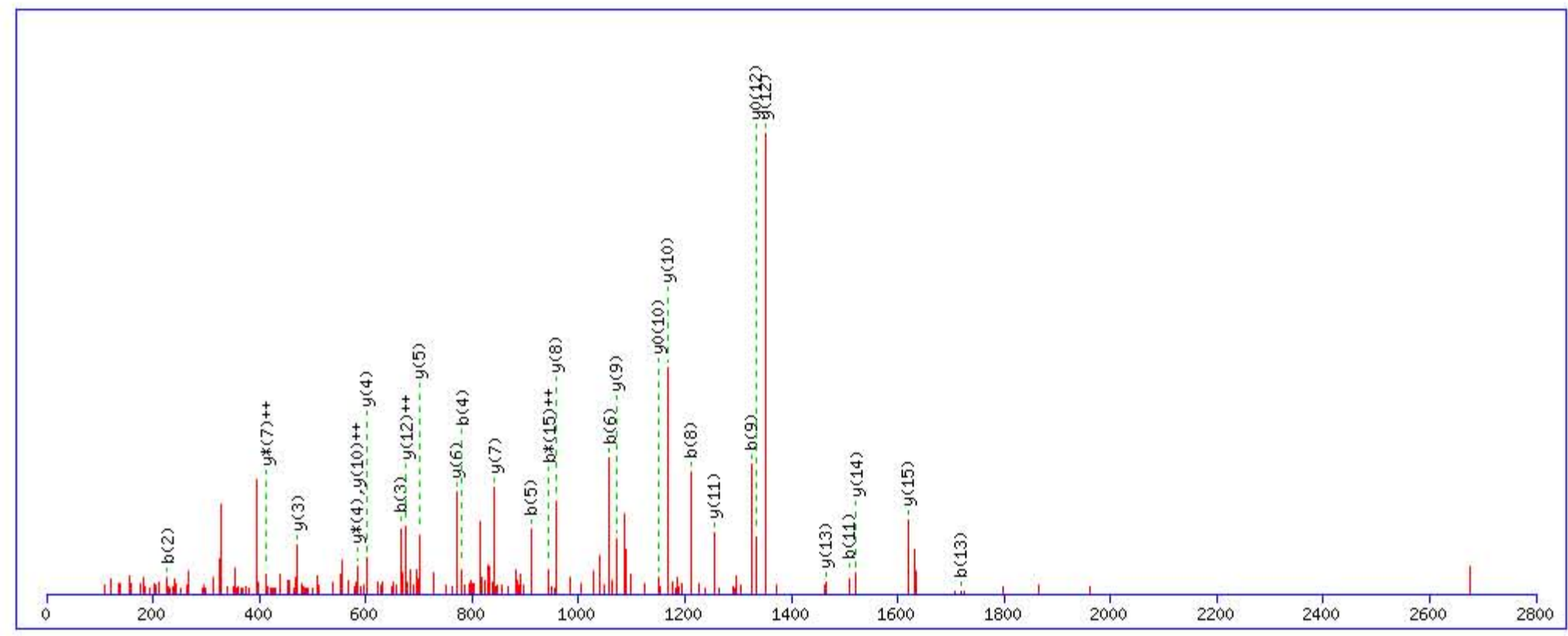
# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **LLQDEFPGIPSPLDAAVECHR**  
Found in **HEMO\_HUMAN**, Hemopexin OS=Homo sapiens GN=HPX PE=1 SV=2

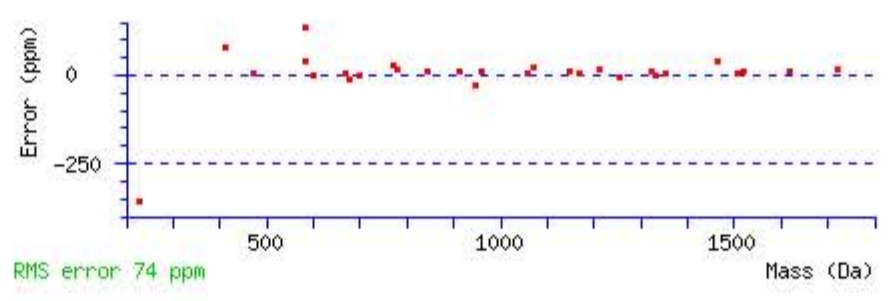
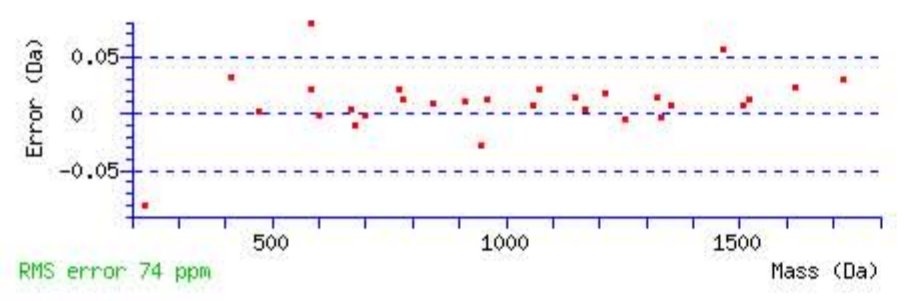
Match to Query 50162: 2674.346472 from(892.456100,3+) rtinseconds(2693) index(64372)  
Title: Locus:1.1.1.1848.9 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
Or, Plot from 0 to 2800 Da Full range  
Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2674.324722  
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
Variable modifications:  
Q3 : Biotin:Thermo-21345 (Q)  
Ions Score: 80 Expect: 2.8e-007  
Matches : 29/224 fragment ions using 51 most intense peaks (help)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							21
2	<b>227.175404</b>	114.091340					L	2562.247943	1281.627609	2545.221394	1273.114335	2544.237378	1272.622327	20
3	<b>666.400730</b>	333.704003	649.374181	325.190729			Q	2449.163879	1225.085577	2432.137330	1216.572303	2431.153314	1216.080295	19
4	<b>781.427673</b>	391.217475	764.401124	382.704200	763.417108	382.212192	D	2009.938553	1005.472914	1992.912004	996.959640	1991.927988	996.467632	18
5	<b>910.470266</b>	455.738771	893.443717	447.225497	892.459701	446.733489	E	1894.911610	947.959443	1877.885061	939.446169	1876.901045	938.954160	17
6	<b>1057.538680</b>	529.272978	1040.512131	520.759704	1039.528115	520.267696	F	1765.869017	883.438146	1748.842468	874.924872	1747.858452	874.432864	16
7	1154.591444	577.799360	1137.564895	569.286086	1136.580879	568.794078	P	<b>1618.800603</b>	809.903939	1601.774054	801.390665	1600.790038	800.898657	15
8	<b>1211.612908</b>	606.310092	1194.586359	597.796818	1193.602343	597.304810	G	<b>1521.747839</b>	761.377557	1504.721290	752.864283	1503.737274	752.372275	14
9	<b>1324.696972</b>	662.852124	1307.670423	654.338850	1306.686407	653.846841	I	<b>1464.726375</b>	732.866825	1447.699826	724.353551	1446.715810	723.861543	13
10	1421.749736	711.378506	1404.723187	702.865232	1403.739171	702.373223	P	<b>1351.642311</b>	<b>676.324793</b>	1334.615762	667.811519	<b>1333.631746</b>	667.319511	12
11	<b>1508.781764</b>	754.894520	1491.755215	746.381246	1490.771199	745.889238	S	<b>1254.589547</b>	627.798411	1237.562998	619.285137	1236.578982	618.793129	11
12	1605.834528	803.420902	1588.807979	794.907628	1587.823963	794.415620	P	<b>1167.557519</b>	<b>584.282397</b>	1150.530970	575.769123	<b>1149.546954</b>	575.277115	10
13	<b>1718.918592</b>	859.962934	1701.892043	851.449660	1700.908027	850.957652	L	<b>1070.504755</b>	535.756015	1053.478206	527.242741	1052.494190	526.750733	9
14	1833.945535	917.476406	1816.918986	908.963131	1815.934970	908.471123	D	<b>957.420691</b>	479.213983	940.394142	470.700709	939.410126	470.208701	8
15	1904.982649	952.994963	1887.956100	<b>944.481688</b>	1886.972084	943.989680	A	<b>842.393748</b>	421.700512	825.367199	<b>413.187237</b>	824.383183	412.695229	7
16	1976.019763	988.513520	1958.993214	980.000245	1958.009198	979.508237	A	<b>771.356634</b>	386.181955	754.330085	377.668680	753.346069	377.176672	6
17	2075.088177	1038.047726	2058.061628	1029.534452	2057.077612	1029.042444	V	<b>700.319520</b>	350.663398	683.292971	342.150123	682.308955	341.658115	5
18	2204.130770	1102.569023	2187.104221	1094.055748	2186.120205	1093.563740	E	<b>601.251106</b>	301.129191	<b>584.224557</b>	292.615916	583.240541	292.123908	4
19	2364.161419	1182.584347	2347.134870	1174.071073	2346.150854	1173.579065	C	<b>472.208513</b>	236.607894	455.181964	228.094620			3
20	2501.220331	1251.113803	2484.193782	1242.600529	2483.209766	1242.108521	H	312.177864	156.592570	295.151315	148.079295			2
21							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LLQDEFPGIPSPLDAAVECHR**  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
80.0	2674.324722	0.021750	<a href="#">LLQDEFPGIPSPLDAAVECHR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GPLDQLEK**

Found in **HEP2\_HUMAN**, Heparin cofactor 2 OS=Homo sapiens GN=SERPIND1 PE=1 SV=3

Match to Query 17960: 1209.640928 from(605.827740,2+) rtinseconds(2104) index(32473)

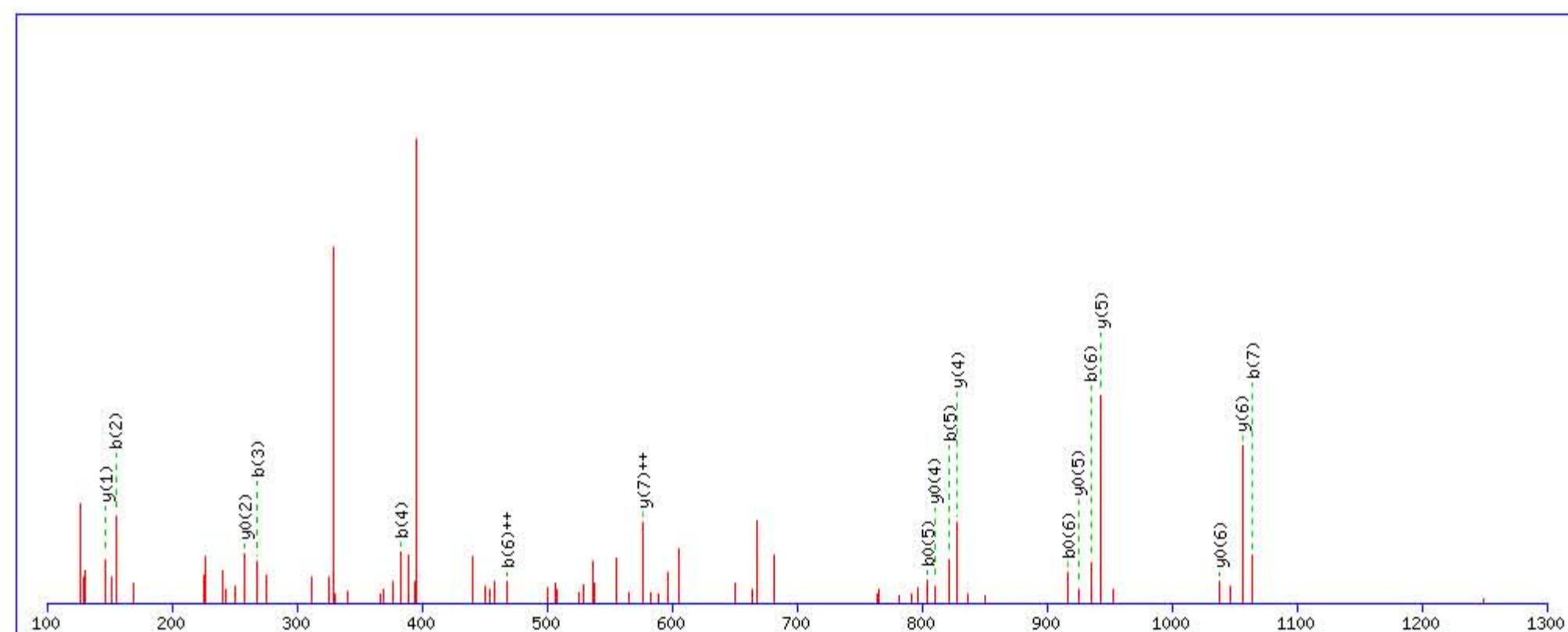
Title: Locus:1.1.1.3396.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1209.642731

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

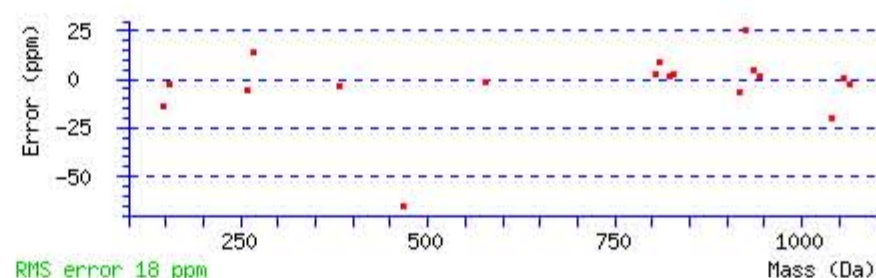
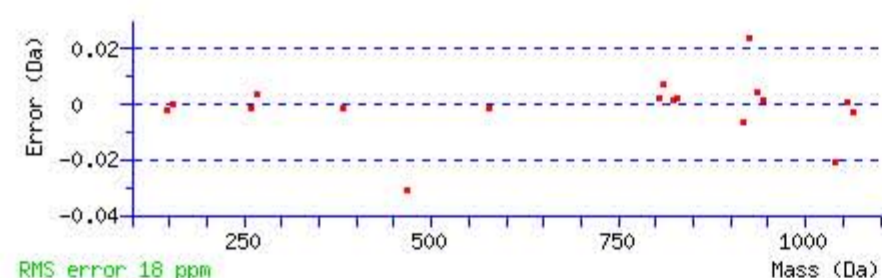
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.009

Matches : 18/68 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					<b>G</b>							8
2	<b>155.081504</b>	78.044390					<b>P</b>	1153.628558	<b>577.317917</b>	1136.602009	568.804643	1135.617993	568.312635	7
3	<b>268.165568</b>	134.586422					<b>L</b>	<b>1056.575794</b>	528.791535	1039.549245	520.278261	<b>1038.565229</b>	519.786253	6
4	<b>383.192511</b>	192.099894			365.181946	183.094611	<b>D</b>	<b>943.491730</b>	472.249503	926.465181	463.736228	<b>925.481165</b>	463.244220	5
5	<b>822.417837</b>	411.712557	805.391288	403.199282	<b>804.407272</b>	402.707274	<b>Q</b>	<b>828.464787</b>	414.736032	811.438238	406.222757	<b>810.454222</b>	405.730749	4
6	<b>935.501901</b>	<b>468.254589</b>	918.475352	459.741314	<b>917.491336</b>	459.249306	<b>L</b>	389.239461	195.123368	372.212912	186.610094	371.228896	186.118086	3
7	<b>1064.544494</b>	532.775885	1047.517945	524.262611	1046.533929	523.770603	<b>E</b>	276.155397	138.581336	259.128848	130.068062	<b>258.144832</b>	129.576054	2
8							<b>K</b>	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [GPLDQLEK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
31.5	1209.642731	-0.001803	<a href="#">GPLDQLEK</a>
9.1	1209.646545	-0.005617	<a href="#">EHNRLATELK</a>
9.0	1209.628799	0.012129	<a href="#">TRFRIEMNK</a>
4.3	1209.628815	0.012113	<a href="#">GLGHMPRAVEK</a>
2.0	1209.642731	-0.001803	<a href="#">GTGEFIKALMK</a>
0.4	1209.635330	0.005598	<a href="#">GPLAIREDPK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **TLEAQLTPR**

Found in **HEP2\_HUMAN**, Heparin cofactor 2 OS=Homo sapiens GN=SERPIND1 PE=1 SV=3

Match to Query 21093: 1338.722428 from(670.368490,2+) rtinseconds(1974) index(31671)

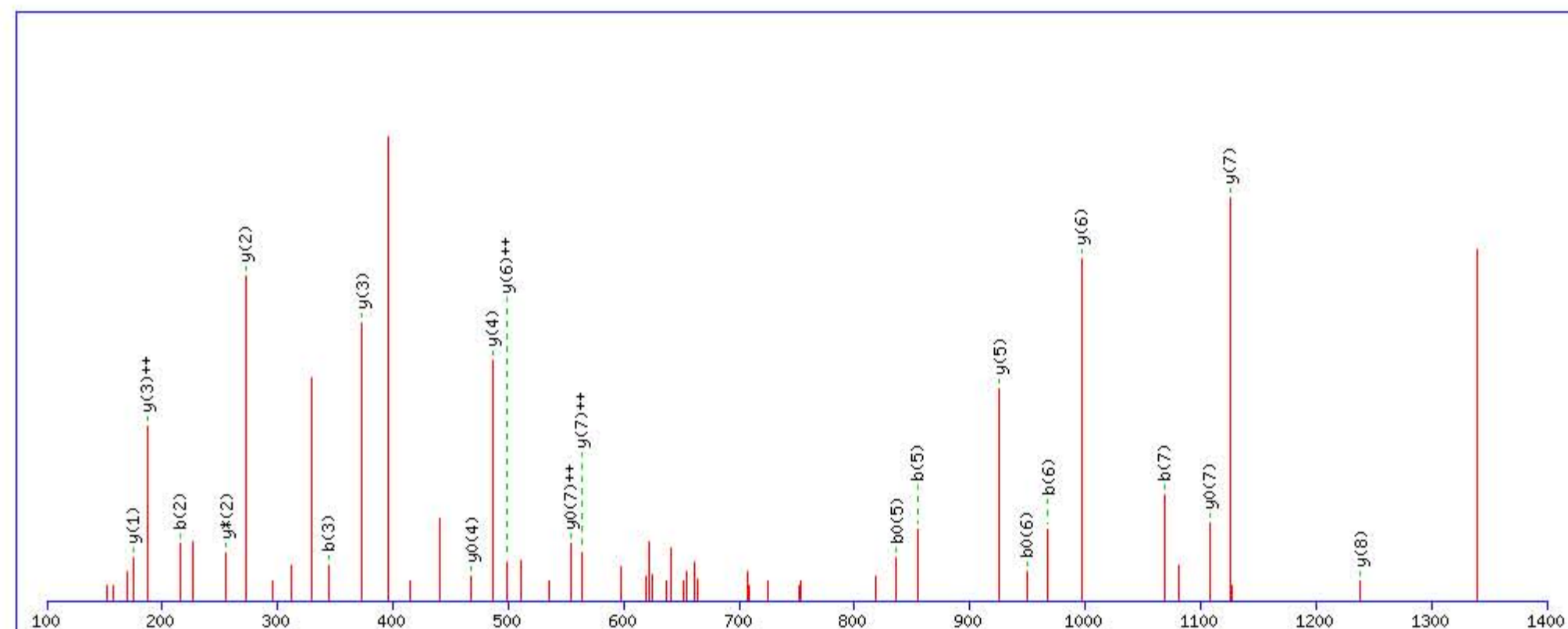
Title: Locus:1.1.1.3351.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1338.732941

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

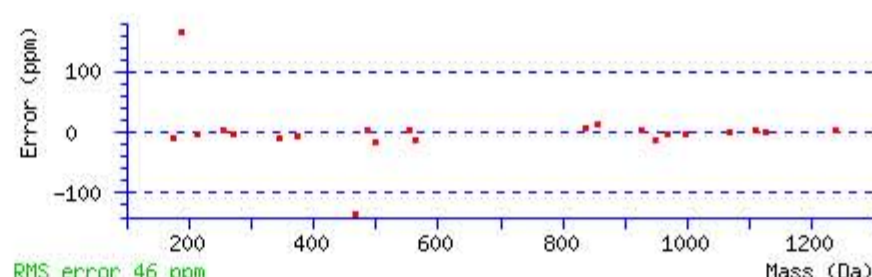
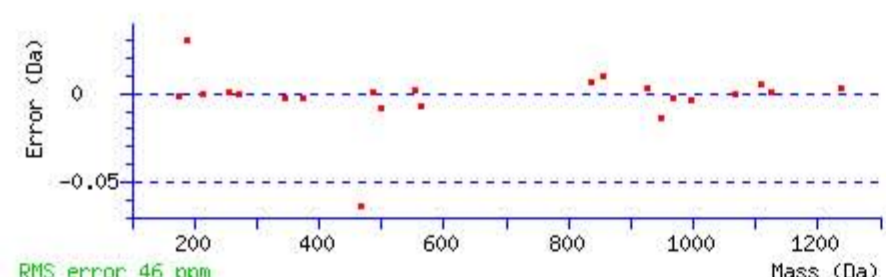
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 53 Expect: 8.8e-005

Matches : 22/84 fragment ions using 37 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							9
2	<b>215.139019</b>	108.073147			197.128454	99.067865	L	<b>1238.692556</b>	619.849916	1221.666007	611.336642	1220.681991	610.844633	8
3	<b>344.181612</b>	172.594444			326.171047	163.589162	E	<b>1125.608492</b>	<b>563.307884</b>	1108.581943	554.794610	<b>1107.597927</b>	<b>554.302602</b>	7
4	415.218726	208.113001			397.208161	199.107719	A	<b>996.565899</b>	<b>498.786588</b>	979.539350	490.273313	978.555334	489.781305	6
5	<b>854.444052</b>	427.725664	837.417503	419.212390	<b>836.433487</b>	418.720382	Q	<b>925.528785</b>	463.268031	908.502236	454.754756	907.518220	454.262748	5
6	<b>967.528116</b>	484.267696	950.501567	475.754422	<b>949.517551</b>	475.262414	L	<b>486.303459</b>	243.655367	469.276910	235.142093	<b>468.292894</b>	234.650085	4
7	<b>1068.575795</b>	534.791536	1051.549246	526.278261	1050.565230	525.786253	T	<b>373.219395</b>	<b>187.113335</b>	356.192846	178.600061	355.208830	178.108053	3
8	1165.628559	583.317918	1148.602010	574.804643	1147.617994	574.312635	P	<b>272.171716</b>	136.589496	<b>255.145167</b>	128.076221			2
9							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **TLEAQLTPR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
53.2	1338.732941	-0.010513	<a href="#">TLEAQLTPR</a>
10.4	1338.711639	0.010789	<a href="#">DVPQAEVGRGR</a>
9.9	1338.732956	-0.010528	<a href="#">VDLQSLPTR</a>
9.6	1338.725555	-0.003127	<a href="#">VDTVAEHLTRK</a>
5.4	1338.707809	0.014619	<a href="#">TLRPSLCPGGGK</a>
2.9	1338.715179	0.007249	<a href="#">QISTLAMHK</a>
0.3	1338.732941	-0.010513	<a href="#">TDRIYAMKVVK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SVNDLYIQK**

Found in **HEP2\_HUMAN**, Heparin cofactor 2 OS=Homo sapiens GN=SERPIND1 PE=1 SV=3

Match to Query 23260: 1389.727548 from(695.871050,2+) rtinseconds(1978) index(31697)

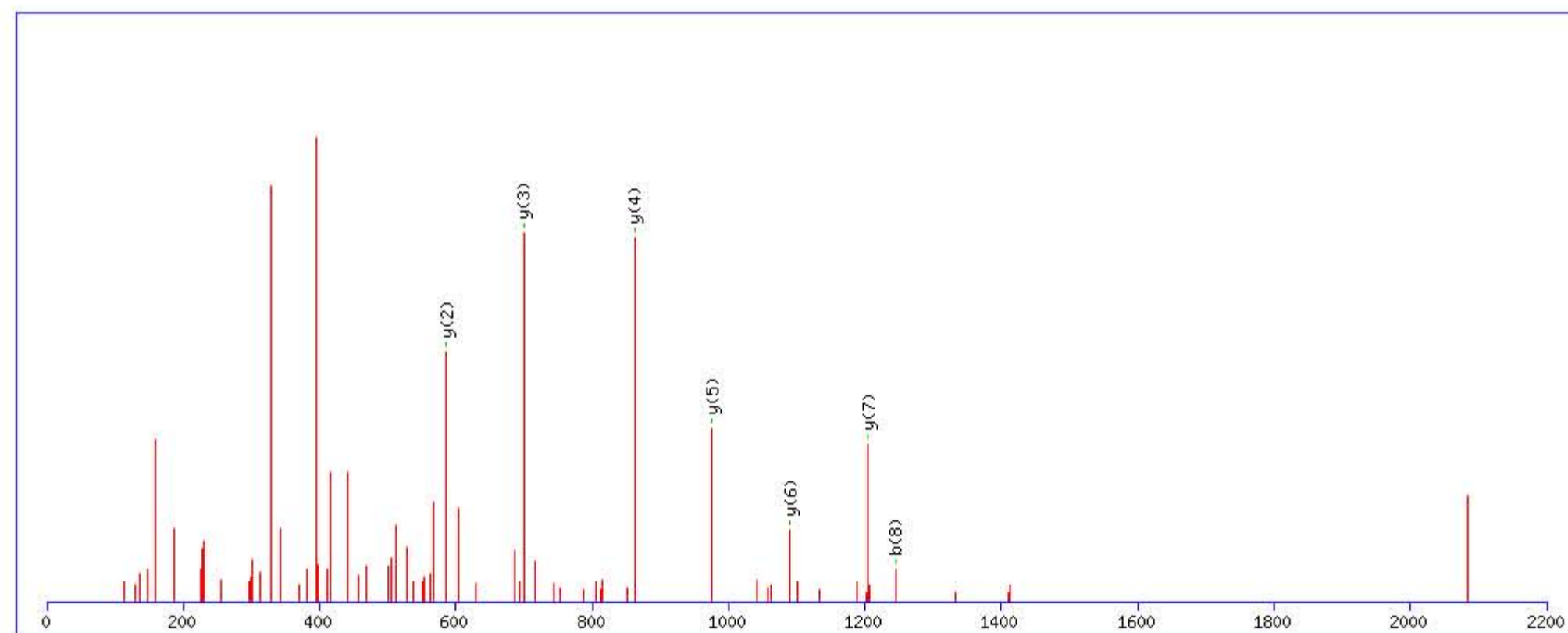
Title: Locus:1.1.1.3352.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1389.732605

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

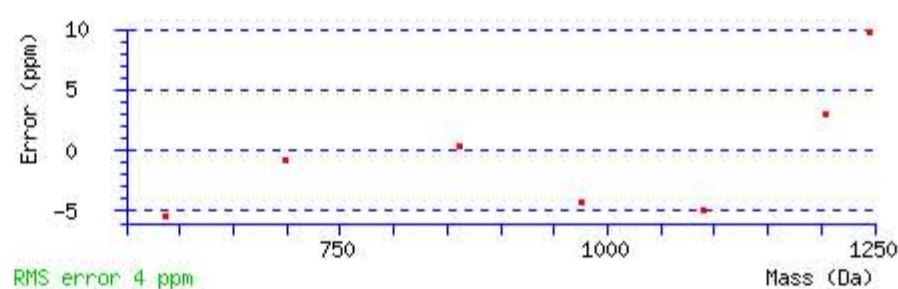
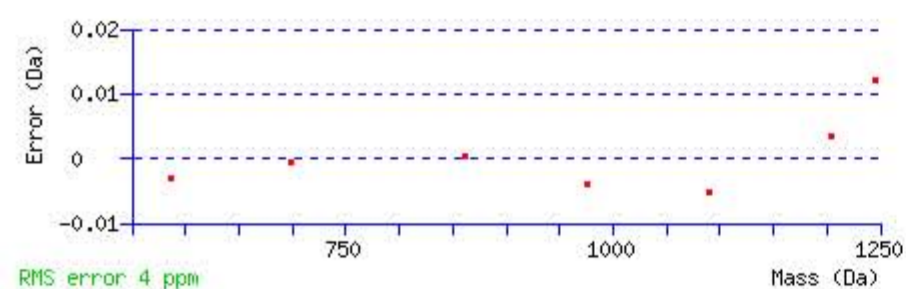
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 36 Expect: 0.00099

Matches : 7/82 fragment ions using 13 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							9
2	187.107718	94.057497			169.097153	85.052214	V	1303.707871	652.357573	1286.681322	643.844299	1285.697306	643.352291	8
3	301.150645	151.078960	284.124096	142.565686	283.140080	142.073678	N	<b>1204.639457</b>	602.823367	1187.612908	594.310092	1186.628892	593.818084	7
4	416.177588	208.592432	399.151039	200.079158	398.167023	199.587150	D	<b>1090.596530</b>	545.801903	1073.569981	537.288629	1072.585965	536.796621	6
5	529.261652	265.134464	512.235103	256.621190	511.251087	256.129182	L	<b>975.569587</b>	488.288432	958.543038	479.775157			5
6	692.324981	346.666129	675.298432	338.152854	674.314416	337.660846	Y	<b>862.485523</b>	431.746400	845.458974	423.233125			4
7	805.409045	403.208161	788.382496	394.694886	787.398480	394.202878	I	<b>699.422194</b>	350.214735	682.395645	341.701461			3
8	<b>1244.634371</b>	622.820823	1227.607822	614.307549	1226.623806	613.815541	Q	<b>586.338130</b>	293.672703	569.311581	285.159428			2
9							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **SVNDLYIQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
36.2	1389.732605	-0.005057	<a href="#">SVNDLYIQK</a>
3.9	1389.707458	0.020090	<a href="#">TKSMFQRITYK</a>
1.9	1389.735062	-0.007514	<a href="#">ISEAKEELKESK</a>
1.7	1389.746323	-0.018775	<a href="#">TAKATLEQDSAkk</a>
1.6	1389.713989	0.013559	<a href="#">LLPEPGPSDSPGPK</a>
0.6	1389.728577	-0.001029	<a href="#">NMLTESLVALQR</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GGETAQSADPQWEQLNKK**

Found in **HEP2\_HUMAN**, Heparin cofactor 2 OS=Homo sapiens GN=SERPIND1 PE=1 SV=3

Match to Query 44775: 2283.047412 from(762.023080,3+) rtinseconds(1944) index(31422)

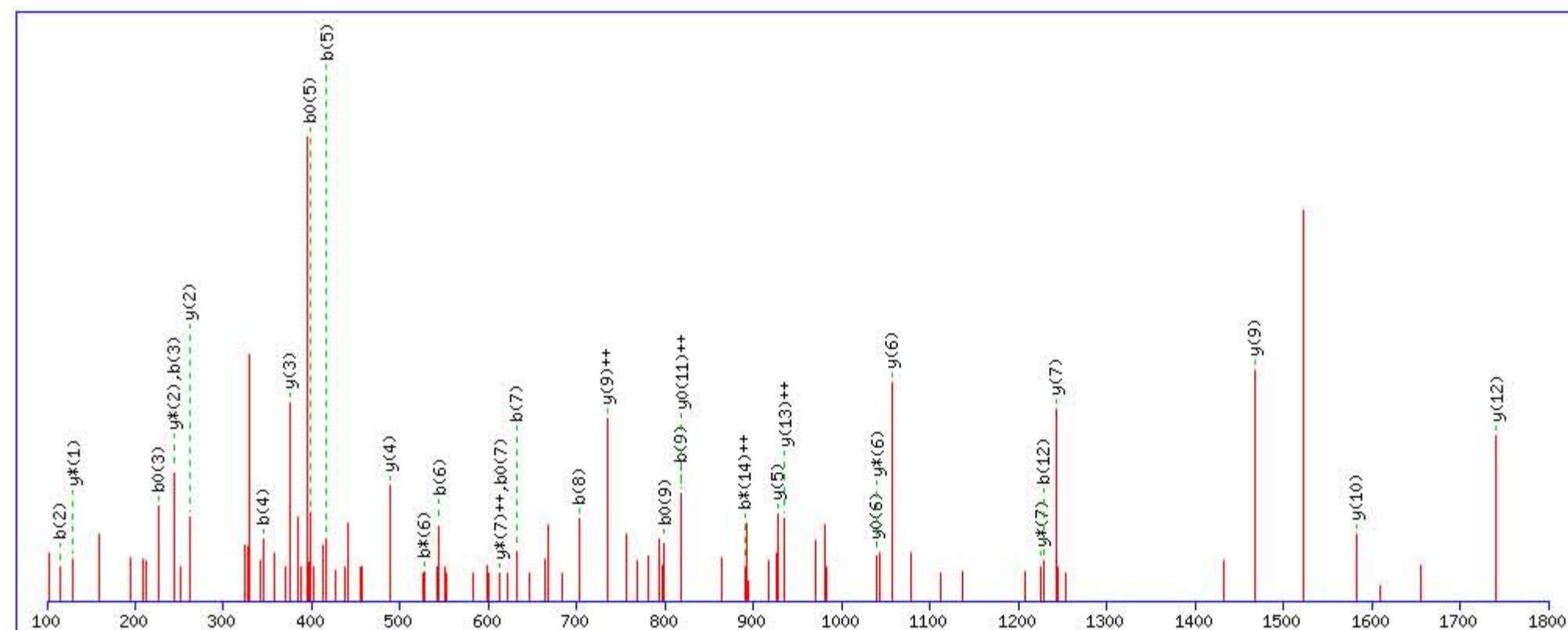
Title: Locus:1.1.1.3340.23 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

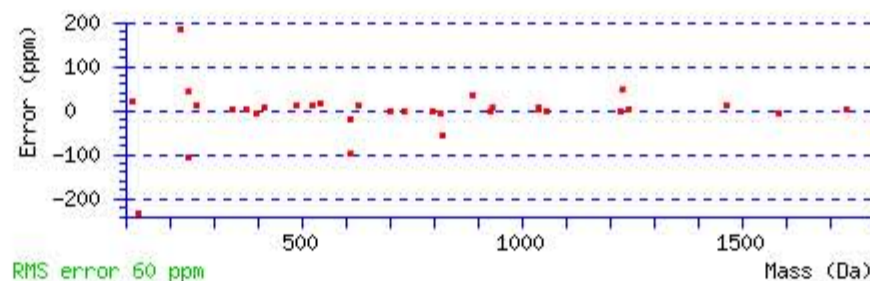
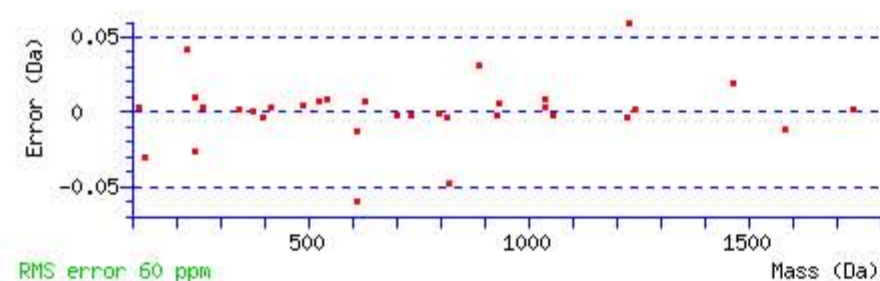
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2283.058975  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q14 : Biotin:Thermo-21345 (Q)  
 Ions Score: 43 Expect: 0.00052  
 Matches : 33/180 fragment ions using 75 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							18
2	<b>115.050204</b>	58.028740					G	2227.044809	1114.026042	2210.018260	1105.512768	2209.034244	1105.020760	17
3	<b>244.092797</b>	122.550037			<b>226.082232</b>	113.544754	E	2170.023345	1085.515310	2152.996796	1077.002036	2152.012780	1076.510028	16
4	<b>345.140476</b>	173.073876			327.129911	164.068594	T	2040.980752	1020.994014	2023.954203	1012.480740	2022.970187	1011.988732	15
5	<b>416.177590</b>	208.592433			<b>398.167025</b>	199.587151	A	1939.933073	970.470175	1922.906524	961.956900	1921.922508	961.464892	14
6	<b>544.236168</b>	272.621722	<b>527.209619</b>	264.108448	526.225603	263.616440	Q	1868.895959	<b>934.951618</b>	1851.869410	926.438343	1850.885394	925.946335	13
7	<b>631.268196</b>	316.137736	614.241647	307.624462	<b>613.257631</b>	307.132454	S	<b>1740.837381</b>	870.922329	1723.810832	862.409054	1722.826816	861.917046	12
8	<b>702.305310</b>	351.656293	685.278761	343.143019	684.294745	342.651011	A	1653.805353	827.406315	1636.778804	818.893040	1635.794788	<b>818.401032</b>	11
9	<b>817.332253</b>	409.169765	800.305704	400.656490	<b>799.321688</b>	400.164482	D	<b>1582.768239</b>	791.887758	1565.741690	783.374483	1564.757674	782.882475	10
10	914.385017	457.696147	897.358468	449.182872	896.374452	448.690864	P	<b>1467.741296</b>	<b>734.374286</b>	1450.714747	725.861012	1449.730731	725.369004	9
11	1042.443595	521.725436	1025.417046	513.212161	1024.433030	512.720153	Q	1370.688532	685.847904	1353.661983	677.334630	1352.677967	676.842622	8
12	<b>1228.522908</b>	614.765092	1211.496359	606.251818	1210.512343	605.759809	W	<b>1242.629954</b>	621.818615	<b>1225.603405</b>	<b>613.305341</b>	1224.619389	612.813333	7
13	1357.565501	679.286388	1340.538952	670.773114	1339.554936	670.281106	E	<b>1056.550641</b>	528.778959	<b>1039.524092</b>	520.265684	<b>1038.540076</b>	519.773676	6
14	1796.790827	898.899052	1779.764278	<b>890.385777</b>	1778.780262	889.893769	Q	<b>927.508048</b>	464.257662	910.481499	455.744388			5
15	1909.874891	955.441083	1892.848342	946.927809	1891.864326	946.435801	L	<b>488.282722</b>	244.644999	471.256173	236.131725			4
16	2023.917818	1012.462547	2006.891269	1003.949273	2005.907253	1003.457265	N	<b>375.198658</b>	188.102967	358.172109	179.589693			3
17	2137.960745	1069.484010	2120.934196	1060.970736	2119.950180	1060.478728	N	<b>261.155731</b>	131.081504	<b>244.129182</b>	122.568229			2
18							K	147.112804	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **GGETAQSADPQWEQLNKK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
43.3	2283.058975	-0.011563	<a href="#">GGETAQSADPQWEQLNKK</a>
20.9	2283.058975	-0.011563	<a href="#">GGETAQSADPQWEQLNKK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GGETAQSADPQWEQLNNK**

Found in **HEP2\_HUMAN**, Heparin cofactor 2 OS=Homo sapiens GN=SERPIND1 PE=1 SV=3

Match to Query 44777: 2283.055422 from(762.025750,3+) rtinseconds(1927) index(31288)

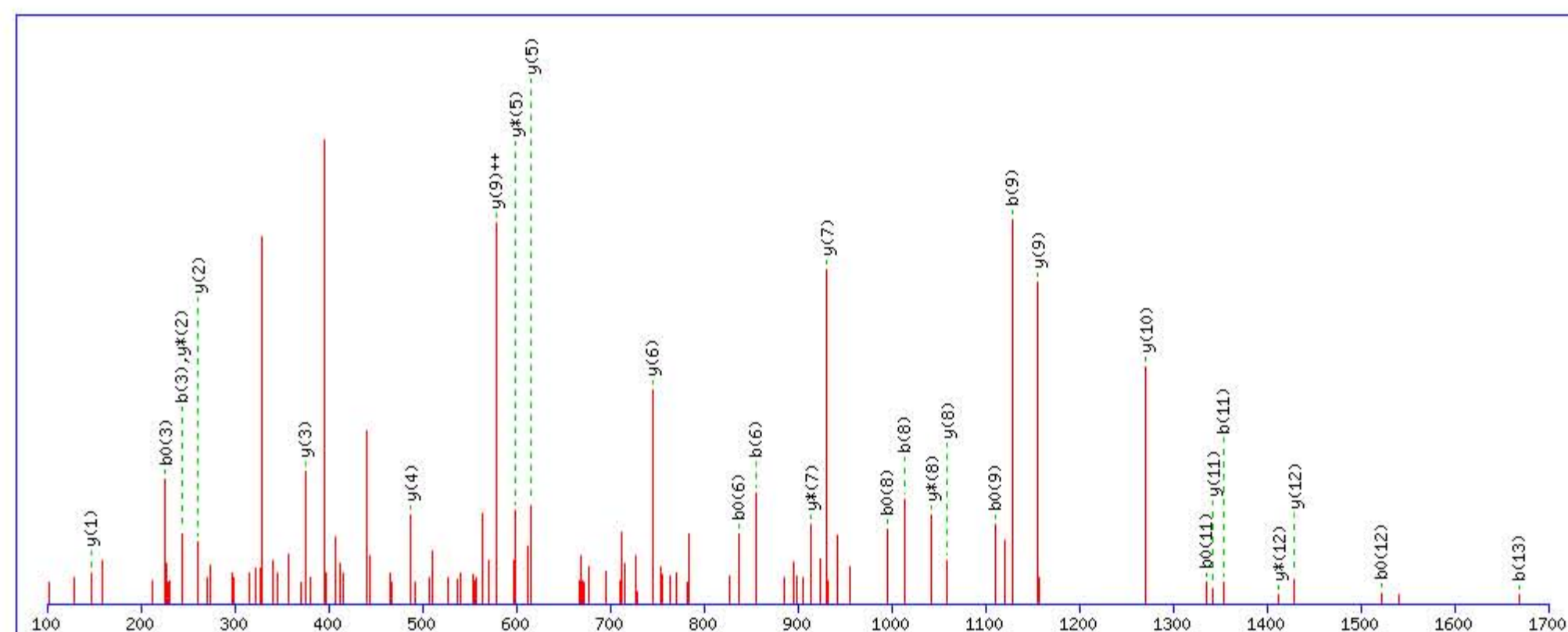
Title: Locus:1.1.1.3334.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2283.058975

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

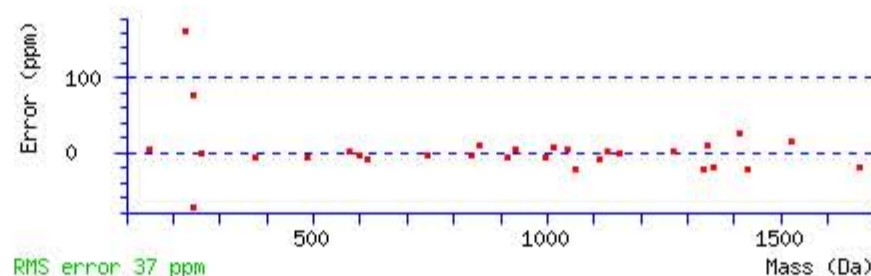
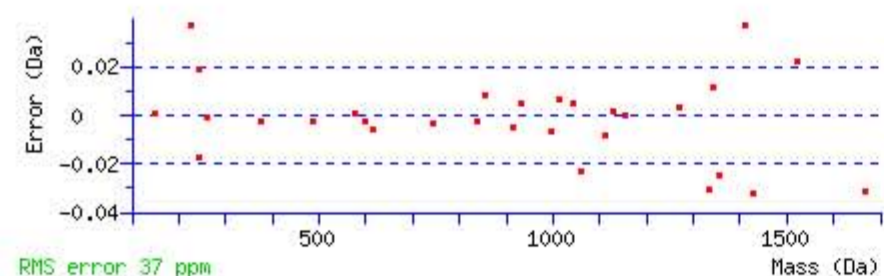
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 83 Expect: 5.9e-008

Matches : 30/180 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							18
2	115.050204	58.028740					G	2227.044809	1114.026042	2210.018260	1105.512768	2209.034244	1105.020760	17
3	<b>244.092797</b>	122.550037			<b>226.082232</b>	113.544754	E	2170.023345	1085.515310	2152.996796	1077.002036	2152.012780	1076.510028	16
4	345.140476	173.073876			327.129911	164.068594	T	2040.980752	1020.994014	2023.954203	1012.480740	2022.970187	1011.988732	15
5	416.177590	208.592433			398.167025	199.587151	A	1939.933073	970.470175	1922.906524	961.956900	1921.922508	961.464892	14
6	<b>855.402916</b>	428.205096	838.376367	419.691822	<b>837.392351</b>	419.199814	Q	1868.895959	934.951618	1851.869410	926.438343	1850.885394	925.946335	13
7	942.434944	471.721110	925.408395	463.207836	924.424379	462.715828	S	<b>1429.670633</b>	715.338955	<b>1412.644084</b>	706.825680	1411.660068	706.333672	12
8	<b>1013.472058</b>	507.239667	996.445509	498.726393	<b>995.461493</b>	498.234385	A	<b>1342.638605</b>	671.822941	1325.612056	663.309666	1324.628040	662.817658	11
9	<b>1128.499001</b>	564.753139	1111.472452	556.239864	<b>1110.488436</b>	555.747856	D	<b>1271.601491</b>	636.304384	1254.574942	627.791109	1253.590926	627.299101	10
10	1225.551765	613.279521	1208.525216	604.766246	1207.541200	604.274238	P	<b>1156.574548</b>	<b>578.790912</b>	1139.547999	570.277638	1138.563983	569.785630	9
11	<b>1353.610343</b>	677.308810	1336.583794	668.795535	<b>1335.599778</b>	668.303527	Q	<b>1059.521784</b>	530.264530	<b>1042.495235</b>	521.751256	1041.511219	521.259248	8
12	1539.689656	770.348466	1522.663107	761.835192	<b>1521.679091</b>	761.343184	W	<b>931.463206</b>	466.235241	<b>914.436657</b>	457.721967	913.452641	457.229959	7
13	<b>1668.732249</b>	834.869762	1651.705700	826.356488	1650.721684	825.864480	E	<b>745.383893</b>	373.195585	728.357344	364.682310	727.373328	364.190302	6
14	1796.790827	898.899052	1779.764278	890.385777	1778.780262	889.893769	Q	<b>616.341300</b>	308.674288	<b>599.314751</b>	300.161014			5
15	1909.874891	955.441083	1892.848342	946.927809	1891.864326	946.435801	L	<b>488.282722</b>	244.644999	471.256173	236.131725			4
16	2023.917818	1012.462547	2006.891269	1003.949273	2005.907253	1003.457265	N	<b>375.198658</b>	188.102967	358.172109	179.589693			3
17	2137.960745	1069.484010	2120.934196	1060.970736	2119.950180	1060.478728	N	<b>261.155731</b>	131.081504	<b>244.129182</b>	122.568229			2
18							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **GGETAQSADPQWEQLNNK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
83.2	2283.058975	-0.003553	<a href="#">GGETAQSADPQWEQLNNK</a>
18.6	2283.058975	-0.003553	<a href="#">GGETAQSADPQWEQLNNK</a>
0.6	2283.058975	-0.003553	<a href="#">GGETAQSADPQWEQLNNK</a>

# MASCOT Search Results

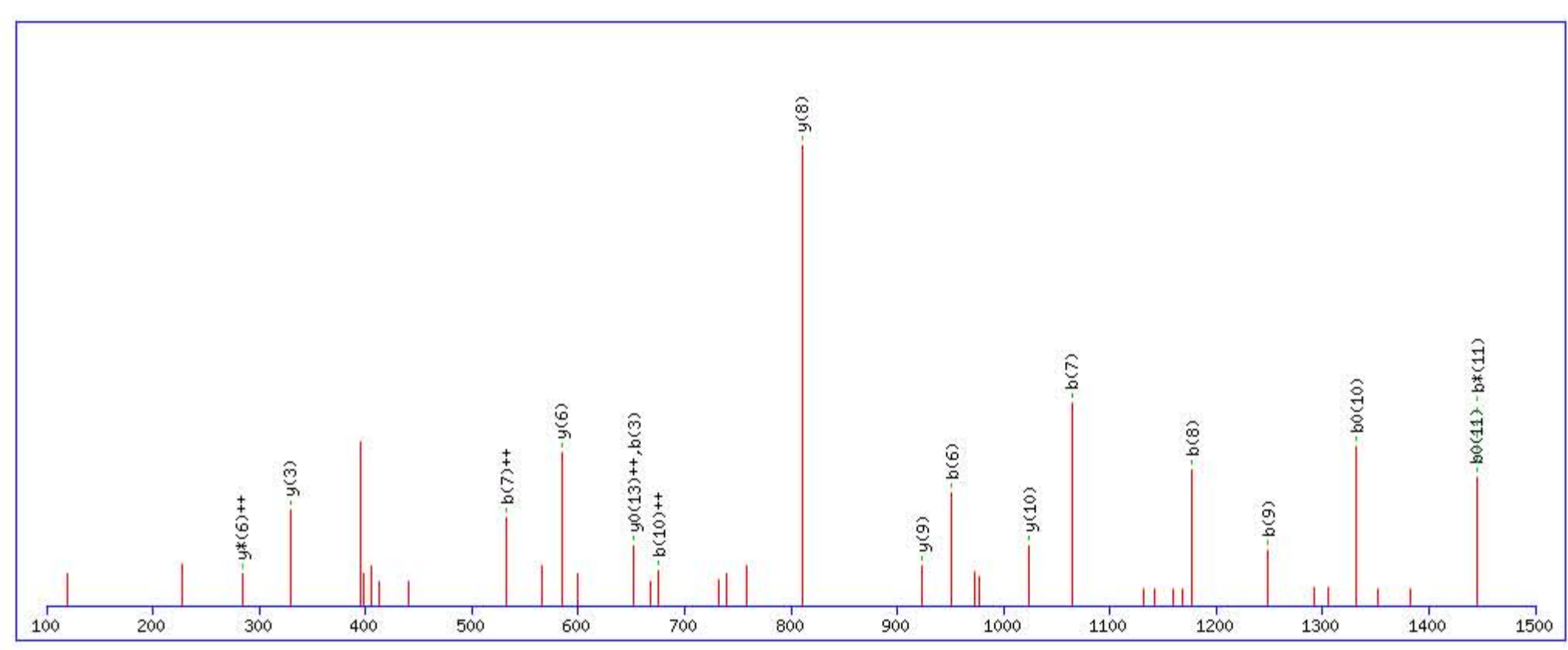
## Peptide View

MS/MS Fragmentation of **VQLSPDLLATLPEPASPGR**

Found in **HGFA\_HUMAN**, Hepatocyte growth factor activator OS=Homo sapiens GN=HGFA PE=1 SV=1

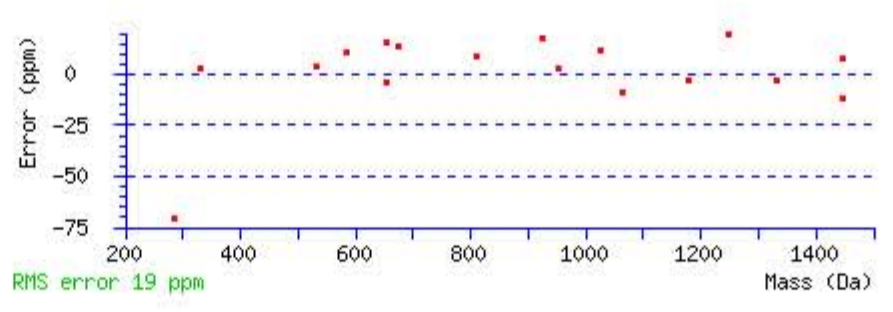
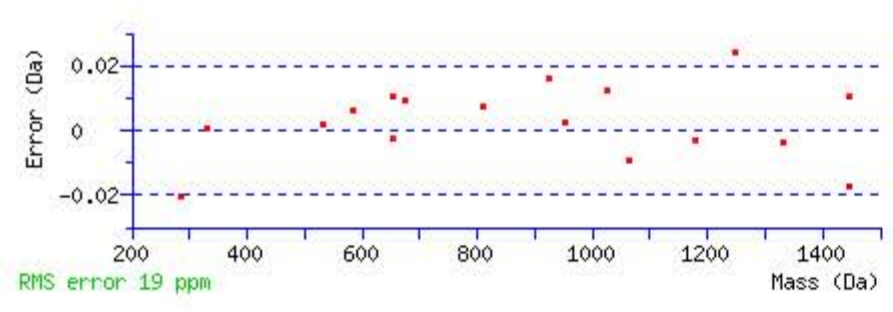
Match to Query 44546: 2271.231852 from(758.084560,3+) rtinseconds(2691) index(35753)  
 Title: Locus:1.1.1.3600.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2271.229675  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q2 : Biotin:Thermo-21345 (Q)  
 Ions Score: 39 Expect: 0.0023  
 Matches : 17/202 fragment ions using 24 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							19
2	539.301016	270.154146	522.274467	261.640872			Q	2173.168553	1087.087914	2156.142004	1078.574640	2155.157988	1078.082632	18
3	<b>652.385080</b>	326.696178	635.358531	318.182904			L	1733.943227	867.475252	1716.916678	858.961977	1715.932662	858.469969	17
4	739.417108	370.212192	722.390559	361.698918	721.406543	361.206910	S	1620.859163	810.933219	1603.832614	802.419945	1602.848598	801.927937	16
5	836.469872	418.738574	819.443323	410.225300	818.459307	409.733292	P	1533.827135	767.417206	1516.800586	758.903931	1515.816570	758.411923	15
6	<b>951.496815</b>	476.252046	934.470266	467.738771	933.486250	467.246763	D	1436.774371	718.890824	1419.747822	710.377549	1418.763806	709.885541	14
7	<b>1064.580879</b>	<b>532.794078</b>	1047.554330	524.280803	1046.570314	523.788795	L	1321.747428	661.377352	1304.720879	652.864078	1303.736863	<b>652.372069</b>	13
8	<b>1177.664943</b>	589.336110	1160.638394	580.822835	1159.654378	580.330827	L	1208.663364	604.835320	1191.636815	596.322046	1190.652799	595.830038	12
9	<b>1248.702057</b>	624.854667	1231.675508	616.341392	1230.691492	615.849384	A	1095.579300	548.293288	1078.552751	539.780014	1077.568735	539.288006	11
10	1349.749736	<b>675.378506</b>	1332.723187	666.865232	<b>1331.739171</b>	666.373223	T	<b>1024.542186</b>	512.774731	1007.515637	504.261456	1006.531621	503.769448	10
11	1462.833800	731.920538	<b>1445.807251</b>	723.407264	<b>1444.823235</b>	722.915255	L	<b>923.494507</b>	462.250892	906.467958	453.737617	905.483942	453.245609	9
12	1559.886564	780.446920	1542.860015	771.933646	1541.875999	771.441637	P	<b>810.410443</b>	405.708860	793.383894	397.195585	792.399878	396.703577	8
13	1688.929157	844.968216	1671.902608	836.454942	1670.918592	835.962934	E	713.357679	357.182478	696.331130	348.669203	695.347114	348.177195	7
14	1785.981921	893.494598	1768.955372	884.981324	1767.971356	884.489316	P	<b>584.315086</b>	292.661181	567.288537	<b>284.147907</b>	566.304521	283.655899	6
15	1857.019035	929.013155	1839.992486	920.499881	1839.008470	920.007873	A	487.262322	244.134799	470.235773	235.621525	469.251757	235.129517	5
16	1944.051063	972.529169	1927.024514	964.015895	1926.040498	963.523887	S	416.225208	208.616242	399.198659	200.102968	398.214643	199.610960	4
17	2041.103827	1021.055552	2024.077278	1012.542277	2023.093262	1012.050269	P	<b>329.193180</b>	165.100228	312.166631	156.586954			3
18	2098.125291	1049.566283	2081.098742	1041.053009	2080.114726	1040.561001	G	232.140416	116.573846	215.113867	108.060572			2
19							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VQLSPDLLATLPEPASPGR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
39.0	2271.229675	0.002177	<a href="#">VQLSPDLLATLPEPASPGR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **AAFCYQIR**

Found in **HGFL\_HUMAN**, Hepatocyte growth factor-like protein OS=Homo sapiens GN=MST1 PE=1 SV=2

Match to Query 21088: 1338.669708 from(670.342130,2+) rtinseconds(2035) index(60809)

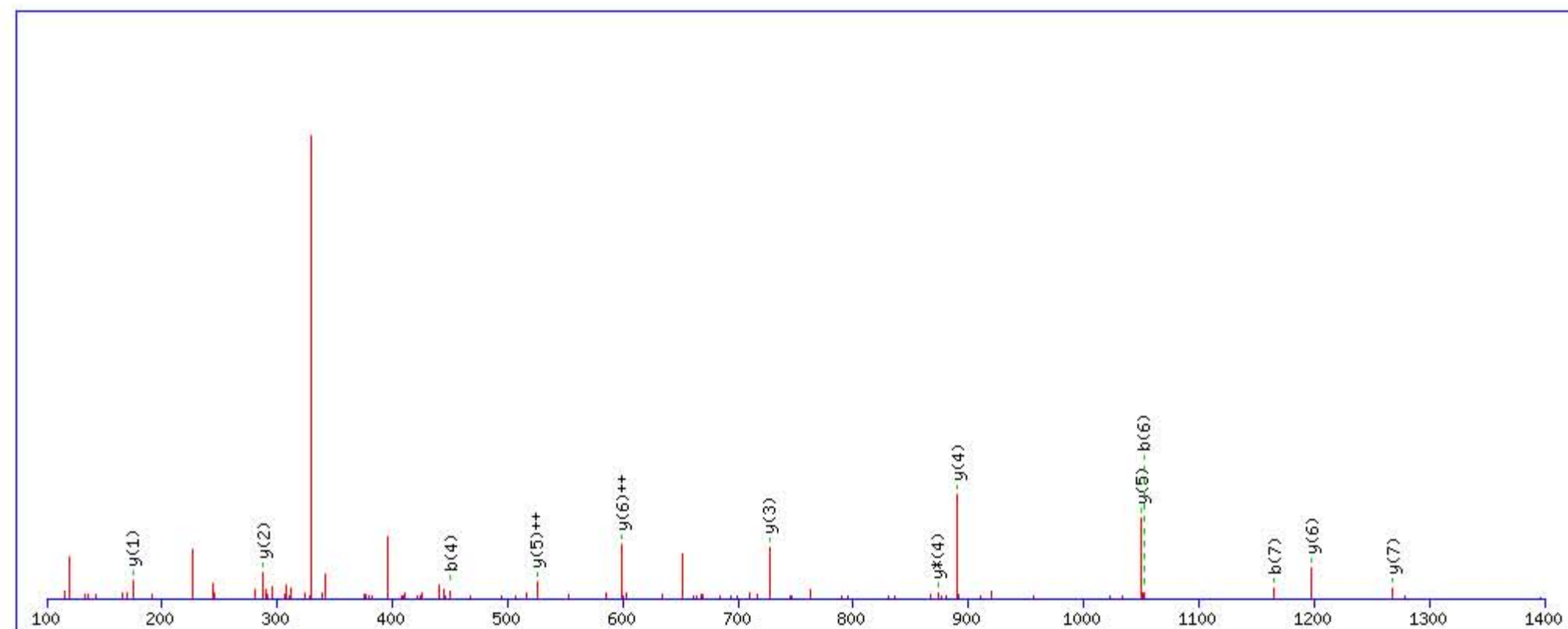
Title: Locus:1.1.1.1620.8 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1338.657669

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

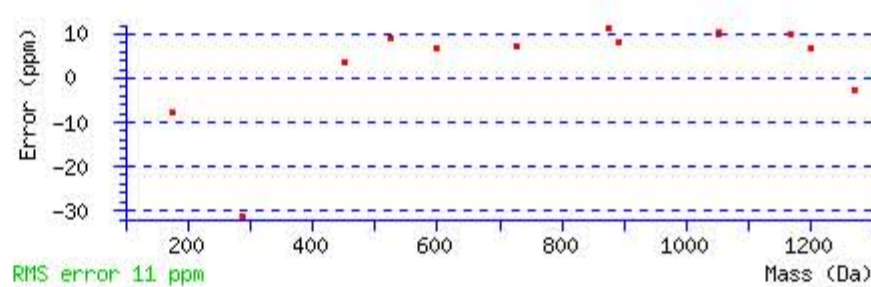
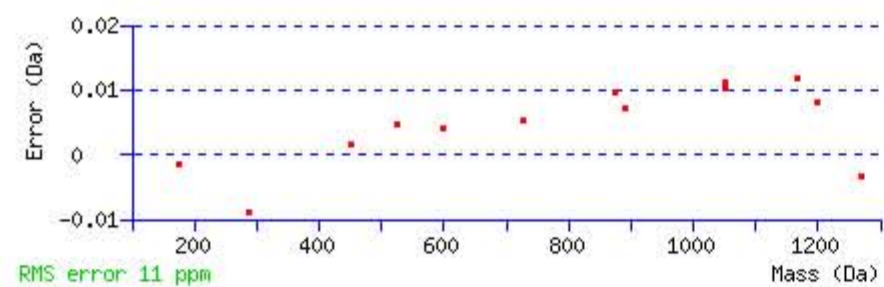
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.0049

Matches : 13/46 fragment ions using 35 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	#
1	72.044390	36.525833			A					8
2	143.081504	72.044390			A	<b>1268.627848</b>	634.817562	1251.601299	626.304288	7
3	290.149918	145.578597			F	<b>1197.590734</b>	<b>599.299005</b>	1180.564185	590.785731	6
4	<b>450.180567</b>	225.593922			C	<b>1050.522320</b>	<b>525.764798</b>	1033.495771	517.251524	5
5	613.243896	307.125586			Y	<b>890.491671</b>	445.749474	<b>873.465122</b>	437.236199	4
6	<b>1052.469222</b>	526.738249	1035.442673	518.224975	Q	<b>727.428342</b>	364.217809	710.401793	355.704534	3
7	<b>1165.553286</b>	583.280281	1148.526737	574.767007	I	<b>288.203016</b>	144.605146	271.176467	136.091871	2
8					R	<b>175.118952</b>	88.063114	158.092403	79.549839	1



NCBI BLAST search of [AAFCYQIR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
27.8	1338.657669	0.012039	<a href="#">AAFCYQIR</a>
2.1	1338.686661	-0.016953	<a href="#">QPQAWKDR</a>
1.2	1338.678802	-0.009094	<a href="#">ALAMGFQSMVIR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SPLNDFQVLR**

Found in **HGFL\_HUMAN**, Hepatocyte growth factor-like protein OS=Homo sapiens GN=MST1 PE=1 SV=2

Match to Query 27082: 1498.806248 from(750.410400,2+) rtinseconds(2388) index(62663)

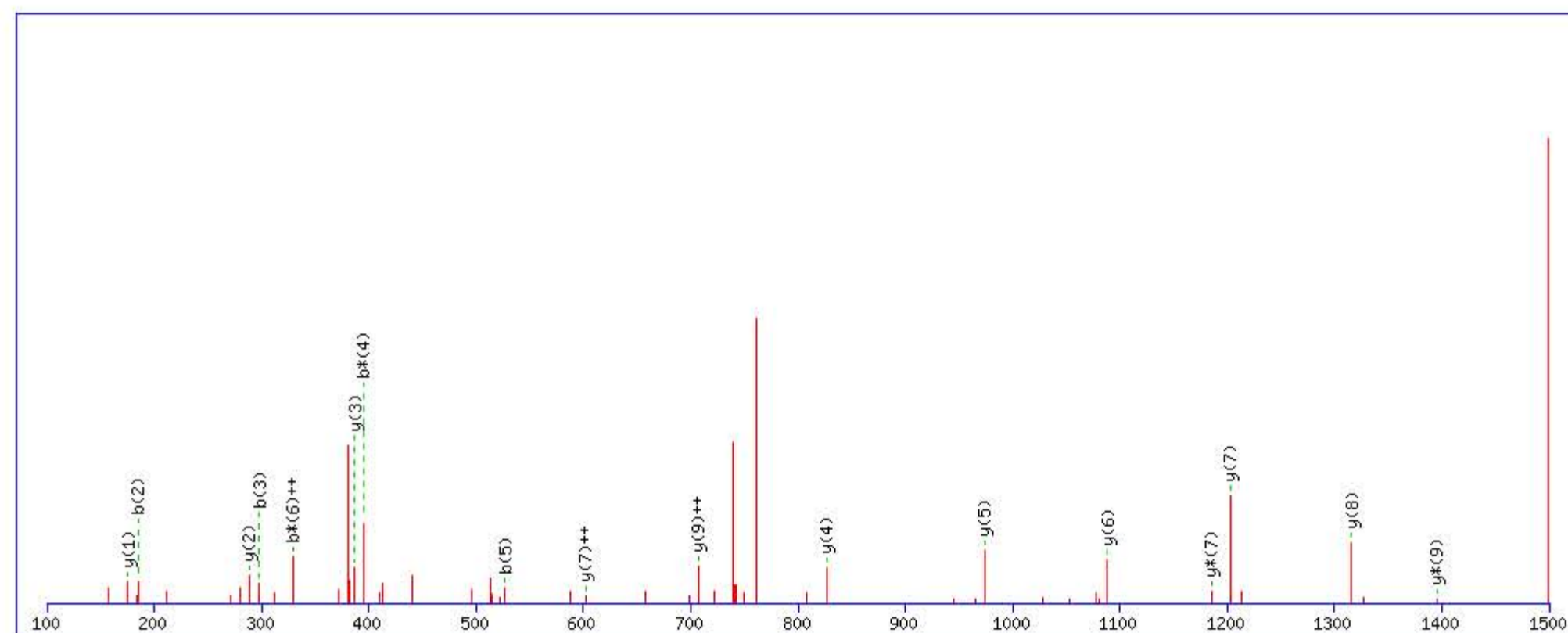
Title: Locus:1.1.1.1743.13 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1498.796616

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

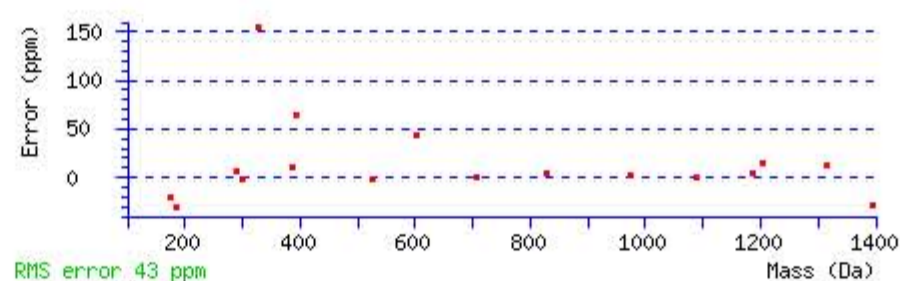
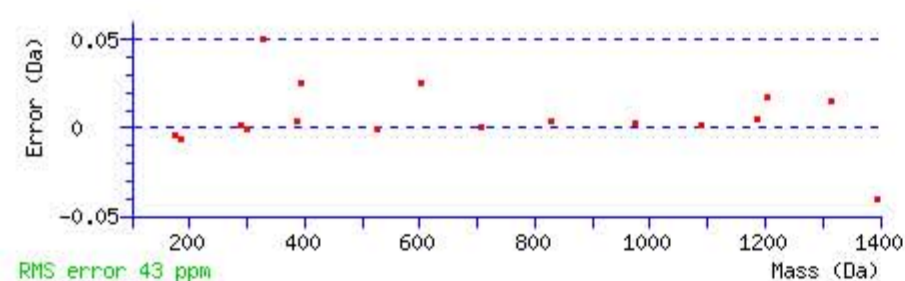
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 46 Expect: 0.00016

Matches : 17/92 fragment ions using 33 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							10
2	<b>185.092068</b>	93.049672			167.081503	84.044389	P	1412.771868	<b>706.889572</b>	<b>1395.745319</b>	698.376298	1394.761303	697.884290	9
3	<b>298.176132</b>	149.591704			280.165567	140.586422	L	<b>1315.719104</b>	658.363190	1298.692555	649.849916	1297.708539	649.357908	8
4	412.219059	206.613168	<b>395.192510</b>	198.099893	394.208494	197.607885	N	<b>1202.635040</b>	<b>601.821158</b>	<b>1185.608491</b>	593.307884	1184.624475	592.815876	7
5	<b>527.246002</b>	264.126639	510.219453	255.613365	509.235437	255.121357	D	<b>1088.592113</b>	544.799695	1071.565564	536.286420	1070.581548	535.794412	6
6	674.314416	337.660846	657.287867	<b>329.147572</b>	656.303851	328.655564	F	<b>973.565170</b>	487.286223	956.538621	478.772949			5
7	1113.539742	557.273509	1096.513193	548.760235	1095.529177	548.268227	Q	<b>826.496756</b>	413.752016	809.470207	405.238742			4
8	1212.608156	606.807716	1195.581607	598.294442	1194.597591	597.802434	V	<b>387.271430</b>	194.139353	370.244881	185.626078			3
9	1325.692220	663.349748	1308.665671	654.836474	1307.681655	654.344466	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
10							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SPLNDFQVLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
46.5	1498.796616	0.009632	<a href="#">SPLNDFQVLR</a>
5.7	1498.792572	0.013676	<a href="#">ALNITSLQMHS LR</a>
2.6	1498.817749	-0.011501	<a href="#">LQGLPIVAGTMDIR</a>
1.4	1498.787888	0.018360	<a href="#">ALSTTTSVDVSYKK</a>
1.3	1498.796585	0.009663	<a href="#">LSLPTRAWEPAMK</a>
1.1	1498.807846	-0.001598	<a href="#">ISGERVPQFR</a>
0.8	1498.799103	0.007145	<a href="#">ALLNLPGTQTSGEAK</a>
0.4	1498.799973	0.006275	<a href="#">ALLDQLMG TAR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QEATTVSCFR**

Found in **HGFL\_HUMAN**, Hepatocyte growth factor-like protein OS=Homo sapiens GN=MST1 PE=1 SV=2

Match to Query 27453: 1508.714808 from(755.364680,2+) rtinseconds(1766) index(59275)

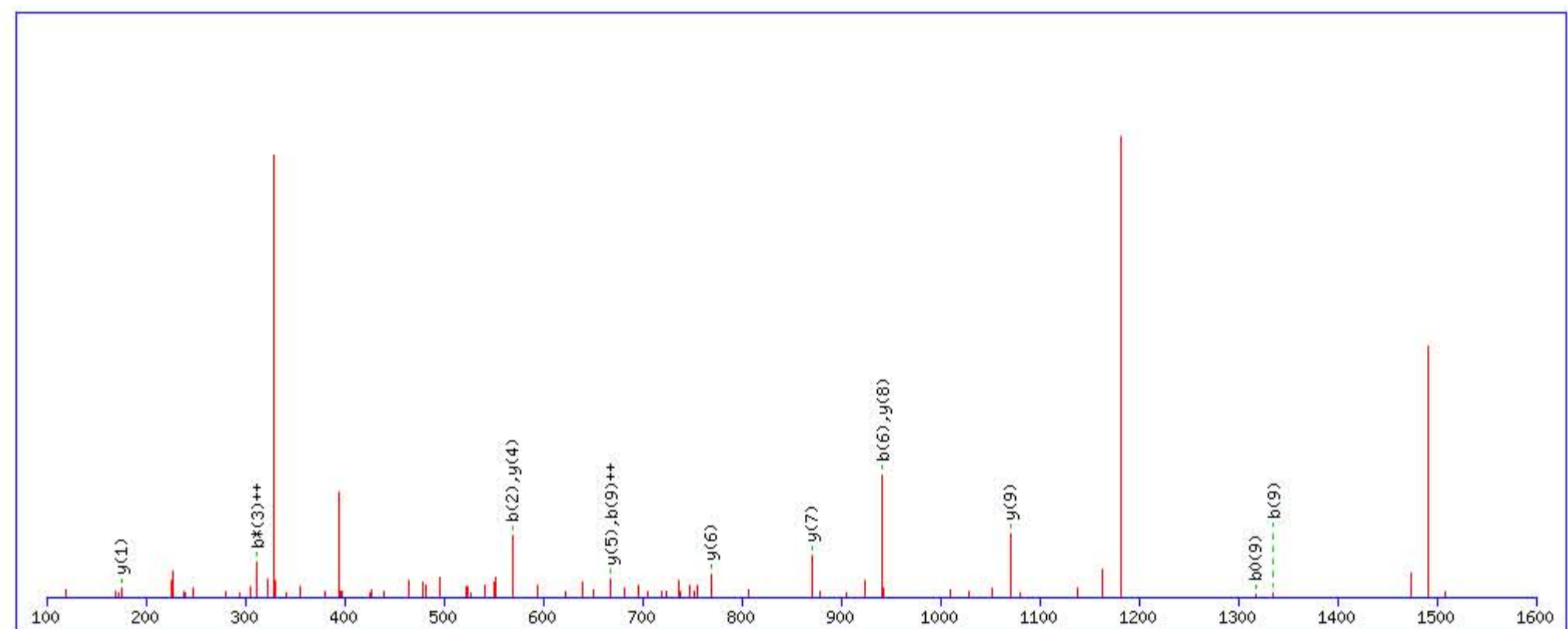
Title: Locus:1.1.1.1526.19 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1508.711578

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

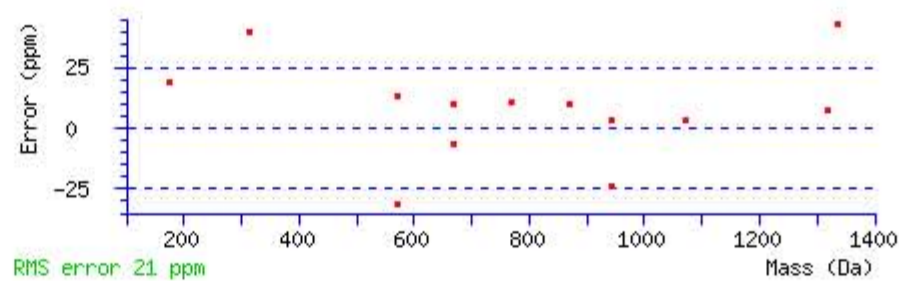
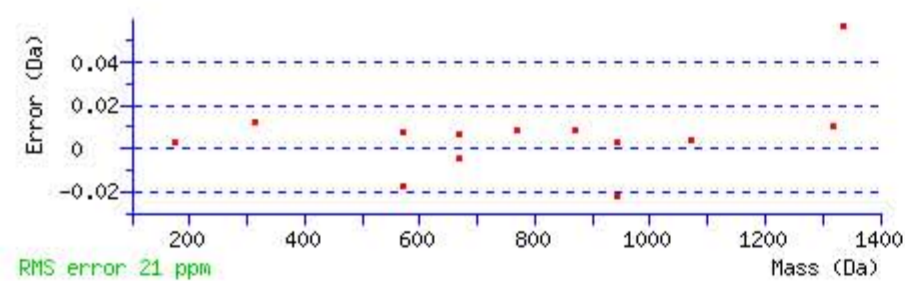
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 55 Expect: 5.4e-005

Matches : 13/100 fragment ions using 14 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							10
2	<b>569.275195</b>	285.141236	552.248646	276.627961	551.264630	276.135953	E	<b>1070.493522</b>	535.750399	1053.466973	527.237125	1052.482957	526.745117	9
3	640.312309	320.659793	623.285760	<b>312.146518</b>	622.301744	311.654510	A	<b>941.450929</b>	471.229103	924.424380	462.715828	923.440364	462.223820	8
4	741.359988	371.183632	724.333439	362.670358	723.349423	362.178350	T	<b>870.413815</b>	435.710546	853.387266	427.197271	852.403250	426.705263	7
5	842.407667	421.707472	825.381118	413.194197	824.397102	412.702189	T	<b>769.366136</b>	385.186706	752.339587	376.673432	751.355571	376.181424	6
6	<b>941.476081</b>	471.241679	924.449532	462.728404	923.465516	462.236396	V	<b>668.318457</b>	334.662867	651.291908	326.149592	650.307892	325.657584	5
7	1028.508109	514.757693	1011.481560	506.244418	1010.497544	505.752410	S	<b>569.250043</b>	285.128660	552.223494	276.615385	551.239478	276.123377	4
8	1188.538758	594.773017	1171.512209	586.259743	1170.528193	585.767735	C	482.218015	241.612646	465.191466	233.099371			3
9	<b>1335.607172</b>	<b>668.307224</b>	1318.580623	659.793950	<b>1317.596607</b>	659.301942	F	322.187366	161.597321	305.160817	153.084047			2
10							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **QEATTVSCFR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
55.0	1508.711578	0.003230	<a href="#">QEATTVSCFR</a>
9.8	1508.726624	-0.011816	<a href="#">RDGQLQRMNYGR</a>
6.7	1508.711380	0.003428	<a href="#">RTASGGRTAQMSR</a>
5.9	1508.708191	0.006617	<a href="#">EYGSMTVHLGPR</a>
3.7	1508.733154	-0.018346	<a href="#">APGSRLSSGGTNYSR</a>
2.9	1508.736710	-0.021902	<a href="#">LKSSQMEQFT</a>
2.0	1508.732681	-0.017873	<a href="#">KEAMKVSSQPCTK</a>
1.4	1508.711548	0.003260	<a href="#">QMSKYPSGER</a>
1.4	1508.715408	-0.000600	<a href="#">DHKSVDECKVHR</a>
1.4	1508.701660	0.013148	<a href="#">MGAAWQEPHR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **NPDGSERPWCYTTDPQIER**

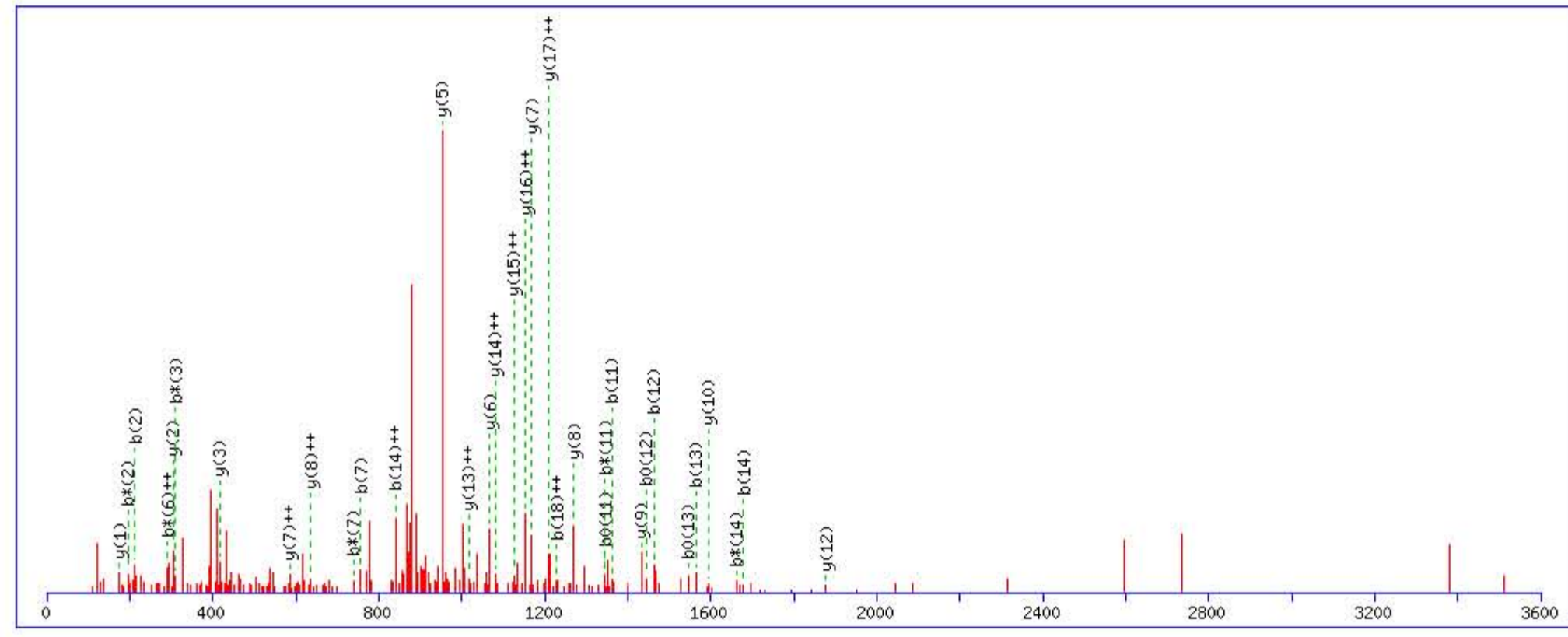
Found in **HGFL\_HUMAN**, Hepatocyte growth factor-like protein OS=Homo sapiens GN=MST1 PE=1 SV=2

Match to Query 49800: 2631.196632 from(878.072820,3+) rtinseconds(2034) index(60802)  
Title: Locus:1.1.1.1619.10 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

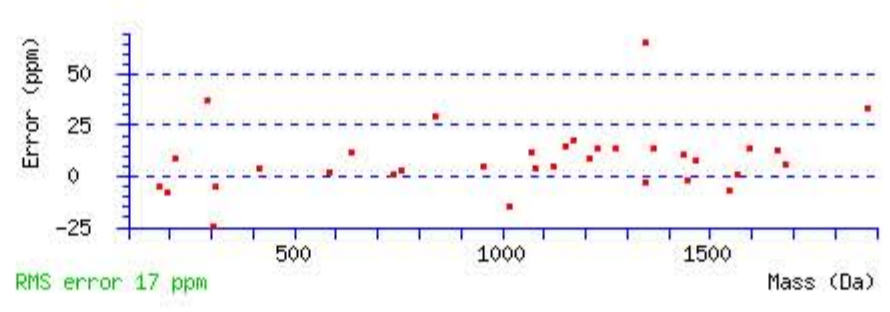
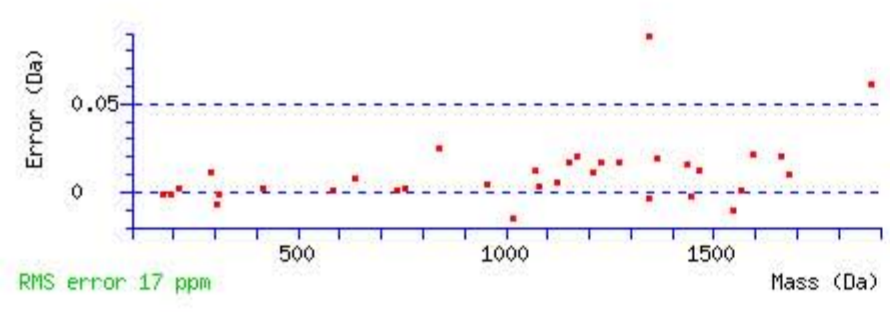
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2631.184601  
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
Variable modifications:  
Q16 : Biotin:Thermo-21345 (Q)  
Ions Score: 37 Expect: 0.0025  
Matches : 34/210 fragment ions using 90 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							19
2	<b>212.102967</b>	106.555121	<b>195.076418</b>	98.041847			P	2518.148958	1259.578117	2501.122409	1251.064842	2500.138393	1250.572834	18
3	327.129910	164.068593	<b>310.103361</b>	155.555319	309.119345	155.063311	D	2421.096194	<b>1211.051735</b>	2404.069645	1202.538460	2403.085629	1202.046452	17
4	384.151374	192.579325	367.124825	184.066050	366.140809	183.574042	G	2306.069251	<b>1153.538263</b>	2289.042702	1145.024989	2288.058686	1144.532981	16
5	471.183402	236.095339	454.156853	227.582064	453.172837	227.090056	S	2249.047787	<b>1125.027531</b>	2232.021238	1116.514257	2231.037222	1116.022249	15
6	600.225995	300.616636	583.199446	<b>292.103361</b>	582.215430	291.611353	E	2162.015759	<b>1081.511517</b>	2144.989210	1072.998243	2144.005194	1072.506235	14
7	<b>756.327106</b>	378.667191	<b>739.300557</b>	370.153916	738.316541	369.661908	R	2032.973166	<b>1016.990221</b>	2015.946617	1008.476947	2014.962601	1007.984939	13
8	853.379870	427.193573	836.353321	418.680298	835.369305	418.188290	P	<b>1876.872055</b>	938.939666	1859.845506	930.426391	1858.861490	929.934383	12
9	1039.459183	520.233229	1022.432634	511.719955	1021.448618	511.227947	W	1779.819291	890.413284	1762.792742	881.900009	1761.808726	881.408001	11
10	1199.489832	600.248554	1182.463283	591.735280	1181.479267	591.243271	C	<b>1593.739978</b>	797.373627	1576.713429	788.860353	1575.729413	788.368345	10
11	<b>1362.553161</b>	681.780219	<b>1345.526612</b>	673.266944	<b>1344.542596</b>	672.774936	Y	<b>1433.709329</b>	717.358303	1416.682780	708.845028	1415.698764	708.353020	9
12	<b>1463.600840</b>	732.304058	1446.574291	723.790784	<b>1445.590275</b>	723.298776	T	<b>1270.646000</b>	<b>635.826638</b>	1253.619451	627.313364	1252.635435	626.821356	8
13	<b>1564.648519</b>	782.827898	1547.621970	774.314623	<b>1546.637954</b>	773.822615	T	<b>1169.598321</b>	<b>585.302799</b>	1152.571772	576.789524	1151.587756	576.297516	7
14	<b>1679.675462</b>	<b>840.341369</b>	<b>1662.648913</b>	831.828095	1661.664897	831.336087	D	<b>1068.550642</b>	534.778959	1051.524093	526.265685	1050.540077	525.773677	6
15	1776.728226	888.867751	1759.701677	880.354477	1758.717661	879.862469	P	<b>953.523699</b>	477.265488	936.497150	468.752213	935.513134	468.260205	5
16	2215.953552	1108.480414	2198.927003	1099.967139	2197.942987	1099.475131	Q	856.470935	428.739106	839.444386	420.225831	838.460370	419.733823	4
17	2329.037616	1165.022446	2312.011067	1156.509171	2311.027051	1156.017163	I	<b>417.245609</b>	209.126443	400.219060	200.613168	399.235044	200.121160	3
18	2458.080209	<b>1229.543743</b>	2441.053660	1221.030468	2440.069644	1220.538460	E	<b>304.161545</b>	152.584411	287.134996	144.071136	286.150980	143.579128	2
19							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **NPDGSERPWCYTTDPQIER**  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
36.7	2631.184601	0.012031	<a href="#">NPDGSERPWCYTTDPQIER</a>

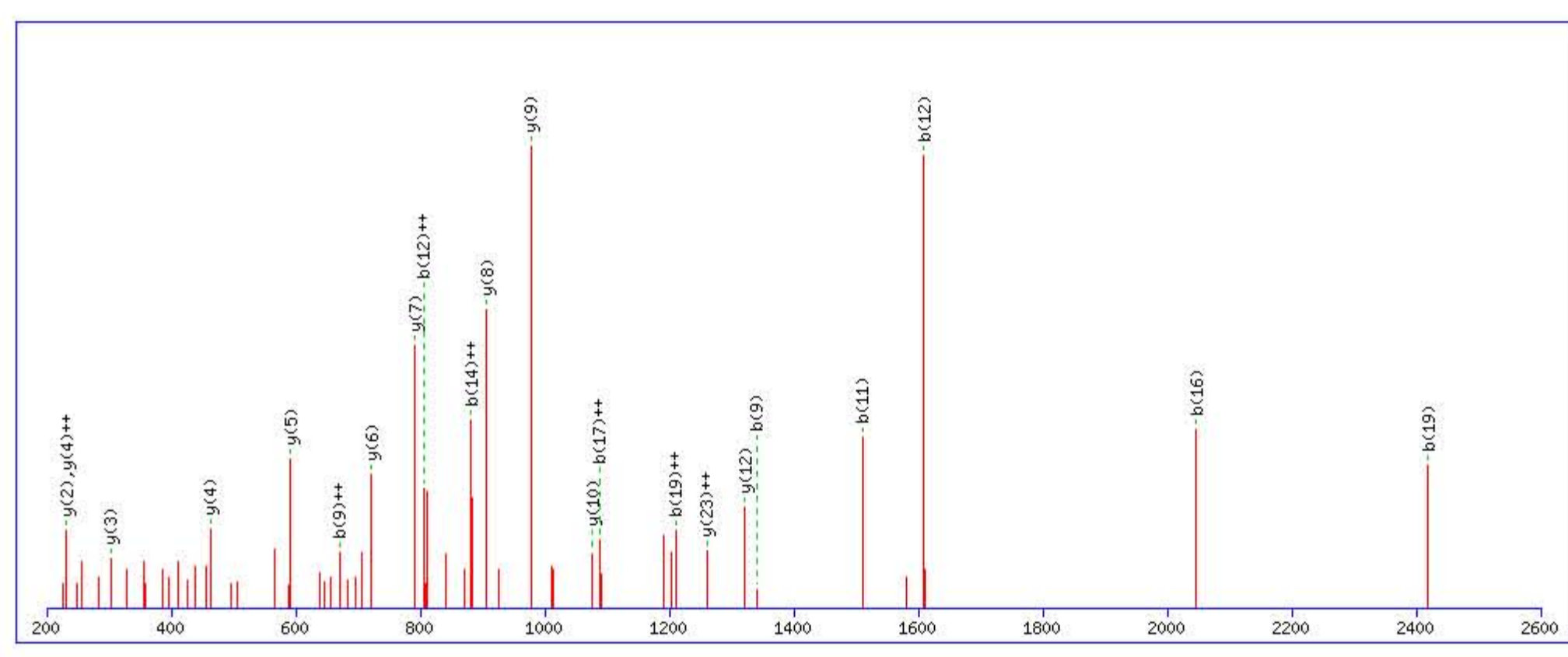
**MASCOT SEARCH RESULTS**

Peptide View

MS/MS Fragmentation of **GTELQHLLHAVVPGPWQEDVADAEECAGR**  
 Found in **HGFL\_HUMAN**, Hepatocyte growth factor-like protein OS=Homo sapiens GN=MST1 PE=1 SV=2

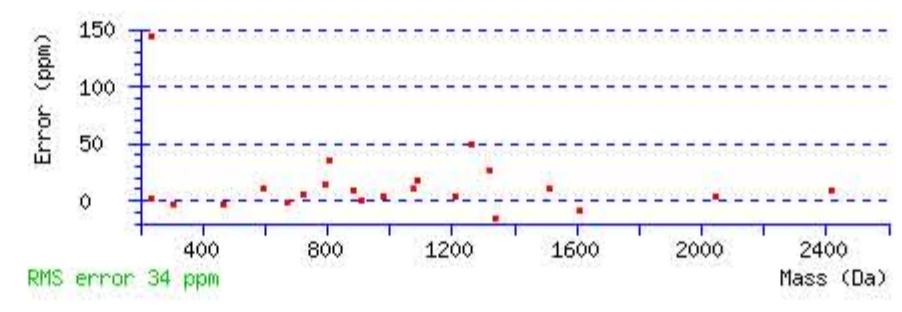
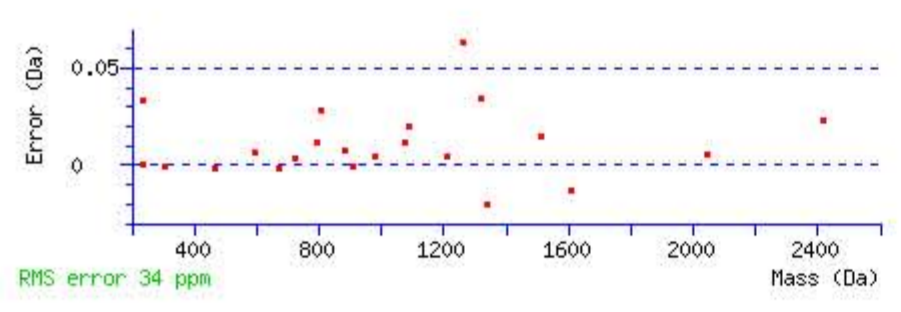
Match to Query 59523: 3494.699376 from(874.682120,4+) rtinseconds(2830) index(65484)  
 Title: Locus:1.1.1.1895.16 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from 200 to 2600 Da Full range  
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 3494.671112  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q5 : Biotin:Thermo-21345 (Q)  
 Ions Score: 65 Expect: 7e-006  
 Matches : 22/318 fragment ions using 28 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							29
2	159.076419	80.041847			141.065854	71.036565	T	3438.656925	1719.832100	3421.630376	1711.318826	3420.646360	1710.826818	28
3	288.119012	144.563144			270.108447	135.557862	E	3337.609246	1669.308261	3320.582697	1660.794986	3319.598681	1660.302978	27
4	401.203076	201.105176			383.192511	192.099894	L	3208.566653	1604.786964	3191.540104	1596.273690	3190.556088	1595.781682	26
5	840.428402	420.717839	823.401853	412.204565	822.417837	411.712557	Q	3095.482589	1548.244932	3078.456040	1539.731658	3077.472024	1539.239650	25
6	977.487314	489.247295	960.460765	480.734021	959.476749	480.242013	H	2656.257263	1328.632269	2639.230714	1320.118995	2638.246698	1319.626987	24
7	1090.571378	545.789327	1073.544829	537.276053	1072.560813	536.784045	L	2519.198351	<b>1260.102813</b>	2502.171802	1251.589539	2501.187786	1251.097531	23
8	1203.655442	602.331359	1186.628893	593.818085	1185.644877	593.326077	L	2406.114287	1203.560781	2389.087738	1195.047507	2388.103722	1194.555499	22
9	<b>1340.714354</b>	<b>670.860815</b>	1323.687805	662.347541	1322.703789	661.855532	H	2293.030223	1147.018749	2276.003674	1138.505475	2275.019658	1138.013467	21
10	1411.751468	706.379372	1394.724919	697.866098	1393.740903	697.374089	A	2155.971311	1078.489293	2138.944762	1069.976019	2137.960746	1069.484011	20
11	<b>1510.819882</b>	755.913579	1493.793333	747.400305	1492.809317	746.908297	V	2084.934197	1042.970736	2067.907648	1034.457462	2066.923632	1033.965454	19
12	<b>1609.888296</b>	<b>805.447786</b>	1592.861747	796.934512	1591.877731	796.442504	V	1985.865783	993.436530	1968.839234	984.923255	1967.855218	984.431247	18
13	1706.941060	853.974168	1689.914511	845.460894	1688.930495	844.968886	P	1886.797369	943.902323	1869.770820	935.389048	1868.786804	934.897040	17
14	1763.962524	<b>882.484900</b>	1746.935975	873.971626	1745.951959	873.479618	G	1789.744605	895.375941	1772.718056	886.862666	1771.734040	886.370658	16
15	1861.015288	931.011282	1843.988739	922.498008	1843.004723	922.006000	P	1732.723141	866.865209	1715.696592	858.351934	1714.712576	857.859926	15
16	<b>2047.094601</b>	1024.050939	2030.068052	1015.537664	2029.084036	1015.045656	W	1635.670377	818.338827	1618.643828	809.825552	1617.659812	809.333544	14
17	2175.153179	<b>1088.080227</b>	2158.126630	1079.566953	2157.142614	1079.074945	Q	1449.591064	725.299170	1432.564515	716.785896	1431.580499	716.293888	13
18	2304.195772	1152.601524	2287.169223	1144.088249	2286.185207	1143.596241	E	<b>1321.532486</b>	661.269881	1304.505937	652.756607	1303.521921	652.264599	12
19	<b>2419.222715</b>	<b>1210.114995</b>	2402.196166	1201.601721	2401.212150	1201.109713	D	1192.489893	596.748585	1175.463344	588.235310	1174.479328	587.743302	11
20	2518.291129	1259.649202	2501.264580	1251.135928	2500.280564	1250.643920	V	<b>1077.462950</b>	539.235113	1060.436401	530.721839	1059.452385	530.229831	10
21	2589.328243	1295.167759	2572.301694	1286.654485	2571.317678	1286.162477	A	<b>978.394536</b>	489.700906	961.367987	481.187632	960.383971	480.695624	9
22	2704.355186	1352.681231	2687.328637	1344.167956	2686.344621	1343.675948	D	<b>907.357422</b>	454.182349	890.330873	445.669075	889.346857	445.177067	8
23	2775.392300	1388.199788	2758.365751	1379.686513	2757.381735	1379.194505	A	<b>792.330479</b>	396.668878	775.303930	388.155603	774.319914	387.663595	7
24	2904.434893	1452.721085	2887.408344	1444.207810	2886.424328	1443.715802	E	<b>721.293365</b>	361.150321	704.266816	352.637046	703.282800	352.145038	6
25	3033.477486	1517.242381	3016.450937	1508.729106	3015.466921	1508.237099	E	<b>592.250772</b>	296.629024	575.224223	288.115750	574.240207	287.623742	5
26	3193.508135	1597.257705	3176.481586	1588.744431	3175.497570	1588.252423	C	<b>463.208179</b>	<b>232.107727</b>	446.181630	223.594453			4
27	3264.545249	1632.776263	3247.518700	1624.262988	3246.534684	1623.770980	A	<b>303.177530</b>	152.092403	286.150981	143.579129			3
28	3321.566713	1661.286995	3304.540164	1652.773720	3303.556148	1652.281712	G	<b>232.140416</b>	116.573846	215.113867	108.060571			2
29							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [GTELQHLLHAVVPGPWQEDVADAEECAGR](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
65.3	3494.671112	0.028264	<a href="#">GTELQHLLHAVVPGPWQEDVADAEECAGR</a>
42.5	3494.671112	0.028264	<a href="#">GTELQHLLHAVVPGPWQEDVADAEECAGR</a>



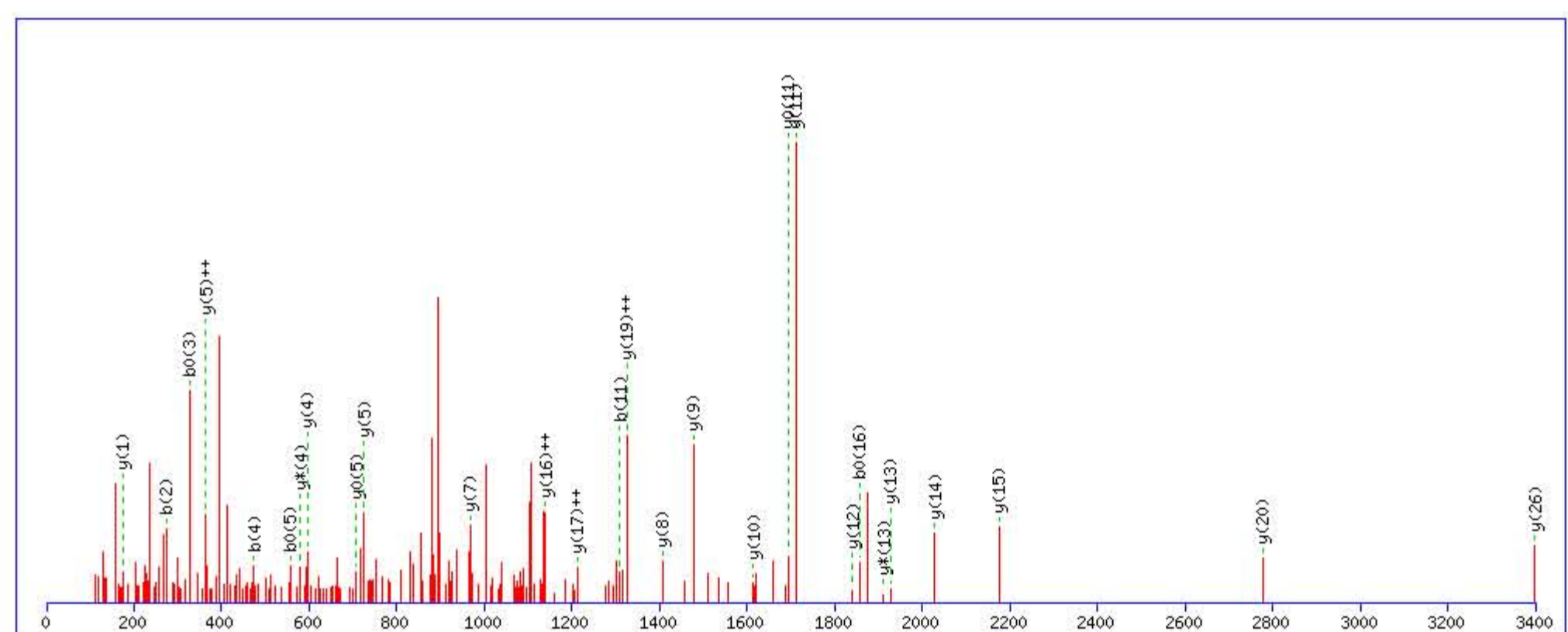
**MASCOT** Mascot Search Results

Peptide View

MS/MS Fragmentation of **WSAETPHKQQTFTSEPHAQLEENFCR**  
 Found in **HGFL\_HUMAN**, Hepatocyte growth factor-like protein OS=Homo sapiens GN=MST1 PE=1 SV=2

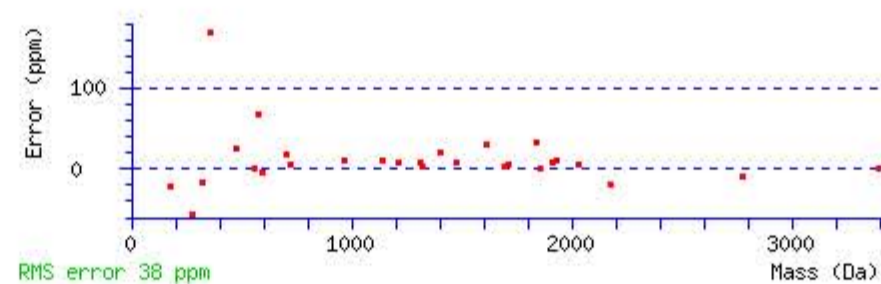
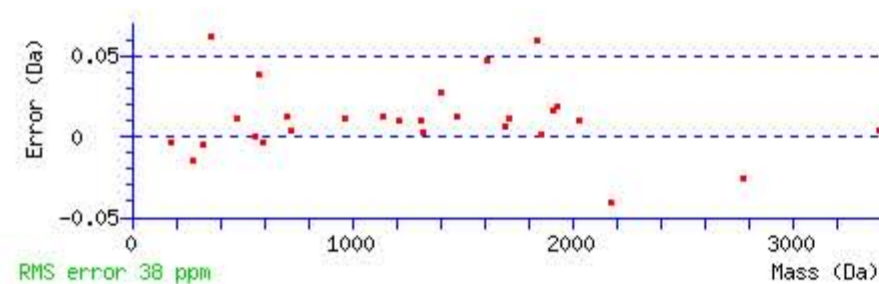
Match to Query 60354: 3584.680296 from(897.177350,4+) rtinseconds(2048) index(60855)  
 Title: Locus:1.1.1.1624.11 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from [0] to [3400] Da Full range  
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 3584.660538  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q20 : Biotin:Thermo-21345 (Q)  
 Ions Score: 46 Expect: 0.00042  
 Matches : 28/288 fragment ions using 75 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	187.086589	94.046932					W							27
2	<b>274.118617</b>	137.562947			256.108052	128.557664	S	<b>3399.588510</b>	1700.297893	3382.561961	1691.784618	3381.577945	1691.292610	26
3	345.155731	173.081504			<b>327.145166</b>	164.076221	A	3312.556482	1656.781879	3295.529933	1648.268605	3294.545917	1647.776597	25
4	<b>474.198324</b>	237.602800			456.187759	228.597518	E	3241.519368	1621.263322	3224.492819	1612.750047	3223.508803	1612.258040	24
5	575.246003	288.126640			<b>557.235438</b>	279.121357	T	3112.476775	1556.742026	3095.450226	1548.228751	3094.466210	1547.736743	23
6	672.298767	336.653022			654.288202	327.647739	P	3011.429096	1506.218186	2994.402547	1497.704912	2993.418531	1497.212904	22
7	809.357679	405.182478			791.347114	396.177195	H	2914.376332	1457.691804	2897.349783	1449.178530	2896.365767	1448.686522	21
8	937.452642	469.229959	920.426093	460.716685	919.442077	460.224677	K	<b>2777.317420</b>	1389.162348	2760.290871	1380.649074	2759.306855	1380.157066	20
9	1034.505406	517.756341	1017.478857	509.243067	1016.494841	508.751059	P	2649.222457	<b>1325.114867</b>	2632.195908	1316.601592	2631.211892	1316.109584	19
10	1162.563984	581.785630	1145.537435	573.272356	1144.553419	572.780348	Q	2552.169693	1276.588485	2535.143144	1268.075210	2534.159128	1267.583202	18
11	<b>1309.632398</b>	655.319837	1292.605849	646.806563	1291.621833	646.314555	F	2424.111115	<b>1212.559196</b>	2407.084566	1204.045921	2406.100550	1203.553913	17
12	1410.680077	705.843677	1393.653528	697.330402	1392.669512	696.838394	T	2277.042701	<b>1139.024988</b>	2260.016152	1130.511714	2259.032136	1130.019706	16
13	1557.748491	779.377884	1540.721942	770.864609	1539.737926	770.372601	F	<b>2175.995022</b>	1088.501149	2158.968473	1079.987874	2157.984457	1079.495866	15
14	1658.796170	829.901723	1641.769621	821.388449	1640.785605	820.896441	T	<b>2028.926608</b>	1014.966942	2011.900059	1006.453668	2010.916043	1005.961660	14
15	1745.828198	873.417737	1728.801649	864.904463	1727.817633	864.412455	S	<b>1927.878929</b>	964.443103	<b>1910.852380</b>	955.929828	1909.868364	955.437820	13
16	1874.870791	937.939034	1857.844242	929.425759	<b>1856.860226</b>	928.933751	E	<b>1840.846901</b>	920.927089	1823.820352	912.413814	1822.836336	911.921806	12
17	1971.923555	986.465416	1954.897006	977.952141	1953.912990	977.460133	P	<b>1711.804308</b>	856.405792	1694.777759	847.892518	<b>1693.793743</b>	847.400510	11
18	2108.982467	1054.994872	2091.955918	1046.481597	2090.971902	1045.989589	H	<b>1614.751544</b>	807.879410	1597.724995	799.366136	1596.740979	798.874128	10
19	2180.019581	1090.513429	2162.993032	1082.000154	2162.009016	1081.508146	A	<b>1477.692632</b>	739.349954	1460.666083	730.836680	1459.682067	730.344672	9
20	2619.244907	1310.126092	2602.218358	1301.612817	2601.234342	1301.120809	Q	<b>1406.655518</b>	703.831397	1389.628969	695.318123	1388.644953	694.826115	8
21	2732.328971	1366.668124	2715.302422	1358.154849	2714.318406	1357.662841	L	<b>967.430192</b>	484.218734	950.403643	475.705460	949.419627	475.213452	7
22	2861.371564	1431.189420	2844.345015	1422.676146	2843.360999	1422.184138	E	854.346128	427.676702	837.319579	419.163427	836.335563	418.671419	6
23	2990.414157	1495.710717	2973.387608	1487.197442	2972.403592	1486.705434	E	<b>725.303535</b>	<b>363.155405</b>	708.276986	354.642131	<b>707.292970</b>	354.150123	5
24	3104.457084	1552.732180	3087.430535	1544.218906	3086.446519	1543.726898	N	<b>596.260942</b>	298.634109	<b>579.234393</b>	290.120834			4
25	3251.525498	1626.266387	3234.498949	1617.753113	3233.514933	1617.261105	F	482.218015	241.612645	465.191466	233.099371			3
26	3411.556147	1706.281712	3394.529598	1697.768437	3393.545582	1697.276429	C	335.149601	168.078438	318.123052	159.565164			2
27							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **WSAETPHKQQTFTSEPHAQLEENFCR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
45.9	3584.660538	0.019758	<a href="#">WSAETPHKQQTFTSEPHAQLEENFCR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VVLGDQDLK**

Found in **HABP2\_HUMAN**, Hyaluronan-binding protein 2 OS=Homo sapiens GN=HABP2 PE=1 SV=1

Match to Query 20283: 1296.711088 from(649.362820,2+) rtinseconds(1992) index(46005)

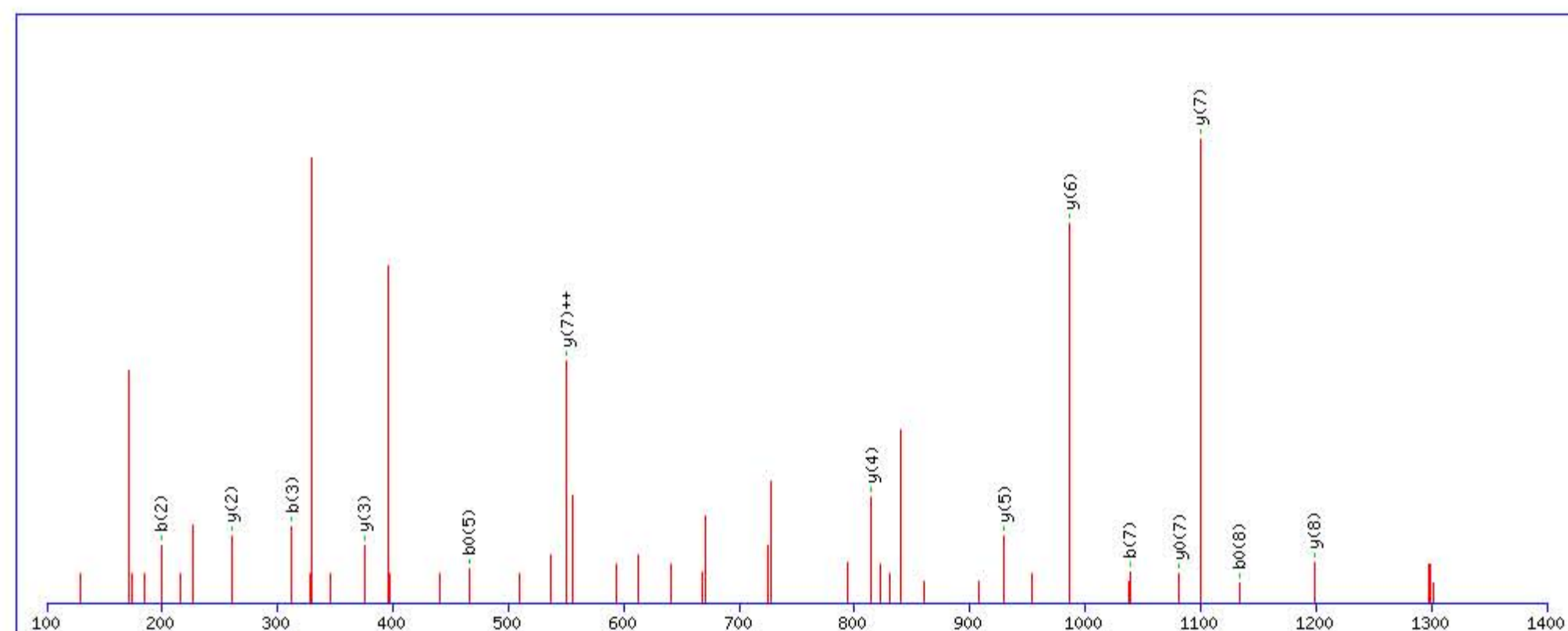
Title: Locus:1.1.1.3406.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1296.711166

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

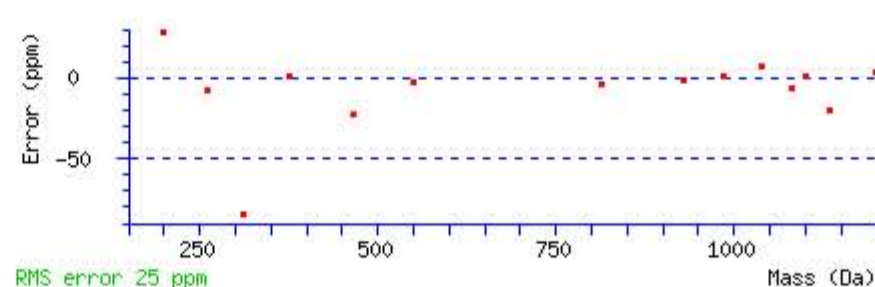
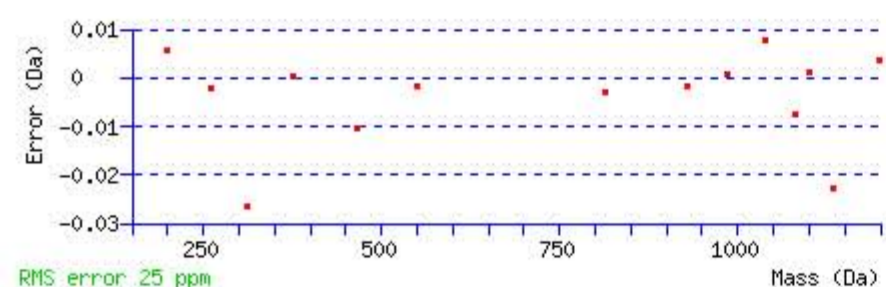
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.00092

Matches : 14/74 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							9
2	<b>199.144104</b>	100.075690					V	<b>1198.650022</b>	599.828649	1181.623473	591.315374	1180.639457	590.823366	8
3	<b>312.228168</b>	156.617722					L	<b>1099.581608</b>	<b>550.294442</b>	1082.555059	541.781168	<b>1081.571043</b>	541.289159	7
4	369.249632	185.128454					G	<b>986.497544</b>	493.752410	969.470995	485.239135	968.486979	484.747127	6
5	484.276575	242.641925			<b>466.266010</b>	233.636643	D	<b>929.476080</b>	465.241678	912.449531	456.728403	911.465515	456.236395	5
6	923.501901	462.254589	906.475352	453.741314	905.491336	453.249306	Q	<b>814.449137</b>	407.728206	797.422588	399.214932	796.438572	398.722924	4
7	<b>1038.528844</b>	519.768060	1021.502295	511.254785	1020.518279	510.762777	D	<b>375.223811</b>	188.115543	358.197262	179.602269	357.213246	179.110261	3
8	1151.612908	576.310092	1134.586359	567.796817	<b>1133.602343</b>	567.304809	L	<b>260.196868</b>	130.602072	243.170319	122.088797			2
9							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VVLGDQDLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
33.5	1296.711166	-0.000078	<a href="#">VVLGDQDLK</a>
1.0	1296.692520	0.018568	<a href="#">EVDATNLPPTLK</a>
0.1	1296.719025	-0.007937	<a href="#">VVSIHQDPKFK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **FTCACPDQFK**

Found in **HABP2\_HUMAN**, Hyaluronan-binding protein 2 OS=Homo sapiens GN=HABP2 PE=1 SV=1

Match to Query 29876: 1583.693808 from(792.854180,2+) rtinseconds(1891) index(45236)

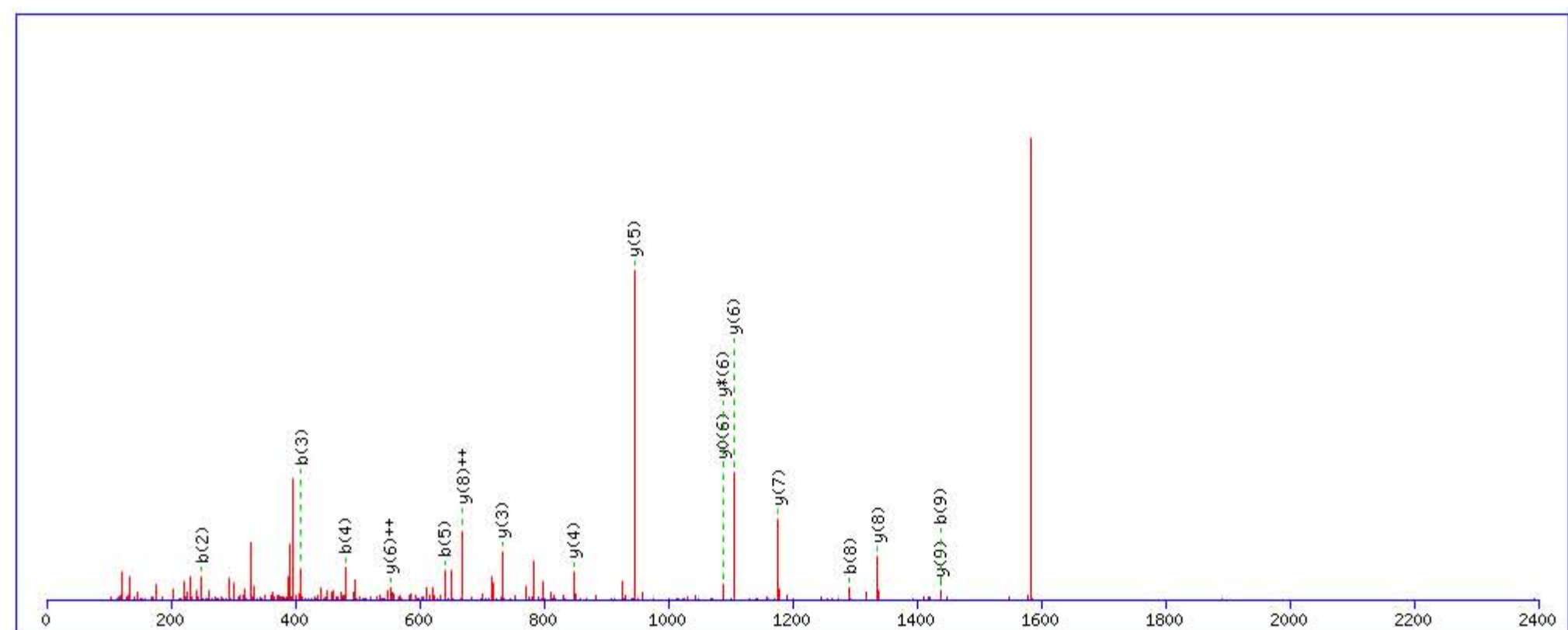
Title: Locus:1.1.1.3371.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1583.693497

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

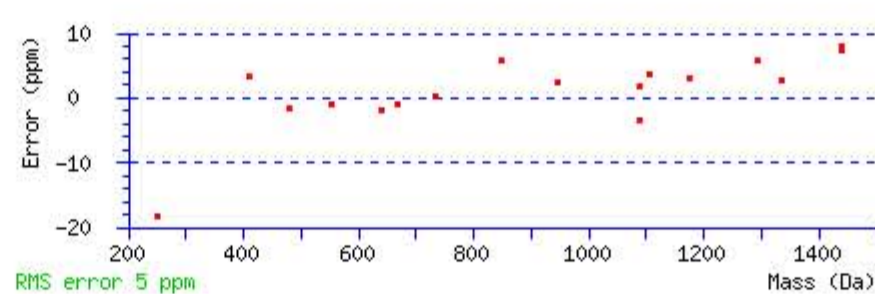
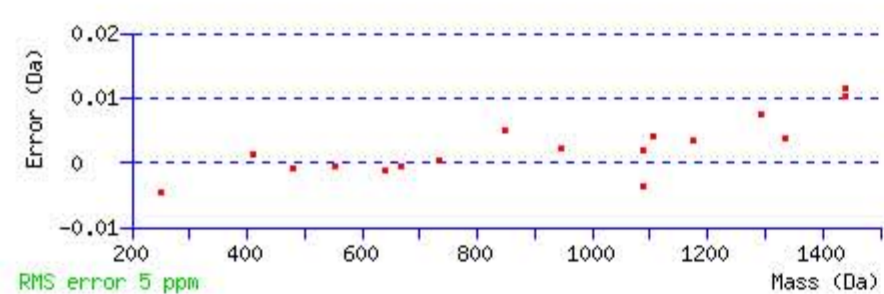
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 48 Expect: 5.1e-005

Matches : 17/86 fragment ions using 30 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							10
2	<b>249.123369</b>	125.065322			231.112804	116.060040	T	<b>1437.632342</b>	719.319809	1420.605793	710.806535	1419.621777	710.314527	9
3	<b>409.154018</b>	205.080647			391.143453	196.075365	C	<b>1336.584663</b>	<b>668.795970</b>	1319.558114	660.282695	1318.574098	659.790687	8
4	<b>480.191132</b>	240.599204			462.180567	231.593921	A	<b>1176.554014</b>	588.780645	1159.527465	580.267371	1158.543449	579.775363	7
5	<b>640.221781</b>	320.614529			622.211216	311.609246	C	<b>1105.516900</b>	<b>553.262088</b>	<b>1088.490351</b>	544.748814	<b>1087.506335</b>	544.256806	6
6	737.274545	369.140911			719.263980	360.135628	P	<b>945.486251</b>	473.246764	928.459702	464.733489	927.475686	464.241481	5
7	852.301488	426.654382			834.290923	417.649100	D	<b>848.433487</b>	424.720382	831.406938	416.207107	830.422922	415.715099	4
8	<b>1291.526814</b>	646.267045	1274.500265	637.753771	1273.516249	637.261763	Q	<b>733.406544</b>	367.206910	716.379995	358.693636			3
9	<b>1438.595228</b>	719.801252	1421.568679	711.287978	1420.584663	710.795970	F	294.181218	147.594247	277.154669	139.080973			2
10							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **FTCACPDQFK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
47.5	1583.693497	0.000311	<a href="#">FTCACPDQFK</a>
1.8	1583.700470	-0.006662	<a href="#">FGEYHKDDPSSFR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **KEEFHEQSFR**

Found in **HABP2\_HUMAN**, Hyaluronan-binding protein 2 OS=Homo sapiens GN=HABP2 PE=1 SV=1

Match to Query 32617: 1646.782722 from(549.934850,3+) rtinseconds(1569) index(43295)

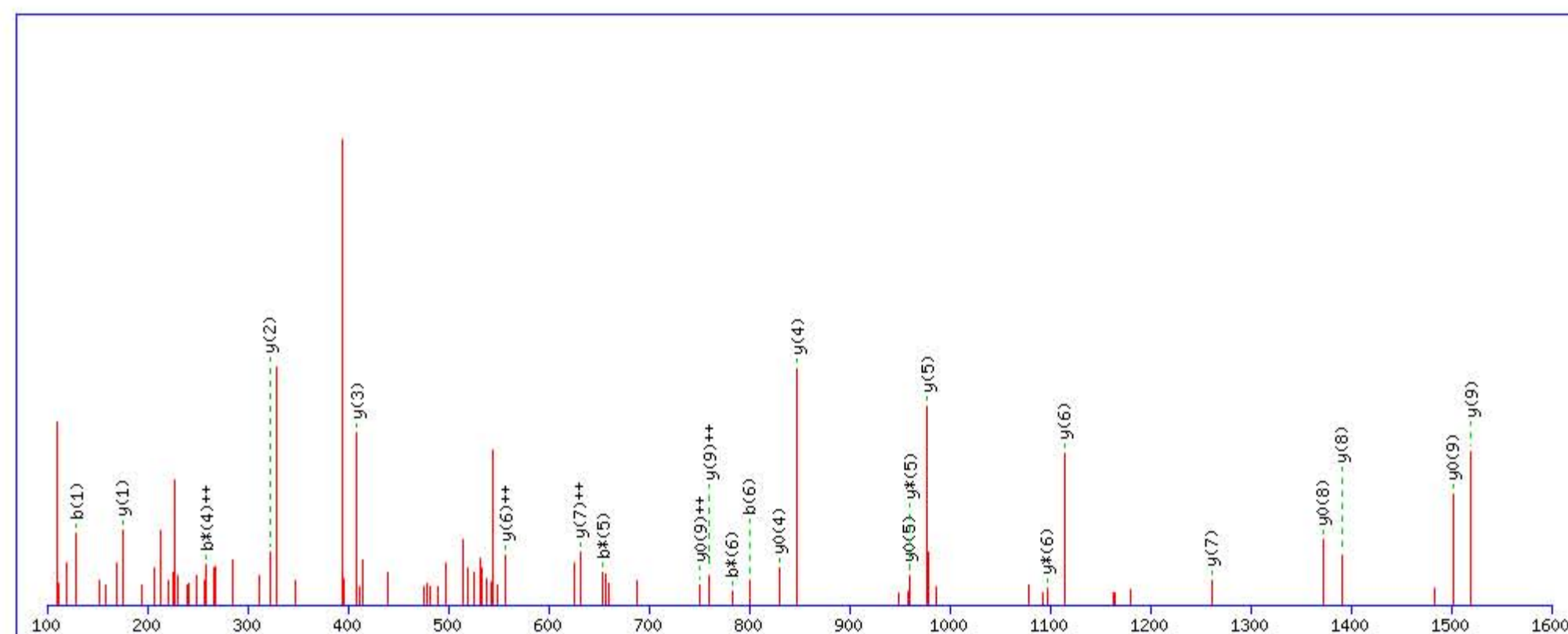
Title: Locus:1.1.1.3259.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1646.787491

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

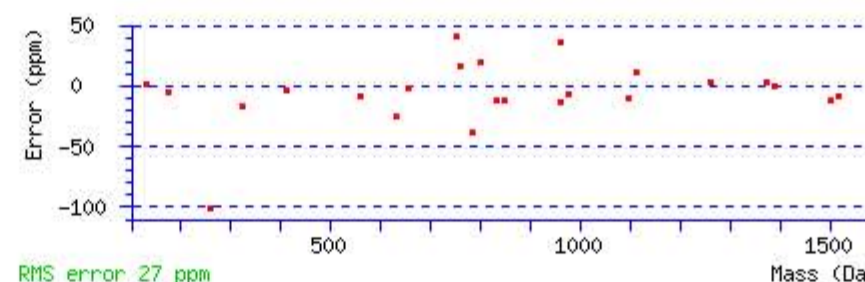
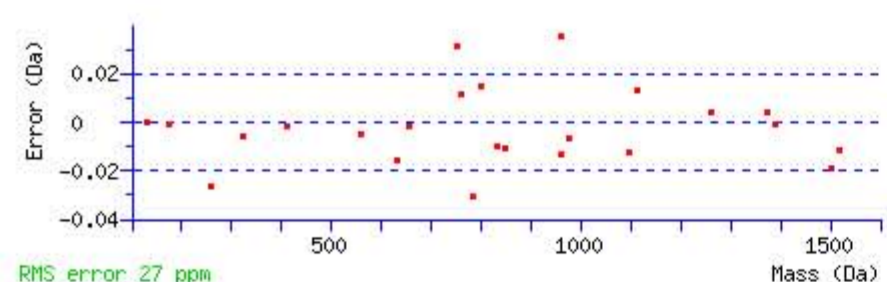
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 48 Expect: 0.00014

Matches : 24/102 fragment ions using 47 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>129.102239</b>	65.054757	112.075690	56.541483			<b>K</b>							<b>10</b>
2	258.144832	129.576054	241.118283	121.062780	240.134267	120.570772	<b>E</b>	<b>1519.699825</b>	<b>760.353551</b>	1502.673276	751.840276	<b>1501.689260</b>	<b>751.348268</b>	<b>9</b>
3	387.187425	194.097351	370.160876	185.584076	369.176860	185.092068	<b>E</b>	<b>1390.657232</b>	695.832254	1373.630683	687.318980	<b>1372.646667</b>	686.826972	<b>8</b>
4	534.255839	267.631558	517.229290	<b>259.118283</b>	516.245274	258.626275	<b>F</b>	<b>1261.614639</b>	<b>631.310958</b>	1244.588090	622.797683	1243.604074	622.305675	<b>7</b>
5	671.314751	336.161014	<b>654.288202</b>	327.647739	653.304186	327.155731	<b>H</b>	<b>1114.546225</b>	<b>557.776751</b>	<b>1097.519676</b>	549.263476	1096.535660	548.771468	<b>6</b>
6	<b>800.357344</b>	400.682310	<b>783.330795</b>	392.169036	782.346779	391.677028	<b>E</b>	<b>977.487313</b>	489.247295	<b>960.460764</b>	480.734020	<b>959.476748</b>	480.242012	<b>5</b>
7	1239.582670	620.294973	1222.556121	611.781699	1221.572105	611.289691	<b>Q</b>	<b>848.444720</b>	424.725998	831.418171	416.212724	<b>830.434155</b>	415.720716	<b>4</b>
8	1326.614698	663.810987	1309.588149	655.297713	1308.604133	654.805705	<b>S</b>	<b>409.219394</b>	205.113335	392.192845	196.600061	391.208829	196.108053	<b>3</b>
9	1473.683112	737.345194	1456.656563	728.831920	1455.672547	728.339912	<b>F</b>	<b>322.187366</b>	161.597321	305.160817	153.084047			<b>2</b>
10							<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839			<b>1</b>



NCBI BLAST search of [KEEFHEQSFR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
48.1	1646.787491	-0.004769	<a href="#">KEEFHEQSFR</a>
6.6	1646.763474	0.019248	<a href="#">KQEQLDDEEEK</a>
2.8	1646.804596	-0.021874	<a href="#">QEILTALDRDASCR</a>
1.8	1646.775589	0.007133	<a href="#">KPGLEEAVESACAMR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GQCLITQSPYYR**

Found in **HABP2\_HUMAN**, Hyaluronan-binding protein 2 OS=Homo sapiens GN=HABP2 PE=1 SV=1

Match to Query 37316: 1892.929032 from(631.983620,3+) rtinseconds(2109) index(46656)

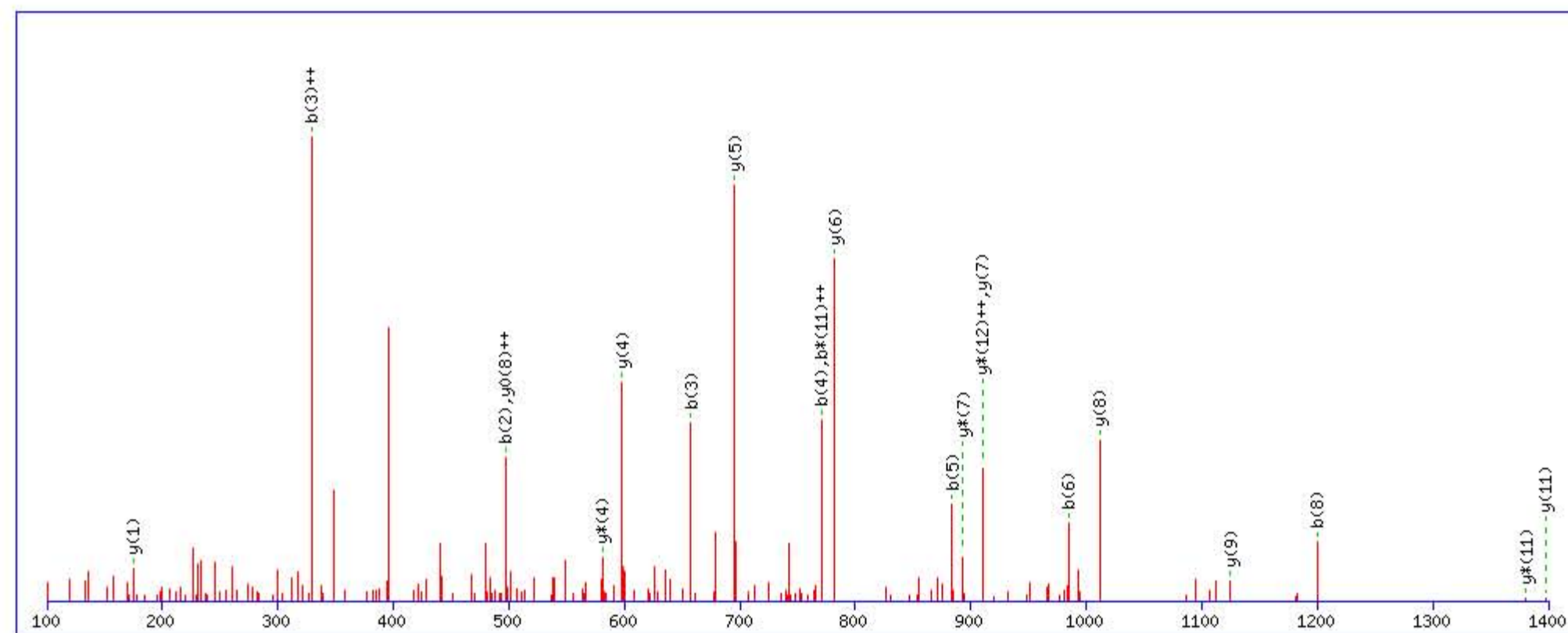
Title: Locus:1.1.1.3447.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1892.927704

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

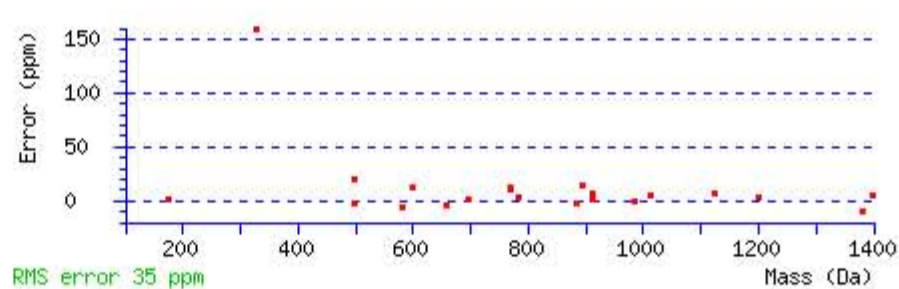
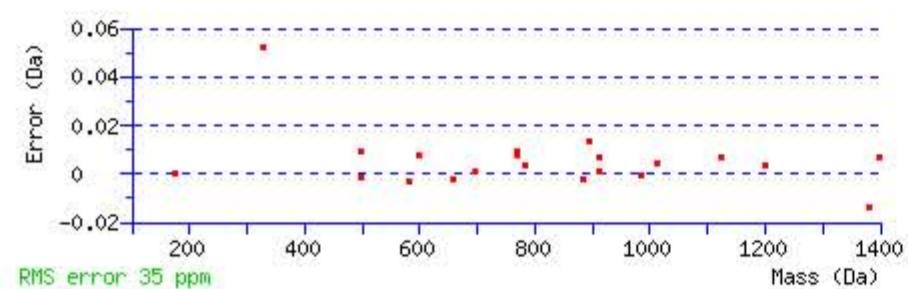
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 55 Expect: 8e-006

Matches : 21/122 fragment ions using 24 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							13
2	<b>497.254066</b>	249.130671	480.227517	240.617397			Q	1836.913526	918.960401	1819.886977	<b>910.447127</b>	1818.902961	909.955119	12
3	<b>657.284715</b>	<b>329.145996</b>	640.258166	320.632721			C	<b>1397.688200</b>	699.347738	<b>1380.661651</b>	690.834464	1379.677635	690.342456	11
4	<b>770.368779</b>	385.688028	753.342230	377.174753			L	1237.657551	619.332414	1220.631002	610.819139	1219.646986	610.327131	10
5	<b>883.452843</b>	442.230060	866.426294	433.716785			I	<b>1124.573487</b>	562.790382	1107.546938	554.277107	1106.562922	553.785099	9
6	<b>984.500522</b>	492.753899	967.473973	484.240625	966.489957	483.748617	T	<b>1011.489423</b>	506.248350	994.462874	497.735075	993.478858	<b>497.243067</b>	8
7	1112.559100	556.783188	1095.532551	548.269914	1094.548535	547.777906	Q	<b>910.441744</b>	455.724510	<b>893.415195</b>	447.211236	892.431179	446.719228	7
8	<b>1199.591128</b>	600.299202	1182.564579	591.785928	1181.580563	591.293920	S	<b>782.383166</b>	391.695221	765.356617	383.181947	764.372601	382.689939	6
9	1296.643892	648.825584	1279.617343	640.312310	1278.633327	639.820302	P	<b>695.351138</b>	348.179207	678.324589	339.665933			5
10	1393.696656	697.351966	1376.670107	688.838692	1375.686091	688.346684	P	<b>598.298374</b>	299.652825	<b>581.271825</b>	291.139551			4
11	1556.759985	778.883631	1539.733436	<b>770.370356</b>	1538.749420	769.878348	Y	501.245610	251.126443	484.219061	242.613169			3
12	1719.823314	860.415295	1702.796765	851.902021	1701.812749	851.410013	Y	338.182281	169.594778	321.155732	161.081504			2
13							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [GQCLITQSPYYR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
55.4	1892.927704	0.001328	<a href="#">GQCLITQSPYYR</a>
18.0	1892.927704	0.001328	<a href="#">GQCLITQSPYYR</a>
1.1	1892.942764	-0.013732	<a href="#">CLLLHPAGHAEPAAAGSHR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **QEPSQGTTTFAVTSILR**

Found in **IGHA1\_HUMAN**, Ig alpha-1 chain C region OS=Homo sapiens GN=IGHA1 PE=1 SV=2

Match to Query 42252: 2146.103442 from(716.375090,3+) rtinseconds(2469) index(34375)

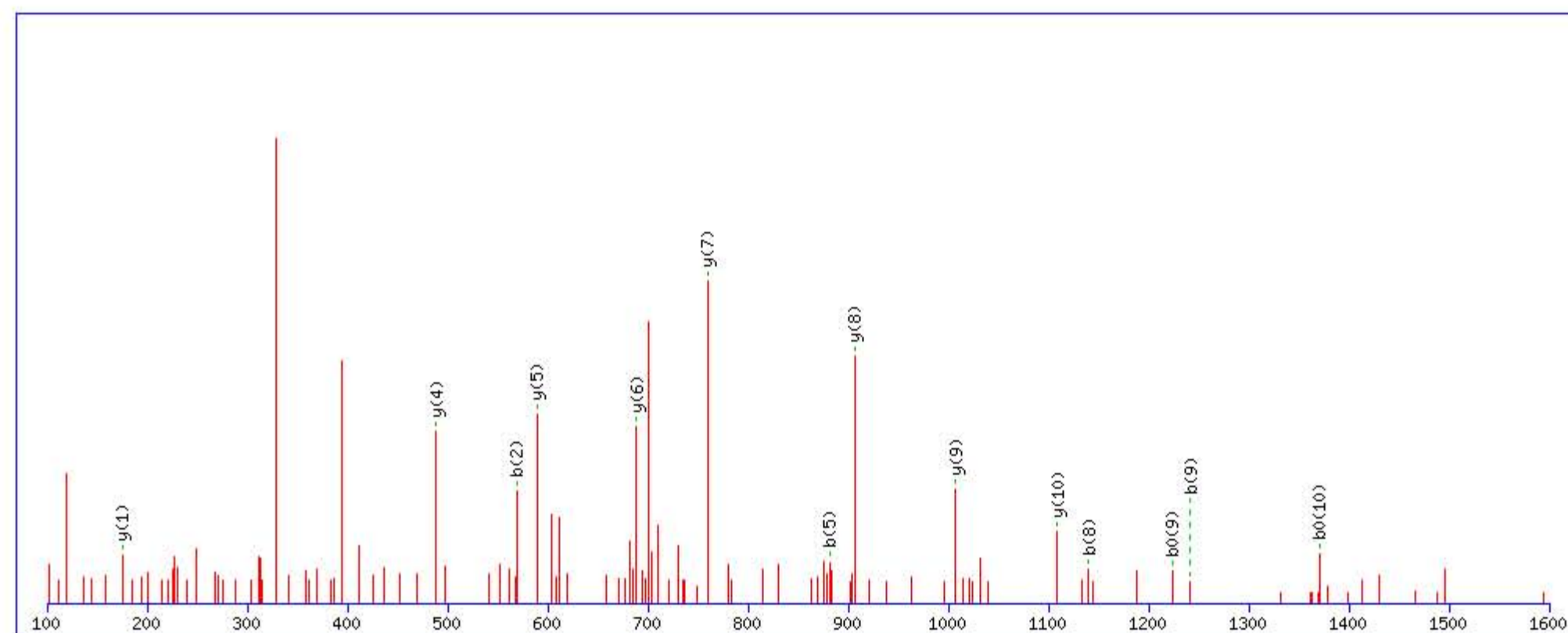
Title: Locus:1.1.1.3523.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2146.109253

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

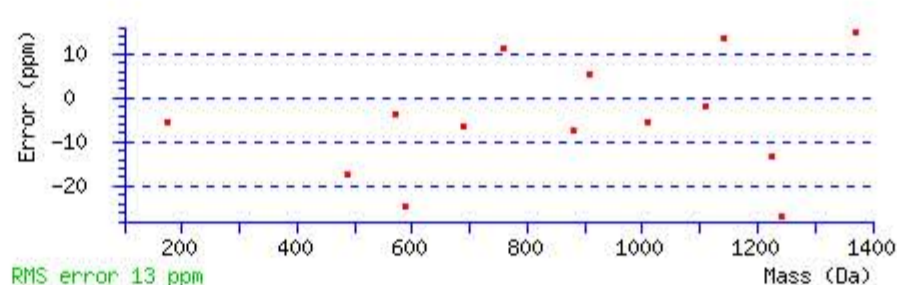
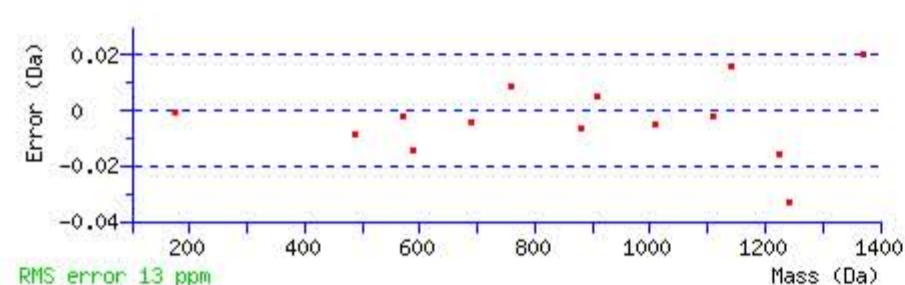
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 37 Expect: 0.006

Matches : 14/184 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							17
2	<b>569.275195</b>	285.141236	552.248646	276.627961	551.264630	276.135953	E	1707.891193	854.449235	1690.864644	845.935960	1689.880628	845.443952	16
3	666.327959	333.667618	649.301410	325.154343	648.317394	324.662335	P	1578.848600	789.927938	1561.822051	781.414664	1560.838035	780.922656	15
4	753.359987	377.183632	736.333438	368.670357	735.349422	368.178349	S	1481.795836	741.401556	1464.769287	732.888282	1463.785271	732.396274	14
5	<b>881.418565</b>	441.212921	864.392016	432.699646	863.408000	432.207638	Q	1394.763808	697.885542	1377.737259	689.372268	1376.753243	688.880260	13
6	938.440029	469.723653	921.413480	461.210378	920.429464	460.718370	G	1266.705230	633.856253	1249.678681	625.342979	1248.694665	624.850971	12
7	1039.487708	520.247492	1022.461159	511.734218	1021.477143	511.242210	T	1209.683766	605.345521	1192.657217	596.832247	1191.673201	596.340239	11
8	<b>1140.535387</b>	570.771332	1123.508838	562.258057	1122.524822	561.766049	T	<b>1108.636087</b>	554.821682	1091.609538	546.308407	1090.625522	545.816399	10
9	<b>1241.583066</b>	621.295171	1224.556517	612.781897	<b>1223.572501</b>	612.289889	T	<b>1007.588408</b>	504.297842	990.561859	495.784568	989.577843	495.292560	9
10	1388.651480	694.829378	1371.624931	686.316104	<b>1370.640915</b>	685.824096	F	<b>906.540729</b>	453.774003	889.514180	445.260728	888.530164	444.768720	8
11	1459.688594	730.347935	1442.662045	721.834661	1441.678029	721.342653	A	<b>759.472315</b>	380.239796	742.445766	371.726521	741.461750	371.234513	7
12	1558.757008	779.882142	1541.730459	771.368868	1540.746443	770.876860	V	<b>688.435201</b>	344.721239	671.408652	336.207964	670.424636	335.715956	6
13	1659.804687	830.405982	1642.778138	821.892707	1641.794122	821.400699	T	<b>589.366787</b>	295.187032	572.340238	286.673757	571.356222	286.181749	5
14	1746.836715	873.921996	1729.810166	865.408721	1728.826150	864.916713	S	<b>488.319108</b>	244.663192	471.292559	236.149918	470.308543	235.657910	4
15	1859.920779	930.464028	1842.894230	921.950753	1841.910214	921.458745	I	401.287080	201.147178	384.260531	192.633903			3
16	1973.004843	987.006060	1955.978294	978.492785	1954.994278	978.000777	L	288.203016	144.605146	271.176467	136.091872			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549840			1



NCBI BLAST search of **QEPSQGTTTFAVTSILR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
36.7	2146.109253	-0.005811	<a href="#">QEPSQGTTTFAVTSILR</a>
34.6	2146.109253	-0.005811	<a href="#">QEPSQGTTTFAVTSILR</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **QEPSQGTTFVAVTSILR**

Found in **IGHA1\_HUMAN**, Ig alpha-1 chain C region OS=Homo sapiens GN=IGHA1 PE=1 SV=2

Match to Query 42253: 2146.106202 from(716.376010,3+) rtinseconds(2503) index(34614)

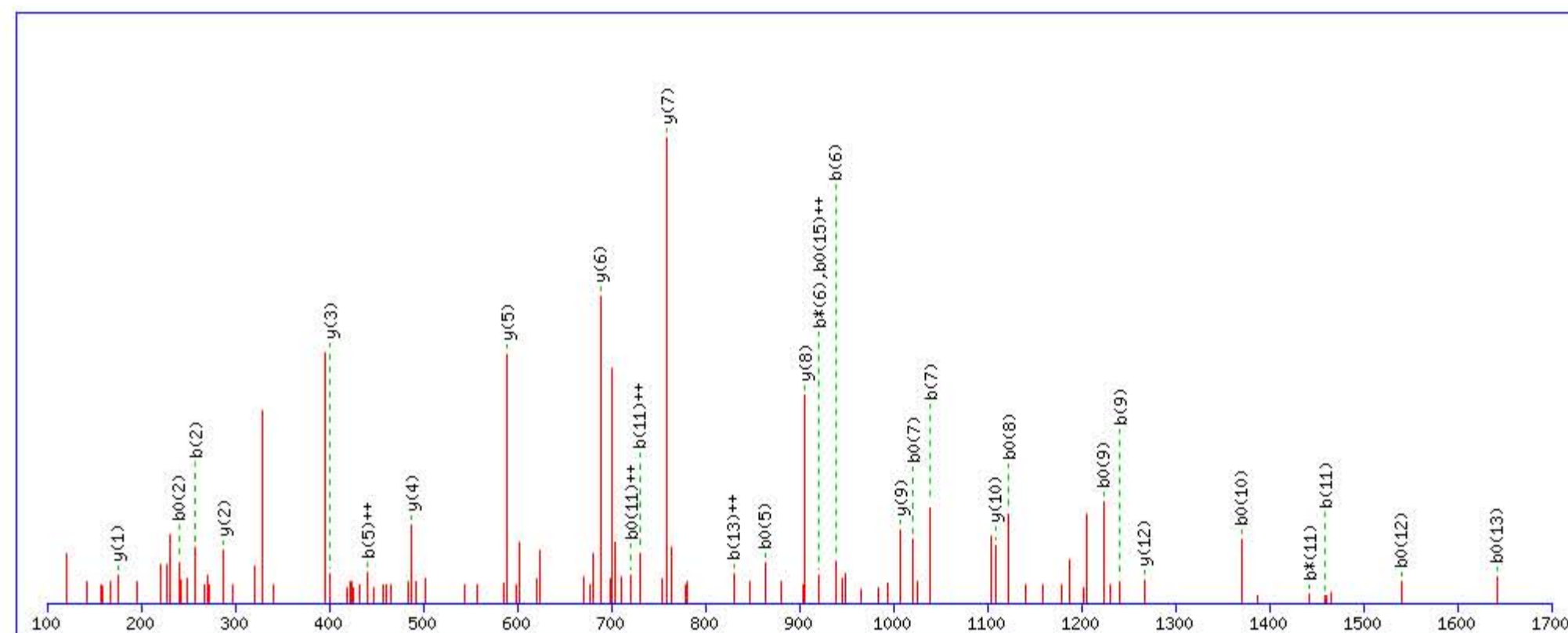
Title: Locus:1.1.1.3535.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 100 to 1700 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2146.109253

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

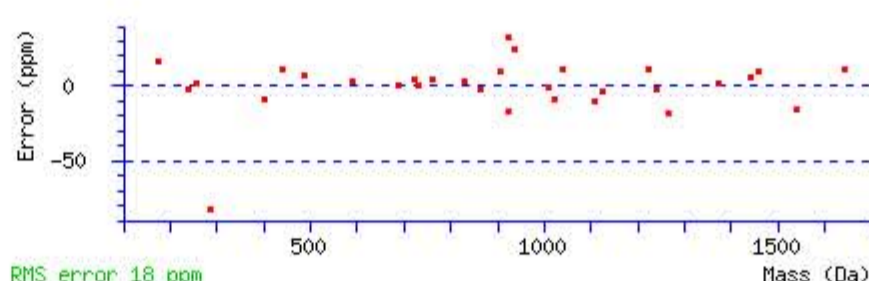
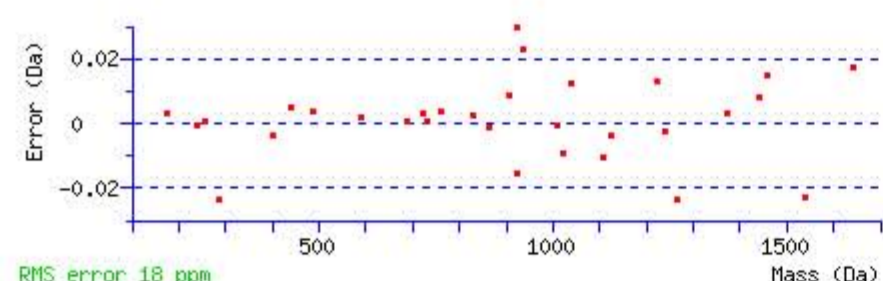
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 59 Expect: 3.5e-005

Matches : 31/184 fragment ions using 56 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.065854	65.036565	112.039305	56.523291			Q							17
2	258.108447	129.557862	241.081898	121.044587	240.097882	120.552579	E	2019.057941	1010.032609	2002.031392	1001.519334	2001.047376	1001.027326	16
3	355.161211	178.084244	338.134662	169.570969	337.150646	169.078961	P	1890.015348	945.511312	1872.988799	936.998038	1872.004783	936.506030	15
4	442.193239	221.600258	425.166690	213.086983	424.182674	212.594975	S	1792.962584	896.984930	1775.936035	888.471656	1774.952019	887.979648	14
5	881.418565	441.212921	864.392016	432.699646	863.408000	432.207638	Q	1705.930556	853.468916	1688.904007	844.955642	1687.919991	844.463634	13
6	938.440029	469.723653	921.413480	461.210378	920.429464	460.718370	G	1266.705230	633.856253	1249.678681	625.342979	1248.694665	624.850971	12
7	1039.487708	520.247492	1022.461159	511.734218	1021.477143	511.242210	T	1209.683766	605.345521	1192.657217	596.832247	1191.673201	596.340239	11
8	1140.535387	570.771332	1123.508838	562.258057	1122.524822	561.766049	T	1108.636087	554.821682	1091.609538	546.308407	1090.625522	545.816399	10
9	1241.583066	621.295171	1224.556517	612.781897	1223.572501	612.289889	T	1007.588408	504.297842	990.561859	495.784568	989.577843	495.292560	9
10	1388.651480	694.829378	1371.624931	686.316104	1370.640915	685.824096	F	906.540729	453.774003	889.514180	445.260728	888.530164	444.768720	8
11	1459.688594	730.347935	1442.662045	721.834661	1441.678029	721.342653	A	759.472315	380.239796	742.445766	371.726521	741.461750	371.234513	7
12	1558.757008	779.882142	1541.730459	771.368868	1540.746443	770.876860	V	688.435201	344.721239	671.408652	336.207964	670.424636	335.715956	6
13	1659.804687	830.405982	1642.778138	821.892707	1641.794122	821.400699	T	589.366787	295.187032	572.340238	286.673757	571.356222	286.181749	5
14	1746.836715	873.921996	1729.810166	865.408721	1728.826150	864.916713	S	488.319108	244.663192	471.292559	236.149918	470.308543	235.657910	4
15	1859.920779	930.464028	1842.894230	921.950753	1841.910214	921.458745	I	401.287080	201.147178	384.260531	192.633903			3
16	1973.004843	987.006060	1955.978294	978.492785	1954.994278	978.000777	L	288.203016	144.605146	271.176467	136.091872			2
17							R	175.118952	88.063114	158.092403	79.549840			1



NCBI BLAST search of **QEPSQGTTFVAVTSILR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
59.1	2146.109253	-0.003051	<a href="#">QEPSQGTTFVAVTSILR</a>
56.2	2146.109253	-0.003051	<a href="#">QEPSQGTTFVAVTSILR</a>

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

**Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **NFPPSQDASGDLYTTSSQLTLPATQCLAGK**

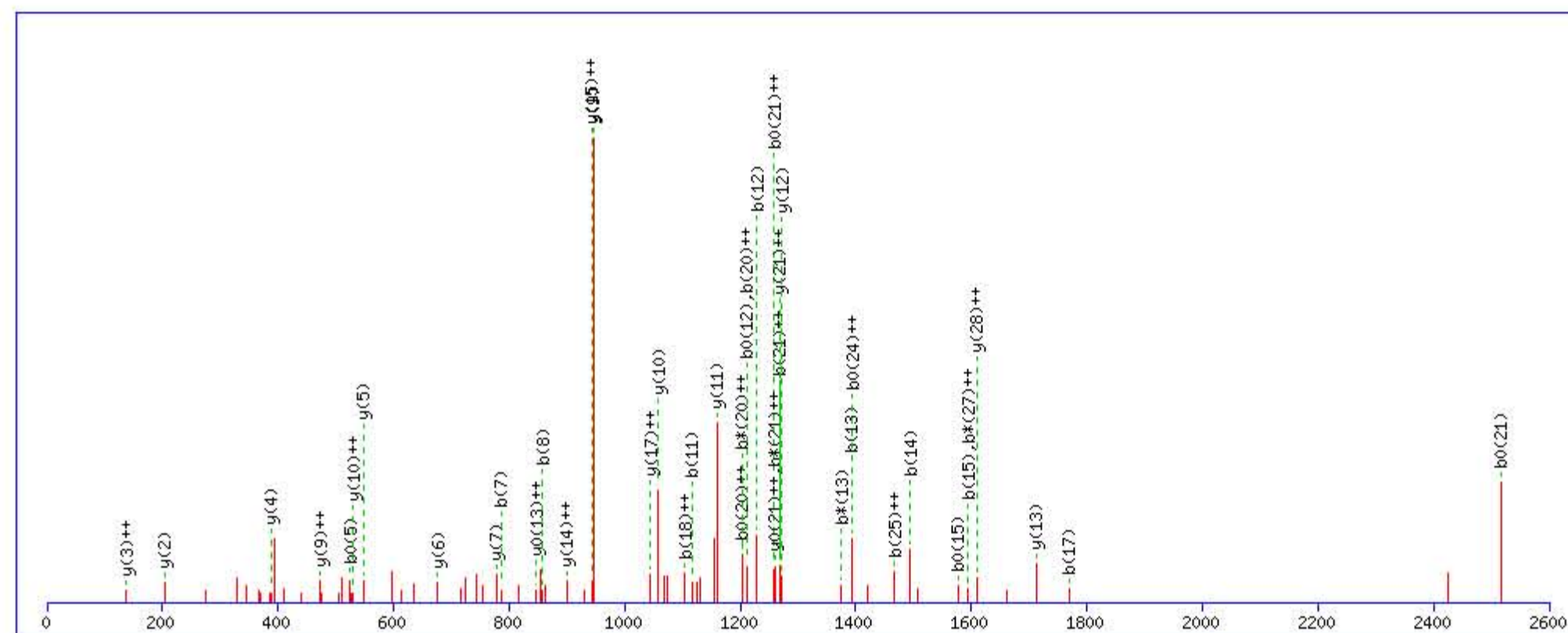
Found in **IGHA1\_HUMAN**, Ig alpha-1 chain C region OS=Homo sapiens GN=IGHA1 PE=1 SV=2

Match to Query 45404: 3478.661652 from(1160.561160,3+) rtinseconds(2582) index(35043)  
 Title: Locus:1.1.1.3562.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

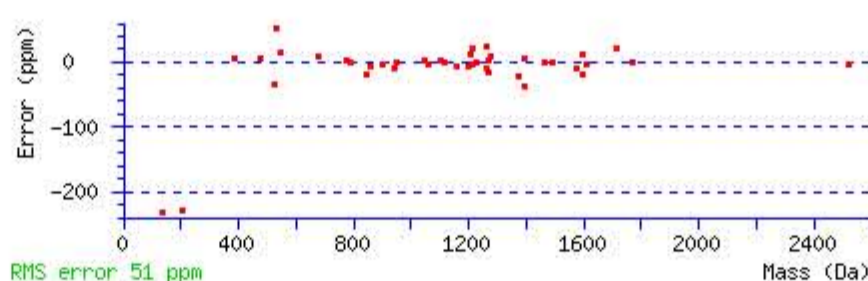
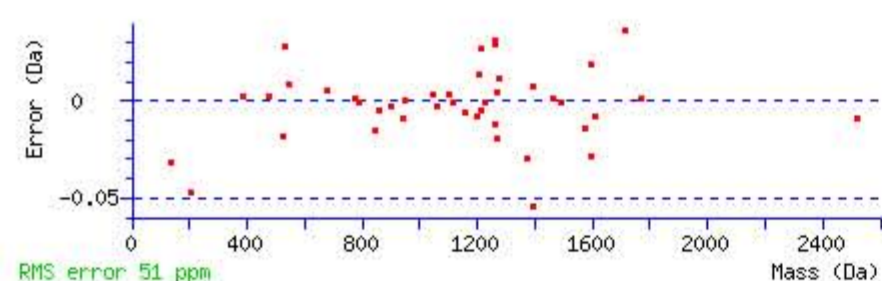
Or, Plot from [0] to [2600] Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 3478.674866  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q18 : Biotin:Thermo-21345 (Q)  
 Ions Score: 57 Expect: 8.6e-006  
 Matches : 43/328 fragment ions using 78 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>++</sup> *	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>++</sup> *	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			<b>N</b>							<b>30</b>
2	262.118617	131.562946	245.092068	123.049672			<b>F</b>	3365.639210	1683.323243	3348.612661	1674.809968	3347.628645	1674.317960	<b>29</b>
3	359.171381	180.089328	342.144832	171.576054			<b>P</b>	3218.570796	<b>1609.789036</b>	3201.544247	1601.275761	3200.560231	1600.783753	<b>28</b>
4	456.224145	228.615710	439.197596	220.102436			<b>P</b>	3121.518032	1561.262654	3104.491483	1552.749379	3103.507467	1552.257371	<b>27</b>
5	543.256173	272.131725	526.229624	263.618450	<b>525.245608</b>	263.126442	<b>S</b>	3024.465268	1512.736272	3007.438719	1504.222997	3006.454703	1503.730989	<b>26</b>
6	671.314751	336.161014	654.288202	327.647739	653.304186	327.155731	<b>Q</b>	2937.433240	1469.220258	2920.406691	1460.706983	2919.422675	1460.214975	<b>25</b>
7	<b>786.341694</b>	393.674485	769.315145	385.161210	768.331129	384.669202	<b>D</b>	2809.374662	1405.190969	2792.348113	1396.677694	2791.364097	1396.185686	<b>24</b>
8	<b>857.378808</b>	429.193042	840.352259	420.679767	839.368243	420.187759	<b>A</b>	2694.347719	1347.677497	2677.321170	1339.164223	2676.337154	1338.672215	<b>23</b>
9	944.410836	472.709056	927.384287	464.195781	926.400271	463.703773	<b>S</b>	2623.310605	1312.158941	2606.284056	1303.645666	2605.300040	1303.153658	<b>22</b>
10	1001.432300	501.219788	984.405751	492.706513	983.421735	492.214505	<b>G</b>	2536.278577	<b>1268.642926</b>	2519.252028	1260.129652	2518.268012	<b>1259.637644</b>	<b>21</b>
11	<b>1116.459243</b>	558.733260	1099.432694	550.219985	1098.448678	549.727977	<b>D</b>	2479.257113	1240.132195	2462.230564	1231.618920	2461.246548	1231.126912	<b>20</b>
12	<b>1229.543307</b>	615.275291	1212.516758	606.762017	<b>1211.532742</b>	606.270009	<b>L</b>	2364.230170	1182.618723	2347.203621	1174.105448	2346.219605	1173.613440	<b>19</b>
13	<b>1392.606636</b>	696.806956	<b>1375.580087</b>	688.293682	1374.596071	687.801673	<b>Y</b>	2251.146106	1126.076691	2234.119557	1117.563416	2233.135541	1117.071408	<b>18</b>
14	<b>1493.654315</b>	747.330796	1476.627766	738.817521	1475.643750	738.325513	<b>T</b>	2088.082777	<b>1044.545026</b>	2071.056228	1036.031752	2070.072212	1035.539744	<b>17</b>
15	<b>1594.701994</b>	797.854635	1577.675445	789.341361	<b>1576.691429</b>	788.849353	<b>T</b>	1987.035098	994.021187	1970.008549	985.507913	1969.024533	985.015905	<b>16</b>
16	1681.734022	841.370649	1664.707473	832.857375	1663.723457	832.365367	<b>S</b>	1885.987419	<b>943.497348</b>	1868.960870	934.984073	1867.976854	934.492065	<b>15</b>
17	<b>1768.766050</b>	884.886663	1751.739501	876.373389	1750.755485	875.881381	<b>S</b>	1798.955391	<b>899.981334</b>	1781.928842	891.468059	1780.944826	890.976051	<b>14</b>
18	2207.991376	<b>1104.499326</b>	2190.964827	1095.986051	2189.980811	1095.494043	<b>Q</b>	<b>1711.923363</b>	856.465320	1694.896814	847.952045	1693.912798	<b>847.460037</b>	<b>13</b>
19	2321.075440	1161.041358	2304.048891	1152.528083	2303.064875	1152.036075	<b>L</b>	<b>1272.698037</b>	636.852657	1255.671488	628.339382	1254.687472	627.847374	<b>12</b>
20	2422.123119	<b>1211.565197</b>	2405.096570	1203.051923	2404.112554	1202.559915	<b>T</b>	<b>1159.613973</b>	580.310625	1142.587424	571.797350	1141.603408	571.305342	<b>11</b>
21	2535.207183	<b>1268.107229</b>	2518.180634	1259.593955	<b>2517.196618</b>	<b>1259.101947</b>	<b>L</b>	<b>1058.566294</b>	<b>529.786785</b>	1041.539745	521.273511	1040.555729	520.781503	<b>10</b>
22	2632.259947	1316.633611	2615.233398	1308.120337	2614.249382	1307.628329	<b>P</b>	<b>945.482230</b>	<b>473.244753</b>	928.455681	464.731479	927.471665	464.239471	<b>9</b>
23	2703.297061	1352.152169	2686.270512	1343.638894	2685.286496	1343.146886	<b>A</b>	848.429466	424.718371	831.402917	416.205097	830.418901	415.713089	<b>8</b>
24	2804.344740	1402.676008	2787.318191	1394.162733	2786.334175	<b>1393.670725</b>	<b>T</b>	<b>777.392352</b>	389.199814	760.365803	380.686540	759.381787	380.194532	<b>7</b>
25	2932.403318	<b>1466.705297</b>	2915.376769	1458.192022	2914.392753	1457.700015	<b>Q</b>	<b>676.344673</b>	338.675975	659.318124	330.162700			<b>6</b>
26	3092.433967	1546.720621	3075.407418	1538.207347	3074.423402	1537.715339	<b>C</b>	<b>548.286095</b>	274.646686	531.259546	266.133411			<b>5</b>
27	3205.518031	1603.262653	3188.491482	1594.749379	3187.507466	1594.257371	<b>L</b>	<b>388.255446</b>	194.631361	371.228897	186.118087			<b>4</b>
28	3276.555145	1638.781211	3259.528596	1630.267936	3258.544580	1629.775928	<b>A</b>	275.171382	<b>138.089329</b>	258.144833	129.576055			<b>3</b>
29	3333.576609	1667.291943	3316.550060	1658.778668	3315.566044	1658.286660	<b>G</b>	<b>204.134268</b>	102.570772	187.107719	94.057497			<b>2</b>
30							<b>K</b>	147.112804	74.060040	130.086255	65.546765			<b>1</b>



NCBI BLAST search of **NFPPSQDASGDLYTTSSQLTLPATQCLAGK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

**All matches to this query**

Score	$M_r(\text{calc})$ :	Delta	Sequence
56.6	3478.674866	-0.013214	<a href="#">NFPPSQDASGDLYTTSSQLTLPATQCLAGK</a>
20.2	3478.674866	-0.013214	<a href="#">NFPPSQDASGDLYTTSSQLTLPATQCLAGK</a>
17.4	3478.674866	-0.013214	<a href="#">NFPPSQDASGDLYTTSSQLTLPATQCLAGK</a>
0.5	3478.617325	0.044327	<a href="#">INRDPSTFLLSYSEYVILNEDCQTSR</a>



**Peptide View**

MS/MS Fragmentation of **GDTFSCMVGHEALPLAFTQK**

Found in **IGHA1\_HUMAN**, Ig alpha-1 chain C region OS=Homo sapiens GN=IGHA1 PE=1 SV=2

Match to Query 48765: 2519.197392 from(840.739740,3+) rtinseconds(2568) index(34971)

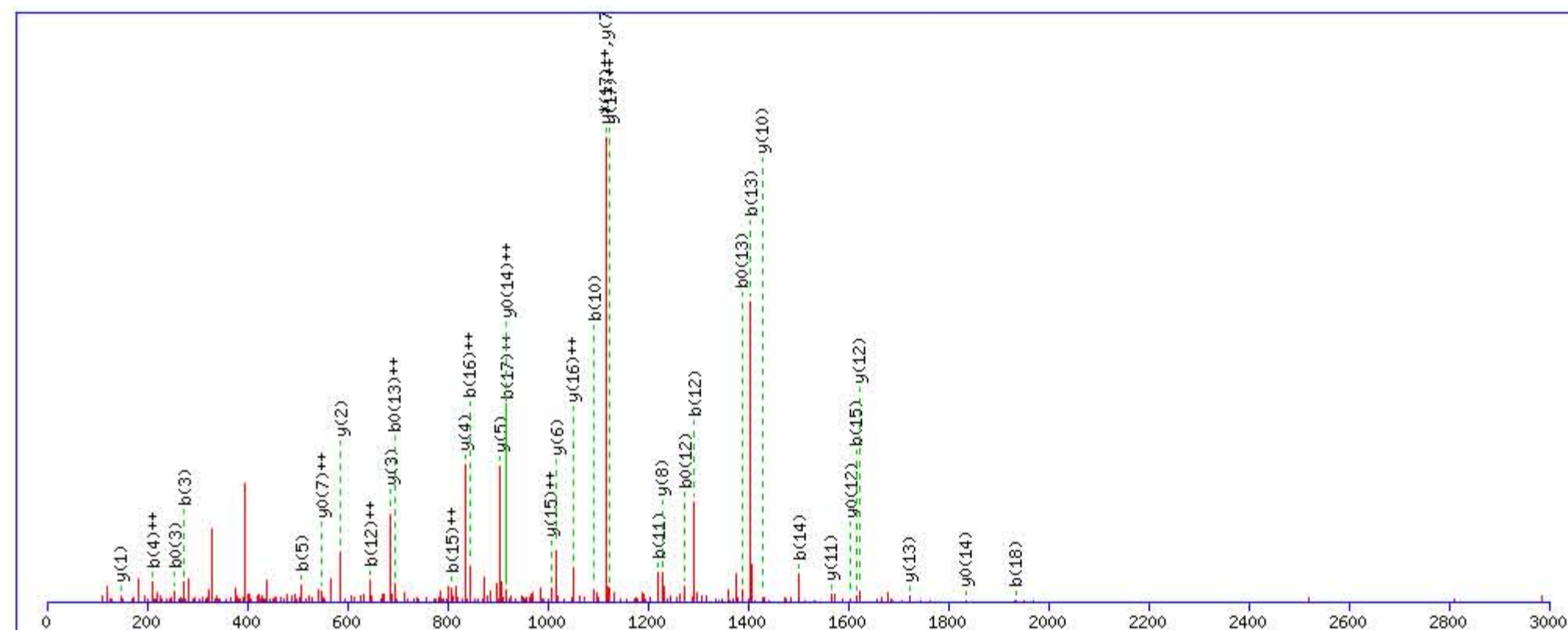
Title: Locus:1.1.1.3557.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

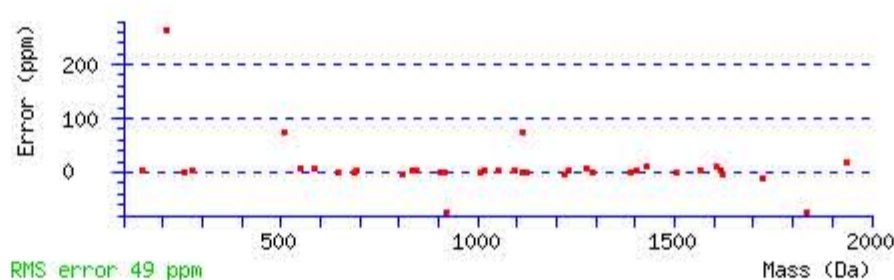
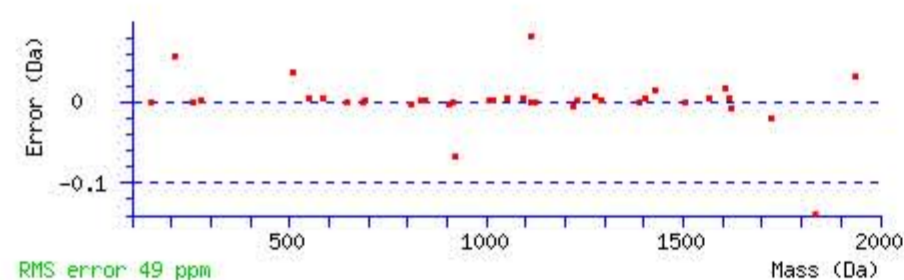
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2519.201126  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q19 : Biotin:Thermo-21345 (Q)  
 Ions Score: 62 Expect: 2e-006  
 Matches : 38/186 fragment ions using 72 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					<b>G</b>							20
2	173.055683	87.031479			155.045118	78.026197	<b>D</b>	2463.186924	1232.097100	2446.160375	1223.583825	2445.176359	1223.091817	19
3	<b>274.103362</b>	137.555319			<b>256.092797</b>	128.550037	<b>T</b>	2348.159981	1174.583628	2331.133432	1166.070354	2330.149416	1165.578346	18
4	421.171776	<b>211.089526</b>			403.161211	202.084243	<b>F</b>	2247.112302	<b>1124.059789</b>	2230.085753	<b>1115.546514</b>	2229.101737	1115.054506	17
5	<b>508.203804</b>	254.605540			490.193239	245.600257	<b>S</b>	2100.043888	<b>1050.525582</b>	2083.017339	1042.012307	2082.033323	1041.520299	16
6	668.234453	334.620865			650.223888	325.615582	<b>C</b>	2013.011860	<b>1007.009568</b>	1995.985311	998.496294	1995.001295	998.004286	15
7	799.274938	400.141107			781.264373	391.135825	<b>M</b>	1852.981211	926.994244	1835.954662	918.480969	<b>1834.970646</b>	<b>917.988961</b>	14
8	898.343352	449.675314			880.332787	440.670031	<b>V</b>	<b>1721.940726</b>	861.474001	1704.914177	852.960727	1703.930161	852.468719	13
9	955.364816	478.186046			937.354251	469.180764	<b>G</b>	<b>1622.872312</b>	811.939794	1605.845763	803.426520	<b>1604.861747</b>	802.934512	12
10	<b>1092.423728</b>	546.715502			1074.413163	537.710219	<b>H</b>	<b>1565.850848</b>	783.429062	1548.824299	774.915788	1547.840283	774.423780	11
11	<b>1221.466321</b>	611.236799			1203.455756	602.231516	<b>E</b>	<b>1428.791936</b>	714.899606	1411.765387	706.386332	1410.781371	705.894324	10
12	<b>1292.503435</b>	<b>646.755356</b>			<b>1274.492870</b>	637.750073	<b>A</b>	1299.749343	650.378310	1282.722794	641.865035	1281.738778	641.373027	9
13	<b>1405.587499</b>	703.297388			<b>1387.576934</b>	<b>694.292105</b>	<b>L</b>	<b>1228.712229</b>	614.859753	1211.685680	606.346478	1210.701664	605.854470	8
14	<b>1502.640263</b>	751.823770			1484.629698	742.818487	<b>P</b>	<b>1115.628165</b>	558.317721	1098.601616	549.804446	1097.617600	<b>549.312438</b>	7
15	<b>1615.724327</b>	<b>808.365801</b>			1597.713762	799.360519	<b>L</b>	<b>1018.575401</b>	509.791339	1001.548852	501.278064	1000.564836	500.786056	6
16	1686.761441	<b>843.884358</b>			1668.750876	834.879076	<b>A</b>	<b>905.491337</b>	453.249307	888.464788	444.736032	887.480772	444.244024	5
17	1833.829855	<b>917.418566</b>			1815.819290	908.413283	<b>F</b>	<b>834.454223</b>	417.730750	817.427674	409.217475	816.443658	408.725467	4
18	<b>1934.877534</b>	967.942405			1916.866969	958.937122	<b>T</b>	<b>687.385809</b>	344.196543	670.359260	335.683268	669.375244	335.191260	3
19	2374.102860	1187.555068	2357.076311	1179.041793	2356.092295	1178.549785	<b>Q</b>	<b>586.338130</b>	293.672703	569.311581	285.159429			2
20							<b>K</b>	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **GDTFSCMVGHEALPLAFTQK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
61.6	2519.201126	-0.003734	<a href="#">GDTFSCMVGHEALPLAFTQK</a>
0.9	2519.214783	-0.017391	<a href="#">KMQQENMKPQEQLTLEPYER</a>
0.2	2519.196243	0.001149	<a href="#">EGSPHDNPTVQQIVQLSPVMQDT</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **QEPSQGTTTFAVTSILR**

Found in **IGHA1\_HUMAN**, Ig alpha-1 chain C region OS=Homo sapiens GN=IGHA1 PE=1 SV=2

Match to Query 42252: 2146.103442 from(716.375090,3+) rtinseconds(2469) index(34375)

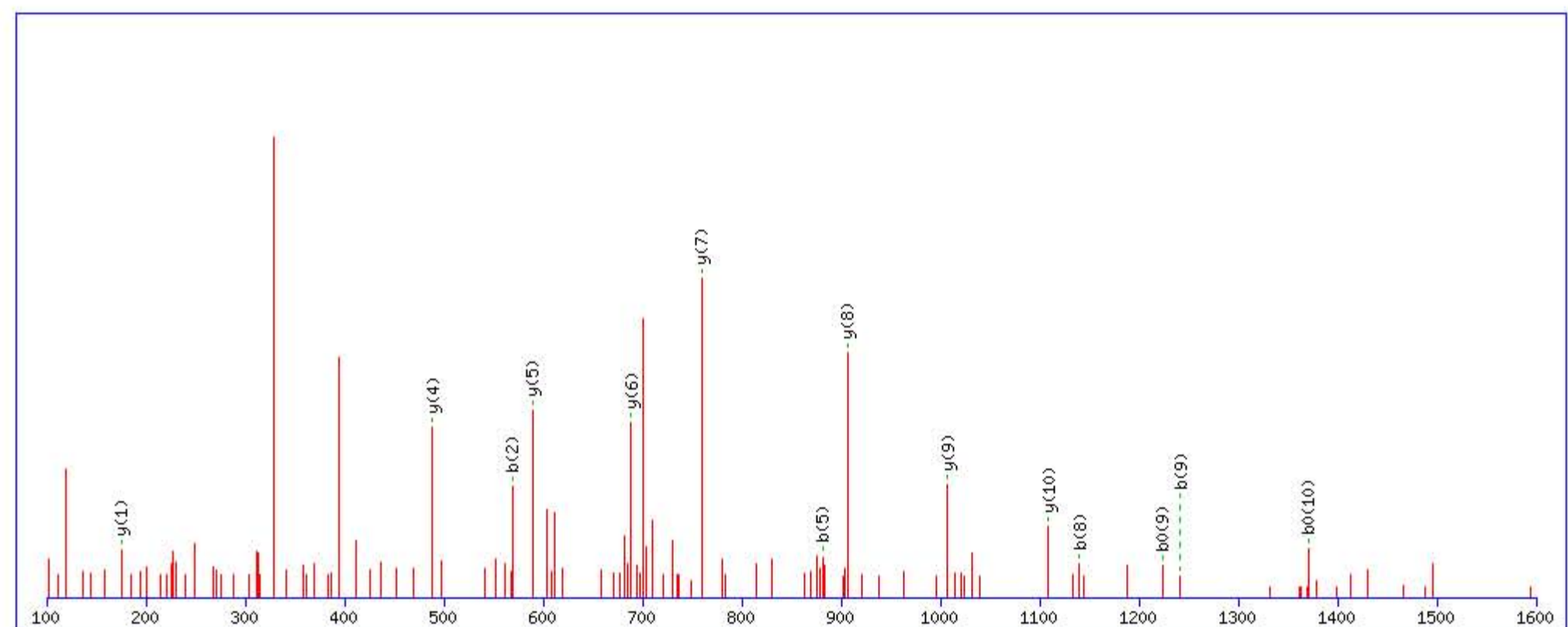
Title: Locus:1.1.1.3523.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2146.109253

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

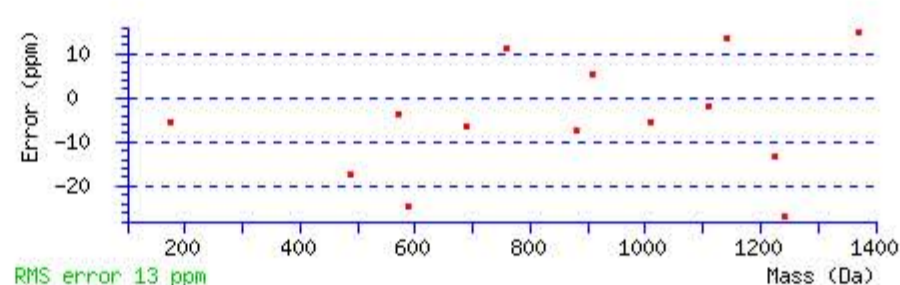
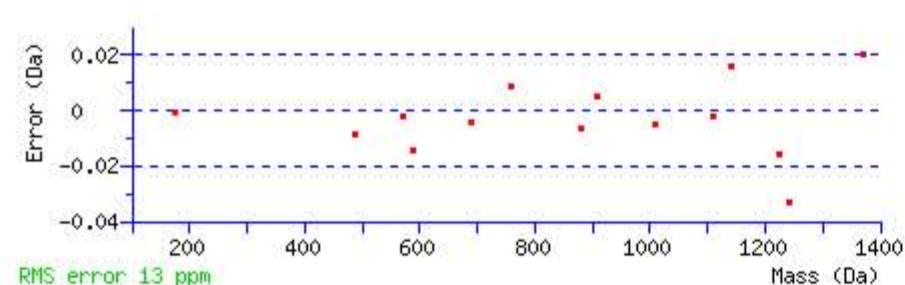
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 37 Expect: 0.006

Matches : 14/184 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							17
2	<b>569.275195</b>	285.141236	552.248646	276.627961	551.264630	276.135953	E	1707.891193	854.449235	1690.864644	845.935960	1689.880628	845.443952	16
3	666.327959	333.667618	649.301410	325.154343	648.317394	324.662335	P	1578.848600	789.927938	1561.822051	781.414664	1560.838035	780.922656	15
4	753.359987	377.183632	736.333438	368.670357	735.349422	368.178349	S	1481.795836	741.401556	1464.769287	732.888282	1463.785271	732.396274	14
5	<b>881.418565</b>	441.212921	864.392016	432.699646	863.408000	432.207638	Q	1394.763808	697.885542	1377.737259	689.372268	1376.753243	688.880260	13
6	938.440029	469.723653	921.413480	461.210378	920.429464	460.718370	G	1266.705230	633.856253	1249.678681	625.342979	1248.694665	624.850971	12
7	1039.487708	520.247492	1022.461159	511.734218	1021.477143	511.242210	T	1209.683766	605.345521	1192.657217	596.832247	1191.673201	596.340239	11
8	<b>1140.535387</b>	570.771332	1123.508838	562.258057	1122.524822	561.766049	T	<b>1108.636087</b>	554.821682	1091.609538	546.308407	1090.625522	545.816399	10
9	<b>1241.583066</b>	621.295171	1224.556517	612.781897	<b>1223.572501</b>	612.289889	T	<b>1007.588408</b>	504.297842	990.561859	495.784568	989.577843	495.292560	9
10	1388.651480	694.829378	1371.624931	686.316104	<b>1370.640915</b>	685.824096	F	<b>906.540729</b>	453.774003	889.514180	445.260728	888.530164	444.768720	8
11	1459.688594	730.347935	1442.662045	721.834661	1441.678029	721.342653	A	<b>759.472315</b>	380.239796	742.445766	371.726521	741.461750	371.234513	7
12	1558.757008	779.882142	1541.730459	771.368868	1540.746443	770.876860	V	<b>688.435201</b>	344.721239	671.408652	336.207964	670.424636	335.715956	6
13	1659.804687	830.405982	1642.778138	821.892707	1641.794122	821.400699	T	<b>589.366787</b>	295.187032	572.340238	286.673757	571.356222	286.181749	5
14	1746.836715	873.921996	1729.810166	865.408721	1728.826150	864.916713	S	<b>488.319108</b>	244.663192	471.292559	236.149918	470.308543	235.657910	4
15	1859.920779	930.464028	1842.894230	921.950753	1841.910214	921.458745	I	401.287080	201.147178	384.260531	192.633903			3
16	1973.004843	987.006060	1955.978294	978.492785	1954.994278	978.000777	L	288.203016	144.605146	271.176467	136.091872			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549840			1



NCBI BLAST search of **QEPSQGTTTFAVTSILR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
36.7	2146.109253	-0.005811	<a href="#">QEPSQGTTTFAVTSILR</a>
34.6	2146.109253	-0.005811	<a href="#">QEPSQGTTTFAVTSILR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QEPSQGTTTFAVTSILR**

Found in **IGHA1\_HUMAN**, Ig alpha-1 chain C region OS=Homo sapiens GN=IGHA1 PE=1 SV=2

Match to Query 42253: 2146.106202 from(716.376010,3+) rtinseconds(2503) index(34614)

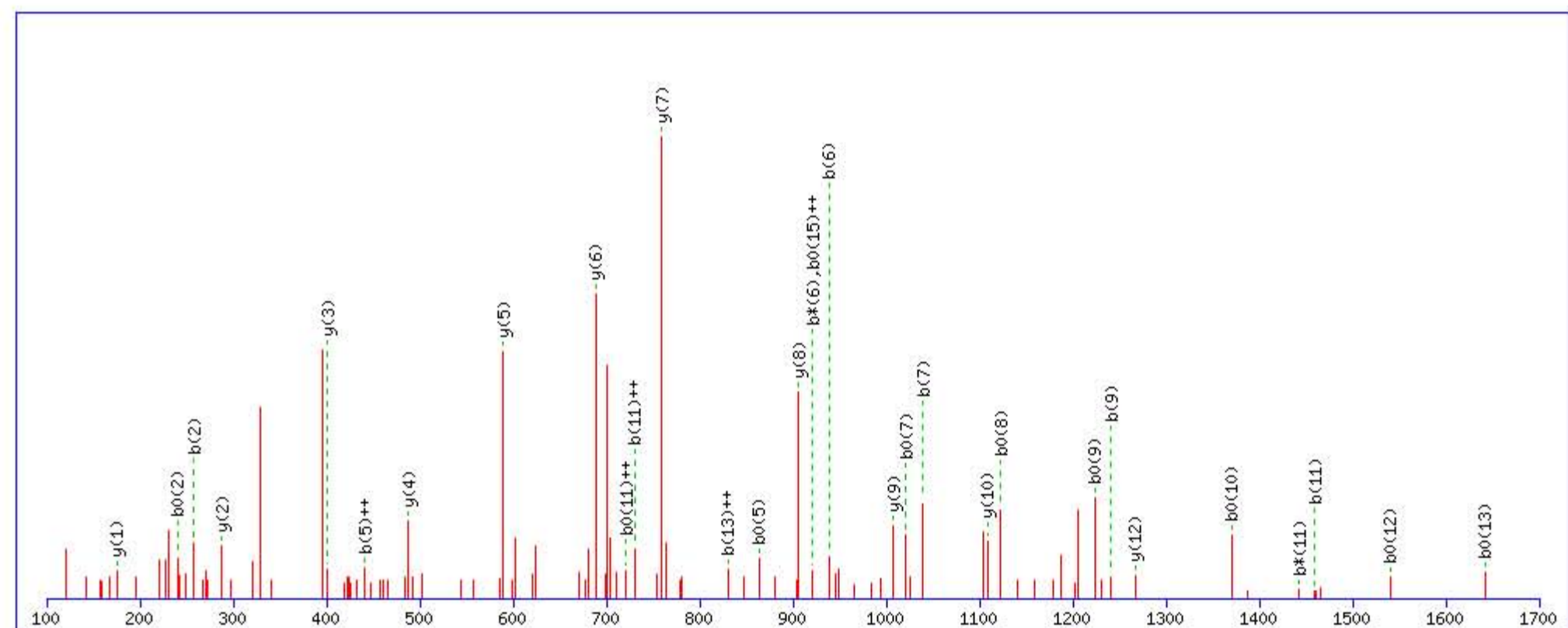
Title: Locus:1.1.1.3535.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2146.109253

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

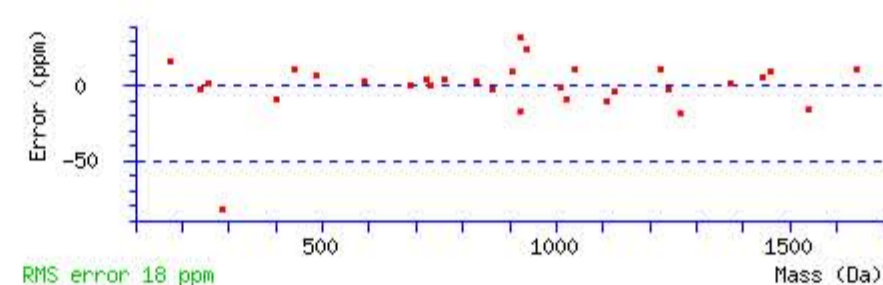
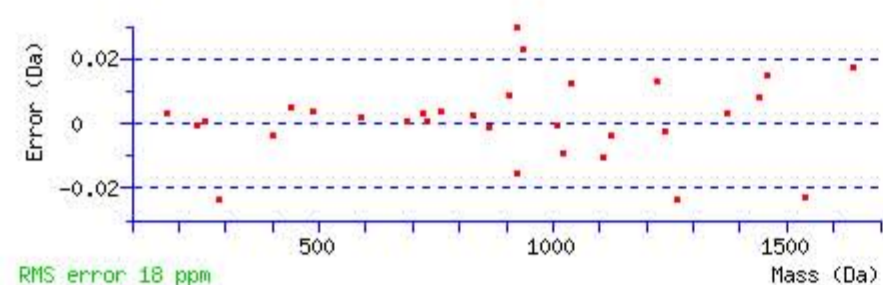
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 59 Expect: 3.5e-005

Matches : 31/184 fragment ions using 56 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.065854	65.036565	112.039305	56.523291			Q							17
2	<b>258.108447</b>	129.557862	241.081898	121.044587	<b>240.097882</b>	120.552579	E	2019.057941	1010.032609	2002.031392	1001.519334	2001.047376	1001.027326	16
3	355.161211	178.084244	338.134662	169.570969	337.150646	169.078961	P	1890.015348	945.511312	1872.988799	936.998038	1872.004783	936.506030	15
4	442.193239	221.600258	425.166690	213.086983	424.182674	212.594975	S	1792.962584	896.984930	1775.936035	888.471656	1774.952019	887.979648	14
5	881.418565	<b>441.212921</b>	864.392016	432.699646	<b>863.408000</b>	432.207638	Q	1705.930556	853.468916	1688.904007	844.955642	1687.919991	844.463634	13
6	<b>938.440029</b>	469.723653	<b>921.413480</b>	461.210378	920.429464	460.718370	G	<b>1266.705230</b>	633.856253	1249.678681	625.342979	1248.694665	624.850971	12
7	<b>1039.487708</b>	520.247492	1022.461159	511.734218	<b>1021.477143</b>	511.242210	T	1209.683766	605.345521	1192.657217	596.832247	1191.673201	596.340239	11
8	1140.535387	570.771332	1123.508838	562.258057	<b>1122.524822</b>	561.766049	T	<b>1108.636087</b>	554.821682	1091.609538	546.308407	1090.625522	545.816399	10
9	<b>1241.583066</b>	621.295171	1224.556517	612.781897	<b>1223.572501</b>	612.289889	T	<b>1007.588408</b>	504.297842	990.561859	495.784568	989.577843	495.292560	9
10	1388.651480	694.829378	1371.624931	686.316104	<b>1370.640915</b>	685.824096	F	<b>906.540729</b>	453.774003	889.514180	445.260728	888.530164	444.768720	8
11	<b>1459.688594</b>	<b>730.347935</b>	<b>1442.662045</b>	721.834661	1441.678029	<b>721.342653</b>	A	<b>759.472315</b>	380.239796	742.445766	371.726521	741.461750	371.234513	7
12	1558.757008	779.882142	1541.730459	771.368868	<b>1540.746443</b>	770.876860	V	<b>688.435201</b>	344.721239	671.408652	336.207964	670.424636	335.715956	6
13	1659.804687	<b>830.405982</b>	1642.778138	821.892707	<b>1641.794122</b>	821.400699	T	<b>589.366787</b>	295.187032	572.340238	286.673757	571.356222	286.181749	5
14	1746.836715	873.921996	1729.810166	865.408721	1728.826150	864.916713	S	<b>488.319108</b>	244.663192	471.292559	236.149918	470.308543	235.657910	4
15	1859.920779	930.464028	1842.894230	921.950753	1841.910214	<b>921.458745</b>	I	<b>401.287080</b>	201.147178	384.260531	192.633903			3
16	1973.004843	987.006060	1955.978294	978.492785	1954.994278	978.000777	L	<b>288.203016</b>	144.605146	271.176467	136.091872			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549840			1



NCBI BLAST search of **QEPSQGTTTFAVTSILR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
59.1	2146.109253	-0.003051	<a href="#">QEPSQGTTTFAVTSILR</a>
56.2	2146.109253	-0.003051	<a href="#">QEPSQGTTTFAVTSILR</a>

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

**Mascot Search Results**

**Peptide View**

MS/MS Fragmentation of **GDTFSCMVGHEALPLAFTQK**

Found in **IGHA1\_HUMAN**, Ig alpha-1 chain C region OS=Homo sapiens GN=IGHA1 PE=1 SV=2

Match to Query 48765: 2519.197392 from(840.739740,3+) rtinseconds(2568) index(34971)

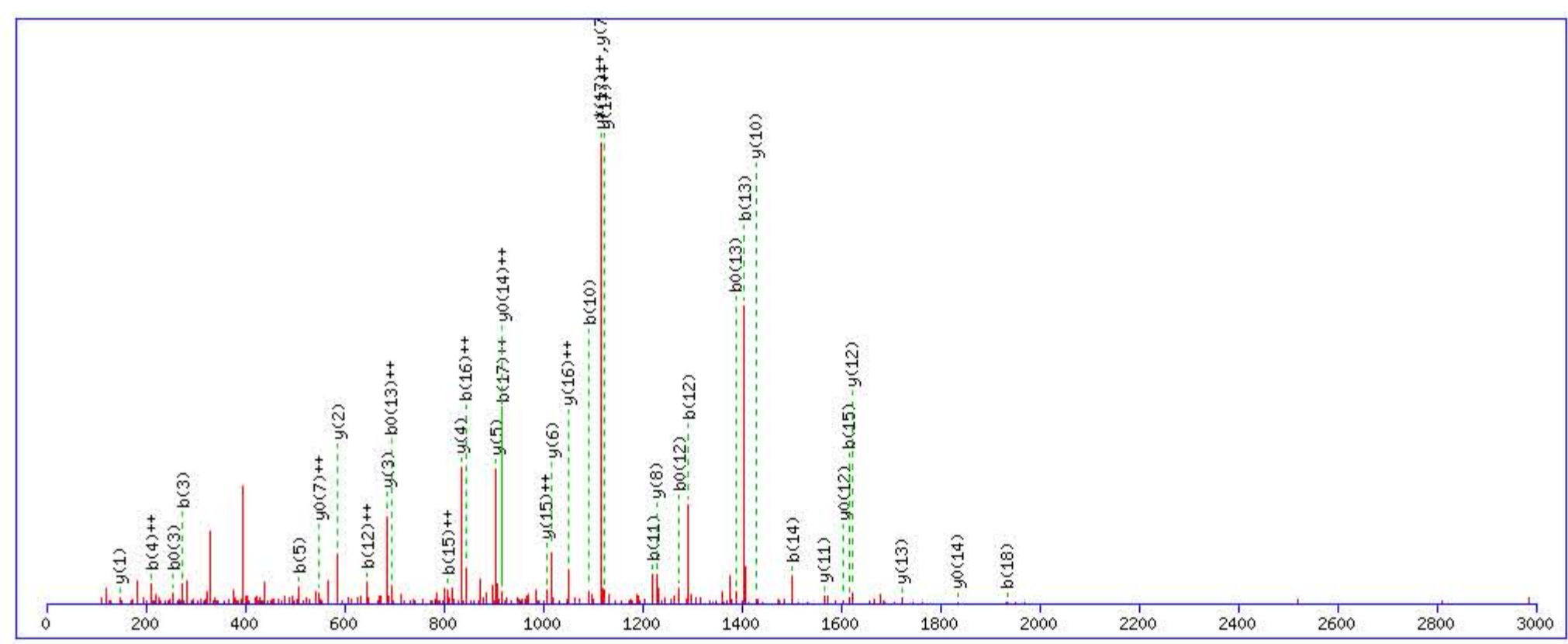
Title: Locus:1.1.1.3557.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2519.201126

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

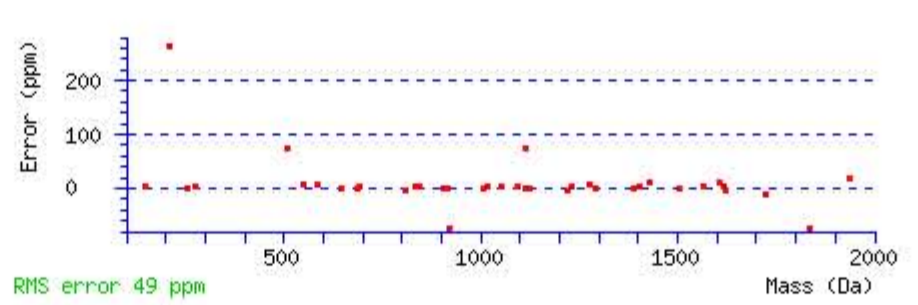
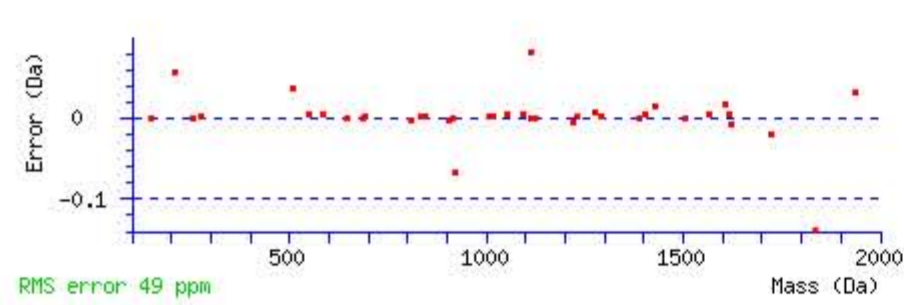
Variable modifications:

Q19 : Biotin:Thermo-21345 (Q)

Ions Score: 62 Expect: 2e-006

Matches : 38/186 fragment ions using 72 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							20
2	173.055683	87.031479			155.045118	78.026197	D	2463.186924	1232.097100	2446.160375	1223.583825	2445.176359	1223.091817	19
3	<b>274.103362</b>	137.555319			<b>256.092797</b>	128.550037	T	2348.159981	1174.583628	2331.133432	1166.070354	2330.149416	1165.578346	18
4	421.171776	<b>211.089526</b>			403.161211	202.084243	F	2247.112302	<b>1124.059789</b>	2230.085753	<b>1115.546514</b>	2229.101737	1115.054506	17
5	<b>508.203804</b>	254.605540			490.193239	245.600257	S	2100.043888	<b>1050.525582</b>	2083.017339	1042.012307	2082.033323	1041.520299	16
6	668.234453	334.620865			650.223888	325.615582	C	2013.011860	<b>1007.009568</b>	1995.985311	998.496294	1995.001295	998.004286	15
7	799.274938	400.141107			781.264373	391.135825	M	1852.981211	926.994244	1835.954662	918.480969	<b>1834.970646</b>	<b>917.988961</b>	14
8	898.343352	449.675314			880.332787	440.670031	V	<b>1721.940726</b>	861.474001	1704.914177	852.960727	1703.930161	852.468719	13
9	955.364816	478.186046			937.354251	469.180764	G	<b>1622.872312</b>	811.939794	1605.845763	803.426520	<b>1604.861747</b>	802.934512	12
10	<b>1092.423728</b>	546.715502			1074.413163	537.710219	H	<b>1565.850848</b>	783.429062	1548.824299	774.915788	1547.840283	774.423780	11
11	<b>1221.466321</b>	611.236799			1203.455756	602.231516	E	<b>1428.791936</b>	714.899606	1411.765387	706.386332	1410.781371	705.894324	10
12	<b>1292.503435</b>	<b>646.755356</b>			<b>1274.492870</b>	637.750073	A	1299.749343	650.378310	1282.722794	641.865035	1281.738778	641.373027	9
13	<b>1405.587499</b>	703.297388			<b>1387.576934</b>	<b>694.292105</b>	L	<b>1228.712229</b>	614.859753	1211.685680	606.346478	1210.701664	605.854470	8
14	<b>1502.640263</b>	751.823770			1484.629698	742.818487	P	<b>1115.628165</b>	558.317721	1098.601616	549.804446	1097.617600	<b>549.312438</b>	7
15	<b>1615.724327</b>	<b>808.365801</b>			1597.713762	799.360519	L	<b>1018.575401</b>	509.791339	1001.548852	501.278064	1000.564836	500.786056	6
16	1686.761441	<b>843.884358</b>			1668.750876	834.879076	A	<b>905.491337</b>	453.249307	888.464788	444.736032	887.480772	444.244024	5
17	1833.829855	<b>917.418566</b>			1815.819290	908.413283	F	<b>834.454223</b>	417.730750	817.427674	409.217475	816.443658	408.725467	4
18	<b>1934.877534</b>	967.942405			1916.866969	958.937122	T	<b>687.385809</b>	344.196543	670.359260	335.683268	669.375244	335.191260	3
19	2374.102860	1187.555068	2357.076311	1179.041793	2356.092295	1178.549785	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
20							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [GDTFSCMVGHEALPLAFTQK](#)  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
61.6	2519.201126	-0.003734	<a href="#">GDTFSCMVGHEALPLAFTQK</a>
0.9	2519.214783	-0.017391	<a href="#">KMQQENMKPQEQLTLEPYER</a>
0.2	2519.196243	0.001149	<a href="#">EGSPHDNPTVQQIVQLSPVMQDT</a>

# {MATRIX} {SCIENCE} Mascot Search Results

## Peptide View

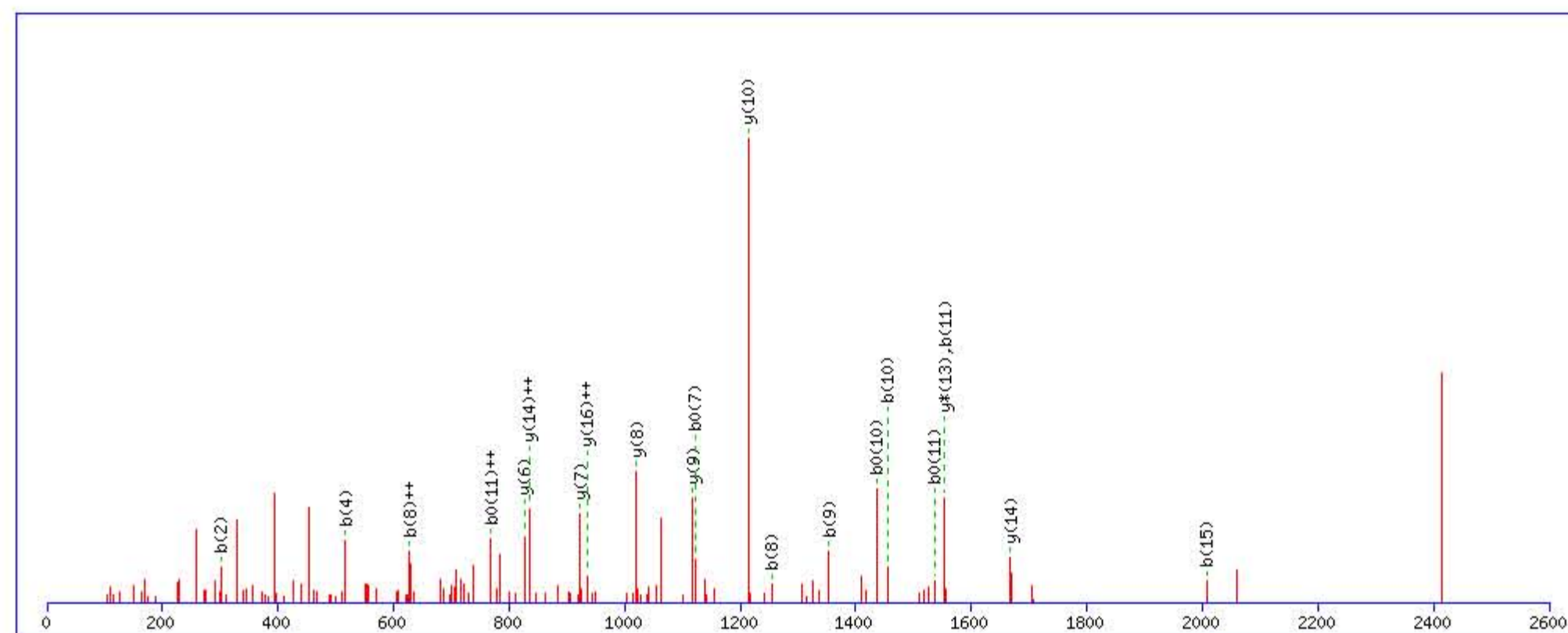
MS/MS Fragmentation of **HYTNPSQDVTVPCPVPPPPPCCHPR**  
 Found in **IGHA2\_HUMAN**, Ig alpha-2 chain C region OS=Homo sapiens GN=IGHA2 PE=1 SV=3

Match to Query 56325: 3219.465896 from(805.873750,4+) rtinseconds(1836) index(17931)  
 Title: Locus:1.1.1.3205.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

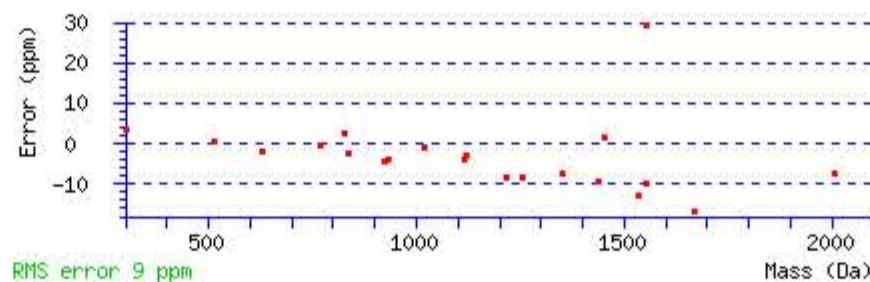
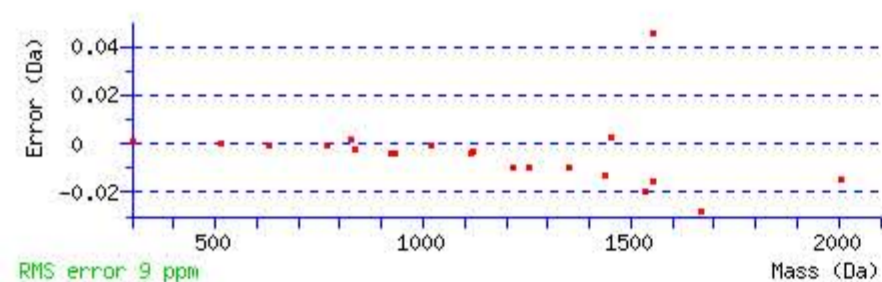
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3219.487518  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q7 : Biotin:Thermo-21345 (Q)  
 Ions Score: 33 Expect: 0.0049  
 Matches : 21/248 fragment ions using 37 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							25
2	<b>301.129517</b>	151.068397					Y	3083.435840	1542.221558	3066.409291	1533.708283	3065.425275	1533.216275	24
3	402.177196	201.592236			384.166631	192.586954	T	2920.372511	1460.689893	2903.345962	1452.176619	2902.361946	1451.684611	23
4	<b>516.220123</b>	258.613700	499.193574	250.100425	498.209558	249.608417	N	2819.324832	1410.166054	2802.298283	1401.652779	2801.314267	1401.160771	22
5	613.272887	307.140082	596.246338	298.626807	595.262322	298.134799	P	2705.281905	1353.144590	2688.255356	1344.631316	2687.271340	1344.139308	21
6	700.304915	350.656096	683.278366	342.142821	682.294350	341.650813	S	2608.229141	1304.618208	2591.202592	1296.104934	2590.218576	1295.612926	20
7	1139.530241	570.268759	1122.503692	561.755484	<b>1121.519676</b>	561.263476	Q	2521.197113	1261.102194	2504.170564	1252.588920	2503.186548	1252.096912	19
8	<b>1254.557184</b>	<b>627.782230</b>	1237.530635	619.268956	1236.546619	618.776948	D	2081.971787	1041.489531	2064.945238	1032.976257	2063.961222	1032.484249	18
9	<b>1353.625598</b>	677.316437	1336.599049	668.803163	1335.615033	668.311155	V	1966.944844	983.976060	1949.918295	975.462786	1948.934279	974.970778	17
10	<b>1454.673277</b>	727.840277	1437.646728	719.327002	<b>1436.662712</b>	718.834994	T	1867.876430	<b>934.441853</b>	1850.849881	925.928579	1849.865865	925.436571	16
11	<b>1553.741691</b>	777.374484	1536.715142	768.861209	<b>1535.731126</b>	<b>768.369201</b>	V	1766.828751	883.918014	1749.802202	875.404739			15
12	1650.794455	825.900866	1633.767906	817.387591	1632.783890	816.895583	P	<b>1667.760337</b>	<b>834.383806</b>	1650.733788	825.870532			14
13	1810.825104	905.916190	1793.798555	897.402916	1792.814539	896.910908	C	1570.707573	785.857424	<b>1553.681024</b>	777.344150			13
14	1907.877868	954.442572	1890.851319	945.929298	1889.867303	945.437290	P	1410.676924	705.842100	1393.650375	697.328825			12
15	<b>2006.946282</b>	1003.976779	1989.919733	995.463505	1988.935717	994.971497	V	1313.624160	657.315718	1296.597611	648.802443			11
16	2103.999046	1052.503161	2086.972497	1043.989887	2085.988481	1043.497879	P	<b>1214.555746</b>	607.781511	1197.529197	599.268236			10
17	2201.051810	1101.029543	2184.025261	1092.516269	2183.041245	1092.024261	P	<b>1117.502982</b>	559.255129	1100.476433	550.741854			9
18	2298.104574	1149.555925	2281.078025	1141.042651	2280.094009	1140.550643	P	<b>1020.450218</b>	510.728747	1003.423669	502.215472			8
19	2395.157338	1198.082307	2378.130789	1189.569033	2377.146773	1189.077025	P	<b>923.397454</b>	462.202365	906.370905	453.689090			7
20	2492.210102	1246.608689	2475.183553	1238.095415	2474.199537	1237.603407	P	<b>826.344690</b>	413.675983	809.318141	405.162708			6
21	2652.240751	1326.624014	2635.214202	1318.110739	2634.230186	1317.618731	C	729.291926	365.149601	712.265377	356.636326			5
22	2812.271400	1406.639338	2795.244851	1398.126063	2794.260835	1397.634055	C	569.261277	285.134276	552.234728	276.621002			4
23	2949.330312	1475.168794	2932.303763	1466.655519	2931.319747	1466.163511	H	409.230628	205.118952	392.204079	196.605677			3
24	3046.383076	1523.695176	3029.356527	1515.181901	3028.372511	1514.689893	P	272.171716	136.589496	255.145167	128.076221			2
25							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **HYTNPSQDVTVPCPVPPPPPCCHPR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
33.4	3219.487518	-0.021622	<a href="#">HYTNPSQDVTVPCPVPPPPPCCHPR</a>

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **TFPEIQR**

Found in **IGHD\_HUMAN**, Ig delta chain C region OS=Homo sapiens GN=IGHD PE=1 SV=2

Match to Query 17764: 1200.631168 from(601.322860,2+) rtinseconds(1967) index(60398)

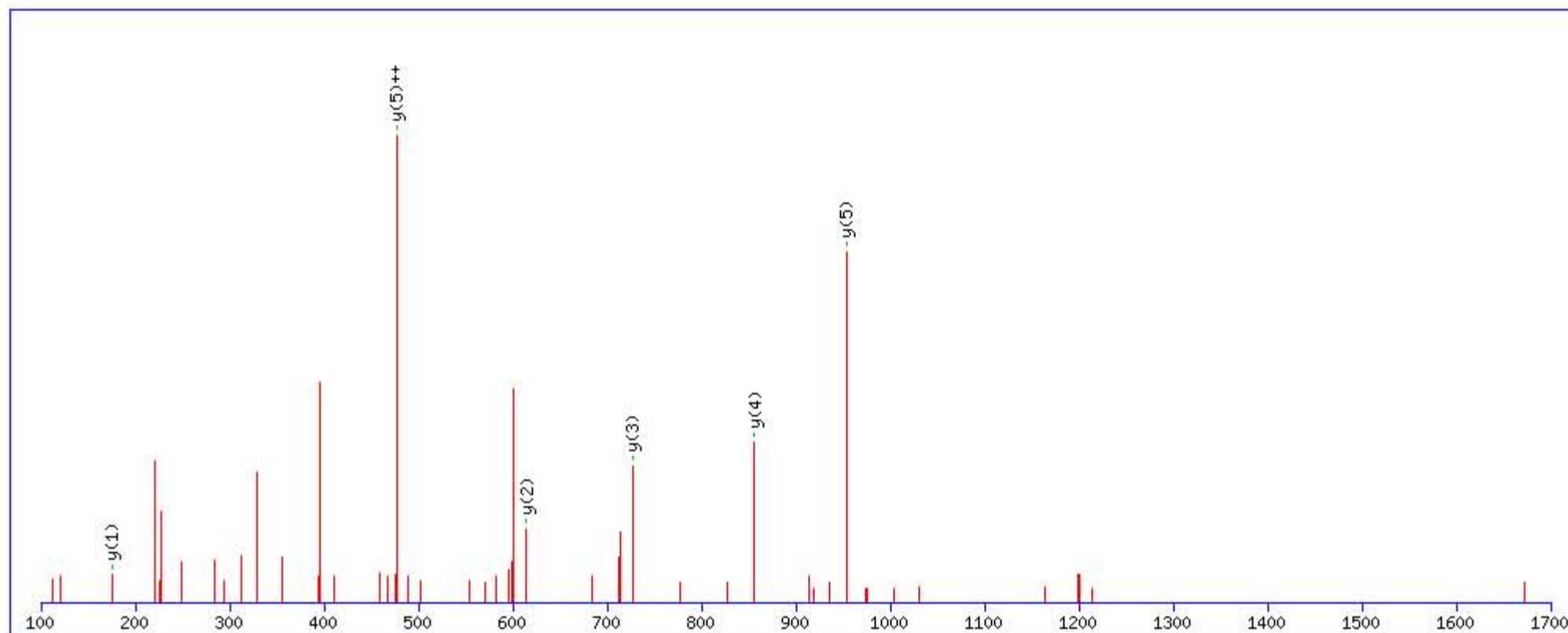
Title: Locus:1.1.1.1596.18 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1200.632507

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

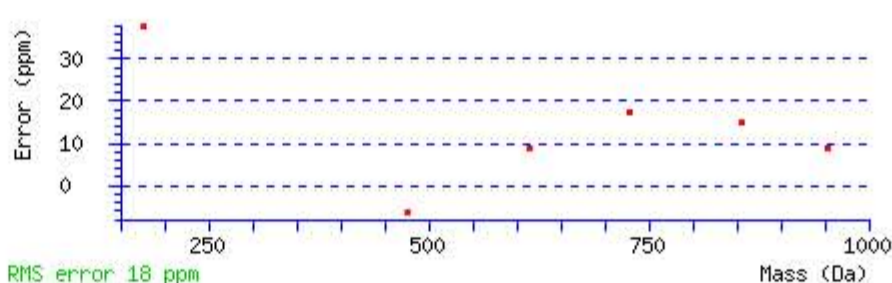
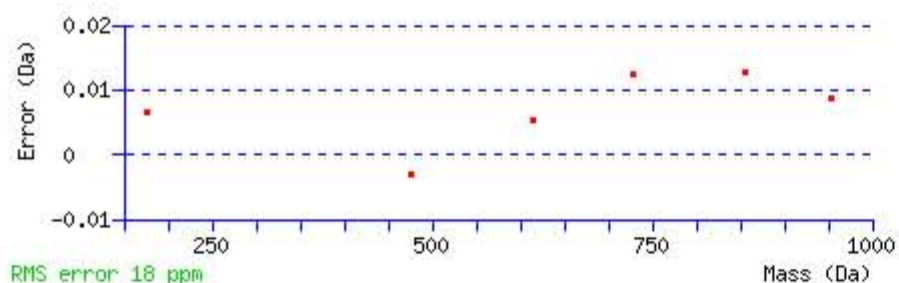
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 31 Expect: 0.0053

Matches : 6/56 fragment ions using 11 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							7
2	249.123369	125.065322			231.112804	116.060040	F	1100.592113	550.799695	1083.565564	542.286420	1082.581548	541.794412	6
3	346.176133	173.591704			328.165568	164.586422	P	953.523699	477.265488	936.497150	468.752213	935.513134	468.260205	5
4	475.218726	238.113001			457.208161	229.107719	E	856.470935	428.739106	839.444386	420.225831	838.460370	419.733823	4
5	588.302790	294.655033			570.292225	285.649751	I	727.428342	364.217809	710.401793	355.704535			3
6	1027.528116	514.267696	1010.501567	505.754422	1009.517551	505.262414	Q	614.344278	307.675777	597.317729	299.162503			2
7							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **TFPEIQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
31.1	1200.632507	-0.001339	<a href="#">TFPEIQR</a>
6.4	1200.628464	0.002704	<a href="#">LLQLQEMGNR</a>
0.2	1200.636353	-0.005185	<a href="#">TFTQKGNLHR</a>

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **EPAAQAPVK**

Found in **IGHD\_HUMAN**, Ig delta chain C region OS=Homo sapiens GN=IGHD PE=1 SV=2

Match to Query 18169: 1220.656608 from(611.335580,2+) rtinseconds(1478) index(15719)

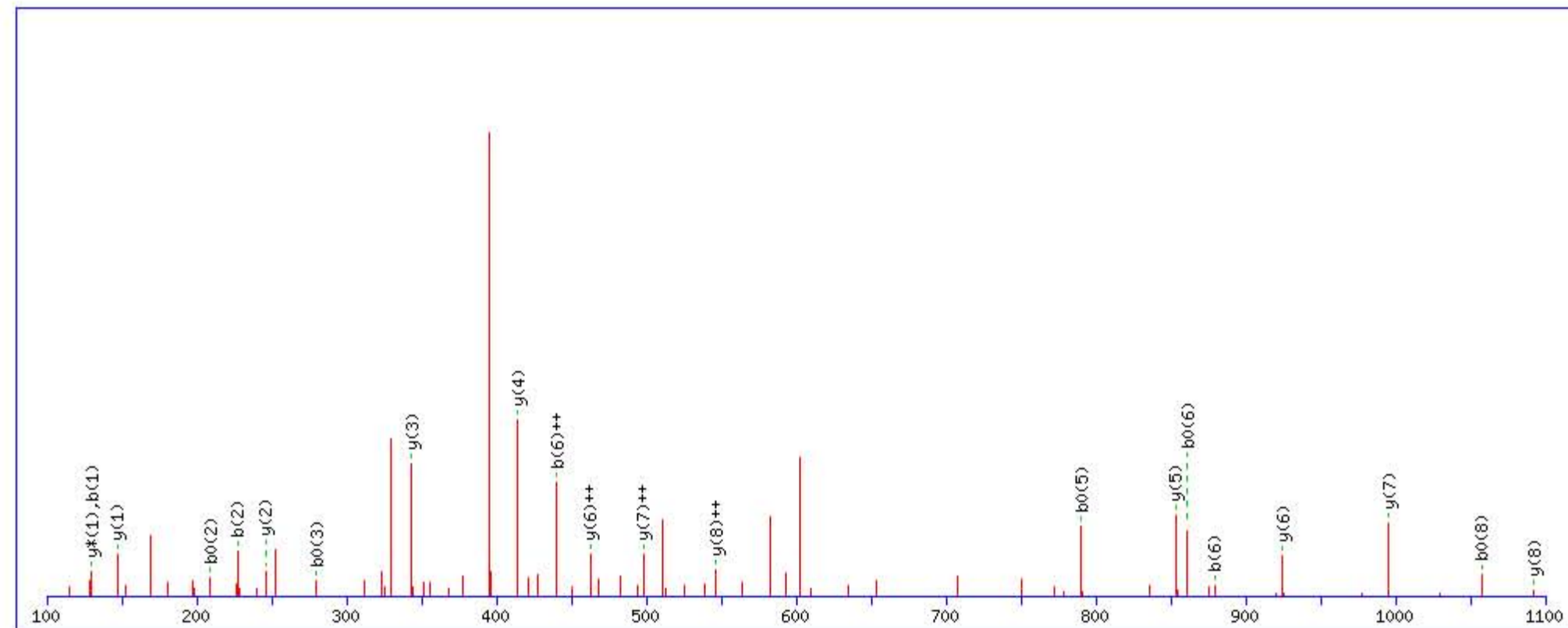
Title: Locus:1.1.1.3080.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1220.658707

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

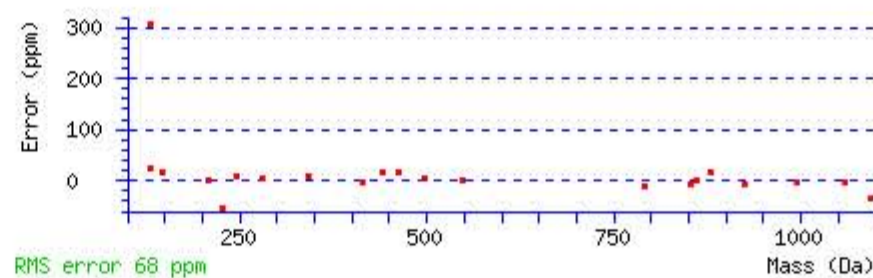
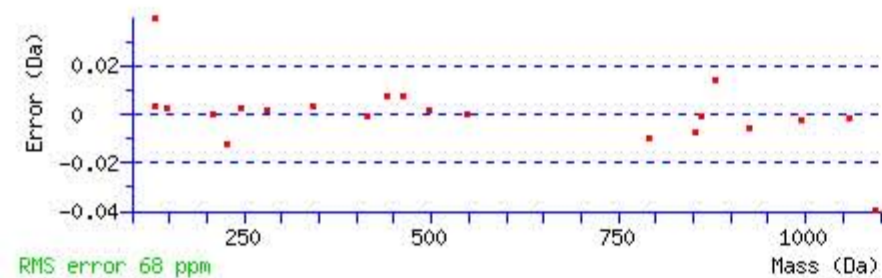
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 52 Expect: 0.00012

Matches : 21/72 fragment ions using 38 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E					9
2	227.102633	114.054954			209.092068	105.049672	P	1092.623414	546.815345	1075.596865	538.302071	8
3	298.139747	149.573512			280.129182	140.568229	A	995.570650	498.288963	978.544101	489.775689	7
4	369.176861	185.092068			351.166296	176.086786	A	924.533536	462.770406	907.506987	454.257132	6
5	808.402187	404.704732	791.375638	396.191457	790.391622	395.699449	Q	853.496422	427.251849	836.469873	418.738575	5
6	879.439301	440.223289	862.412752	431.710014	861.428736	431.218006	A	414.271096	207.639186	397.244547	199.125911	4
7	976.492065	488.749671	959.465516	480.236396	958.481500	479.744388	P	343.233982	172.120629	326.207433	163.607354	3
8	1075.560479	538.283878	1058.533930	529.770603	1057.549914	529.278595	V	246.181218	123.594247	229.154669	115.080972	2
9							K	147.112804	74.060040	130.086255	65.546765	1



NCBI BLAST search of **EPAAQAPVK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
51.7	1220.658707	-0.002099	<a href="#">EPAAQAPVK</a>
12.2	1220.658722	-0.002114	<a href="#">EQNVPVPK</a>
2.3	1220.651321	0.005287	<a href="#">GQVLIASSYGR</a>
1.9	1220.666580	-0.009972	<a href="#">EPAIVRFFSR</a>
0.9	1220.640076	0.016532	<a href="#">LLAEYTGAAQK</a>

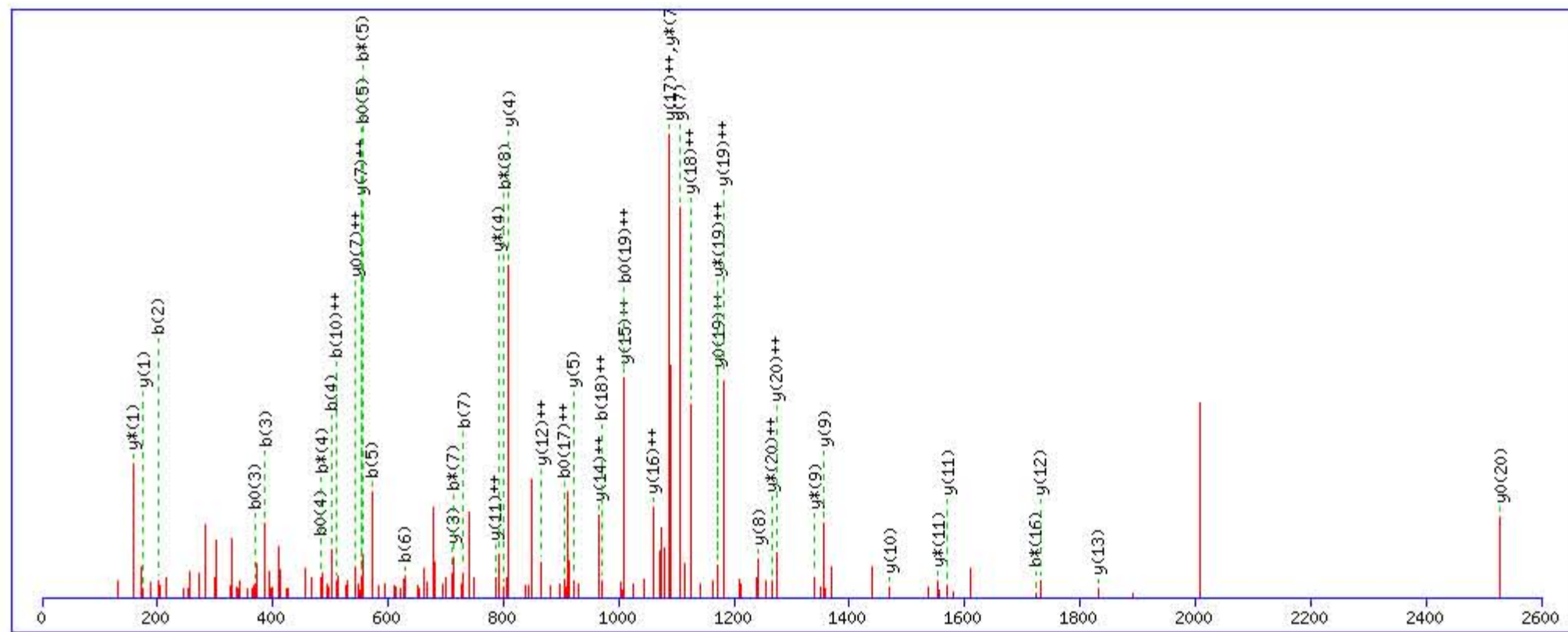
# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **SLWNAGTSVTCTLNHPSSLPPQR**  
 Found in **IGHD\_HUMAN**, Ig delta chain C region OS=Homo sapiens GN=IGHD PE=1 SV=2

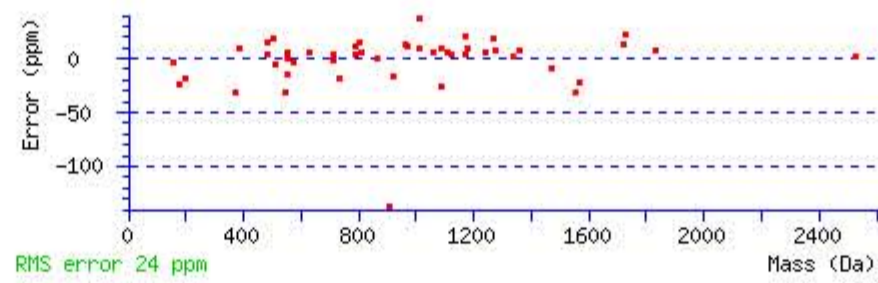
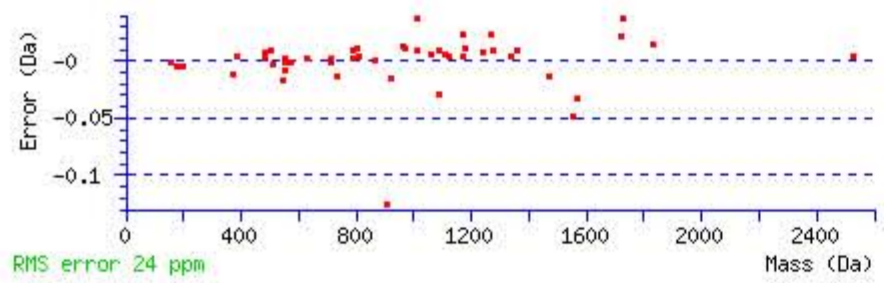
Match to Query 50896: 2746.385952 from(916.469260,3+) rtinseconds(2257) index(62050)  
 Title: Locus:1.1.1.1697.25 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from 0 to 2600 Da Full range  
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2746.368332  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q21 : Biotin:Thermo-21345 (Q)  
 Ions Score: 42 Expect: 0.0017  
 Matches : 49/236 fragment ions using 136 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							22
2	<b>201.123368</b>	101.065322			183.112803	92.060039	L	2660.343575	1330.675425	2643.317026	1322.162151	2642.333010	1321.670143	21
3	<b>387.202681</b>	194.104978			<b>369.192116</b>	185.099696	W	2547.259511	<b>1274.133393</b>	2530.232962	<b>1265.620119</b>	<b>2529.248946</b>	1265.128111	20
4	<b>501.245608</b>	251.126442	<b>484.219059</b>	242.613168	<b>483.235043</b>	242.121160	N	2361.180198	<b>1181.093737</b>	2344.153649	<b>1172.580462</b>	2343.169633	<b>1172.088454</b>	19
5	<b>572.282722</b>	286.644999	<b>555.256173</b>	278.131725	<b>554.272157</b>	277.639717	A	2247.137271	<b>1124.072273</b>	2230.110722	1115.558999	2229.126706	1115.066991	18
6	<b>629.304186</b>	315.155731	612.277637	306.642457	611.293621	306.150449	G	2176.100157	<b>1088.553716</b>	2159.073608	1080.040442	2158.089592	1079.548434	17
7	<b>730.351865</b>	365.679571	<b>713.325316</b>	357.166296	712.341300	356.674288	T	2119.078693	<b>1060.042984</b>	2102.052144	1051.529710	2101.068128	1051.037702	16
8	817.383893	409.195585	<b>800.357344</b>	400.682310	799.373328	400.190302	S	2018.031014	<b>1009.519145</b>	2001.004465	1001.005871	2000.020449	1000.513863	15
9	916.452307	458.729792	899.425758	450.216517	898.441742	449.724509	V	1930.998986	<b>966.003131</b>	1913.972437	957.489857	1912.988421	956.997849	14
10	1017.499986	<b>509.253631</b>	1000.473437	500.740357	999.489421	500.248349	T	<b>1831.930572</b>	916.468924	1814.904023	907.955650	1813.920007	907.463642	13
11	1177.530635	589.268956	1160.504086	580.755681	1159.520070	580.263673	C	<b>1730.882893</b>	<b>865.945085</b>	1713.856344	857.431810	1712.872328	856.939802	12
12	1278.578314	639.792795	1261.551765	631.279521	1260.567749	630.787513	T	<b>1570.852244</b>	<b>785.929760</b>	<b>1553.825695</b>	777.416486	1552.841679	776.924478	11
13	1391.662378	696.334827	1374.635829	687.821553	1373.651813	687.329545	L	<b>1469.804565</b>	735.405921	1452.778016	726.892646	1451.794000	726.400638	10
14	1505.705305	753.356291	1488.678756	744.843016	1487.694740	744.351008	N	<b>1356.720501</b>	678.863889	<b>1339.693952</b>	670.350614	1338.709936	669.858606	9
15	1642.764217	821.885746	1625.737668	813.372472	1624.753652	812.880464	H	<b>1242.677574</b>	621.842425	1225.651025	613.329151	1224.667009	612.837143	8
16	1739.816981	870.412128	<b>1722.790432</b>	861.898854	1721.806416	861.406846	P	<b>1105.618662</b>	<b>553.312969</b>	<b>1088.592113</b>	544.799695	1087.608097	<b>544.307687</b>	7
17	1826.849009	913.928143	1809.822460	905.414868	1808.838444	904.922860	S	1008.565898	504.786587	991.539349	496.273313	990.555333	495.781305	6
18	1939.933073	<b>970.470174</b>	1922.906524	961.956900	1921.922508	961.464892	L	<b>921.533870</b>	461.270573	904.507321	452.757299			5
19	2036.985837	1018.996557	2019.959288	1010.483282	2018.975272	<b>1009.991274</b>	P	<b>808.449806</b>	404.728541	<b>791.423257</b>	396.215267			4
20	2134.038601	1067.522938	2117.012052	1059.009664	2116.028036	1058.517656	P	<b>711.397042</b>	356.202159	694.370493	347.688885			3
21	2573.263927	1287.135601	2556.237378	1278.622327	2555.253362	1278.130319	Q	614.344278	307.675777	597.317729	299.162503			2
22							R	<b>175.118952</b>	88.063114	<b>158.092403</b>	79.549839			1



NCBI BLAST search of **SLWNAGTSVTCTLNHPSSLPPQR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
42.4	2746.368332	0.017620	<b>SLWNAGTSVTCTLNHPSSLPPQR</b>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **NQVSLTCLVK**

Found in **IGHG1\_HUMAN**, Ig gamma-1 chain C region OS=Homo sapiens GN=IGHG1 PE=1 SV=1

Match to Query 26441: 1471.795828 from(736.905190,2+) rtinseconds(2245) index(61966)

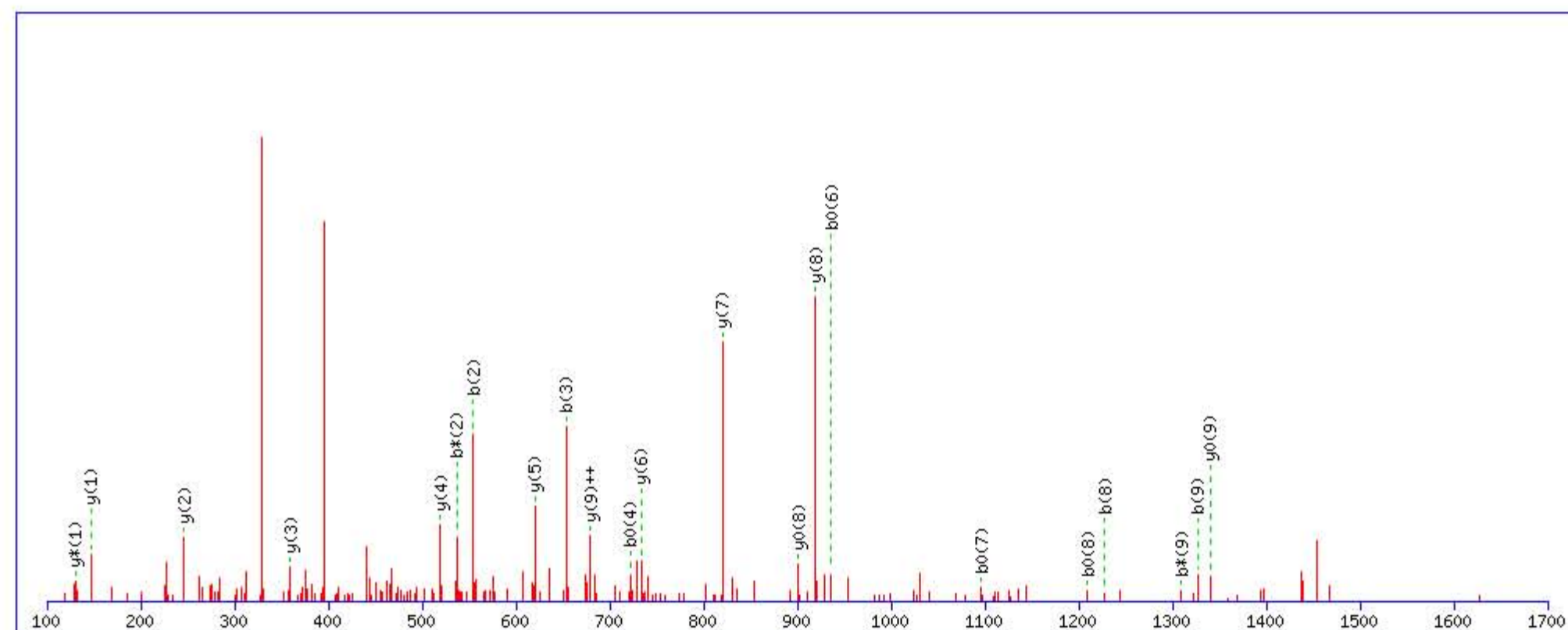
Title: Locus:1.1.1.1693.20 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1471.789093

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

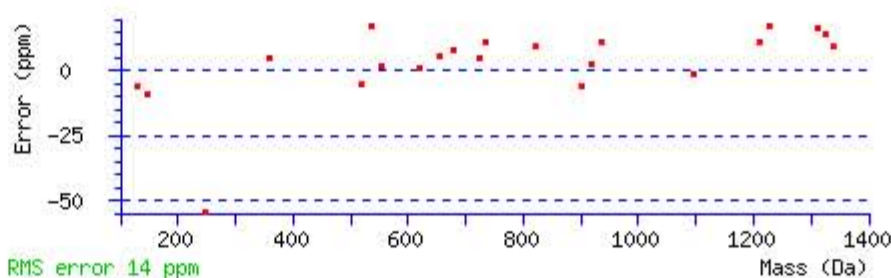
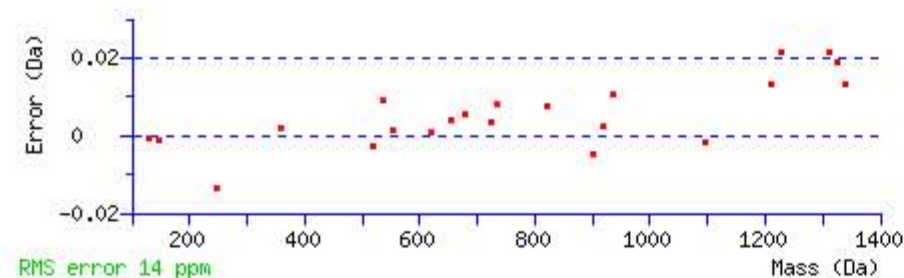
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 46 Expect: 0.00024

Matches : 22/94 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							10
2	<b>554.275529</b>	277.641403	<b>537.248980</b>	269.128128			Q	1358.753442	<b>679.880359</b>	1341.726893	671.367085	<b>1340.742877</b>	670.875076	9
3	<b>653.343943</b>	327.175610	636.317394	318.662335			V	<b>919.528116</b>	460.267696	902.501567	451.754421	<b>901.517551</b>	451.262413	8
4	740.375971	370.691623	723.349422	362.178349	<b>722.365406</b>	361.686341	S	<b>820.459702</b>	410.733489	803.433153	402.220215	802.449137	401.728207	7
5	853.460035	427.233656	836.433486	418.720381	835.449470	418.228373	L	<b>733.427674</b>	367.217475	716.401125	358.704201	715.417109	358.212193	6
6	954.507714	477.757495	937.481165	469.244220	<b>936.497149</b>	468.752212	T	<b>620.343610</b>	310.675443	603.317061	302.162169	602.333045	301.670161	5
7	1114.538363	557.772819	1097.511814	549.259545	<b>1096.527798</b>	548.767537	C	<b>519.295931</b>	260.151604	502.269382	251.638329			4
8	<b>1227.622427</b>	614.314851	1210.595878	605.801577	<b>1209.611862</b>	605.309569	L	<b>359.265282</b>	180.136279	342.238733	171.623004			3
9	<b>1326.690841</b>	663.849058	<b>1309.664292</b>	655.335784	1308.680276	654.843776	V	<b>246.181218</b>	123.594247	229.154669	115.080973			2
10							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **NQVSLTCLVK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
45.5	1471.789093	0.006735	<a href="#">NQVSLTCLVK</a>
6.4	1471.803467	-0.007639	<a href="#">EKQGPLLDLFGQK</a>
5.1	1471.796921	-0.001093	<a href="#">YLIAACQHLQKK</a>
4.1	1471.797592	-0.001764	<a href="#">KYFWDRAFLVK</a>
3.8	1471.777847	0.017981	<a href="#">QLDMELVSVK</a>
3.0	1471.806808	-0.010980	<a href="#">ESLLQIPRIEMK</a>
2.8	1471.793106	0.002722	<a href="#">QPFMVDILAK</a>
2.5	1471.799438	-0.003610	<a href="#">EVELDRLRDTVK</a>
2.2	1471.814713	-0.018885	<a href="#">RQVIVGTWGESLK</a>
0.1	1471.788162	0.007666	<a href="#">ELEAEKLQKEQK</a>

# MASCOT SEARCH RESULTS

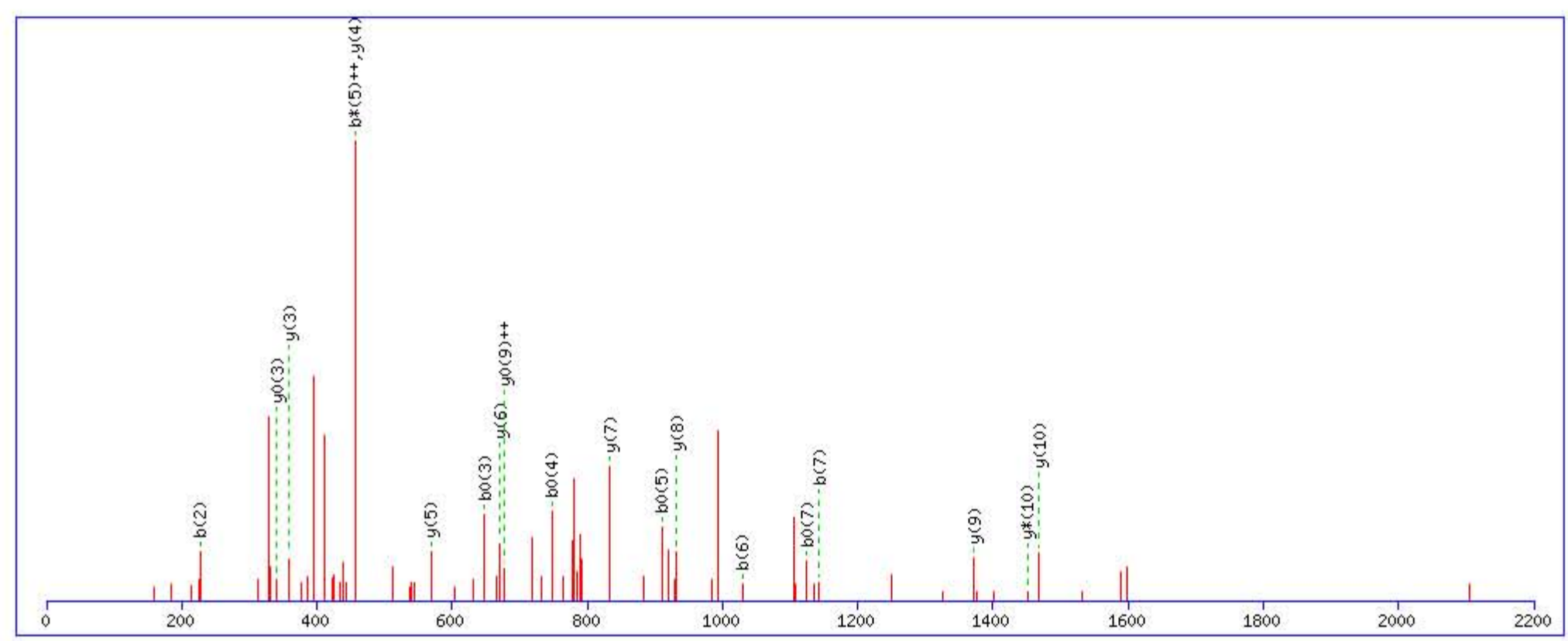
## Peptide View

MS/MS Fragmentation of **EPQVYTLPPSR**

Found in **IGHG1\_HUMAN**, Ig gamma-1 chain C region OS=Homo sapiens GN=IGHG1 PE=1 SV=1

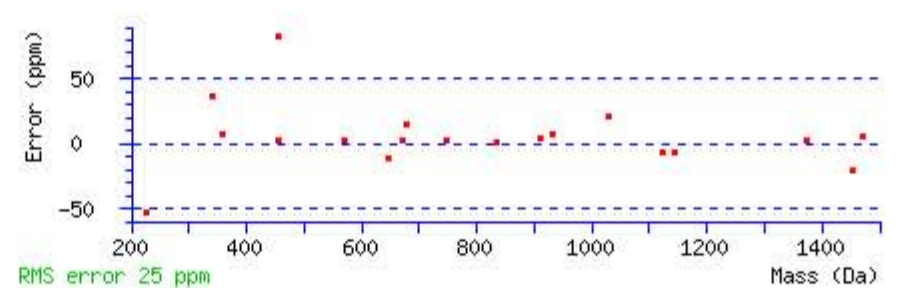
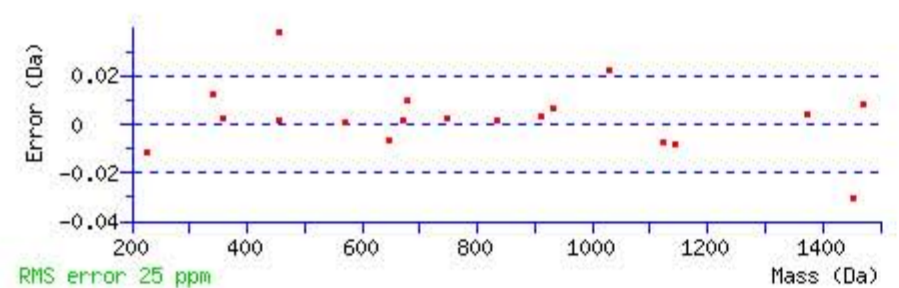
Match to Query 30487: 1596.834408 from(799.424480,2+) rtinseconds(2036) index(60816)  
 Title: Locus:1.1.1.1620.15 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1596.833389  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q3 : Biotin:Thermo-21345 (Q)  
 Ions Score: 33 Expect: 0.0012  
 Matches : 19/114 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							11
2	<b>227.102633</b>	114.054954			209.092068	105.049672	P	<b>1468.798084</b>	734.902680	<b>1451.771535</b>	726.389406	1450.787519	725.897398	10
3	666.327959	333.667618	649.301410	325.154343	<b>648.317394</b>	324.662335	Q	<b>1371.745320</b>	686.376298	1354.718771	677.863024	1353.734755	<b>677.371016</b>	9
4	765.396373	383.201825	748.369824	374.688550	<b>747.385808</b>	374.196542	V	<b>932.519994</b>	466.763635	915.493445	458.250361	914.509429	457.758353	8
5	928.459702	464.733489	911.433153	<b>456.220215</b>	<b>910.449137</b>	455.728207	Y	<b>833.451580</b>	417.229428	816.425031	408.716154	815.441015	408.224146	7
6	<b>1029.507381</b>	515.257329	1012.480832	506.744054	1011.496816	506.252046	T	<b>670.388251</b>	335.697764	653.361702	327.184489	652.377686	326.692481	6
7	<b>1142.591445</b>	571.799361	1125.564896	563.286086	<b>1124.580880</b>	562.794078	L	<b>569.340572</b>	285.173924	552.314023	276.660650	551.330007	276.168642	5
8	1239.644209	620.325743	1222.617660	611.812468	1221.633644	611.320460	P	<b>456.256508</b>	228.631892	439.229959	220.118618	438.245943	219.626610	4
9	1336.696973	668.852125	1319.670424	660.338850	1318.686408	659.846842	P	<b>359.203744</b>	180.105510	342.177195	171.592236	<b>341.193179</b>	171.100228	3
10	1423.729001	712.368139	1406.702452	703.854864	1405.718436	703.362856	S	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **EPQVYTLPPSR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
33.3	1596.833389	0.001019	<a href="#">EPQVYTLPPSR</a>
2.3	1596.818115	0.016293	<a href="#">QEPEEKVVSNK</a>
0.7	1596.851135	-0.016727	<a href="#">LLFHGENEALDKV</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **WQQGNVFSCSVMEALHNHYTQK**

Found in **IGHG1\_HUMAN**, Ig gamma-1 chain C region OS=Homo sapiens GN=IGHG1 PE=1 SV=1

Match to Query 54772: 3111.419220 from(623.291120,5+) rtinseconds(2066) index(32261)

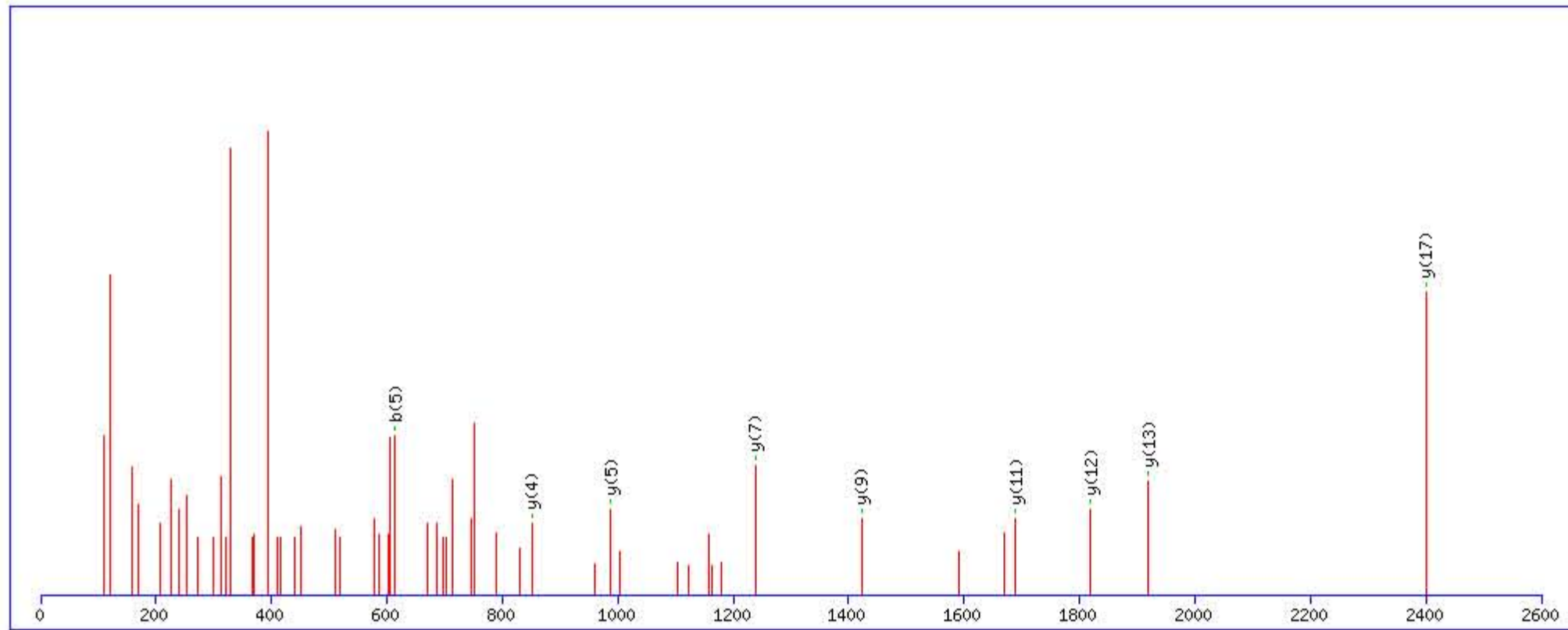
Title: Locus:1.1.1.3383.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3111.426590

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

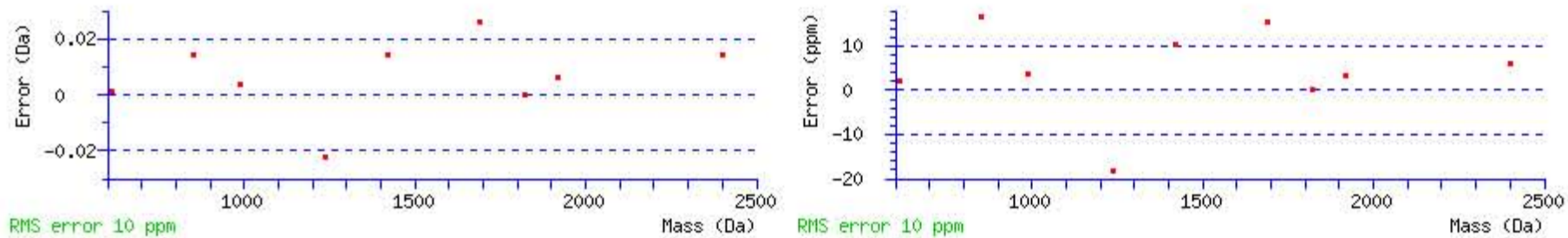
Variable modifications:

Q22 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.0061

Matches : 9/244 fragment ions using 18 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	187.086589	94.046932					W							23
2	315.145167	158.076222	298.118618	149.562947			Q	2926.354551	1463.680913	2909.328002	1455.167639	2908.343986	1454.675631	22
3	443.203745	222.105511	426.177196	213.592236			Q	2798.295973	1399.651624	2781.269424	1391.138350	2780.285408	1390.646342	21
4	500.225209	250.616243	483.198660	242.102968			G	2670.237395	1335.622335	2653.210846	1327.109061	2652.226830	1326.617053	20
5	<b>614.268136</b>	307.637706	597.241587	299.124432			N	2613.215931	1307.111603	2596.189382	1298.598329	2595.205366	1298.106321	19
6	713.336550	357.171913	696.310001	348.658639			V	2499.173004	1250.090140	2482.146455	1241.576865	2481.162439	1241.084857	18
7	860.404964	430.706120	843.378415	422.192845			F	<b>2400.104590</b>	1200.555933	2383.078041	1192.042658	2382.094025	1191.550650	17
8	947.436992	474.222134	930.410443	465.708859	929.426427	465.216851	S	2253.036176	1127.021726	2236.009627	1118.508451	2235.025611	1118.016443	16
9	1107.467641	554.237459	1090.441092	545.724184	1089.457076	545.232176	C	2166.004148	1083.505712	2148.977599	1074.992437	2147.993583	1074.500429	15
10	1194.499669	597.753473	1177.473120	589.240198	1176.489104	588.748190	S	2005.973499	1003.490388	1988.946950	994.977113	1987.962934	994.485105	14
11	1293.568083	647.287680	1276.541534	638.774405	1275.557518	638.282397	V	<b>1918.941471</b>	959.974373	1901.914922	951.461099	1900.930906	950.969091	13
12	1424.608568	712.807922	1407.582019	704.294648	1406.598003	703.802640	M	<b>1819.873057</b>	910.440166	1802.846508	901.926892	1801.862492	901.434884	12
13	1561.667480	781.337378	1544.640931	772.824104	1543.656915	772.332096	H	<b>1688.832572</b>	844.919924	1671.806023	836.406649	1670.822007	835.914641	11
14	1690.710073	845.858675	1673.683524	837.345400	1672.699508	836.853392	E	1551.773660	776.390468	1534.747111	767.877193	1533.763095	767.385185	10
15	1761.747187	881.377231	1744.720638	872.863957	1743.736622	872.371949	A	<b>1422.731067</b>	711.869171	1405.704518	703.355897	1404.720502	702.863889	9
16	1874.831251	937.919263	1857.804702	929.405989	1856.820686	928.913981	L	1351.693953	676.350615	1334.667404	667.837340	1333.683388	667.345332	8
17	2011.890163	1006.448719	1994.863614	997.935445	1993.879598	997.443437	H	<b>1238.609889</b>	619.808583	1221.583340	611.295308	1220.599324	610.803300	7
18	2125.933090	1063.470183	2108.906541	1054.956908	2107.922525	1054.464900	N	1101.550977	551.279127	1084.524428	542.765852	1083.540412	542.273844	6
19	2262.992002	1131.999639	2245.965453	1123.486364	2244.981437	1122.994356	H	<b>987.508050</b>	494.257663	970.481501	485.744389	969.497485	485.252381	5
20	2426.055331	1213.531303	2409.028782	1205.018029	2408.044766	1204.526021	Y	<b>850.449138</b>	425.728207	833.422589	417.214933	832.438573	416.722925	4
21	2527.103010	1264.055143	2510.076461	1255.541868	2509.092445	1255.049860	T	687.385809	344.196543	670.359260	335.683268	669.375244	335.191260	3
22	2966.328336	1483.667806	2949.301787	1475.154531	2948.317771	1474.662523	Q	586.338130	293.672703	569.311581	285.159429			2
23							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **WQQGNVFSCSVMEALHNHYTQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
33.0	3111.426590	-0.007370	<u>WQQGNVFSCSVMEALHNHYTQK</u>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **NQVSLTCLVK**

Found in **IGHG1\_HUMAN**, Ig gamma-1 chain C region OS=Homo sapiens GN=IGHG1 PE=1 SV=1

Match to Query 26441: 1471.795828 from(736.905190,2+) rtinseconds(2245) index(61966)

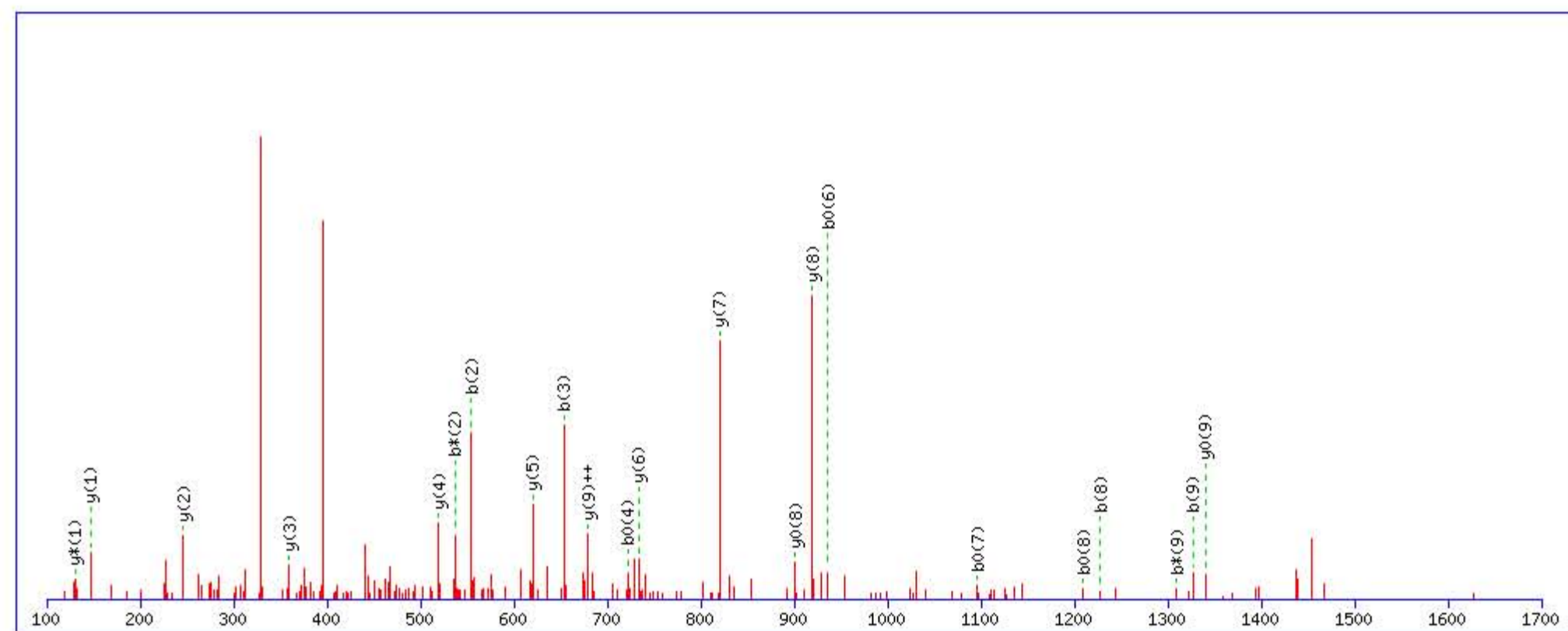
Title: Locus:1.1.1.1693.20 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1471.789093

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

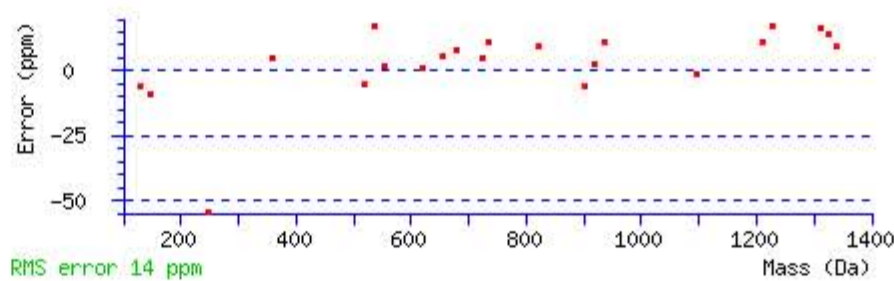
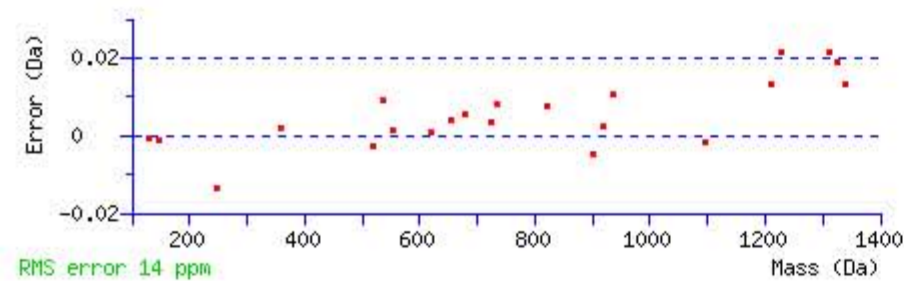
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 46 Expect: 0.00024

Matches : 22/94 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							10
2	<b>554.275529</b>	277.641403	<b>537.248980</b>	269.128128			Q	1358.753442	<b>679.880359</b>	1341.726893	671.367085	<b>1340.742877</b>	670.875076	9
3	<b>653.343943</b>	327.175610	636.317394	318.662335			V	<b>919.528116</b>	460.267696	902.501567	451.754421	<b>901.517551</b>	451.262413	8
4	740.375971	370.691623	723.349422	362.178349	<b>722.365406</b>	361.686341	S	<b>820.459702</b>	410.733489	803.433153	402.220215	802.449137	401.728207	7
5	853.460035	427.233656	836.433486	418.720381	835.449470	418.228373	L	<b>733.427674</b>	367.217475	716.401125	358.704201	715.417109	358.212193	6
6	954.507714	477.757495	937.481165	469.244220	<b>936.497149</b>	468.752212	T	<b>620.343610</b>	310.675443	603.317061	302.162169	602.333045	301.670161	5
7	1114.538363	557.772819	1097.511814	549.259545	<b>1096.527798</b>	548.767537	C	<b>519.295931</b>	260.151604	502.269382	251.638329			4
8	<b>1227.622427</b>	614.314851	1210.595878	605.801577	<b>1209.611862</b>	605.309569	L	<b>359.265282</b>	180.136279	342.238733	171.623004			3
9	<b>1326.690841</b>	663.849058	<b>1309.664292</b>	655.335784	1308.680276	654.843776	V	<b>246.181218</b>	123.594247	229.154669	115.080973			2
10							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **NQVSLTCLVK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
45.5	1471.789093	0.006735	<a href="#">NQVSLTCLVK</a>
6.4	1471.803467	-0.007639	<a href="#">EKQGPLLDLFGQK</a>
5.1	1471.796921	-0.001093	<a href="#">YLIAACQHLQKK</a>
4.1	1471.797592	-0.001764	<a href="#">KYFWDRAFLVK</a>
3.8	1471.777847	0.017981	<a href="#">QLDMELVSVK</a>
3.0	1471.806808	-0.010980	<a href="#">ESLLQIPRIEMK</a>
2.8	1471.793106	0.002722	<a href="#">QPFMVDILAK</a>
2.5	1471.799438	-0.003610	<a href="#">EVELDRLRDTVK</a>
2.2	1471.814713	-0.018885	<a href="#">RQVIVGTWGESLK</a>
0.1	1471.788162	0.007666	<a href="#">ELEAEKLQKEQK</a>

# MASCOT SEARCH RESULTS

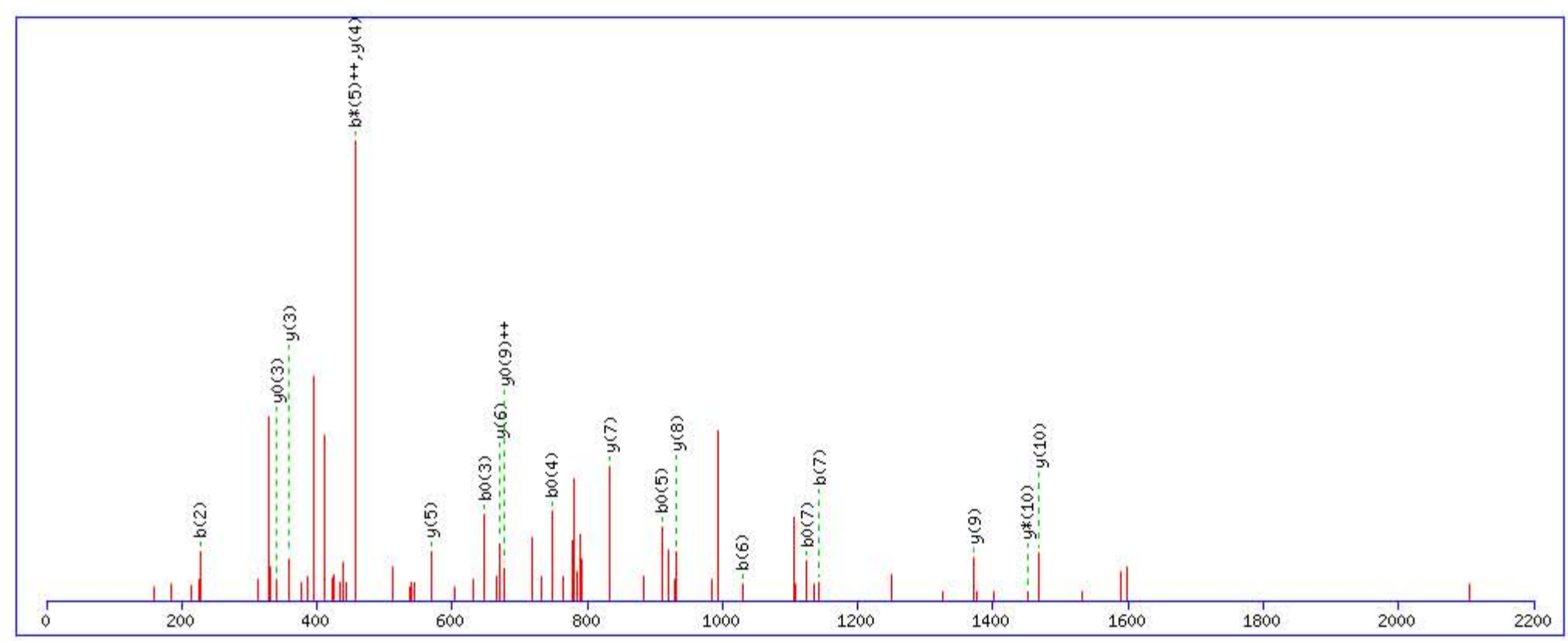
## Peptide View

MS/MS Fragmentation of **EPQVYTLPPSR**

Found in **IGHG1\_HUMAN**, Ig gamma-1 chain C region OS=Homo sapiens GN=IGHG1 PE=1 SV=1

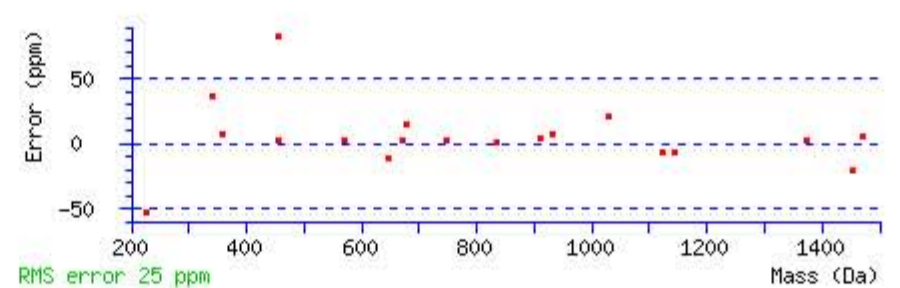
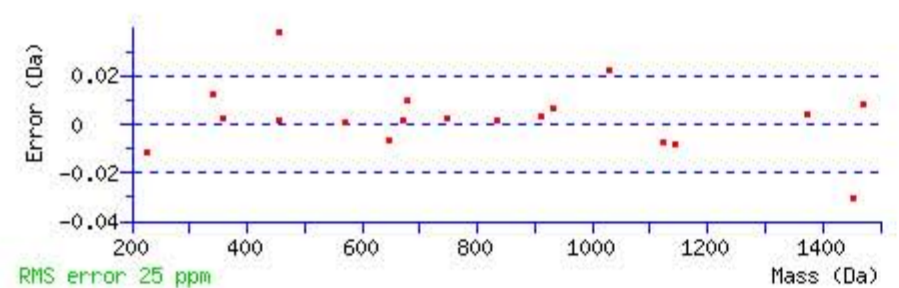
Match to Query 30487: 1596.834408 from(799.424480,2+) rtinseconds(2036) index(60816)  
 Title: Locus:1.1.1.1620.15 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1596.833389  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q3 : Biotin:Thermo-21345 (Q)  
 Ions Score: 33 Expect: 0.0012  
 Matches : 19/114 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							11
2	<b>227.102633</b>	114.054954			209.092068	105.049672	P	<b>1468.798084</b>	734.902680	<b>1451.771535</b>	726.389406	1450.787519	725.897398	10
3	666.327959	333.667618	649.301410	325.154343	<b>648.317394</b>	324.662335	Q	<b>1371.745320</b>	686.376298	1354.718771	677.863024	1353.734755	<b>677.371016</b>	9
4	765.396373	383.201825	748.369824	374.688550	<b>747.385808</b>	374.196542	V	<b>932.519994</b>	466.763635	915.493445	458.250361	914.509429	457.758353	8
5	928.459702	464.733489	911.433153	<b>456.220215</b>	<b>910.449137</b>	455.728207	Y	<b>833.451580</b>	417.229428	816.425031	408.716154	815.441015	408.224146	7
6	<b>1029.507381</b>	515.257329	1012.480832	506.744054	1011.496816	506.252046	T	<b>670.388251</b>	335.697764	653.361702	327.184489	652.377686	326.692481	6
7	<b>1142.591445</b>	571.799361	1125.564896	563.286086	<b>1124.580880</b>	562.794078	L	<b>569.340572</b>	285.173924	552.314023	276.660650	551.330007	276.168642	5
8	1239.644209	620.325743	1222.617660	611.812468	1221.633644	611.320460	P	<b>456.256508</b>	228.631892	439.229959	220.118618	438.245943	219.626610	4
9	1336.696973	668.852125	1319.670424	660.338850	1318.686408	659.846842	P	<b>359.203744</b>	180.105510	342.177195	171.592236	<b>341.193179</b>	171.100228	3
10	1423.729001	712.368139	1406.702452	703.854864	1405.718436	703.362856	S	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **EPQVYTLPPSR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
33.3	1596.833389	0.001019	<a href="#">EPQVYTLPPSR</a>
2.3	1596.818115	0.016293	<a href="#">QEPEEKVVS NK</a>
0.7	1596.851135	-0.016727	<a href="#">LLFHGENEALDKV</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **WQQGNVFSCSVMEALHNHYTQK**

Found in **IGHG1\_HUMAN**, Ig gamma-1 chain C region OS=Homo sapiens GN=IGHG1 PE=1 SV=1

Match to Query 54772: 3111.419220 from(623.291120,5+) rtinseconds(2066) index(32261)

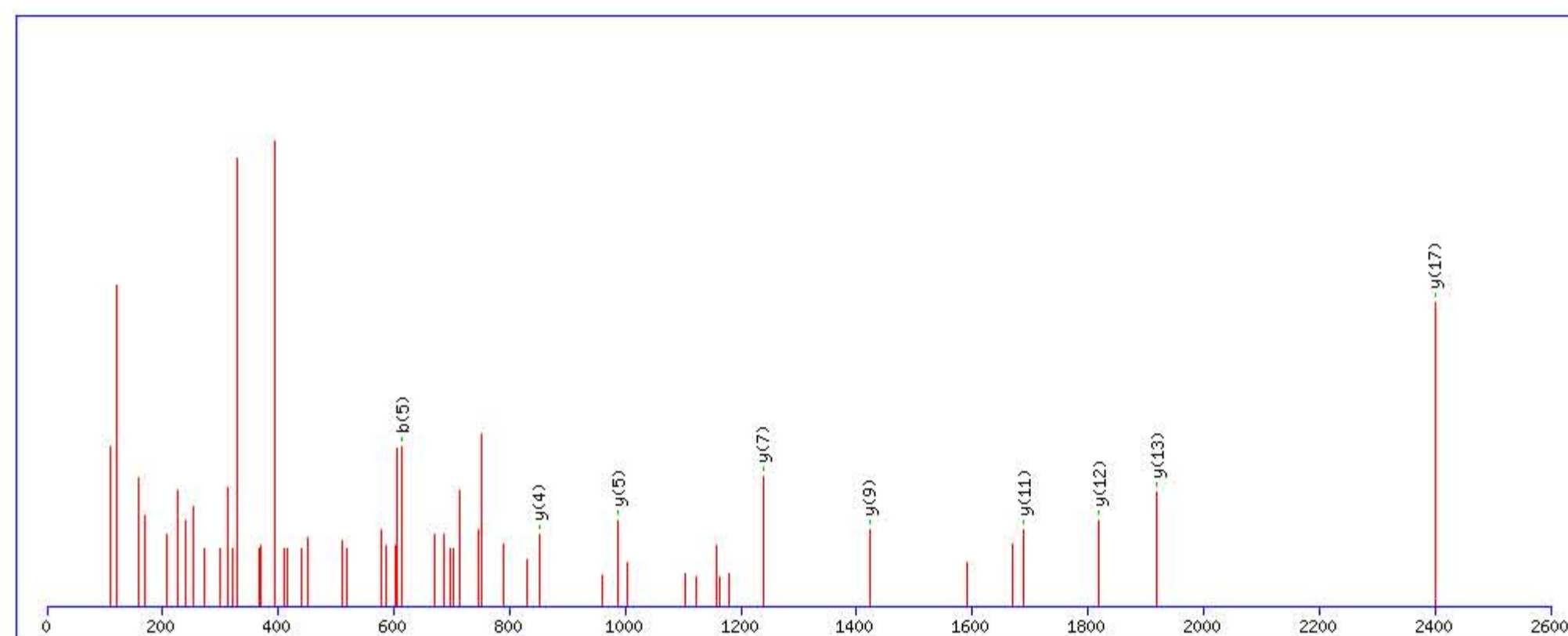
Title: Locus:1.1.1.3383.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3111.426590

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

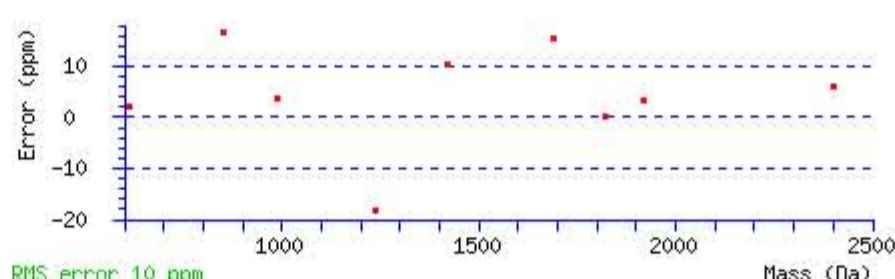
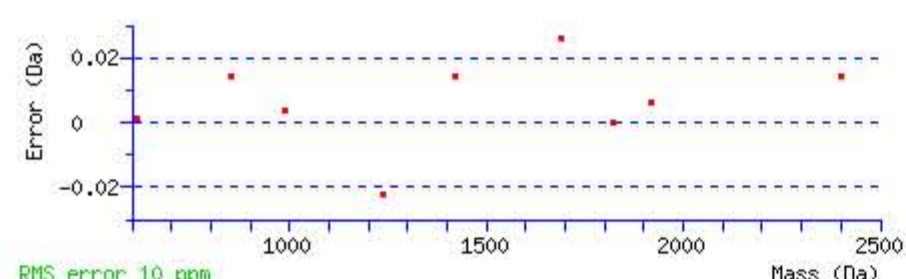
Variable modifications:

Q22 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.0061

Matches : 9/244 fragment ions using 18 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	187.086589	94.046932					W							23
2	315.145167	158.076222	298.118618	149.562947			Q	2926.354551	1463.680913	2909.328002	1455.167639	2908.343986	1454.675631	22
3	443.203745	222.105511	426.177196	213.592236			Q	2798.295973	1399.651624	2781.269424	1391.138350	2780.285408	1390.646342	21
4	500.225209	250.616243	483.198660	242.102968			G	2670.237395	1335.622335	2653.210846	1327.109061	2652.226830	1326.617053	20
5	<b>614.268136</b>	307.637706	597.241587	299.124432			N	2613.215931	1307.111603	2596.189382	1298.598329	2595.205366	1298.106321	19
6	713.336550	357.171913	696.310001	348.658639			V	2499.173004	1250.090140	2482.146455	1241.576865	2481.162439	1241.084857	18
7	860.404964	430.706120	843.378415	422.192845			F	<b>2400.104590</b>	1200.555933	2383.078041	1192.042658	2382.094025	1191.550650	17
8	947.436992	474.222134	930.410443	465.708859	929.426427	465.216851	S	2253.036176	1127.021726	2236.009627	1118.508451	2235.025611	1118.016443	16
9	1107.467641	554.237459	1090.441092	545.724184	1089.457076	545.232176	C	2166.004148	1083.505712	2148.977599	1074.992437	2147.993583	1074.500429	15
10	1194.499669	597.753473	1177.473120	589.240198	1176.489104	588.748190	S	2005.973499	1003.490388	1988.946950	994.977113	1987.962934	994.485105	14
11	1293.568083	647.287680	1276.541534	638.774405	1275.557518	638.282397	V	<b>1918.941471</b>	959.974373	1901.914922	951.461099	1900.930906	950.969091	13
12	1424.608568	712.807922	1407.582019	704.294648	1406.598003	703.802640	M	<b>1819.873057</b>	910.440166	1802.846508	901.926892	1801.862492	901.434884	12
13	1561.667480	781.337378	1544.640931	772.824104	1543.656915	772.332096	H	<b>1688.832572</b>	844.919924	1671.806023	836.406649	1670.822007	835.914641	11
14	1690.710073	845.858675	1673.683524	837.345400	1672.699508	836.853392	E	1551.773660	776.390468	1534.747111	767.877193	1533.763095	767.385185	10
15	1761.747187	881.377231	1744.720638	872.863957	1743.736622	872.371949	A	<b>1422.731067</b>	711.869171	1405.704518	703.355897	1404.720502	702.863889	9
16	1874.831251	937.919263	1857.804702	929.405989	1856.820686	928.913981	L	1351.693953	676.350615	1334.667404	667.837340	1333.683388	667.345332	8
17	2011.890163	1006.448719	1994.863614	997.935445	1993.879598	997.443437	H	<b>1238.609889</b>	619.808583	1221.583340	611.295308	1220.599324	610.803300	7
18	2125.933090	1063.470183	2108.906541	1054.956908	2107.922525	1054.464900	N	1101.550977	551.279127	1084.524428	542.765852	1083.540412	542.273844	6
19	2262.992002	1131.999639	2245.965453	1123.486364	2244.981437	1122.994356	H	<b>987.508050</b>	494.257663	970.481501	485.744389	969.497485	485.252381	5
20	2426.055331	1213.531303	2409.028782	1205.018029	2408.044766	1204.526021	Y	<b>850.449138</b>	425.728207	833.422589	417.214933	832.438573	416.722925	4
21	2527.103010	1264.055143	2510.076461	1255.541868	2509.092445	1255.049860	T	687.385809	344.196543	670.359260	335.683268	669.375244	335.191260	3
22	2966.328336	1483.667806	2949.301787	1475.154531	2948.317771	1474.662523	Q	586.338130	293.672703	569.311581	285.159429			2
23							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **WQQGNVFSCSVMEALHNHYTQK**  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
33.0	3111.426590	-0.007370	<b>WQQGNVFSCSVMEALHNHYTQK</b>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **NQVSLTCLVK**

Found in **IGHG1\_HUMAN**, Ig gamma-1 chain C region OS=Homo sapiens GN=IGHG1 PE=1 SV=1

Match to Query 26441: 1471.795828 from(736.905190,2+) rtinseconds(2245) index(61966)

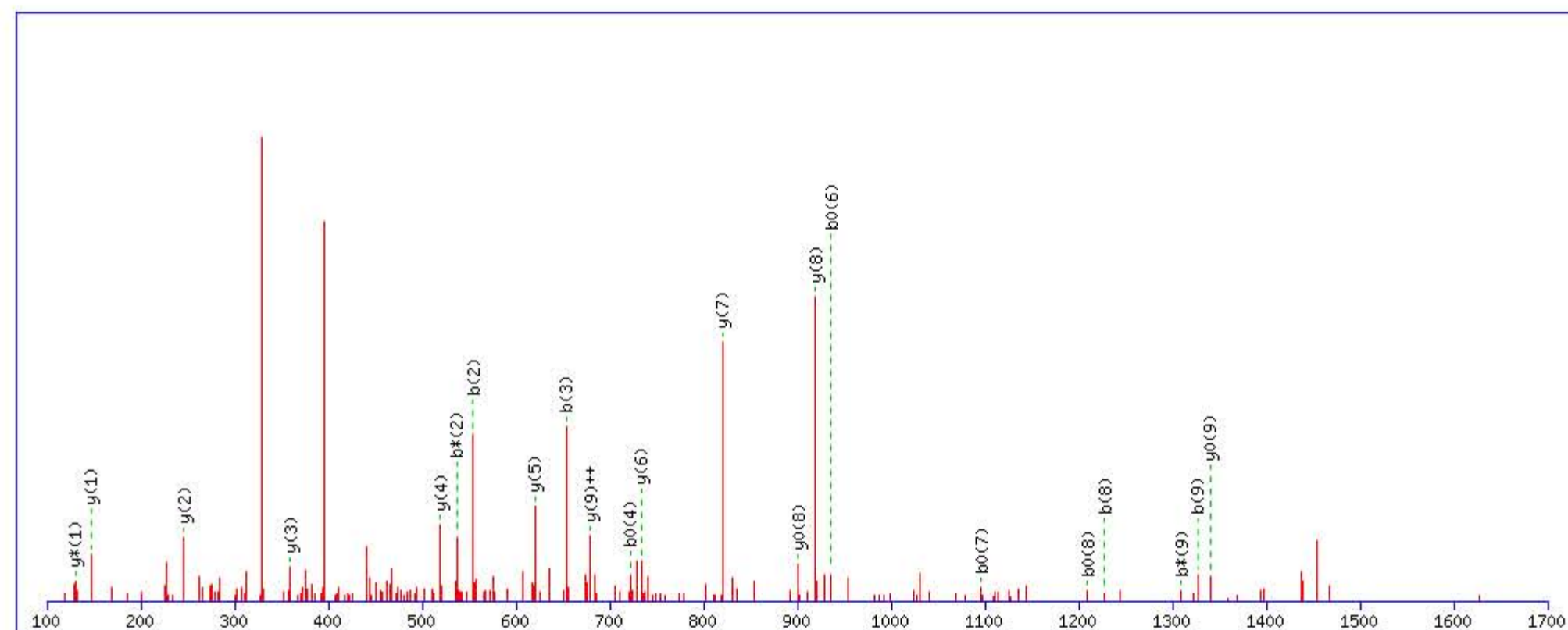
Title: Locus:1.1.1.1693.20 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1471.789093

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

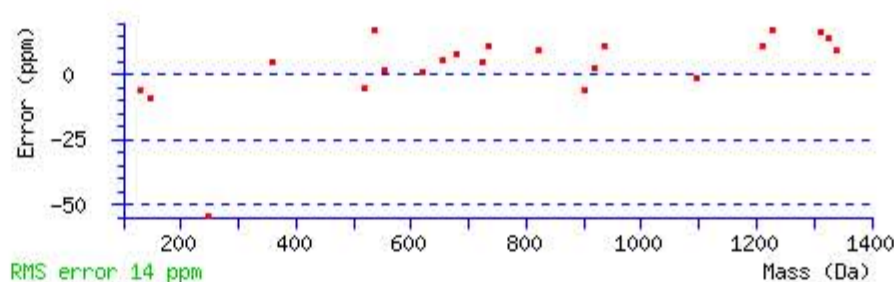
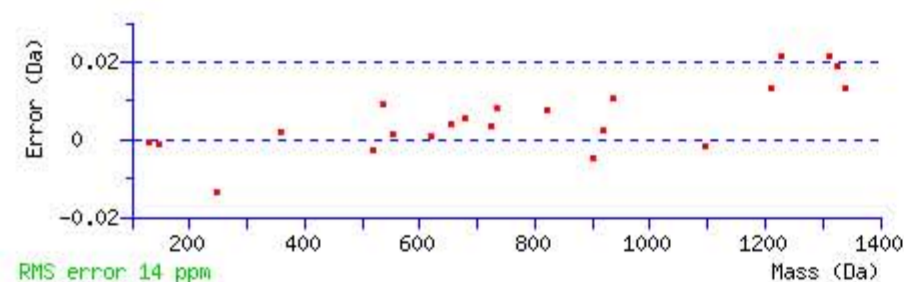
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 46 Expect: 0.00024

Matches : 22/94 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							10
2	<b>554.275529</b>	277.641403	<b>537.248980</b>	269.128128			Q	1358.753442	<b>679.880359</b>	1341.726893	671.367085	<b>1340.742877</b>	670.875076	9
3	<b>653.343943</b>	327.175610	636.317394	318.662335			V	<b>919.528116</b>	460.267696	902.501567	451.754421	<b>901.517551</b>	451.262413	8
4	740.375971	370.691623	723.349422	362.178349	<b>722.365406</b>	361.686341	S	<b>820.459702</b>	410.733489	803.433153	402.220215	802.449137	401.728207	7
5	853.460035	427.233656	836.433486	418.720381	835.449470	418.228373	L	<b>733.427674</b>	367.217475	716.401125	358.704201	715.417109	358.212193	6
6	954.507714	477.757495	937.481165	469.244220	<b>936.497149</b>	468.752212	T	<b>620.343610</b>	310.675443	603.317061	302.162169	602.333045	301.670161	5
7	1114.538363	557.772819	1097.511814	549.259545	<b>1096.527798</b>	548.767537	C	<b>519.295931</b>	260.151604	502.269382	251.638329			4
8	<b>1227.622427</b>	614.314851	1210.595878	605.801577	<b>1209.611862</b>	605.309569	L	<b>359.265282</b>	180.136279	342.238733	171.623004			3
9	<b>1326.690841</b>	663.849058	<b>1309.664292</b>	655.335784	1308.680276	654.843776	V	<b>246.181218</b>	123.594247	229.154669	115.080973			2
10							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **NQVSLTCLVK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
45.5	1471.789093	0.006735	<a href="#">NQVSLTCLVK</a>
6.4	1471.803467	-0.007639	<a href="#">EKQGPLLDLFGQK</a>
5.1	1471.796921	-0.001093	<a href="#">YLIAACQHLQKK</a>
4.1	1471.797592	-0.001764	<a href="#">KYFWDR AFLVK</a>
3.8	1471.777847	0.017981	<a href="#">QLDMELVSVK</a>
3.0	1471.806808	-0.010980	<a href="#">ESLLQIPRIEMK</a>
2.8	1471.793106	0.002722	<a href="#">QPFMVDILAK</a>
2.5	1471.799438	-0.003610	<a href="#">EVELDRLRDTVK</a>
2.2	1471.814713	-0.018885	<a href="#">RQVIVGTWGESLK</a>
0.1	1471.788162	0.007666	<a href="#">ELEAEKLQKEQK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EPQVYTLPPSR**

Found in **IGHG1\_HUMAN**, Ig gamma-1 chain C region OS=Homo sapiens GN=IGHG1 PE=1 SV=1

Match to Query 30487: 1596.834408 from(799.424480,2+) rtinseconds(2036) index(60816)

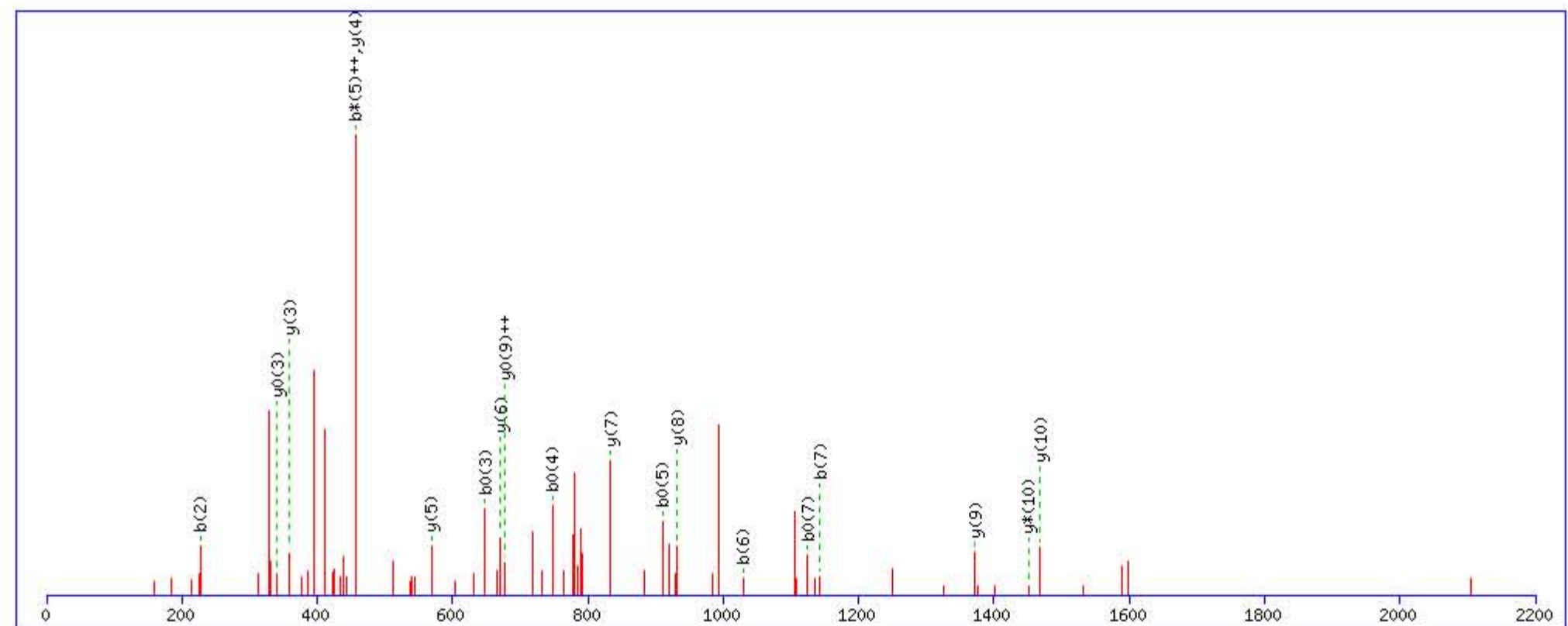
Title: Locus:1.1.1.1620.15 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1596.833389

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

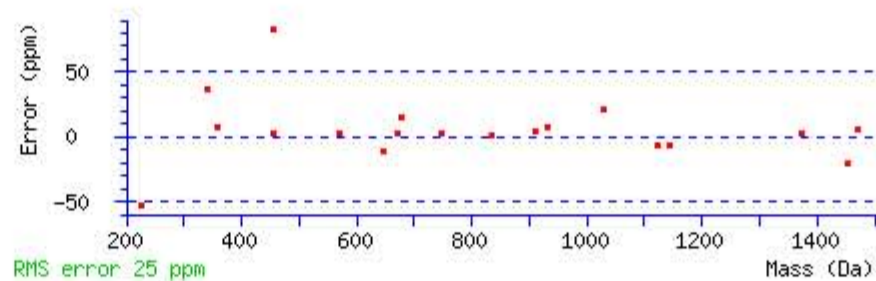
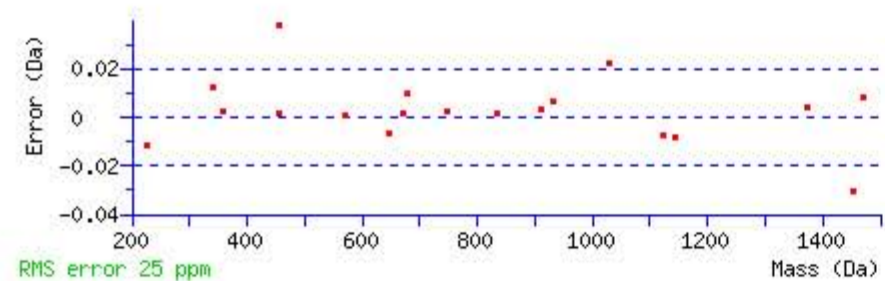
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.0012

Matches : 19/114 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							11
2	<b>227.102633</b>	114.054954			209.092068	105.049672	P	<b>1468.798084</b>	734.902680	<b>1451.771535</b>	726.389406	1450.787519	725.897398	10
3	666.327959	333.667618	649.301410	325.154343	<b>648.317394</b>	324.662335	Q	<b>1371.745320</b>	686.376298	1354.718771	677.863024	1353.734755	<b>677.371016</b>	9
4	765.396373	383.201825	748.369824	374.688550	<b>747.385808</b>	374.196542	V	<b>932.519994</b>	466.763635	915.493445	458.250361	914.509429	457.758353	8
5	928.459702	464.733489	911.433153	<b>456.220215</b>	<b>910.449137</b>	455.728207	Y	<b>833.451580</b>	417.229428	816.425031	408.716154	815.441015	408.224146	7
6	<b>1029.507381</b>	515.257329	1012.480832	506.744054	1011.496816	506.252046	T	<b>670.388251</b>	335.697764	653.361702	327.184489	652.377686	326.692481	6
7	<b>1142.591445</b>	571.799361	1125.564896	563.286086	<b>1124.580880</b>	562.794078	L	<b>569.340572</b>	285.173924	552.314023	276.660650	551.330007	276.168642	5
8	1239.644209	620.325743	1222.617660	611.812468	1221.633644	611.320460	P	<b>456.256508</b>	228.631892	439.229959	220.118618	438.245943	219.626610	4
9	1336.696973	668.852125	1319.670424	660.338850	1318.686408	659.846842	P	<b>359.203744</b>	180.105510	342.177195	171.592236	<b>341.193179</b>	171.100228	3
10	1423.729001	712.368139	1406.702452	703.854864	1405.718436	703.362856	S	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **EPQVYTLPPSR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
33.3	1596.833389	0.001019	<a href="#">EPQVYTLPPSR</a>
2.3	1596.818115	0.016293	<a href="#">QEPEEKVVS NK</a>
0.7	1596.851135	-0.016727	<a href="#">LLFHGENEALDKV</a>

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



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **NQVSLTCLVK**

Found in **IGHG1\_HUMAN**, Ig gamma-1 chain C region OS=Homo sapiens GN=IGHG1 PE=1 SV=1

Match to Query 26441: 1471.795828 from(736.905190,2+) rtinseconds(2245) index(61966)

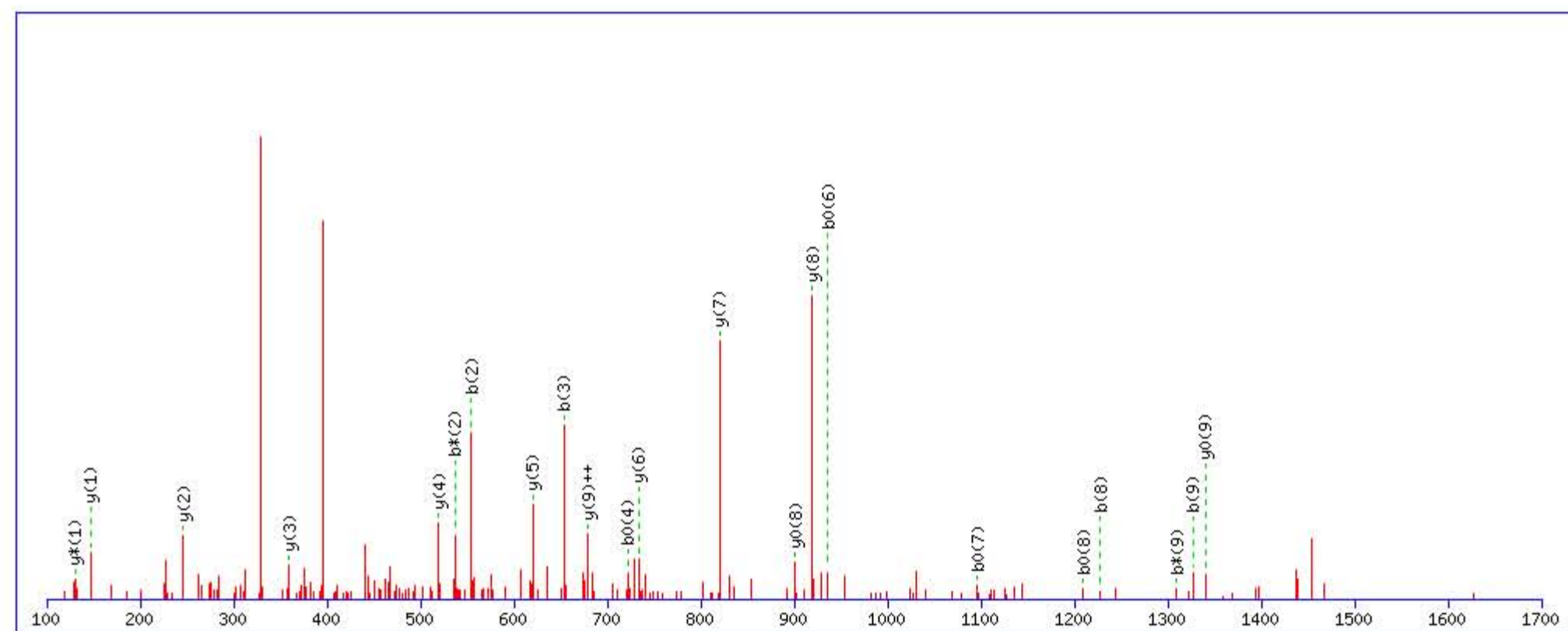
Title: Locus:1.1.1.1693.20 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1471.789093

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

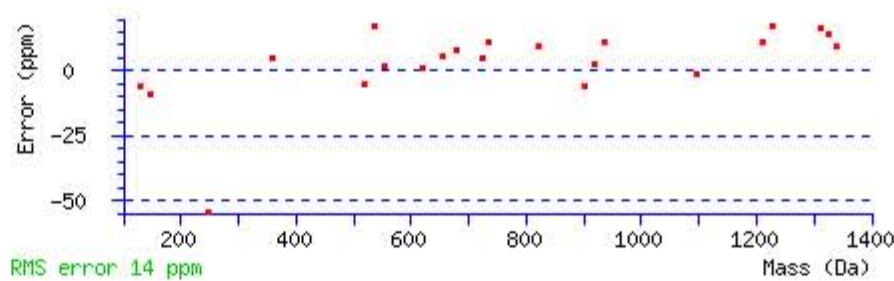
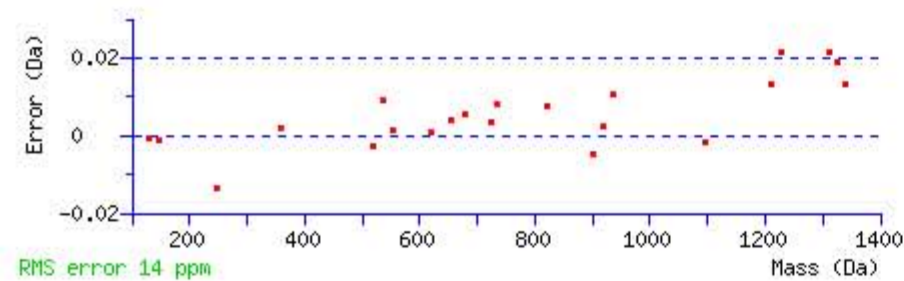
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 46 Expect: 0.00024

Matches : 22/94 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							10
2	<b>554.275529</b>	277.641403	<b>537.248980</b>	269.128128			Q	1358.753442	<b>679.880359</b>	1341.726893	671.367085	<b>1340.742877</b>	670.875076	9
3	<b>653.343943</b>	327.175610	636.317394	318.662335			V	<b>919.528116</b>	460.267696	902.501567	451.754421	<b>901.517551</b>	451.262413	8
4	740.375971	370.691623	723.349422	362.178349	<b>722.365406</b>	361.686341	S	<b>820.459702</b>	410.733489	803.433153	402.220215	802.449137	401.728207	7
5	853.460035	427.233656	836.433486	418.720381	835.449470	418.228373	L	<b>733.427674</b>	367.217475	716.401125	358.704201	715.417109	358.212193	6
6	954.507714	477.757495	937.481165	469.244220	<b>936.497149</b>	468.752212	T	<b>620.343610</b>	310.675443	603.317061	302.162169	602.333045	301.670161	5
7	1114.538363	557.772819	1097.511814	549.259545	<b>1096.527798</b>	548.767537	C	<b>519.295931</b>	260.151604	502.269382	251.638329			4
8	<b>1227.622427</b>	614.314851	1210.595878	605.801577	<b>1209.611862</b>	605.309569	L	<b>359.265282</b>	180.136279	342.238733	171.623004			3
9	<b>1326.690841</b>	663.849058	<b>1309.664292</b>	655.335784	1308.680276	654.843776	V	<b>246.181218</b>	123.594247	229.154669	115.080973			2
10							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **NQVSLTCLVK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
45.5	1471.789093	0.006735	<a href="#">NQVSLTCLVK</a>
6.4	1471.803467	-0.007639	<a href="#">EKQGPLLDLFGQK</a>
5.1	1471.796921	-0.001093	<a href="#">YLIAACQHLQKK</a>
4.1	1471.797592	-0.001764	<a href="#">KYFWDRAFLVK</a>
3.8	1471.777847	0.017981	<a href="#">QLDMELVSVK</a>
3.0	1471.806808	-0.010980	<a href="#">ESLLQIPRIEMK</a>
2.8	1471.793106	0.002722	<a href="#">QPFMVDILAK</a>
2.5	1471.799438	-0.003610	<a href="#">EVELDRLRDTVK</a>
2.2	1471.814713	-0.018885	<a href="#">RQVIVGTWGESLK</a>
0.1	1471.788162	0.007666	<a href="#">ELEAEKLQKEQK</a>

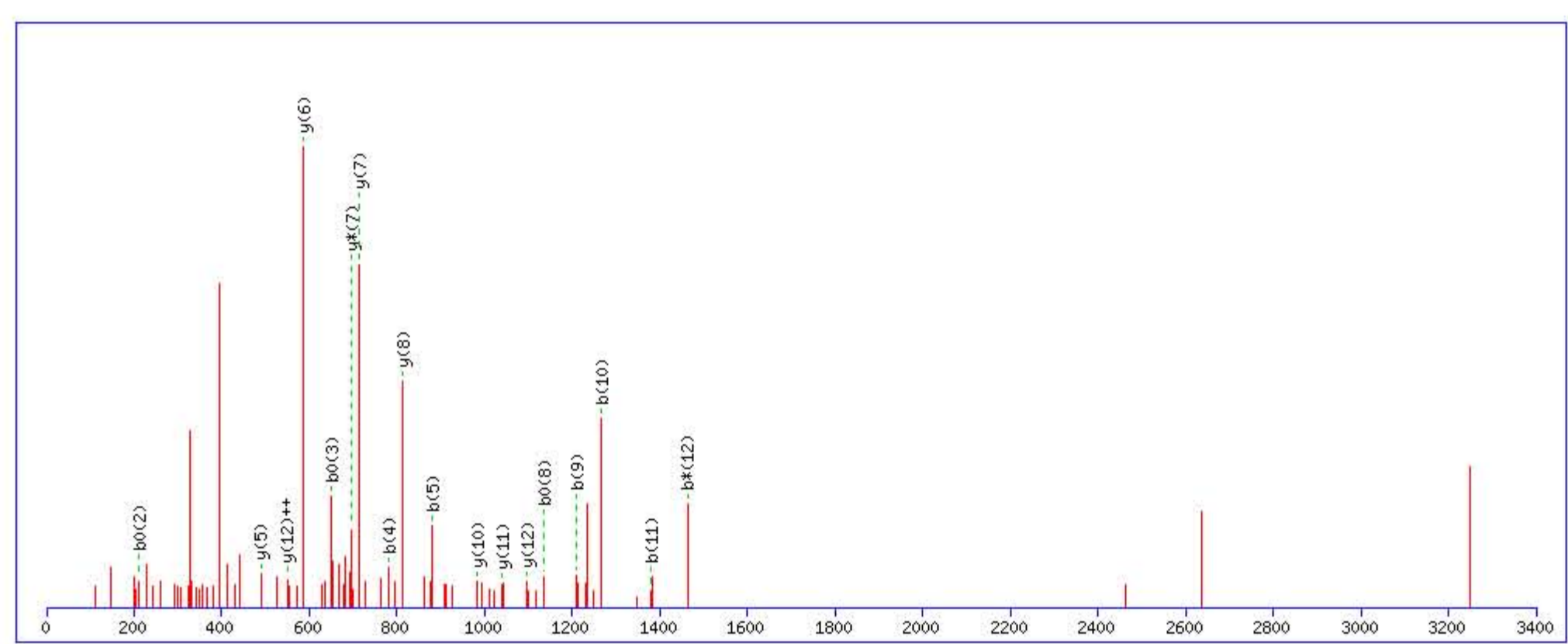
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EVQLVESGGGLVQPGGSLR**  
 Found in **HV305\_HUMAN**, Ig heavy chain V-III region BRO OS=Homo sapiens PE=1 SV=1

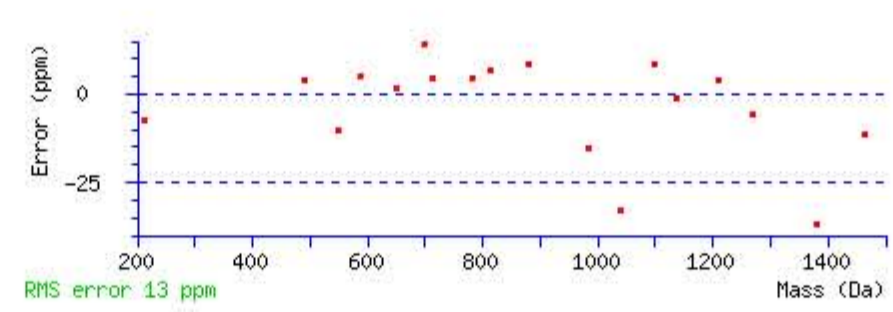
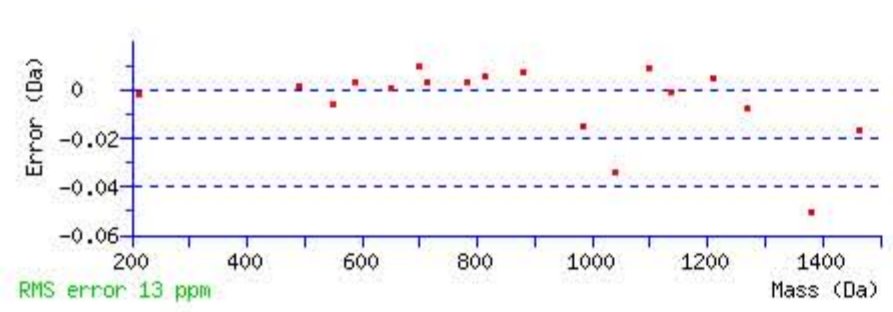
Match to Query 43131: 2192.151792 from(731.724540,3+) rtinseconds(2236) index(33283)  
 Title: Locus:1.1.1.3442.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2192.162354  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q3 : Biotin:Thermo-21345 (Q)  
 Ions Score: 30 Expect: 0.0018  
 Matches : 18/208 fragment ions using 39 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							19
2	229.118283	115.062780			211.107718	106.057497	V	2064.127023	1032.567149	2047.100474	1024.053875	2046.116458	1023.561867	18
3	668.343609	334.675443	651.317060	326.162168	650.333044	325.670160	Q	1965.058609	983.032942	1948.032060	974.519668	1947.048044	974.027660	17
4	781.427673	391.217475	764.401124	382.704200	763.417108	382.212192	L	1525.833283	763.420279	1508.806734	754.907005	1507.822718	754.414997	16
5	880.496087	440.751682	863.469538	432.238407	862.485522	431.746399	V	1412.749219	706.878248	1395.722670	698.364973	1394.738654	697.872965	15
6	1009.538680	505.272978	992.512131	496.759704	991.528115	496.267696	E	1313.680805	657.344041	1296.654256	648.830766	1295.670240	648.338758	14
7	1096.570708	548.788992	1079.544159	540.275718	1078.560143	539.783709	S	1184.638212	592.822744	1167.611663	584.309470	1166.627647	583.817462	13
8	1153.592172	577.299724	1136.565623	568.786450	1135.581607	568.294441	G	1097.606184	549.306730	1080.579635	540.793456	1079.595619	540.301447	12
9	1210.613636	605.810456	1193.587087	597.297181	1192.603071	596.805173	G	1040.584720	520.795998	1023.558171	512.282723	1022.574155	511.790716	11
10	1267.635100	634.321188	1250.608551	625.807913	1249.624535	625.315905	G	983.563256	492.285266	966.536707	483.771992	965.552691	483.279984	10
11	1380.719164	690.863220	1363.692615	682.349945	1362.708599	681.857937	L	926.541792	463.774534	909.515243	455.261260	908.531227	454.769252	9
12	1479.787578	740.397427	1462.761029	731.884152	1461.777013	731.392144	V	813.457728	407.232502	796.431179	398.719228	795.447163	398.227220	8
13	1607.846156	804.426716	1590.819607	795.913441	1589.835591	795.421433	Q	714.389314	357.698295	697.362765	349.185021	696.378749	348.693013	7
14	1704.898920	852.953098	1687.872371	844.439823	1686.888355	843.947815	P	586.330736	293.669006	569.304187	285.155732	568.320171	284.663724	6
15	1761.920384	881.463830	1744.893835	872.950555	1743.909819	872.458547	G	489.277972	245.142624	472.251423	236.629349	471.267407	236.137341	5
16	1818.941848	909.974562	1801.915299	901.461287	1800.931283	900.969279	G	432.256508	216.631892	415.229959	208.118618	414.245943	207.626610	4
17	1905.973876	953.490576	1888.947327	944.977301	1887.963311	944.485293	S	375.235044	188.121160	358.208495	179.607886	357.224479	179.115878	3
18	2019.057940	1010.032608	2002.031391	1001.519333	2001.047375	1001.027325	L	288.203016	144.605146	271.176467	136.091872			2
19							R	175.118952	88.063114	158.092403	79.549840			1



NCBI BLAST search of **EVQLVESGGGLVQPGGSLR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
30.4	2192.162354	-0.010562	<a href="#">EVQLVESGGGLVQPGGSLR</a>
1.0	2192.131516	0.020276	<a href="#">CRQQRQQQK</a>
1.0	2192.131516	0.020276	<a href="#">CRQQRQQQK</a>
1.0	2192.131516	0.020276	<a href="#">CRQQRQQQK</a>
1.0	2192.138031	0.013761	<a href="#">NQQTNDRKQK</a>
0.2	2192.180908	-0.029116	<a href="#">IEEERLRLEQQK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VYACEVTHQGLSSPVTK**

Found in **IGKC\_HUMAN**, Ig kappa chain C region OS=Homo sapiens GN=IGKC PE=1 SV=1

Match to Query 43031: 2186.080152 from(729.700660,3+) rtinseconds(1798) index(30587)

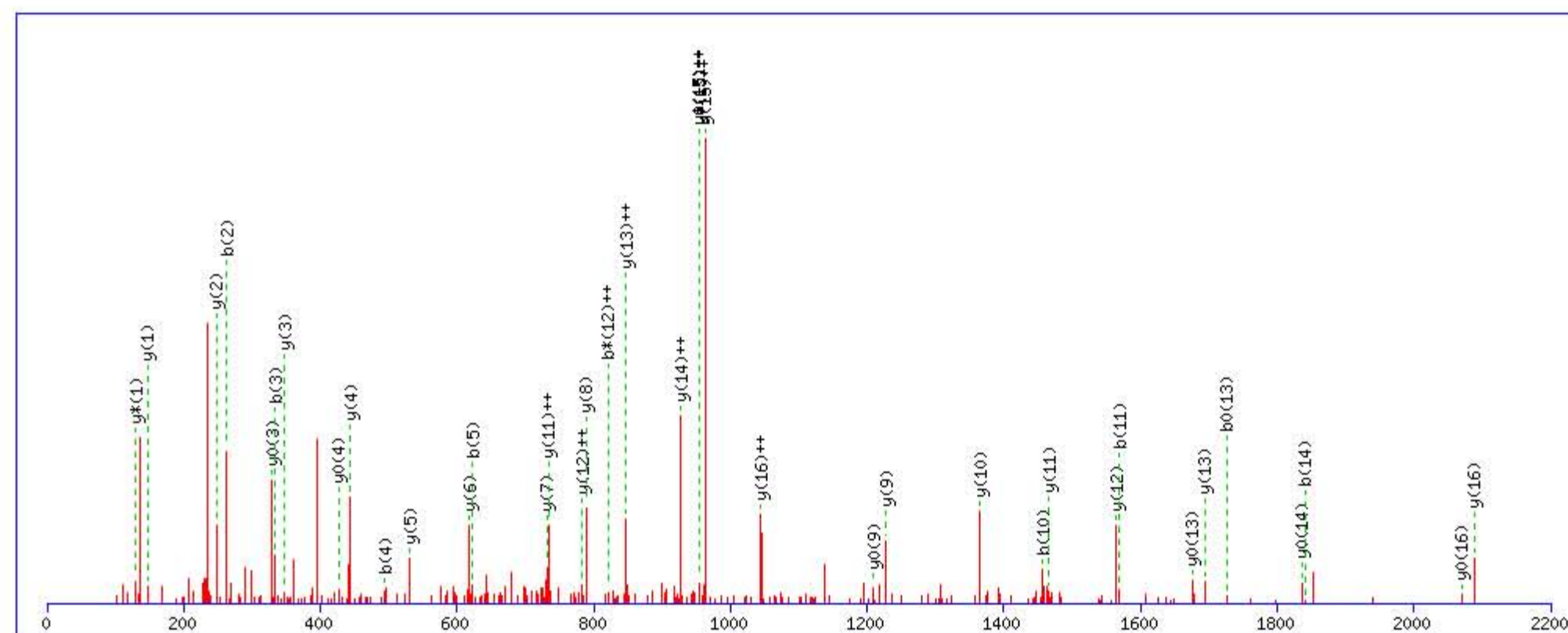
Title: Locus:1.1.1.3289.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2186.086411

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

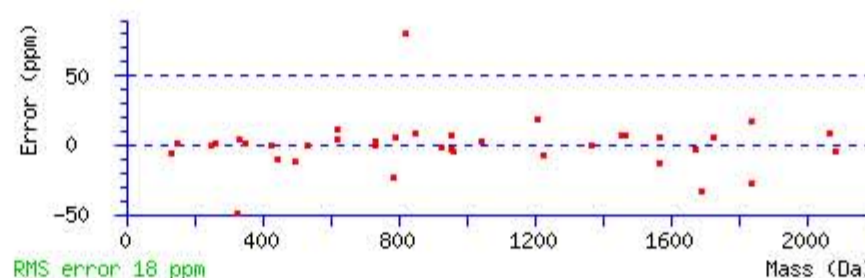
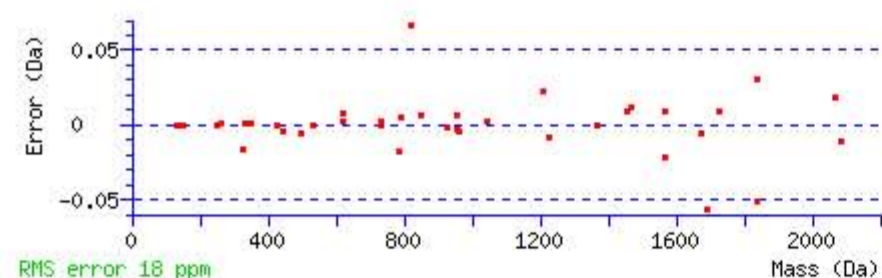
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 58 Expect: 4.2e-005

Matches : 38/166 fragment ions using 105 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							17
2	<b>263.139019</b>	132.073148					Y	<b>2088.025261</b>	<b>1044.516268</b>	2070.998712	1036.002994	<b>2070.014696</b>	1035.510986	16
3	<b>334.176133</b>	167.591704					A	1924.961932	<b>962.984604</b>	1907.935383	<b>954.471330</b>	1906.951367	<b>953.979322</b>	15
4	<b>494.206782</b>	247.607029					C	1853.924818	<b>927.466047</b>	1836.898269	918.952773	<b>1835.914253</b>	918.460765	14
5	<b>623.249375</b>	312.128326			605.238810	303.123043	E	<b>1693.894169</b>	<b>847.450723</b>	1676.867620	838.937448	<b>1675.883604</b>	838.445440	13
6	722.317789	361.662533			704.307224	352.657250	V	<b>1564.851576</b>	<b>782.929426</b>	1547.825027	774.416152	1546.841011	773.924144	12
7	823.365468	412.186372			805.354903	403.181090	T	<b>1465.783162</b>	<b>733.395219</b>	1448.756613	724.881945	1447.772597	724.389937	11
8	960.424380	480.715828			942.413815	471.710546	H	<b>1364.735483</b>	682.871380	1347.708934	674.358105	1346.724918	673.866097	10
9	1399.649706	700.328491	1382.623157	691.815217	1381.639141	691.323208	Q	<b>1227.676571</b>	614.341924	1210.650022	605.828649	<b>1209.666006</b>	605.336641	9
10	<b>1456.671170</b>	728.839223	1439.644621	720.325948	1438.660605	719.833940	G	<b>788.451245</b>	394.729261	771.424696	386.215986	770.440680	385.723978	8
11	<b>1569.755234</b>	785.381255	1552.728685	776.867980	1551.744669	776.375972	L	<b>731.429781</b>	366.218529	714.403232	357.705254	713.419216	357.213246	7
12	1656.787262	828.897269	1639.760713	<b>820.383994</b>	1638.776697	819.891986	S	<b>618.345717</b>	309.676497	601.319168	301.163222	600.335152	300.671214	6
13	1743.819290	872.413283	1726.792741	863.900009	<b>1725.808725</b>	863.408000	S	<b>531.313689</b>	266.160483	514.287140	257.647208	513.303124	257.155200	5
14	<b>1840.872054</b>	920.939665	1823.845505	912.426391	1822.861489	911.934382	P	<b>444.281661</b>	222.644469	427.255112	214.131194	<b>426.271096</b>	213.639186	4
15	1939.940468	970.473872	1922.913919	961.960598	1921.929903	961.468590	V	<b>347.228897</b>	174.118087	330.202348	165.604812	<b>329.218332</b>	165.112804	3
16	2040.988147	1020.997712	2023.961598	1012.484437	2022.977582	1011.992429	T	<b>248.160483</b>	124.583880	231.133934	116.070605	230.149918	115.578597	2
17							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546766			1



NCBI BLAST search of [VYACEVTHQGLSSPVTK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
58.1	2186.086411	-0.006259	<a href="#">VYACEVTHQGLSSPVTK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **TVAAPSVFIFPPSDEQLK**

Found in **IGKC\_HUMAN**, Ig kappa chain C region OS=Homo sapiens GN=IGKC PE=1 SV=1

Match to Query 44190: 2256.185472 from(753.069100,3+) rtinseconds(2683) index(35694)

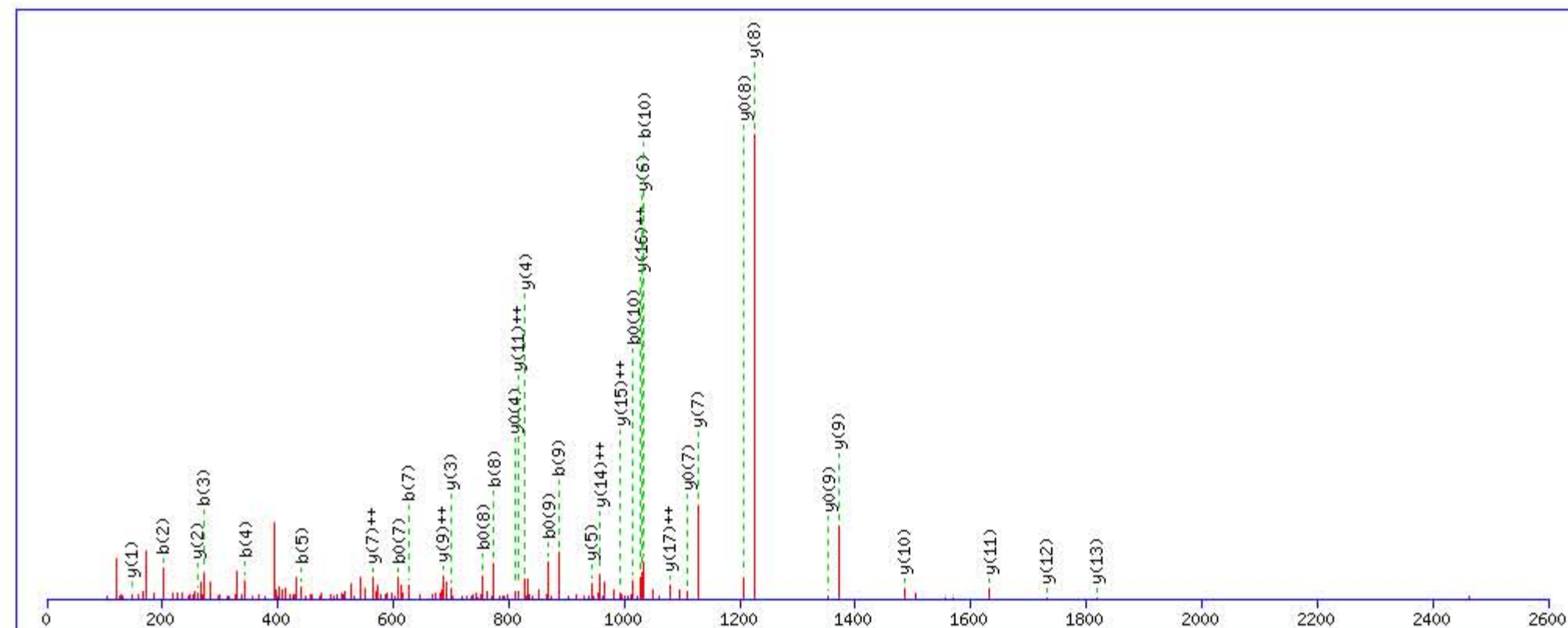
Title: Locus:1.1.1.3597.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2256.186432

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

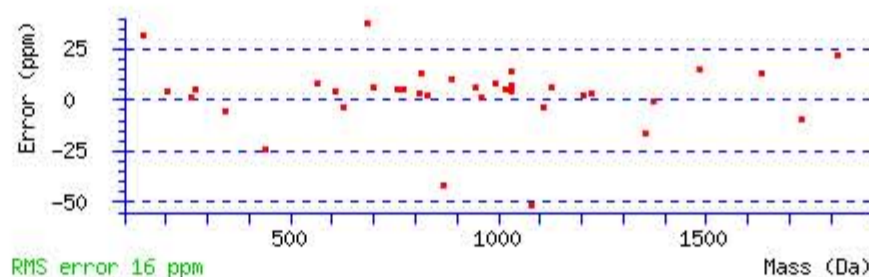
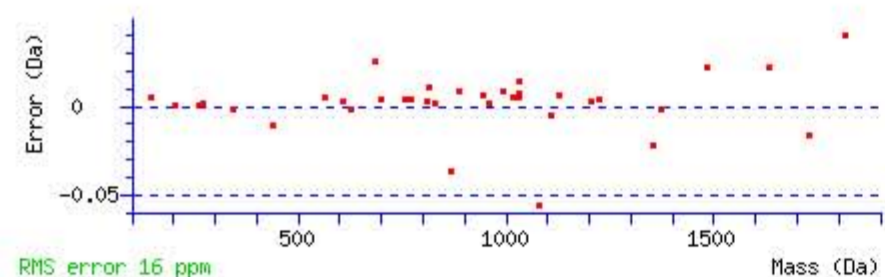
Variable modifications:

Q16 : Biotin:Thermo-21345 (Q)

Ions Score: 54 Expect: 8e-006

Matches : 36/168 fragment ions using 97 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							18
2	<b>201.123369</b>	101.065322			183.112804	92.060040	V	2156.146026	<b>1078.576651</b>	2139.119477	1070.063377	2138.135461	1069.571369	17
3	<b>272.160483</b>	136.583879			254.149918	127.578597	A	2057.077612	<b>1029.042444</b>	2040.051063	1020.529170	2039.067047	1020.037162	16
4	<b>343.197597</b>	172.102437			325.187032	163.097154	A	1986.040498	<b>993.523887</b>	1969.013949	985.010613	1968.029933	984.518605	15
5	<b>440.250361</b>	220.628819			422.239796	211.623536	P	1915.003384	<b>958.005330</b>	1897.976835	949.492056	1896.992819	949.000048	14
6	527.282389	264.144833			509.271824	255.139550	S	<b>1817.950620</b>	909.478948	1800.924071	900.965674	1799.940055	900.473666	13
7	<b>626.350803</b>	313.679040			<b>608.340238</b>	304.673757	V	<b>1730.918592</b>	865.962934	1713.892043	857.449660	1712.908027	856.957652	12
8	<b>773.419217</b>	387.213247			<b>755.408652</b>	378.207964	F	<b>1631.850178</b>	<b>816.428727</b>	1614.823629	807.915453	1613.839613	807.423445	11
9	<b>886.503281</b>	443.755279			<b>868.492716</b>	434.749996	I	<b>1484.781764</b>	742.894520	1467.755215	734.381246	1466.771199	733.889238	10
10	<b>1033.571695</b>	517.289486			<b>1015.561130</b>	508.284203	F	<b>1371.697700</b>	<b>686.352488</b>	1354.671151	677.839214	<b>1353.687135</b>	677.347206	9
11	1130.624459	565.815868			1112.613894	556.810585	P	<b>1224.629286</b>	612.818281	1207.602737	604.305007	<b>1206.618721</b>	603.812999	8
12	1227.677223	614.342250			1209.666658	605.336967	P	<b>1127.576522</b>	<b>564.291899</b>	1110.549973	555.778625	<b>1109.565957</b>	555.286617	7
13	1314.709251	657.858264			1296.698686	648.852981	S	<b>1030.523758</b>	515.765517	1013.497209	507.252243	1012.513193	506.760235	6
14	1429.736194	715.371735			1411.725629	706.366453	D	<b>943.491730</b>	472.249503	926.465181	463.736229	925.481165	463.244221	5
15	1558.778787	779.893032			1540.768222	770.887749	E	<b>828.464787</b>	414.736032	811.438238	406.222757	<b>810.454222</b>	405.730749	4
16	1998.004113	999.505695	1980.977564	990.992420	1979.993548	990.500412	Q	<b>699.422194</b>	350.214735	682.395645	341.701461			3
17	2111.088177	1056.047727	2094.061628	1047.534452	2093.077612	1047.042444	L	<b>260.196868</b>	130.602072	243.170319	122.088798			2
18							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [TVAAPSVFIFPPSDEQLK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
54.5	2256.186432	-0.000960	<a href="#">TVAAPSVFIFPPSDEQLK</a>
0.1	2256.171860	0.013612	<a href="#">QVVCDLGNPMKAGTQLLAGLR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SYSCQVTHEGSTVEK**

Found in **I<sub>GLL5</sub>\_HUMAN**, Immunoglobulin lambda-like polypeptide 5 OS=Homo sapiens GN=IGLL5 PE=2 SV=2

Match to Query 40228: 2021.908932 from(674.976920,3+) rtinseconds(1453) index(15568)

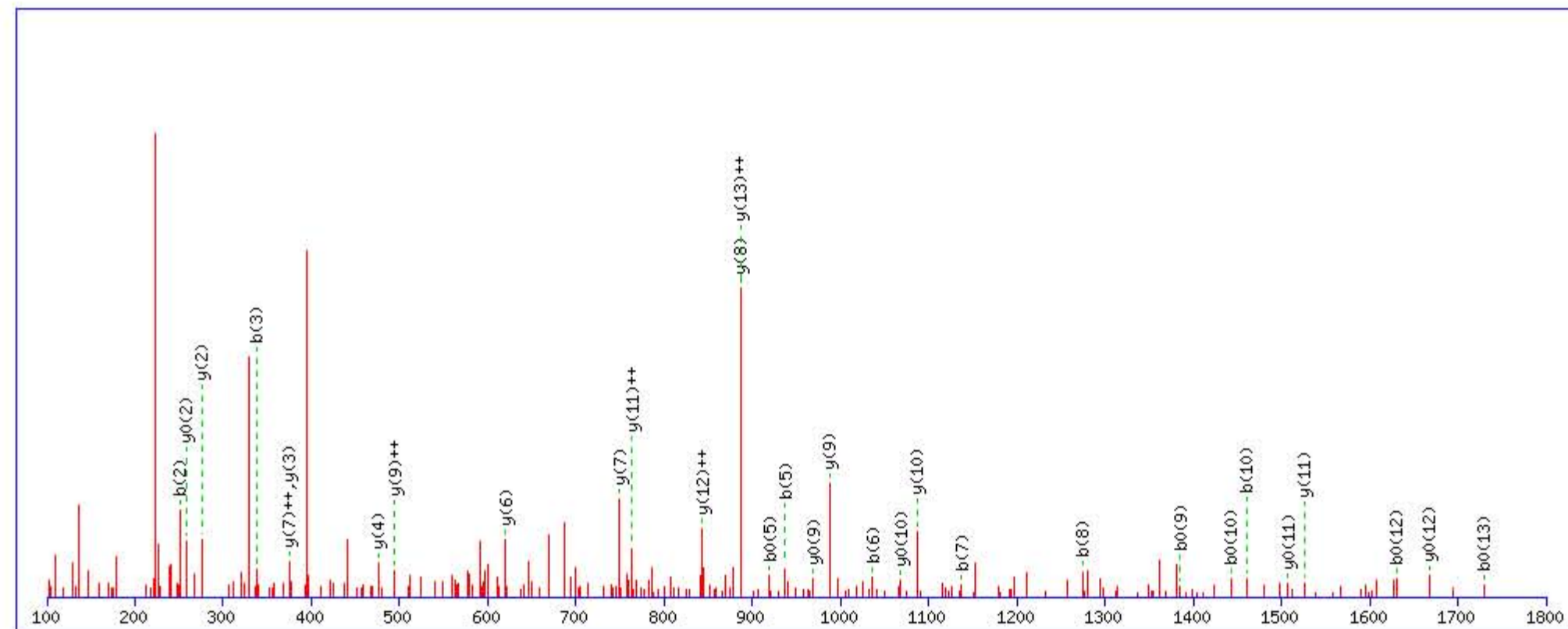
Title: Locus:1.1.1.3071.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2021.918671

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

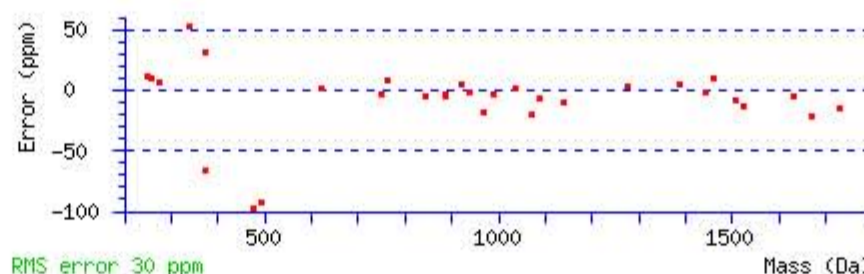
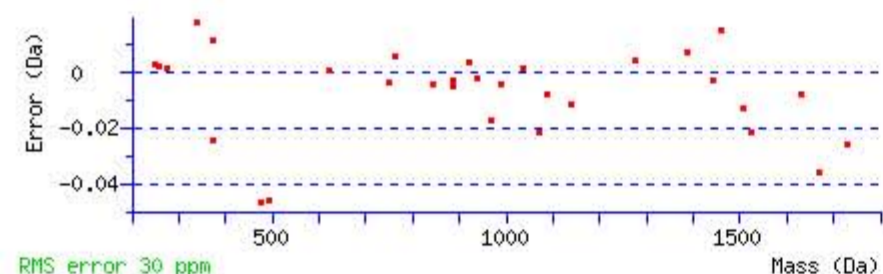
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 35 Expect: 0.0026

Matches : 31/158 fragment ions using 65 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							15
2	<b>251.102633</b>	126.054954			233.092068	117.049672	Y	1935.893912	968.450594	1918.867363	959.937320	1917.883347	959.445312	14
3	<b>338.134661</b>	169.570968			320.124096	160.565686	S	1772.830583	<b>886.918930</b>	1755.804034	878.405655	1754.820018	877.913647	13
4	498.165310	249.586293			480.154745	240.581011	C	1685.798555	<b>843.402916</b>	1668.772006	834.889641	<b>1667.787990</b>	834.397633	12
5	<b>937.390636</b>	469.198956	920.364087	460.685682	<b>919.380071</b>	460.193674	Q	<b>1525.767906</b>	<b>763.387591</b>	1508.741357	754.874317	<b>1507.757341</b>	754.382309	11
6	<b>1036.459050</b>	518.733163	1019.432501	510.219889	1018.448485	509.727881	V	<b>1086.542580</b>	543.774928	1069.516031	535.261654	<b>1068.532015</b>	534.769646	10
7	<b>1137.506729</b>	569.257003	1120.480180	560.743728	1119.496164	560.251720	T	<b>987.474166</b>	<b>494.240721</b>	970.447617	485.727447	<b>969.463601</b>	485.235439	9
8	<b>1274.565641</b>	637.786459	1257.539092	629.273184	1256.555076	628.781176	H	<b>886.426487</b>	443.716882	869.399938	435.203607	868.415922	434.711599	8
9	1403.608234	702.307755	1386.581685	693.794481	<b>1385.597669</b>	693.302473	E	<b>749.367575</b>	<b>375.187426</b>	732.341026	366.674151	731.357010	366.182143	7
10	<b>1460.629698</b>	730.818487	1443.603149	722.305213	<b>1442.619133</b>	721.813204	G	<b>620.324982</b>	310.666129	603.298433	302.152855	602.314417	301.660847	6
11	1547.661726	774.334501	1530.635177	765.821227	1529.651161	765.329219	S	563.303518	282.155397	546.276969	273.642123	545.292953	273.150115	5
12	1648.709405	824.858341	1631.682856	816.345066	<b>1630.698840</b>	815.853058	T	<b>476.271490</b>	238.639383	459.244941	230.126109	458.260925	229.634101	4
13	1747.777819	874.392548	1730.751270	865.879273	<b>1729.767254</b>	865.387265	V	<b>375.223811</b>	188.115544	358.197262	179.602269	357.213246	179.110261	3
14	1876.820412	938.913844	1859.793863	930.400570	1858.809847	929.908562	E	<b>276.155397</b>	138.581337	259.128848	130.068062	<b>258.144832</b>	129.576054	2
15							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [SYSCQVTHEGSTVEK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
35.4	2021.918671	-0.009739	<a href="#">SYSCQVTHEGSTVEK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **QIQVSWLR**

Found in **IGHM\_HUMAN**, Ig mu chain C region OS=Homo sapiens GN=IGHM PE=1 SV=3

Match to Query 21116: 1339.740388 from(670.877470,2+) rtinseconds(2362) index(33882)

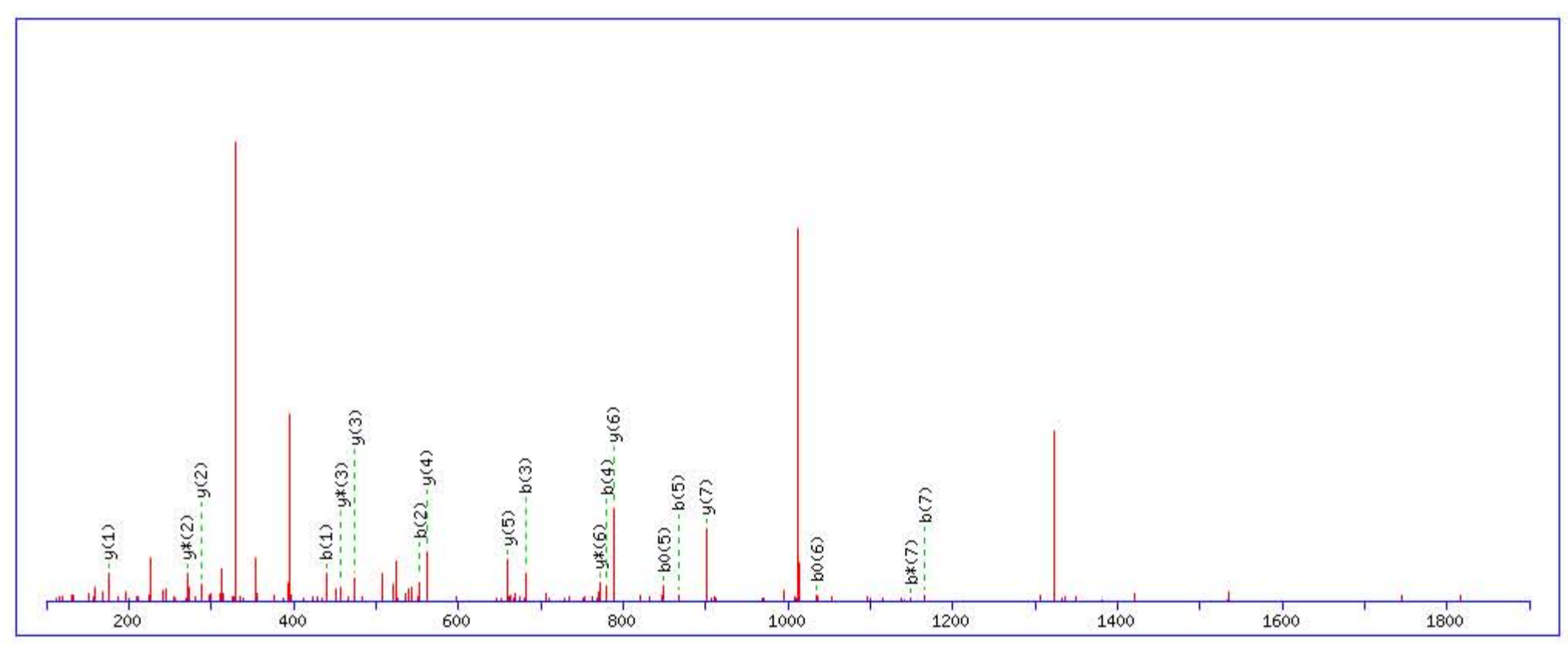
Title: Locus:1.1.1.3486.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1339.743454

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

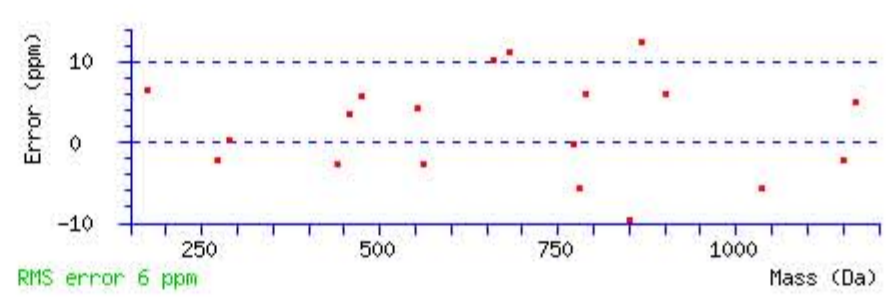
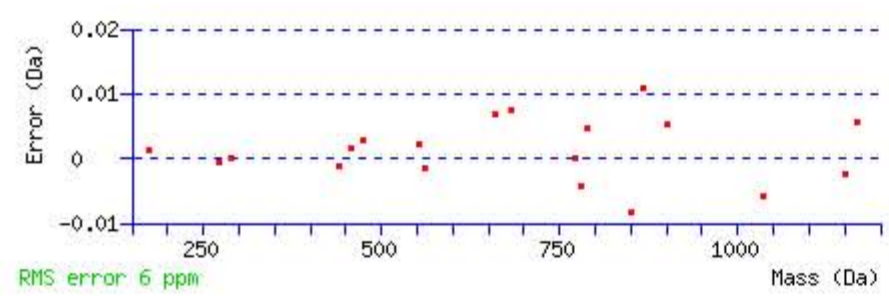
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.035

Matches : 19/70 fragment ions using 48 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							8
2	553.316666	277.161971	536.290117	268.648697			I	901.525413	451.266344	884.498864	442.753070	883.514848	442.261062	7
3	681.375244	341.191260	664.348695	332.677986			Q	788.441349	394.724312	771.414800	386.211038	770.430784	385.719030	6
4	780.443658	390.725467	763.417109	382.212193			V	660.382771	330.695023	643.356222	322.181749	642.372206	321.689741	5
5	867.475686	434.241481	850.449137	425.728207	849.465121	425.236199	S	561.314357	281.160816	544.287808	272.647542	543.303792	272.155534	4
6	1053.554999	527.281138	1036.528450	518.767863	1035.544434	518.275855	W	474.282329	237.644802	457.255780	229.131528			3
7	1166.639063	583.823169	1149.612514	575.309895	1148.628498	574.817887	L	288.203016	144.605146	271.176467	136.091871			2
8							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **QIQVSWLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
27.8	1339.743454	-0.003066	<a href="#">QIQVSWLR</a>
11.4	1339.753326	-0.012938	<a href="#">QLQISIAEK</a>
11.3	1339.739426	0.000962	<a href="#">QLLRDQR</a>
11.3	1339.739410	0.000978	<a href="#">QLNRLETR</a>
10.3	1339.735596	0.004792	<a href="#">QLQVAMPVK</a>
8.8	1339.743454	-0.003066	<a href="#">QIQVSWLR</a>
6.5	1339.739395	0.000993	<a href="#">QLAEKERR</a>
6.5	1339.743439	-0.003051	<a href="#">QLSWLINR</a>
6.5	1339.743454	-0.003066	<a href="#">QLTWLVNR</a>
6.2	1339.728180	0.012208	<a href="#">IQQIEKDR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **LICQATGFSPR**

Found in **IGHM\_HUMAN**, Ig mu chain C region OS=Homo sapiens GN=IGHM PE=1 SV=3

Match to Query 28738: 1559.793348 from(780.903950,2+) rtinseconds(2012) index(31987)

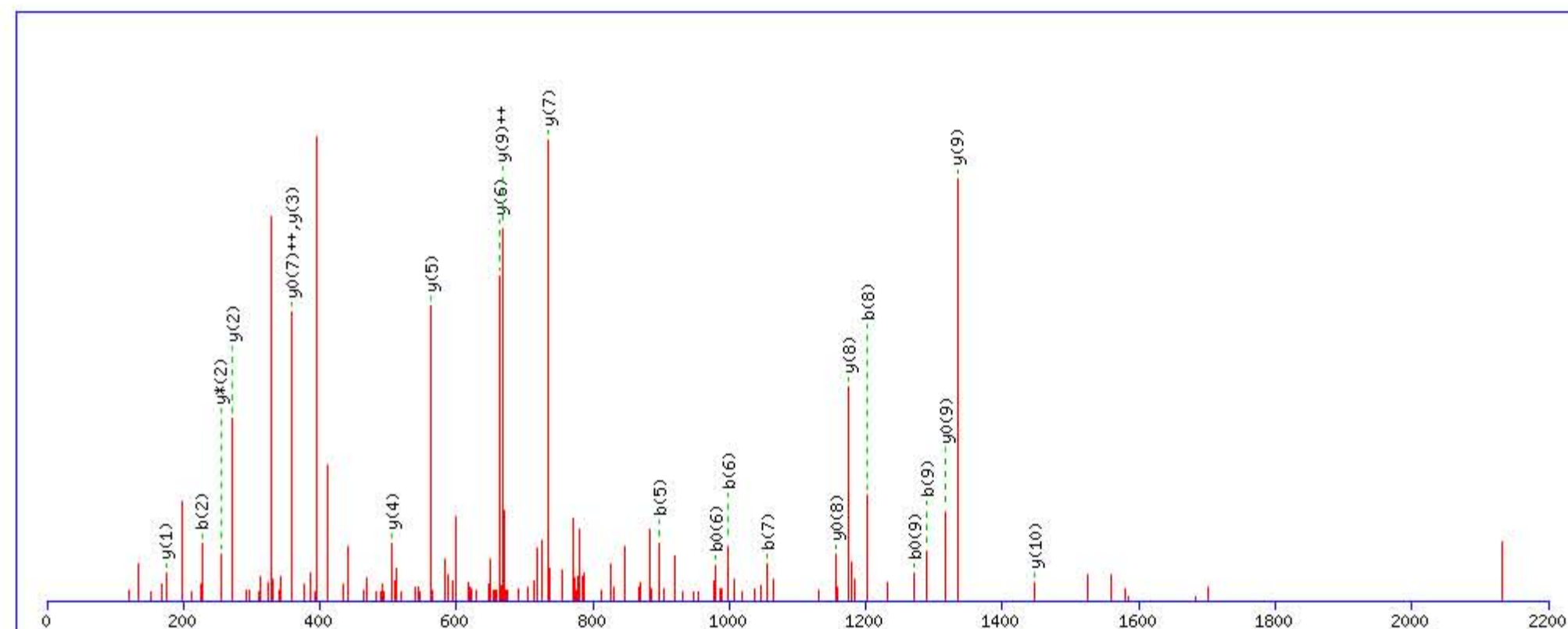
Title: Locus:1.1.1.3364.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1559.795242

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

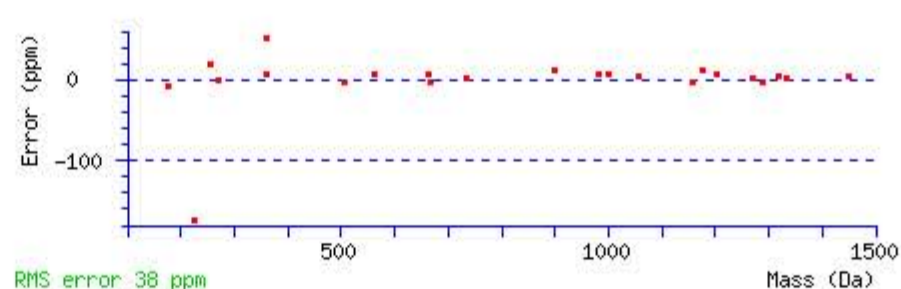
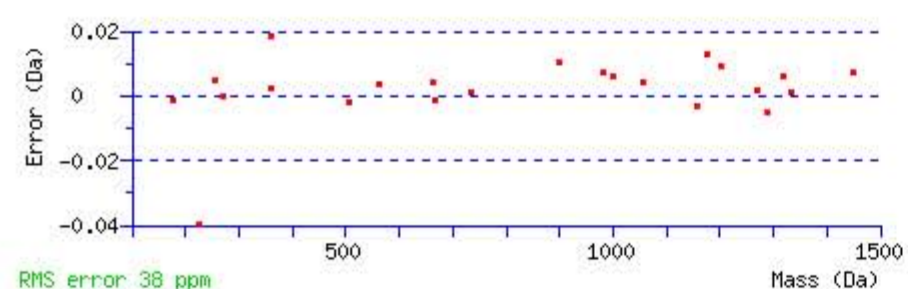
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 66 Expect: 4.8e-006

Matches : 23/100 fragment ions using 40 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							11
2	<b>227.175404</b>	114.091340					I	<b>1447.718454</b>	724.362865	1430.691905	715.849591	1429.707889	715.357583	10
3	387.206053	194.106664					C	<b>1334.634390</b>	<b>667.820833</b>	1317.607841	659.307559	<b>1316.623825</b>	658.815551	9
4	826.431379	413.719328	809.404830	405.206053			Q	<b>1174.603741</b>	587.805509	1157.577192	579.292234	<b>1156.593176</b>	578.800226	8
5	<b>897.468493</b>	449.237885	880.441944	440.724610			A	<b>735.378415</b>	368.192846	718.351866	359.679571	717.367850	<b>359.187563</b>	7
6	<b>998.516172</b>	499.761724	981.489623	491.248449	<b>980.505607</b>	490.756441	T	<b>664.341301</b>	332.674289	647.314752	324.161014	646.330736	323.669006	6
7	<b>1055.537636</b>	528.272456	1038.511087	519.759182	1037.527071	519.267174	G	<b>563.293622</b>	282.150449	546.267073	273.637175	545.283057	273.145167	5
8	<b>1202.606050</b>	601.806663	1185.579501	593.293389	1184.595485	592.801381	F	<b>506.272158</b>	253.639717	489.245609	245.126443	488.261593	244.634435	4
9	<b>1289.638078</b>	645.322677	1272.611529	636.809403	<b>1271.627513</b>	636.317395	S	<b>359.203744</b>	180.105510	342.177195	171.592236	341.193179	171.100228	3
10	1386.690842	693.849059	1369.664293	685.335785	1368.680277	684.843777	P	<b>272.171716</b>	136.589496	<b>255.145167</b>	128.076221			2
11							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LICQATGFSPR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
66.1	1559.795242	-0.001894	<a href="#">LICQATGFSPR</a>
8.9	1559.808960	-0.015612	<a href="#">LDRLSGLADQMVAR</a>
3.3	1559.770081	0.023267	<a href="#">ARCEVQFSPR</a>
2.5	1559.808975	-0.015627	<a href="#">LLDRDACDTRVK</a>
1.7	1559.787827	0.005521	<a href="#">SLHPAMLPAADGAGPR</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **YAATSQVLLPSK**

Found in **IGHM\_HUMAN**, Ig mu chain C region OS=Homo sapiens GN=IGHM PE=1 SV=3

Match to Query 30020: 1587.867628 from(794.941090,2+) rtinseconds(2059) index(32220)

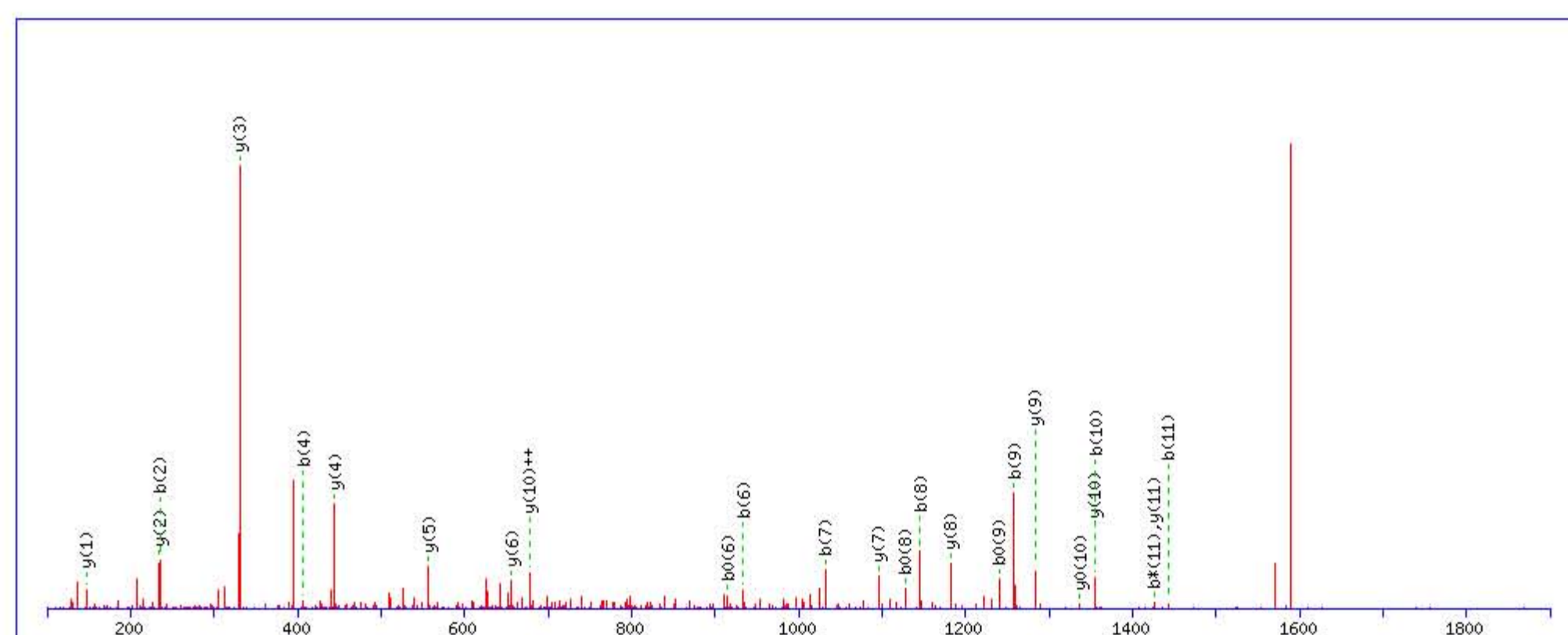
Title: Locus:1.1.1.3380.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 100 to 1900 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1587.869431

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

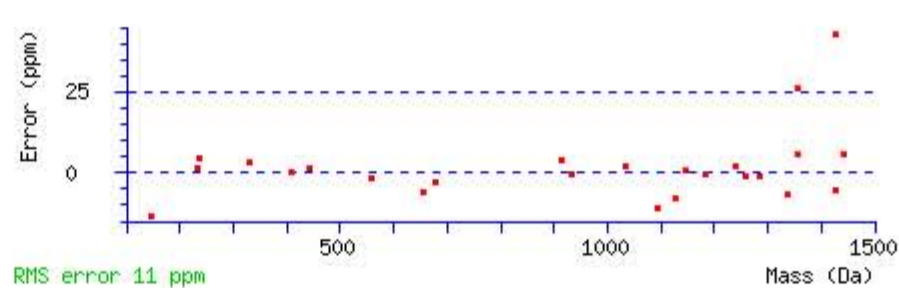
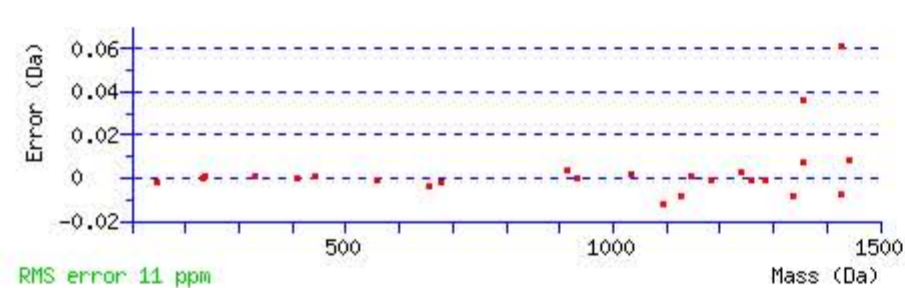
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 72 Expect: 1.3e-006

Matches : 25/114 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							12
2	<b>235.107719</b>	118.057498					A	<b>1425.813399</b>	713.410337	1408.786850	704.897063	1407.802834	704.405055	11
3	306.144833	153.576055					A	<b>1354.776285</b>	<b>677.891780</b>	1337.749736	669.378506	<b>1336.765720</b>	668.886498	10
4	<b>407.192512</b>	204.099894			389.181947	195.094612	T	<b>1283.739171</b>	642.373223	1266.712622	633.859949	1265.728606	633.367941	9
5	494.224540	247.615908			476.213975	238.610626	S	<b>1182.691492</b>	591.849384	1165.664943	583.336110	1164.680927	582.844101	8
6	<b>933.449866</b>	467.228571	916.423317	458.715297	<b>915.439301</b>	458.223289	Q	<b>1095.659464</b>	548.333370	1078.632915	539.820096	1077.648899	539.328088	7
7	<b>1032.518280</b>	516.762778	1015.491731	508.249504	1014.507715	507.757496	V	<b>656.434138</b>	328.720707	639.407589	320.207432	638.423573	319.715424	6
8	<b>1145.602344</b>	573.304810	1128.575795	564.791536	<b>1127.591779</b>	564.299527	L	<b>557.365724</b>	279.186500	540.339175	270.673226	539.355159	270.181218	5
9	<b>1258.686408</b>	629.846842	1241.659859	621.333567	<b>1240.675843</b>	620.841559	L	<b>444.281660</b>	222.644468	427.255111	214.131193	426.271095	213.639186	4
10	<b>1355.739172</b>	678.373224	1338.712623	669.859949	1337.728607	669.367941	P	<b>331.197596</b>	166.102436	314.171047	157.589162	313.187031	157.097154	3
11	<b>1442.771200</b>	721.889238	<b>1425.744651</b>	713.375964	1424.760635	712.883955	S	<b>234.144832</b>	117.576054	217.118283	109.062780	216.134267	108.570772	2
12							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [YAATSQVLLPSK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
72.4	1587.869431	-0.001803	<a href="#">YAATSQVLLPSK</a>
14.9	1587.862045	0.005583	<a href="#">VTGQNQEQFLLAK</a>
10.4	1587.862045	0.005583	<a href="#">DGASLSPATLFIQIR</a>
5.5	1587.874603	-0.006975	<a href="#">SFAFRSAIQHRR</a>
4.8	1587.891220	-0.023592	<a href="#">TIQTIVFLYSLYK</a>
4.8	1587.862030	0.005598	<a href="#">EDAKLSFKHVSSLK</a>
4.6	1587.858002	0.009626	<a href="#">LSQEQTLQALRSSK</a>
4.5	1587.846802	0.020826	<a href="#">KSDIDEIVLVGGSTR</a>
3.7	1587.890533	-0.022905	<a href="#">EPTTKAEMLKIIISK</a>
3.5	1587.865402	0.002226	<a href="#">ENGLRDILAVLTMK</a>



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **DVMQGTDEHVVCK**

Found in **IGHM\_HUMAN**, Ig mu chain C region OS=Homo sapiens GN=IGHM PE=1 SV=3

Match to Query 36287: 1827.822822 from(610.281550,3+) rtinseconds(1652) index(29794)

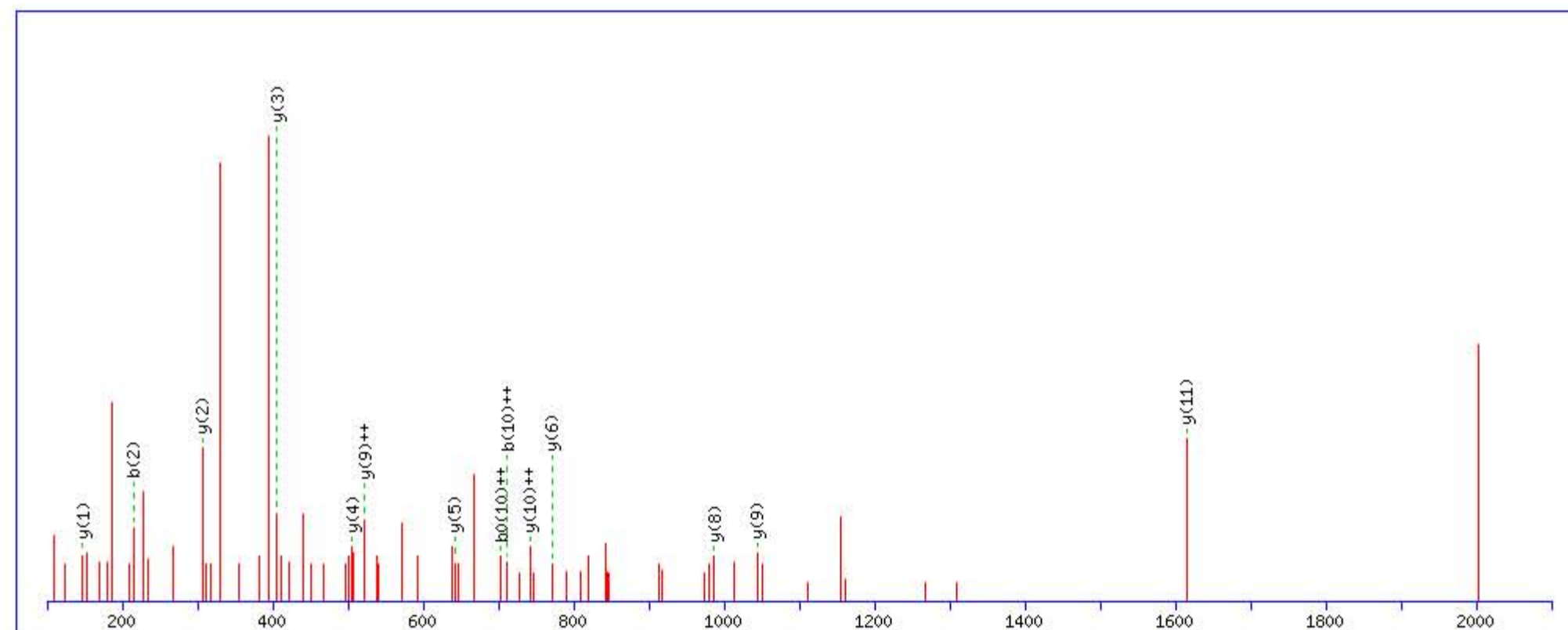
Title: Locus:1.1.1.3238.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1827.831787

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

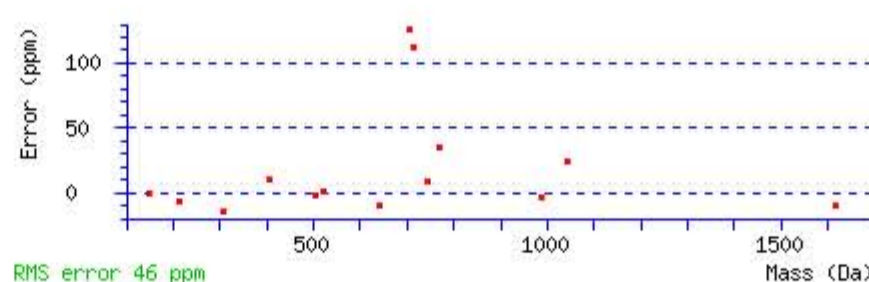
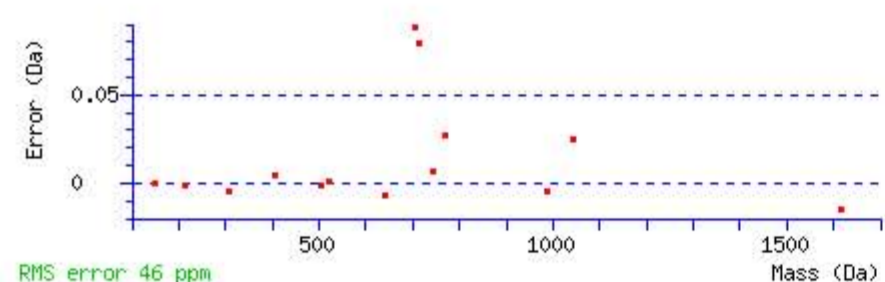
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 25 Expect: 0.029

Matches : 14/128 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							13
2	<b>215.102633</b>	108.054954			197.092068	99.049672	V	1713.812097	857.409687	1696.785548	848.896412	1695.801532	848.404404	12
3	346.143118	173.575197			328.132553	164.569915	M	<b>1614.743683</b>	807.875480	1597.717134	799.362205	1596.733118	798.870197	11
4	785.368444	393.187860	768.341895	384.674586	767.357879	384.182578	Q	1483.703198	<b>742.355237</b>	1466.676649	733.841963	1465.692633	733.349955	10
5	842.389908	421.698592	825.363359	413.185318	824.379343	412.693310	G	<b>1044.477872</b>	<b>522.742574</b>	1027.451323	514.229300	1026.467307	513.737292	9
6	943.437587	472.222432	926.411038	463.709157	925.427022	463.217149	T	<b>987.456408</b>	494.231842	970.429859	485.718568	969.445843	485.226560	8
7	1058.464530	529.735903	1041.437981	521.222629	1040.453965	520.730621	D	886.408729	443.708003	869.382180	435.194728	868.398164	434.702720	7
8	1187.507123	594.257200	1170.480574	585.743925	1169.496558	585.251917	E	<b>771.381786</b>	386.194531	754.355237	377.681257	753.371221	377.189249	6
9	1324.566035	662.786656	1307.539486	654.273381	1306.555470	653.781373	H	<b>642.339193</b>	321.673235	625.312644	313.159960			5
10	1423.634449	<b>712.320863</b>	1406.607900	703.807588	1405.623884	<b>703.315580</b>	V	<b>505.280281</b>	253.143779	488.253732	244.630504			4
11	1522.702863	761.855070	1505.676314	753.341795	1504.692298	752.849787	V	<b>406.211867</b>	203.609572	389.185318	195.096297			3
12	1682.733512	841.870394	1665.706963	833.357120	1664.722947	832.865112	C	<b>307.143453</b>	154.075365	290.116904	145.562090			2
13							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [DVMQGTDEHVVCK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
25.0	1827.831787	-0.008965	<a href="#">DVMQGTDEHVVCK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **YVTSAPMPEPQAPGR**

Found in **IGHM\_HUMAN**, Ig mu chain C region OS=Homo sapiens GN=IGHM PE=1 SV=3

Match to Query 37641: 1910.930802 from(637.984210,3+) rtinseconds(1900) index(31109)

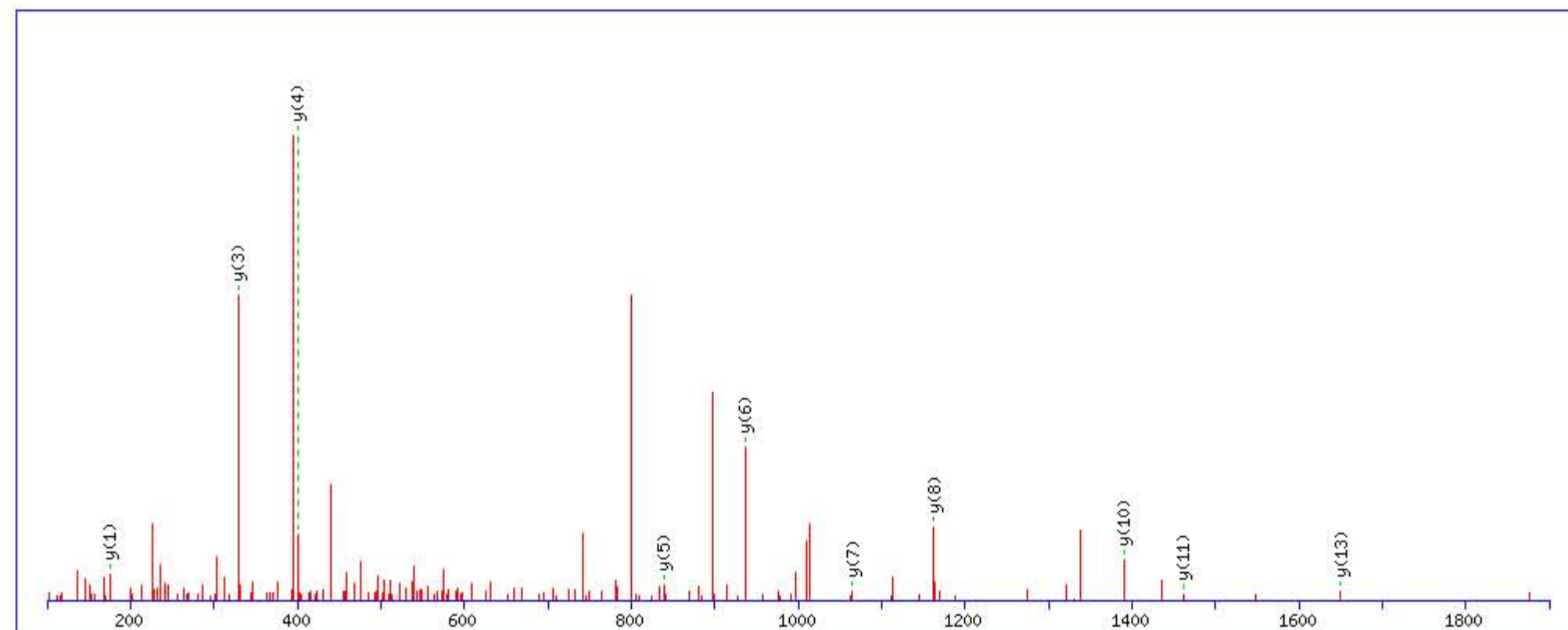
Title: Locus:1.1.1.3325.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1910.938263

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

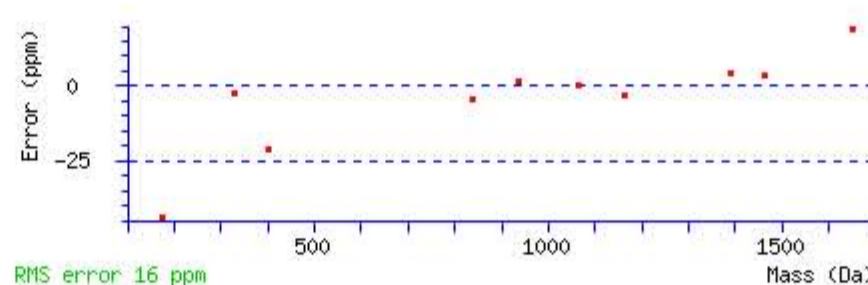
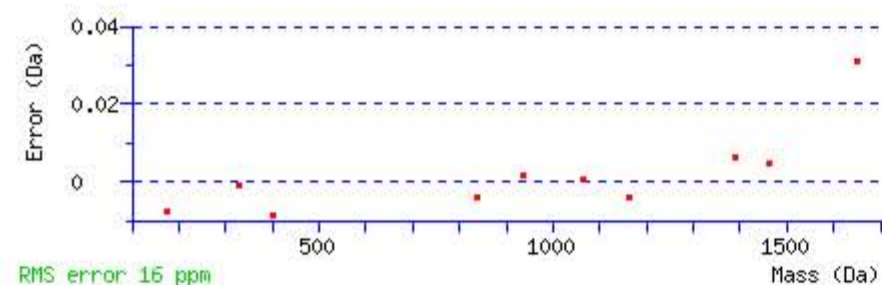
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 31 Expect: 0.02

Matches : 10/132 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							15
2	263.139019	132.073148					V	1748.882225	874.944750	1731.855676	866.431476	1730.871660	865.939468	14
3	364.186698	182.596987			346.176133	173.591705	T	<b>1649.813811</b>	825.410543	1632.787262	816.897269	1631.803246	816.405261	13
4	451.218726	226.113001			433.208161	217.107719	S	1548.766132	774.886704	1531.739583	766.373430	1530.755567	765.881421	12
5	522.255840	261.631558			504.245275	252.626276	A	<b>1461.734104</b>	731.370690	1444.707555	722.857416	1443.723539	722.365407	11
6	619.308604	310.157940			601.298039	301.152658	P	<b>1390.696990</b>	695.852133	1373.670441	687.338859	1372.686425	686.846850	10
7	750.349089	375.678183			732.338524	366.672900	M	1293.644226	647.325751	1276.617677	638.812477	1275.633661	638.320468	9
8	847.401853	424.204565			829.391288	415.199282	P	<b>1162.603741</b>	581.805508	1145.577192	573.292234	1144.593176	572.800226	8
9	976.444446	488.725861			958.433881	479.720579	E	<b>1065.550977</b>	533.279126	1048.524428	524.765852	1047.540412	524.273844	7
10	1073.497210	537.252243			1055.486645	528.246961	P	<b>936.508384</b>	468.757830	919.481835	460.244555			6
11	1512.722536	756.864906	1495.695987	748.351632	1494.711971	747.859624	Q	<b>839.455620</b>	420.231448	822.429071	411.718173			5
12	1583.759650	792.383463	1566.733101	783.870189	1565.749085	783.378180	A	<b>400.230294</b>	200.618785	383.203745	192.105510			4
13	1680.812414	840.909845	1663.785865	832.396571	1662.801849	831.904563	P	<b>329.193180</b>	165.100228	312.166631	156.586953			3
14	1737.833878	869.420577	1720.807329	860.907303	1719.823313	860.415294	G	232.140416	116.573846	215.113867	108.060571			2
15							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [YVTSAPMPEPQAPGR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
30.6	1910.938263	-0.007461	<a href="#">YVTSAPMPEPQAPGR</a>
22.6	1910.934265	-0.003463	<a href="#">SGSDEVQVGQQR</a>
22.6	1910.934265	-0.003463	<a href="#">SGSDEVQVGQQR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **YVTSAPMPEPQAPGR**

Found in **IGHM\_HUMAN**, Ig mu chain C region OS=Homo sapiens GN=IGHM PE=1 SV=3

Match to Query 37642: 1910.930802 from(637.984210,3+) rtinseconds(1891) index(31052)

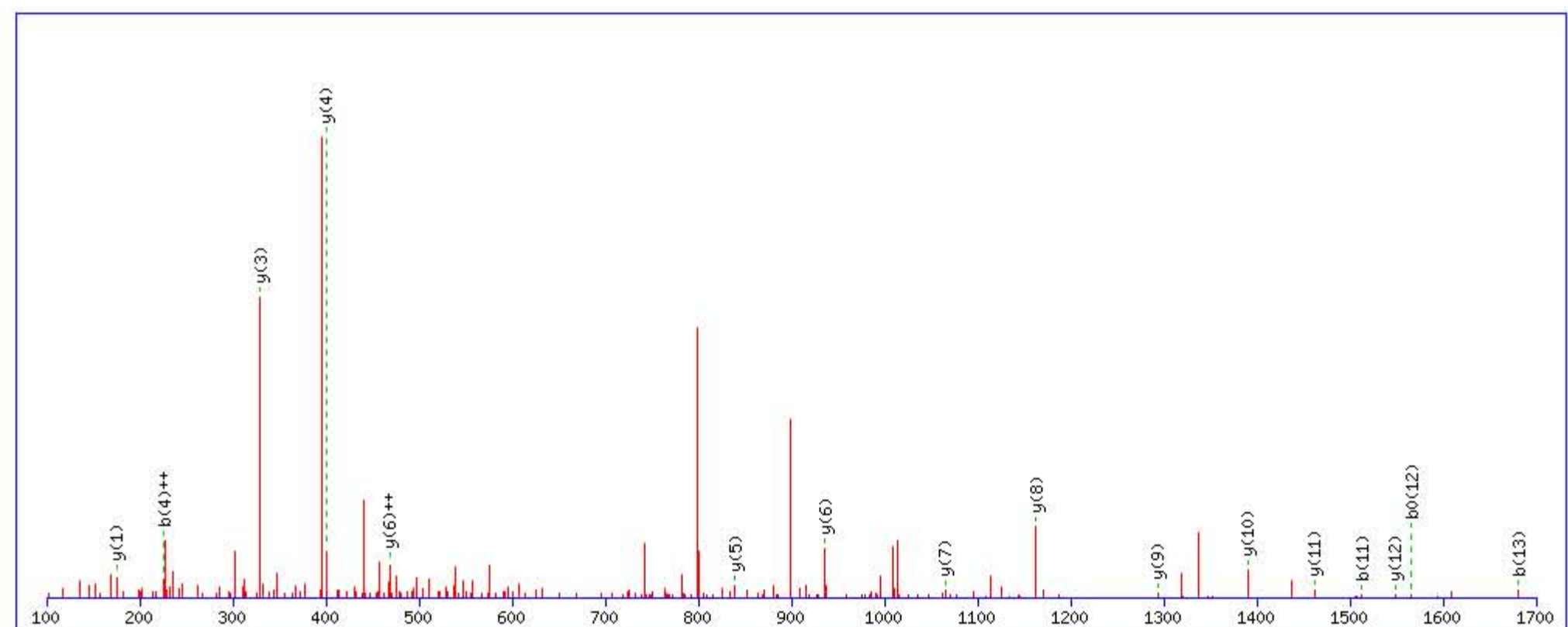
Title: Locus:1.1.1.3322.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1910.938263

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

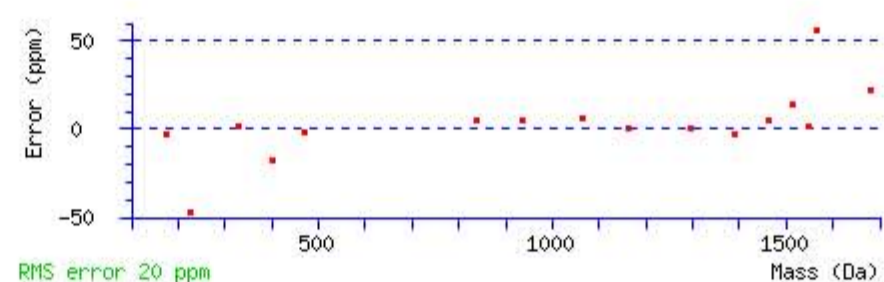
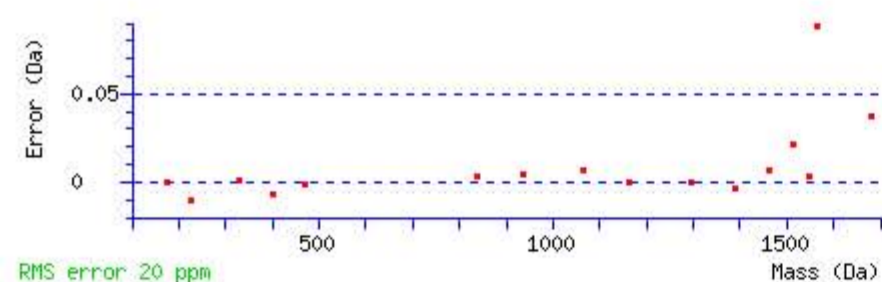
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.012

Matches : 16/132 fragment ions using 58 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							15
2	263.139019	132.073148					V	1748.882225	874.944750	1731.855676	866.431476	1730.871660	865.939468	14
3	364.186698	182.596987			346.176133	173.591705	T	1649.813811	825.410543	1632.787262	816.897269	1631.803246	816.405261	13
4	451.218726	<b>226.113001</b>			433.208161	217.107719	S	<b>1548.766132</b>	774.886704	1531.739583	766.373430	1530.755567	765.881421	12
5	522.255840	261.631558			504.245275	252.626276	A	<b>1461.734104</b>	731.370690	1444.707555	722.857416	1443.723539	722.365407	11
6	619.308604	310.157940			601.298039	301.152658	P	<b>1390.696990</b>	695.852133	1373.670441	687.338859	1372.686425	686.846850	10
7	750.349089	375.678183			732.338524	366.672900	M	<b>1293.644226</b>	647.325751	1276.617677	638.812477	1275.633661	638.320468	9
8	847.401853	424.204565			829.391288	415.199282	P	<b>1162.603741</b>	581.805508	1145.577192	573.292234	1144.593176	572.800226	8
9	976.444446	488.725861			958.433881	479.720579	E	<b>1065.550977</b>	533.279126	1048.524428	524.765852	1047.540412	524.273844	7
10	1073.497210	537.252243			1055.486645	528.246961	P	<b>936.508384</b>	<b>468.757830</b>	919.481835	460.244555			6
11	<b>1512.722536</b>	756.864906	1495.695987	748.351632	1494.711971	747.859624	Q	<b>839.455620</b>	420.231448	822.429071	411.718173			5
12	1583.759650	792.383463	1566.733101	783.870189	<b>1565.749085</b>	783.378180	A	<b>400.230294</b>	200.618785	383.203745	192.105510			4
13	<b>1680.812414</b>	840.909845	1663.785865	832.396571	1662.801849	831.904563	P	<b>329.193180</b>	165.100228	312.166631	156.586953			3
14	1737.833878	869.420577	1720.807329	860.907303	1719.823313	860.415294	G	232.140416	116.573846	215.113867	108.060571			2
15							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **YVTSAPMPEPQAPGR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
40.4	1910.934265	-0.003463	<a href="#">SGSDEVQVGQQR</a>
38.6	1910.934265	-0.003463	<a href="#">SGSDEVQVGQQR</a>
32.7	1910.938263	-0.007461	<a href="#">YVTSAPMPEPQAPGR</a>
1.6	1910.934265	-0.003463	<a href="#">SGSDEVQVGQQR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **LICQATGFSPR**

Found in **IGHM\_HUMAN**, Ig mu chain C region OS=Homo sapiens GN=IGHM PE=1 SV=3

Match to Query 28738: 1559.793348 from(780.903950,2+) rtinseconds(2012) index(31987)

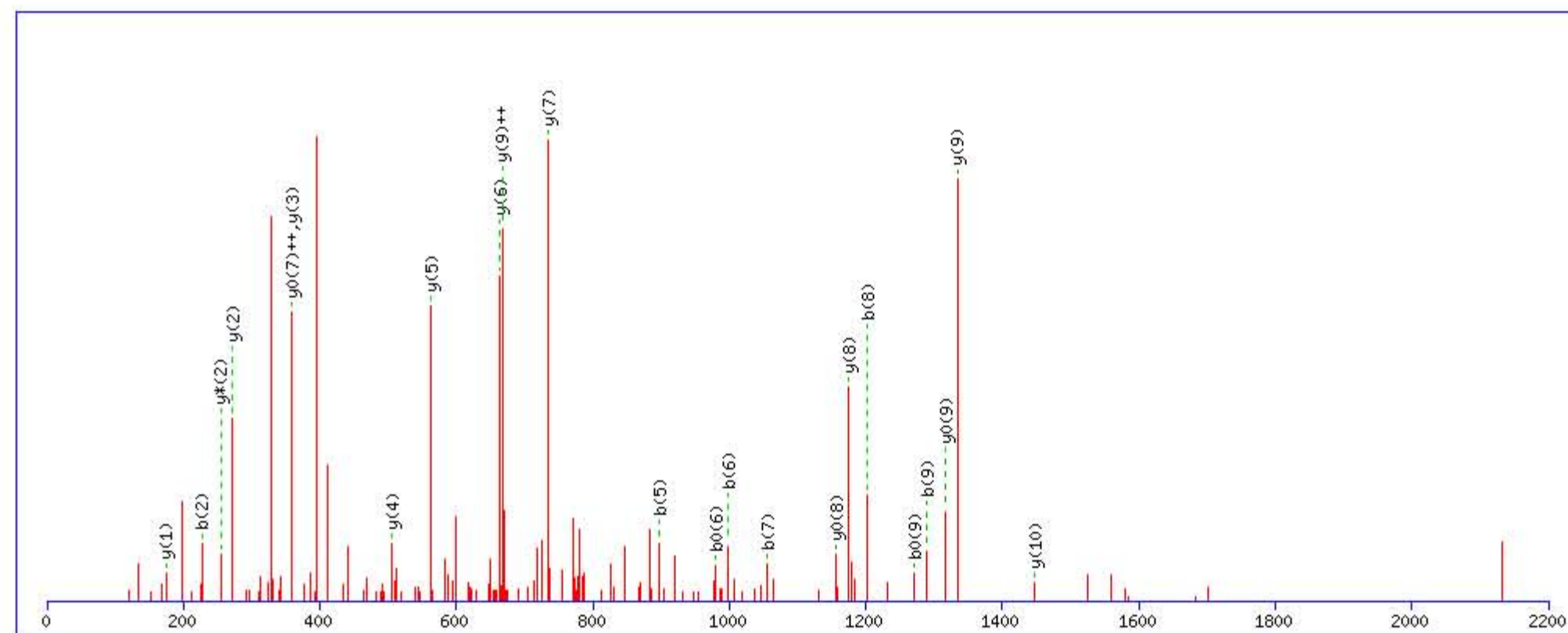
Title: Locus:1.1.1.3364.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1559.795242

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

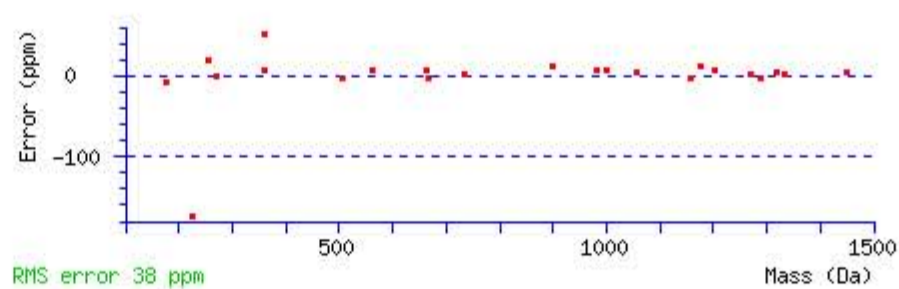
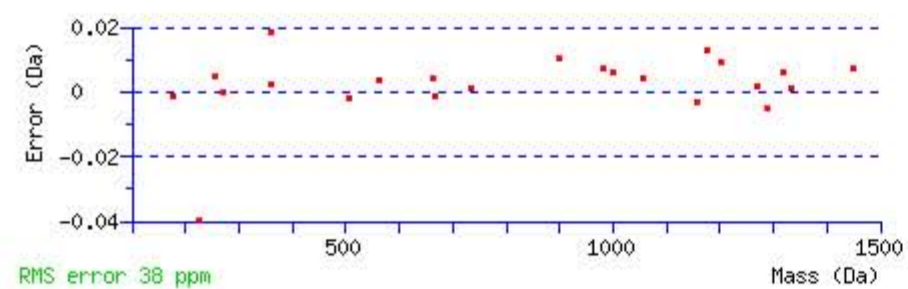
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 66 Expect: 4.8e-006

Matches : 23/100 fragment ions using 40 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							11
2	<b>227.175404</b>	114.091340					I	<b>1447.718454</b>	724.362865	1430.691905	715.849591	1429.707889	715.357583	10
3	387.206053	194.106664					C	<b>1334.634390</b>	<b>667.820833</b>	1317.607841	659.307559	<b>1316.623825</b>	658.815551	9
4	826.431379	413.719328	809.404830	405.206053			Q	<b>1174.603741</b>	587.805509	1157.577192	579.292234	<b>1156.593176</b>	578.800226	8
5	<b>897.468493</b>	449.237885	880.441944	440.724610			A	<b>735.378415</b>	368.192846	718.351866	359.679571	717.367850	<b>359.187563</b>	7
6	<b>998.516172</b>	499.761724	981.489623	491.248449	<b>980.505607</b>	490.756441	T	<b>664.341301</b>	332.674289	647.314752	324.161014	646.330736	323.669006	6
7	<b>1055.537636</b>	528.272456	1038.511087	519.759182	1037.527071	519.267174	G	<b>563.293622</b>	282.150449	546.267073	273.637175	545.283057	273.145167	5
8	<b>1202.606050</b>	601.806663	1185.579501	593.293389	1184.595485	592.801381	F	<b>506.272158</b>	253.639717	489.245609	245.126443	488.261593	244.634435	4
9	<b>1289.638078</b>	645.322677	1272.611529	636.809403	<b>1271.627513</b>	636.317395	S	<b>359.203744</b>	180.105510	342.177195	171.592236	341.193179	171.100228	3
10	1386.690842	693.849059	1369.664293	685.335785	1368.680277	684.843777	P	<b>272.171716</b>	136.589496	<b>255.145167</b>	128.076221			2
11							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LICQATGFSPR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
66.1	1559.795242	-0.001894	<a href="#">LICQATGFSPR</a>
8.9	1559.808960	-0.015612	<a href="#">LDRLSGLADQMVAR</a>
3.3	1559.770081	0.023267	<a href="#">ARCEVQFSPR</a>
2.5	1559.808975	-0.015627	<a href="#">LLDRDACDTRVK</a>
1.7	1559.787827	0.005521	<a href="#">SLHPAMLPAADGAGPR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **YVTSAPMPEPQAPGR**

Found in **IGHM\_HUMAN**, Ig mu chain C region OS=Homo sapiens GN=IGHM PE=1 SV=3

Match to Query 37641: 1910.930802 from(637.984210,3+) rtinseconds(1900) index(31109)

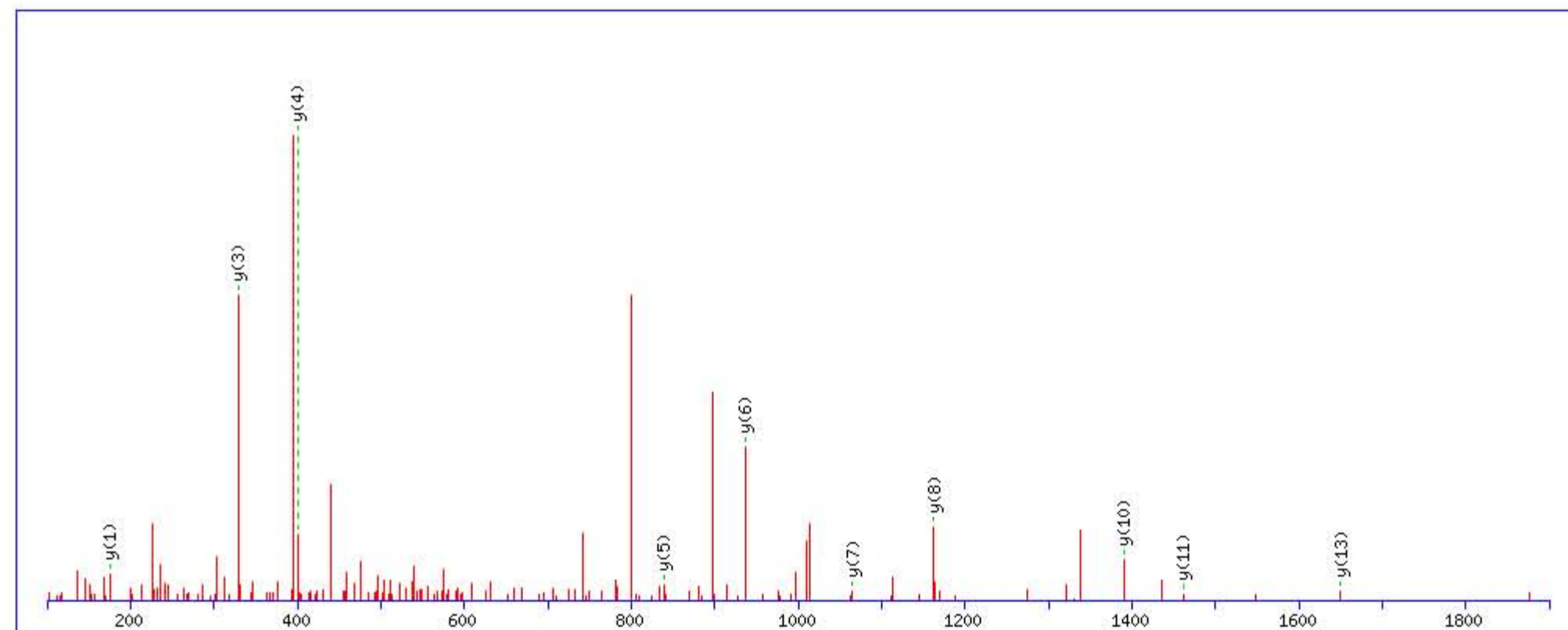
Title: Locus:1.1.1.3325.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1910.938263

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

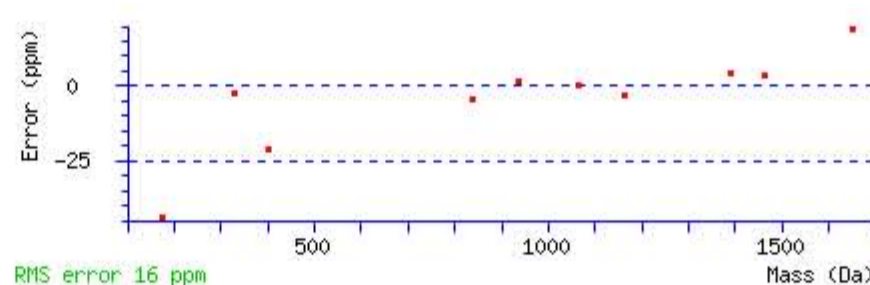
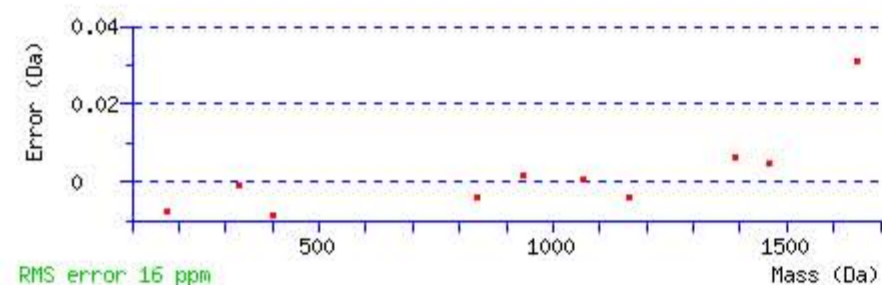
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 31 Expect: 0.02

Matches : 10/132 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							15
2	263.139019	132.073148					V	1748.882225	874.944750	1731.855676	866.431476	1730.871660	865.939468	14
3	364.186698	182.596987			346.176133	173.591705	T	<b>1649.813811</b>	825.410543	1632.787262	816.897269	1631.803246	816.405261	13
4	451.218726	226.113001			433.208161	217.107719	S	1548.766132	774.886704	1531.739583	766.373430	1530.755567	765.881421	12
5	522.255840	261.631558			504.245275	252.626276	A	<b>1461.734104</b>	731.370690	1444.707555	722.857416	1443.723539	722.365407	11
6	619.308604	310.157940			601.298039	301.152658	P	<b>1390.696990</b>	695.852133	1373.670441	687.338859	1372.686425	686.846850	10
7	750.349089	375.678183			732.338524	366.672900	M	1293.644226	647.325751	1276.617677	638.812477	1275.633661	638.320468	9
8	847.401853	424.204565			829.391288	415.199282	P	<b>1162.603741</b>	581.805508	1145.577192	573.292234	1144.593176	572.800226	8
9	976.444446	488.725861			958.433881	479.720579	E	<b>1065.550977</b>	533.279126	1048.524428	524.765852	1047.540412	524.273844	7
10	1073.497210	537.252243			1055.486645	528.246961	P	<b>936.508384</b>	468.757830	919.481835	460.244555			6
11	1512.722536	756.864906	1495.695987	748.351632	1494.711971	747.859624	Q	<b>839.455620</b>	420.231448	822.429071	411.718173			5
12	1583.759650	792.383463	1566.733101	783.870189	1565.749085	783.378180	A	<b>400.230294</b>	200.618785	383.203745	192.105510			4
13	1680.812414	840.909845	1663.785865	832.396571	1662.801849	831.904563	P	<b>329.193180</b>	165.100228	312.166631	156.586953			3
14	1737.833878	869.420577	1720.807329	860.907303	1719.823313	860.415294	G	232.140416	116.573846	215.113867	108.060571			2
15							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [YVTSAPMPEPQAPGR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
30.6	1910.938263	-0.007461	<a href="#">YVTSAPMPEPQAPGR</a>
22.6	1910.934265	-0.003463	<a href="#">SGSDEVQVGQQR</a>
22.6	1910.934265	-0.003463	<a href="#">SGSDEVQVGQQR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **YVTSAPMPEPQAPGR**

Found in **IGHM\_HUMAN**, Ig mu chain C region OS=Homo sapiens GN=IGHM PE=1 SV=3

Match to Query 37642: 1910.930802 from(637.984210,3+) rtinseconds(1891) index(31052)

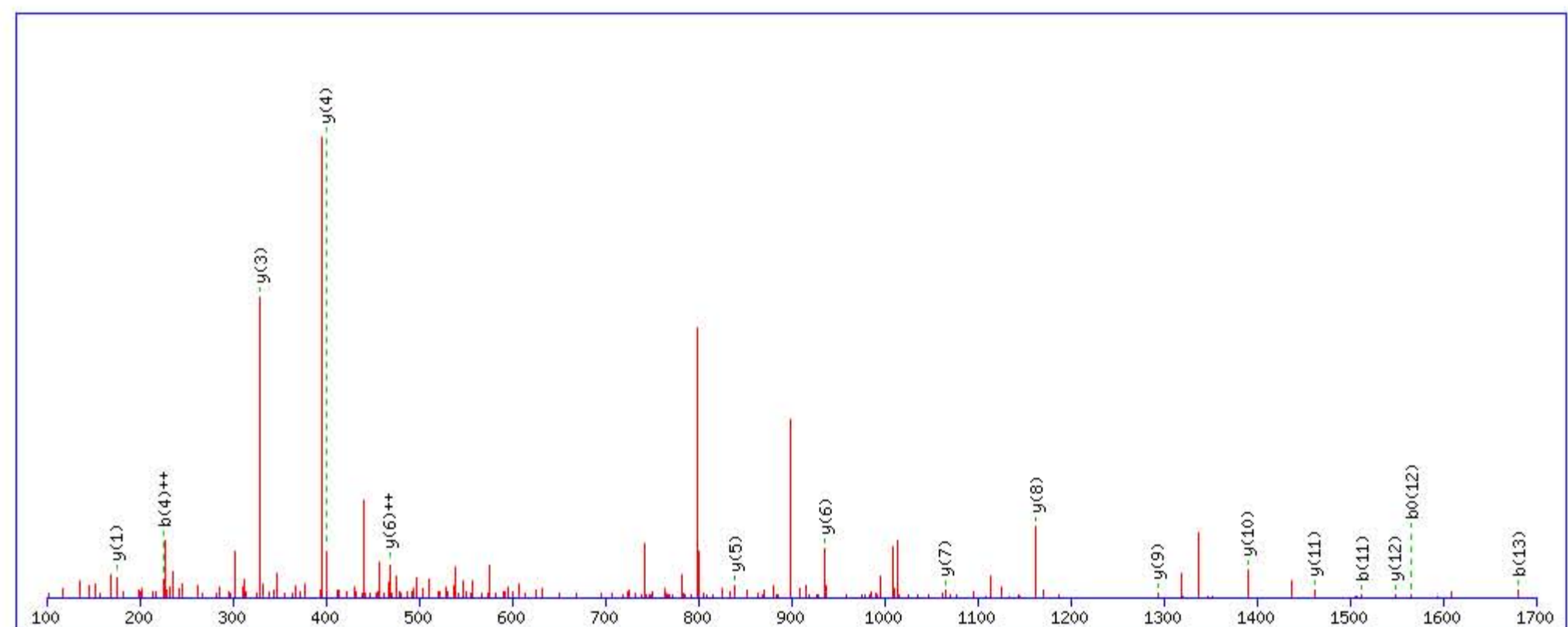
Title: Locus:1.1.1.3322.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1910.938263

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

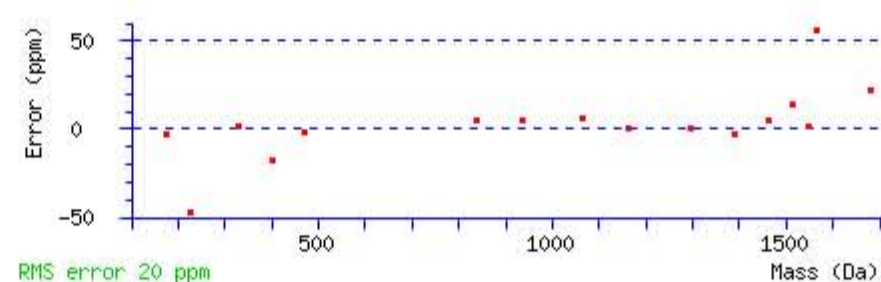
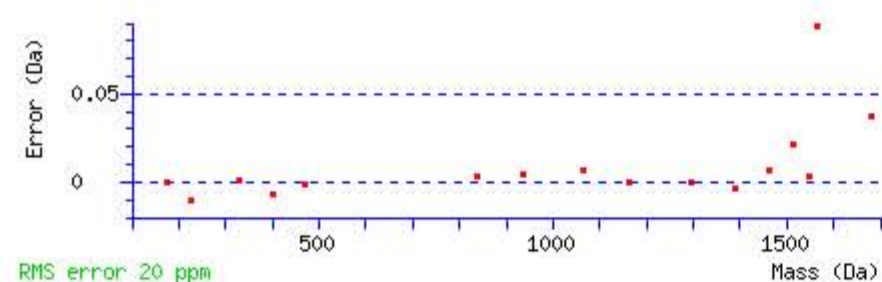
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.012

Matches : 16/132 fragment ions using 58 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							15
2	263.139019	132.073148					V	1748.882225	874.944750	1731.855676	866.431476	1730.871660	865.939468	14
3	364.186698	182.596987			346.176133	173.591705	T	1649.813811	825.410543	1632.787262	816.897269	1631.803246	816.405261	13
4	451.218726	<b>226.113001</b>			433.208161	217.107719	S	<b>1548.766132</b>	774.886704	1531.739583	766.373430	1530.755567	765.881421	12
5	522.255840	261.631558			504.245275	252.626276	A	<b>1461.734104</b>	731.370690	1444.707555	722.857416	1443.723539	722.365407	11
6	619.308604	310.157940			601.298039	301.152658	P	<b>1390.696990</b>	695.852133	1373.670441	687.338859	1372.686425	686.846850	10
7	750.349089	375.678183			732.338524	366.672900	M	<b>1293.644226</b>	647.325751	1276.617677	638.812477	1275.633661	638.320468	9
8	847.401853	424.204565			829.391288	415.199282	P	<b>1162.603741</b>	581.805508	1145.577192	573.292234	1144.593176	572.800226	8
9	976.444446	488.725861			958.433881	479.720579	E	<b>1065.550977</b>	533.279126	1048.524428	524.765852	1047.540412	524.273844	7
10	1073.497210	537.252243			1055.486645	528.246961	P	<b>936.508384</b>	<b>468.757830</b>	919.481835	460.244555			6
11	<b>1512.722536</b>	756.864906	1495.695987	748.351632	1494.711971	747.859624	Q	<b>839.455620</b>	420.231448	822.429071	411.718173			5
12	1583.759650	792.383463	1566.733101	783.870189	<b>1565.749085</b>	783.378180	A	<b>400.230294</b>	200.618785	383.203745	192.105510			4
13	<b>1680.812414</b>	840.909845	1663.785865	832.396571	1662.801849	831.904563	P	<b>329.193180</b>	165.100228	312.166631	156.586953			3
14	1737.833878	869.420577	1720.807329	860.907303	1719.823313	860.415294	G	232.140416	116.573846	215.113867	108.060571			2
15							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **YVTSAPMPEPQAPGR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
40.4	1910.934265	-0.003463	<a href="#">SGSDEVQVGQQR</a>
38.6	1910.934265	-0.003463	<a href="#">SGSDEVQVGQQR</a>
32.7	1910.938263	-0.007461	<a href="#">YVTSAPMPEPQAPGR</a>
1.6	1910.934265	-0.003463	<a href="#">SGSDEVQVGQQR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LVDPQGPLK**

Found in **FCGBP\_HUMAN**, IgGFc-binding protein OS=Homo sapiens GN=FCGBP PE=1 SV=3

Match to Query 19711: 1276.716068 from(639.365310,2+) rtinseconds(1909) index(31157)

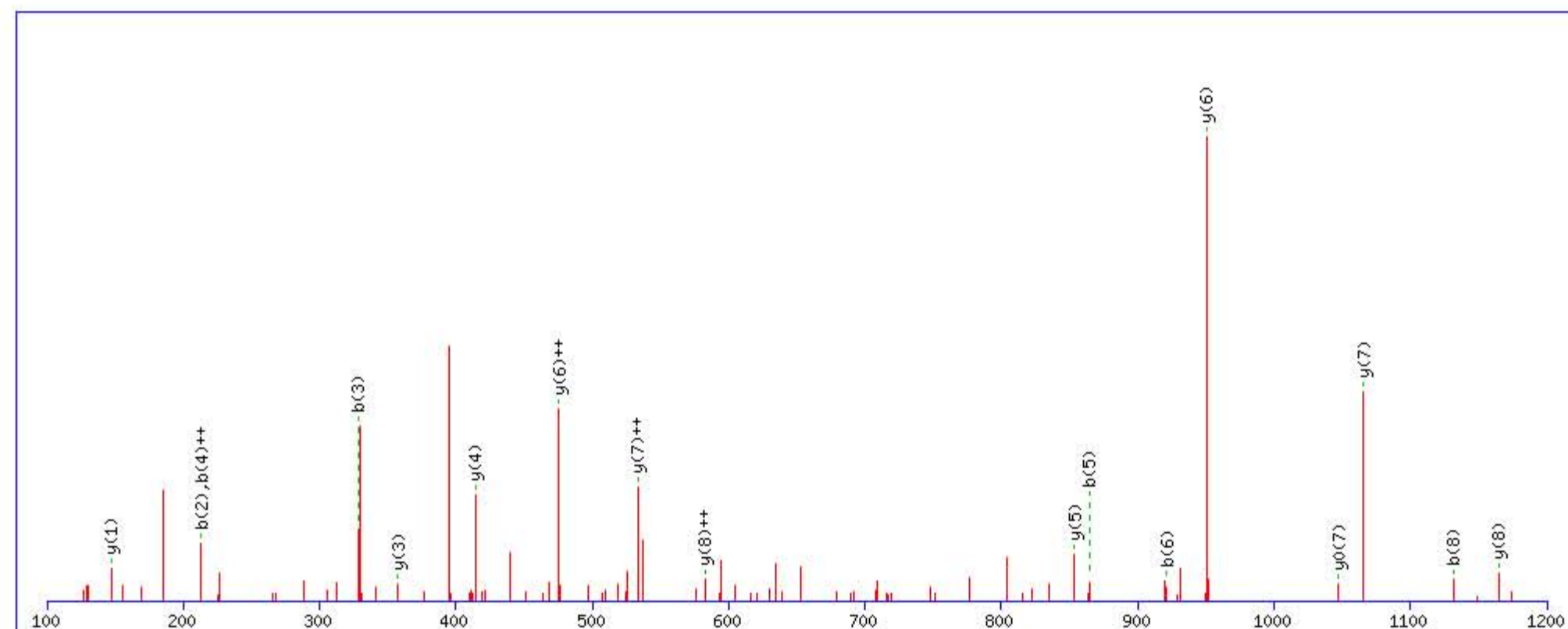
Title: Locus:1.1.1.3328.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1276.721329

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

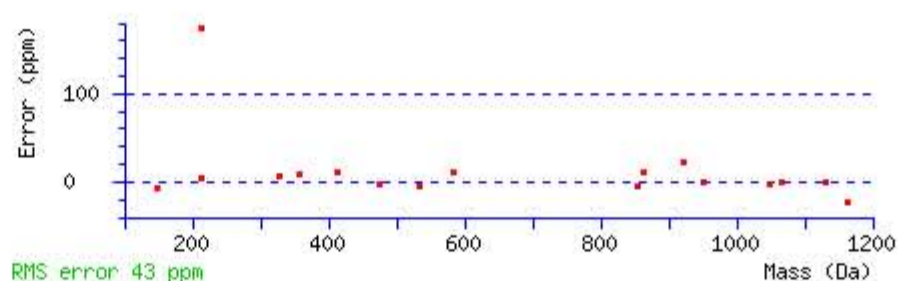
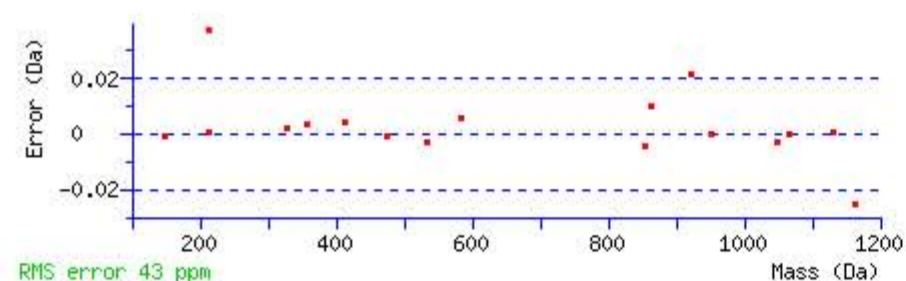
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.041

Matches : 17/72 fragment ions using 51 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							9
2	<b>213.159754</b>	107.083515					V	<b>1164.644543</b>	<b>582.825910</b>	1147.617994	574.312635	1146.633978	573.820627	8
3	<b>328.186697</b>	164.596986			310.176132	155.591704	D	<b>1065.576129</b>	<b>533.291703</b>	1048.549580	524.778428	<b>1047.565564</b>	524.286420	7
4	425.239461	<b>213.123368</b>			407.228896	204.118086	P	<b>950.549186</b>	<b>475.778231</b>	933.522637	467.264956			6
5	<b>864.464787</b>	432.736032	847.438238	424.222757	846.454222	423.730749	Q	<b>853.496422</b>	427.251849	836.469873	418.738575			5
6	<b>921.486251</b>	461.246764	904.459702	452.733489	903.475686	452.241481	G	<b>414.271096</b>	207.639186	397.244547	199.125911			4
7	1018.539015	509.773146	1001.512466	501.259871	1000.528450	500.767863	P	<b>357.249632</b>	179.128454	340.223083	170.615179			3
8	<b>1131.623079</b>	566.315178	1114.596530	557.801903	1113.612514	557.309895	L	260.196868	130.602072	243.170319	122.088797			2
9							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LVDPQGPLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
25.6	1276.721329	-0.005261	<a href="#">LVDPQGPLK</a>
13.6	1276.706039	0.010029	<a href="#">IVKDLMSKA EK</a>
12.7	1276.706726	0.009342	<a href="#">LVPDSL YVPFK</a>
5.2	1276.713913	0.002155	<a href="#">VIDAKFETKAR</a>
3.9	1276.717941	-0.001873	<a href="#">VLLYQPFELR</a>
2.6	1276.698669	0.017399	<a href="#">KTGKSATTALGDK</a>
0.8	1276.725128	-0.009060	<a href="#">QSL SRLAAYLR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LEDGVQACHATGCGR**

Found in **FCGBP\_HUMAN**, IgGfC-binding protein OS=Homo sapiens GN=FCGBP PE=1 SV=3

Match to Query 38176: 1940.862552 from(647.961460,3+) rtinseconds(1454) index(28510)

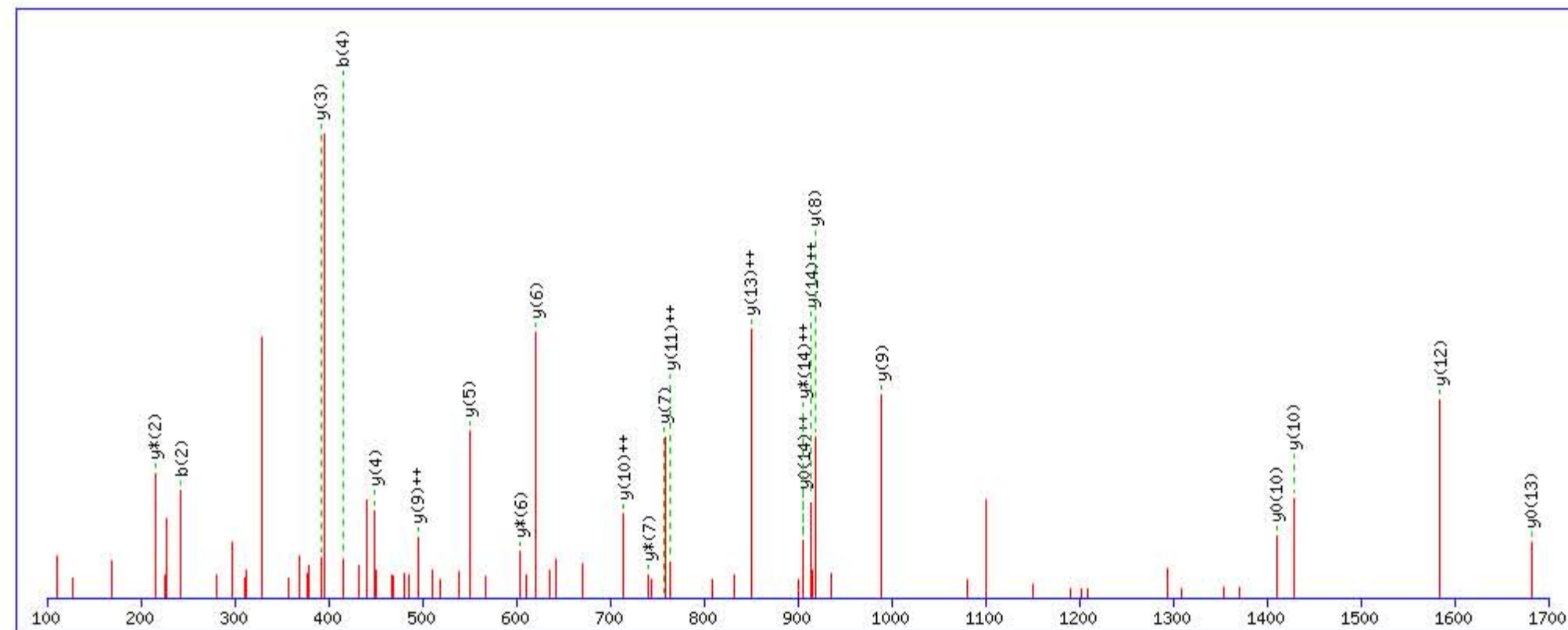
Title: Locus:1.1.1.3169.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1940.865540

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

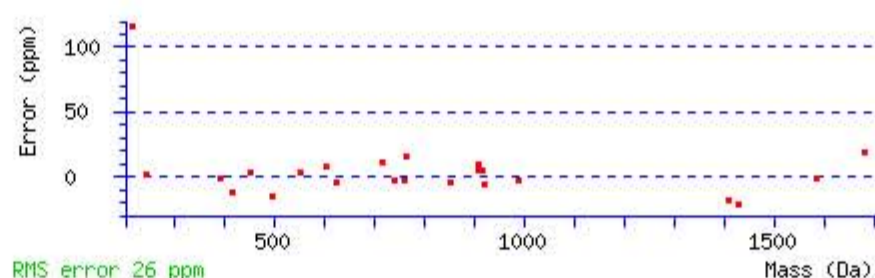
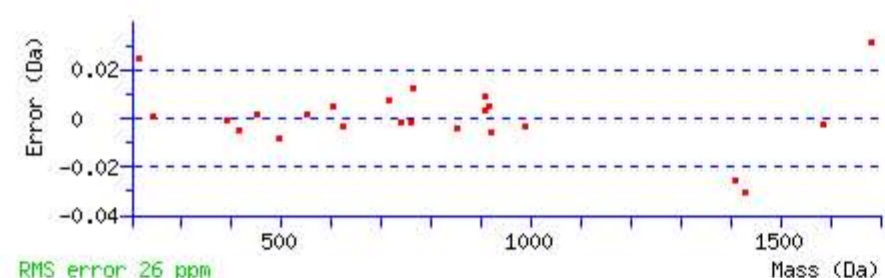
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 44 Expect: 0.00025

Matches : 23/148 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							15
2	<b>243.133933</b>	122.070605			225.123368	113.065322	E	1828.788737	<b>914.898006</b>	1811.762188	<b>906.384732</b>	1810.778172	<b>905.892724</b>	14
3	358.160876	179.584076			340.150311	170.578794	D	1699.746144	<b>850.376710</b>	1682.719595	841.863435	<b>1681.735579</b>	841.371427	13
4	<b>415.182340</b>	208.094808			397.171775	199.089526	G	<b>1584.719201</b>	792.863238	1567.692652	784.349964	1566.708636	783.857956	12
5	514.250754	257.629015			496.240189	248.623733	V	1527.697737	<b>764.352506</b>	1510.671188	755.839232	1509.687172	755.347224	11
6	953.476080	477.241678	936.449531	468.728404	935.465515	468.236396	Q	<b>1428.629323</b>	<b>714.818299</b>	1411.602774	706.305025	<b>1410.618758</b>	705.813017	10
7	1024.513194	512.760235	1007.486645	504.246960	1006.502629	503.754952	A	<b>989.403997</b>	<b>495.205636</b>	972.377448	486.692362	971.393432	486.200354	9
8	1184.543843	592.775559	1167.517294	584.262285	1166.533278	583.770277	C	<b>918.366883</b>	459.687079	901.340334	451.173805	900.356318	450.681797	8
9	1321.602755	661.305015	1304.576206	652.791741	1303.592190	652.299733	H	<b>758.336234</b>	379.671755	<b>741.309685</b>	371.158480	740.325669	370.666472	7
10	1392.639869	696.823572	1375.613320	688.310298	1374.629304	687.818290	A	<b>621.277322</b>	311.142299	<b>604.250773</b>	302.629024	603.266757	302.137016	6
11	1493.687548	747.347412	1476.660999	738.834138	1475.676983	738.342129	T	<b>550.240208</b>	275.623742	533.213659	267.110467	532.229643	266.618459	5
12	1550.709012	775.858144	1533.682463	767.344869	1532.698447	766.852861	G	<b>449.192529</b>	225.099902	432.165980	216.586628			4
13	1710.739661	855.873468	1693.713112	847.360194	1692.729096	846.868186	C	<b>392.171065</b>	196.589170	375.144516	188.075896			3
14	1767.761125	884.384200	1750.734576	875.870926	1749.750560	875.378918	G	232.140416	116.573846	<b>215.113867</b>	108.060571			2
15							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LEDGVQACHATGCGR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
43.8	1940.865540	-0.002988	<a href="#">LEDGVQACHATGCGR</a>

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



**MASCOT SEARCH RESULTS**

Peptide View

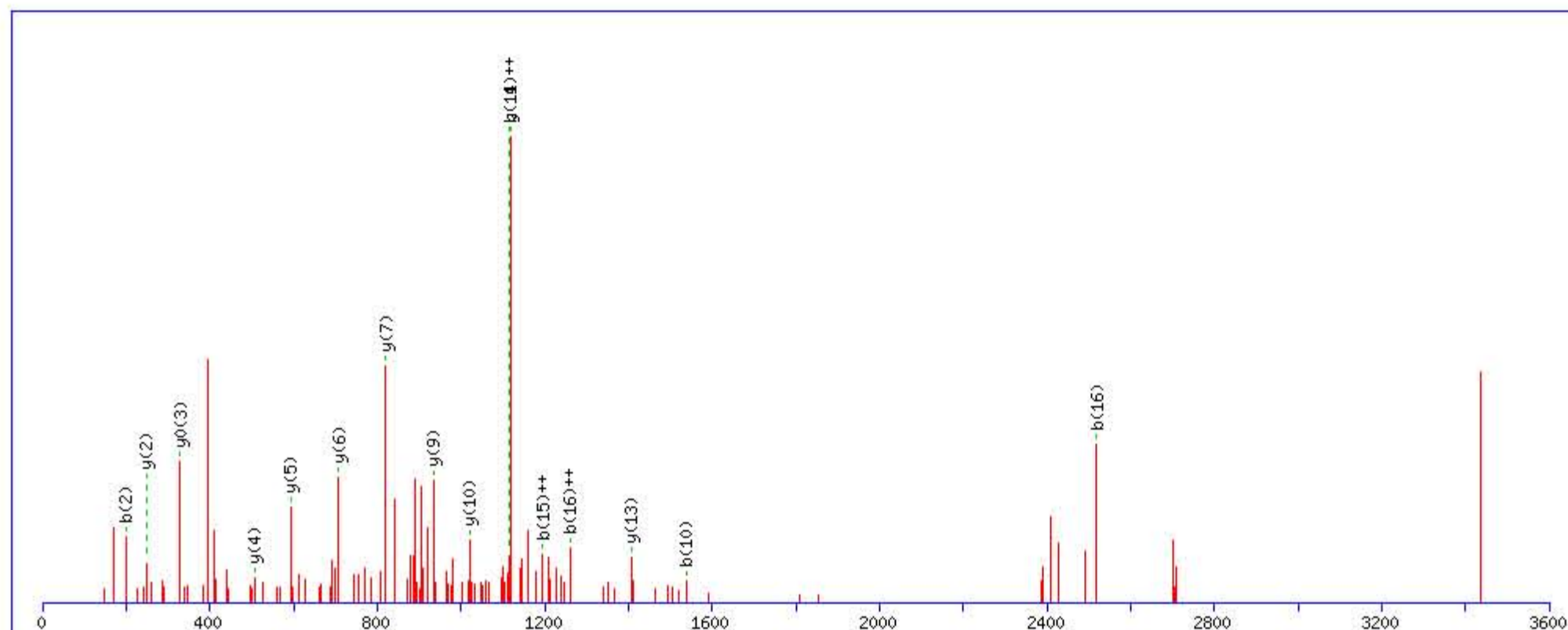
MS/MS Fragmentation of **VVVCQEHSCKPGQVCQPSGGILSCVTK**  
 Found in **FCGBP\_HUMAN**, IgGfC-binding protein OS=Homo sapiens GN=FCGBP PE=1 SV=3

Match to Query 60612: 3635.747496 from(909.944150,4+) rtinseconds(2010) index(31976)  
 Title: Locus:1.1.1.3363.23 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

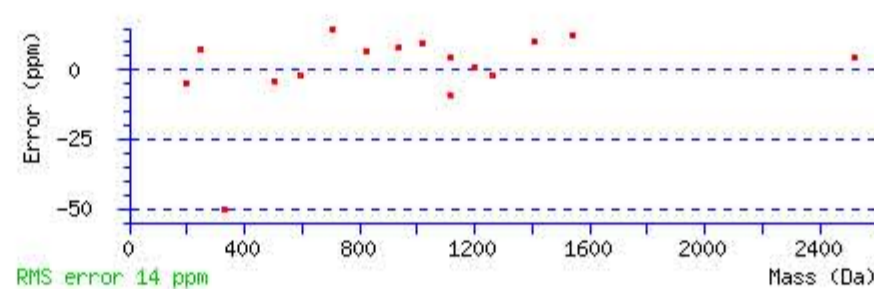
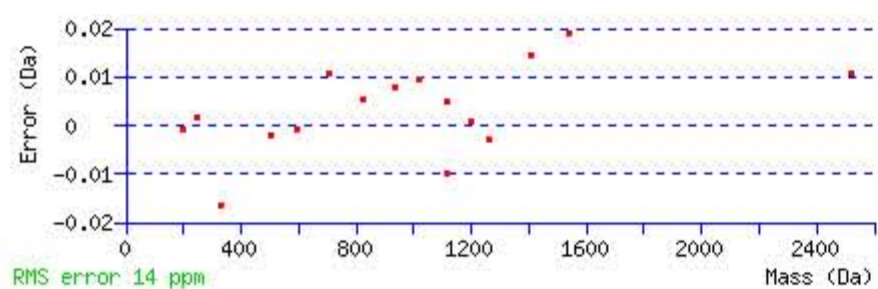
Or, Plot from 0 to 3600 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3635.757751  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q5 : Biotin:Thermo-21345 (Q)  
 Q13 : Biotin:Thermo-21345 (Q)  
 Ions Score: 31 Expect: 0.016  
 Matches : 16/292 fragment ions using 38 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							27
2	<b>199.144104</b>	100.075690					V	3537.696565	1769.351920	3520.670016	1760.838646	3519.686000	1760.346638	26
3	298.212518	149.609897					V	3438.628151	1719.817713	3421.601602	1711.304439	3420.617586	1710.812431	25
4	458.243167	229.625222					C	3339.559737	1670.283506	3322.533188	1661.770232	3321.549172	1661.278224	24
5	897.468493	449.237885	880.441944	440.724610			Q	3179.529088	1590.268182	3162.502539	1581.754907	3161.518523	1581.262899	23
6	1026.511086	513.759181	1009.484537	505.245907	1008.500521	504.753899	E	2740.303762	1370.655519	2723.277213	1362.142244	2722.293197	1361.650236	22
7	1163.569998	582.288637	1146.543449	573.775363	1145.559433	573.283355	H	2611.261169	1306.134222	2594.234620	1297.620948	2593.250604	1297.128940	21
8	1250.602026	625.804651	1233.575477	617.291377	1232.591461	616.799369	S	2474.202257	1237.604766	2457.175708	1229.091492	2456.191692	1228.599484	20
9	1410.632675	705.819976	1393.606126	697.306701	1392.622110	696.814693	C	2387.170229	1194.088752	2370.143680	1185.575478	2369.159664	1185.083470	19
10	<b>1538.727638</b>	769.867457	1521.701089	761.354183	1520.717073	760.862175	K	2227.139580	1114.073428	2210.113031	1105.560153	2209.129015	1105.068145	18
11	1635.780402	818.393839	1618.753853	809.880565	1617.769837	809.388557	P	2099.044617	1050.025946	2082.018068	1041.512672	2081.034052	1041.020664	17
12	1692.801866	846.904571	1675.775317	838.391297	1674.791301	837.899289	G	2001.991853	1001.499564	1984.965304	992.986290	1983.981288	992.494282	16
13	2132.027192	1066.517234	2115.000643	1058.003959	2114.016627	1057.511951	Q	1944.970389	972.988832	1927.943840	964.475558	1926.959824	963.983550	15
14	2231.095606	<b>1116.051441</b>	2214.069057	1107.538166	2213.085041	1107.046158	V	1505.745063	753.376169	1488.718514	744.862895	1487.734498	744.370887	14
15	2391.126255	<b>1196.066765</b>	2374.099706	1187.553491	2373.115690	1187.061483	C	<b>1406.676649</b>	703.841962	1389.650100	695.328688	1388.666084	694.836680	13
16	<b>2519.184833</b>	<b>1260.096054</b>	2502.158284	1251.582780	2501.174268	1251.090772	Q	1246.646000	623.826638	1229.619451	615.313364	1228.635435	614.821355	12
17	2616.237597	1308.622436	2599.211048	1300.109162	2598.227032	1299.617154	P	<b>1118.587422</b>	559.797349	1101.560873	551.284074	1100.576857	550.792066	11
18	2703.269625	1352.138450	2686.243076	1343.625176	2685.259060	1343.133168	S	<b>1021.534658</b>	511.270967	1004.508109	502.757692	1003.524093	502.265684	10
19	2760.291089	1380.649182	2743.264540	1372.135908	2742.280524	1371.643900	G	<b>934.502630</b>	467.754953	917.476081	459.241678	916.492065	458.749670	9
20	2817.312553	1409.159914	2800.286004	1400.646640	2799.301988	1400.154632	G	877.481166	439.244221	860.454617	430.730946	859.470601	430.238938	8
21	2930.396617	1465.701946	2913.370068	1457.188672	2912.386052	1456.696664	I	<b>820.459702</b>	410.733489	803.433153	402.220214	802.449137	401.728206	7
22	3043.480681	1522.243978	3026.454132	1513.730704	3025.470116	1513.238696	L	<b>707.375638</b>	354.191457	690.349089	345.678182	689.365073	345.186174	6
23	3130.512709	1565.759993	3113.486160	1557.246718	3112.502144	1556.754710	S	<b>594.291574</b>	297.649425	577.265025	289.136150	576.281009	288.644142	5
24	3290.543358	1645.775317	3273.516809	1637.262042	3272.532793	1636.770034	C	<b>507.259546</b>	254.133411	490.232997	245.620136	489.248981	245.128128	4
25	3389.611772	1695.309524	3372.585223	1686.796249	3371.601207	1686.304241	V	347.228897	174.118086	330.202348	165.604812	<b>329.218332</b>	165.112804	3
26	3490.659451	1745.833363	3473.632902	1737.320089	3472.648886	1736.828081	T	<b>248.160483</b>	124.583879	231.133934	116.070605	230.149918	115.578597	2
27							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VVVCQEHSCKPGQVCQPSGGILSCVTK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
31.4	3635.757751	-0.010255	<a href="#">VVVCQEHSCKPGQVCQPSGGILSCVTK</a>
20.4	3635.757751	-0.010255	<a href="#">VVVCQEHSCKPGQVCQPSGGILSCVTK</a>
20.3	3635.757751	-0.010255	<a href="#">VVVCQEHSCKPGQVCQPSGGILSCVTK</a>

# *MATRIX* SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **LEQYEGPGFCGPLAPGTGGPFTTCHAHVPPESFFK**

Found in **FCGBP\_HUMAN**, IgGfC-binding protein OS=Homo sapiens GN=FCGBP PE=1 SV=3

Match to Query 63728: 4099.908136 from(1025.984310,4+) rtinseconds(2513) index(34697)

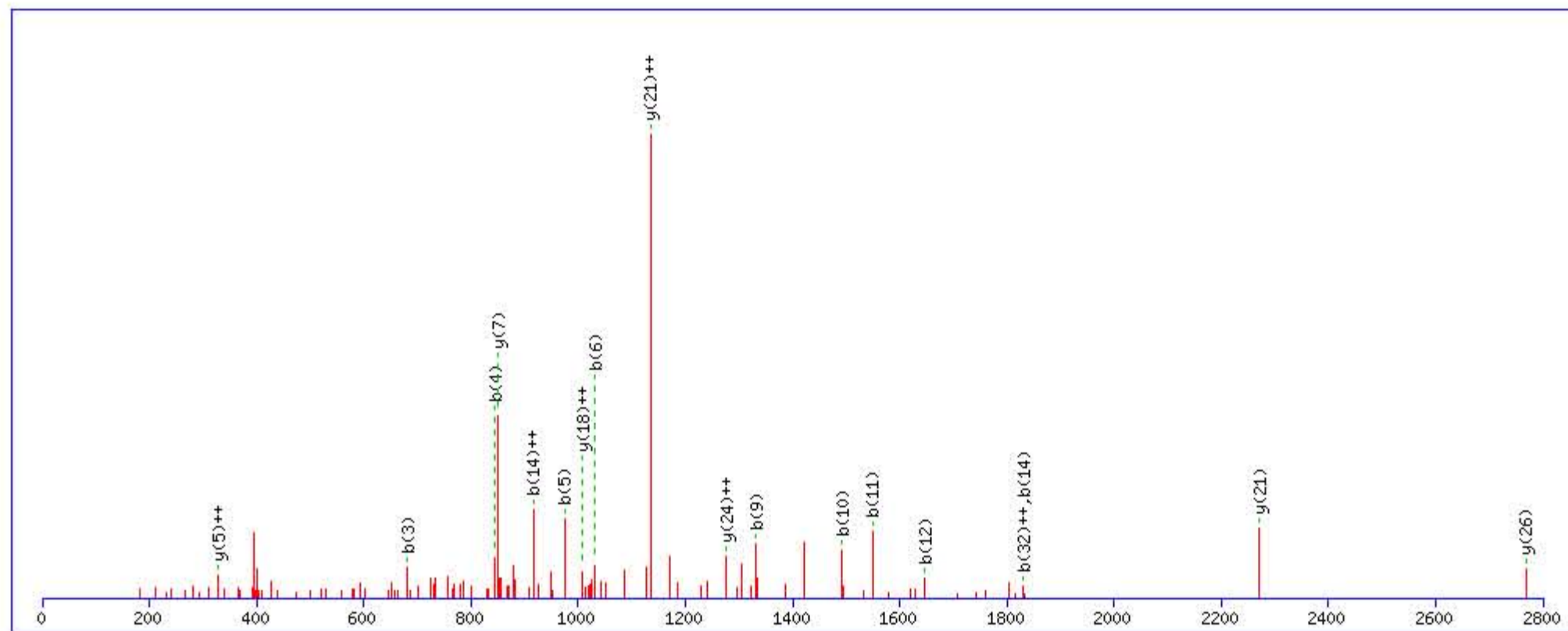
Title: Locus:1.1.1.3538.26 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 4099.905991

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

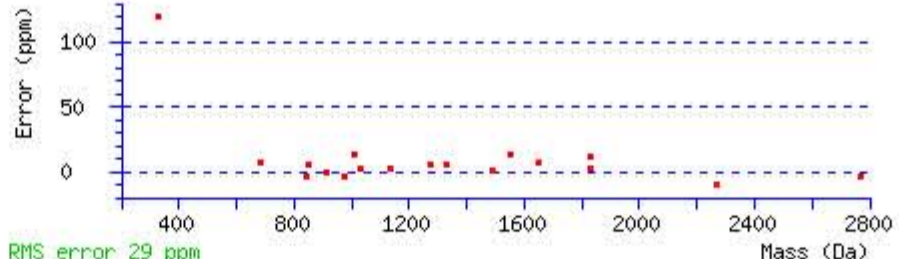
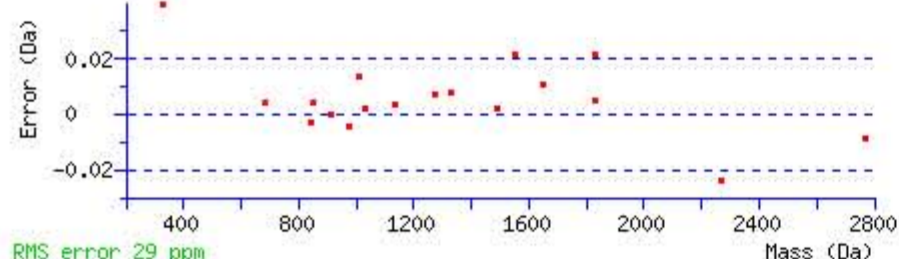
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.0089

Matches : 18/396 fragment ions using 37 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							35
2	243.133933	122.070605			225.123368	113.065322	E	3987.829155	1994.418215	3970.802606	1985.904941	3969.818590	1985.412933	34
3	<b>682.359259</b>	341.683268	665.332710	333.169993	664.348694	332.677985	Q	3858.786562	1929.896919	3841.760013	1921.383644	3840.775997	1920.891636	33
4	<b>845.422588</b>	423.214932	828.396039	414.701658	827.412023	414.209650	Y	3419.561236	1710.284256	3402.534687	1701.770981	3401.550671	1701.278973	32
5	<b>974.465181</b>	487.736229	957.438632	479.222954	956.454616	478.730946	E	3256.497907	1628.752591	3239.471358	1620.239317	3238.487342	1619.747309	31
6	<b>1031.486645</b>	516.246961	1014.460096	507.733686	1013.476080	507.241678	G	3127.455314	1564.231295	3110.428765	1555.718020	3109.444749	1555.226012	30
7	1128.539409	564.773343	1111.512860	556.260068	1110.528844	555.768060	P	3070.433850	1535.720563	3053.407301	1527.207288	3052.423285	1526.715280	29
8	1185.560873	593.284075	1168.534324	584.770800	1167.550308	584.278792	G	2973.381086	1487.194181	2956.354537	1478.680906	2955.370521	1478.188898	28
9	<b>1332.629287</b>	666.818282	1315.602738	658.305007	1314.618722	657.812999	F	2916.359622	1458.683449	2899.333073	1450.170174	2898.349057	1449.678166	27
10	<b>1492.659936</b>	746.833606	1475.633387	738.320332	1474.649371	737.828324	C	<b>2769.291208</b>	1385.149242	2752.264659	1376.635967	2751.280643	1376.143959	26
11	<b>1549.681400</b>	775.344338	1532.654851	766.831064	1531.670835	766.339056	G	2609.260559	1305.133917	2592.234010	1296.620643	2591.249994	1296.128635	25
12	<b>1646.734164</b>	823.870720	1629.707615	815.357446	1628.723599	814.865438	P	2552.239095	<b>1276.623185</b>	2535.212546	1268.109911	2534.228530	1267.617903	24
13	1759.818228	880.412752	1742.791679	871.899478	1741.807663	871.407470	L	2455.186331	1228.096803	2438.159782	1219.583529	2437.175766	1219.091521	23
14	<b>1830.855342</b>	<b>915.931309</b>	1813.828793	907.418035	1812.844777	906.926027	A	2342.102267	1171.554771	2325.075718	1163.041497	2324.091702	1162.549489	22
15	1927.908106	964.457691	1910.881557	955.944417	1909.897541	955.452409	P	<b>2271.065153</b>	<b>1136.036214</b>	2254.038604	1127.522940	2253.054588	1127.030932	21
16	1984.929570	992.968423	1967.903021	984.455149	1966.919005	983.963141	G	2174.012389	1087.509832	2156.985840	1078.996558	2156.001824	1078.504550	20
17	2085.977249	1043.492262	2068.950700	1034.978988	2067.966684	1034.486980	T	2116.990925	1058.999100	2099.964376	1050.485826	2098.980360	1049.993818	19
18	2142.998713	1072.002994	2125.972164	1063.489720	2124.988148	1062.997712	G	2015.943246	<b>1008.475261</b>	1998.916697	999.961986	1997.932681	999.469978	18
19	2200.020177	1100.513726	2182.993628	1092.000452	2182.009612	1091.508444	G	1958.921782	979.964529	1941.895233	971.451254	1940.911217	970.959246	17
20	2297.072941	1149.040108	2280.046392	1140.526834	2279.062376	1140.034826	P	1901.900318	951.453797	1884.873769	942.940522	1883.889753	942.448514	16
21	2444.141355	1222.574315	2427.114806	1214.061041	2426.130790	1213.569033	F	1804.847554	902.927415	1787.821005	894.414140	1786.836989	893.922132	15
22	2545.189034	1273.098155	2528.162485	1264.584880	2527.178469	1264.092872	T	1657.779140	829.393208	1640.752591	820.879933	1639.768575	820.387925	14
23	2646.236713	1323.621994	2629.210164	1315.108720	2628.226148	1314.616712	T	1556.731461	778.869368	1539.704912	770.356094	1538.720896	769.864086	13
24	2806.267362	1403.637319	2789.240813	1395.124044	2788.256797	1394.632036	C	1455.683782	728.345529	1438.657233	719.832254	1437.673217	719.340246	12
25	2943.326274	1472.166775	2926.299725	1463.653500	2925.315709	1463.161492	H	1295.653133	648.330205	1278.626584	639.816930	1277.642568	639.324922	11
26	3014.363388	1507.685332	2997.336839	1499.172057	2996.352823	1498.680049	A	1158.594221	579.800749	1141.567672	571.287474	1140.583656	570.795466	10
27	3151.422300	1576.214788	3134.395751	1567.701513	3133.411735	1567.209505	H	1087.557107	544.282191	1070.530558	535.768917	1069.546542	535.276909	9
28	3250.490714	1625.748995	3233.464165	1617.235720	3232.480149	1616.743712	V	950.498195	475.752735	933.471646	467.239461	932.487630	466.747453	8
29	3347.543478	1674.275377	3330.516929	1665.762102	3329.532913	1665.270094	P	<b>851.429781</b>	426.218529	834.403232	417.705254	833.419216	417.213246	7
30	3444.596242	1722.801759	3427.569693	1714.288484	3426.585677	1713.796476	P	754.377017	377.692147	737.350468	369.178872	736.366452	368.686864	6
31	3573.638835	1787.323055	3556.612286	1778.809781	3555.628270	1778.317773	E	657.324253	<b>329.165765</b>	640.297704	320.652490	639.313688	320.160482	5
32	3660.670863	<b>1830.839069</b>	3643.644314	1822.325795	3642.660298	1821.833787	S	528.281660	264.644468	511.255111	256.131193	510.271095	255.639185	4
33	3807.739277	1904.373276	3790.712728	1895.860002	3789.728712	1895.367994	F	441.249632	221.128454	424.223083	212.615179			3
34	3954.807691	1977.907483	3937.781142	1969.394209	3936.797126	1968.902201	F	294.181218	147.594247	277.154669	139.080972			2
35							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [LEQYEGPGFCGPLAPGTGGPFTTCHAHVPPESFFK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
32.0	4099.905991	0.002145	<a href="#">LEQYEGPGFCGPLAPGTGGPFTTCHAHVPPESFFK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **DFALQNPSAVPR**

Found in **ALS\_HUMAN**, Insulin-like growth factor-binding protein complex acid labile subunit OS=Homo sapiens GN=IGFALS PE=1 SV=1

Match to Query 31602: 1624.832108 from(813.423330,2+) rtinseconds(2181) index(32936)

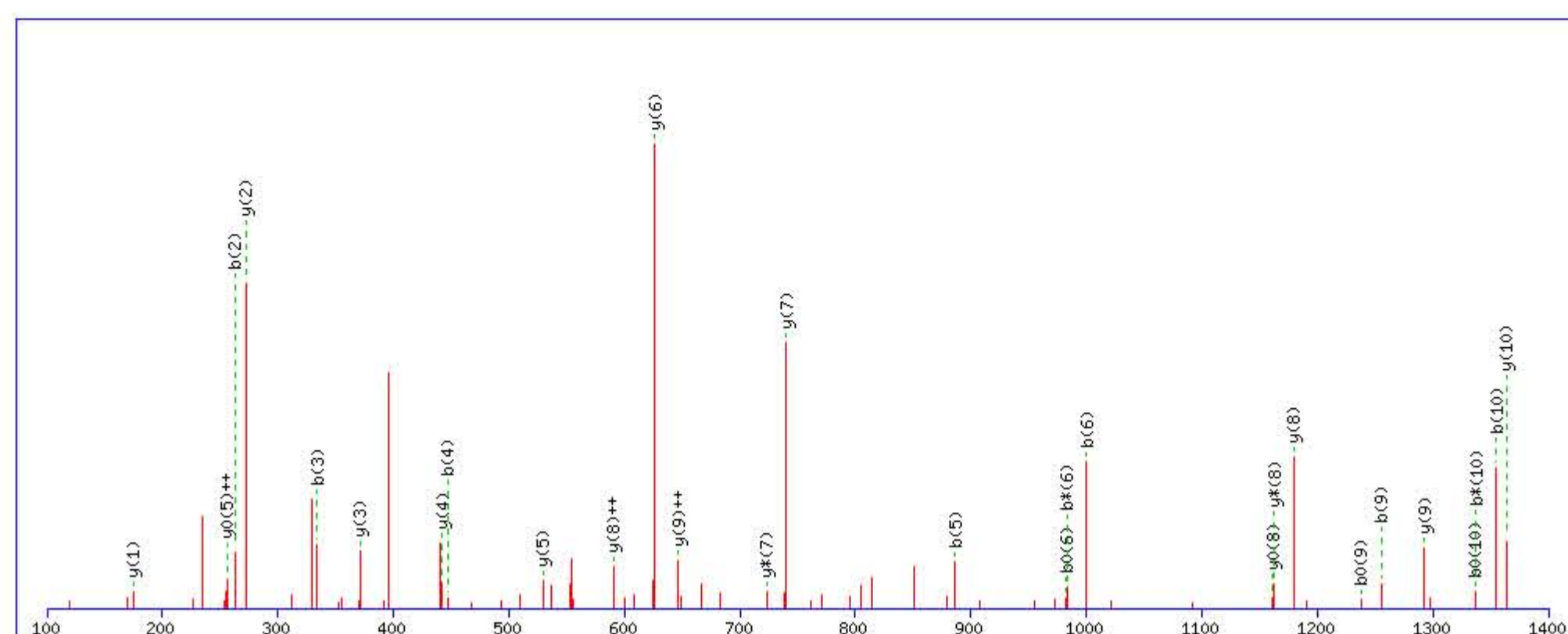
Title: Locus:1.1.1.3423.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1624.839539

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

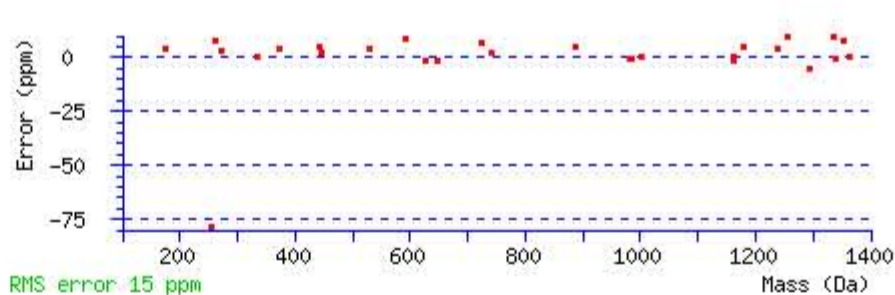
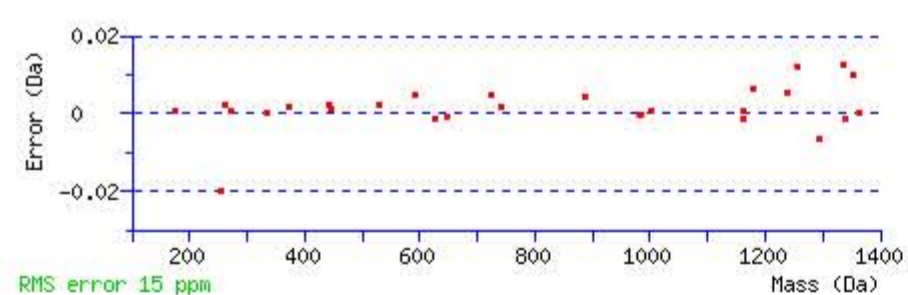
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 65 Expect: 7e-006

Matches : 28/116 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							12
2	<b>263.102633</b>	132.054954			245.092068	123.049672	F	1510.819881	755.913579	1493.793332	747.400304	1492.809316	746.908296	11
3	<b>334.139747</b>	167.573512			316.129182	158.568229	A	<b>1363.751467</b>	682.379372	1346.724918	673.866097	1345.740902	673.374089	10
4	<b>447.223811</b>	224.115544			429.213246	215.110261	L	<b>1292.714353</b>	<b>646.860815</b>	1275.687804	638.347540	1274.703788	637.855532	9
5	<b>886.449137</b>	443.728207	869.422588	435.214932	868.438572	434.722924	Q	<b>1179.630289</b>	<b>590.318783</b>	<b>1162.603740</b>	581.805508	<b>1161.619724</b>	581.313500	8
6	<b>1000.492064</b>	500.749670	<b>983.465515</b>	492.236396	<b>982.481499</b>	491.744388	N	<b>740.404963</b>	370.706120	<b>723.378414</b>	362.192845	722.394398	361.700837	7
7	1097.544828	549.276052	1080.518279	540.762778	1079.534263	540.270770	P	<b>626.362036</b>	313.684656	609.335487	305.171382	608.351471	304.679374	6
8	1184.576856	592.792066	1167.550307	584.278792	1166.566291	583.786784	S	<b>529.309272</b>	265.158274	512.282723	256.645000	511.298707	<b>256.152992</b>	5
9	<b>1255.613970</b>	628.310623	1238.587421	619.797349	<b>1237.603405</b>	619.305341	A	<b>442.277244</b>	221.642260	425.250695	213.128986			4
10	<b>1354.682384</b>	677.844830	<b>1337.655835</b>	669.331556	<b>1336.671819</b>	668.839548	V	<b>371.240130</b>	186.123703	354.213581	177.610429			3
11	1451.735148	726.371212	1434.708599	717.857938	1433.724583	717.365930	P	<b>272.171716</b>	136.589496	255.145167	128.076221			2
12							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **DFALQNPSAVPR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
65.3	1624.839539	-0.007431	<a href="#">DFALQNPSAVPR</a>
13.8	1624.853271	-0.021163	<a href="#">ASDPVRTGSEGLALPR</a>
9.2	1624.816406	0.015702	<a href="#">SVMIGTALNTSEMKK</a>
5.5	1624.854813	-0.022705	<a href="#">QWVAAGGHITFK</a>
3.8	1624.832092	0.000016	<a href="#">AAAAAAALESWQAAAPR</a>
2.4	1624.820892	0.011216	<a href="#">SSISNNYLNLTFFPR</a>
2.3	1624.829636	0.002472	<a href="#">NVDKWLWMLGAHR</a>
2.2	1624.850296	-0.018188	<a href="#">QQLQMEVK</a>
1.6	1624.817062	0.015046	<a href="#">GYYLEMLIGTPPOK</a>
0.5	1624.850784	-0.018676	<a href="#">FCSFLQTSKVRPR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LAELPADALGPLQR**

Found in **ALS\_HUMAN**, Insulin-like growth factor-binding protein complex acid labile subunit OS=Homo sapiens GN=IGFALS PE=1 SV=1

Match to Query 35240: 1773.978348 from(887.996450,2+) rtinseconds(2483) index(34445)

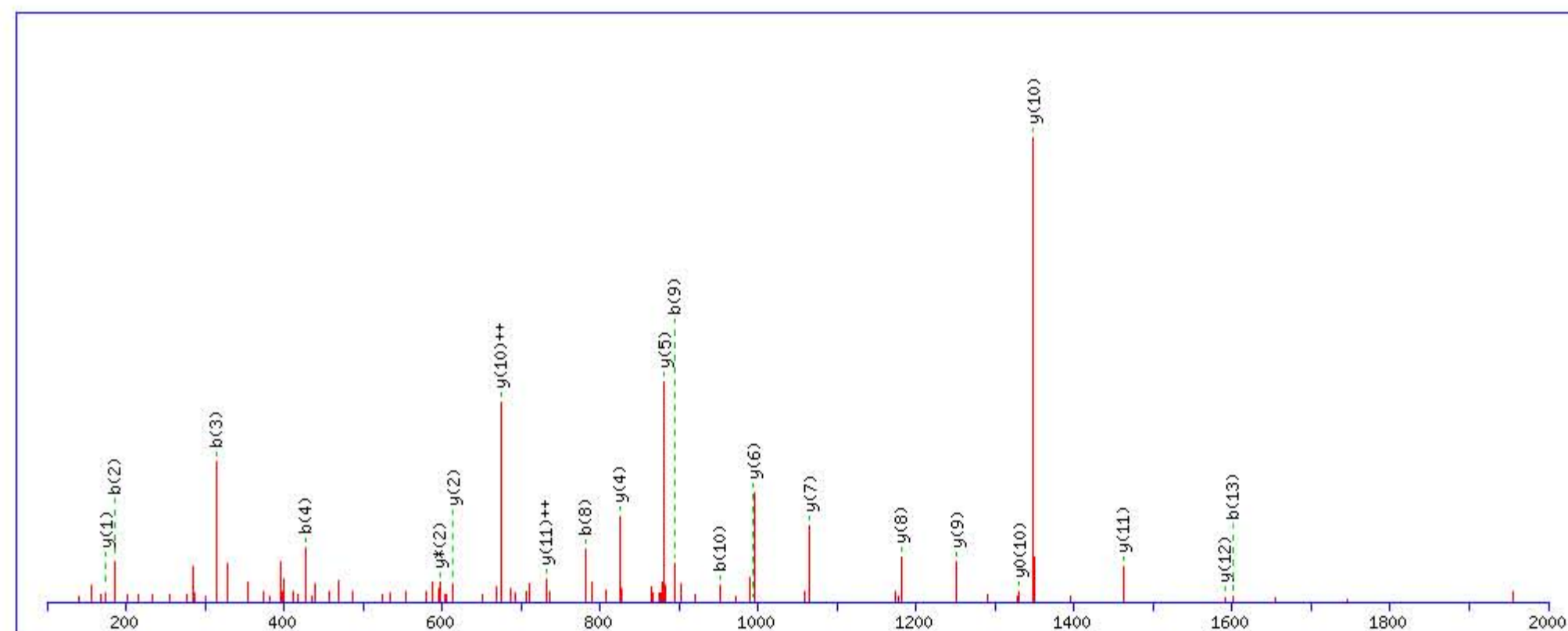
Title: Locus:1.1.1.3528.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1773.981094

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

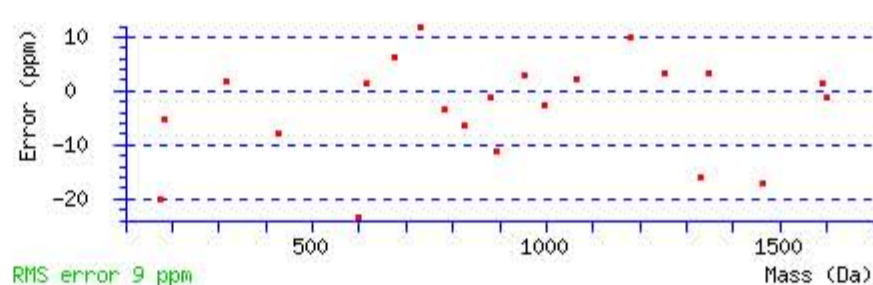
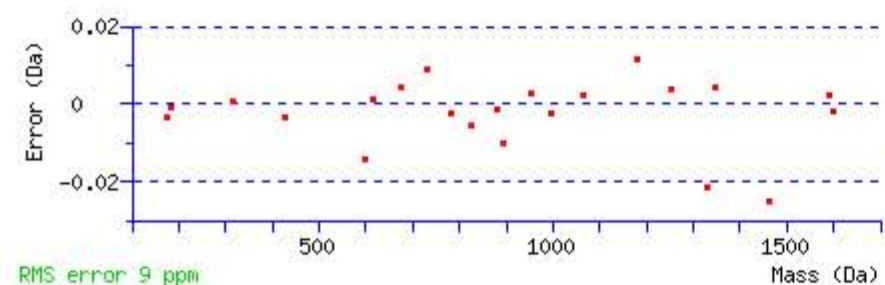
Variable modifications:

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 70 Expect: 4.4e-007

Matches : 22/114 fragment ions using 44 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							14
2	<b>185.128454</b>	93.067865					A	1661.904340	831.455808	1644.877791	822.942534	1643.893775	822.450526	13
3	<b>314.171047</b>	157.589161			296.160482	148.583879	E	<b>1590.867226</b>	795.937251	1573.840677	787.423977	1572.856661	786.931969	12
4	<b>427.255111</b>	214.131193			409.244546	205.125911	L	<b>1461.824633</b>	<b>731.415955</b>	1444.798084	722.902680	1443.814068	722.410672	11
5	524.307875	262.657576			506.297310	253.652293	P	<b>1348.740569</b>	<b>674.873922</b>	1331.714020	666.360648	<b>1330.730004</b>	665.868640	10
6	595.344989	298.176133			577.334424	289.170850	A	<b>1251.687805</b>	626.347540	1234.661256	617.834266	1233.677240	617.342258	9
7	710.371932	355.689604			692.361367	346.684322	D	<b>1180.650691</b>	590.828984	1163.624142	582.315709	1162.640126	581.823701	8
8	<b>781.409046</b>	391.208161			763.398481	382.202879	A	<b>1065.623748</b>	533.315512	1048.597199	524.802238			7
9	<b>894.493110</b>	447.750193			876.482545	438.744911	L	<b>994.586634</b>	497.796955	977.560085	489.283681			6
10	<b>951.514574</b>	476.260925			933.504009	467.255643	G	<b>881.502570</b>	441.254923	864.476021	432.741649			5
11	1048.567338	524.787307			1030.556773	515.782025	P	<b>824.481106</b>	412.744191	807.454557	404.230916			4
12	1161.651402	581.329339			1143.640837	572.324056	L	727.428342	364.217809	710.401793	355.704534			3
13	<b>1600.876728</b>	800.942002	1583.850179	792.428728	1582.866163	791.936719	Q	<b>614.344278</b>	307.675777	<b>597.317729</b>	299.162503			2
14							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [LAELPADALGPLQR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
70.5	1773.981094	-0.002746	<a href="#">LAELPADALGPLQR</a>
2.7	1773.963821	0.014527	<a href="#">ALEPPSGVLHFQPRAR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SFEGLGQLEVLTLTDHNLQLEVK**

Found in **ALS\_HUMAN**, Insulin-like growth factor-binding protein complex acid labile subunit OS=Homo sapiens GN=IGFALS PE=1 SV=1

Match to Query 51637: 2807.452332 from(936.824720,3+) rtinseconds(2721) index(36005)

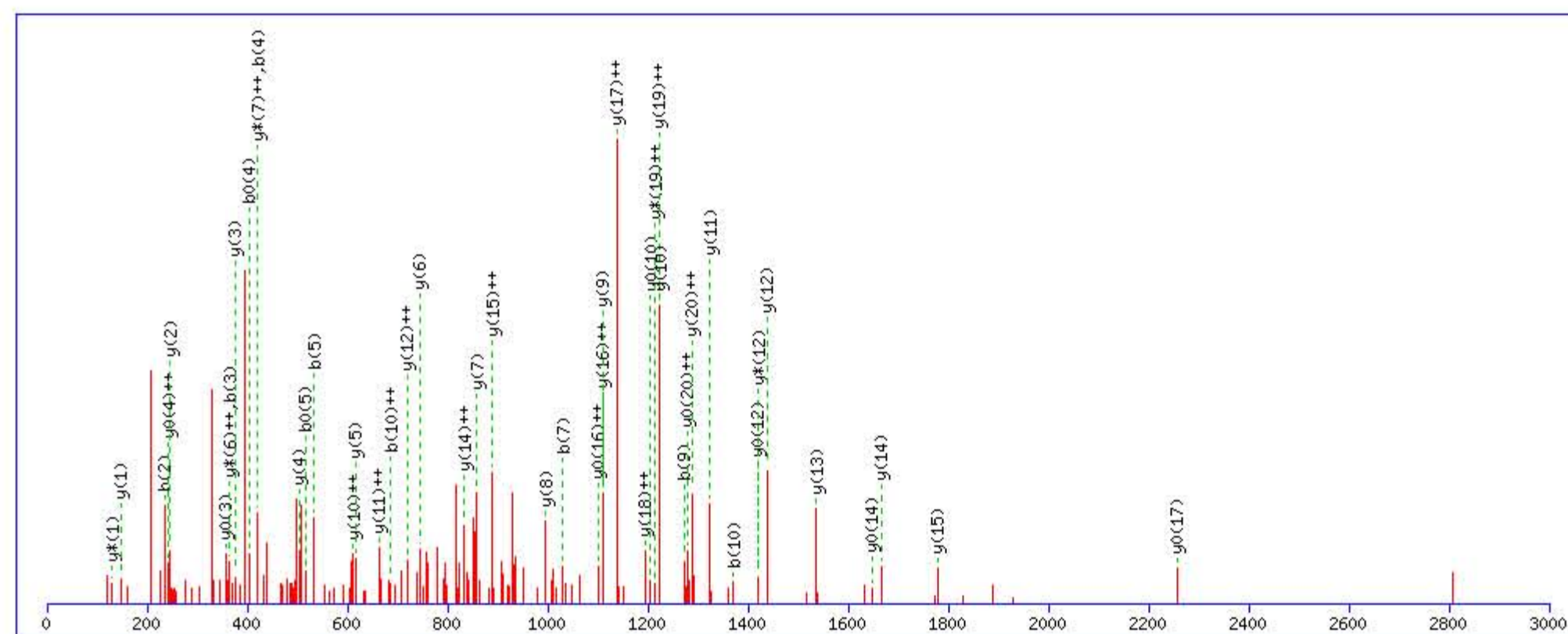
Title: Locus:1.1.1.3610.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 0 to 3000 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2807.452759

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

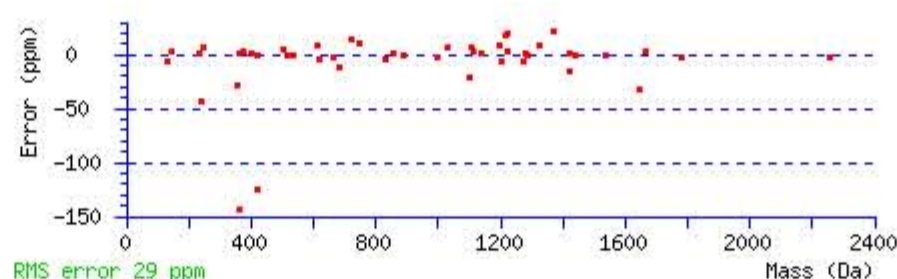
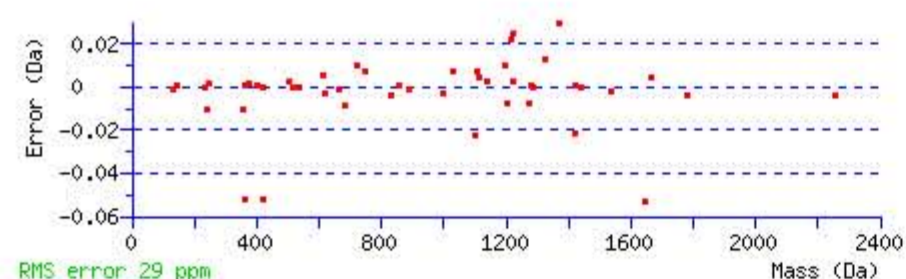
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 77 Expect: 4.6e-007

Matches : 48/236 fragment ions using 94 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							22
2	<b>235.107718</b>	118.057497			217.097153	109.052214	F	2721.428016	1361.217646	2704.401467	1352.704371	2703.417451	1352.212363	21
3	<b>364.150311</b>	182.578793			346.139746	173.573511	E	2574.359602	<b>1287.683439</b>	2557.333053	1279.170164	2556.349037	<b>1278.678156</b>	20
4	<b>421.171775</b>	211.089525			<b>403.161210</b>	202.084243	G	2445.317009	<b>1223.162142</b>	2428.290460	<b>1214.648868</b>	2427.306444	1214.156860	19
5	<b>534.255839</b>	267.631558			<b>516.245274</b>	258.626275	L	2388.295545	<b>1194.651410</b>	2371.268996	1186.138136	2370.284980	1185.646128	18
6	591.277303	296.142290			573.266738	287.137007	G	2275.211481	<b>1138.109378</b>	2258.184932	1129.596104	<b>2257.200916</b>	1129.104096	17
7	<b>1030.502629</b>	515.754953	1013.476080	507.241678	1012.492064	506.749670	Q	2218.190017	<b>1109.598646</b>	2201.163468	1101.085372	2200.179452	<b>1100.593364</b>	16
8	1143.586693	572.296985	1126.560144	563.783710	1125.576128	563.291702	L	<b>1778.964691</b>	<b>889.985984</b>	1761.938142	881.472709	1760.954126	880.980701	15
9	<b>1272.629286</b>	636.818281	1255.602737	628.305007	1254.618721	627.812999	E	<b>1665.880627</b>	<b>833.443952</b>	1648.854078	824.930677	<b>1647.870062</b>	824.438669	14
10	<b>1371.697700</b>	<b>686.352488</b>	1354.671151	677.839214	1353.687135	677.347206	V	<b>1536.838034</b>	768.922655	1519.811485	760.409381	1518.827469	759.917373	13
11	1484.781764	742.894520	1467.755215	734.381246	1466.771199	733.889238	L	<b>1437.769620</b>	<b>719.388448</b>	<b>1420.743071</b>	710.875174	<b>1419.759055</b>	710.383166	12
12	1585.829443	793.418360	1568.802894	784.905085	1567.818878	784.413077	T	<b>1324.685556</b>	<b>662.846416</b>	1307.659007	654.333142	1306.674991	653.841134	11
13	1698.913507	849.960392	1681.886958	841.447117	1680.902942	840.955109	L	<b>1223.637877</b>	<b>612.322577</b>	1206.611328	603.809302	<b>1205.627312</b>	603.317294	10
14	1813.940450	907.473863	1796.913901	898.960589	1795.929885	898.468581	D	<b>1110.553813</b>	555.780545	1093.527264	547.267270	1092.543248	546.775262	9
15	1950.999362	976.003319	1933.972813	967.490045	1932.988797	966.998037	H	<b>995.526870</b>	498.267073	978.500321	489.753799	977.516305	489.261791	8
16	2065.042289	1033.024782	2048.015740	1024.511508	2047.031724	1024.019500	N	<b>858.467958</b>	429.737617	841.441409	<b>421.224343</b>	840.457393	420.732335	7
17	2193.100867	1097.054072	2176.074318	1088.540797	2175.090302	1088.048789	Q	<b>744.425031</b>	372.716154	727.398482	<b>364.202879</b>	726.414466	363.710871	6
18	2306.184931	1153.596104	2289.158382	1145.082829	2288.174366	1144.590821	L	<b>616.366453</b>	308.686865	599.339904	300.173590	598.355888	299.681582	5
19	2434.243509	1217.625393	2417.216960	1209.112118	2416.232944	1208.620110	Q	<b>503.282389</b>	252.144833	486.255840	243.631558	485.271824	<b>243.139550</b>	4
20	2563.286102	1282.146689	2546.259553	1273.633415	2545.275537	1273.141407	E	<b>375.223811</b>	188.115543	358.197262	179.602269	<b>357.213246</b>	179.110261	3
21	2662.354516	1331.680896	2645.327967	1323.167622	2644.343951	1322.675614	V	<b>246.181218</b>	123.594247	229.154669	115.080972			2
22							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **SFEGLGQLEVLTLTDHNLQLEVK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
77.3	2807.452759	-0.000427	<a href="#">SFEGLGQLEVLTLTDHNLQLEVK</a>
6.9	2807.452759	-0.000427	<a href="#">SFEGLGQLEVLTLTDHNLQLEVK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **ELAAQTIK**

Found in **ITIH1\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H1 OS=Homo sapiens GN=ITIH1 PE=1 SV=3

Match to Query 17365: 1183.662388 from(592.838470,2+) rtinseconds(1752) index(44431)

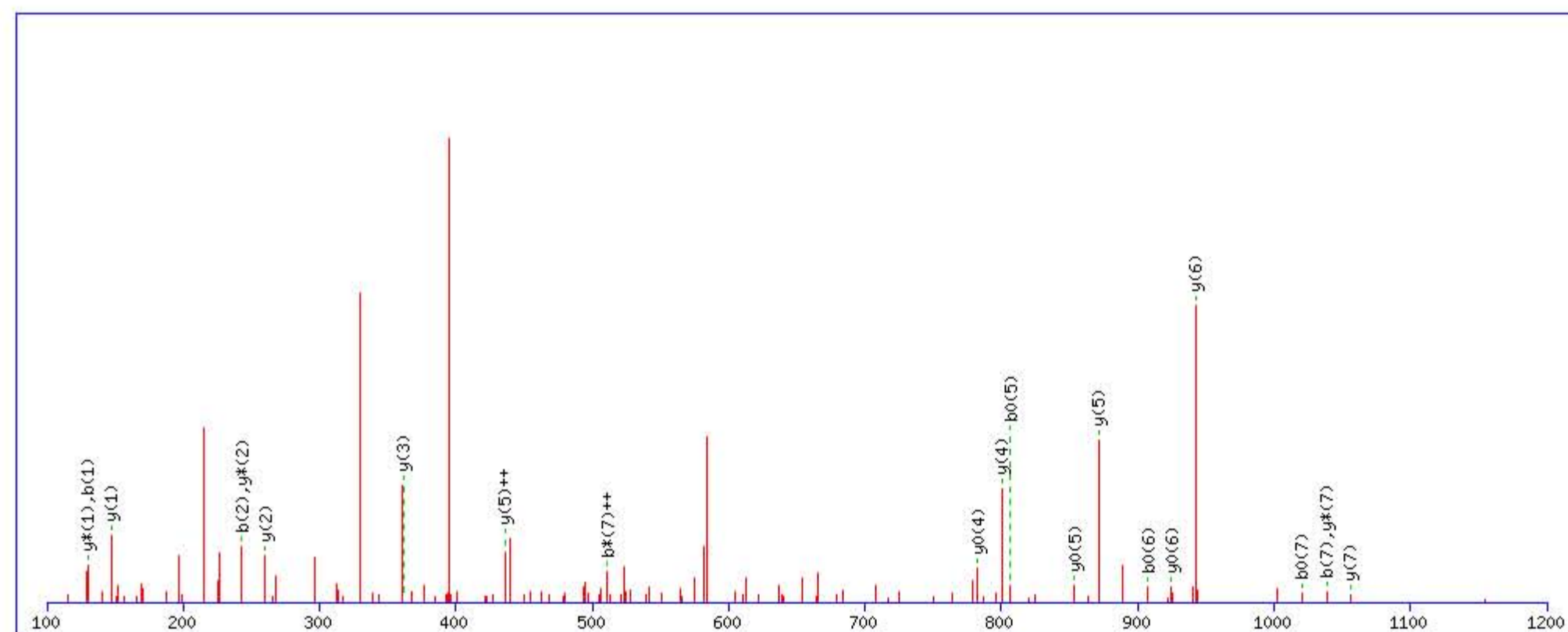
Title: Locus:1.1.1.3323.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1183.663452

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

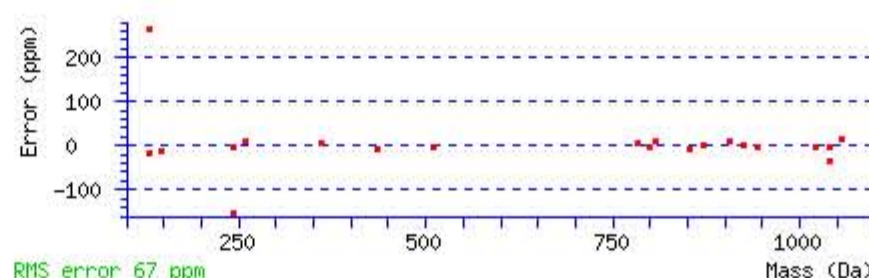
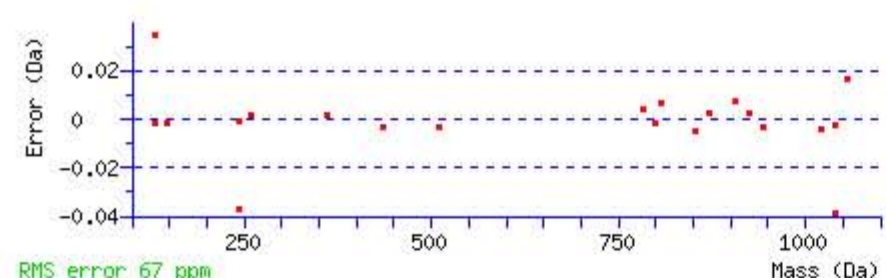
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 36 Expect: 0.0056

Matches : 21/72 fragment ions using 40 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							8
2	243.133933	122.070605			225.123368	113.065322	L	1055.628165	528.317720	1038.601616	519.804446	1037.617600	519.312438	7
3	314.171047	157.589161			296.160482	148.583879	A	942.544101	471.775689	925.517552	463.262414	924.533536	462.770406	6
4	385.208161	193.107718			367.197596	184.102436	A	871.506987	436.257132	854.480438	427.743857	853.496422	427.251849	5
5	824.433487	412.720382	807.406938	404.207107	806.422922	403.715099	Q	800.469873	400.738575	783.443324	392.225300	782.459308	391.733292	4
6	925.481166	463.244221	908.454617	454.730947	907.470601	454.238939	T	361.244547	181.125911	344.217998	172.612637	343.233982	172.120629	3
7	1038.565230	519.786253	1021.538681	511.272978	1020.554665	510.780970	I	260.196868	130.602072	243.170319	122.088797			2
8							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [ELAAQTIK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
36.0	1183.663452	-0.001064	<a href="#">ELAAQTIK</a>
29.4	1183.663452	-0.001064	<a href="#">ELAAQITK</a>
8.6	1183.663452	-0.001064	<a href="#">LEQAATLK</a>
7.8	1183.660080	0.002308	<a href="#">AIEVAISPWK</a>
7.8	1183.667282	-0.004894	<a href="#">GKQASEPALRK</a>
5.5	1183.667297	-0.004909	<a href="#">EPTGRVEIRK</a>
5.1	1183.656937	0.005451	<a href="#">MRPQILK</a>
5.0	1183.674683	-0.012295	<a href="#">ELRQLSK</a>
4.8	1183.663452	-0.001064	<a href="#">EDLQKLK</a>
4.6	1183.674698	-0.012310	<a href="#">TQVRELK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LDAQASFLPK**

Found in **ITIH1\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H1 OS=Homo sapiens GN=ITIH1 PE=1 SV=3

Match to Query 23605: 1399.755108 from(700.884830,2+) rtinseconds(2240) index(47481)

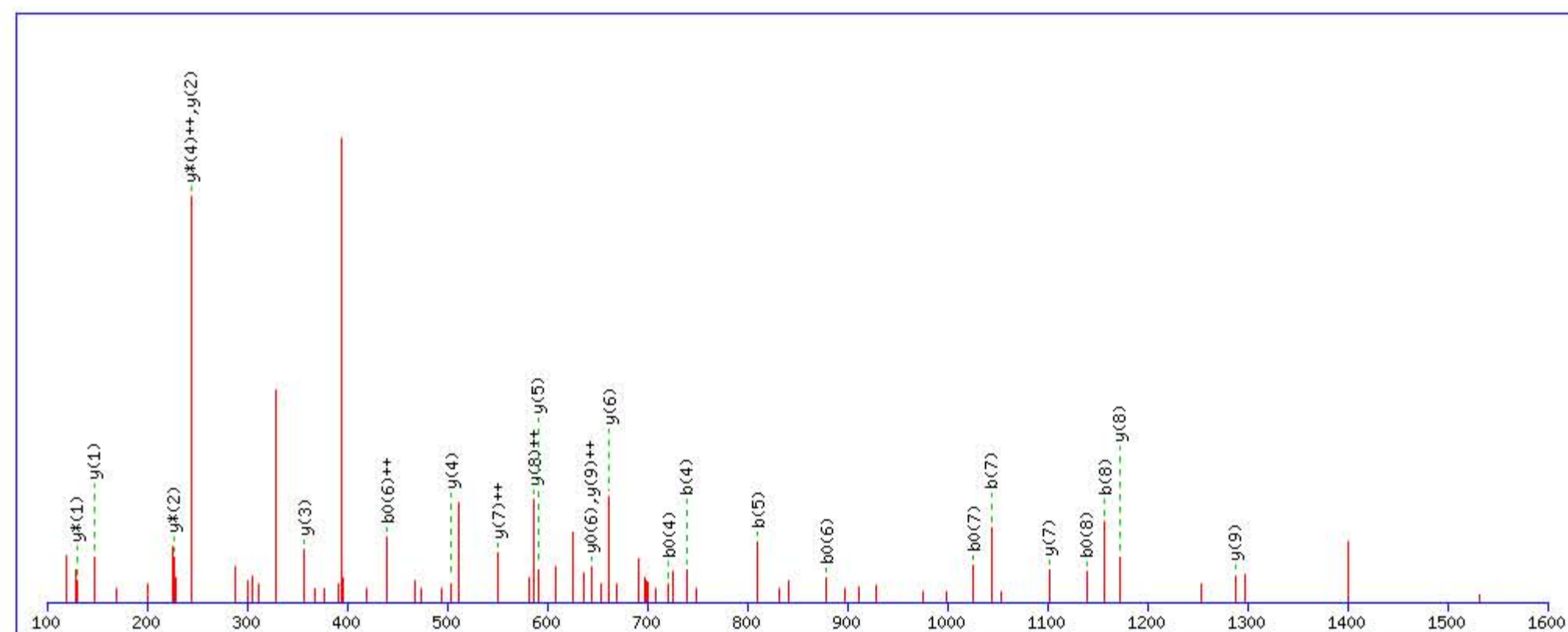
Title: Locus:1.1.1.3492.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1399.753342

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

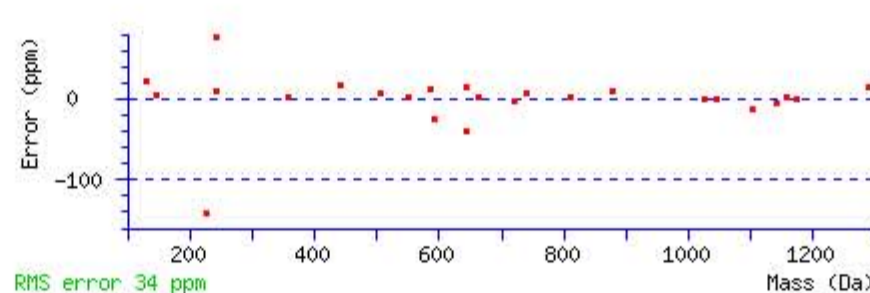
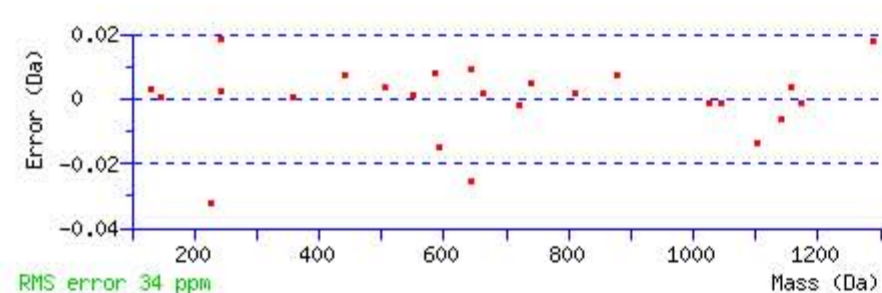
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 55 Expect: 5.1e-005

Matches : 25/92 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							10
2	229.118283	115.062779			211.107718	106.057497	D	1287.676571	644.341924	1270.650022	635.828649	1269.666006	635.336641	9
3	300.155397	150.581336			282.144832	141.576054	A	1172.649628	586.828452	1155.623079	578.315178	1154.639063	577.823169	8
4	739.380723	370.194000	722.354174	361.680725	721.370158	361.188717	Q	1101.612514	551.309895	1084.585965	542.796621	1083.601949	542.304612	7
5	810.417837	405.712557	793.391288	397.199282	792.407272	396.707274	A	662.387188	331.697232	645.360639	323.183957	644.376623	322.691949	6
6	897.449865	449.228570	880.423316	440.715296	879.439300	440.223288	S	591.350074	296.178675	574.323525	287.665400	573.339509	287.173392	5
7	1044.518279	522.762777	1027.491730	514.249503	1026.507714	513.757495	F	504.318046	252.662661	487.291497	244.149386			4
8	1157.602343	579.304809	1140.575794	570.791535	1139.591778	570.299527	L	357.249632	179.128454	340.223083	170.615179			3
9	1254.655107	627.831191	1237.628558	619.317917	1236.644542	618.825909	P	244.165568	122.586422	227.139019	114.073148			2
10							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [LDAQASFLPK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
54.6	1399.753342	0.001766	<a href="#">LDAQASFLPK</a>
8.3	1399.753342	0.001766	<a href="#">LLDFAASQPK</a>
7.3	1399.745972	0.009136	<a href="#">IDAATGIPVTTWR</a>
3.0	1399.746811	0.008297	<a href="#">FKMPKIHMSGPK</a>
2.6	1399.771103	-0.015995	<a href="#">QKEPSVLFVDPK</a>
2.4	1399.755814	-0.000706	<a href="#">KTELGPLKEEEK</a>
1.4	1399.757156	-0.002048	<a href="#">IIGEKYHALNSR</a>
1.2	1399.771973	-0.016865	<a href="#">IWQGMLTIK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QAVDTAVDGVFIR**

Found in **ITIH1\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H1 OS=Homo sapiens GN=ITIH1 PE=1 SV=3

Match to Query 33655: 1700.888868 from(851.451710,2+) rtinseconds(2327) index(47970)

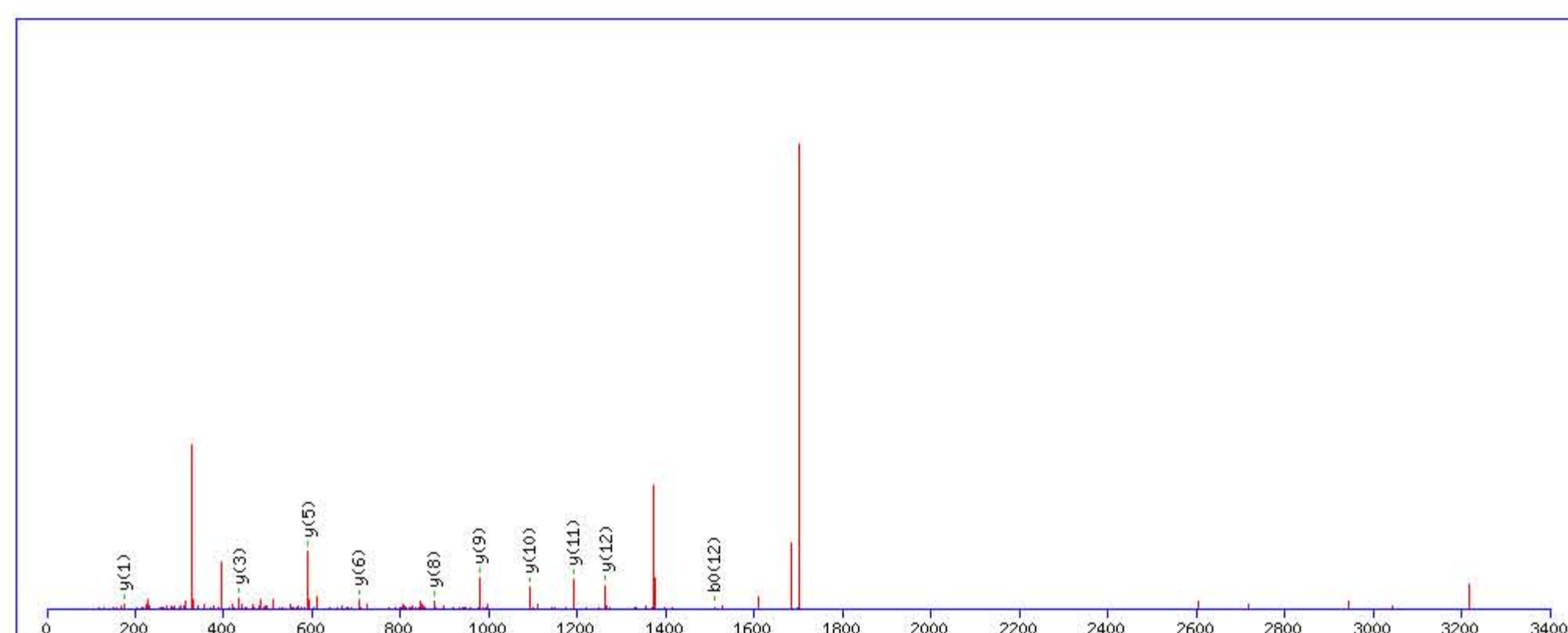
Title: Locus:1.1.1.3522.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1700.891998

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

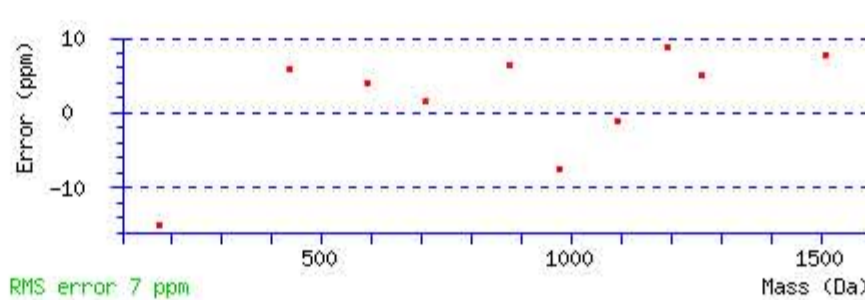
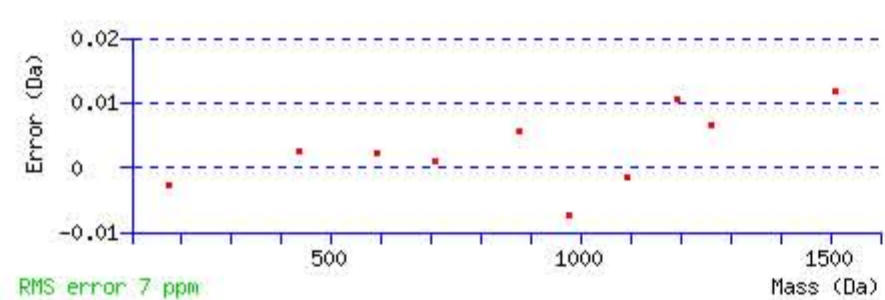
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 66 Expect: 4.6e-006

Matches : 10/128 fragment ions using 16 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							13
2	511.269716	256.138496	494.243167	247.625221			A	<b>1262.673929</b>	631.840602	1245.647380	623.327328	1244.663364	622.835320	12
3	610.338130	305.672703	593.311581	297.159428			V	<b>1191.636815</b>	596.322045	1174.610266	587.808771	1173.626250	587.316763	11
4	725.365073	363.186174	708.338524	354.672900	707.354508	354.180892	D	<b>1092.568401</b>	546.787838	1075.541852	538.274564	1074.557836	537.782556	10
5	826.412752	413.710014	809.386203	405.196739	808.402187	404.704731	T	<b>977.541458</b>	489.274367	960.514909	480.761092	959.530893	480.269084	9
6	897.449866	449.228571	880.423317	440.715296	879.439301	440.223288	A	<b>876.493779</b>	438.750527	859.467230	430.237253	858.483214	429.745245	8
7	996.518280	498.762778	979.491731	490.249503	978.507715	489.757495	V	805.456665	403.231970	788.430116	394.718696	787.446100	394.226688	7
8	1111.545223	556.276249	1094.518674	547.762975	1093.534658	547.270967	D	<b>706.388251</b>	353.697764	689.361702	345.184489	688.377686	344.692481	6
9	1168.566687	584.786981	1151.540138	576.273707	1150.556122	575.781699	G	<b>591.361308</b>	296.184292	574.334759	287.671018			5
10	1267.635101	634.321188	1250.608552	625.807914	1249.624536	625.315906	V	534.339844	267.673560	517.313295	259.160286			4
11	1414.703515	707.855395	1397.676966	699.342121	1396.692950	698.850113	F	<b>435.271430</b>	218.139353	418.244881	209.626078			3
12	1527.787579	764.397427	1510.761030	755.884153	<b>1509.777014</b>	755.392145	I	288.203016	144.605146	271.176467	136.091871			2
13							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **QAVDTAVDGVFIR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
65.6	1700.891998	-0.003130	<a href="#">QAVDTAVDGVFIR</a>
8.1	1700.884109	0.004759	<a href="#">QALITCDDILIK</a>
3.1	1700.881424	0.007444	<a href="#">QAAVMGQKGGSKGR</a>
0.8	1700.881882	0.006986	<a href="#">DNVGP RAPGRAPNQPR</a>
0.7	1700.895813	-0.006945	<a href="#">VNPSVNPSISP AHGVAR</a>
0.7	1700.863449	0.025419	<a href="#">GSKWEVYPAQVQGP R</a>
0.5	1700.883224	0.005644	<a href="#">QLSLPETGELDSATLK</a>
0.4	1700.880539	0.008329	<a href="#">KSLRINSTATPDQDR</a>
0.4	1700.864120	0.024748	<a href="#">RENVNPRHPCLGPR</a>
0.4	1700.905670	-0.016802	<a href="#">SLQEELSLARGTIER</a>



# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **GSLVQASEANLQAAQDFVR**

Found in **ITIH1\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H1 OS=Homo sapiens GN=ITIH1 PE=1 SV=3

Match to Query 45325: 2314.180032 from(772.400620,3+) rtinseconds(2657) index(49707)

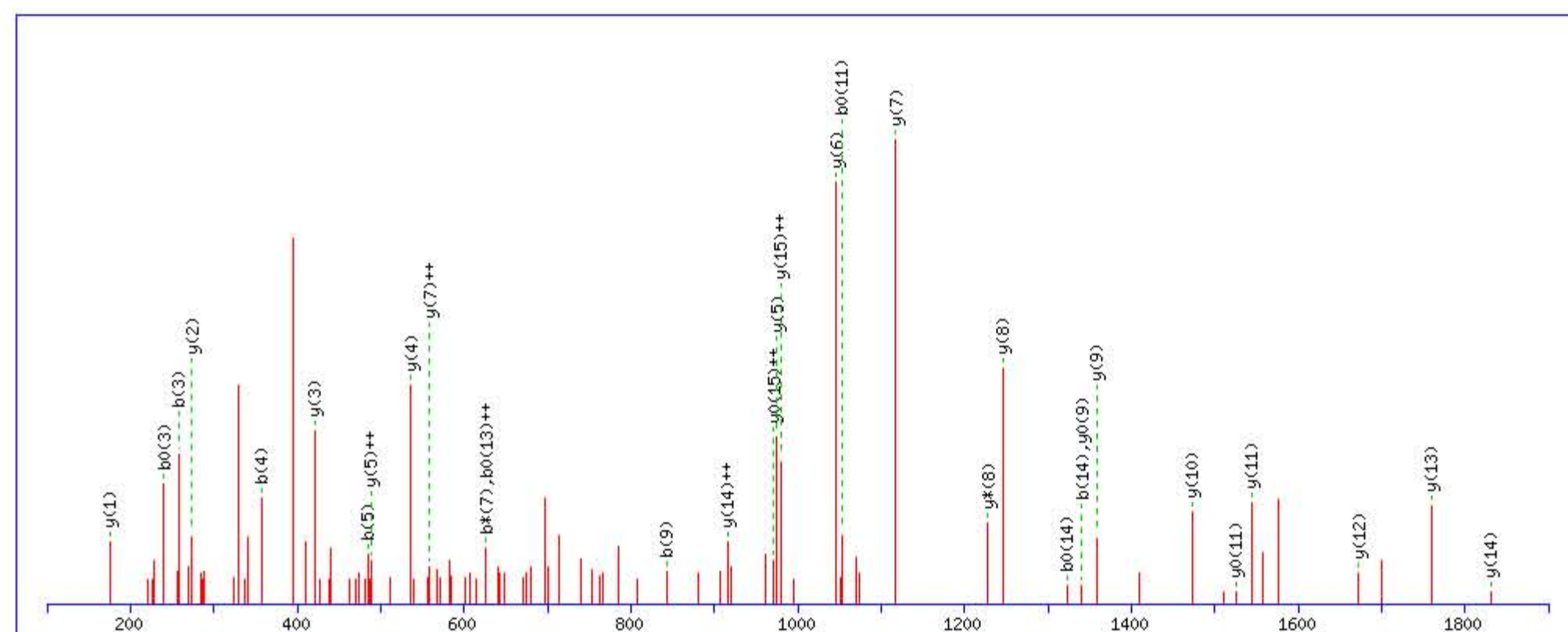
Title: Locus:1.1.1.3637.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2314.173950

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

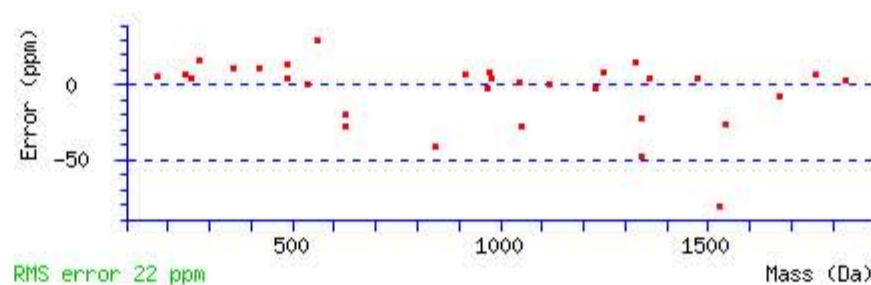
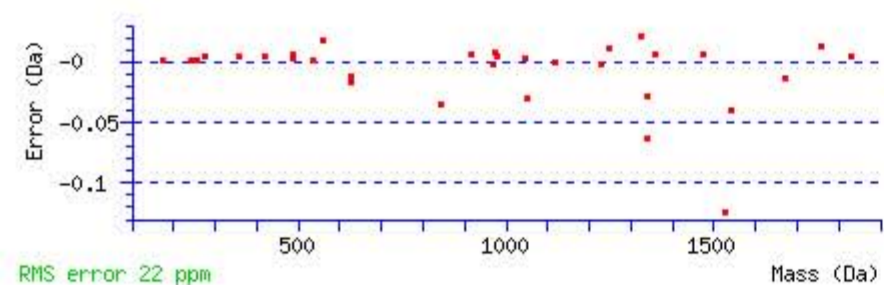
Variable modifications:

Q15 : Biotin:Thermo-21345 (Q)

Ions Score: 92 Expect: 1.9e-008

Matches : 32/200 fragment ions using 53 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					<b>G</b>							19
2	145.060768	73.034022			127.050203	64.028740	<b>S</b>	2258.159779	1129.583527	2241.133230	1121.070253	2240.149214	1120.578245	18
3	<b>258.144832</b>	129.576054			<b>240.134267</b>	120.570772	<b>L</b>	2171.127751	1086.067513	2154.101202	1077.554239	2153.117186	1077.062231	17
4	<b>357.213246</b>	179.110261			339.202681	170.104979	<b>V</b>	2058.043687	1029.525481	2041.017138	1021.012207	2040.033122	1020.520199	16
5	<b>485.271824</b>	243.139550	468.245275	234.626276	467.261259	234.134268	<b>Q</b>	1958.975273	<b>979.991275</b>	1941.948724	971.478000	1940.964708	<b>970.985992</b>	15
6	556.308938	278.658107	539.282389	270.144833	538.298373	269.652825	<b>A</b>	<b>1830.916695</b>	<b>915.961986</b>	1813.890146	907.448711	1812.906130	906.956703	14
7	643.340966	322.174121	<b>626.314417</b>	313.660847	625.330401	313.168839	<b>S</b>	<b>1759.879581</b>	880.443429	1742.853032	871.930154	1741.869016	871.438146	13
8	772.383559	386.695418	755.357010	378.182143	754.372994	377.690135	<b>E</b>	<b>1672.847553</b>	836.927415	1655.821004	828.414140	1654.836988	827.922132	12
9	<b>843.420673</b>	422.213975	826.394124	413.700700	825.410108	413.208692	<b>A</b>	<b>1543.804960</b>	772.406118	1526.778411	763.892844	<b>1525.794395</b>	763.400836	11
10	957.463600	479.235438	940.437051	470.722164	939.453035	470.230156	<b>N</b>	<b>1472.767846</b>	736.887561	1455.741297	728.374287	1454.757281	727.882279	10
11	1070.547664	535.777470	1053.521115	527.264196	<b>1052.537099</b>	526.772187	<b>L</b>	<b>1358.724919</b>	679.866098	1341.698370	671.352823	<b>1340.714354</b>	670.860815	9
12	1198.606242	599.806759	1181.579693	591.293485	1180.595677	590.801477	<b>Q</b>	<b>1245.640855</b>	623.324066	<b>1228.614306</b>	614.810791	1227.630290	614.318783	8
13	1269.643356	635.325316	1252.616807	626.812042	1251.632791	626.320034	<b>A</b>	<b>1117.582277</b>	<b>559.294777</b>	1100.555728	550.781502	1099.571712	550.289494	7
14	<b>1340.680470</b>	670.843873	1323.653921	662.330599	<b>1322.669905</b>	661.838591	<b>A</b>	<b>1046.545163</b>	523.776220	1029.518614	515.262945	1028.534598	514.770937	6
15	1779.905796	890.456536	1762.879247	881.943262	1761.895231	881.451254	<b>Q</b>	<b>975.508049</b>	<b>488.257663</b>	958.481500	479.744388	957.497484	479.252380	5
16	1894.932739	947.970008	1877.906190	939.456733	1876.922174	938.964725	<b>D</b>	<b>536.282723</b>	268.645000	519.256174	260.131725	518.272158	259.639717	4
17	2042.001153	1021.504215	2024.974604	1012.990940	2023.990588	1012.498932	<b>F</b>	<b>421.255780</b>	211.131528	404.229231	202.618253			3
18	2141.069567	1071.038421	2124.043018	1062.525147	2123.059002	1062.033139	<b>V</b>	<b>274.187366</b>	137.597321	257.160817	129.084046			2
19							<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GSLVQASEANLQAAQDFVR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
91.7	2314.173950	0.006082	<a href="#">GSLVQASEANLQAAQDFVR</a>
52.9	2314.173950	0.006082	<a href="#">GSLVQASEANLQAAQDFVR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GSLVQASEANLQAAQDFVR**

Found in **ITIH1\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H1 OS=Homo sapiens GN=ITIH1 PE=1 SV=3

Match to Query 45326: 2314.181502 from(772.401110,3+) rtinseconds(2510) index(48884)

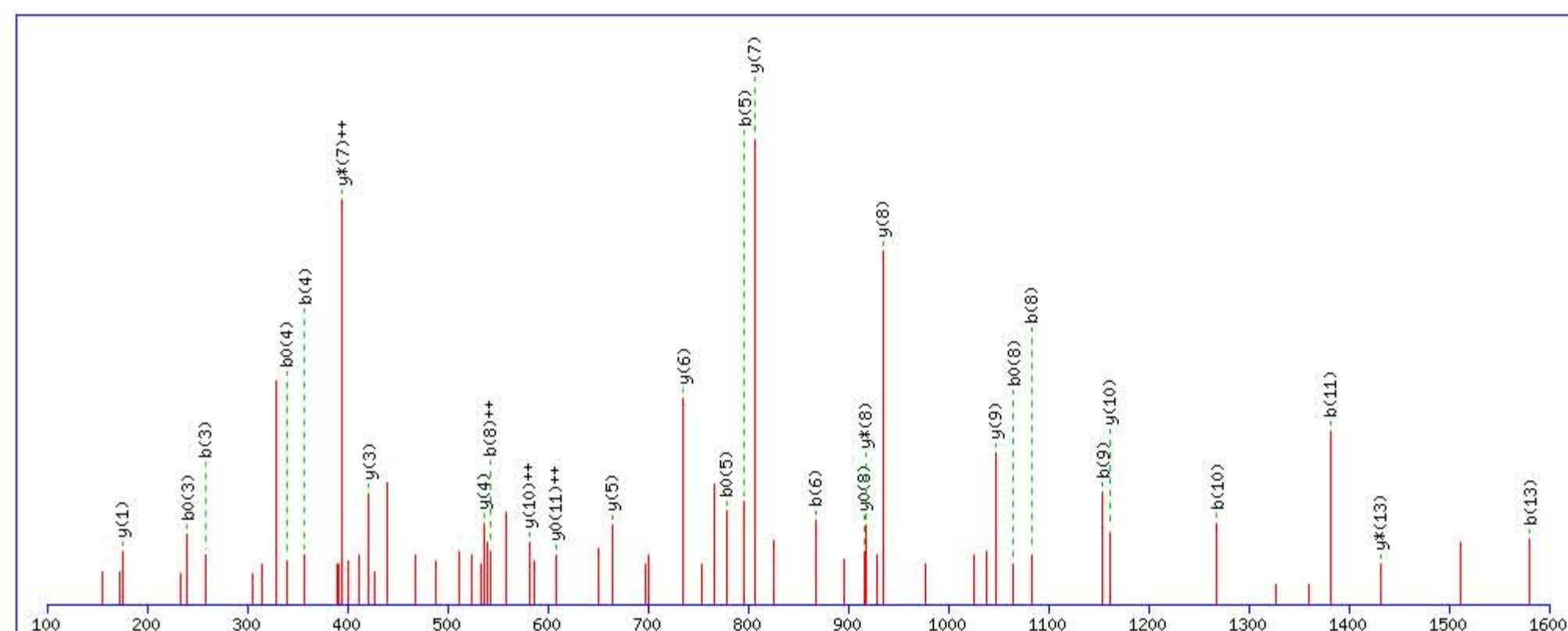
Title: Locus:1.1.1.3586.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2314.173950

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

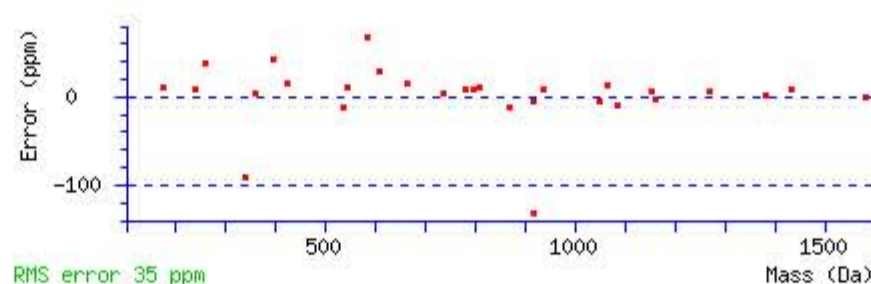
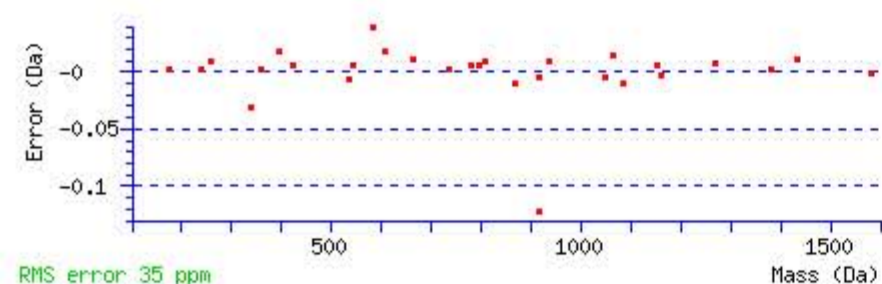
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 66 Expect: 1.1e-006

Matches : 29/200 fragment ions using 47 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							19
2	145.060768	73.034022			127.050203	64.028740	S	2258.159779	1129.583527	2241.133230	1121.070253	2240.149214	1120.578245	18
3	<b>258.144832</b>	129.576054			<b>240.134267</b>	120.570772	L	2171.127751	1086.067513	2154.101202	1077.554239	2153.117186	1077.062231	17
4	<b>357.213246</b>	179.110261			<b>339.202681</b>	170.104979	V	2058.043687	1029.525481	2041.017138	1021.012207	2040.033122	1020.520199	16
5	<b>796.438572</b>	398.722924	779.412023	390.209650	<b>778.428007</b>	389.717642	Q	1958.975273	979.991274	1941.948724	971.478000	1940.964708	970.985992	15
6	<b>867.475686</b>	434.241481	850.449137	425.728207	849.465121	425.236199	A	1519.749947	760.378611	1502.723398	751.865337	1501.739382	751.373329	14
7	954.507714	477.757495	937.481165	469.244220	936.497149	468.752212	S	1448.712833	724.860054	<b>1431.686284</b>	716.346780	1430.702268	715.854772	13
8	<b>1083.550307</b>	<b>542.278792</b>	1066.523758	533.765517	<b>1065.539742</b>	533.273509	E	1361.680805	681.344040	1344.654256	672.830766	1343.670240	672.338758	12
9	<b>1154.587421</b>	577.797349	1137.560872	569.284074	1136.576856	568.792066	A	1232.638212	616.822744	1215.611663	608.309469	1214.627647	<b>607.817461</b>	11
10	<b>1268.630348</b>	634.818812	1251.603799	626.305538	1250.619783	625.813529	N	<b>1161.601098</b>	<b>581.304187</b>	1144.574549	572.790912	1143.590533	572.298904	10
11	<b>1381.714412</b>	691.360844	1364.687863	682.847569	1363.703847	682.355561	L	<b>1047.558171</b>	524.282723	1030.531622	515.769449	1029.547606	515.277441	9
12	1509.772990	755.390133	1492.746441	746.876858	1491.762425	746.384850	Q	<b>934.474107</b>	467.740692	<b>917.447558</b>	459.227417	<b>916.463542</b>	458.735409	8
13	<b>1580.810104</b>	790.908690	1563.783555	782.395415	1562.799539	781.903407	A	<b>806.415529</b>	403.711403	789.388980	<b>395.198128</b>	788.404964	394.706120	7
14	1651.847218	826.427247	1634.820669	817.913972	1633.836653	817.421964	A	<b>735.378415</b>	368.192846	718.351866	359.679571	717.367850	359.187563	6
15	1779.905796	890.456536	1762.879247	881.943261	1761.895231	881.451253	Q	<b>664.341301</b>	332.674289	647.314752	324.161014	646.330736	323.669006	5
16	1894.932739	947.970007	1877.906190	939.456733	1876.922174	938.964725	D	<b>536.282723</b>	268.645000	519.256174	260.131725	518.272158	259.639717	4
17	2042.001153	1021.504215	2024.974604	1012.990940	2023.990588	1012.498932	F	<b>421.255780</b>	211.131528	404.229231	202.618253			3
18	2141.069567	1071.038421	2124.043018	1062.525147	2123.059002	1062.033139	V	274.187366	137.597321	257.160817	129.084046			2
19							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [GSLVQASEANLQAAQDFVR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
65.7	2314.173950	0.007552	<a href="#">GSLVQASEANLQAAQDFVR</a>
13.1	2314.173950	0.007552	<a href="#">GSLVQASEANLQAAQDFVR</a>
2.3	2314.156662	0.024840	<a href="#">GPALTPIRDEEWGGHSPRSPR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **GSLVQASEANLQAAQDFVR**

Found in **ITIH1\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H1 OS=Homo sapiens GN=ITIH1 PE=1 SV=3

Match to Query 45327: 2314.188102 from(772.403310,3+) rtinseconds(2561) index(49081)

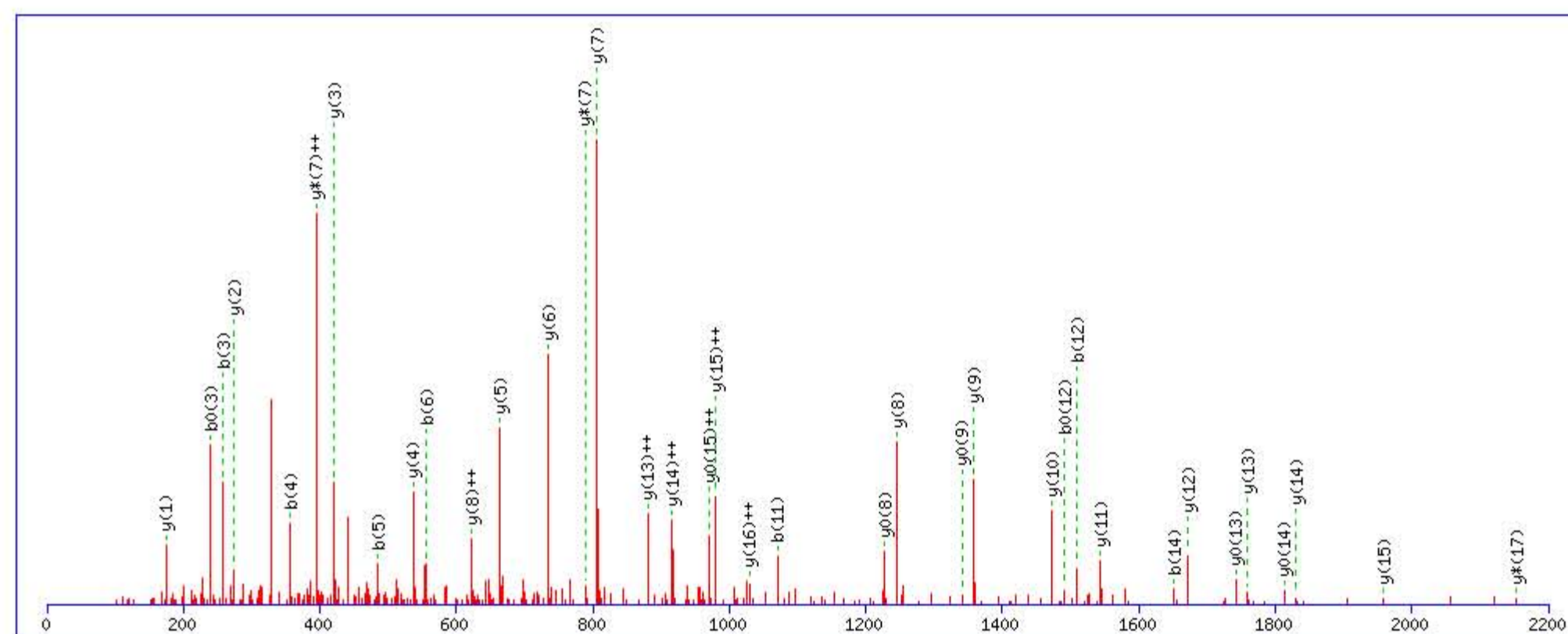
Title: Locus:1.1.1.3604.6 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2314.173950

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

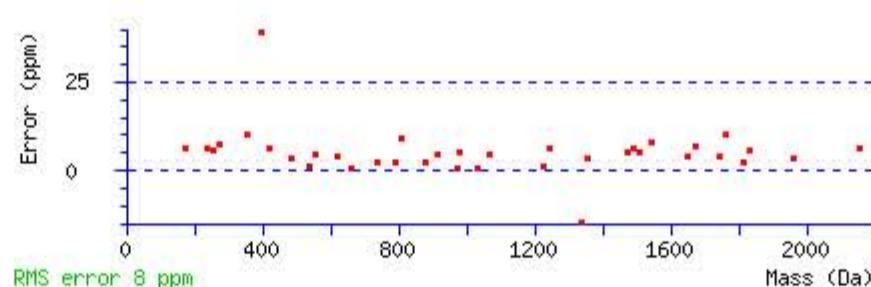
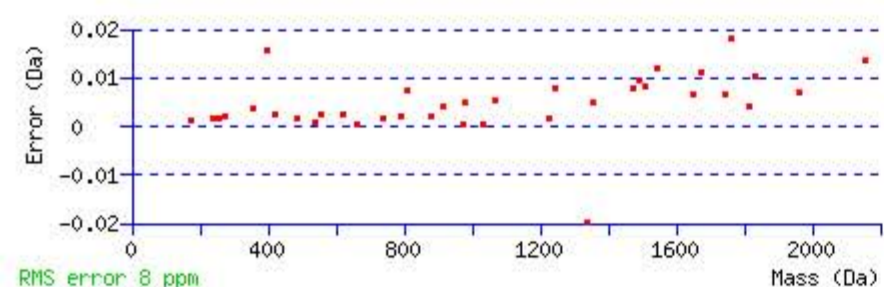
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 108 Expect: 5e-010

Matches : 37/200 fragment ions using 59 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b*	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y*	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					<b>G</b>							19
2	145.060768	73.034022			127.050203	64.028740	<b>S</b>	2258.159779	1129.583527	2241.133230	1121.070253	2240.149214	1120.578245	18
3	<b>258.144832</b>	129.576054			<b>240.134267</b>	120.570772	<b>L</b>	2171.127751	1086.067513	<b>2154.101202</b>	1077.554239	2153.117186	1077.062231	17
4	<b>357.213246</b>	179.110261			339.202681	170.104979	<b>V</b>	2058.043687	<b>1029.525481</b>	2041.017138	1021.012207	2040.033122	1020.520199	16
5	<b>485.271824</b>	243.139550	468.245275	234.626276	467.261259	234.134268	<b>Q</b>	<b>1958.975273</b>	<b>979.991275</b>	1941.948724	971.478000	1940.964708	<b>970.985992</b>	15
6	<b>556.308938</b>	278.658107	539.282389	270.144833	538.298373	269.652825	<b>A</b>	<b>1830.916695</b>	<b>915.961986</b>	1813.890146	907.448711	<b>1812.906130</b>	906.956703	14
7	643.340966	322.174121	626.314417	313.660847	625.330401	313.168839	<b>S</b>	<b>1759.879581</b>	<b>880.443429</b>	1742.853032	871.930154	<b>1741.869016</b>	871.438146	13
8	772.383559	386.695418	755.357010	378.182143	754.372994	377.690135	<b>E</b>	<b>1672.847553</b>	836.927415	1655.821004	828.414140	1654.836988	827.922132	12
9	843.420673	422.213975	826.394124	413.700700	825.410108	413.208692	<b>A</b>	<b>1543.804960</b>	772.406118	1526.778411	763.892844	1525.794395	763.400836	11
10	957.463600	479.235438	940.437051	470.722164	939.453035	470.230156	<b>N</b>	<b>1472.767846</b>	736.887561	1455.741297	728.374287	1454.757281	727.882279	10
11	<b>1070.547664</b>	535.777470	1053.521115	527.264196	1052.537099	526.772187	<b>L</b>	<b>1358.724919</b>	679.866098	1341.698370	671.352823	<b>1340.714354</b>	670.860815	9
12	<b>1509.772990</b>	755.390133	1492.746441	746.876859	<b>1491.762425</b>	746.384851	<b>Q</b>	<b>1245.640855</b>	<b>623.324066</b>	1228.614306	614.810791	<b>1227.630290</b>	614.318783	8
13	1580.810104	790.908690	1563.783555	782.395416	1562.799539	781.903408	<b>A</b>	<b>806.415529</b>	403.711403	<b>789.388980</b>	<b>395.198128</b>	788.404964	394.706120	7
14	<b>1651.847218</b>	826.427247	1634.820669	817.913973	1633.836653	817.421965	<b>A</b>	<b>735.378415</b>	368.192846	718.351866	359.679571	717.367850	359.187563	6
15	1779.905796	890.456536	1762.879247	881.943262	1761.895231	881.451254	<b>Q</b>	<b>664.341301</b>	332.674289	647.314752	324.161014	646.330736	323.669006	5
16	1894.932739	947.970008	1877.906190	939.456733	1876.922174	938.964725	<b>D</b>	<b>536.282723</b>	268.645000	519.256174	260.131725	518.272158	259.639717	4
17	2042.001153	1021.504215	2024.974604	1012.990940	2023.990588	1012.498932	<b>F</b>	<b>421.255780</b>	211.131528	404.229231	202.618253			3
18	2141.069567	1071.038421	2124.043018	1062.525147	2123.059002	1062.033139	<b>V</b>	<b>274.187366</b>	137.597321	257.160817	129.084046			2
19							<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GSLVQASEANLQAAQDFVR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
107.5	2314.173950	0.014152	<a href="#">GSLVQASEANLQAAQDFVR</a>
60.7	2314.173950	0.014152	<a href="#">GSLVQASEANLQAAQDFVR</a>
27.6	2314.173950	0.014152	<a href="#">GSLVQASEANLQAAQDFVR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **FAHYVVTSQVVNTANEAR**

Found in **ITIH1\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H1 OS=Homo sapiens GN=ITIH1 PE=1 SV=3

Match to Query 45358: 2316.167982 from(773.063270,3+) rtinseconds(1970) index(45811)

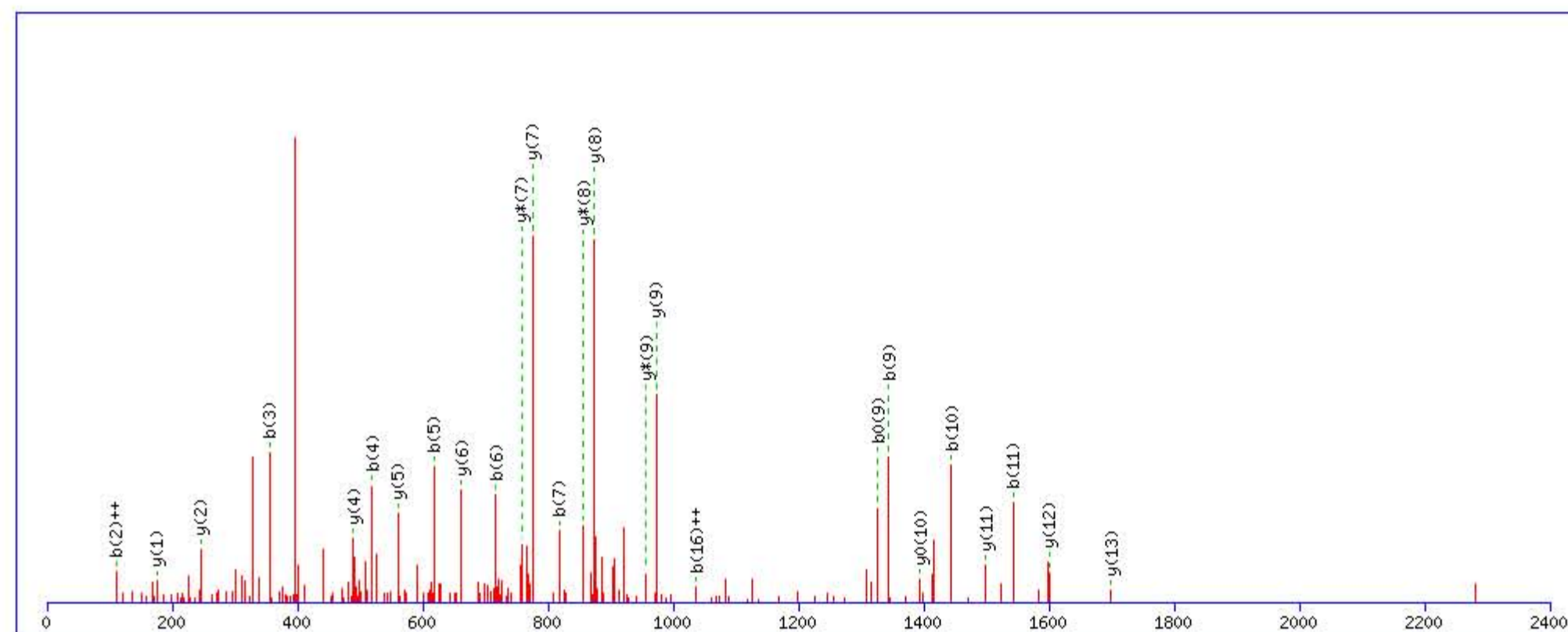
Title: Locus:1.1.1.3398.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2316.168488

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

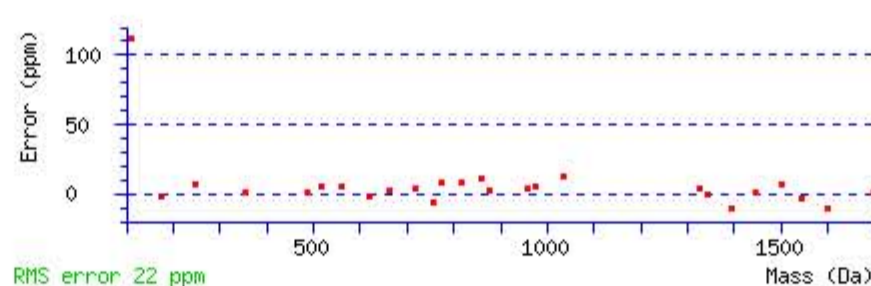
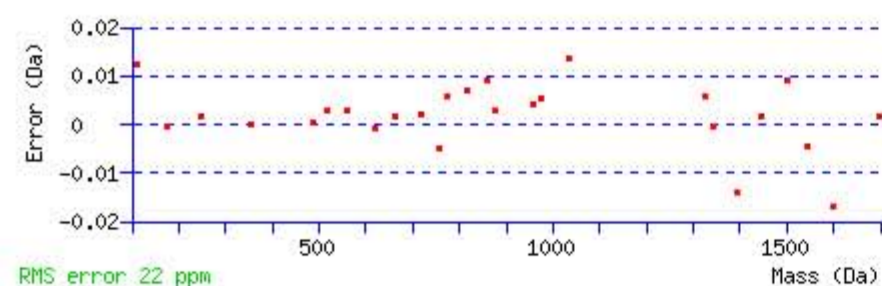
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 64 Expect: 1.1e-005

Matches : 26/172 fragment ions using 47 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							18
2	219.112804	<b>110.060040</b>					A	2170.107350	1085.557313	2153.080801	1077.044038	2152.096785	1076.552030	17
3	<b>356.171716</b>	178.589496					H	2099.070236	1050.038756	2082.043687	1041.525481	2081.059671	1041.033473	16
4	<b>519.235045</b>	260.121161					Y	1962.011324	981.509300	1944.984775	972.996026	1944.000759	972.504018	15
5	<b>618.303459</b>	309.655368					V	1798.947995	899.977636	1781.921446	891.464361	1780.937430	890.972353	14
6	<b>717.371873</b>	359.189575					V	<b>1699.879581</b>	850.443429	1682.853032	841.930154	1681.869016	841.438146	13
7	<b>818.419552</b>	409.713414			800.408987	400.708132	T	<b>1600.811167</b>	800.909222	1583.784618	792.395947	1582.800602	791.903939	12
8	905.451580	453.229428			887.441015	444.224146	S	<b>1499.763488</b>	750.385382	1482.736939	741.872108	1481.752923	741.380100	11
9	<b>1344.676906</b>	672.842091	1327.650357	664.328817	<b>1326.666341</b>	663.836808	Q	1412.731460	706.869368	1395.704911	698.356094	<b>1394.720895</b>	697.864086	10
10	<b>1443.745320</b>	722.376298	1426.718771	713.863024	1425.734755	713.371016	V	<b>973.506134</b>	487.256705	<b>956.479585</b>	478.743431	955.495569	478.251423	9
11	<b>1542.813734</b>	771.910505	1525.787185	763.397231	1524.803169	762.905223	V	<b>874.437720</b>	437.722498	<b>857.411171</b>	429.209224	856.427155	428.717216	8
12	1656.856661	828.931969	1639.830112	820.418694	1638.846096	819.926686	N	<b>775.369306</b>	388.188291	<b>758.342757</b>	379.675017	757.358741	379.183009	7
13	1757.904340	879.455808	1740.877791	870.942534	1739.893775	870.450526	T	<b>661.326379</b>	331.166828	644.299830	322.653553	643.315814	322.161545	6
14	1828.941454	914.974365	1811.914905	906.461091	1810.930889	905.969083	A	<b>560.278700</b>	280.642988	543.252151	272.129714	542.268135	271.637706	5
15	1942.984381	971.995829	1925.957832	963.482554	1924.973816	962.990546	N	<b>489.241586</b>	245.124431	472.215037	236.611157	471.231021	236.119149	4
16	2072.026974	<b>1036.517125</b>	2055.000425	1028.003850	2054.016409	1027.511842	E	375.198659	188.102968	358.172110	179.589693	357.188094	179.097685	3
17	2143.064088	1072.035682	2126.037539	1063.522407	2125.053523	1063.030399	A	<b>246.156066</b>	123.581671	229.129517	115.068397			2
18							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **FAHYVVTSQVVNTANEAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
63.7	2316.168488	-0.000506	<a href="#">FAHYVVTSQVVNTANEAR</a>

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

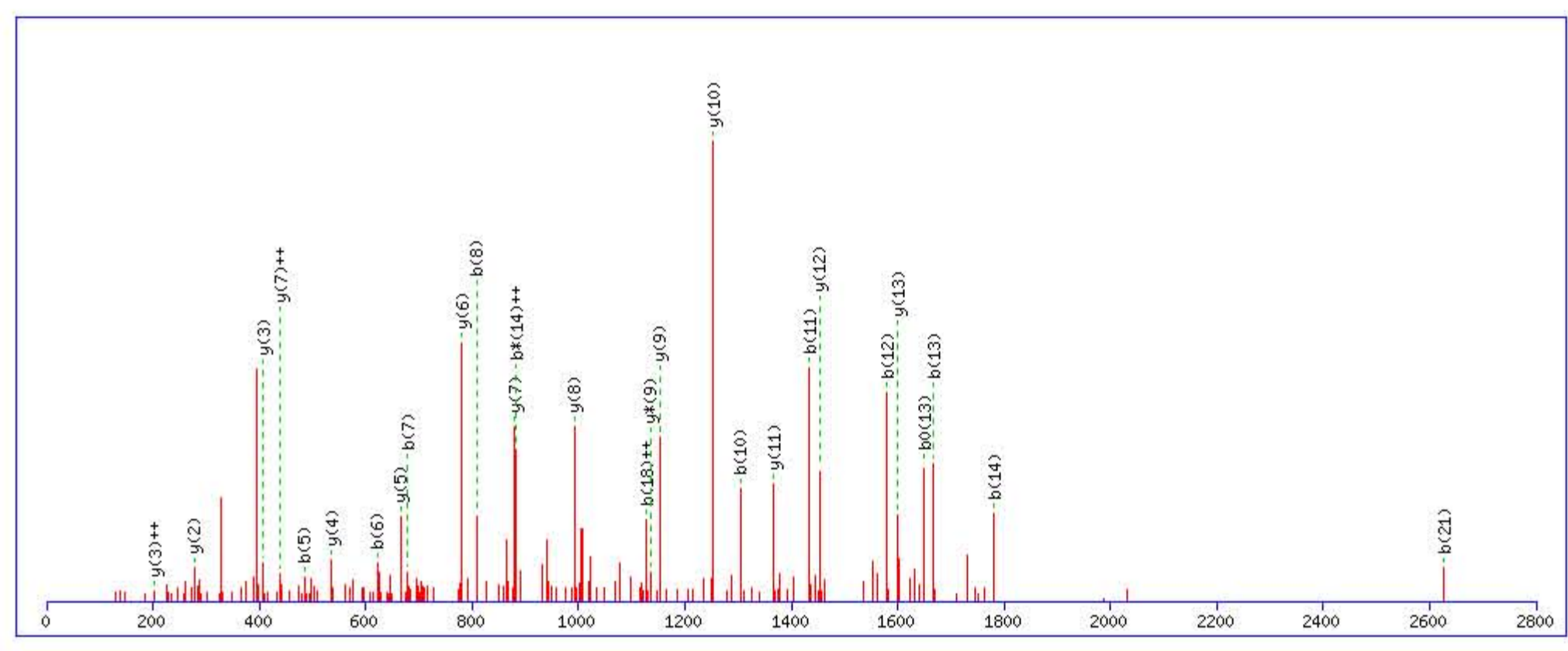
# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **ADVQAHGEGQEFSTICLVDEEEMK**  
 Found in **ITIH1\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H1 OS=Homo sapiens GN=ITIH1 PE=1 SV=3

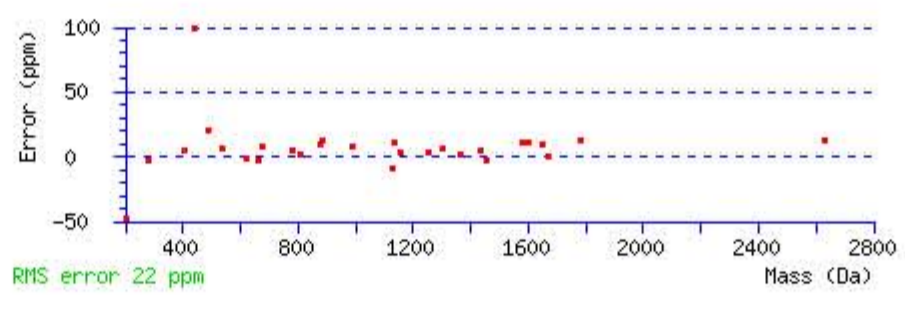
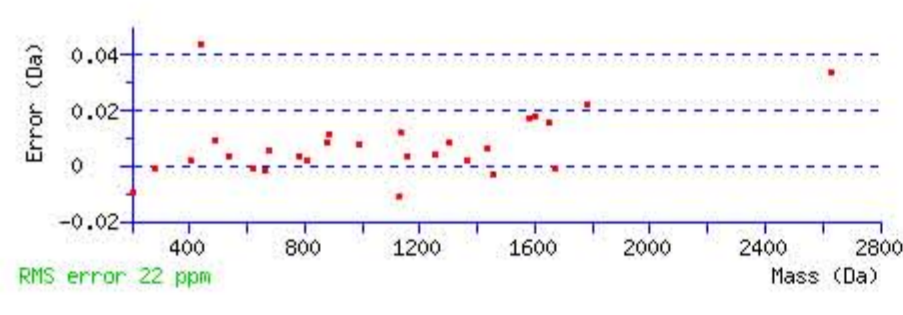
Match to Query 54231: 3032.359152 from(1011.793660,3+) rtinseconds(2519) index(48957)  
 Title: Locus:1.1.1.3589.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3032.356552  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q10 : Biotin:Thermo-21345 (Q)  
 Ions Score: 100 Expect: 7.5e-010  
 Matches : 28/264 fragment ions using 37 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							24
2	187.071333	94.039304			169.060768	85.034022	D	2962.326724	1481.667000	2945.300175	1473.153725	2944.316159	1472.661717	23
3	286.139747	143.573512			268.129182	134.568229	V	2847.299781	1424.153528	2830.273232	1415.640254	2829.289216	1415.148246	22
4	414.198325	207.602801	397.171776	199.089526	396.187760	198.597518	Q	2748.231367	1374.619321	2731.204818	1366.106047	2730.220802	1365.614039	21
5	<b>485.235439</b>	243.121357	468.208890	234.608083	467.224874	234.116075	A	2620.172789	1310.590032	2603.146240	1302.076758	2602.162224	1301.584750	20
6	<b>622.294351</b>	311.650814	605.267802	303.137539	604.283786	302.645531	H	2549.135675	1275.071475	2532.109126	1266.558201	2531.125110	1266.066193	19
7	<b>679.315815</b>	340.161546	662.289266	331.648271	661.305250	331.156263	G	2412.076763	1206.542019	2395.050214	1198.028745	2394.066198	1197.536737	18
8	<b>808.358408</b>	404.682842	791.331859	396.169568	790.347843	395.677560	E	2355.055299	1178.031287	2338.028750	1169.518013	2337.044734	1169.026005	17
9	865.379872	433.193574	848.353323	424.680300	847.369307	424.188292	G	2226.012706	1113.509991	2208.986157	1104.996716	2208.002141	1104.504708	16
10	<b>1304.605198</b>	652.806237	1287.578649	644.292963	1286.594633	643.800954	Q	2168.991242	1084.999259	2151.964693	1076.485984	2150.980677	1075.993976	15
11	<b>1433.647791</b>	717.327534	1416.621242	708.814259	1415.637226	708.322251	E	1729.765916	865.386596	1712.739367	856.873322	1711.755351	856.381314	14
12	<b>1580.716205</b>	790.861741	1563.689656	782.348466	1562.705640	781.856458	F	<b>1600.723323</b>	800.865300	1583.696774	792.352025	1582.712758	791.860017	13
13	<b>1667.748233</b>	834.377755	1650.721684	825.864480	<b>1649.737668</b>	825.372472	S	<b>1453.654909</b>	727.331093	1436.628360	718.817818	1435.644344	718.325810	12
14	<b>1780.832297</b>	890.919787	1763.805748	<b>882.406512</b>	1762.821732	881.914504	I	<b>1366.622881</b>	683.815079	1349.596332	675.301804	1348.612316	674.809796	11
15	1881.879976	941.443626	1864.853427	932.930352	1863.869411	932.438344	T	<b>1253.538817</b>	627.273047	1236.512268	618.759772	1235.528252	618.267764	10
16	2041.910625	1021.458951	2024.884076	1012.945676	2023.900060	1012.453668	C	<b>1152.491138</b>	576.749207	<b>1135.464589</b>	568.235933	1134.480573	567.743925	9
17	2154.994689	1078.000983	2137.968140	1069.487708	2136.984124	1068.995700	L	<b>992.460489</b>	496.733883	975.433940	488.220608	974.449924	487.728600	8
18	2254.063103	<b>1127.535189</b>	2237.036554	1119.021915	2236.052538	1118.529907	V	<b>879.376425</b>	<b>440.191851</b>	862.349876	431.678576	861.365860	431.186568	7
19	2369.090046	1185.048661	2352.063497	1176.535386	2351.079481	1176.043378	D	<b>780.308011</b>	390.657644	763.281462	382.144369	762.297446	381.652361	6
20	2498.132639	1249.569957	2481.106090	1241.056683	2480.122074	1240.564675	E	<b>665.281068</b>	333.144172	648.254519	324.630898	647.270503	324.138890	5
21	<b>2627.175232</b>	1314.091254	2610.148683	1305.577979	2609.164667	1305.085971	E	<b>536.238475</b>	268.622876	519.211926	260.109601	518.227910	259.617593	4
22	2756.217825	1378.612551	2739.191276	1370.099276	2738.207260	1369.607268	E	<b>407.195882</b>	<b>204.101579</b>	390.169333	195.588305	389.185317	195.096297	3
23	2887.258310	1444.132793	2870.231761	1435.619518	2869.247745	1435.127511	M	<b>278.153289</b>	139.580282	261.126740	131.067008			2
24							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **ADVQAHGEGQEFSTICLVDEEEMK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
99.8	3032.356552	0.002600	<a href="#">ADVQAHGEGQEFSTICLVDEEEMK</a>
73.3	3032.356552	0.002600	<a href="#">ADVQAHGEGQEFSTICLVDEEEMK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GMADQDGLKPTIDKPSDPSPPLEMLGPR**

Found in **ITIH1\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H1 OS=Homo sapiens GN=ITIH1 PE=1 SV=3

Match to Query 58186: 3304.619896 from(827.162250,4+) rtinseconds(2240) index(47487)

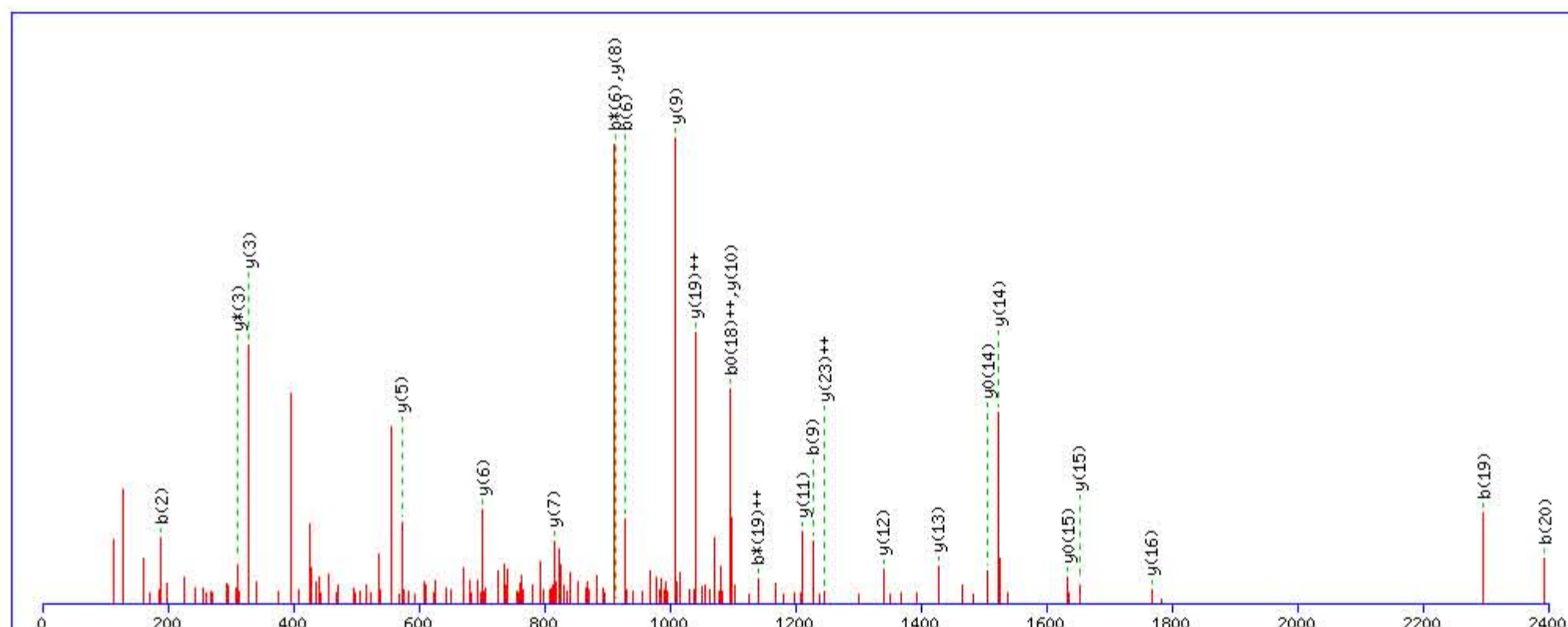
Title: Locus:1.1.1.3492.21 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3304.614151

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

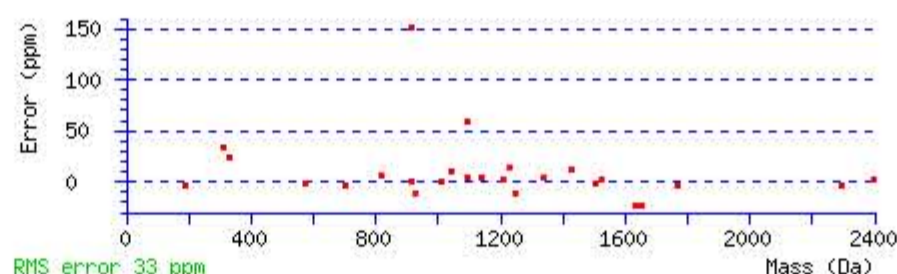
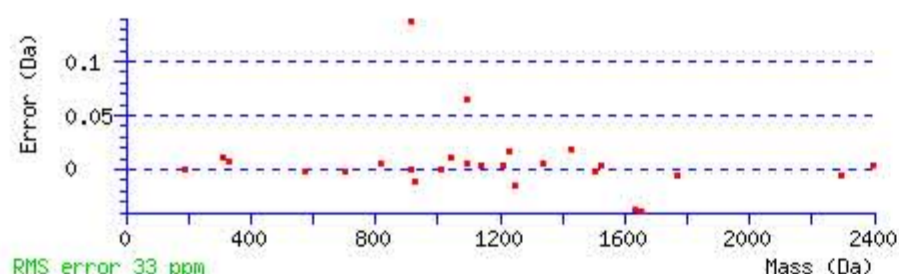
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 85 Expect: 8.5e-008

Matches : 26/300 fragment ions using 36 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							28
2	<b>189.069225</b>	95.038250					M	3248.599985	1624.803630	3231.573436	1616.290356	3230.589420	1615.798348	27
3	260.106339	130.556807					A	3117.559500	1559.283388	3100.532951	1550.770113	3099.548935	1550.278105	26
4	375.133282	188.070279			357.122717	179.064997	D	3046.522386	1523.764831	3029.495837	1515.251556	3028.511821	1514.759548	25
5	814.358608	407.682942	797.332059	399.169668	796.348043	398.677660	Q	2931.495443	1466.251359	2914.468894	1457.738085	2913.484878	1457.246077	24
6	<b>929.385551</b>	465.196414	<b>912.359002</b>	456.683139	911.374986	456.191131	D	2492.270117	<b>1246.638696</b>	2475.243568	1238.125422	2474.259552	1237.633414	23
7	986.407015	493.707146	969.380466	485.193871	968.396450	484.701863	G	2377.243174	1189.125225	2360.216625	1180.611950	2359.232609	1180.119942	22
8	1099.491079	550.249177	1082.464530	541.735903	1081.480514	541.243895	L	2320.221710	1160.614493	2303.195161	1152.101218	2302.211145	1151.609210	21
9	<b>1227.586042</b>	614.296659	1210.559493	605.783385	1209.575477	605.291376	K	2207.137646	1104.072461	2190.111097	1095.559186	2189.127081	1095.067178	20
10	1324.638806	662.823041	1307.612257	654.309767	1306.628241	653.817758	P	2079.042683	<b>1040.024980</b>	2062.016134	1031.511705	2061.032118	1031.019697	19
11	1425.686485	713.346881	1408.659936	704.833606	1407.675920	704.341598	T	1981.989919	991.498598	1964.963370	982.985323	1963.979354	982.493315	18
12	1538.770549	769.888912	1521.744000	761.375638	1520.759984	760.883630	I	1880.942240	940.974758	1863.915691	932.461484	1862.931675	931.969476	17
13	1653.797492	827.402384	1636.770943	818.889110	1635.786927	818.397101	D	<b>1767.858176</b>	884.432726	1750.831627	875.919452	1749.847611	875.427444	16
14	1781.892455	891.449865	1764.865906	882.936591	1763.881890	882.444583	K	<b>1652.831233</b>	826.919255	1635.804684	818.405980	<b>1634.820668</b>	817.913972	15
15	1878.945219	939.976248	1861.918670	931.462973	1860.934654	930.970965	P	<b>1524.736270</b>	762.871773	1507.709721	754.358499	<b>1506.725705</b>	753.866491	14
16	1965.977247	983.492262	1948.950698	974.978987	1947.966682	974.486979	S	<b>1427.683506</b>	714.345391	1410.656957	705.832117	1409.672941	705.340109	13
17	2095.019840	1048.013558	2077.993291	1039.500283	2077.009275	1039.008275	E	<b>1340.651478</b>	670.829377	1323.624929	662.316103	1322.640913	661.824095	12
18	2210.046783	1105.527029	2193.020234	1097.013755	2192.036218	<b>1096.521747</b>	D	<b>1211.608885</b>	606.308081	1194.582336	597.794806	1193.598320	597.302798	11
19	<b>2297.078811</b>	1149.043043	2280.052262	<b>1140.529769</b>	2279.068246	1140.037761	S	<b>1096.581942</b>	548.794609	1079.555393	540.281335	1078.571377	539.789327	10
20	<b>2394.131575</b>	1197.569425	2377.105026	1189.056151	2376.121010	1188.564143	P	<b>1009.549914</b>	505.278595	992.523365	496.765321	991.539349	496.273313	9
21	2491.184339	1246.095807	2474.157790	1237.582533	2473.173774	1237.090525	P	<b>912.497150</b>	456.752213	895.470601	448.238939	894.486585	447.746931	8
22	2604.268403	1302.637839	2587.241854	1294.124565	2586.257838	1293.632557	L	<b>815.444386</b>	408.225831	798.417837	399.712557	797.433821	399.220549	7
23	2733.310996	1367.159136	2716.284447	1358.645861	2715.300431	1358.153854	E	<b>702.360322</b>	351.683799	685.333773	343.170525	684.349757	342.678517	6
24	2864.351481	1432.679379	2847.324932	1424.166104	2846.340916	1423.674096	M	<b>573.317729</b>	287.162503	556.291180	278.649228			5
25	2977.435545	1489.221411	2960.408996	1480.708136	2959.424980	1480.216128	L	442.277244	221.642260	425.250695	213.128986			4
26	3034.457009	1517.732143	3017.430460	1509.218868	3016.446444	1508.726860	G	<b>329.193180</b>	165.100228	<b>312.166631</b>	156.586953			3
27	3131.509773	1566.258525	3114.483224	1557.745250	3113.499208	1557.253242	P	272.171716	136.589496	255.145167	128.076221			2
28							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GMADQDGLKPTIDKPSDPSPPLEMLGPR**  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
84.8	3304.614151	0.005745	<b>GMADQDGLKPTIDKPSDPSPPLEMLGPR</b>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

### MS/MS Fragmentation of TQVADAK

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 12688: 1042.544688 from(522.279620,2+) rtinseconds(1317) index(41902)

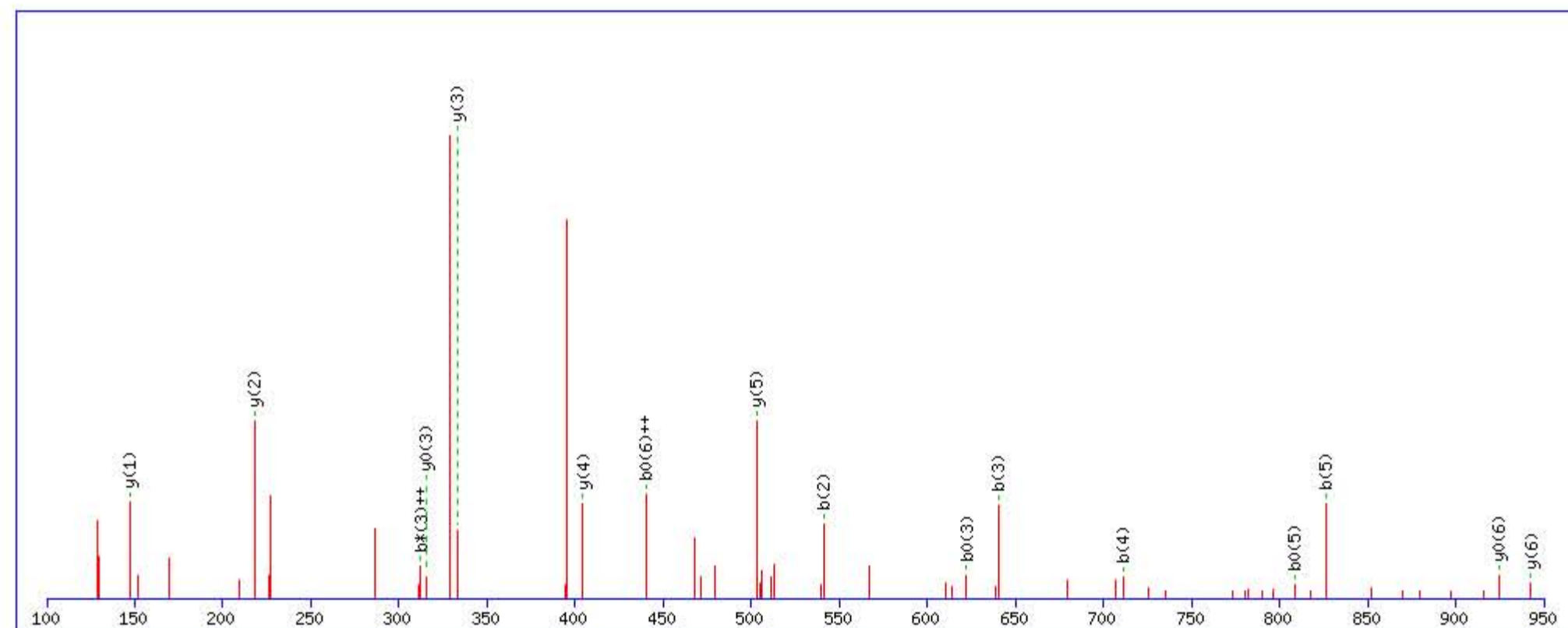
Title: Locus:1.1.1.3171.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1042.548111

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

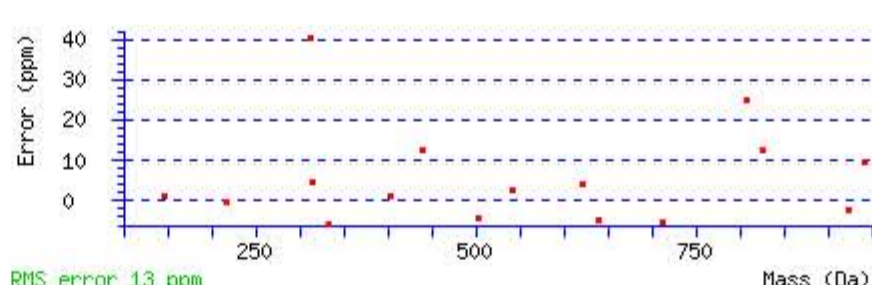
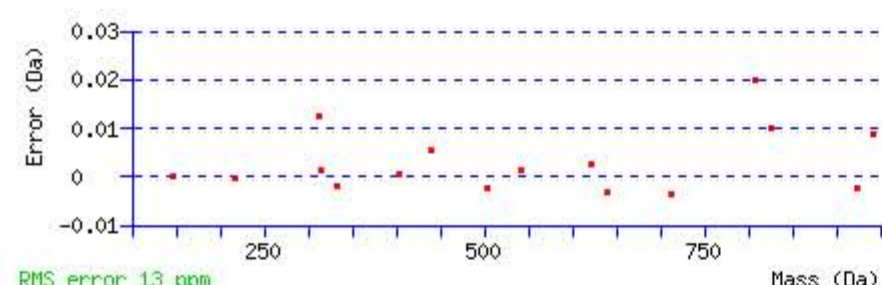
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.016

Matches : 16/66 fragment ions using 33 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							7
2	<b>541.280281</b>	271.143779	524.253732	262.630504	523.269716	262.138496	Q	<b>942.507715</b>	471.757496	925.481166	463.244221	<b>924.497150</b>	462.752213	6
3	<b>640.348695</b>	320.677986	623.322146	<b>312.164711</b>	<b>622.338130</b>	311.672703	V	<b>503.282389</b>	252.144832	486.255840	243.631558	485.271824	243.139550	5
4	<b>711.385809</b>	356.196543	694.359260	347.683268	693.375244	347.191260	A	<b>404.213975</b>	202.610625	387.187426	194.097351	386.203410	193.605343	4
5	<b>826.412752</b>	413.710014	809.386203	405.196739	<b>808.402187</b>	404.704731	D	<b>333.176861</b>	167.092068	316.150312	158.578794	<b>315.166296</b>	158.086786	3
6	897.449866	449.228571	880.423317	440.715296	879.439301	<b>440.223288</b>	A	<b>218.149918</b>	109.578597	201.123369	101.065322			2
7							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



### NCBI BLAST search of TQVADAK

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
32.2	1042.548111	-0.003423	<a href="#">TQVADAK</a>
16.7	1042.540726	0.003962	<a href="#">KPVSEVGDGR</a>
11.1	1042.548096	-0.003408	<a href="#">SLQADAK</a>
9.4	1042.540680	0.004008	<a href="#">EAEKRPADK</a>
6.1	1042.559357	-0.014669	<a href="#">KTVPPCVSR</a>
5.8	1042.529480	0.015208	<a href="#">TSPQPESGIK</a>
4.9	1042.548080	-0.003392	<a href="#">KEQEAK</a>
4.9	1042.548080	-0.003392	<a href="#">KQEEAK</a>
4.2	1042.540710	0.003978	<a href="#">SLKSPPGSDR</a>
3.8	1042.544724	-0.000036	<a href="#">WKGIEPGEK</a>

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **ALYAQAR**

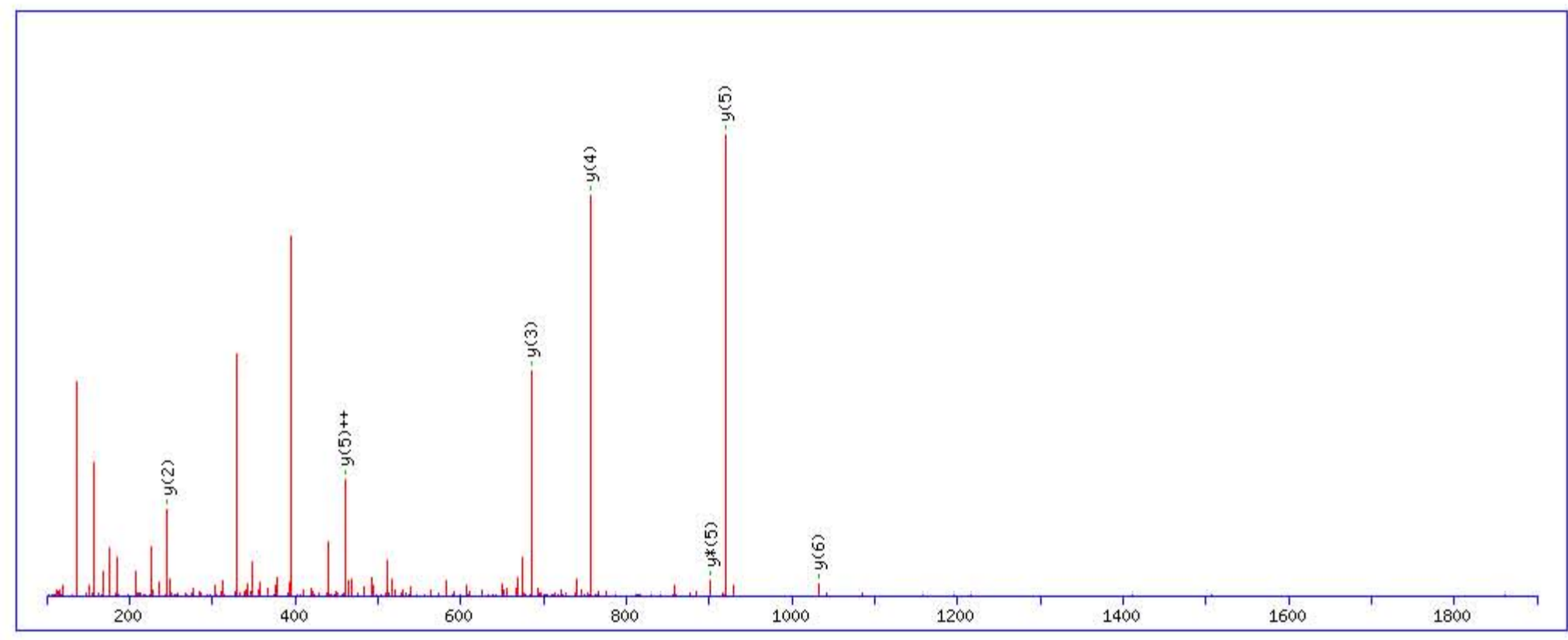
Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 13868: 1102.592188 from(552.303370,2+) rtinseconds(1695) index(44115)  
 Title: Locus:1.1.1.3303.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

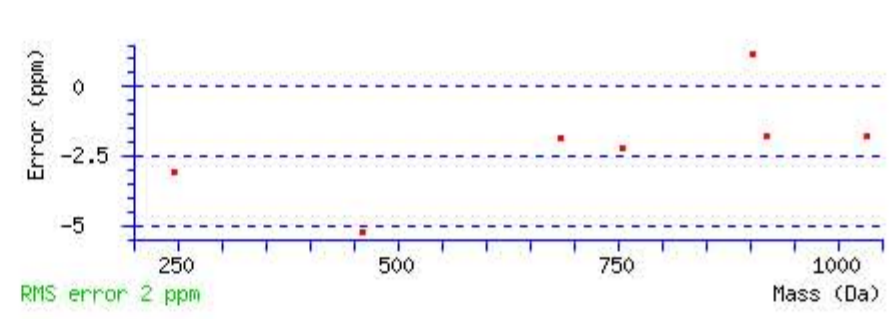
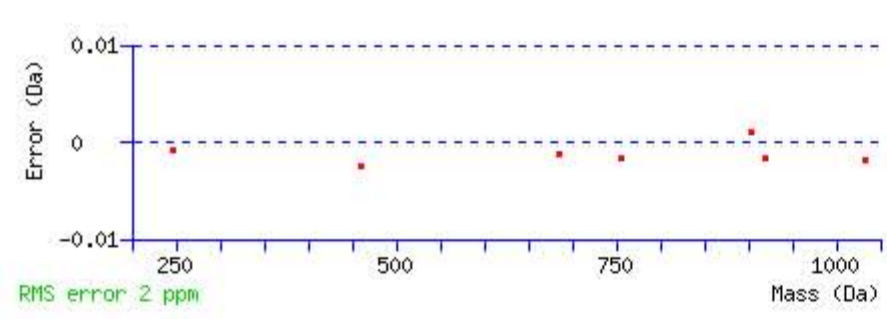
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1102.595703  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q5 : Biotin:Thermo-21345 (Q)  
 Ions Score: 38 Expect: 0.004  
 Matches : 7/40 fragment ions using 10 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	72.044390	36.525833			A					7
2	185.128454	93.067865			L	<b>1032.565899</b>	516.786588	1015.539350	508.273313	6
3	348.191783	174.599529			Y	<b>919.481835</b>	<b>460.244556</b>	<b>902.455286</b>	451.731281	5
4	419.228897	210.118087			A	<b>756.418506</b>	378.712891	739.391957	370.199617	4
5	858.454223	429.730750	841.427674	421.217475	Q	<b>685.381392</b>	343.194334	668.354843	334.681060	3
6	929.491337	465.249307	912.464788	456.736032	A	<b>246.156066</b>	123.581671	229.129517	115.068397	2
7					R	175.118952	88.063114	158.092403	79.549840	1



NCBI BLAST search of **ALYAQAR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
37.8	1102.595703	-0.003515	<a href="#">ALYAQAR</a>
11.8	1102.580460	0.011728	<a href="#">AMVENVTLAR</a>
10.9	1102.602234	-0.010046	<a href="#">AIELGYNPVK</a>
6.0	1102.591660	0.000528	<a href="#">AMKRLEEAR</a>
5.0	1102.591690	0.000498	<a href="#">NMEVSLVRR</a>
4.8	1102.588333	0.003855	<a href="#">SPYGLTPRGR</a>
2.3	1102.580475	0.011713	<a href="#">SPQMVSAIVR</a>
2.2	1102.580475	0.011713	<a href="#">ALSLVIGDCR</a>
2.2	1102.602249	-0.010061	<a href="#">AIVLFNPDSK</a>
1.8	1102.584305	0.007883	<a href="#">QSSQRGLTAR</a>



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VQSTITSR**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 17787: 1201.644968 from(601.829760,2+) rtinseconds(1526) index(43051)

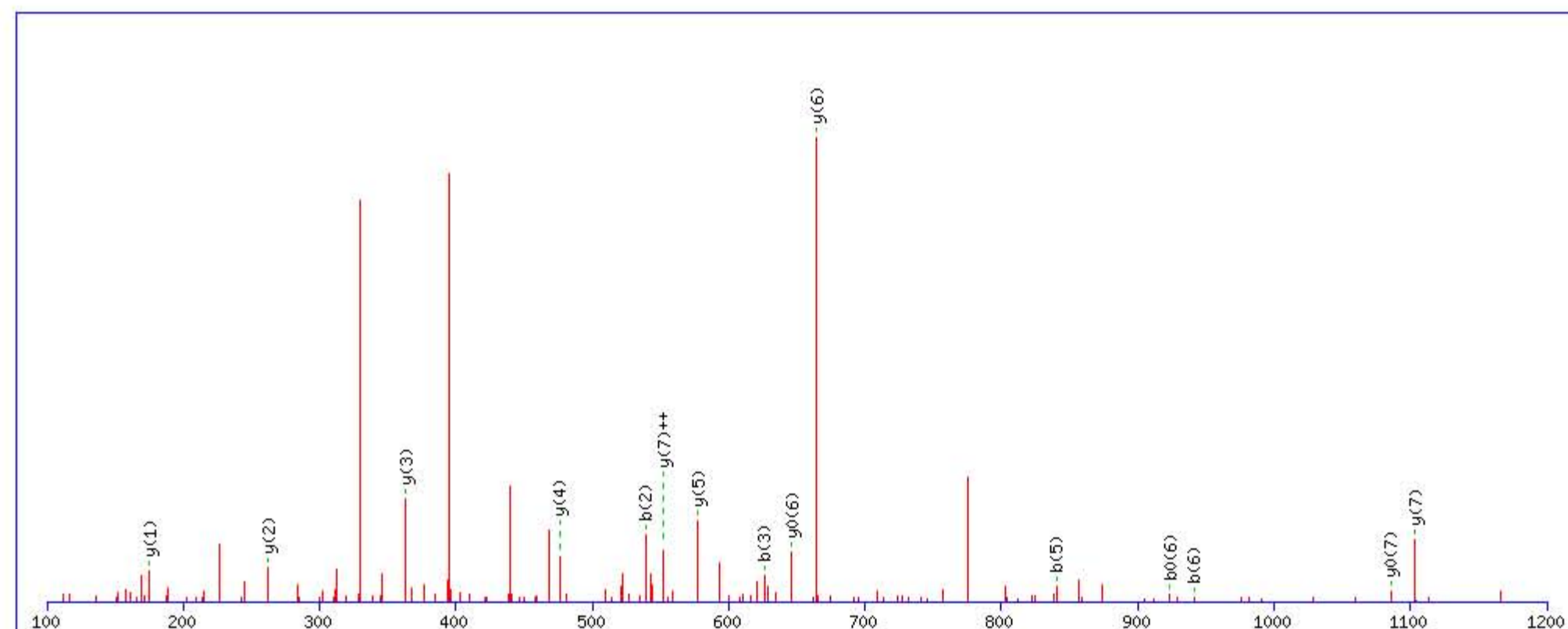
Title: Locus:1.1.1.3244.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1201.648895

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

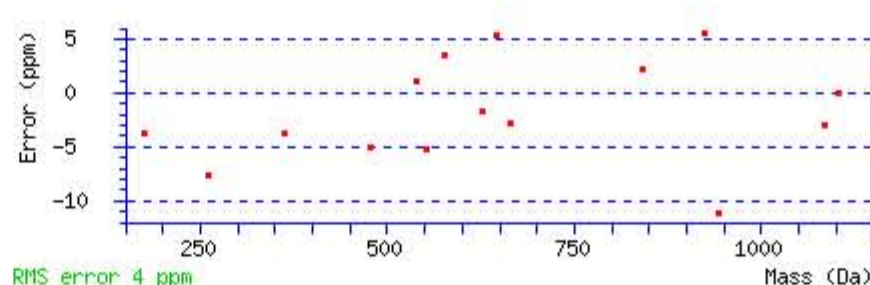
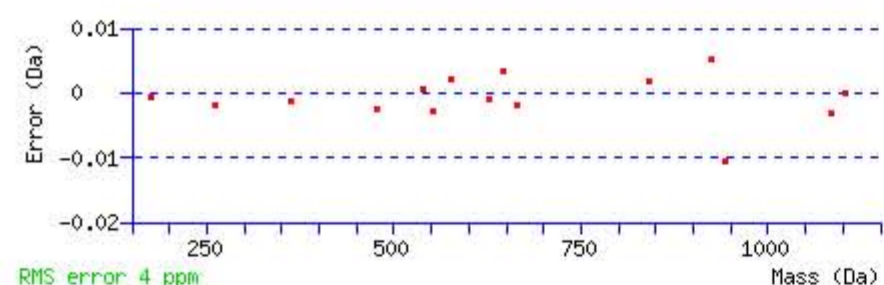
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 38 Expect: 0.0016

Matches : 15/76 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							8
2	<b>539.301016</b>	270.154146	522.274467	261.640872			Q	<b>1103.587756</b>	<b>552.297516</b>	1086.561207	543.784242	<b>1085.577191</b>	543.292234	7
3	<b>626.333044</b>	313.670160	609.306495	305.156886	608.322479	304.664878	S	<b>664.362430</b>	332.684853	647.335881	324.171579	<b>646.351865</b>	323.679571	6
4	727.380723	364.194000	710.354174	355.680725	709.370158	355.188717	T	<b>577.330402</b>	289.168839	560.303853	280.655565	559.319837	280.163557	5
5	<b>840.464787</b>	420.736032	823.438238	412.222757	822.454222	411.730749	I	<b>476.282723</b>	238.645000	459.256174	230.131725	458.272158	229.639717	4
6	<b>941.512466</b>	471.259871	924.485917	462.746597	<b>923.501901</b>	462.254589	T	<b>363.198659</b>	182.102968	346.172110	173.589693	345.188094	173.097685	3
7	1028.544494	514.775885	1011.517945	506.262611	1010.533929	505.770603	S	<b>262.150980</b>	131.579128	245.124431	123.065854	244.140415	122.573846	2
8							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VQSTITSR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
37.6	1201.648895	-0.003927	<a href="#">VQSTITSR</a>
7.5	1201.638992	0.005976	<a href="#">VQPPSHAR</a>
3.7	1201.641495	0.003473	<a href="#">NLTNVLGTQSR</a>
3.5	1201.630249	0.014719	<a href="#">KLD AEDVIGSR</a>
2.2	1201.638992	0.005976	<a href="#">VQGREFR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **MATTMIQSK**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 21042: 1336.652948 from(669.333750,2+) rtinseconds(1561) index(43255)

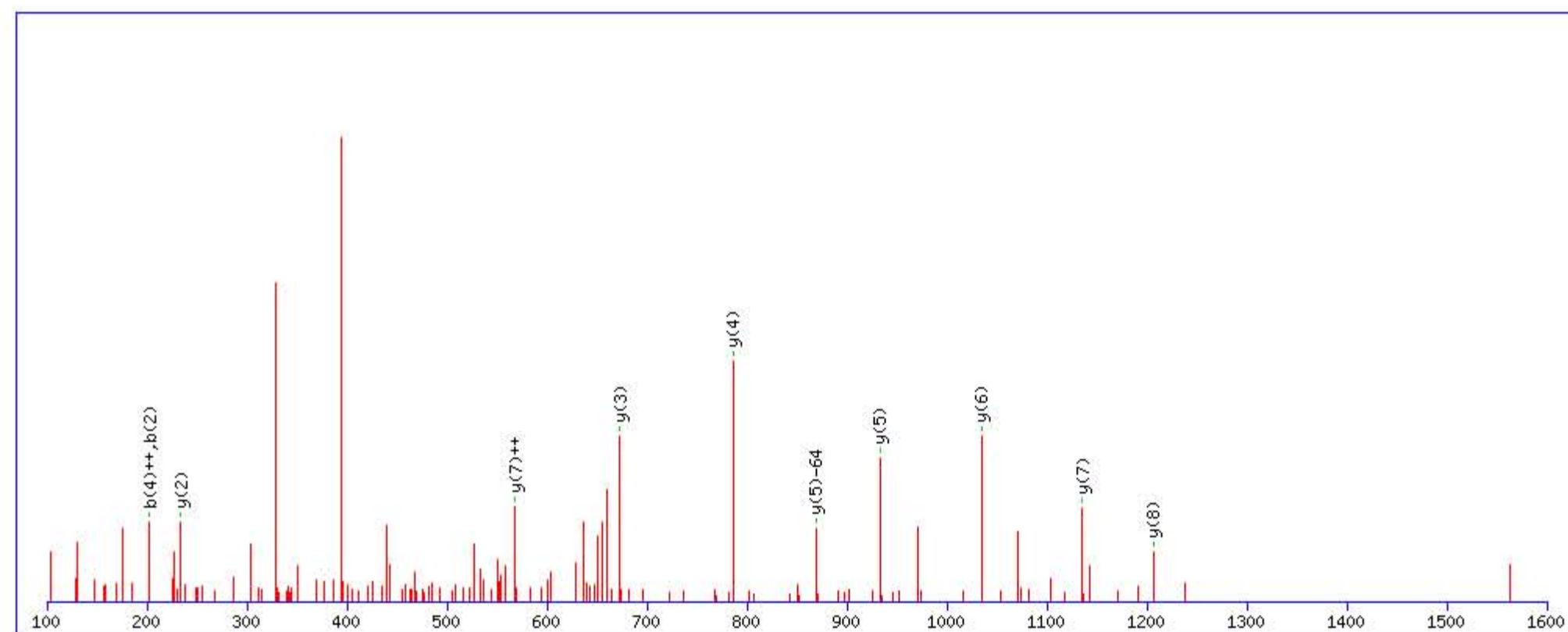
Title: Locus:1.1.1.3256.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1336.655289

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

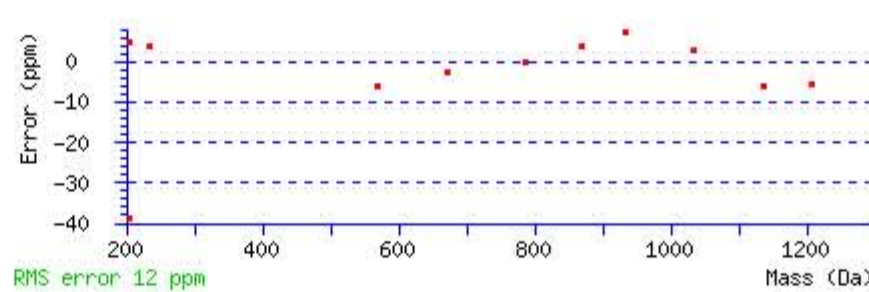
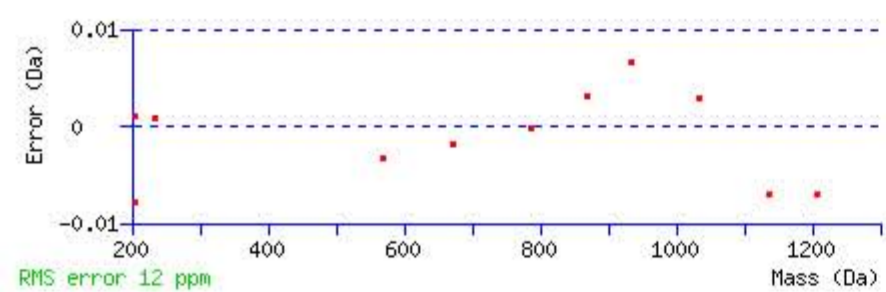
M5 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 60 Expect: 1.5e-005

Matches : 11/122 fragment ions using 12 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							9
2	<b>203.084875</b>	102.046075					A	<b>1206.622094</b>	603.814685	1189.595545	595.301411	1188.611529	594.809403	8
3	304.132554	152.569915			286.121989	143.564632	T	<b>1135.584980</b>	<b>568.296128</b>	1118.558431	559.782854	1117.574415	559.290846	7
4	405.180233	<b>203.093754</b>			387.169668	194.088472	T	<b>1034.537301</b>	517.772289	1017.510752	509.259014	1016.526736	508.767006	6
5	552.215633	276.611455			534.205068	267.606172	M	<b>933.489622</b>	467.248449	916.463073	458.735175	915.479057	458.243167	5
6	665.299697	333.153487			647.289132	324.148204	I	<b>786.454222</b>	393.730749	769.427673	385.217475	768.443657	384.725467	4
7	1104.525023	552.766149	1087.498474	544.252875	1086.514458	543.760867	Q	<b>673.370158</b>	337.188717	656.343609	328.675443	655.359593	328.183435	3
8	1191.557051	596.282164	1174.530502	587.768889	1173.546486	587.276881	S	<b>234.144832</b>	117.576054	217.118283	109.062780	216.134267	108.570772	2
9							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [MATTMIQSK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
59.8	1336.655289	-0.002341	<a href="#">MATTMIQSK</a>
9.5	1336.647018	0.005930	<a href="#">SDSELVSKSTER</a>
5.6	1336.662247	-0.009299	<a href="#">KAEELQATYER</a>
3.8	1336.662308	-0.009360	<a href="#">KDTWGVVSSGSSK</a>
1.5	1336.655289	-0.002341	<a href="#">MATTMIQSK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LSNENHGIAQR**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 28465: 1548.775782 from(517.265870,3+) rtinseconds(1451) index(42582)

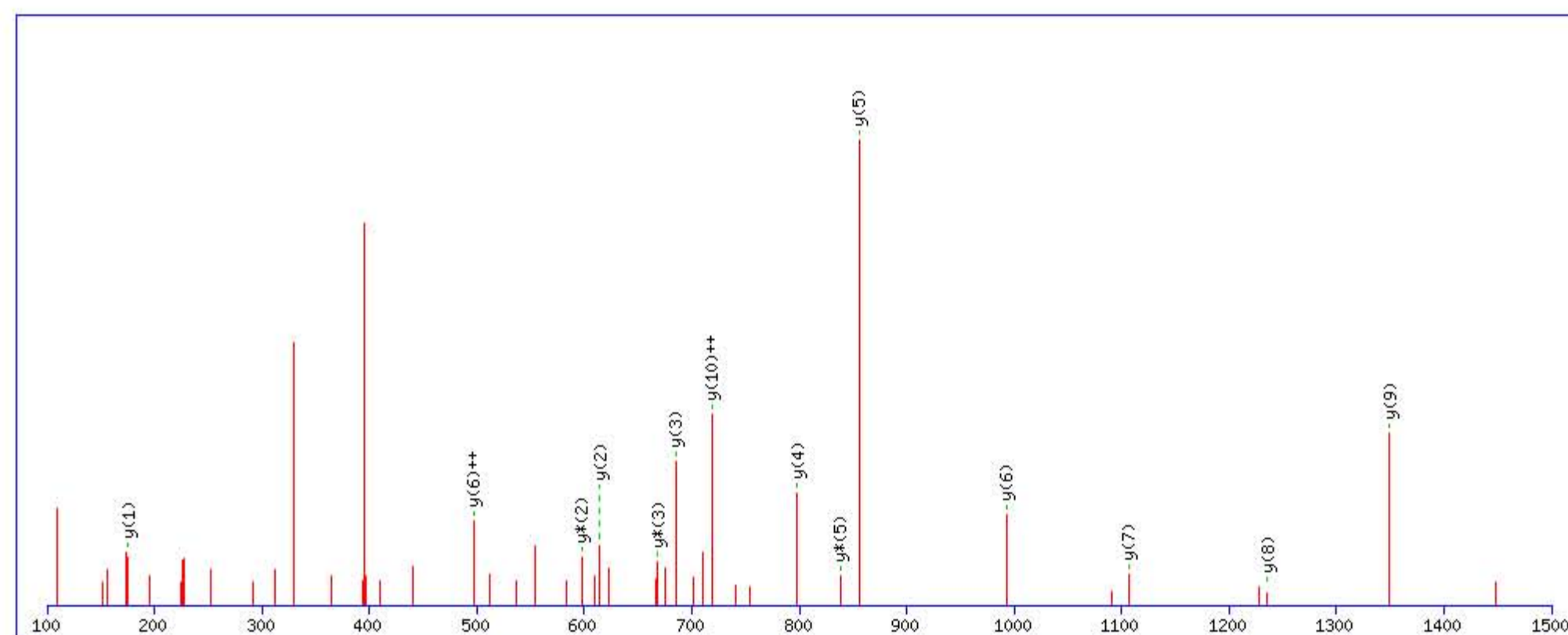
Title: Locus:1.1.1.3218.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1548.783066

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

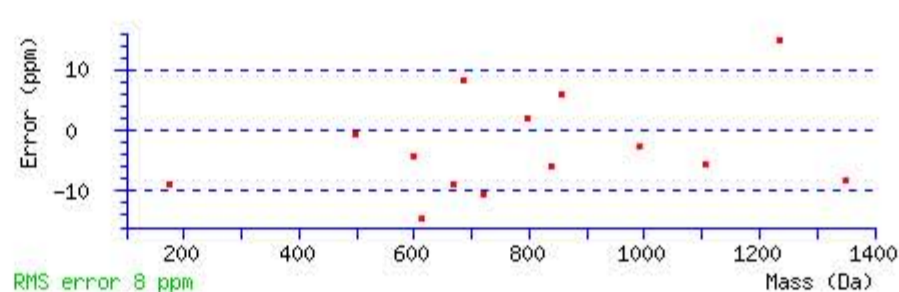
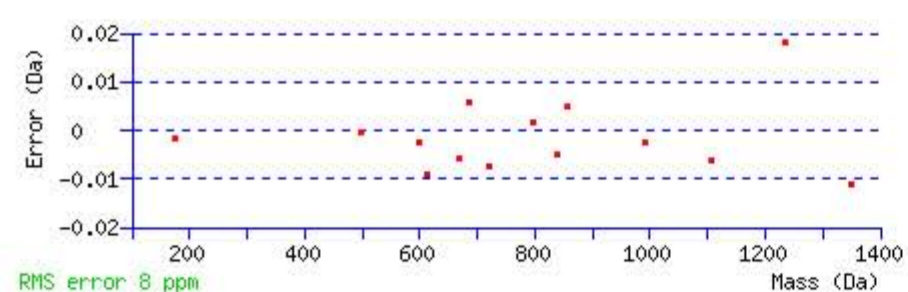
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 52 Expect: 2.5e-005

Matches : 14/100 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							11
2	201.123368	101.065322			183.112803	92.060039	S	1436.706307	718.856792	1419.679758	710.343517	1418.695742	709.851509	10
3	315.166295	158.086785	298.139746	149.573511	297.155730	149.081503	N	1349.674279	675.340778	1332.647730	666.827503	1331.663714	666.335495	9
4	444.208888	222.608082	427.182339	214.094808	426.198323	213.602800	E	1235.631352	618.319314	1218.604803	609.806040	1217.620787	609.314032	8
5	558.251815	279.629546	541.225266	271.116271	540.241250	270.624263	N	1106.588759	553.798018	1089.562210	545.284743			7
6	695.310727	348.159002	678.284178	339.645727	677.300162	339.153719	H	992.545832	496.776554	975.519283	488.263280			6
7	752.332191	376.669734	735.305642	368.156459	734.321626	367.664451	G	855.486920	428.247098	838.460371	419.733824			5
8	865.416255	433.211766	848.389706	424.698491	847.405690	424.206483	I	798.465456	399.736366	781.438907	391.223092			4
9	936.453369	468.730323	919.426820	460.217048	918.442804	459.725040	A	685.381392	343.194334	668.354843	334.681060			3
10	1375.678695	688.342986	1358.652146	679.829711	1357.668130	679.337703	Q	614.344278	307.675777	597.317729	299.162503			2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **LSNENHGIAQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
52.2	1548.783066	-0.007284	<a href="#">LSNENHGIAQR</a>
3.1	1548.798340	-0.022558	<a href="#">LSALRCGHLFGYR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **FYNQVSTPLLR**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 32647: 1647.873668 from(824.944110,2+) rtinseconds(2300) index(33613)

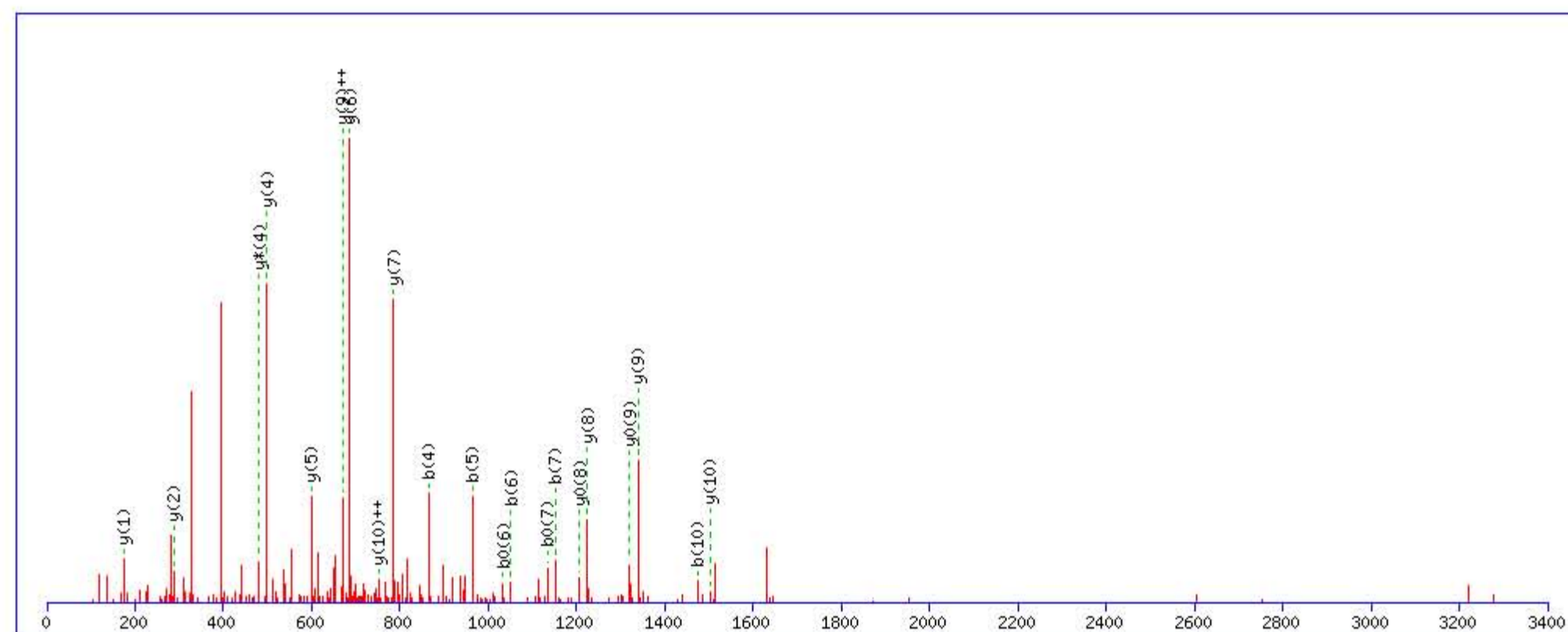
Title: Locus:1.1.1.3464.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1647.880676

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

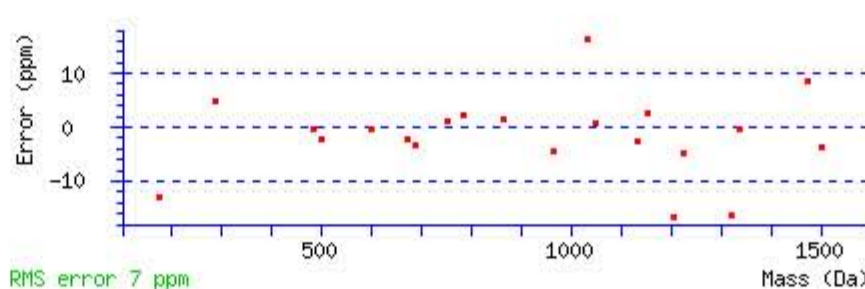
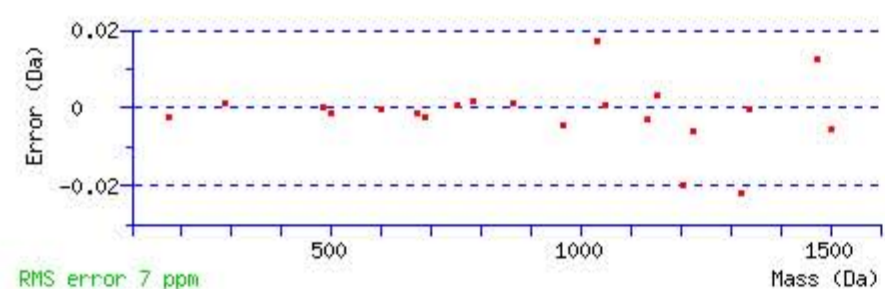
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 68 Expect: 3.2e-006

Matches : 21/98 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							11
2	311.139019	156.073148					Y	1501.819547	751.413411	1484.792998	742.900137	1483.808982	742.408129	10
3	425.181946	213.094611	408.155397	204.581337			N	1338.756218	669.881747	1321.729669	661.368472	1320.745653	660.876464	9
4	864.407272	432.707274	847.380723	424.194000			Q	1224.713291	612.860283	1207.686742	604.347009	1206.702726	603.855001	8
5	963.475686	482.241481	946.449137	473.728207			V	785.487965	393.247620	768.461416	384.734346	767.477400	384.242338	7
6	1050.507714	525.757495	1033.481165	517.244221	1032.497149	516.752213	S	686.419551	343.713414	669.393002	335.200139	668.408986	334.708131	6
7	1151.555393	576.281335	1134.528844	567.768060	1133.544828	567.276052	T	599.387523	300.197399	582.360974	291.684125	581.376958	291.192117	5
8	1248.608157	624.807717	1231.581608	616.294442	1230.597592	615.802434	P	498.339844	249.673560	481.313295	241.160285			4
9	1361.692221	681.349749	1344.665672	672.836474	1343.681656	672.344466	L	401.287080	201.147178	384.260531	192.633903			3
10	1474.776285	737.891780	1457.749736	729.378506	1456.765720	728.886498	L	288.203016	144.605146	271.176467	136.091871			2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **FYNQVSTPLLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
67.8	1647.880676	-0.007008	<a href="#">FYNQVSTPLLR</a>
8.7	1647.873260	0.000408	<a href="#">AFKELPVNAQNYVR</a>
6.1	1647.895264	-0.021596	<a href="#">MKPILLQGHHER</a>
4.5	1647.887878	-0.014210	<a href="#">TLNQQLTNHIR</a>
2.8	1647.887878	-0.014210	<a href="#">TLNQQLTNHIR</a>
1.6	1647.862015	0.011653	<a href="#">LSKQHLEKYPDYK</a>
0.6	1647.894394	-0.020726	<a href="#">LSDNIQNVVLKSYR</a>
0.0	1647.873260	0.000408	<a href="#">RQWQSELLQKYGL</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **IYGNQDTSSQLK**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 32956: 1663.819548 from(832.917050,2+) rtinseconds(1691) index(44094)

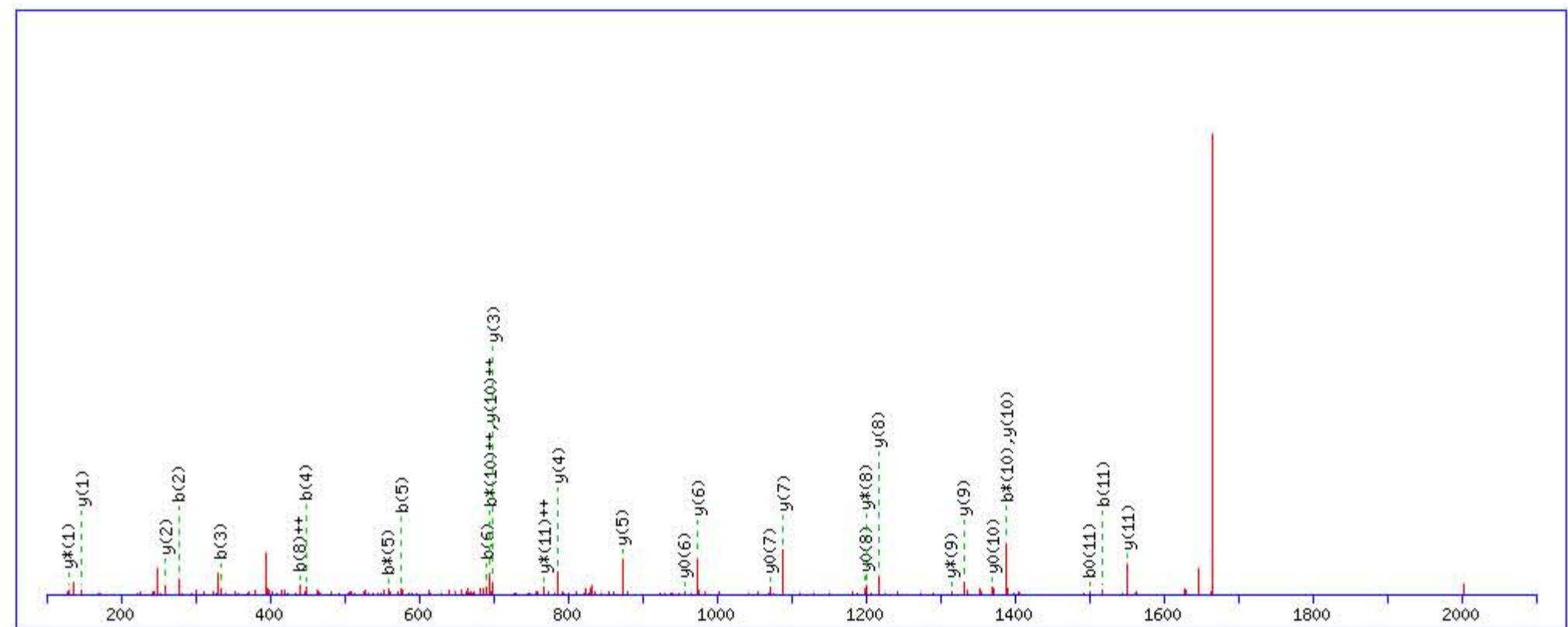
Title: Locus:1.1.1.3301.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1663.823944

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

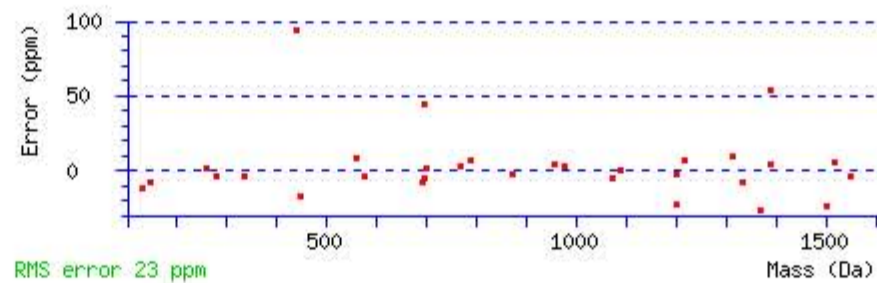
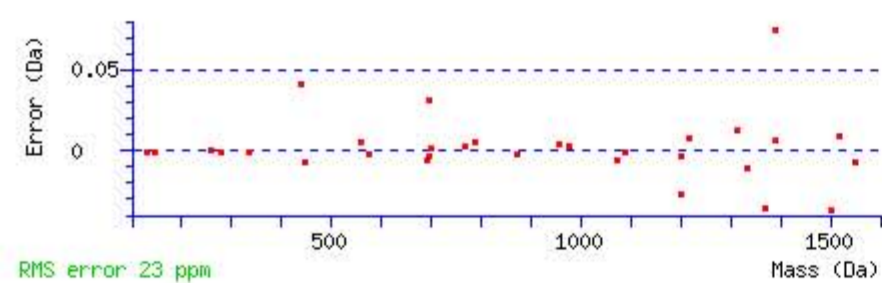
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 84 Expect: 7.2e-008

Matches : 31/110 fragment ions using 47 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							12
2	<b>277.154669</b>	139.080973					Y	<b>1551.747170</b>	776.377223	1534.720621	<b>767.863948</b>	1533.736605	767.371940	11
3	<b>334.176133</b>	167.591704					G	<b>1388.683841</b>	<b>694.845558</b>	1371.657292	686.332284	<b>1370.673276</b>	685.840276	10
4	<b>448.219060</b>	224.613168	431.192511	216.099894			N	<b>1331.662377</b>	666.334826	<b>1314.635828</b>	657.821552	1313.651812	657.329544	9
5	<b>576.277638</b>	288.642457	<b>559.251089</b>	280.129183			Q	<b>1217.619450</b>	609.313363	<b>1200.592901</b>	600.800088	<b>1199.608885</b>	600.308080	8
6	<b>691.304581</b>	346.155929	674.278032	337.642654	673.294016	337.150646	D	<b>1089.560872</b>	545.284074	1072.534323	536.770799	<b>1071.550307</b>	536.278791	7
7	792.352260	396.679768	775.325711	388.166494	774.341695	387.674486	T	<b>974.533929</b>	487.770602	957.507380	479.257328	<b>956.523364</b>	478.765320	6
8	879.384288	<b>440.195782</b>	862.357739	431.682507	861.373723	431.190499	S	<b>873.486250</b>	437.246763	856.459701	428.733488	855.475685	428.241480	5
9	966.416316	483.711796	949.389767	475.198521	948.405751	474.706513	S	<b>786.454222</b>	393.730749	769.427673	385.217474	768.443657	384.725466	4
10	1405.641642	703.324459	<b>1388.615093</b>	<b>694.811184</b>	1387.631077	694.319176	Q	<b>699.422194</b>	350.214735	682.395645	341.701460			3
11	<b>1518.725706</b>	759.866491	1501.699157	751.353216	<b>1500.715141</b>	750.861208	L	<b>260.196868</b>	130.602072	243.170319	122.088797			2
12							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **IYGNQDTSSQLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
83.5	1663.823944	-0.004396	<a href="#">IYGNQDTSSQLK</a>
20.4	1663.823944	-0.004396	<a href="#">IYGNQDTSSQLK</a>
7.0	1663.821442	-0.001894	<a href="#">LYGCFLRVYMQSK</a>
3.1	1663.806183	0.013365	<a href="#">DLSMFSQNMTHIK</a>
2.1	1663.835175	-0.015627	<a href="#">DCSIKWSVESGRK</a>
2.0	1663.831345	-0.011797	<a href="#">QLTDCISEFLK</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **AHVSFKPTVAQQR**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 35306: 1778.956842 from(593.992890,3+) rtinseconds(1549) index(43194)

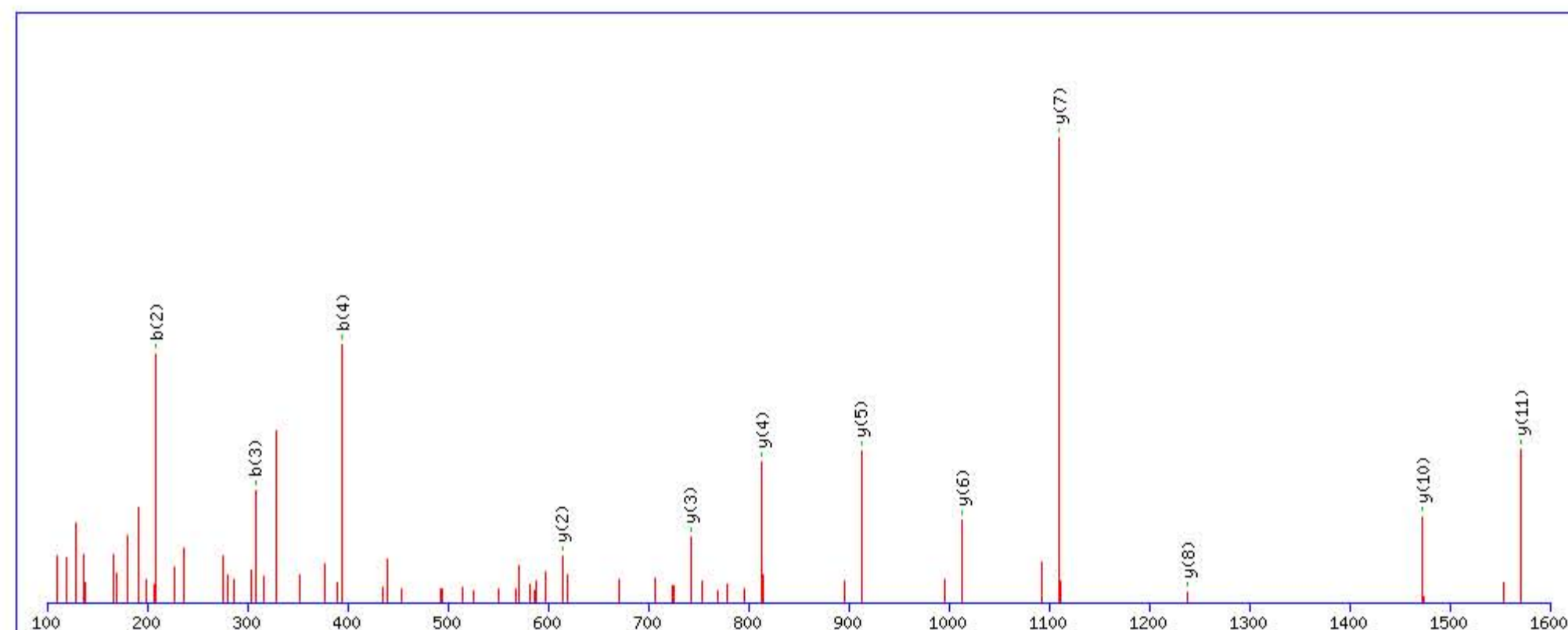
Title: Locus:1.1.1.3252.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1778.961395

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

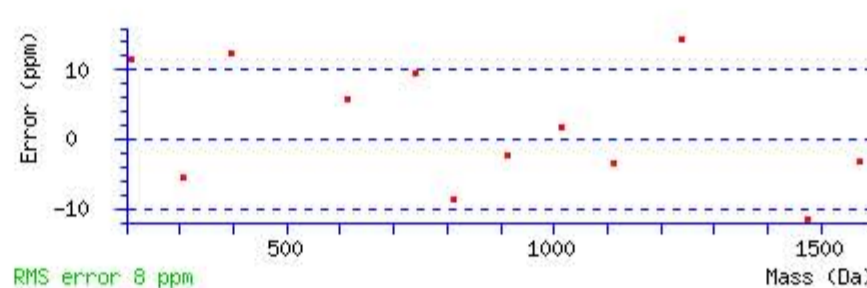
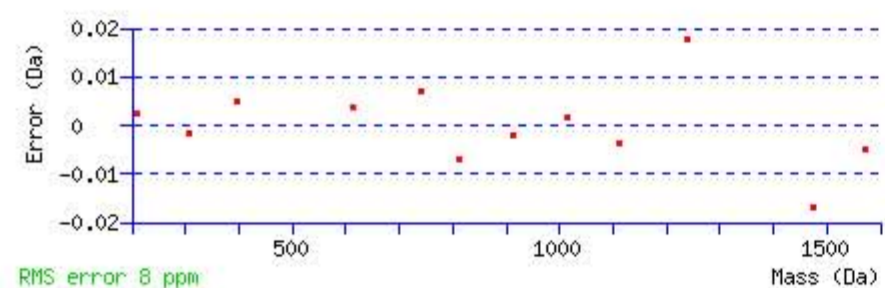
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 82 Expect: 1.4e-007

Matches : 12/118 fragment ions using 14 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							13
2	<b>209.103302</b>	105.055289					H	1708.931558	854.969417	1691.905009	846.456143	1690.920993	845.964135	12
3	<b>308.171716</b>	154.589496					V	<b>1571.872646</b>	786.439961	1554.846097	777.926687	1553.862081	777.434679	11
4	<b>395.203744</b>	198.105510			377.193179	189.100227	S	<b>1472.804232</b>	736.905754	1455.777683	728.392480	1454.793667	727.900472	10
5	542.272158	271.639717			524.261593	262.634435	F	1385.772204	693.389740	1368.745655	684.876466	1367.761639	684.384458	9
6	670.367121	335.687199	653.340572	327.173924	652.356556	326.681916	K	<b>1238.703790</b>	619.855533	1221.677241	611.342259	1220.693225	610.850251	8
7	767.419885	384.213581	750.393336	375.700306	749.409320	375.208298	P	<b>1110.608827</b>	555.808052	1093.582278	547.294777	1092.598262	546.802769	7
8	868.467564	434.737420	851.441015	426.224146	850.456999	425.732138	T	<b>1013.556063</b>	507.281670	996.529514	498.768395	995.545498	498.276387	6
9	967.535978	484.271627	950.509429	475.758353	949.525413	475.266345	V	<b>912.508384</b>	456.757830	895.481835	448.244556			5
10	1038.573092	519.790184	1021.546543	511.276910	1020.562527	510.784902	A	<b>813.439970</b>	407.223623	796.413421	398.710349			4
11	1166.631670	583.819473	1149.605121	575.306199	1148.621105	574.814191	Q	<b>742.402856</b>	371.705066	725.376307	363.191792			3
12	1605.856996	803.432136	1588.830447	794.918862	1587.846431	794.426854	Q	<b>614.344278</b>	307.675777	597.317729	299.162503			2
13							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **AHVSFKPTVAQQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
81.8	1778.961395	-0.004553	<a href="#">AHVSFKPTVAQQR</a>
65.5	1778.961395	-0.004553	<a href="#">AHVSFKPTVAQQR</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **AHVSFKPTVAQQR**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 35307: 1778.956842 from(593.992890,3+) rtinseconds(1564) index(43268)

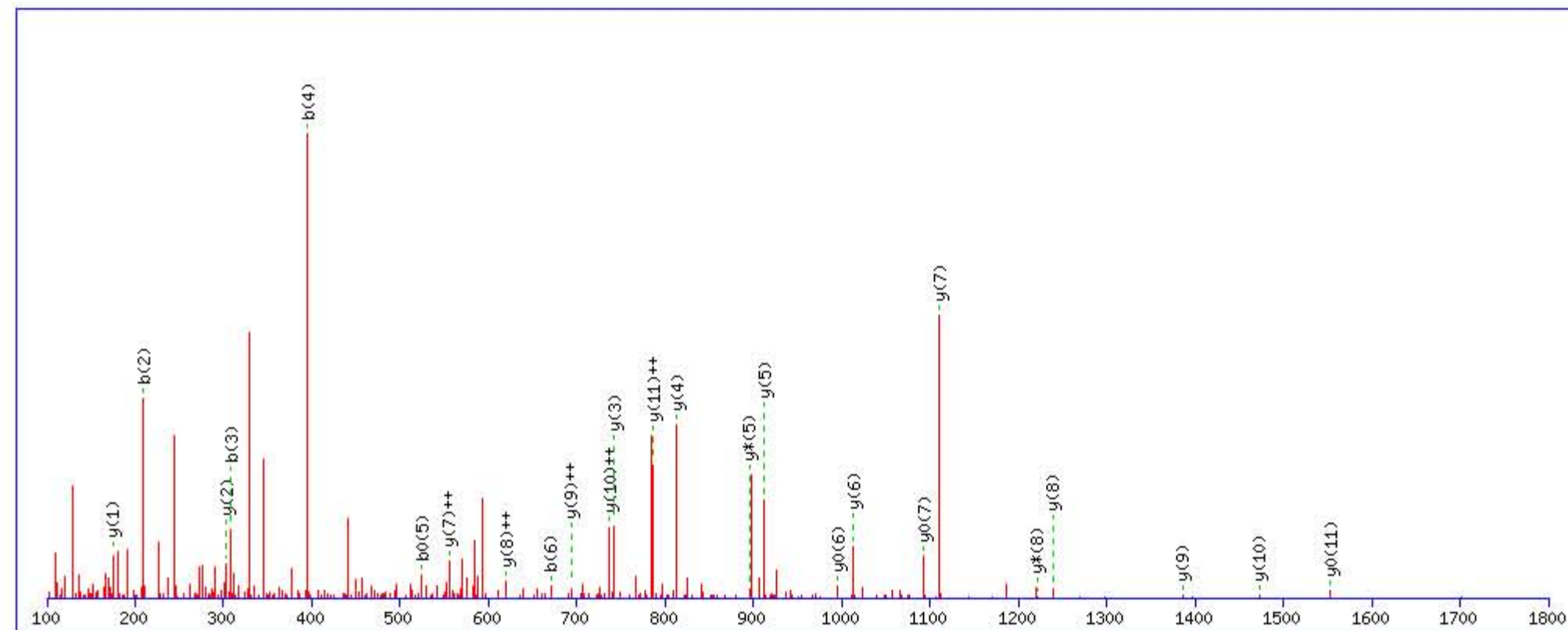
Title: Locus:1.1.1.3257.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1778.961395

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

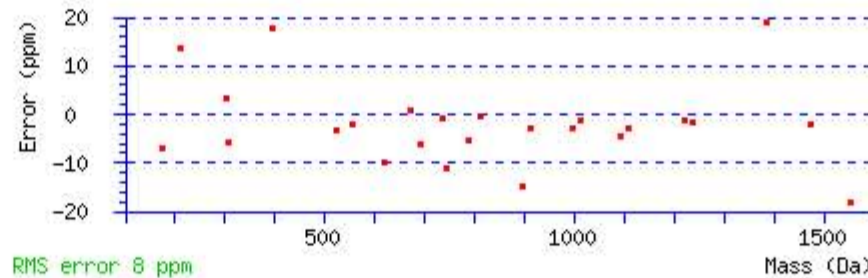
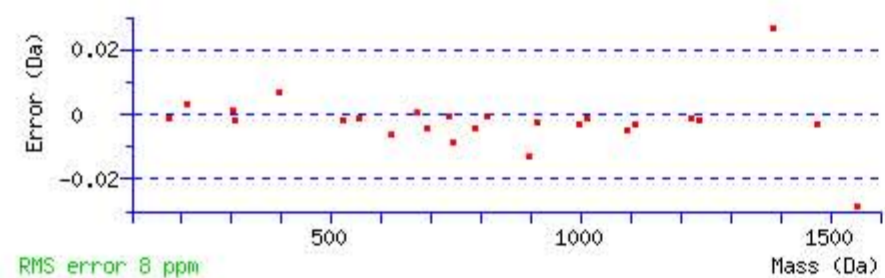
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 41 Expect: 0.00038

Matches : 25/118 fragment ions using 65 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							13
2	<b>209.103302</b>	105.055289					H	1708.931558	854.969417	1691.905009	846.456143	1690.920993	845.964135	12
3	<b>308.171716</b>	154.589496					V	1571.872646	<b>786.439961</b>	1554.846097	777.926687	<b>1553.862081</b>	777.434679	11
4	<b>395.203744</b>	198.105510			377.193179	189.100227	S	<b>1472.804232</b>	<b>736.905754</b>	1455.777683	728.392480	1454.793667	727.900472	10
5	542.272158	271.639717			<b>524.261593</b>	262.634435	F	<b>1385.772204</b>	<b>693.389740</b>	1368.745655	684.876466	1367.761639	684.384458	9
6	<b>670.367121</b>	335.687199	653.340572	327.173924	652.356556	326.681916	K	<b>1238.703790</b>	<b>619.855533</b>	<b>1221.677241</b>	611.342259	1220.693225	610.850251	8
7	767.419885	384.213581	750.393336	375.700306	749.409320	375.208298	P	<b>1110.608827</b>	<b>555.808052</b>	1093.582278	547.294777	<b>1092.598262</b>	546.802769	7
8	868.467564	434.737420	851.441015	426.224146	850.456999	425.732138	T	<b>1013.556063</b>	507.281670	996.529514	498.768395	<b>995.545498</b>	498.276387	6
9	967.535978	484.271627	950.509429	475.758353	949.525413	475.266345	V	<b>912.508384</b>	456.757830	<b>895.481835</b>	448.244556			5
10	1038.573092	519.790184	1021.546543	511.276910	1020.562527	510.784902	A	<b>813.439970</b>	407.223623	796.413421	398.710349			4
11	1477.798418	739.402847	1460.771869	730.889573	1459.787853	730.397565	Q	<b>742.402856</b>	371.705066	725.376307	363.191792			3
12	1605.856996	803.432136	1588.830447	794.918862	1587.846431	794.426854	Q	<b>303.177530</b>	152.092403	286.150981	143.579129			2
13							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **AHVSFKPTVAQQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
40.9	1778.961395	-0.004553	<a href="#">AHVSFKPTVAQQR</a>
32.2	1778.961395	-0.004553	<a href="#">AHVSFKPTVAQQR</a>
4.3	1778.982498	-0.025656	<a href="#">SRDAKLVLLNMPGPPR</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **IYGNQDTSSQLK**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 38876: 1974.993372 from(659.338400,3+) rtinseconds(2012) index(46169)

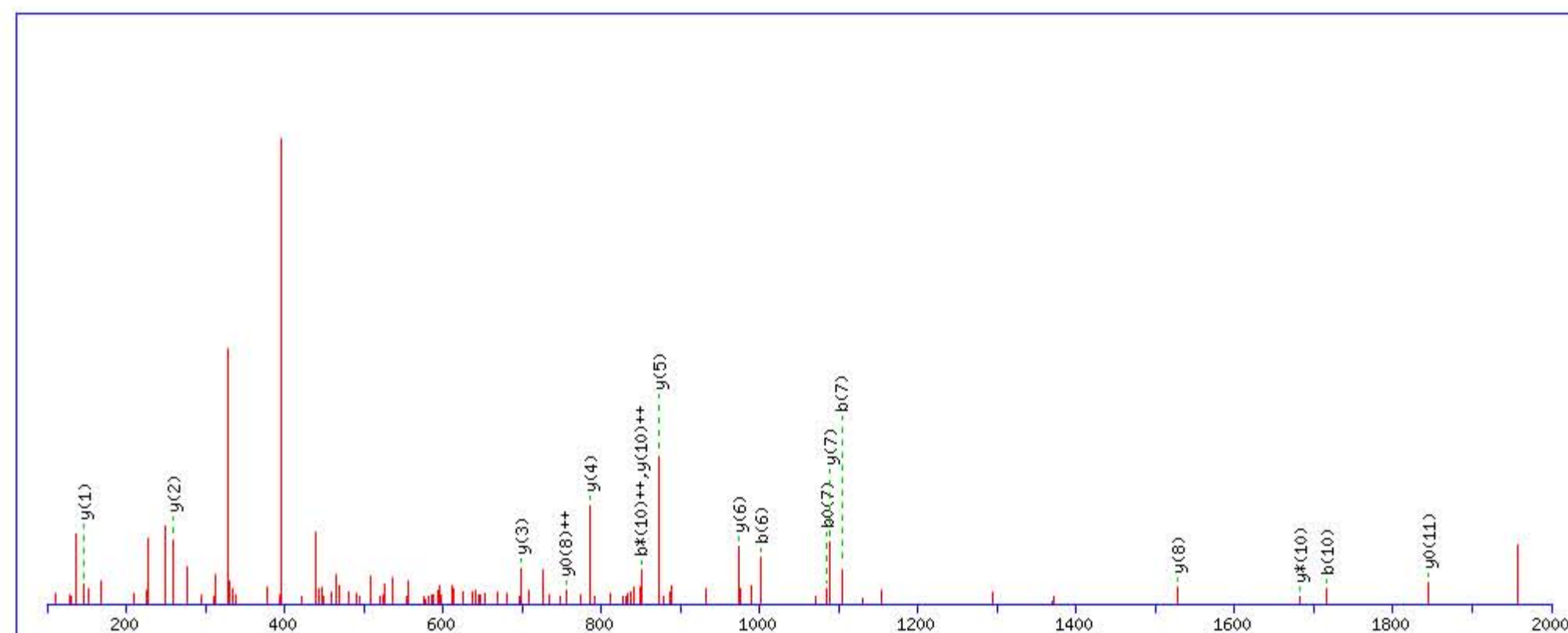
Title: Locus:1.1.1.3413.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1974.990692

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

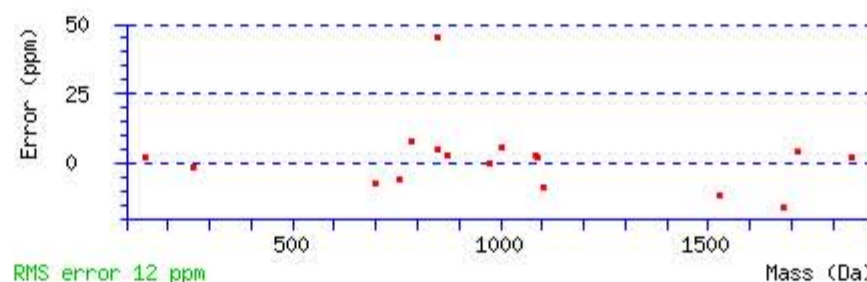
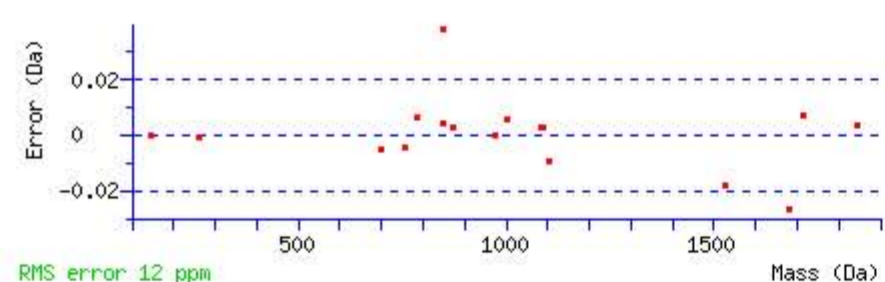
Q5 : Biotin:Thermo-21345 (Q)

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 31 Expect: 0.02

Matches : 17/110 fragment ions using 40 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							12
2	277.154669	139.080973					Y	1862.913918	931.960597	1845.887369	923.447323	1844.903353	922.955315	11
3	334.176133	167.591704					G	1699.850589	850.428933	1682.824040	841.915658	1681.840024	841.423650	10
4	448.219060	224.613168	431.192511	216.099894			N	1642.829125	821.918201	1625.802576	813.404926	1624.818560	812.912918	9
5	887.444386	444.225831	870.417837	435.712557			Q	1528.786198	764.896737	1511.759649	756.383463	1510.775633	755.891455	8
6	1002.471329	501.739303	985.444780	493.226028	984.460764	492.734020	D	1089.560872	545.284074	1072.534323	536.770800	1071.550307	536.278792	7
7	1103.519008	552.263142	1086.492459	543.749868	1085.508443	543.257860	T	974.533929	487.770603	957.507380	479.257328	956.523364	478.765320	6
8	1190.551036	595.779156	1173.524487	587.265882	1172.540471	586.773874	S	873.486250	437.246763	856.459701	428.733489	855.475685	428.241481	5
9	1277.583064	639.295170	1260.556515	630.781896	1259.572499	630.289888	S	786.454222	393.730749	769.427673	385.217475	768.443657	384.725467	4
10	1716.808390	858.907833	1699.781841	850.394559	1698.797825	849.902551	Q	699.422194	350.214735	682.395645	341.701461			3
11	1829.892454	915.449865	1812.865905	906.936591	1811.881889	906.444583	L	260.196868	130.602072	243.170319	122.088797			2
12							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **IYGNQDTSSQLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
31.1	1974.990692	0.002680	<a href="#">IYGNQDTSSQLK</a>

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



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **AHVSFKPTVAQQR**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 41448: 2090.128542 from(697.716790,3+) rtinseconds(1811) index(44829)

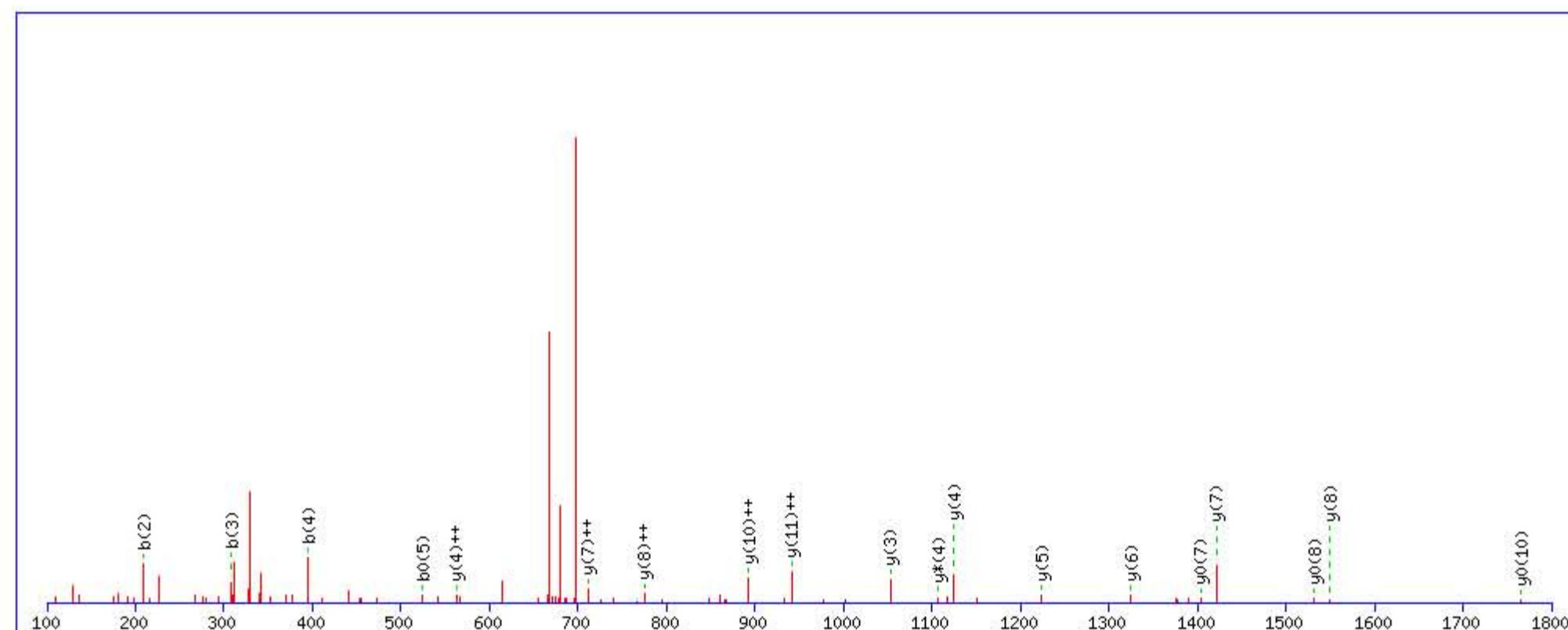
Title: Locus:1.1.1.3343.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2090.128143

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

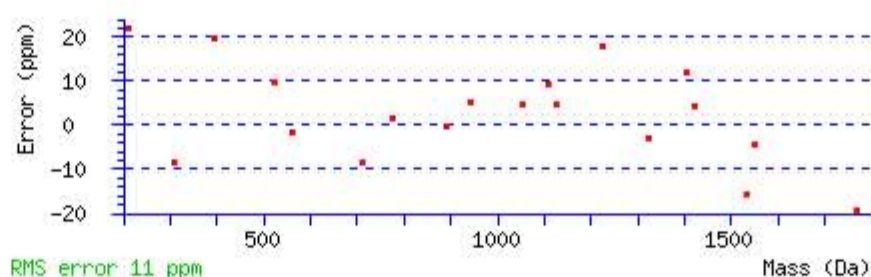
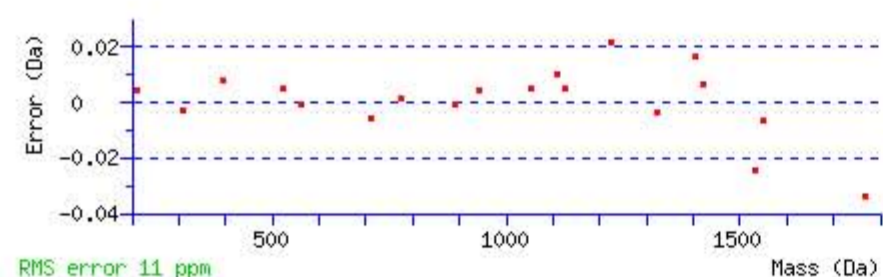
Q11 : Biotin:Thermo-21345 (Q)

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 31 Expect: 0.018

Matches : 19/118 fragment ions using 30 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							13
2	<b>209.103302</b>	105.055289					H	2020.098306	1010.552791	2003.071757	1002.039517	2002.087741	1001.547509	12
3	<b>308.171716</b>	154.589496					V	1883.039394	<b>942.023335</b>	1866.012845	933.510061	1865.028829	933.018053	11
4	<b>395.203744</b>	198.105510			377.193179	189.100227	S	1783.970980	<b>892.489128</b>	1766.944431	883.975854	<b>1765.960415</b>	883.483846	10
5	542.272158	271.639717			<b>524.261593</b>	262.634435	F	1696.938952	848.973114	1679.912403	840.459840	1678.928387	839.967832	9
6	670.367121	335.687199	653.340572	327.173924	652.356556	326.681916	K	<b>1549.870538</b>	<b>775.438907</b>	1532.843989	766.925633	<b>1531.859973</b>	766.433625	8
7	767.419885	384.213581	750.393336	375.700306	749.409320	375.208298	P	<b>1421.775575</b>	<b>711.391426</b>	1404.749026	702.878151	<b>1403.765010</b>	702.386143	7
8	868.467564	434.737420	851.441015	426.224146	850.456999	425.732138	T	<b>1324.722811</b>	662.865044	1307.696262	654.351769	1306.712246	653.859761	6
9	967.535978	484.271627	950.509429	475.758353	949.525413	475.266345	V	<b>1223.675132</b>	612.341204	1206.648583	603.827930			5
10	1038.573092	519.790184	1021.546543	511.276910	1020.562527	510.784902	A	<b>1124.606718</b>	<b>562.806997</b>	<b>1107.580169</b>	554.293723			4
11	1477.798418	739.402847	1460.771869	730.889573	1459.787853	730.397565	Q	<b>1053.569604</b>	527.288440	1036.543055	518.775166			3
12	1917.023744	959.015510	1899.997195	950.502236	1899.013179	950.010228	Q	614.344278	307.675777	597.317729	299.162503			2
13							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **AHVSFKPTVAQQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
30.6	2090.128143	0.000399	<a href="#">AHVSFKPTVAQQR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **AEDHFSVIDFNQIR**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 41805: 2115.013392 from(706.011740,3+) rtinseconds(2302) index(33623)

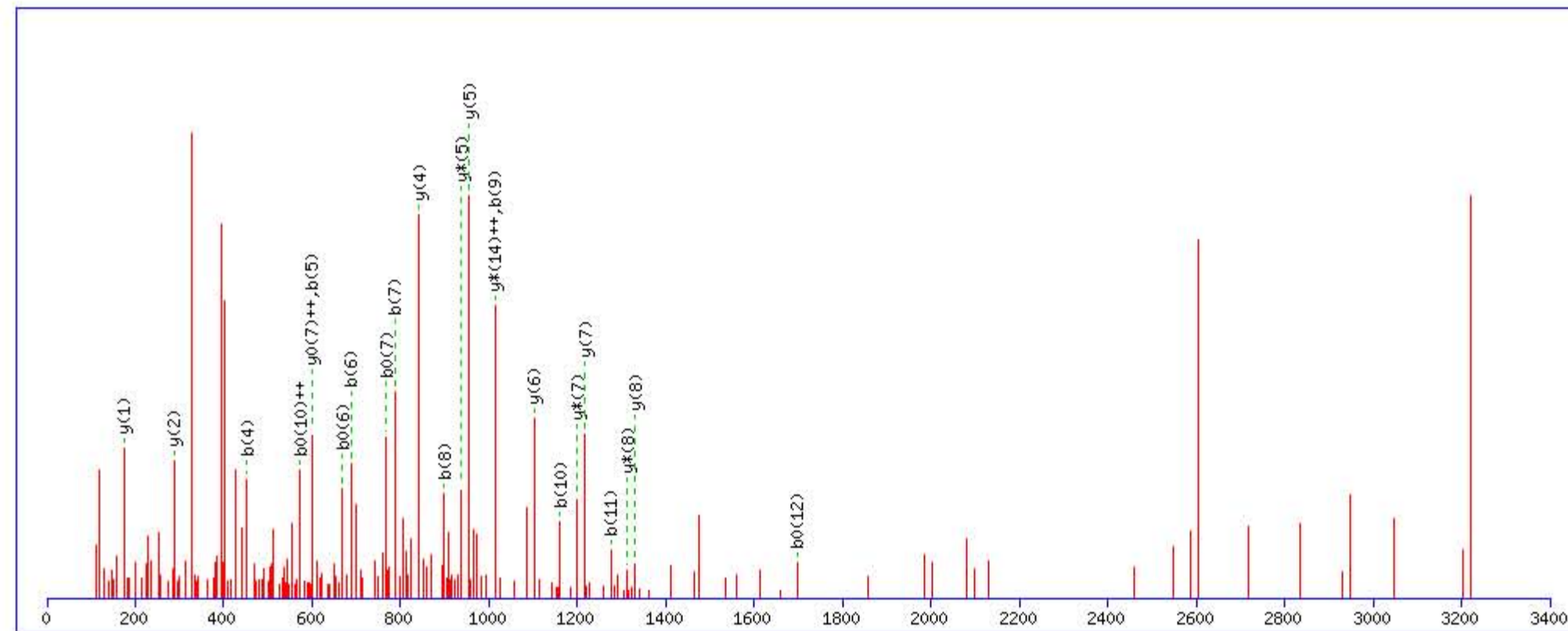
Title: Locus:1.1.1.3465.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2115.020752

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

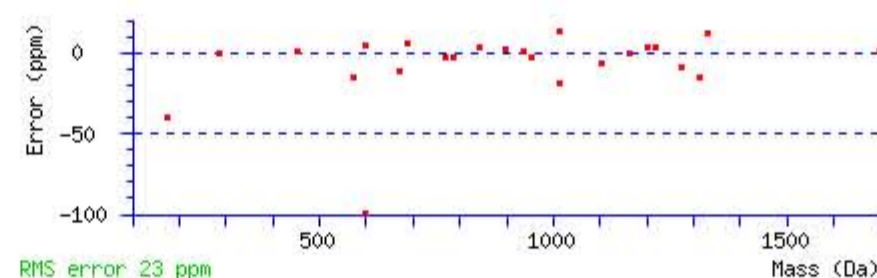
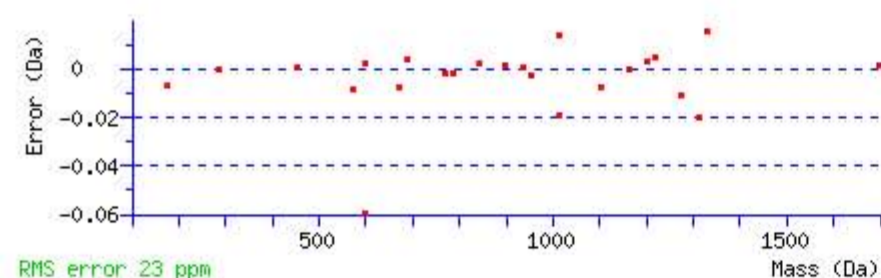
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 50 Expect: 5.1e-005

Matches : 24/134 fragment ions using 37 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							15
2	201.086983	101.047130			183.076418	92.041847	E	2044.990921	1022.999099	2027.964372	1014.485824	2026.980356	1013.993816	14
3	316.113926	158.560601			298.103361	149.555319	D	1915.948328	958.477802	1898.921779	949.964528	1897.937763	949.472519	13
4	453.172838	227.090057			435.162273	218.084775	H	1800.921385	900.964331	1783.894836	892.451056	1782.910820	891.959048	12
5	600.241252	300.624264			582.230687	291.618982	F	1663.862473	832.434874	1646.835924	823.921600	1645.851908	823.429592	11
6	687.273280	344.140278			669.262715	335.134996	S	1516.794059	758.900668	1499.767510	750.387393	1498.783494	749.895385	10
7	786.341694	393.674485			768.331129	384.669202	V	1429.762031	715.384654	1412.735482	706.871379	1411.751466	706.379371	9
8	899.425758	450.216517			881.415193	441.211234	I	1330.693617	665.850447	1313.667068	657.337172	1312.683052	656.845164	8
9	1014.452701	507.729988			996.442136	498.724706	D	1217.609553	609.308415	1200.583004	600.795140	1199.598988	600.303132	7
10	1161.521115	581.264196			1143.510550	572.258913	F	1102.582610	551.794943	1085.556061	543.281669			6
11	1275.564042	638.285659	1258.537493	629.772385	1257.553477	629.280376	N	955.514196	478.260736	938.487647	469.747462			5
12	1714.789368	857.898322	1697.762819	849.385048	1696.778803	848.893039	Q	841.471269	421.239273	824.444720	412.725998			4
13	1828.832295	914.919785	1811.805746	906.406511	1810.821730	905.914503	N	402.245943	201.626610	385.219394	193.113335			3
14	1941.916359	971.461817	1924.889810	962.948543	1923.905794	962.456535	I	288.203016	144.605146	271.176467	136.091872			2
15							R	175.118952	88.063114	158.092403	79.549840			1



NCBI BLAST search of **AEDHFSVIDFNQIR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
49.7	2115.020752	-0.007360	<a href="#">AEDHFSVIDFNQIR</a>
3.9	2115.033981	-0.020589	<a href="#">ESADRQVLMQEEIK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VVNNSPQPQNVVFDVQIPK**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 47015: 2432.289792 from(811.770540,3+) rtinseconds(2464) index(48631)

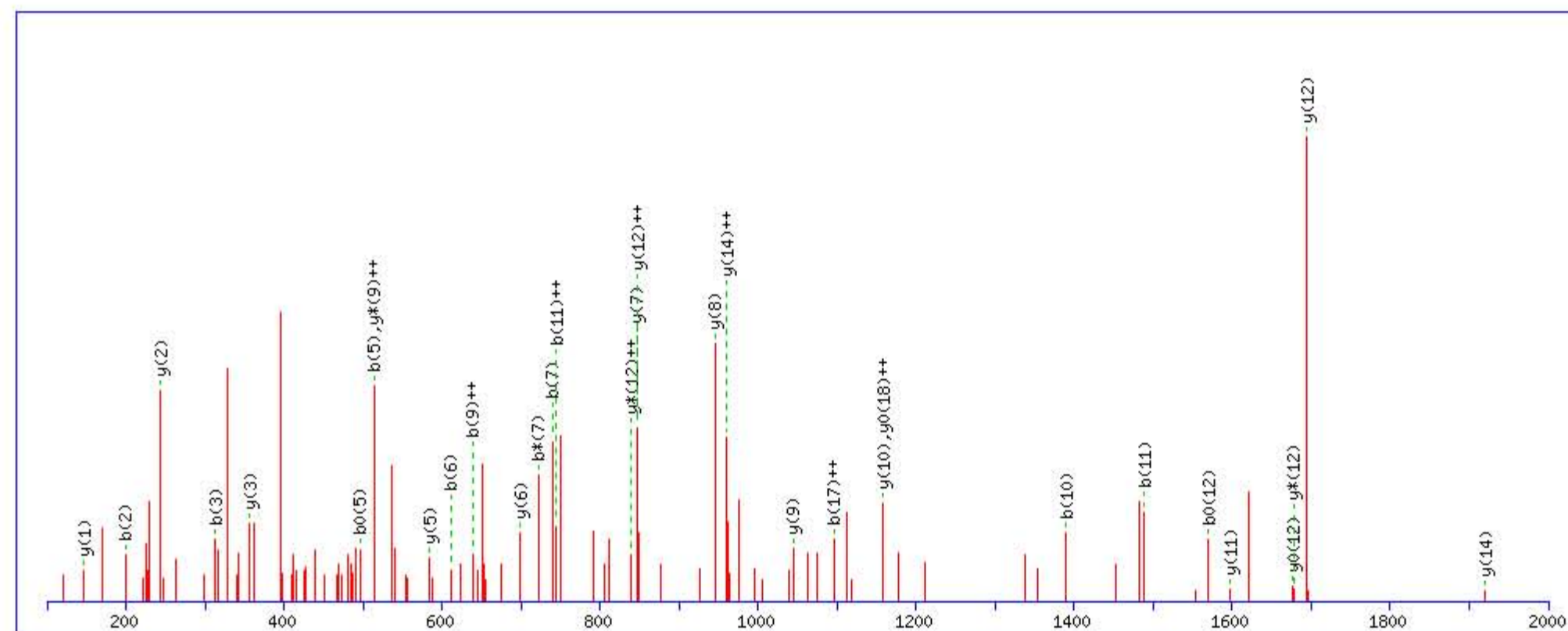
Title: Locus:1.1.1.3570.21 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2432.288620

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

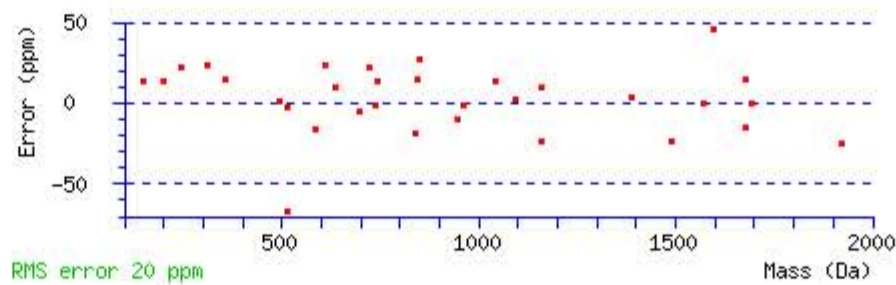
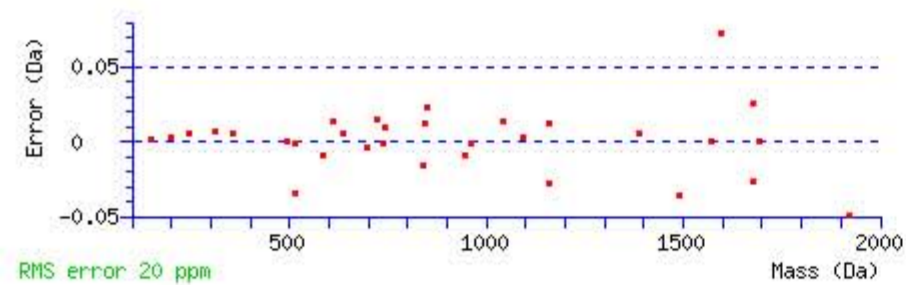
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 62 Expect: 1.6e-005

Matches : 32/194 fragment ions using 59 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							19
2	<b>199.144104</b>	100.075690					V	2334.227464	1167.617370	2317.200915	1159.104095	2316.216899	<b>1158.612087</b>	18
3	<b>313.187031</b>	157.097153	296.160482	148.583879			N	2235.159050	1118.083163	2218.132501	1109.569888	2217.148485	1109.077880	17
4	427.229958	214.118617	410.203409	205.605343			N	2121.116123	1061.061699	2104.089574	1052.548425	2103.105558	1052.056417	16
5	<b>514.261986</b>	257.634631	497.235437	249.121357	<b>496.251421</b>	248.629349	S	2007.073196	1004.040236	1990.046647	995.526962	1989.062631	995.034954	15
6	<b>611.314750</b>	306.161013	594.288201	297.647739	593.304185	297.155731	P	<b>1920.041168</b>	<b>960.524222</b>	1903.014619	952.010948	1902.030603	951.518940	14
7	<b>739.373328</b>	370.190302	<b>722.346779</b>	361.677028	721.362763	361.185020	Q	1822.988404	911.997840	1805.961855	903.484566	1804.977839	902.992558	13
8	836.426092	418.716684	819.399543	410.203410	818.415527	409.711402	P	<b>1694.929826</b>	<b>847.968551</b>	<b>1677.903277</b>	<b>839.455277</b>	<b>1676.919261</b>	838.963269	12
9	1275.651418	<b>638.329347</b>	1258.624869	629.816073	1257.640853	629.324065	Q	<b>1597.877062</b>	799.442169	1580.850513	790.928895	1579.866497	790.436887	11
10	<b>1389.694345</b>	695.350811	1372.667796	686.837536	1371.683780	686.345528	N	<b>1158.651736</b>	579.829506	1141.625187	571.316232	1140.641171	570.824224	10
11	<b>1488.762759</b>	<b>744.885018</b>	1471.736210	736.371743	1470.752194	735.879735	V	<b>1044.608809</b>	522.808043	1027.582260	<b>514.294768</b>	1026.598244	513.802760	9
12	1587.831173	794.419225	1570.804624	785.905950	<b>1569.820608</b>	785.413942	V	<b>945.540395</b>	473.273836	928.513846	464.760561	927.529830	464.268553	8
13	1734.899587	867.953432	1717.873038	859.440157	1716.889022	858.948149	F	<b>846.471981</b>	423.739629	829.445432	415.226354	828.461416	414.734346	7
14	1849.926530	925.466903	1832.899981	916.953629	1831.915965	916.461621	D	<b>699.403567</b>	350.205422	682.377018	341.692147	681.393002	341.200139	6
15	1948.994944	975.001110	1931.968395	966.487836	1930.984379	965.995828	V	<b>584.376624</b>	292.691950	567.350075	284.178676			5
16	2077.053522	1039.030399	2060.026973	1030.517124	2059.042957	1030.025117	Q	485.308210	243.157743	468.281661	234.644469			4
17	2190.137586	<b>1095.572431</b>	2173.111037	1087.059157	2172.127021	1086.567149	I	<b>357.249632</b>	179.128454	340.223083	170.615180			3
18	2287.190350	1144.098813	2270.163801	1135.585539	2269.179785	1135.093531	P	<b>244.165568</b>	122.586422	227.139019	114.073148			2
19							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VVNNSPQPQNVVFDVQIPK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
61.6	2432.288620	0.001172	<a href="#">VVNNSPQPQNVVFDVQIPK</a>
33.9	2432.288620	0.001172	<a href="#">VVNNSPQPQNVVFDVQIPK</a>
24.7	2432.288620	0.001172	<a href="#">VVNNSPQPQNVVFDVQIPK</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VVNNSPQPQNVVFDVQIPK**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 47016: 2432.290722 from(811.770850,3+) rtinseconds(2437) index(48521)

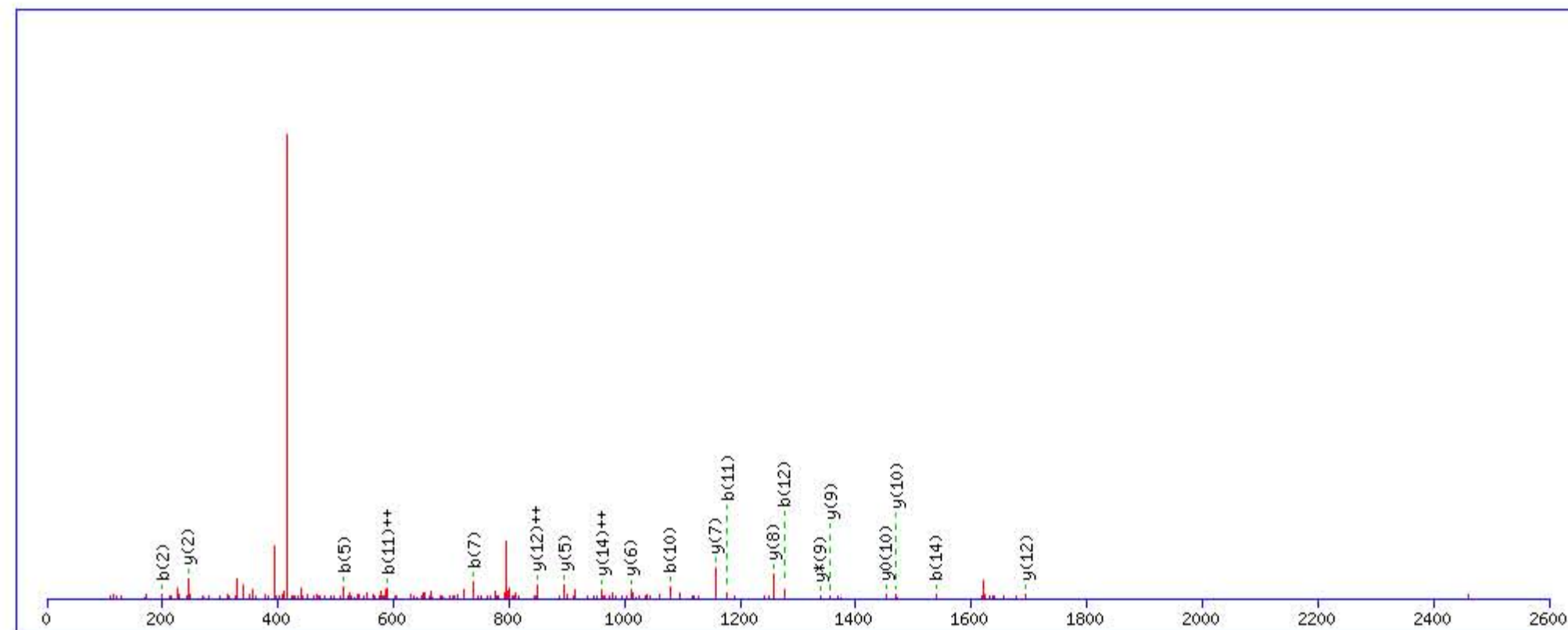
Title: Locus:1.1.1.3561.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2432.288620

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

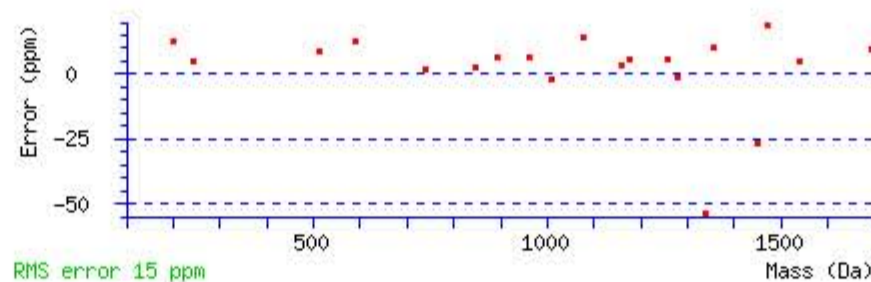
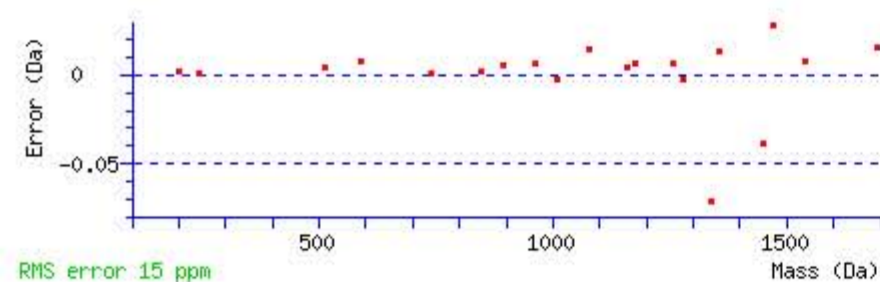
Variable modifications:

Q16 : Biotin:Thermo-21345 (Q)

Ions Score: 45 Expect: 0.00079

Matches : 20/194 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							19
2	<b>199.144104</b>	100.075690					V	2334.227464	1167.617370	2317.200915	1159.104096	2316.216899	1158.612088	18
3	313.187031	157.097153	296.160482	148.583879			N	2235.159050	1118.083163	2218.132501	1109.569888	2217.148485	1109.077881	17
4	427.229958	214.118617	410.203409	205.605343			N	2121.116123	1061.061700	2104.089574	1052.548425	2103.105558	1052.056417	16
5	<b>514.261986</b>	257.634631	497.235437	249.121357	496.251421	248.629349	S	2007.073196	1004.040236	1990.046647	995.526962	1989.062631	995.034954	15
6	611.314750	306.161013	594.288201	297.647739	593.304185	297.155731	P	1920.041168	<b>960.524222</b>	1903.014619	952.010948	1902.030603	951.518940	14
7	<b>739.373328</b>	370.190302	722.346779	361.677028	721.362763	361.185020	Q	1822.988404	911.997840	1805.961855	903.484566	1804.977839	902.992558	13
8	836.426092	418.716684	819.399543	410.203410	818.415527	409.711402	P	<b>1694.929826</b>	<b>847.968551</b>	1677.903277	839.455277	1676.919261	838.963269	12
9	964.484670	482.745973	947.458121	474.232699	946.474105	473.740691	Q	1597.877062	799.442169	1580.850513	790.928895	1579.866497	790.436887	11
10	<b>1078.527597</b>	539.767437	1061.501048	531.254162	1060.517032	530.762154	N	<b>1469.818484</b>	735.412880	1452.791935	726.899606	<b>1451.807919</b>	726.407598	10
11	<b>1177.596011</b>	<b>589.301644</b>	1160.569462	580.788369	1159.585446	580.296361	V	<b>1355.775557</b>	678.391417	<b>1338.749008</b>	669.878142	1337.764992	669.386134	9
12	<b>1276.664425</b>	638.835851	1259.637876	630.322576	1258.653860	629.830568	V	<b>1256.707143</b>	628.857210	1239.680594	620.343935	1238.696578	619.851927	8
13	1423.732839	712.370058	1406.706290	703.856783	1405.722274	703.364775	F	<b>1157.638729</b>	579.323003	1140.612180	570.809728	1139.628164	570.317720	7
14	<b>1538.759782</b>	769.883529	1521.733233	761.370255	1520.749217	760.878247	D	<b>1010.570315</b>	505.788796	993.543766	497.275521	992.559750	496.783513	6
15	1637.828196	819.417736	1620.801647	810.904462	1619.817631	810.412454	V	<b>895.543372</b>	448.275324	878.516823	439.762050			5
16	2077.053522	1039.030399	2060.026973	1030.517125	2059.042957	1030.025117	Q	796.474958	398.741117	779.448409	390.227843			4
17	2190.137586	1095.572431	2173.111037	1087.059157	2172.127021	1086.567149	I	357.249632	179.128454	340.223083	170.615180			3
18	2287.190350	1144.098813	2270.163801	1135.585539	2269.179785	1135.093531	P	<b>244.165568</b>	122.586422	227.139019	114.073148			2
19							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [VVNNSPQPQNVVFDVQIPK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
44.6	2432.288620	0.002102	<a href="#">VVNNSPQPQNVVFDVQIPK</a>
1.3	2432.288620	0.002102	<a href="#">VVNNSPQPQNVVFDVQIPK</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **MLADAPPQDPSCCSGALYYGSK**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 50354: 2698.196412 from(900.406080,3+) rtinseconds(2128) index(46774)

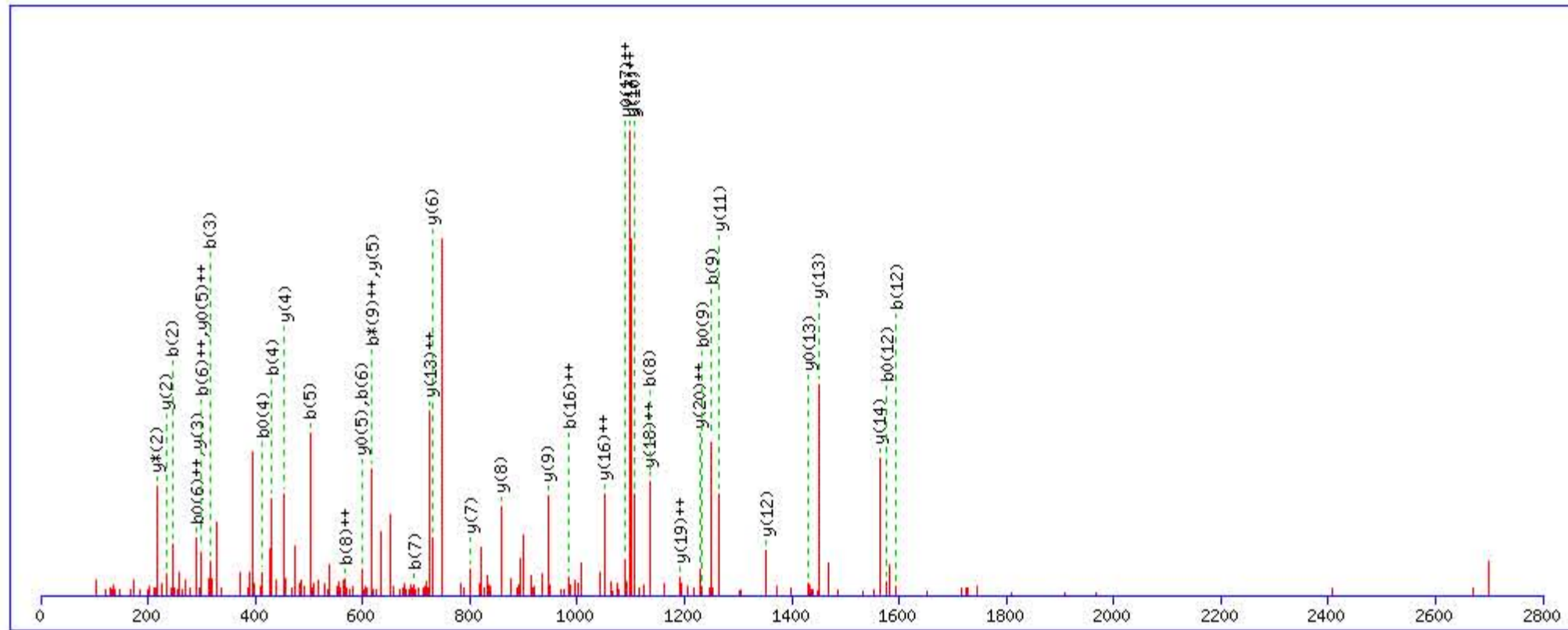
Title: Locus:1.1.1.3453.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2698.189941

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

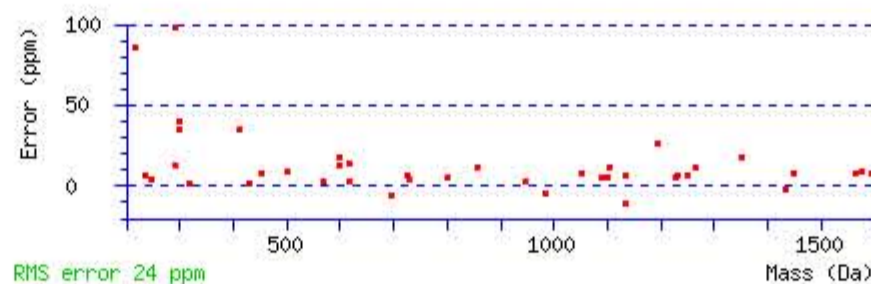
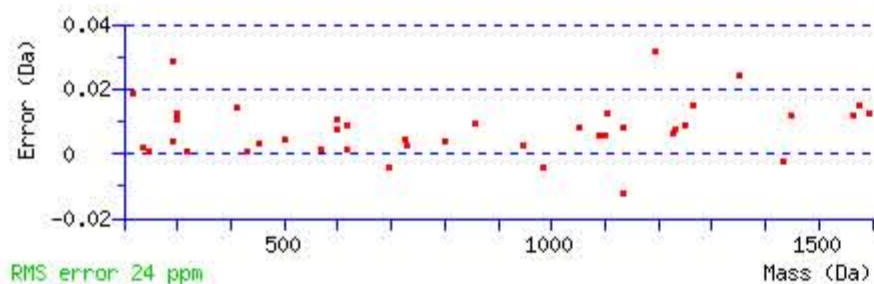
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 58 Expect: 1.2e-005

Matches : 41/230 fragment ions using 99 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	132.047761	66.527518					M							22
2	<b>245.131825</b>	123.069550					L	2568.156746	1284.582011	2551.130197	1276.068736	2550.146181	1275.576728	21
3	<b>316.168939</b>	158.588107					A	2455.072682	<b>1228.039979</b>	2438.046133	1219.526704	2437.062117	1219.034696	20
4	<b>431.195882</b>	216.101579			<b>413.185317</b>	207.096296	D	2384.035568	<b>1192.521422</b>	2367.009019	1184.008148	2366.025003	1183.516140	19
5	<b>502.232996</b>	251.620136			484.222431	242.614854	A	2269.008625	<b>1135.007950</b>	2251.982076	1126.494676	2250.998060	1126.002668	18
6	<b>599.285760</b>	<b>300.146518</b>			581.275195	<b>291.141236</b>	P	2197.971511	<b>1099.489394</b>	2180.944962	1090.976119	2179.960946	<b>1090.484111</b>	17
7	<b>696.338524</b>	348.672900			678.327959	339.667618	P	2100.918747	<b>1050.963012</b>	2083.892198	1042.449737	2082.908182	1041.957729	16
8	<b>1135.563850</b>	<b>568.285563</b>	1118.537301	559.772289	1117.553285	559.280281	Q	2003.865983	1002.436630	1986.839434	993.923355	1985.855418	993.431347	15
9	<b>1250.590793</b>	625.799035	1233.564244	<b>617.285760</b>	<b>1232.580228</b>	616.793752	D	<b>1564.640657</b>	782.823967	1547.614108	774.310692	1546.630092	773.818684	14
10	1347.643557	674.325417	1330.617008	665.812142	1329.632992	665.320134	P	<b>1449.613714</b>	<b>725.310495</b>	1432.587165	716.797221	<b>1431.603149</b>	716.305213	13
11	1434.675585	717.841431	1417.649036	709.328156	1416.665020	708.836148	S	<b>1352.560950</b>	676.784113	1335.534401	668.270839	1334.550385	667.778831	12
12	<b>1594.706234</b>	797.856755	1577.679685	789.343481	<b>1576.695669</b>	788.851473	C	<b>1265.528922</b>	633.268099	1248.502373	624.754825	1247.518357	624.262817	11
13	1754.736883	877.872080	1737.710334	869.358805	1736.726318	868.866797	C	<b>1105.498273</b>	553.252775	1088.471724	544.739500	1087.487708	544.247492	10
14	1841.768911	921.388094	1824.742362	912.874819	1823.758346	912.382811	S	<b>945.467624</b>	473.237450	928.441075	464.724176	927.457059	464.232168	9
15	1898.790375	949.898826	1881.763826	941.385551	1880.779810	940.893543	G	<b>858.435596</b>	429.721436	841.409047	421.208162	840.425031	420.716154	8
16	1969.827489	<b>985.417383</b>	1952.800940	976.904108	1951.816924	976.412100	A	<b>801.414132</b>	401.210704	784.387583	392.697430	783.403567	392.205422	7
17	2082.911553	1041.959415	2065.885004	1033.446140	2064.900988	1032.954132	L	<b>730.377018</b>	365.692147	713.350469	357.178873	712.366453	356.686865	6
18	2245.974882	1123.491079	2228.948333	1114.977805	2227.964317	1114.485797	Y	<b>617.292954</b>	309.150115	600.266405	300.636841	<b>599.282389</b>	<b>300.144833</b>	5
19	2409.038211	1205.022744	2392.011662	1196.509469	2391.027646	1196.017461	Y	<b>454.229625</b>	227.618451	437.203076	219.105176	436.219060	218.613168	4
20	2466.059675	1233.533476	2449.033126	1225.020201	2448.049110	1224.528193	G	<b>291.166296</b>	146.086786	274.139747	137.573512	273.155731	137.081504	3
21	2553.091703	1277.049490	2536.065154	1268.536215	2535.081138	1268.044207	S	<b>234.144832</b>	117.576054	<b>217.118283</b>	109.062780	216.134267	108.570772	2
22							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **MLADAPPQDPSCCSGALYYGSK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
57.6	2698.189941	0.006471	<b>MLADAPPQDPSCCSGALYYGSK</b>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **SILQMSLDHHIVTPLTSLVIENEAGDER**

Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 59131: 3443.751576 from(861.945170,4+) rtinseconds(2670) index(49816)

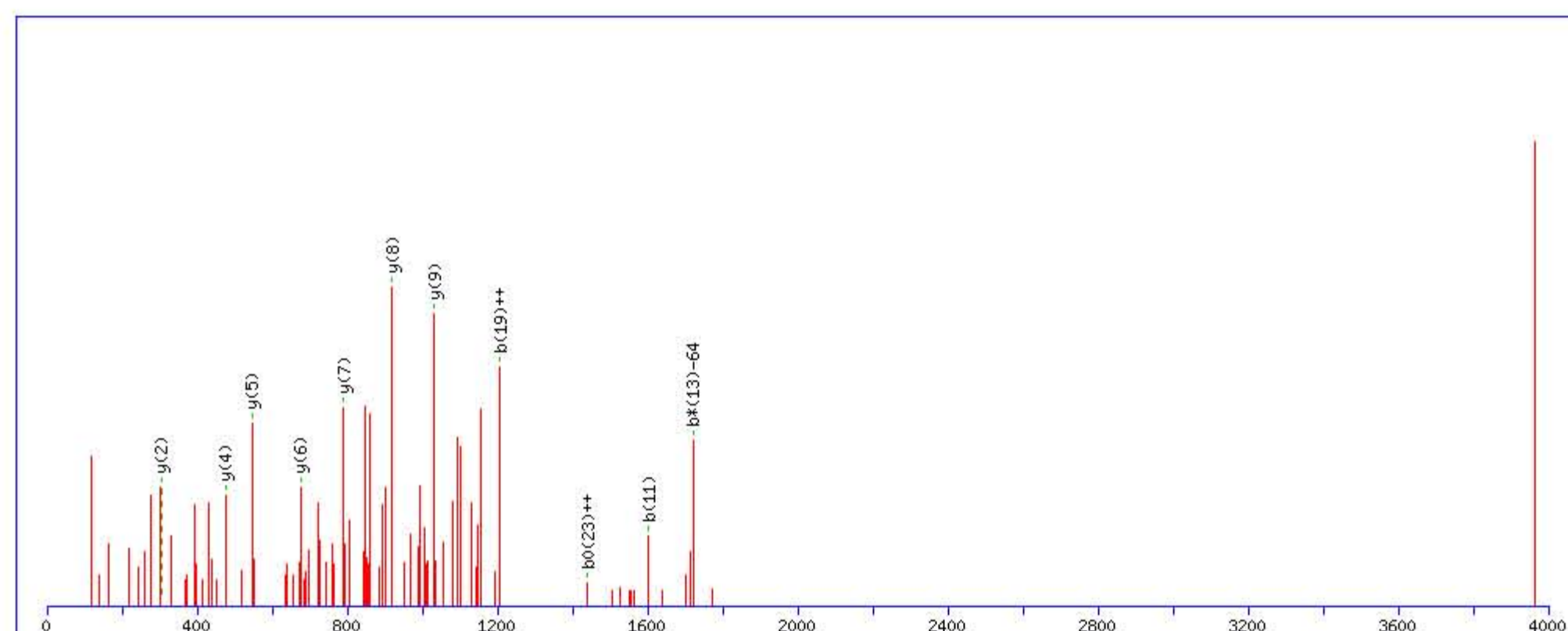
Title: Locus:1.1.1.3641.23 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 0 to 4000 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3443.742859

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

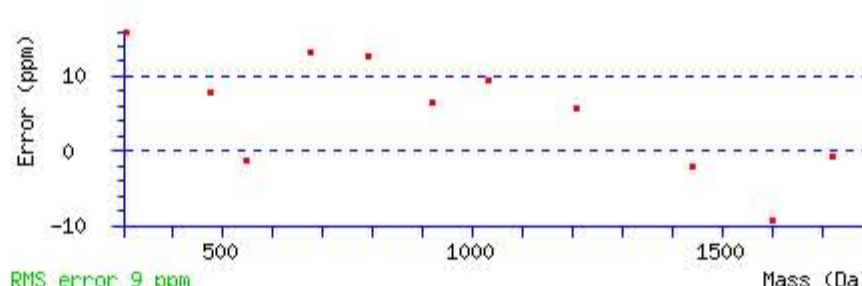
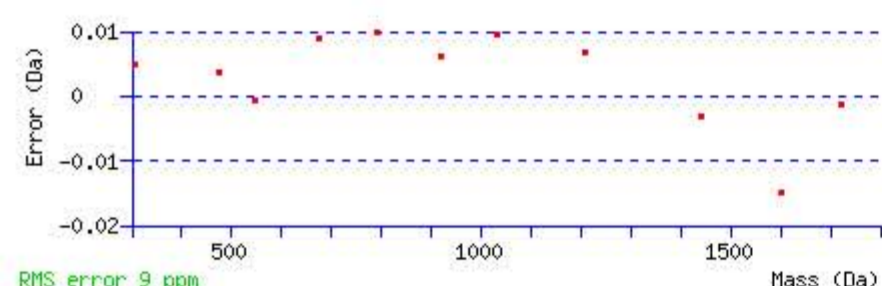
Q4 : Biotin:Thermo-21345 (Q)

M5 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285

Ions Score: 31 Expect: 0.02

Matches : 11/478 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							28
2	201.123368	101.065322			183.112803	92.060039	I	3357.718126	1679.362701	3340.691577	1670.849426	3339.707561	1670.357418	27
3	314.207432	157.607354			296.196867	148.602071	L	3244.634062	1622.820669	3227.607513	1614.307394	3226.623497	1613.815386	26
4	753.432758	377.220017	736.406209	368.706743	735.422193	368.214735	Q	3131.549998	1566.278637	3114.523449	1557.765362	3113.539433	1557.273354	25
5	900.468158	450.737717	883.441609	442.224443	882.457593	441.732435	M	2692.324672	1346.665974	2675.298123	1338.152699	2674.314107	1337.660691	24
6	987.500186	494.253731	970.473637	485.740456	969.489621	485.248448	S	2545.289272	1273.148274	2528.262723	1264.634999	2527.278707	1264.142991	23
7	1100.584250	550.795763	1083.557701	542.282489	1082.573685	541.790480	L	2458.257244	1229.632260	2441.230695	1221.118985	2440.246679	1220.626977	22
8	1215.611193	608.309235	1198.584644	599.795960	1197.600628	599.303952	D	2345.173180	1173.090228	2328.146631	1164.576953	2327.162615	1164.084945	21
9	1352.670105	676.838690	1335.643556	668.325416	1334.659540	667.833408	H	2230.146237	1115.576756	2213.119688	1107.063482	2212.135672	1106.571474	20
10	1489.729017	745.368146	1472.702468	736.854872	1471.718452	736.362864	H	2093.087325	1047.047300	2076.060776	1038.534026	2075.076760	1038.042018	19
11	<b>1602.813081</b>	801.910178	1585.786532	793.396904	1584.802516	792.904896	I	1956.028413	978.517845	1939.001864	970.004570	1938.017848	969.512562	18
12	1701.881495	851.444385	1684.854946	842.931111	1683.870930	842.439103	V	1842.944349	921.975813	1825.917800	913.462538	1824.933784	912.970530	17
13	1802.929174	901.968225	1785.902625	893.454951	1784.918609	892.962942	T	1743.875935	872.441606	1726.849386	863.928331	1725.865370	863.436323	16
14	1899.981938	950.494607	1882.955389	941.981333	1881.971373	941.489324	P	1642.828256	821.917766	1625.801707	813.404492	1624.817691	812.912484	15
15	2013.066002	1007.036639	1996.039453	998.523364	1995.055437	998.031356	L	1545.775492	773.391384	1528.748943	764.878110	1527.764927	764.386102	14
16	2114.113681	1057.560478	2097.087132	1049.047204	2096.103116	1048.555196	T	1432.691428	716.849352	1415.664879	708.336078	1414.680863	707.844070	13
17	2201.145709	1101.076492	2184.119160	1092.563218	2183.135144	1092.071210	S	1331.643749	666.325513	1314.617200	657.812238	1313.633184	657.320230	12
18	2314.229773	1157.618524	2297.203224	1149.105250	2296.219208	1148.613242	L	1244.611721	622.809499	1227.585172	614.296224	1226.601156	613.804216	11
19	2413.298187	<b>1207.152731</b>	2396.271638	1198.639457	2395.287622	1198.147449	V	1131.527657	566.267467	1114.501108	557.754192	1113.517092	557.262184	10
20	2526.382251	1263.694763	2509.355702	1255.181489	2508.371686	1254.689481	I	<b>1032.459243</b>	516.733260	1015.432694	508.219985	1014.448678	507.727977	9
21	2655.424844	1328.216060	2638.398295	1319.702785	2637.414279	1319.210777	E	<b>919.375179</b>	460.191228	902.348630	451.677953	901.364614	451.185945	8
22	2769.467771	1385.237523	2752.441222	1376.724249	2751.457206	1376.232241	N	<b>790.332586</b>	395.669931	773.306037	387.156657	772.322021	386.664649	7
23	2898.510364	1449.758820	2881.483815	1441.245545	2880.499799	1440.753537	E	<b>676.289659</b>	338.648468	659.263110	330.135193	658.279094	329.643185	6
24	2969.547478	1485.277377	2952.520929	1476.764102	2951.536913	1476.272094	A	<b>547.247066</b>	274.127171	530.220517	265.613897	529.236501	265.121889	5
25	3026.568942	1513.788109	3009.542393	1505.274834	3008.558377	1504.782826	G	<b>476.209952</b>	238.608614	459.183403	230.095339	458.199387	229.603331	4
26	3141.595885	1571.301580	3124.569336	1562.788306	3123.585320	1562.296298	D	419.188488	210.097882	402.161939	201.584607	401.177923	201.092599	3
27	3270.638478	1635.822877	3253.611929	1627.309602	3252.627913	1626.817594	E	<b>304.161545</b>	152.584411	287.134996	144.071136	286.150980	143.579128	2
28							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SILQMSLDHHIVTPLTSLVIENEAGDER**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
31.3	3443.742859	0.008717	<a href="#">SILQMSLDHHIVTPLTSLVIENEAGDER</a>

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

**Peptide View**

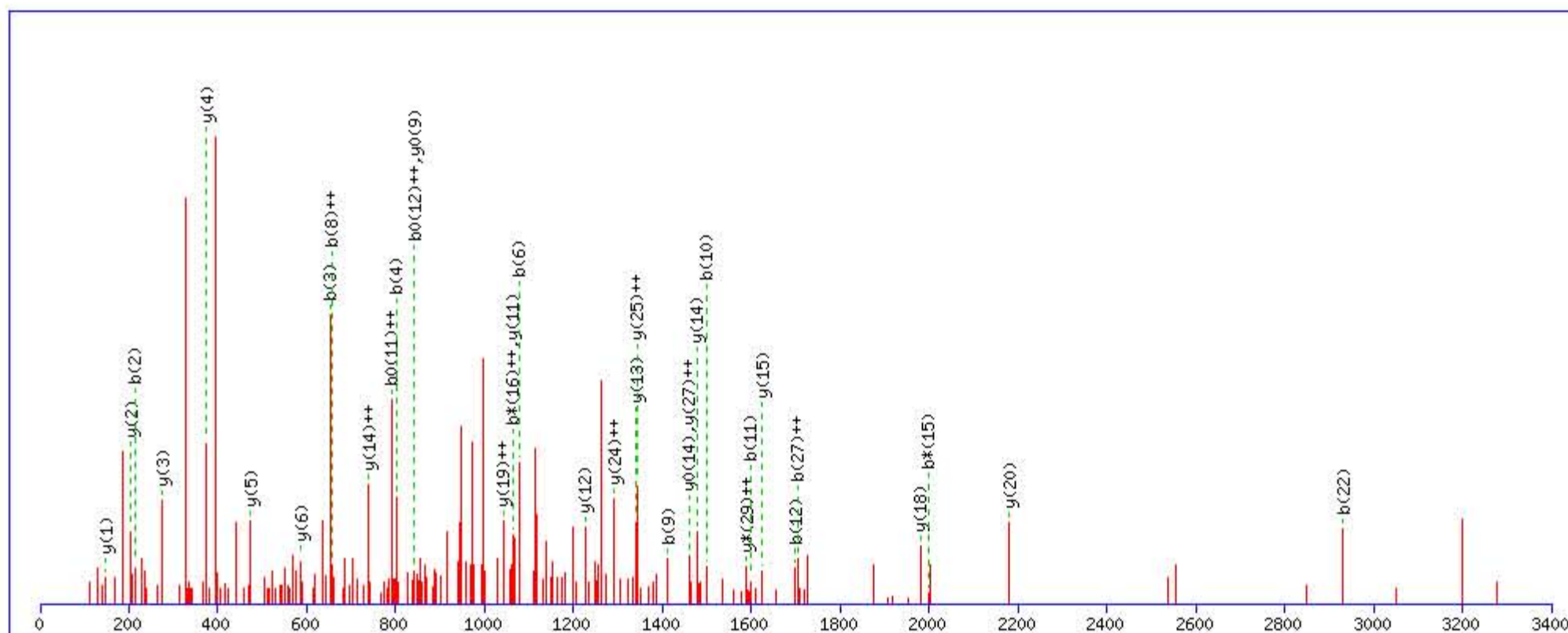
MS/MS Fragmentation of **NVQFNYPHTSVTDVTDVTQNNFHNHNYFGGSEIVVAGK**  
 Found in **ITIH2\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H2 OS=Homo sapiens GN=ITIH2 PE=1 SV=2

Match to Query 62282: 3993.921936 from(999.487760,4+) rtinseconds(2410) index(48416)  
 Title: Locus:1.1.1.3551.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

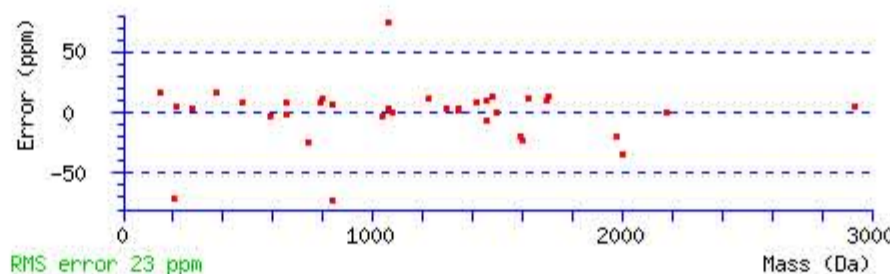
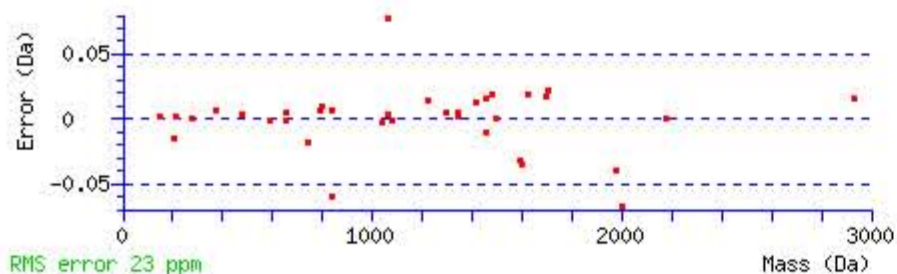
Or, Plot from 0 to 3400 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3993.910858  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q3 : Biotin:Thermo-21345 (Q)  
 Ions Score: 42 Expect: 0.0013  
 Matches : 36/356 fragment ions using 100 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							33
2	<b>214.118617</b>	107.562947	197.092068	99.049672			V	3880.875173	1940.941224	3863.848624	1932.427950	3862.864608	1931.935942	32
3	<b>653.343943</b>	327.175610	636.317394	318.662335			Q	3781.806759	1891.407017	3764.780210	1882.893743	3763.796194	1882.401735	31
4	<b>800.412357</b>	400.709817	783.385808	392.196542			F	3342.581433	1671.794354	3325.554884	1663.281080	3324.570868	1662.789072	30
5	914.455284	457.731280	897.428735	449.218006			N	3195.513019	1598.260147	3178.486470	<b>1589.746873</b>	3177.502454	1589.254865	29
6	<b>1077.518613</b>	539.262945	1060.492064	530.749670			Y	3081.470092	1541.238684	3064.443543	1532.725409	3063.459527	1532.233401	28
7	1174.571377	587.789327	1157.544828	579.276052			P	2918.406763	<b>1459.707019</b>	2901.380214	1451.193745	2900.396198	1450.701737	27
8	1311.630289	<b>656.318783</b>	1294.603740	647.805508			H	2821.353999	1411.180637	2804.327450	1402.667363	2803.343434	1402.175355	26
9	<b>1412.677968</b>	706.842622	1395.651419	698.329348	1394.667403	697.837339	T	2684.295087	<b>1342.651181</b>	2667.268538	1334.137907	2666.284522	1333.645899	25
10	<b>1499.709996</b>	750.358636	1482.683447	741.845362	1481.699431	741.353354	S	2583.247408	<b>1292.127342</b>	2566.220859	1283.614067	2565.236843	1283.122059	24
11	<b>1598.778410</b>	799.892843	1581.751861	791.379569	1580.767845	<b>790.887561</b>	V	2496.215380	1248.611328	2479.188831	1240.098053	2478.204815	1239.606045	23
12	<b>1699.826089</b>	850.416683	1682.799540	841.903408	1681.815524	<b>841.411400</b>	T	2397.146966	1199.077121	2380.120417	1190.563846	2379.136401	1190.071838	22
13	1814.853032	907.930154	1797.826483	899.416880	1796.842467	898.924872	D	2296.099287	1148.553281	2279.072738	1140.040007	2278.088722	1139.547999	21
14	1913.921446	957.464361	1896.894897	948.951087	1895.910881	948.459079	V	<b>2181.072344</b>	1091.039810	2164.045795	1082.526535	2163.061779	1082.034527	20
15	2014.969125	1007.988201	<b>1997.942576</b>	999.474926	1996.958560	998.982918	T	2082.003930	<b>1041.505603</b>	2064.977381	1032.992328	2063.993365	1032.500320	19
16	2143.027703	1072.017490	2126.001154	<b>1063.504215</b>	2125.017138	1063.012207	Q	<b>1980.956251</b>	990.981763	1963.929702	982.468489	1962.945686	981.976481	18
17	2257.070630	1129.038953	2240.044081	1120.525678	2239.060065	1120.033671	N	1852.897673	926.952474	1835.871124	918.439200	1834.887108	917.947192	17
18	2371.113557	1186.060417	2354.087008	1177.547142	2353.102992	1177.055134	N	1738.854746	869.931011	1721.828197	861.417736	1720.844181	860.925728	16
19	2518.181971	1259.594623	2501.155422	1251.081349	2500.171406	1250.589341	F	<b>1624.811819</b>	812.909547	1607.785270	804.396273	1606.801254	803.904265	15
20	2655.240883	1328.124079	2638.214334	1319.610805	2637.230318	1319.118797	H	<b>1477.743405</b>	<b>739.375340</b>	1460.716856	730.862066	<b>1459.732840</b>	730.370058	14
21	2769.283810	1385.145543	2752.257261	1376.632268	2751.273245	1376.140260	N	<b>1340.684493</b>	670.845885	1323.657944	662.332610	1322.673928	661.840602	13
22	<b>2932.347139</b>	1466.677207	2915.320590	1458.163933	2914.336574	1457.671925	Y	<b>1226.641566</b>	613.824421	1209.615017	605.311147	1208.631001	604.819139	12
23	3079.415553	1540.211414	3062.389004	1531.698140	3061.404988	1531.206132	F	<b>1063.578237</b>	532.292757	1046.551688	523.779482	1045.567672	523.287474	11
24	3136.437017	1568.722146	3119.410468	1560.208872	3118.426452	1559.716864	G	916.509823	458.758550	899.483274	450.245275	898.499258	449.753267	10
25	3193.458481	1597.232878	3176.431932	1588.719604	3175.447916	1588.227596	G	859.488359	430.247818	842.461810	421.734543	<b>841.477794</b>	421.242535	9
26	3280.490509	1640.748892	3263.463960	1632.235618	3262.479944	1631.743610	S	802.466895	401.737086	785.440346	393.223811	784.456330	392.731803	8
27	3409.533102	<b>1705.270189</b>	3392.506553	1696.756914	3391.522537	1696.264906	E	715.434867	358.221072	698.408318	349.707797	697.424302	349.215789	7
28	3522.617166	1761.812221	3505.590617	1753.298946	3504.606601	1752.806938	I	<b>586.392274</b>	293.699775	569.365725	285.186501			6
29	3621.685580	1811.346428	3604.659031	1802.833153	3603.675015	1802.341145	V	<b>473.308210</b>	237.157743	456.281661	228.644468			5
30	3720.753994	1860.880635	3703.727445	1852.367360	3702.743429	1851.875352	V	<b>374.239796</b>	187.623536	357.213247	179.110261			4
31	3791.791108	1896.399192	3774.764559	1887.885917	3773.780543	1887.393909	A	<b>275.171382</b>	138.089329	258.144833	129.576055			3
32	3848.812572	1924.909924	3831.786023	1916.396649	3830.802007	1915.904641	G	<b>204.134268</b>	102.570772	187.107719	94.057497			2
33							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **NVQFNYPHTSVTDVTDVTQNNFHNHNYFGGSEIVVAGK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
42.2	3993.910858	0.011078	<a href="#">NVQFNYPHTSVTDVTDVTQNNFHNHNYFGGSEIVVAGK</a>
2.6	3993.910858	0.011078	<a href="#">NVQFNYPHTSVTDVTDVTQNNFHNHNYFGGSEIVVAGK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GHVSFKPSLDQQR**

Found in **ITIH3\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H3 OS=Homo sapiens GN=ITIH3 PE=1 SV=2

Match to Query 35900: 1808.928656 from(453.239440,4+) rtinseconds(1626) index(43698)

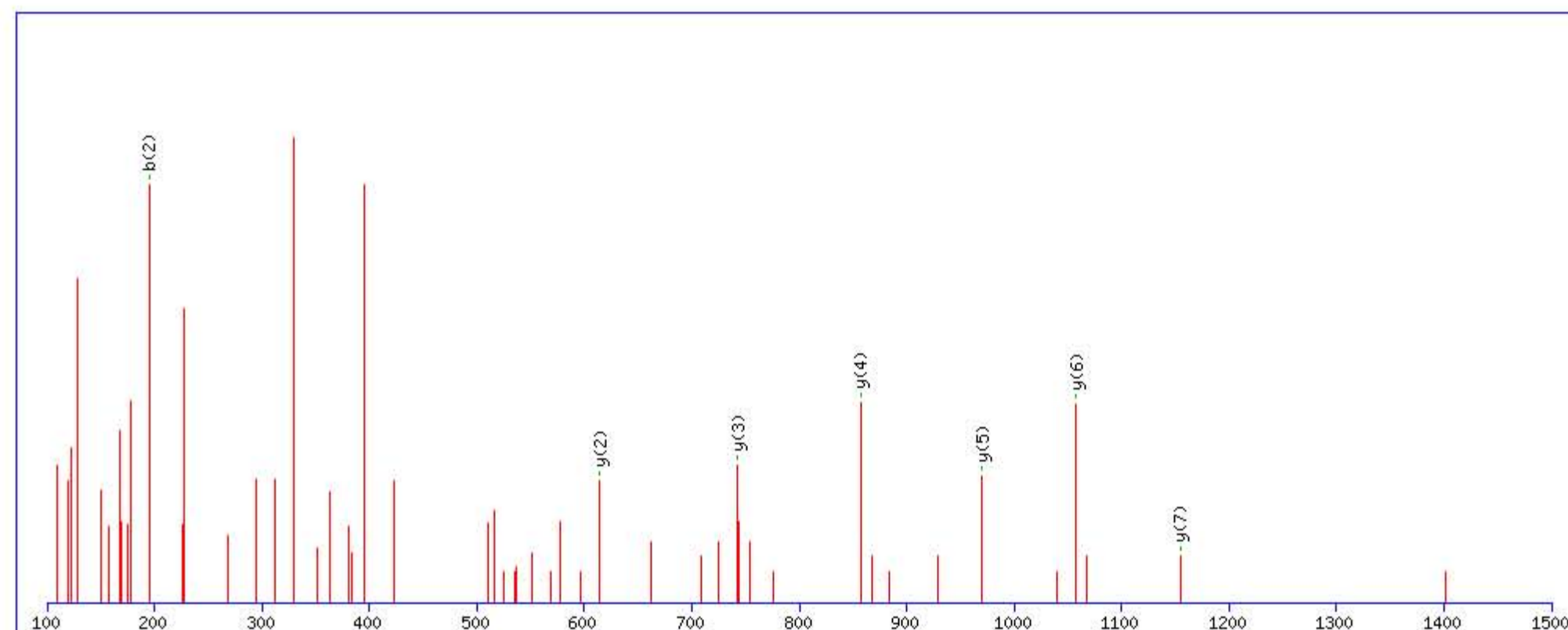
Title: Locus:1.1.1.3279.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1808.935577

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

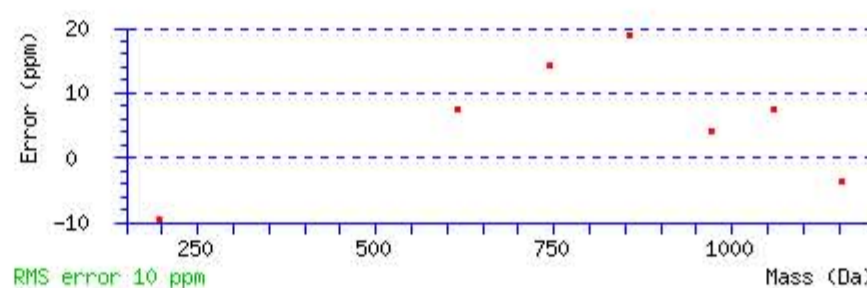
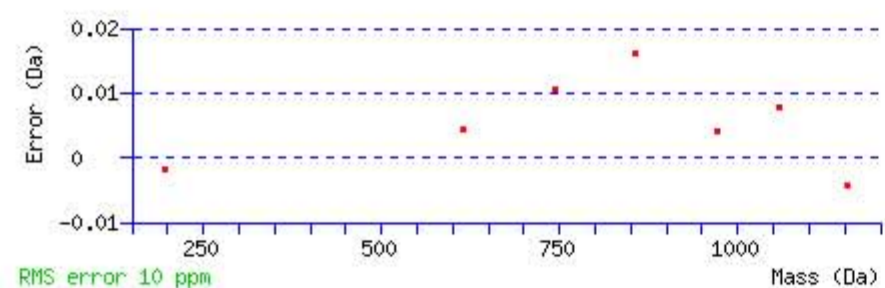
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.012

Matches : 7/122 fragment ions using 12 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							13
2	<b>195.087652</b>	98.047464					H	1752.921386	876.964331	1735.894837	868.451057	1734.910821	867.959049	12
3	294.156066	147.581671					V	1615.862474	808.434875	1598.835925	799.921601	1597.851909	799.429593	11
4	381.188094	191.097685			363.177529	182.092403	S	1516.794060	758.900668	1499.767511	750.387394	1498.783495	749.895386	10
5	528.256508	264.631892			510.245943	255.626610	F	1429.762032	715.384654	1412.735483	706.871380	1411.751467	706.379372	9
6	656.351471	328.679374	639.324922	320.166099	638.340906	319.674091	K	1282.693618	641.850447	1265.667069	633.337173	1264.683053	632.845165	8
7	753.404235	377.205756	736.377686	368.692481	735.393670	368.200473	P	<b>1154.598655</b>	577.802966	1137.572106	569.289691	1136.588090	568.797683	7
8	840.436263	420.721770	823.409714	412.208495	822.425698	411.716487	S	<b>1057.545891</b>	529.276584	1040.519342	520.763309	1039.535326	520.271301	6
9	953.520327	477.263802	936.493778	468.750527	935.509762	468.258519	L	<b>970.513863</b>	485.760570	953.487314	477.247295	952.503298	476.755287	5
10	1068.547270	534.777273	1051.520721	526.263999	1050.536705	525.771991	D	<b>857.429799</b>	429.218538	840.403250	420.705263	839.419234	420.213255	4
11	1196.605848	598.806562	1179.579299	590.293288	1178.595283	589.801279	Q	<b>742.402856</b>	371.705066	725.376307	363.191792			3
12	1635.831174	818.419225	1618.804625	809.905951	1617.820609	809.413943	Q	<b>614.344278</b>	307.675777	597.317729	299.162503			2
13							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GHVSFKPSLDQQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
33.3	1808.935577	-0.006921	<a href="#">GHVSFKPSLDQQR</a>
21.5	1808.935577	-0.006921	<a href="#">GHVSFKPSLDQQR</a>

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



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **KGHVSFKPSLDQQR**

Found in **ITIH3\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H3 OS=Homo sapiens GN=ITIH3 PE=1 SV=2

Match to Query 38130: 1937.024456 from(485.263390,4+) rtinseconds(1525) index(43047)

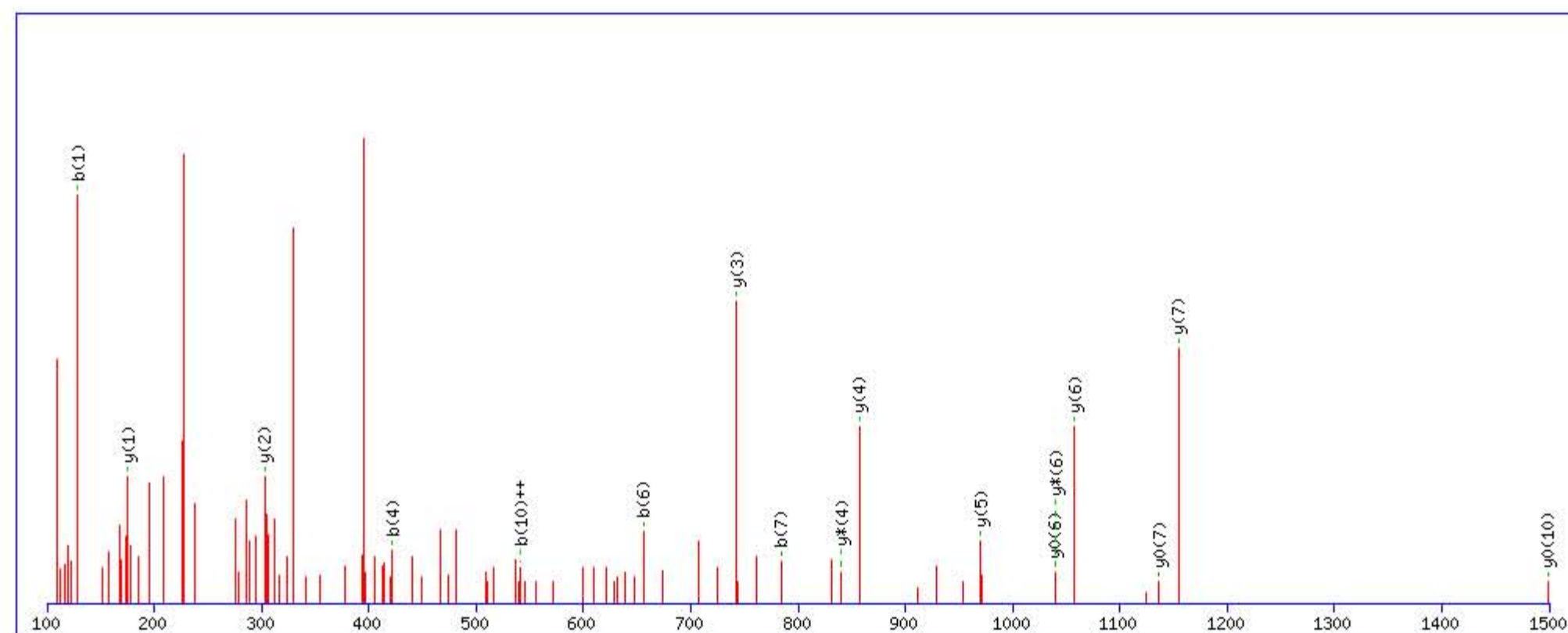
Title: Locus:1.1.1.3244.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1937.030533

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

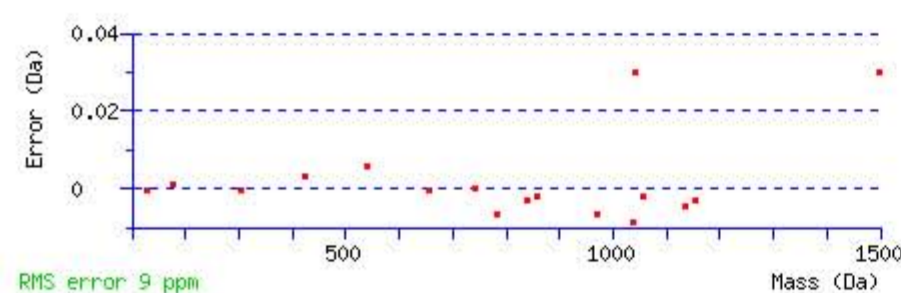
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

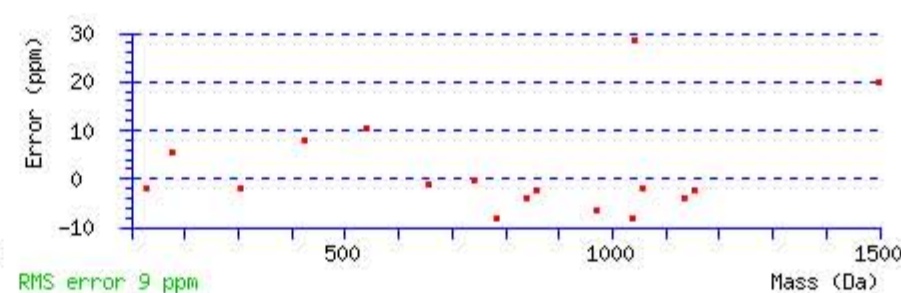
Ions Score: 32 Expect: 0.0032

Matches : 17/142 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>129.102239</b>	65.054757	112.075690	56.541483			<b>K</b>							14
2	186.123703	93.565489	169.097154	85.052215			<b>G</b>	1809.942850	905.475063	1792.916301	896.961789	1791.932285	896.469781	13
3	323.182615	162.094945	306.156066	153.581671			<b>H</b>	1752.921386	876.964331	1735.894837	868.451057	1734.910821	867.959049	12
4	<b>422.251029</b>	211.629153	405.224480	203.115878			<b>V</b>	1615.862474	808.434875	1598.835925	799.921601	1597.851909	799.429593	11
5	509.283057	255.145167	492.256508	246.631892	491.272492	246.139884	<b>S</b>	1516.794060	758.900668	1499.767511	750.387394	<b>1498.783495</b>	749.895386	10
6	<b>656.351471</b>	328.679374	639.324922	320.166099	638.340906	319.674091	<b>F</b>	1429.762032	715.384654	1412.735483	706.871380	1411.751467	706.379372	9
7	<b>784.446434</b>	392.726855	767.419885	384.213581	766.435869	383.721573	<b>K</b>	1282.693618	641.850447	1265.667069	633.337173	1264.683053	632.845165	8
8	881.499198	441.253237	864.472649	432.739963	863.488633	432.247955	<b>P</b>	<b>1154.598655</b>	577.802966	1137.572106	569.289691	<b>1136.588090</b>	568.797683	7
9	968.531226	484.769251	951.504677	476.255977	950.520661	475.763969	<b>S</b>	<b>1057.545891</b>	529.276584	<b>1040.519342</b>	520.763309	<b>1039.535326</b>	520.271301	6
10	1081.615290	<b>541.311283</b>	1064.588741	532.798009	1063.604725	532.306000	<b>L</b>	<b>970.513863</b>	485.760570	953.487314	477.247295	952.503298	476.755287	5
11	1196.642233	598.824755	1179.615684	590.311480	1178.631668	589.819472	<b>D</b>	<b>857.429799</b>	429.218538	<b>840.403250</b>	420.705263	839.419234	420.213255	4
12	1635.867559	818.437418	1618.841010	809.924143	1617.856994	809.432135	<b>Q</b>	<b>742.402856</b>	371.705066	725.376307	363.191792			3
13	1763.926137	882.466707	1746.899588	873.953432	1745.915572	873.461424	<b>Q</b>	<b>303.177530</b>	152.092403	286.150981	143.579129			2
14							<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839			1



RMS error 9 ppm



RMS error 9 ppm

NCBI BLAST search of **KGHVSFKPSLDQQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
31.7	1937.030533	-0.006077	<a href="#">KGHVSFKPSLDQQR</a>
26.8	1937.030533	-0.006077	<a href="#">KGHVSFKPSLDQQR</a>
4.9	1937.051620	-0.027164	<a href="#">QPLEREQCLALLALGAR</a>
0.8	1937.008057	0.016399	<a href="#">QSKETPVGWQELPK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EHLVQATPENLQEAR**

Found in **ITIH3\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H3 OS=Homo sapiens GN=ITIH3 PE=1 SV=2

Match to Query 40718: 2045.035182 from(682.685670,3+) rtinseconds(1784) index(44651)

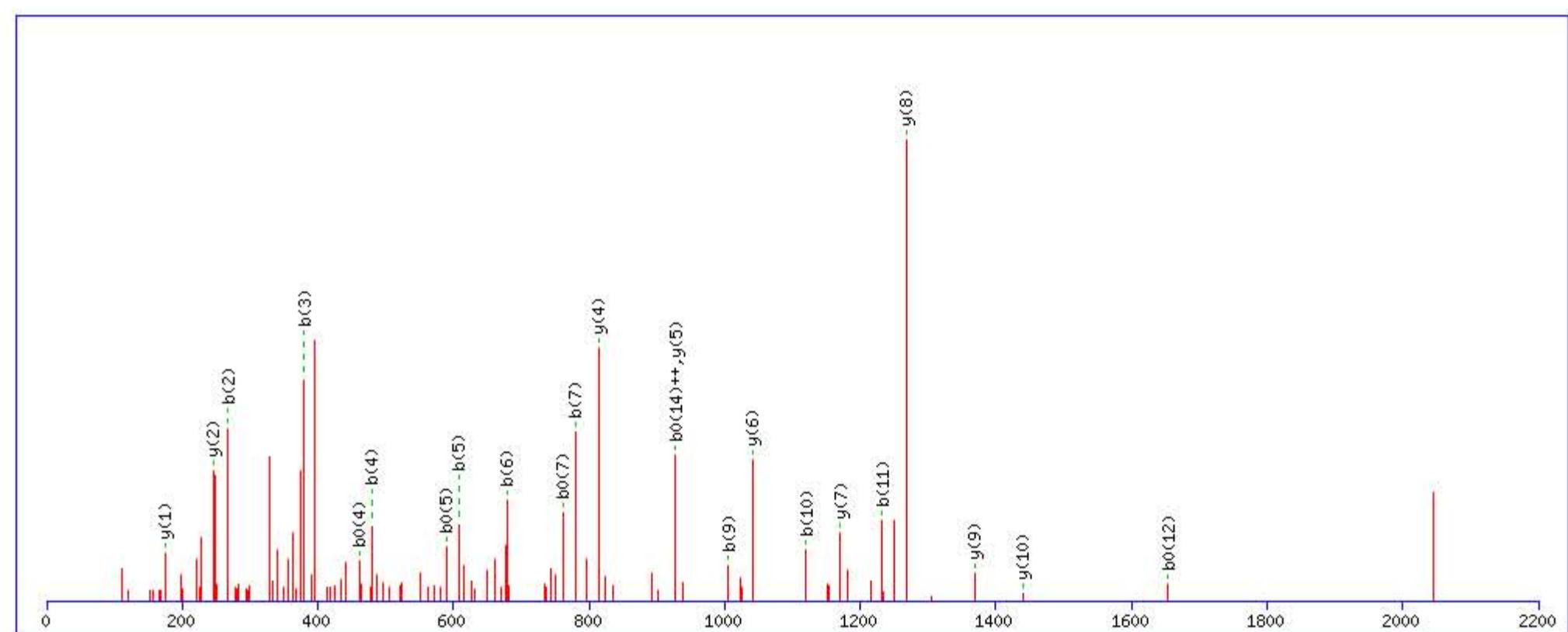
Title: Locus:1.1.1.3334.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 0 to 2200 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2045.036377

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

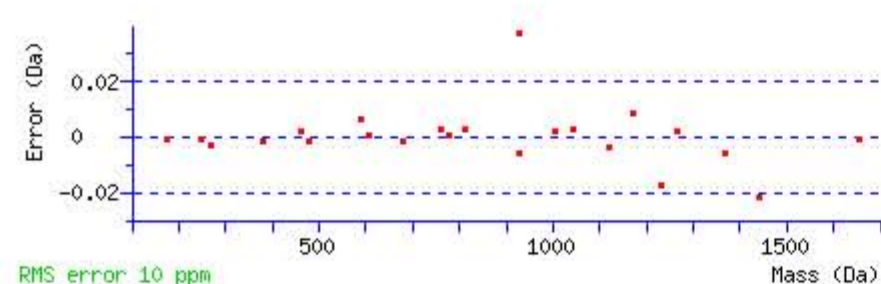
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

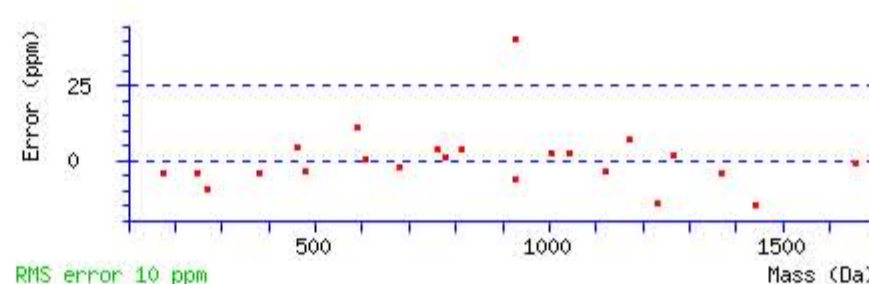
Ions Score: 84 Expect: 3.2e-008

Matches : 23/156 fragment ions using 28 most intense peaks (help)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							15
2	<b>267.108781</b>	134.058028			249.098216	125.052746	H	1917.001094	959.004185	1899.974545	950.490911	1898.990529	949.998903	14
3	<b>380.192845</b>	190.600060			362.182280	181.594778	L	1779.942182	890.474729	1762.915633	881.961455	1761.931617	881.469447	13
4	<b>479.261259</b>	240.134267			<b>461.250694</b>	231.128985	V	1666.858118	833.932697	1649.831569	825.419423	1648.847553	824.927415	12
5	<b>607.319837</b>	304.163557	590.293288	295.650282	<b>589.309272</b>	295.158274	Q	1567.789704	784.398490	1550.763155	775.885216	1549.779139	775.393208	11
6	<b>678.356951</b>	339.682114	661.330402	331.168839	660.346386	330.676831	A	<b>1439.731126</b>	720.369201	1422.704577	711.855927	1421.720561	711.363919	10
7	<b>779.404630</b>	390.205953	762.378081	381.692679	<b>761.394065</b>	381.200671	T	<b>1368.694012</b>	684.850644	1351.667463	676.337370	1350.683447	675.845362	9
8	876.457394	438.732335	859.430845	430.219061	858.446829	429.727053	P	<b>1267.646333</b>	634.326805	1250.619784	625.813530	1249.635768	625.321522	8
9	<b>1005.499987</b>	503.253632	988.473438	494.740357	987.489422	494.248349	E	<b>1170.593569</b>	585.800423	1153.567020	577.287148	1152.583004	576.795140	7
10	<b>1119.542914</b>	560.275095	1102.516365	551.761821	1101.532349	551.269813	N	<b>1041.550976</b>	521.279126	1024.524427	512.765852	1023.540411	512.273844	6
11	<b>1232.626978</b>	616.817127	1215.600429	608.303853	1214.616413	607.811845	L	<b>927.508049</b>	464.257663	910.481500	455.744388	909.497484	455.252380	5
12	1671.852304	836.429790	1654.825755	827.916516	<b>1653.841739</b>	827.424508	Q	<b>814.423985</b>	407.715631	797.397436	399.202356	796.413420	398.710348	4
13	1800.894897	900.951087	1783.868348	892.437812	1782.884332	891.945804	E	375.198659	188.102968	358.172110	179.589693	357.188094	179.097685	3
14	1871.932011	936.469644	1854.905462	927.956369	1853.921446	<b>927.464361</b>	A	<b>246.156066</b>	123.581671	229.129517	115.068396			2
15							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



RMS error 10 ppm



RMS error 10 ppm

NCBI BLAST search of **EHLVQATPENLQEAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
84.2	2045.036377	-0.001195	<a href="#">EHLVQATPENLQEAR</a>
5.5	2045.036377	-0.001195	<a href="#">EHLVQATPENLQEAR</a>
4.0	2045.064941	-0.029759	<a href="#">ASFVSVGMVKSLTRSSMVK</a>
3.4	2045.035889	-0.000707	<a href="#">LNMEQLLSASMEK</a>
0.8	2045.014603	0.020579	<a href="#">GPRRMTVIIPGMSAENER</a>
0.6	2045.022446	0.012736	<a href="#">EHNENMLRNILPSHVAR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EKAEAQAQYSAAVAK**

Found in **ITIH4\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H4 OS=Homo sapiens GN=ITIH4 PE=1 SV=4

Match to Query 37130: 1874.947542 from(625.989790,3+) rtinseconds(1517) index(15964)

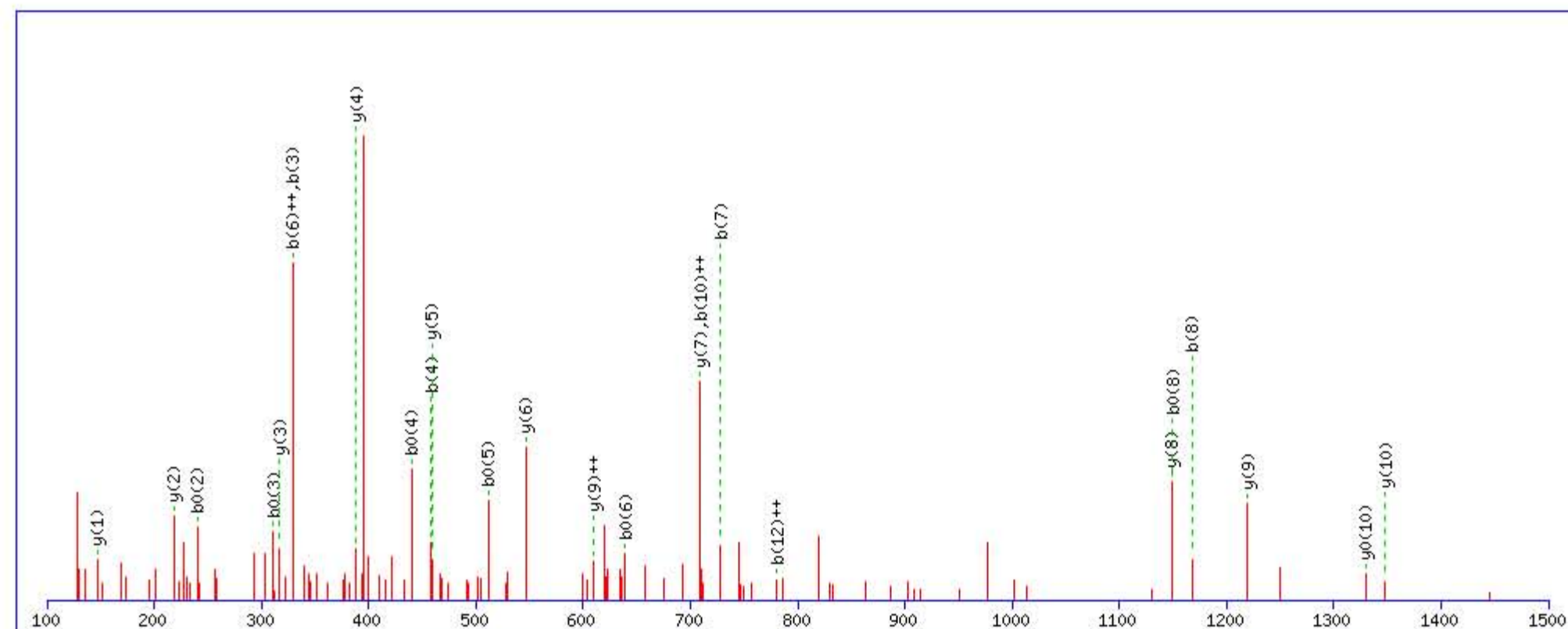
Title: Locus:1.1.1.3094.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1874.955978

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

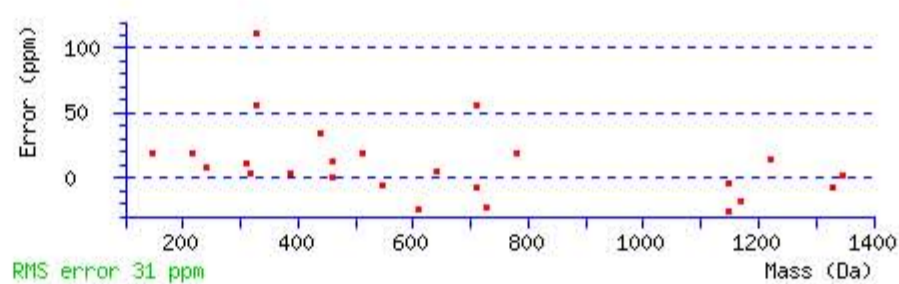
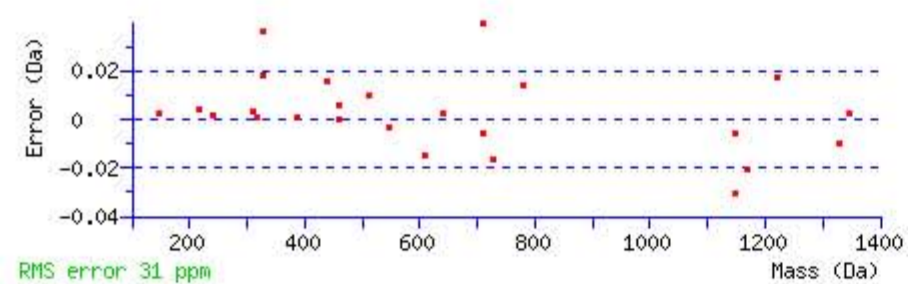
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 55 Expect: 8.4e-005

Matches : 25/156 fragment ions using 44 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							15
2	258.144832	129.576054	241.118283	121.062780	240.134267	120.570772	K	1746.920719	873.963998	1729.894170	865.450723	1728.910154	864.958715	14
3	329.181946	165.094611	312.155397	156.581336	311.171381	156.089328	A	1618.825756	809.916516	1601.799207	801.403242	1600.815191	800.911233	13
4	458.224539	229.615907	441.197990	221.102633	440.213974	220.610625	E	1547.788642	774.397959	1530.762093	765.884685	1529.778077	765.392677	12
5	529.261653	265.134465	512.235104	256.621190	511.251088	256.129182	A	1418.746049	709.876663	1401.719500	701.363388	1400.735484	700.871380	11
6	657.320231	329.163754	640.293682	320.650479	639.309666	320.158471	Q	1347.708935	674.358106	1330.682386	665.844831	1329.698370	665.352823	10
7	728.357345	364.682311	711.330796	356.169036	710.346780	355.677028	A	1219.650357	610.328817	1202.623808	601.815542	1201.639792	601.323534	9
8	1167.582671	584.294973	1150.556122	575.781699	1149.572106	575.289691	Q	1148.613243	574.810260	1131.586694	566.296985	1130.602678	565.804977	8
9	1330.646000	665.826638	1313.619451	657.313364	1312.635435	656.821355	Y	709.387917	355.197597	692.361368	346.684322	691.377352	346.192314	7
10	1417.678028	709.342652	1400.651479	700.829378	1399.667463	700.337370	S	546.324588	273.665932	529.298039	265.152658	528.314023	264.660650	6
11	1488.715142	744.861209	1471.688593	736.347935	1470.704577	735.855927	A	459.292560	230.149918	442.266011	221.636643			5
12	1559.752256	780.379766	1542.725707	771.866492	1541.741691	771.374484	A	388.255446	194.631361	371.228897	186.118087			4
13	1658.820670	829.913973	1641.794121	821.400699	1640.810105	820.908691	V	317.218332	159.112804	300.191783	150.599530			3
14	1729.857784	865.432530	1712.831235	856.919256	1711.847219	856.427248	A	218.149918	109.578597	201.123369	101.065322			2
15							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EKAEAQAQYSAAVAK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
55.1	1874.955978	-0.008436	<a href="#">EKAEAQAQYSAAVAK</a>
38.8	1874.955978	-0.008436	<a href="#">EKAEAQAQYSAAVAK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **EKAEAAQYSAAVAK**

Found in **ITIH4\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H4 OS=Homo sapiens GN=ITIH4 PE=1 SV=4

Match to Query 37131: 1874.966622 from(625.996150,3+) rtinseconds(1547) index(2323)

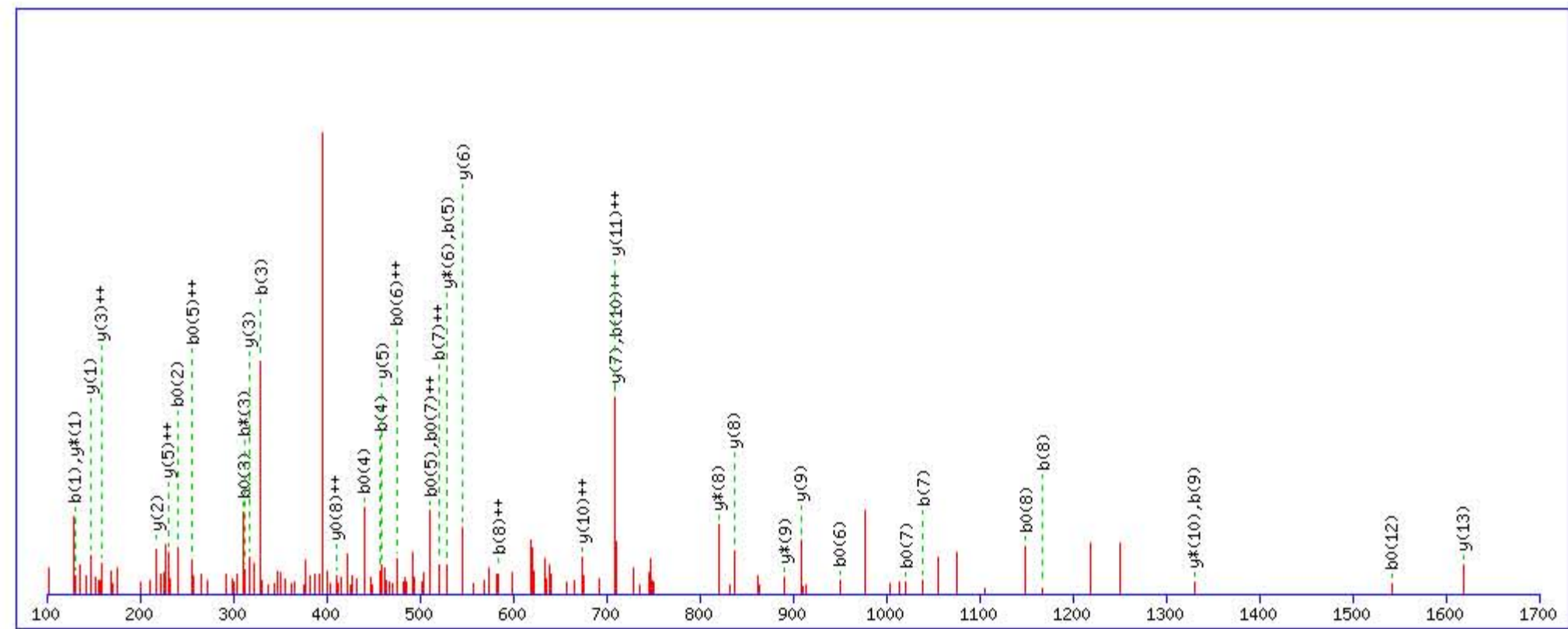
Title: Locus:1.1.1.3058.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1874.955978

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

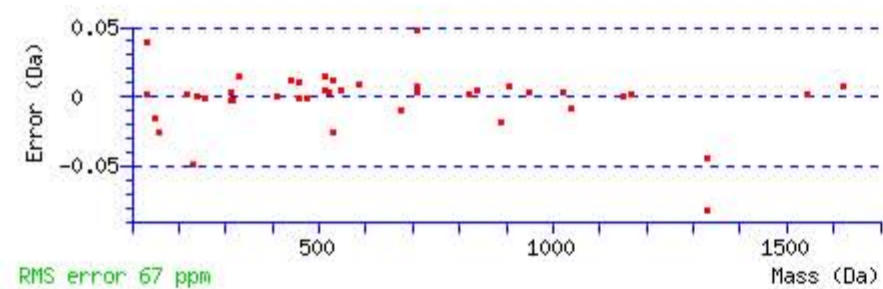
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

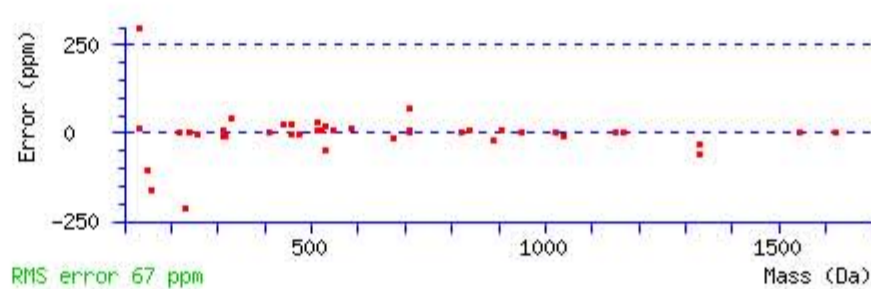
Ions Score: 43 Expect: 0.0013

Matches : 41/156 fragment ions using 82 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>130.049869</b>	65.528572			112.039304	56.523290	E							15
2	258.144832	129.576054	241.118283	121.062780	<b>240.134267</b>	120.570772	K	1746.920719	873.963998	1729.894170	865.450723	1728.910154	864.958715	14
3	<b>329.181946</b>	165.094611	<b>312.155397</b>	156.581336	<b>311.171381</b>	156.089328	A	<b>1618.825756</b>	809.916516	1601.799207	801.403242	1600.815191	800.911233	13
4	<b>458.224539</b>	229.615907	441.197990	221.102633	<b>440.213974</b>	220.610625	E	1547.788642	774.397959	1530.762093	765.884685	1529.778077	765.392677	12
5	<b>529.261653</b>	265.134465	512.235104	256.621190	<b>511.251088</b>	<b>256.129182</b>	A	1418.746049	<b>709.876663</b>	1401.719500	701.363388	1400.735484	700.871380	11
6	968.486979	484.747128	951.460430	476.233853	<b>950.476414</b>	<b>475.741845</b>	Q	1347.708935	<b>674.358106</b>	<b>1330.682386</b>	665.844831	1329.698370	665.352823	10
7	<b>1039.524093</b>	<b>520.265685</b>	1022.497544	511.752410	<b>1021.513528</b>	<b>511.260402</b>	A	<b>908.483609</b>	454.745443	<b>891.457060</b>	446.232168	890.473044	445.740160	9
8	<b>1167.582671</b>	<b>584.294973</b>	1150.556122	575.781699	<b>1149.572106</b>	575.289691	Q	<b>837.446495</b>	419.226886	<b>820.419946</b>	410.713611	819.435930	<b>410.221603</b>	8
9	<b>1330.646000</b>	665.826638	1313.619451	657.313364	1312.635435	656.821355	Y	<b>709.387917</b>	355.197597	692.361368	346.684322	691.377352	346.192314	7
10	1417.678028	<b>709.342652</b>	1400.651479	700.829378	1399.667463	700.337370	S	<b>546.324588</b>	273.665932	<b>529.298039</b>	265.152658	528.314023	264.660650	6
11	1488.715142	744.861209	1471.688593	736.347935	1470.704577	735.855927	A	<b>459.292560</b>	<b>230.149918</b>	442.266011	221.636643			5
12	1559.752256	780.379766	1542.725707	771.866492	<b>1541.741691</b>	771.374484	A	388.255446	194.631361	371.228897	186.118087			4
13	1658.820670	829.913973	1641.794121	821.400699	1640.810105	820.908691	V	<b>317.218332</b>	<b>159.112804</b>	300.191783	150.599530			3
14	1729.857784	865.432530	1712.831235	856.919256	1711.847219	856.427248	A	<b>218.149918</b>	109.578597	201.123369	101.065322			2
15							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



RMS error 67 ppm



RMS error 67 ppm

NCBI BLAST search of [EKAEAAQYSAAVAK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
43.0	1874.955978	0.010644	<a href="#">EKAEAAQYSAAVAK</a>
38.5	1874.955978	0.010644	<a href="#">EKAEAAQYSAAVAK</a>

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

# Mascot Search Results

## Peptide View

### MS/MS Fragmentation of **SPEQQETVLDGNLIIR**

Found in **ITIH4\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H4 OS=Homo sapiens GN=ITIH4 PE=1 SV=4

Match to Query 41897: 2122.128102 from(708.383310,3+) rtinseconds(2416) index(7144)

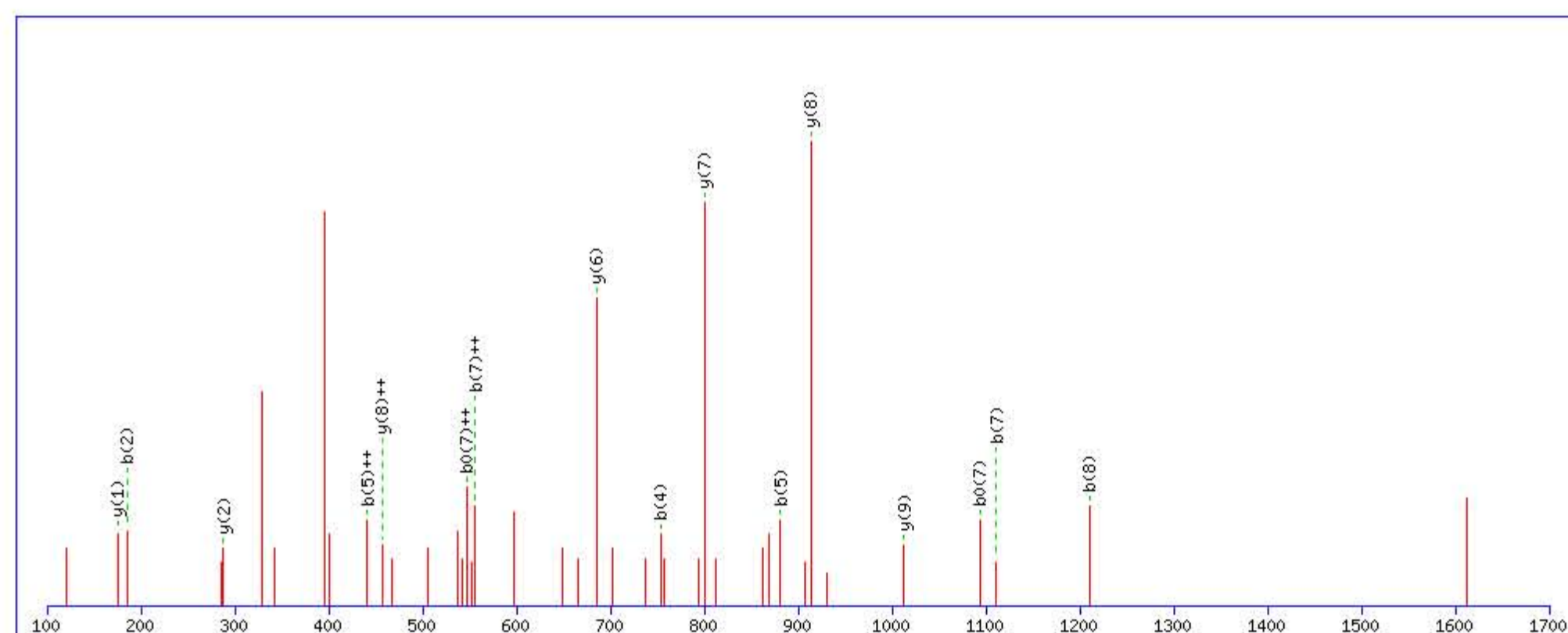
Title: Locus:1.1.1.3361.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2122.109222

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

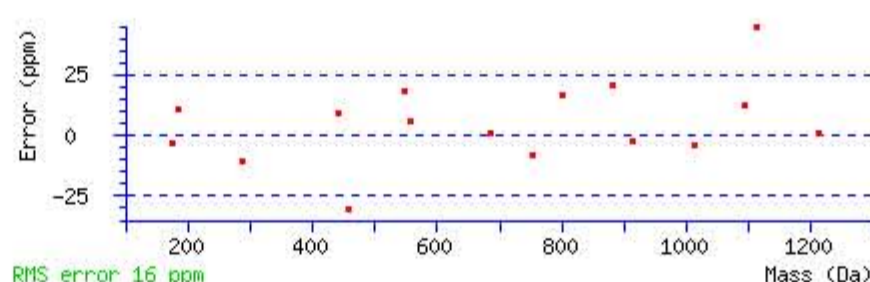
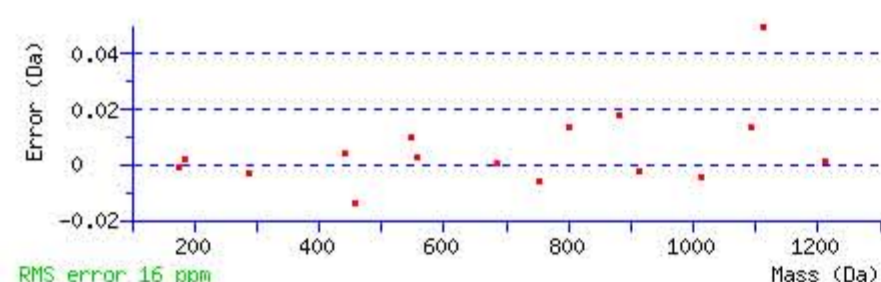
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 43 Expect: 0.00025

Matches : 16/162 fragment ions using 22 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							16
2	<b>185.092068</b>	93.049672			167.081503	84.044389	P	2036.084489	1018.545882	2019.057940	1010.032608	2018.073924	1009.540600	15
3	314.134661	157.570968			296.124096	148.565686	E	1939.031725	970.019500	1922.005176	961.506226	1921.021160	961.014218	14
4	<b>753.359987</b>	377.183632	736.333438	368.670357	735.349422	368.178349	Q	1809.989132	905.498204	1792.962583	896.984929	1791.978567	896.492921	13
5	<b>881.418565</b>	<b>441.212921</b>	864.392016	432.699646	863.408000	432.207638	Q	1370.763806	685.885541	1353.737257	677.372266	1352.753241	676.880258	12
6	1010.461158	505.734217	993.434609	497.220943	992.450593	496.728935	E	1242.705228	621.856252	1225.678679	613.342977	1224.694663	612.850969	11
7	<b>1111.508837</b>	<b>556.258057</b>	1094.482288	547.744782	<b>1093.498272</b>	<b>547.252774</b>	T	1113.662635	557.334955	1096.636086	548.821681	1095.652070	548.329673	10
8	<b>1210.577251</b>	605.792264	1193.550702	597.278989	1192.566686	596.786981	V	<b>1012.614956</b>	506.811116	995.588407	498.297841	994.604391	497.805833	9
9	1323.661315	662.334296	1306.634766	653.821021	1305.650750	653.329013	L	<b>913.546542</b>	<b>457.276909</b>	896.519993	448.763634	895.535977	448.271626	8
10	1438.688258	719.847767	1421.661709	711.334493	1420.677693	710.842485	D	<b>800.462478</b>	400.734877	783.435929	392.221602	782.451913	391.729594	7
11	1495.709722	748.358499	1478.683173	739.845225	1477.699157	739.353217	G	<b>685.435535</b>	343.221405	668.408986	334.708131			6
12	1609.752649	805.379963	1592.726100	796.866688	1591.742084	796.374680	N	628.414071	314.710673	611.387522	306.197399			5
13	1722.836713	861.921994	1705.810164	853.408720	1704.826148	852.916712	L	514.371144	257.689210	497.344595	249.175935			4
14	1835.920777	918.464026	1818.894228	909.950752	1817.910212	909.458744	I	401.287080	201.147178	384.260531	192.633903			3
15	1949.004841	975.006058	1931.978292	966.492784	1930.994276	966.000776	I	<b>288.203016</b>	144.605146	271.176467	136.091871			2
16							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



### NCBI BLAST search of **SPEQQETVLDGNLIIR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
43.3	2122.109222	0.018880	<a href="#">SPEQQETVLDGNLIIR</a>
34.9	2122.109222	0.018880	<a href="#">SPEQQETVLDGNLIIR</a>
4.6	2122.099350	0.028752	<a href="#">IDLAVGDVVKTWRFNMR</a>
4.2	2122.100189	0.027913	<a href="#">MIAPQRWIDAQR</a>
4.1	2122.139053	-0.010951	<a href="#">RRVYDALNVLAMNIISK</a>
4.1	2122.139053	-0.010951	<a href="#">RRVYDALNVLAMNIISK</a>
2.1	2122.135742	-0.007640	<a href="#">TQVSLTAVWIGAQQQR</a>
1.9	2122.120453	0.007649	<a href="#">TELLPGDRDNLAIQTR</a>
1.5	2122.149612	-0.021510	<a href="#">LPALRLMNATITEELFFK</a>
0.7	2122.100204	0.027898	<a href="#">QQGQCLLLWQAR</a>

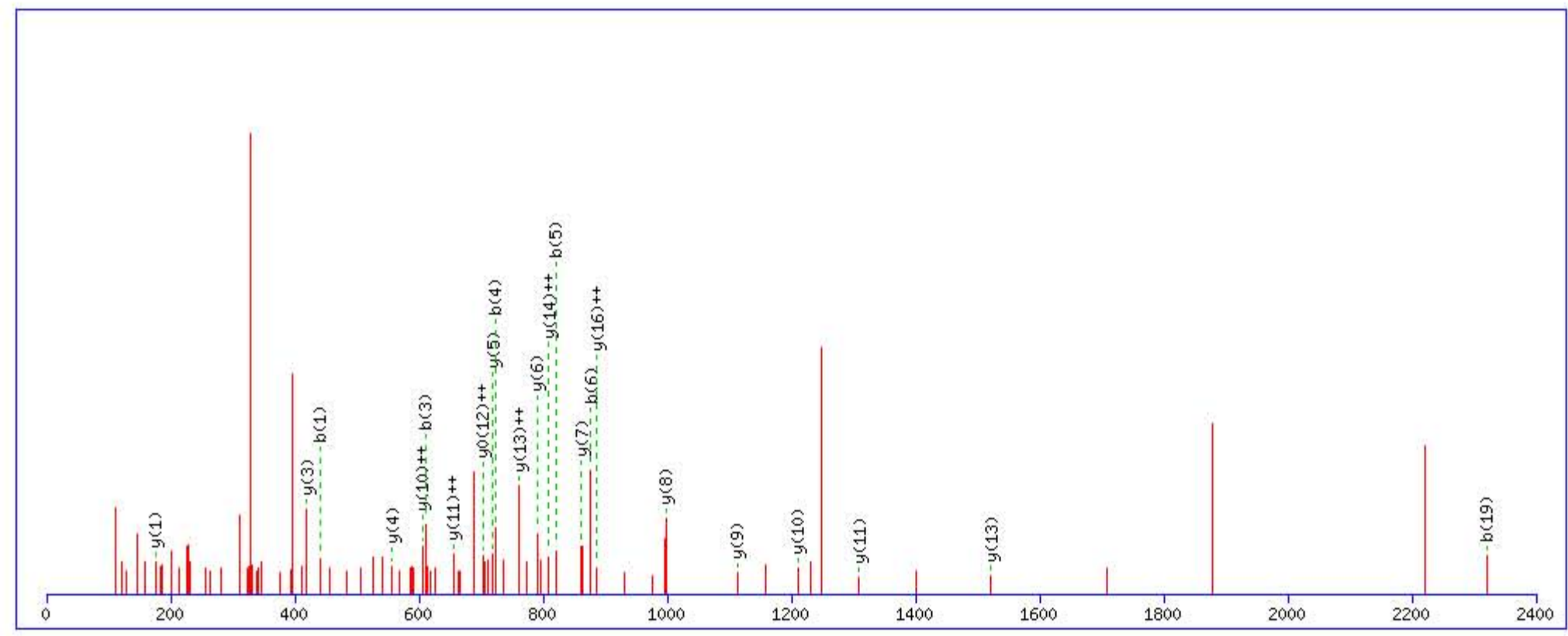
**Peptide View**

MS/MS Fragmentation of **QLGLPGPPDVPDHAAYHPFR**

Found in **ITIH4\_HUMAN**, Inter-alpha-trypsin inhibitor heavy chain H4 OS=Homo sapiens GN=ITIH4 PE=1 SV=4

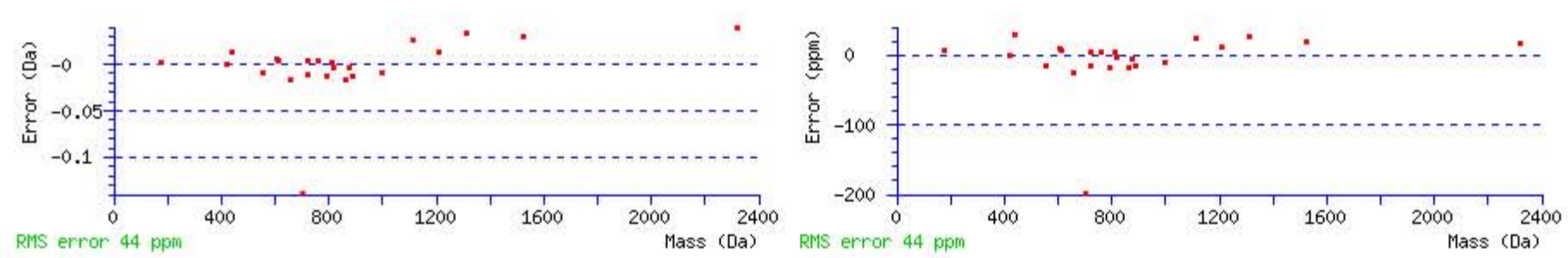
Match to Query 48392: 2494.244896 from(624.568500,4+) rtinseconds(2175) index(20073)  
 Title: Locus:1.1.1.3323.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2494.257980  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q1 : Biotin:Thermo-21345 (Q)  
 Ions Score: 50 Expect: 2.3e-005  
 Matches : 23/196 fragment ions using 58 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>440.232602</b>	220.619939	423.206053	212.106664			Q							20
2	553.316666	277.161971	536.290117	268.648697			L	2056.039923	1028.523599	2039.013374	1020.010325	2038.029358	1019.518317	19
3	<b>610.338130</b>	305.672703	593.311581	297.159429			G	1942.955859	971.981568	1925.929310	963.468293	1924.945294	962.976285	18
4	<b>723.422194</b>	362.214735	706.395645	353.701461			L	1885.934395	943.470836	1868.907846	934.957561	1867.923830	934.465553	17
5	<b>820.474958</b>	410.741117	803.448409	402.227843			P	1772.850331	<b>886.928804</b>	1755.823782	878.415529	1754.839766	877.923521	16
6	<b>877.496422</b>	439.251849	860.469873	430.738575			G	1675.797567	838.402422	1658.771018	829.889147	1657.787002	829.397139	15
7	974.549186	487.778231	957.522637	479.264957			P	1618.776103	<b>809.891690</b>	1601.749554	801.378415	1600.765538	800.886407	14
8	1071.601950	536.304613	1054.575401	527.791339			P	<b>1521.723339</b>	<b>761.365308</b>	1504.696790	752.852033	1503.712774	752.360025	13
9	1186.628893	593.818085	1169.602344	585.304810	1168.618328	584.812802	D	1424.670575	712.838926	1407.644026	704.325651	1406.660010	<b>703.833643</b>	12
10	1285.697307	643.352292	1268.670758	634.839017	1267.686742	634.347009	V	<b>1309.643632</b>	<b>655.325454</b>	1292.617083	646.812180	1291.633067	646.320172	11
11	1382.750071	691.878674	1365.723522	683.365399	1364.739506	682.873391	P	<b>1210.575218</b>	<b>605.791247</b>	1193.548669	597.277973	1192.564653	596.785964	10
12	1497.777014	749.392145	1480.750465	740.878871	1479.766449	740.386863	D	<b>1113.522454</b>	557.264865	1096.495905	548.751591	1095.511889	548.259582	9
13	1634.835926	817.921601	1617.809377	809.408327	1616.825361	808.916319	H	<b>998.495511</b>	499.751393	981.468962	491.238119			8
14	1705.873040	853.440158	1688.846491	844.926884	1687.862475	844.434876	A	<b>861.436599</b>	431.221937	844.410050	422.708663			7
15	1776.910154	888.958715	1759.883605	880.445441	1758.899589	879.953433	A	<b>790.399485</b>	395.703380	773.372936	387.190106			6
16	1939.973483	970.490380	1922.946934	961.977105	1921.962918	961.485097	Y	<b>719.362371</b>	360.184823	702.335822	351.671549			5
17	2077.032395	1039.019836	2060.005846	1030.506561	2059.021830	1030.014553	H	<b>556.299042</b>	278.653159	539.272493	270.139884			4
18	2174.085159	1087.546218	2157.058610	1079.032943	2156.074594	1078.540935	P	<b>419.240130</b>	210.123703	402.213581	201.610428			3
19	<b>2321.153573</b>	1161.080424	2304.127024	1152.567150	2303.143008	1152.075142	F	322.187366	161.597321	305.160817	153.084046			2
20							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **QLGLPGPPDVPDHAAYHPFR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
49.9	2494.257980	-0.013084	<a href="#">QLGLPGPPDVPDHAAYHPFR</a>
0.6	2494.270370	-0.025474	<a href="#">LLEVSDDPQVLAVAHDVGEYVR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QVILTLQPTLVAVGK**

Found in **ICAM2\_HUMAN**, Intercellular adhesion molecule 2 OS=Homo sapiens GN=ICAM2 PE=1 SV=2

Match to Query 37285: 1890.157448 from(946.086000,2+) rtinseconds(2684) index(8620)

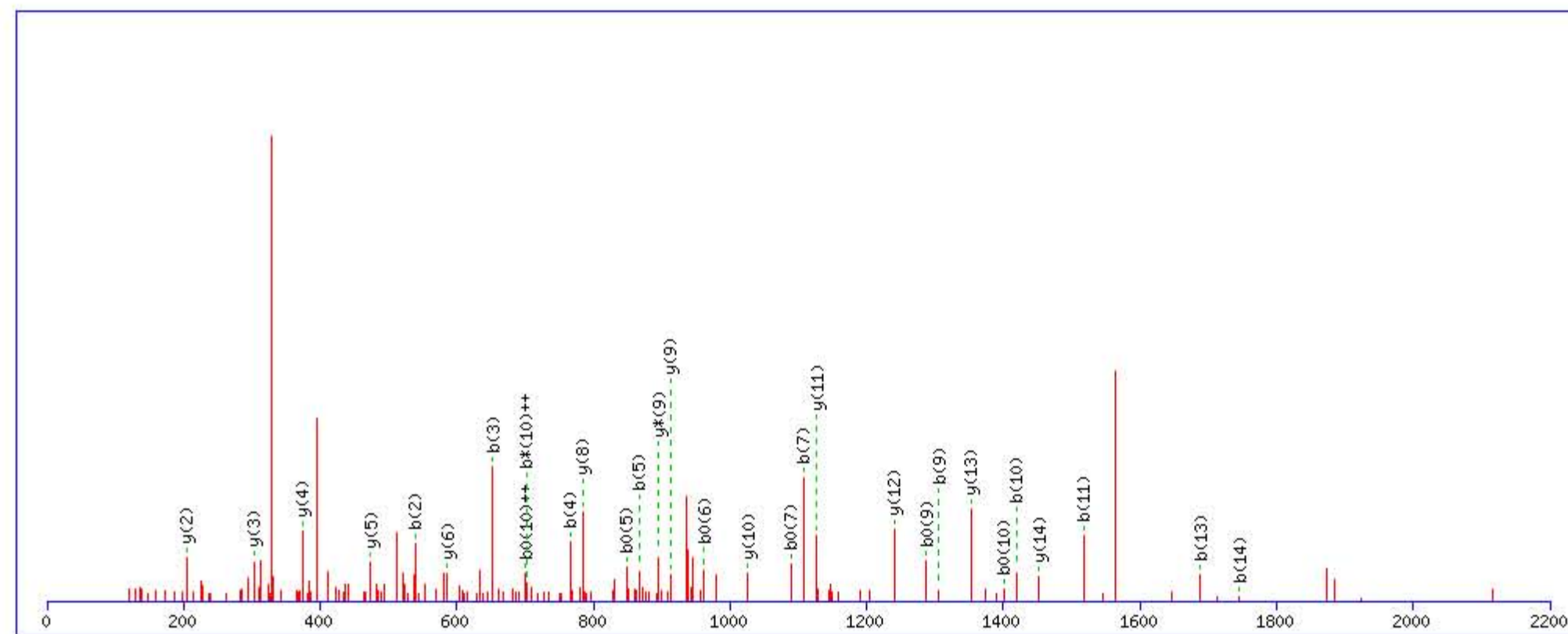
Title: Locus:1.1.1.3454.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1890.137634

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

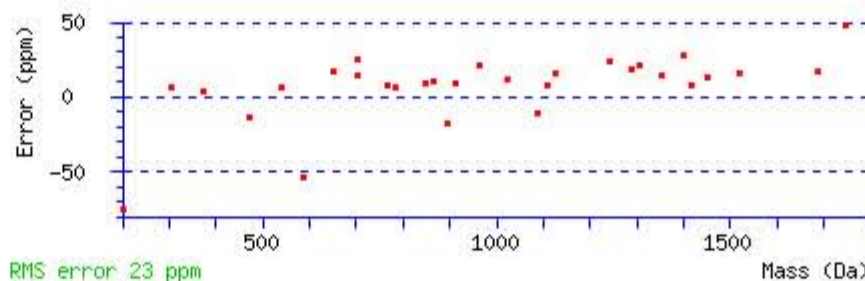
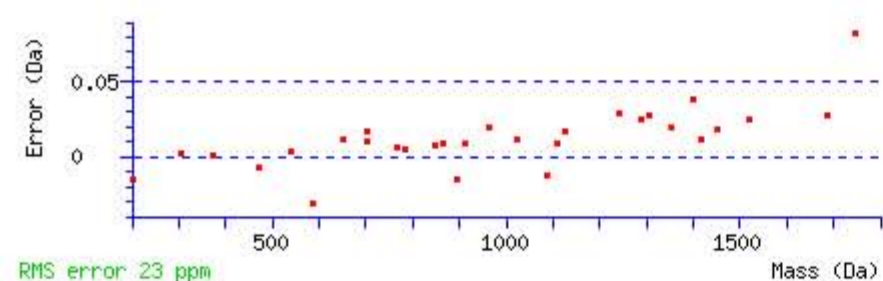
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 71 Expect: 8.8e-008

Matches : 30/148 fragment ions using 61 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							15
2	539.301016	270.154146	522.274467	261.640872			V	1451.919580	726.463428	1434.893031	717.950154	1433.909015	717.458146	14
3	652.385080	326.696178	635.358531	318.182904			I	1352.851166	676.929221	1335.824617	668.415947	1334.840601	667.923939	13
4	765.469144	383.238210	748.442595	374.724936			L	1239.767102	620.387189	1222.740553	611.873915	1221.756537	611.381907	12
5	866.516823	433.762050	849.490274	425.248775	848.506258	424.756767	T	1126.683038	563.845157	1109.656489	555.331883	1108.672473	554.839874	11
6	979.600887	490.304082	962.574338	481.790807	961.590322	481.298799	L	1025.635359	513.321318	1008.608810	504.808043	1007.624794	504.316035	10
7	1107.659465	554.333371	1090.632916	545.820096	1089.648900	545.328088	Q	912.551295	456.779286	895.524746	448.266011	894.540730	447.774003	9
8	1204.712229	602.859753	1187.685680	594.346478	1186.701664	593.854470	P	784.492717	392.749997	767.466168	384.236722	766.482152	383.744714	8
9	1305.759908	653.383592	1288.733359	644.870318	1287.749343	644.378310	T	687.439953	344.223615	670.413404	335.710340	669.429388	335.218332	7
10	1418.843972	709.925624	1401.817423	701.412350	1400.833407	700.920341	L	586.392274	293.699775	569.365725	285.186501			6
11	1517.912386	759.459831	1500.885837	750.946557	1499.901821	750.454548	V	473.308210	237.157743	456.281661	228.644469			5
12	1588.949500	794.978388	1571.922951	786.465114	1570.938935	785.973105	A	374.239796	187.623536	357.213247	179.110261			4
13	1688.017914	844.512595	1670.991365	835.999321	1670.007349	835.507313	V	303.202682	152.104979	286.176133	143.591704			3
14	1745.039378	873.023327	1728.012829	864.510053	1727.028813	864.018044	G	204.134268	102.570772	187.107719	94.057497			2
15							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **QVILTLQPTLVAVGK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
70.6	1890.137634	0.019814	<a href="#">QVILTLQPTLVAVGK</a>
15.6	1890.137634	0.019814	<a href="#">QVILTLQPTLVAVGK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QVVAGLNFR**

Found in **KNG1\_HUMAN**, Kininogen-1 OS=Homo sapiens GN=KNG1 PE=1 SV=2

Match to Query 20595: 1313.729408 from(657.871980,2+) rtinseconds(2233) index(20403)

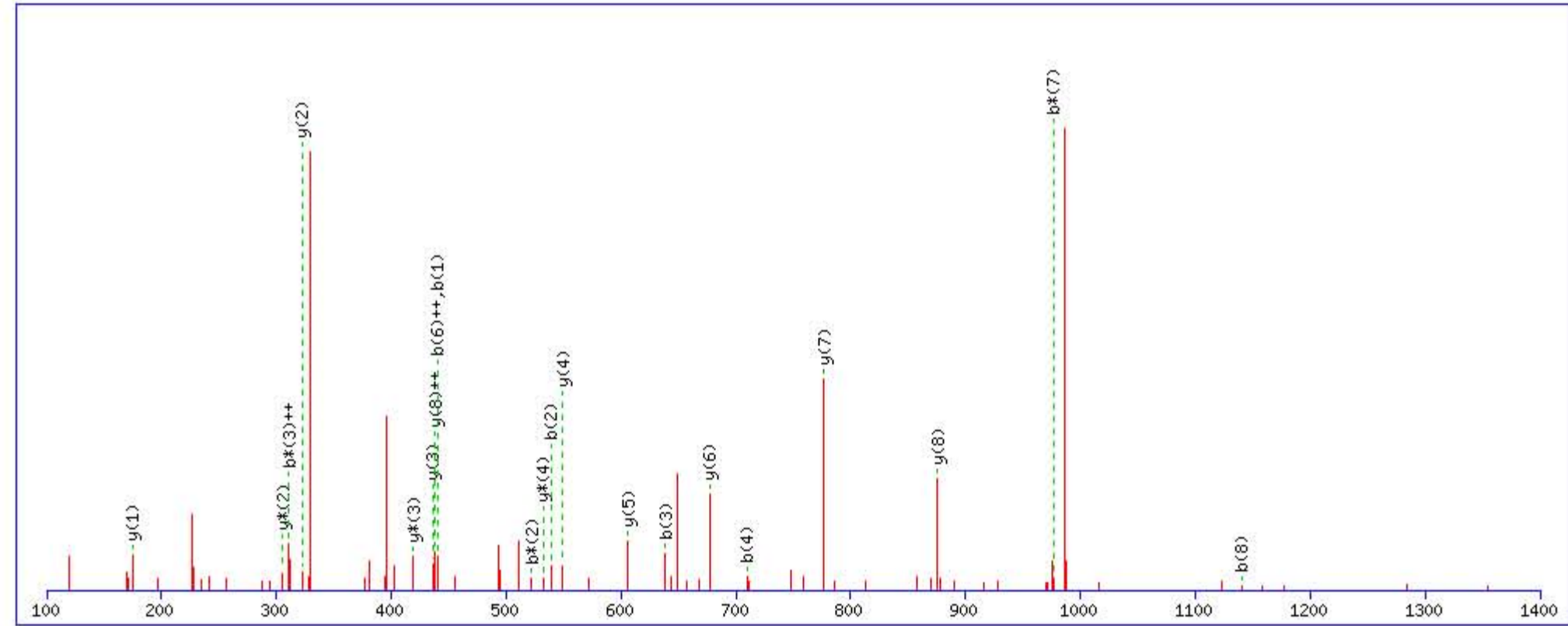
Title: Locus:1.1.1.3343.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1313.727814

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

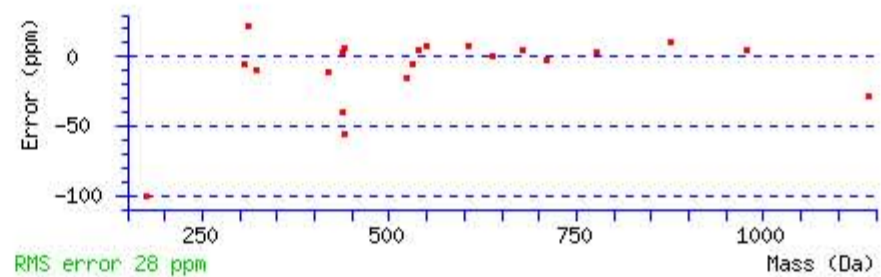
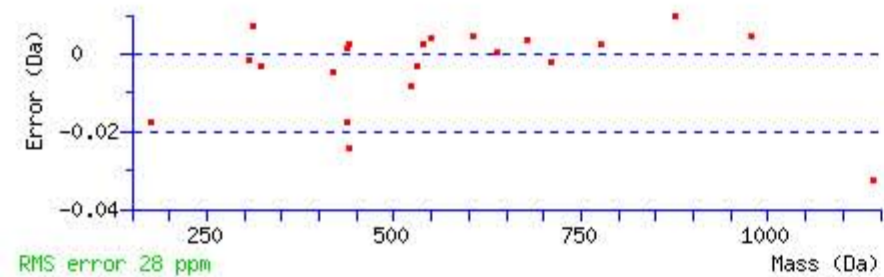
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.007

Matches : 21/64 fragment ions using 64 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	440.232602	220.619939	423.206053	212.106664	Q					9
2	539.301016	270.154146	522.274467	261.640872	V	875.509763	438.258520	858.483214	429.745245	8
3	638.369430	319.688353	621.342881	311.175078	V	776.441349	388.724313	759.414800	380.211038	7
4	709.406544	355.206910	692.379995	346.693635	A	677.372935	339.190106	660.346386	330.676831	6
5	766.428008	383.717642	749.401459	375.204367	G	606.335821	303.671549	589.309272	295.158274	5
6	879.512072	440.259674	862.485523	431.746400	L	549.314357	275.160817	532.287808	266.647542	4
7	993.554999	497.281138	976.528450	488.767863	N	436.230293	218.618784	419.203744	210.105510	3
8	1140.623413	570.815345	1123.596864	562.302070	F	322.187366	161.597321	305.160817	153.084047	2
9					R	175.118952	88.063114	158.092403	79.549839	1



NCBI BLAST search of **QVVAGLNFR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
27.7	1313.727814	0.001594	<a href="#">QVVAGLNFR</a>
4.4	1313.748947	-0.019539	<a href="#">VLVQSVCIQIR</a>
2.0	1313.730286	-0.000878	<a href="#">AKEDVLQKEVR</a>
2.0	1313.731644	-0.002236	<a href="#">GEP PPPVRRPGR</a>
2.0	1313.745575	-0.016167	<a href="#">GSLALQPFLVGGR</a>
2.0	1313.727798	0.001610	<a href="#">KLSLSVWQR</a>
2.0	1313.730301	-0.000893	<a href="#">LSQTLQVQLER</a>
2.0	1313.741516	-0.012108	<a href="#">NLTRLDSLNR</a>
2.0	1313.730286	-0.000878	<a href="#">QVTKEEGLALAR</a>
2.0	1313.723755	0.005653	<a href="#">SLKMLPERGQR</a>



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **EGDCPVQSGK**

Found in **KNG1\_HUMAN**, Kininogen-1 OS=Homo sapiens GN=KNG1 PE=1 SV=2

Match to Query 23067: 1386.620748 from(694.317650,2+) rtinseconds(1421) index(15369)

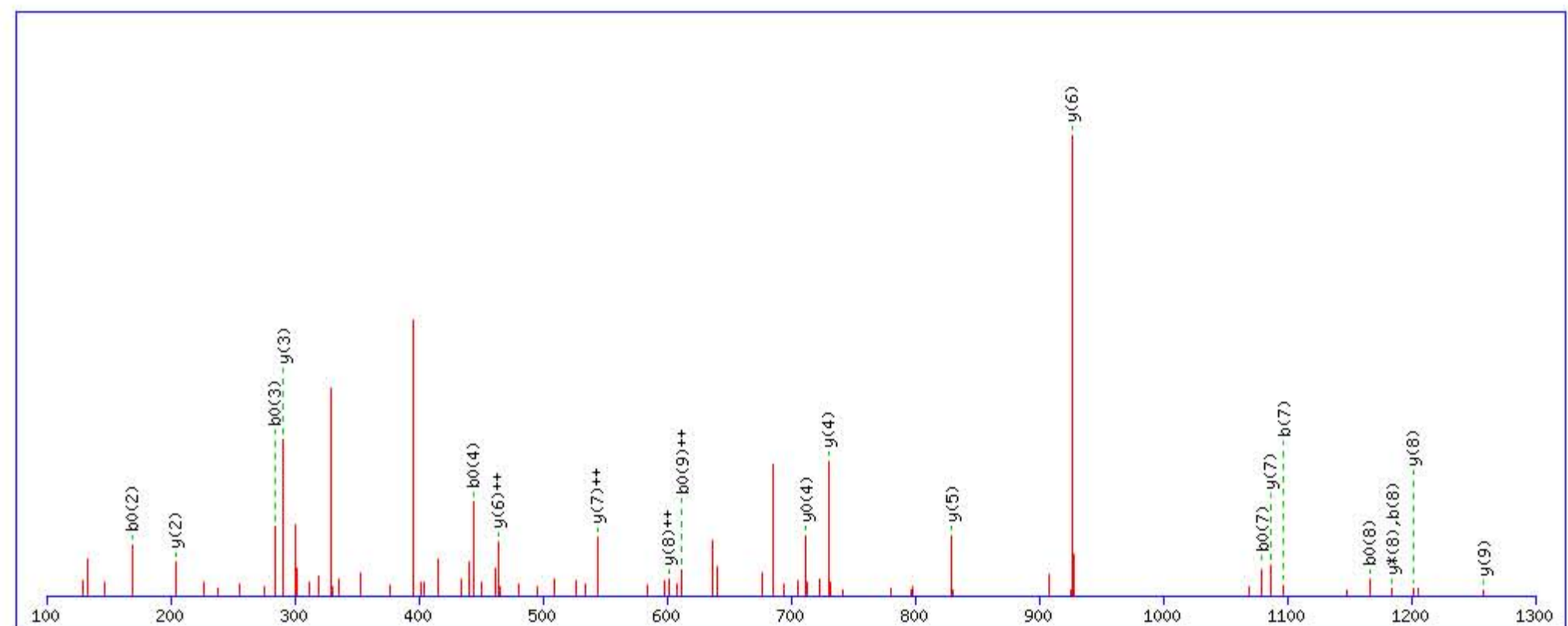
Title: Locus:1.1.1.3060.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1386.627182

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

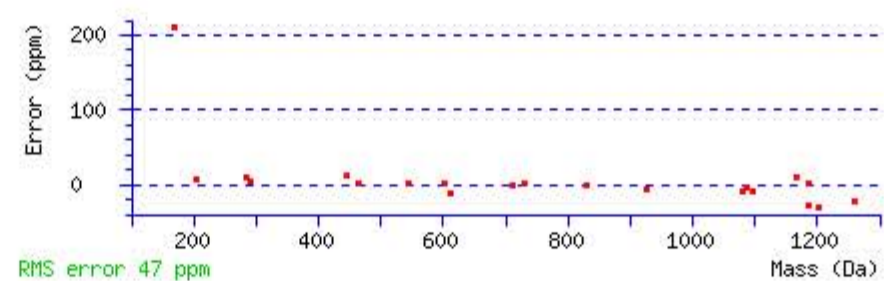
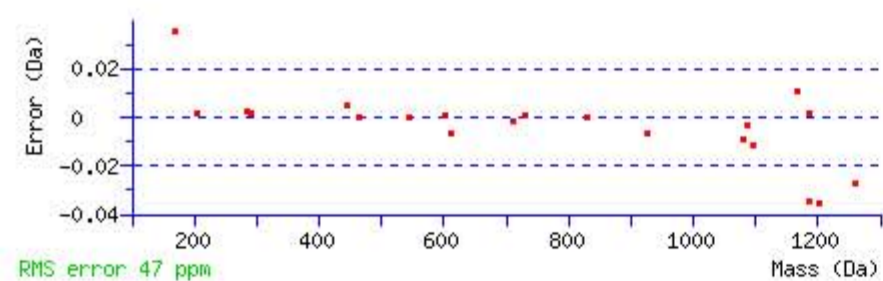
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 58 Expect: 9.7e-006

Matches : 21/92 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							10
2	187.071333	94.039305			169.060768	85.034022	G	1258.591856	629.799566	1241.565307	621.286292	1240.581291	620.794284	9
3	302.098276	151.552776			284.087711	142.547494	D	1201.570392	601.288834	1184.543843	592.775560	1183.559827	592.283552	8
4	462.128925	231.568101			444.118360	222.562818	C	1086.543449	543.775363	1069.516900	535.262088	1068.532884	534.770080	7
5	559.181689	280.094483			541.171124	271.089200	P	926.512800	463.760038	909.486251	455.246764	908.502235	454.754756	6
6	658.250103	329.628690			640.239538	320.623407	V	829.460036	415.233656	812.433487	406.720382	811.449471	406.228374	5
7	1097.475429	549.241353	1080.448880	540.728078	1079.464864	540.236070	Q	730.391622	365.699449	713.365073	357.186175	712.381057	356.694167	4
8	1184.507457	592.757367	1167.480908	584.244092	1166.496892	583.752084	S	291.166296	146.086786	274.139747	137.573512	273.155731	137.081504	3
9	1241.528921	621.268099	1224.502372	612.754824	1223.518356	612.262816	G	204.134268	102.570772	187.107719	94.057497			2
10							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EGDCPVQSGK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
57.6	1386.627182	-0.006434	<a href="#">EGDCPVQSGK</a>
5.4	1386.619766	0.000982	<a href="#">QMQQQEHDSLK</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **TWQDCEYK**

Found in **KNG1\_HUMAN**, Kininogen-1 OS=Homo sapiens GN=KNG1 PE=1 SV=2

Match to Query 25574: 1439.615508 from(720.815030,2+) rtinseconds(1799) index(17731)

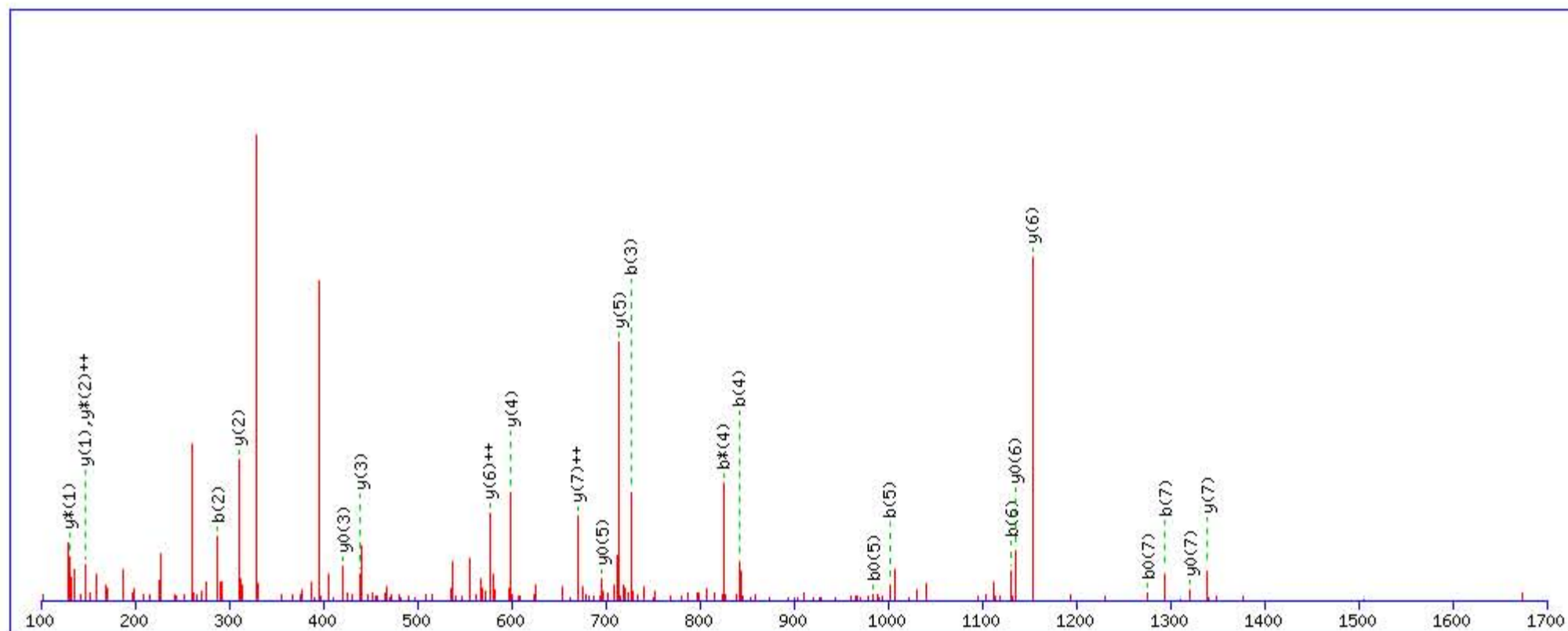
Title: Locus:1.1.1.3192.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1439.621353

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

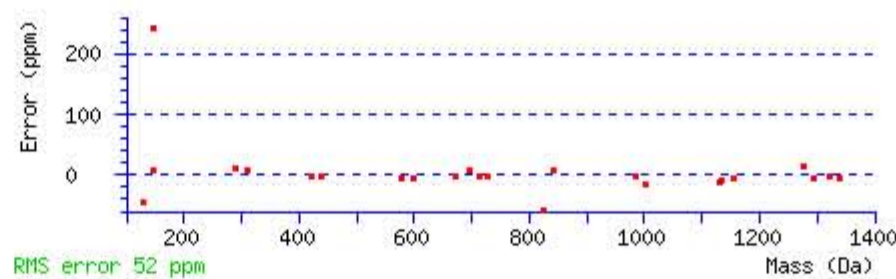
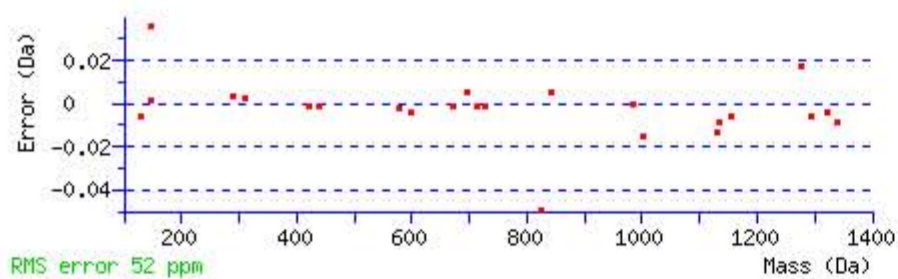
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 30 Expect: 0.0036

Matches : 24/76 fragment ions using 52 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							8
2	<b>288.134268</b>	144.570772			270.123703	135.565490	W	<b>1339.580957</b>	<b>670.294117</b>	1322.554408	661.780842	<b>1321.570392</b>	661.288834	7
3	<b>727.359594</b>	364.183435	710.333045	355.670161	709.349029	355.178153	Q	<b>1153.501644</b>	<b>577.254460</b>	1136.475095	568.741186	<b>1135.491079</b>	568.249178	6
4	<b>842.386537</b>	421.696907	<b>825.359988</b>	413.183632	824.375972	412.691624	D	<b>714.276318</b>	357.641797	697.249769	349.128523	<b>696.265753</b>	348.636515	5
5	<b>1002.417186</b>	501.712231	985.390637	493.198957	<b>984.406621</b>	492.706949	C	<b>599.249375</b>	300.128326	582.222826	291.615051	581.238810	291.123043	4
6	<b>1131.459779</b>	566.233528	1114.433230	557.720253	1113.449214	557.228245	E	<b>439.218726</b>	220.113001	422.192177	211.599727	<b>421.208161</b>	211.107719	3
7	<b>1294.523108</b>	647.765192	1277.496559	639.251918	<b>1276.512543</b>	638.759910	Y	<b>310.176133</b>	155.591705	293.149584	<b>147.078430</b>			2
8							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **TWQDCEYK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
30.1	1439.621353	-0.005845	<a href="#">TWQDCEYK</a>
5.0	1439.602036	0.013472	<a href="#">EQMEEEQKAMR</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **IASFSQNCDIYPGK**

Found in **KNG1\_HUMAN**, Kininogen-1 OS=Homo sapiens GN=KNG1 PE=1 SV=2

Match to Query 37614: 1909.890968 from(955.952760,2+) rtinseconds(2064) index(19397)

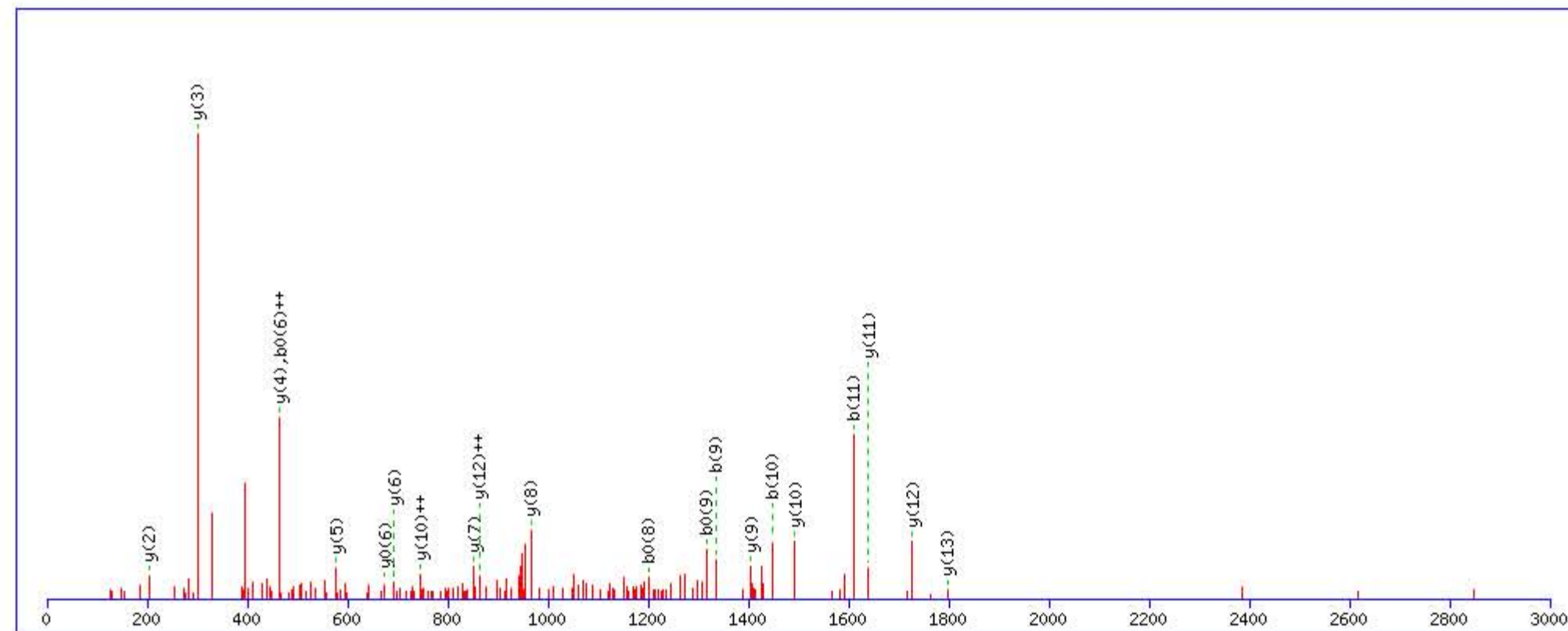
Title: Locus:1.1.1.3284.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1909.906631

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

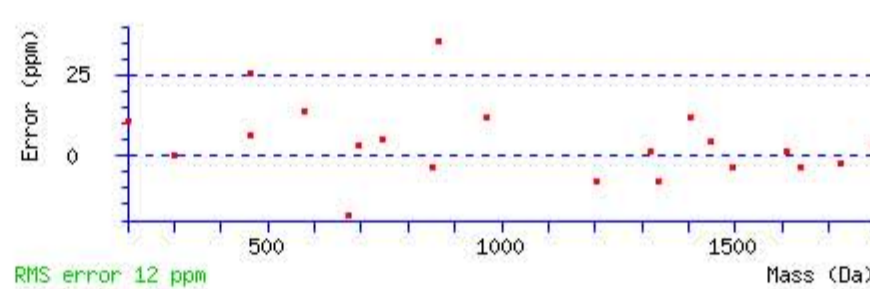
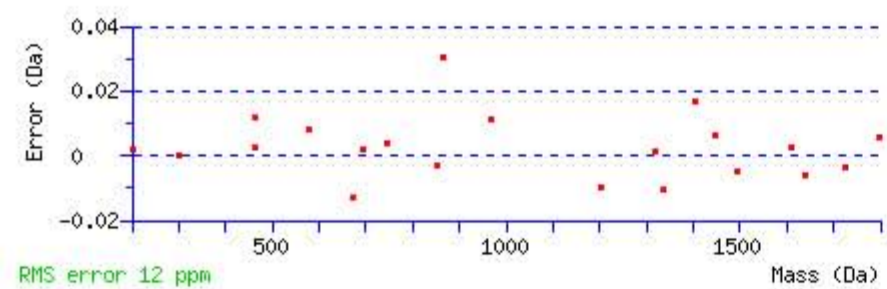
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 85 Expect: 4.6e-008

Matches : 21/132 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							14
2	185.128454	93.067865					A	<b>1797.829854</b>	899.418565	1780.803305	890.905291	1779.819289	890.413283	13
3	272.160482	136.583879			254.149917	127.578596	S	<b>1726.792740</b>	<b>863.900008</b>	1709.766191	855.386734	1708.782175	854.894726	12
4	419.228896	210.118086			401.218331	201.112803	F	<b>1639.760712</b>	820.383994	1622.734163	811.870720	1621.750147	811.378712	11
5	506.260924	253.634100			488.250359	244.628817	S	<b>1492.692298</b>	<b>746.849787</b>	1475.665749	738.336513	1474.681733	737.844505	10
6	945.486250	473.246763	928.459701	464.733488	927.475685	<b>464.241480</b>	Q	<b>1405.660270</b>	703.333773	1388.633721	694.820499	1387.649705	694.328491	9
7	1059.529177	530.268226	1042.502628	521.754952	1041.518612	521.262944	N	<b>966.434944</b>	483.721110	949.408395	475.207836	948.424379	474.715828	8
8	1219.559826	610.283551	1202.533277	601.770277	<b>1201.549261</b>	601.278268	C	<b>852.392017</b>	426.699647	835.365468	418.186372	834.381452	417.694364	7
9	<b>1334.586769</b>	667.797023	1317.560220	659.283748	<b>1316.576204</b>	658.791740	D	<b>692.361368</b>	346.684322	675.334819	338.171048	<b>674.350803</b>	337.679040	6
10	<b>1447.670833</b>	724.339054	1430.644284	715.825780	1429.660268	715.333772	I	<b>577.334425</b>	289.170851	560.307876	280.657576			5
11	<b>1610.734162</b>	805.870719	1593.707613	797.357445	1592.723597	796.865436	Y	<b>464.250361</b>	232.628818	447.223812	224.115544			4
12	1707.786926	854.397101	1690.760377	845.883827	1689.776361	845.391819	P	<b>301.187032</b>	151.097154	284.160483	142.583879			3
13	1764.808390	882.907833	1747.781841	874.394559	1746.797825	873.902550	G	<b>204.134268</b>	102.570772	187.107719	94.057497			2
14							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **IASFSQNCDIYPGK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
85.1	1909.906631	-0.015663	<a href="#">IASFSQNCDIYPGK</a>
6.9	1909.877441	0.013527	<a href="#">IAREAPSECNCPPAGPPGK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **YNSQNQSNNQFVLYR**

Found in **KNG1\_HUMAN**, Kininogen-1 OS=Homo sapiens GN=KNG1 PE=1 SV=2

Match to Query 43004: 2185.020628 from(1093.517590,2+) rtinseconds(2145) index(32713)

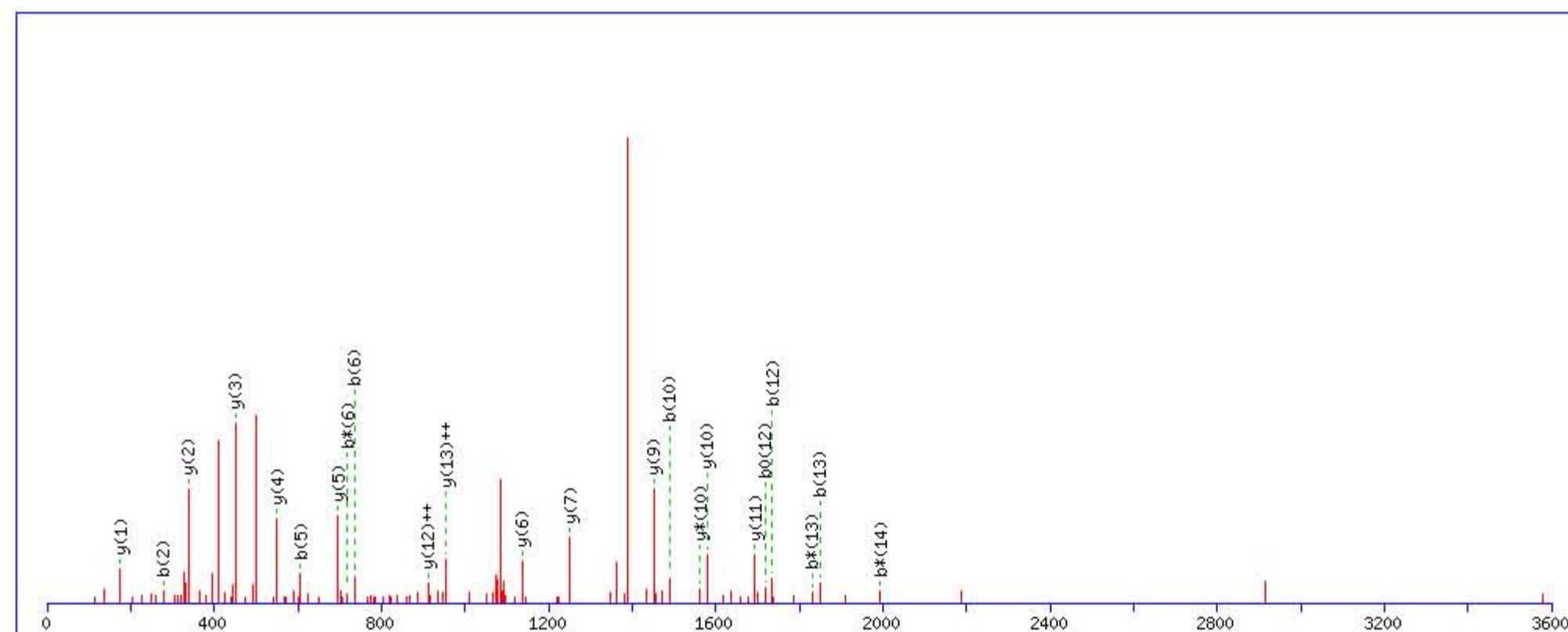
Title: Locus:1.1.1.3410.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2185.037445

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

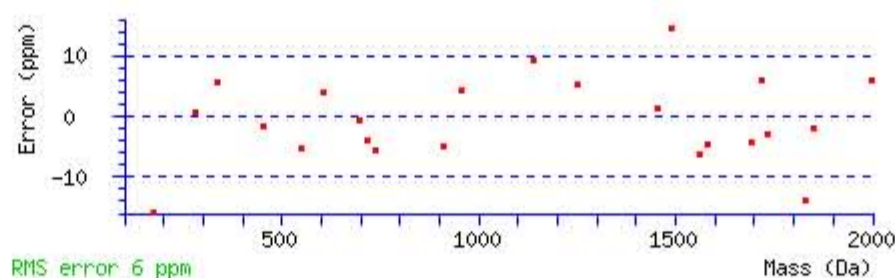
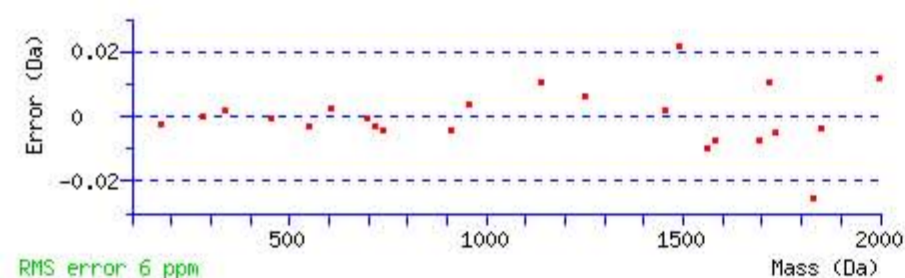
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 65 Expect: 1.3e-006

Matches : 23/146 fragment ions using 37 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							15
2	<b>278.113532</b>	139.560404	261.086983	131.047130			N	2022.981419	1011.994348	2005.954870	1003.481073	2004.970854	1002.989065	14
3	365.145560	183.076418	348.119011	174.563144	347.134995	174.071136	S	1908.938492	<b>954.972884</b>	1891.911943	946.459610	1890.927927	945.967602	13
4	493.204138	247.105707	476.177589	238.592433	475.193573	238.100425	Q	1821.906464	<b>911.456870</b>	1804.879915	902.943596	1803.895899	902.451588	12
5	<b>607.247065</b>	304.127171	590.220516	295.613896	589.236500	295.121888	N	<b>1693.847886</b>	847.427581	1676.821337	838.914307	1675.837321	838.422299	11
6	<b>735.305643</b>	368.156460	<b>718.279094</b>	359.643185	717.295078	359.151177	Q	<b>1579.804959</b>	790.406118	<b>1562.778410</b>	781.892843	1561.794394	781.400835	10
7	822.337671	411.672474	805.311122	403.159199	804.327106	402.667191	S	<b>1451.746381</b>	726.376829	1434.719832	717.863554	1433.735816	717.371546	9
8	936.380598	468.693937	919.354049	460.180662	918.370033	459.688654	N	1364.714353	682.860815	1347.687804	674.347540			8
9	1050.423525	525.715400	1033.396976	517.202126	1032.412960	516.710118	N	<b>1250.671426</b>	625.839351	1233.644877	617.326077			7
10	<b>1489.648851</b>	745.328064	1472.622302	736.814789	1471.638286	736.322781	Q	<b>1136.628499</b>	568.817888	1119.601950	560.304613			6
11	1636.717265	818.862271	1619.690716	810.348996	1618.706700	809.856988	F	<b>697.403173</b>	349.205225	680.376624	340.691950			5
12	<b>1735.785679</b>	868.396478	1718.759130	859.883203	<b>1717.775114</b>	859.391195	V	<b>550.334759</b>	275.671018	533.308210	267.157743			4
13	<b>1848.869743</b>	924.938510	<b>1831.843194</b>	916.425235	1830.859178	915.933227	L	<b>451.266345</b>	226.136811	434.239796	217.623536			3
14	2011.933072	1006.470174	<b>1994.906523</b>	997.956900	1993.922507	997.464892	Y	<b>338.182281</b>	169.594779	321.155732	161.081504			2
15							R	<b>175.118952</b>	88.063114	158.092403	79.549840			1



NCBI BLAST search of **YNSQNQSNNQFVLYR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
64.8	2185.037445	-0.016817	<a href="#">YNSQNQSNNQFVLYR</a>
28.8	2185.037445	-0.016817	<a href="#">YNSQNQSNNQFVLYR</a>
13.4	2185.037445	-0.016817	<a href="#">YNSQNQSNNQFVLYR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **YNSQNQSNNQFVLYR**

Found in **KNG1\_HUMAN**, Kininogen-1 OS=Homo sapiens GN=KNG1 PE=1 SV=2

Match to Query 43005: 2185.031248 from(1093.522900,2+) rtinseconds(2062) index(19385)

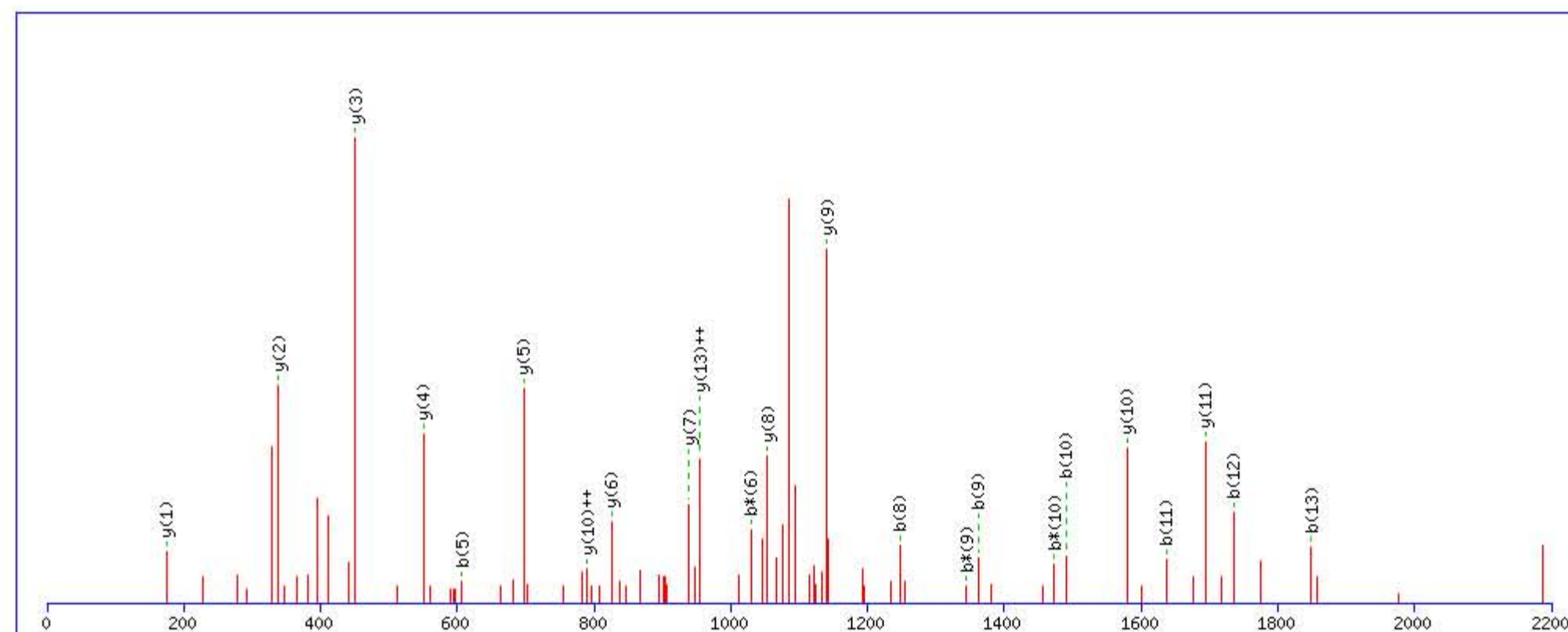
Title: Locus:1.1.1.3283.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2185.037445

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

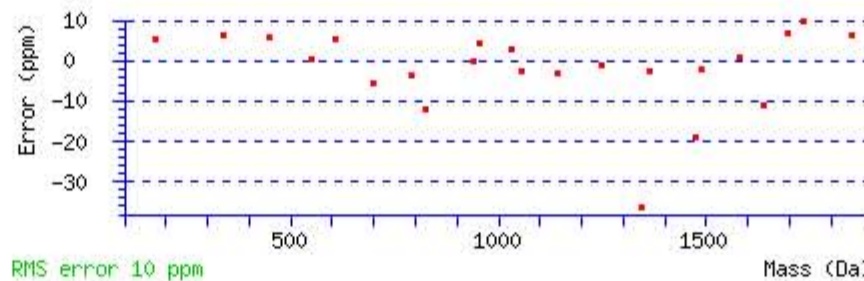
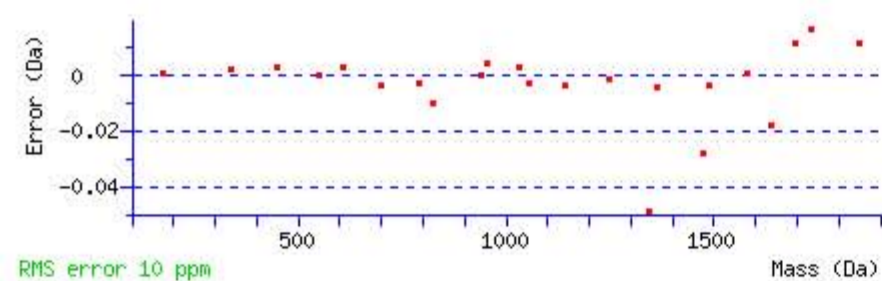
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 81 Expect: 2.8e-008

Matches : 23/146 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							15
2	278.113532	139.560404	261.086983	131.047130			N	2022.981419	1011.994348	2005.954870	1003.481073	2004.970854	1002.989065	14
3	365.145560	183.076418	348.119011	174.563144	347.134995	174.071136	S	1908.938492	954.972884	1891.911943	946.459610	1890.927927	945.967602	13
4	493.204138	247.105707	476.177589	238.592433	475.193573	238.100425	Q	1821.906464	911.456870	1804.879915	902.943596	1803.895899	902.451588	12
5	607.247065	304.127171	590.220516	295.613896	589.236500	295.121888	N	1693.847886	847.427581	1676.821337	838.914307	1675.837321	838.422299	11
6	1046.472391	523.739834	1029.445842	515.226559	1028.461826	514.734551	Q	1579.804959	790.406118	1562.778410	781.892843	1561.794394	781.400835	10
7	1133.504419	567.255848	1116.477870	558.742573	1115.493854	558.250565	S	1140.579633	570.793455	1123.553084	562.280180	1122.569068	561.788172	9
8	1247.547346	624.277311	1230.520797	615.764037	1229.536781	615.272029	N	1053.547605	527.277441	1036.521056	518.764166			8
9	1361.590273	681.298775	1344.563724	672.785500	1343.579708	672.293492	N	939.504678	470.255977	922.478129	461.742703			7
10	1489.648851	745.328064	1472.622302	736.814789	1471.638286	736.322781	Q	825.461751	413.234514	808.435202	404.721239			6
11	1636.717265	818.862271	1619.690716	810.348996	1618.706700	809.856988	F	697.403173	349.205225	680.376624	340.691950			5
12	1735.785679	868.396478	1718.759130	859.883203	1717.775114	859.391195	V	550.334759	275.671018	533.308210	267.157743			4
13	1848.869743	924.938510	1831.843194	916.425235	1830.859178	915.933227	L	451.266345	226.136811	434.239796	217.623536			3
14	2011.933072	1006.470174	1994.906523	997.956900	1993.922507	997.464892	Y	338.182281	169.594779	321.155732	161.081504			2
15							R	175.118952	88.063114	158.092403	79.549840			1



NCBI BLAST search of **YNSQNQSNNQFVLYR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
81.1	2185.037445	-0.006197	<a href="#">YNSQNQSNNQFVLYR</a>
50.0	2185.037445	-0.006197	<a href="#">YNSQNQSNNQFVLYR</a>
43.1	2185.037445	-0.006197	<a href="#">YNSQNQSNNQFVLYR</a>
0.6	2185.040604	-0.009356	<a href="#">ERAAAAAAAAQMHAKNNGGSSSR</a>
0.5	2185.047348	-0.016100	<a href="#">HLSSLTDNEQADIFER</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LGQSLDCNAEVYVVPWEK**

Found in **KNG1\_HUMAN**, Kininogen-1 OS=Homo sapiens GN=KNG1 PE=1 SV=2

Match to Query 46747: 2417.172252 from(806.731360,3+) rtinseconds(2581) index(35035)

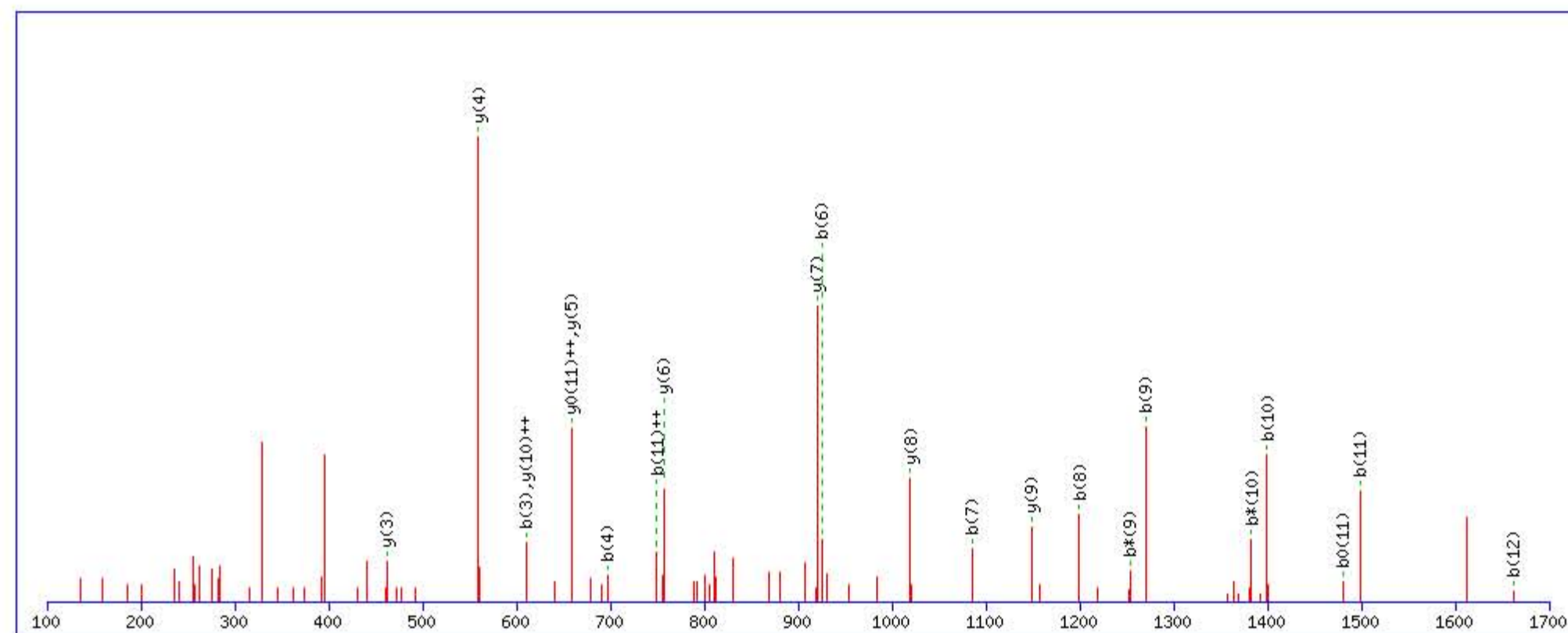
Title: Locus:1.1.1.3562.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2417.175934

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

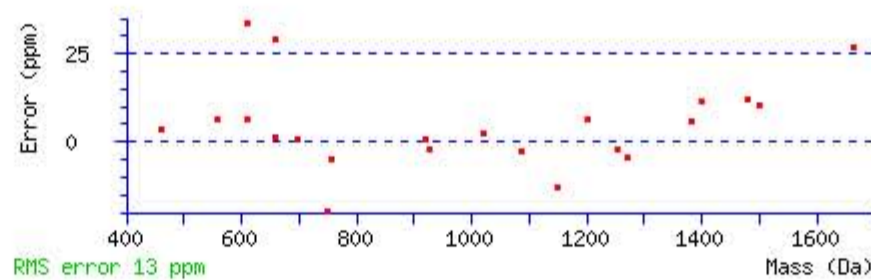
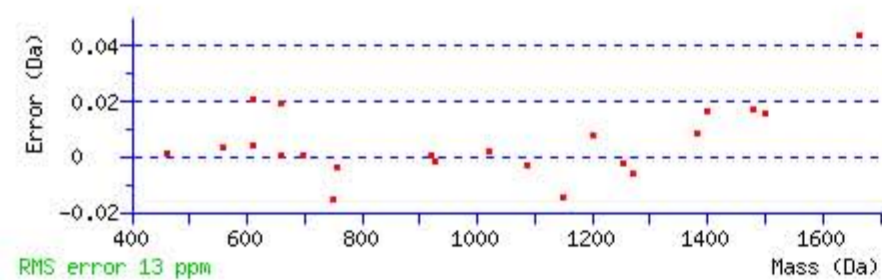
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 60 Expect: 3.1e-006

Matches : 22/192 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							18
2	171.112804	86.060040					G	2305.099153	1153.053214	2288.072604	1144.539940	2287.088588	1144.047932	17
3	<b>610.338130</b>	305.672703	593.311581	297.159429			Q	2248.077689	1124.542482	2231.051140	1116.029208	2230.067124	1115.537200	16
4	<b>697.370158</b>	349.188717	680.343609	340.675443	679.359593	340.183435	S	1808.852363	904.929820	1791.825814	896.416545	1790.841798	895.924537	15
5	810.454222	405.730749	793.427673	397.217475	792.443657	396.725467	L	1721.820335	861.413806	1704.793786	852.900531	1703.809770	852.408523	14
6	<b>925.481165</b>	463.244221	908.454616	454.730946	907.470600	454.238938	D	1608.736271	804.871774	1591.709722	796.358499	1590.725706	795.866491	13
7	<b>1085.511814</b>	543.259545	1068.485265	534.746271	1067.501249	534.254262	C	1493.709328	747.358302	1476.682779	738.845028	1475.698763	738.353020	12
8	<b>1199.554741</b>	600.281008	1182.528192	591.767734	1181.544176	591.275726	N	1333.678679	667.342978	1316.652130	658.829703	1315.668114	<b>658.337695</b>	11
9	<b>1270.591855</b>	635.799565	<b>1253.565306</b>	627.286291	1252.581290	626.794283	A	1219.635752	<b>610.321514</b>	1202.609203	601.808240	1201.625187	601.316232	10
10	<b>1399.634448</b>	700.320862	<b>1382.607899</b>	691.807588	1381.623883	691.315580	E	<b>1148.598638</b>	574.802957	1131.572089	566.289683	1130.588073	565.797675	9
11	<b>1498.702862</b>	<b>749.855069</b>	1481.676313	741.341795	<b>1480.692297</b>	740.849787	V	<b>1019.556045</b>	510.281661	1002.529496	501.768386	1001.545480	501.276378	8
12	<b>1661.766191</b>	831.386734	1644.739642	822.873459	1643.755626	822.381451	Y	<b>920.487631</b>	460.747454	903.461082	452.234179	902.477066	451.742171	7
13	1760.834605	880.920941	1743.808056	872.407666	1742.824040	871.915658	V	<b>757.424302</b>	379.215789	740.397753	370.702515	739.413737	370.210507	6
14	1859.903019	930.455148	1842.876470	921.941873	1841.892454	921.449865	V	<b>658.355888</b>	329.681582	641.329339	321.168308	640.345323	320.676300	5
15	1956.955783	978.981530	1939.929234	970.468255	1938.945218	969.976247	P	<b>559.287474</b>	280.147375	542.260925	271.634101	541.276909	271.142093	4
16	2143.035096	1072.021186	2126.008547	1063.507911	2125.024531	1063.015903	W	<b>462.234710</b>	231.620993	445.208161	223.107719	444.224145	222.615711	3
17	2272.077689	1136.542483	2255.051140	1128.029208	2254.067124	1127.537200	E	276.155397	138.581337	259.128848	130.068062	258.144832	129.576054	2
18							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LGQSLDCNAEVYVVPWEK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
60.2	2417.175934	-0.003682	<a href="#">LGQSLDCNAEVYVVPWEK</a>
1.4	2417.149246	0.023006	<a href="#">DEVSGAQMNSSLPLQDAVSSNLR</a>
1.1	2417.146713	0.025539	<a href="#">AMSIREQIGHDPDYILEEMNR</a>

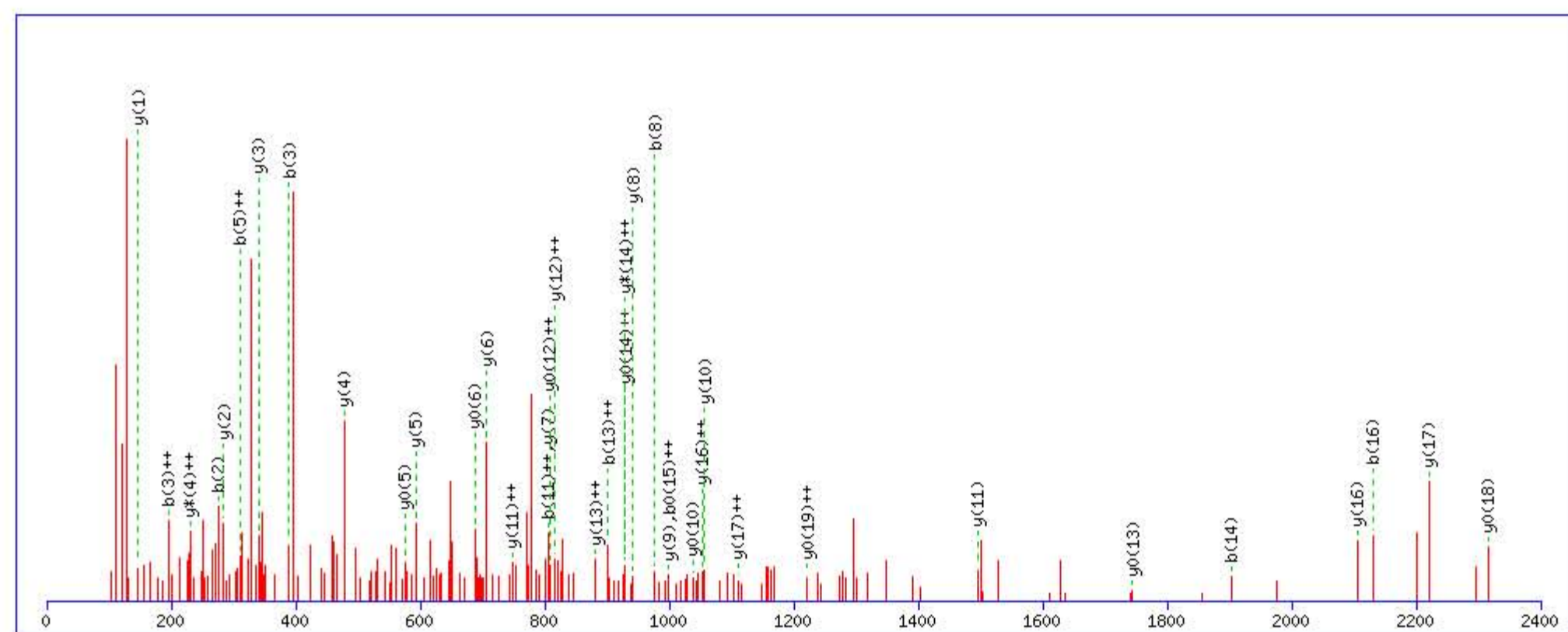
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **FKLDDDDLEHQQGGHVLDDHGHK**  
 Found in **KNG1\_HUMAN**, Kininogen-1 OS=Homo sapiens GN=KNG1 PE=1 SV=2

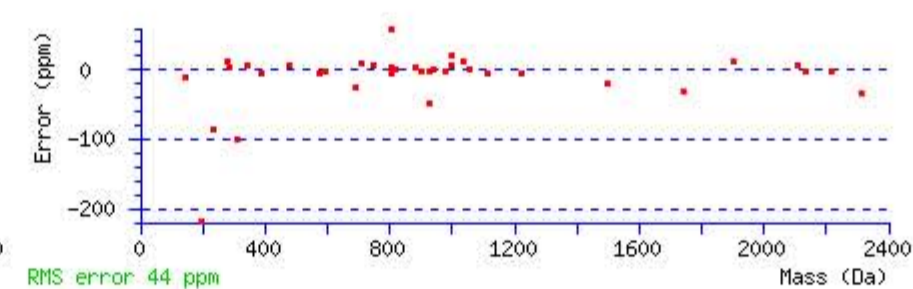
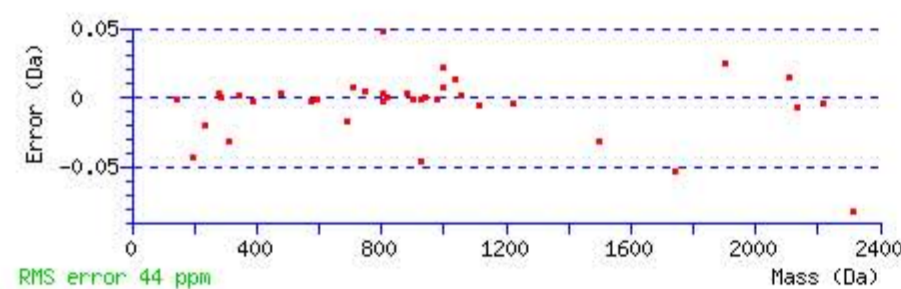
Match to Query 49613: 2607.260496 from(652.822400,4+) rtinseconds(1760) index(30334)  
 Title: Locus:1.1.1.3276.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2607.265259  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q10 : Biotin:Thermo-21345 (Q)  
 Ions Score: 39 Expect: 0.003  
 Matches : 38/212 fragment ions using 108 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					<b>F</b>							<b>20</b>
2	<b>276.170653</b>	138.588964	259.144104	130.075690			<b>K</b>	2461.204104	1231.105690	2444.177555	1222.592415	2443.193539	<b>1222.100407</b>	<b>19</b>
3	<b>389.254717</b>	<b>195.130996</b>	372.228168	186.617722			<b>L</b>	2333.109141	1167.058208	2316.082592	1158.544934	<b>2315.098576</b>	1158.052926	<b>18</b>
4	504.281660	252.644468	487.255111	244.131193	486.271095	243.639186	<b>D</b>	<b>2220.025077</b>	<b>1110.516176</b>	2202.998528	1102.002902	2202.014512	1101.510894	<b>17</b>
5	619.308603	<b>310.157940</b>	602.282054	301.644665	601.298038	301.152657	<b>D</b>	<b>2104.998134</b>	<b>1053.002705</b>	2087.971585	1044.489430	2086.987569	1043.997422	<b>16</b>
6	734.335546	367.671411	717.308997	359.158137	716.324981	358.666129	<b>D</b>	1989.971191	995.489233	1972.944642	986.975959	1971.960626	986.483951	<b>15</b>
7	847.419610	424.213443	830.393061	415.700169	829.409045	415.208161	<b>L</b>	1874.944248	937.975762	1857.917699	<b>929.462487</b>	1856.933683	<b>928.970479</b>	<b>14</b>
8	<b>976.462203</b>	488.734740	959.435654	480.221465	958.451638	479.729457	<b>E</b>	1761.860184	<b>881.433730</b>	1744.833635	872.920455	<b>1743.849619</b>	872.428447	<b>13</b>
9	1113.521115	557.264196	1096.494566	548.750921	1095.510550	548.258913	<b>H</b>	1632.817591	<b>816.912433</b>	1615.791042	808.399159	1614.807026	<b>807.907151</b>	<b>12</b>
10	1552.746441	776.876859	1535.719892	768.363584	1534.735876	767.871576	<b>Q</b>	<b>1495.758679</b>	<b>748.382977</b>	1478.732130	739.869703	1477.748114	739.377695	<b>11</b>
11	1609.767905	<b>805.387590</b>	1592.741356	796.874316	1591.757340	796.382308	<b>G</b>	<b>1056.533353</b>	528.770314	1039.506804	520.257040	<b>1038.522788</b>	519.765032	<b>10</b>
12	1666.789369	833.898322	1649.762820	825.385048	1648.778804	824.893040	<b>G</b>	<b>999.511889</b>	500.259582	982.485340	491.746308	981.501324	491.254300	<b>9</b>
13	1803.848281	<b>902.427778</b>	1786.821732	893.914504	1785.837716	893.422496	<b>H</b>	<b>942.490425</b>	471.748850	925.463876	463.235576	924.479860	462.743568	<b>8</b>
14	<b>1902.916695</b>	951.961985	1885.890146	943.448711	1884.906130	942.956703	<b>V</b>	<b>805.431513</b>	403.219394	788.404964	394.706120	787.420948	394.214112	<b>7</b>
15	2016.000759	1008.504017	1998.974210	999.990743	1997.990194	<b>999.498735</b>	<b>L</b>	<b>706.363099</b>	353.685187	689.336550	345.171913	<b>688.352534</b>	344.679905	<b>6</b>
16	<b>2131.027702</b>	1066.017489	2114.001153	1057.504214	2113.017137	1057.012206	<b>D</b>	<b>593.279035</b>	297.143155	576.252486	288.629881	<b>575.268470</b>	288.137873	<b>5</b>
17	2268.086614	1134.546945	2251.060065	1126.033670	2250.076049	1125.541662	<b>H</b>	<b>478.252092</b>	239.629684	461.225543	<b>231.116409</b>			<b>4</b>
18	2325.108078	1163.057677	2308.081529	1154.544402	2307.097513	1154.052394	<b>G</b>	<b>341.193180</b>	171.100228	324.166631	162.586953			<b>3</b>
19	2462.166990	1231.587133	2445.140441	1223.073858	2444.156425	1222.581850	<b>H</b>	<b>284.171716</b>	142.589496	267.145167	134.076221			<b>2</b>
20							<b>K</b>	<b>147.112804</b>	74.060040	130.086255	65.546765			<b>1</b>



NCBI BLAST search of **FKLDDDDLEHQQGGHVLDDHGHK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
38.8	2607.265259	-0.004763	<a href="#">FKLDDDDLEHQQGGHVLDDHGHK</a>

# MASCOT Search Results

## Peptide View

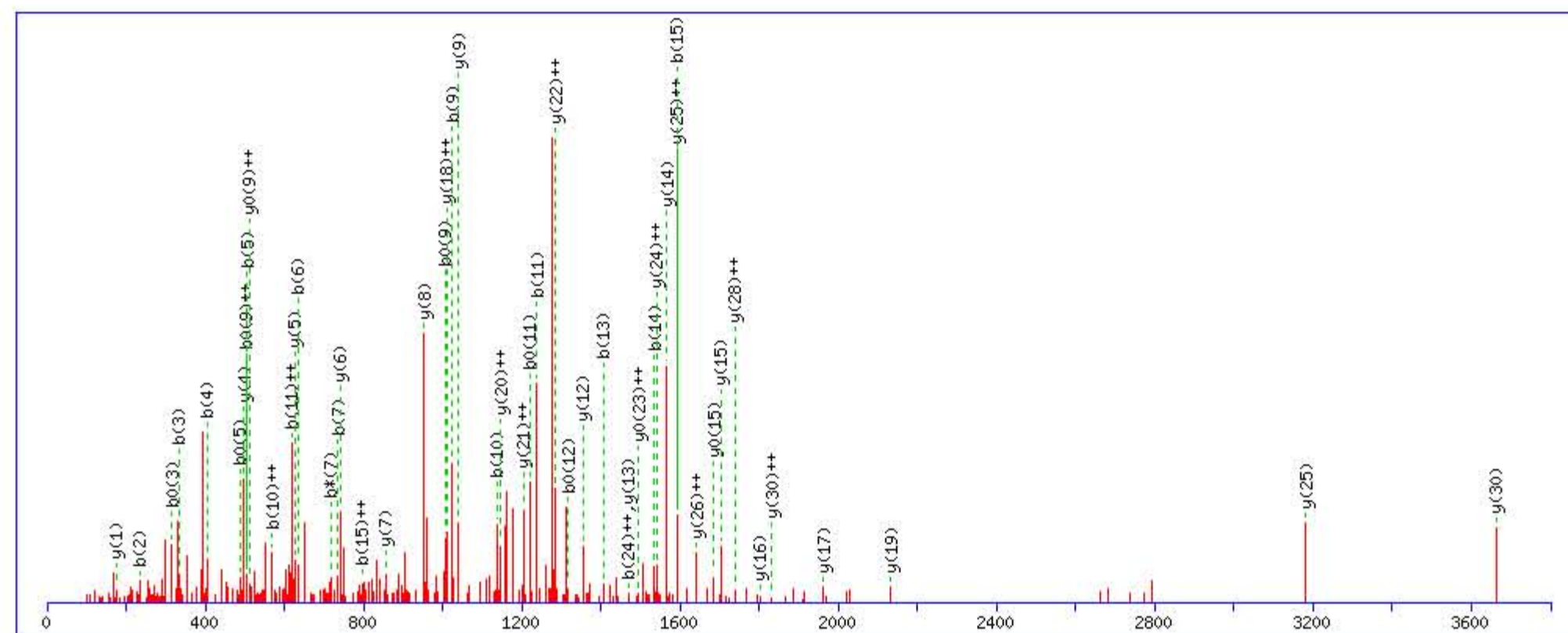
MS/MS Fragmentation of **FSVATQTCQITPAEGPVVTAQYDCLGCVHPISTQSPDLEPILR**  
Found in **KNG1\_HUMAN**, Kininogen-1 OS=Homo sapiens GN=KNG1 PE=1 SV=2

Match to Query 67670: 5066.469570 from(1014.301190,5+) rtinseconds(2672) index(35656)  
Title: Locus:1.1.1.3593.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

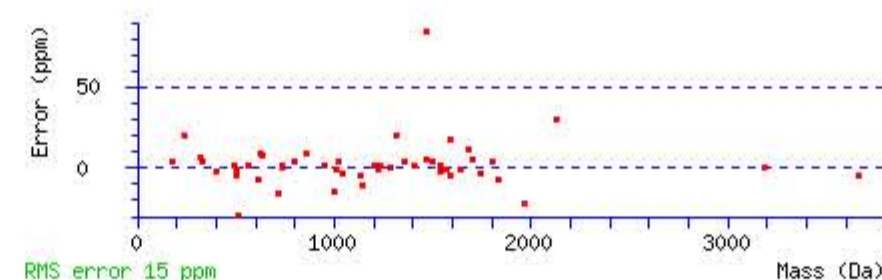
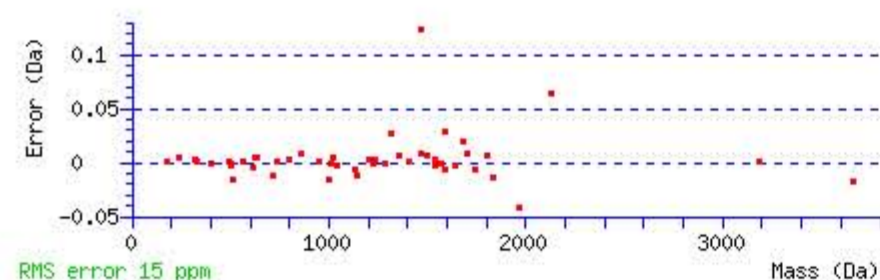
Or, Plot from  to  Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 5066.465057  
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
Variable modifications:  
Q21 : Biotin:Thermo-21345 (Q)  
Ions Score: 59 Expect: 2.5e-005  
Matches : 51/484 fragment ions using 140 most intense peaks (help)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					<b>F</b>							<b>43</b>
2	<b>235.107718</b>	118.057497			217.097153	109.052214	<b>S</b>	4920.403881	2460.705578	4903.377332	2452.192304	4902.393316	2451.700296	<b>42</b>
3	<b>334.176132</b>	167.591704			<b>316.165567</b>	158.586422	<b>V</b>	4833.371853	2417.189565	4816.345304	2408.676290	4815.361288	2408.184282	<b>41</b>
4	<b>405.213246</b>	203.110261			387.202681	194.104978	<b>A</b>	4734.303439	2367.655357	4717.276890	2359.142083	4716.292874	2358.650075	<b>40</b>
5	<b>506.260925</b>	253.634100			<b>488.250360</b>	244.628818	<b>T</b>	4663.266325	2332.136800	4646.239776	2323.623526	4645.255760	2323.131518	<b>39</b>
6	<b>634.319503</b>	317.663390	617.292954	309.150115	616.308938	308.658107	<b>Q</b>	4562.218646	2281.612961	4545.192097	2273.099686	4544.208081	2272.607679	<b>38</b>
7	<b>735.367182</b>	368.187229	<b>718.340633</b>	359.673955	717.356617	359.181947	<b>T</b>	4434.160068	2217.583672	4417.133519	2209.070397	4416.149503	2208.578390	<b>37</b>
8	895.397831	448.202554	878.371282	439.689279	877.387266	439.197271	<b>C</b>	4333.112389	2167.059833	4316.085840	2158.546558	4315.101824	2158.054550	<b>36</b>
9	<b>1023.456409</b>	512.231843	1006.429860	503.718568	<b>1005.445844</b>	<b>503.226560</b>	<b>Q</b>	4173.081740	2087.044508	4156.055191	2078.531233	4155.071175	2078.039226	<b>35</b>
10	<b>1136.540473</b>	<b>568.773875</b>	1119.513924	560.260600	1118.529908	559.768592	<b>I</b>	4045.023162	2023.015219	4027.996613	2014.501944	4027.012597	2014.009936	<b>34</b>
11	<b>1237.588152</b>	<b>619.297714</b>	1220.561603	610.784440	<b>1219.577587</b>	610.292432	<b>T</b>	3931.939098	1966.473187	3914.912549	1957.959912	3913.928533	1957.467904	<b>33</b>
12	1334.640916	667.824096	1317.614367	659.310822	<b>1316.630351</b>	658.818814	<b>P</b>	3830.891419	1915.949347	3813.864870	1907.436073	3812.880854	1906.944065	<b>32</b>
13	<b>1405.678030</b>	703.342653	1388.651481	694.829379	1387.667465	694.337371	<b>A</b>	3733.838655	1867.422965	3716.812106	1858.909691	3715.828090	1858.417683	<b>31</b>
14	<b>1534.720623</b>	767.863949	1517.694074	759.350675	1516.710058	758.858667	<b>E</b>	<b>3662.801541</b>	<b>1831.904408</b>	3645.774992	1823.391134	3644.790976	1822.899126	<b>30</b>
15	<b>1591.742087</b>	<b>796.374681</b>	1574.715538	787.861407	1573.731522	787.369399	<b>G</b>	3533.758948	1767.383112	3516.732399	1758.869837	3515.748383	1758.377829	<b>29</b>
16	1688.794851	844.901063	1671.768302	836.387789	1670.784286	835.895781	<b>P</b>	3476.737484	<b>1738.872380</b>	3459.710935	1730.359105	3458.726919	1729.867097	<b>28</b>
17	1787.863265	894.435271	1770.836716	885.921996	1769.852700	885.429988	<b>V</b>	3379.684720	1690.345998	3362.658171	1681.832723	3361.674155	1681.340715	<b>27</b>
18	1886.931679	943.969478	1869.905130	935.456203	1868.921114	934.964195	<b>V</b>	3280.616306	<b>1640.811791</b>	3263.589757	1632.298516	3262.605741	1631.806508	<b>26</b>
19	1987.979358	994.493317	1970.952809	985.980043	1969.968793	985.488035	<b>T</b>	<b>3181.547892</b>	<b>1591.277584</b>	3164.521343	1582.764309	3163.537327	1582.272301	<b>25</b>
20	2059.016472	1030.011874	2041.989923	1021.498600	2041.005907	1021.006591	<b>A</b>	3080.500213	<b>1540.753744</b>	3063.473664	1532.240470	3062.489648	1531.748462	<b>24</b>
21	2498.241798	1249.624537	2481.215249	1241.111262	2480.231233	1240.619254	<b>Q</b>	3009.463099	1505.235187	2992.436550	1496.721913	2991.452534	<b>1496.229905</b>	<b>23</b>
22	2661.305127	1331.156202	2644.278578	1322.642927	2643.294562	1322.150919	<b>Y</b>	2570.237773	<b>1285.622524</b>	2553.211224	1277.109250	2552.227208	1276.617242	<b>22</b>
23	2776.332070	1388.669673	2759.305521	1380.156398	2758.321505	1379.664390	<b>D</b>	2407.174444	<b>1204.090860</b>	2390.147895	1195.577585	2389.163879	1195.085577	<b>21</b>
24	2936.362719	<b>1468.684997</b>	2919.336170	1460.171723	2918.352154	1459.679715	<b>C</b>	2292.147501	<b>1146.577388</b>	2275.120952	1138.064114	2274.136936	1137.572106	<b>20</b>
25	3049.446783	1525.227029	3032.420234	1516.713755	3031.436218	1516.221747	<b>L</b>	<b>2132.116852</b>	1066.562064	2115.090303	1058.048789	2114.106287	1057.556781	<b>19</b>
26	3106.468247	1553.737761	3089.441698	1545.224487	3088.457682	1544.732479	<b>G</b>	2019.032788	<b>1010.020032</b>	2002.006239	1001.506757	2001.022223	1001.014749	<b>18</b>
27	3266.498896	1633.753086	3249.472347	1625.239811	3248.488331	1624.747803	<b>C</b>	<b>1962.011324</b>	981.509300	1944.984775	972.996025	1944.000759	972.504017	<b>17</b>
28	3365.567310	1683.287293	3348.540761	1674.774018	3347.556745	1674.282010	<b>V</b>	<b>1801.980675</b>	901.493975	1784.954126	892.980701	1783.970110	892.488693	<b>16</b>
29	3502.626222	1751.816749	3485.599673	1743.303474	3484.615657	1742.811466	<b>H</b>	<b>1702.912261</b>	851.959768	1685.885712	843.446494	<b>1684.901696</b>	842.954486	<b>15</b>
30	3599.678986	1800.343131	3582.652437	1791.829856	3581.668421	1791.337848	<b>P</b>	<b>1565.853349</b>	783.430312	1548.826800	774.917038	1547.842784	774.425030	<b>14</b>
31	3712.763050	1856.885163	3695.736501	1848.371888	3694.752485	1847.879880	<b>I</b>	<b>1468.800585</b>	734.903930	1451.774036	726.390656	1450.790020	725.898648	<b>13</b>
32	3799.795078	1900.401177	3782.768529	1891.887902	3781.784513	1891.395894	<b>S</b>	<b>1355.716521</b>	678.361898	1338.689972	669.848624	1337.705956	669.356616	<b>12</b>
33	3900.842757	1950.925016	3883.816208	1942.411742	3882.832192	1941.919734	<b>T</b>	1268.684493	634.845884	1251.657944	626.332610	1250.673928	625.840602	<b>11</b>
34	4028.901335	2014.954305	4011.874786	2006.441031	4010.890770	2005.949023	<b>Q</b>	1167.636814	584.322045	1150.610265	575.808770	1149.626249	575.316762	<b>10</b>
35	4115.933363	2058.470320	4098.906814	2049.957045	4097.922798	2049.465037	<b>S</b>	<b>1039.578236</b>	520.292756	1022.551687	511.779481	1021.567671	<b>511.287473</b>	<b>9</b>
36	4212.986127	2106.996702	4195.959578	2098.483427	4194.975562	2097.991419	<b>P</b>	<b>952.546208</b>	476.776742	935.519659	468.263467	934.535643	467.771459	<b>8</b>
37	4328.013070	2164.510173	4310.986521	2155.996899	4310.002505	2155.504891	<b>D</b>	<b>855.493444</b>	428.250360	838.466895	419.737085	837.482879	419.245077	<b>7</b>
38	4441.097134	2221.052205	4424.070585	2212.538930	4423.086569	2212.046923	<b>L</b>	<b>740.466501</b>	370.736888	723.439952	362.223614	722.455936	361.731606	<b>6</b>
39	4570.139727	2285.573502	4553.113178	2277.060227	4552.129162	2276.568219	<b>E</b>	<b>627.382437</b>	314.194856	610.355888	305.681582	609.371872	305.189574	<b>5</b>
40	4667.192491	2334.099884	4650.165942	2325.586609	4649.181926	2325.094601	<b>P</b>	<b>498.339844</b>	249.673560	481.313295	241.160285			<b>4</b>
41	4780.276555	2390.641915	4763.250006	2382.128641	4762.265990	2381.636633	<b>I</b>	401.287080	201.147178	384.260531	192.633903			<b>3</b>
42	4893.360619	2447.183947	4876.334070	2438.670673	4875.350054	2438.178665	<b>L</b>	288.203016	144.605146	271.176467	136.091871			<b>2</b>
43							<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839			<b>1</b>



NCBI BLAST search of **FSVATQTCQITPAEGPVVTAQYDCLGCVHPISTQSPDLEPILR**  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
58.6	5066.465057	0.004513	<a href="#">FSVATQTCQITPAEGPVVTAQYDCLGCVHPISTQSPDLEPILR</a>
21.8	5066.465057	0.004513	<a href="#">FSVATQTCQITPAEGPVVTAQYDCLGCVHPISTQSPDLEPILR</a>
21.8	5066.465057	0.004513	<a href="#">FSVATQTCQITPAEGPVVTAQYDCLGCVHPISTQSPDLEPILR</a>
21.1	5066.465057	0.004513	<a href="#">FSVATQTCQITPAEGPVVTAQYDCLGCVHPISTQSPDLEPILR</a>



# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **SLEYLDLSFNQIAR**

Found in **LUM\_HUMAN**, Lumican OS=Homo sapiens GN=LUM PE=1 SV=2

Match to Query 38944: 1979.026212 from(660.682680,3+) rtinseconds(2763) index(50466)

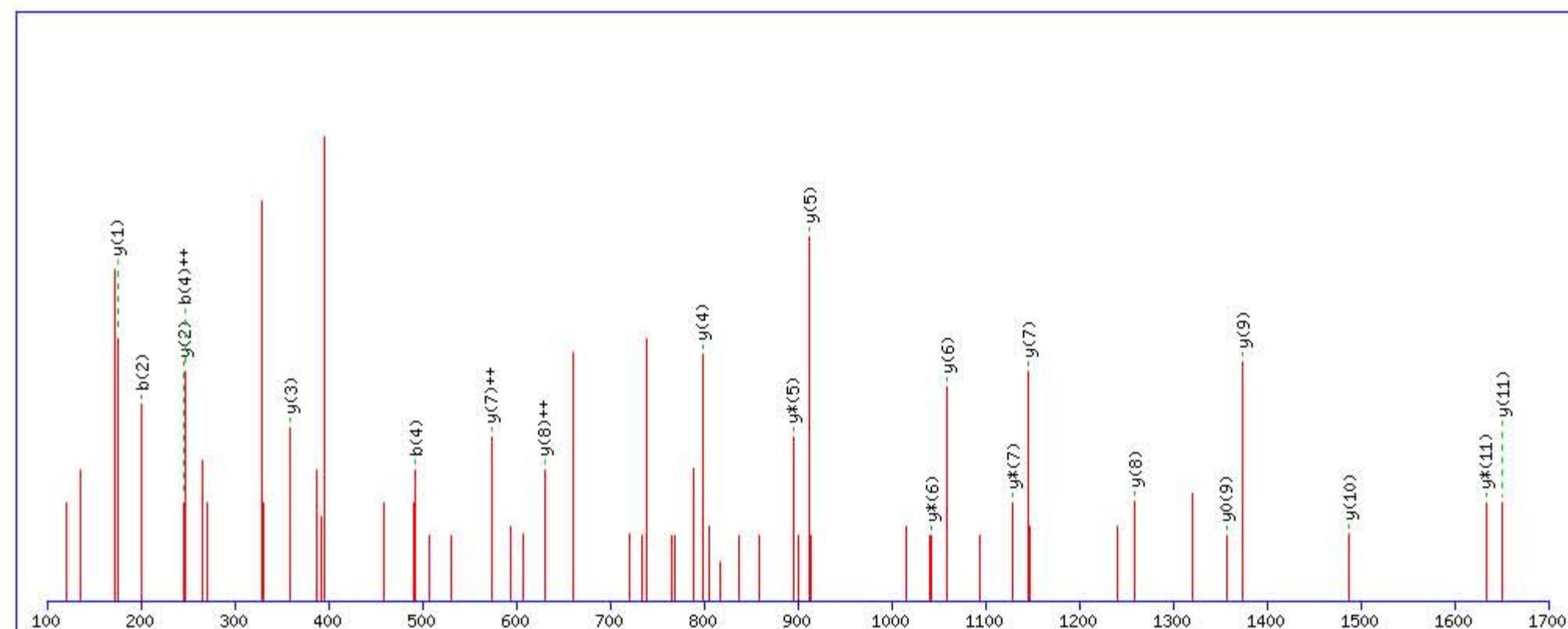
Title: Locus:1.1.1.3673.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1979.018600

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

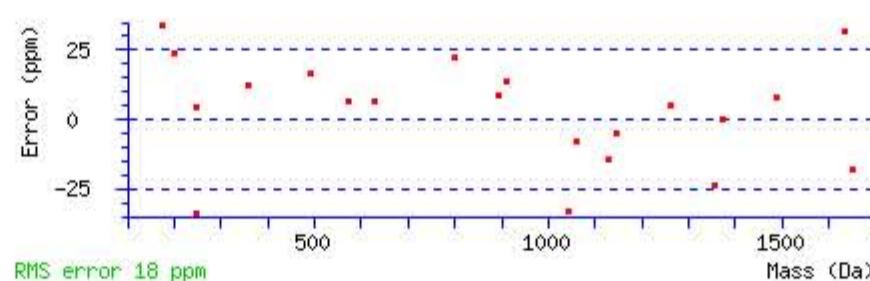
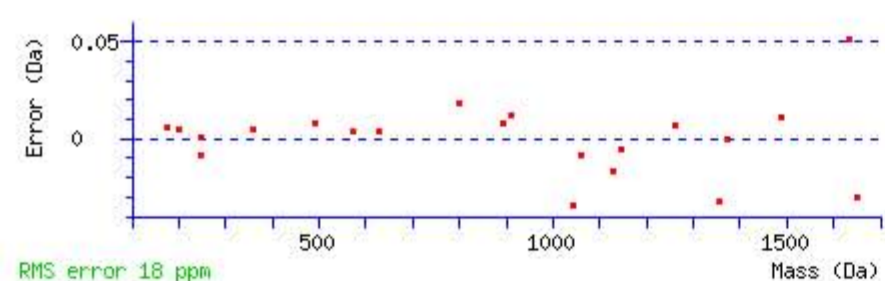
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 68 Expect: 6.9e-007

Matches : 21/126 fragment ions using 38 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							14
2	<b>201.123368</b>	101.065322			183.112803	92.060039	L	1892.993882	947.000579	1875.967333	938.487305	1874.983317	937.995296	13
3	330.165961	165.586618			312.155396	156.581336	E	1779.909818	890.458547	1762.883269	881.945273	1761.899253	881.453265	12
4	<b>493.229290</b>	<b>247.118283</b>			475.218725	238.113001	Y	<b>1650.867225</b>	825.937251	<b>1633.840676</b>	817.423976	1632.856660	816.931968	11
5	606.313354	303.660315			588.302789	294.655033	L	<b>1487.803896</b>	744.405586	1470.777347	735.892312	1469.793331	735.400304	10
6	721.340297	361.173787			703.329732	352.168504	D	<b>1374.719832</b>	687.863554	1357.693283	679.350280	<b>1356.709267</b>	678.858272	9
7	834.424361	417.715819			816.413796	408.710536	L	<b>1259.692889</b>	<b>630.350083</b>	1242.666340	621.836808	1241.682324	621.344800	8
8	921.456389	461.231833			903.445824	452.226550	S	<b>1146.608825</b>	<b>573.808051</b>	<b>1129.582276</b>	565.294776	1128.598260	564.802768	7
9	1068.524803	534.766040			1050.514238	525.760757	F	<b>1059.576797</b>	530.292037	<b>1042.550248</b>	521.778762			6
10	1182.567730	591.787503	1165.541181	583.274229	1164.557165	582.782220	N	<b>912.508383</b>	456.757830	<b>895.481834</b>	448.244555			5
11	1621.793056	811.400166	1604.766507	802.886892	1603.782491	802.394884	Q	<b>798.465456</b>	399.736366	781.438907	391.223092			4
12	1734.877120	867.942198	1717.850571	859.428924	1716.866555	858.936916	I	<b>359.240130</b>	180.123703	342.213581	171.610428			3
13	1805.914234	903.460755	1788.887685	894.947481	1787.903669	894.455473	A	<b>246.156066</b>	123.581671	229.129517	115.068396			2
14							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [SLEYLDLSFNQIAR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
67.5	1979.018600	0.007612	<a href="#">SLEYLDLSFNQIAR</a>
1.8	1979.025787	0.000425	<a href="#">HQNLQEKLAEEMLGLAR</a>

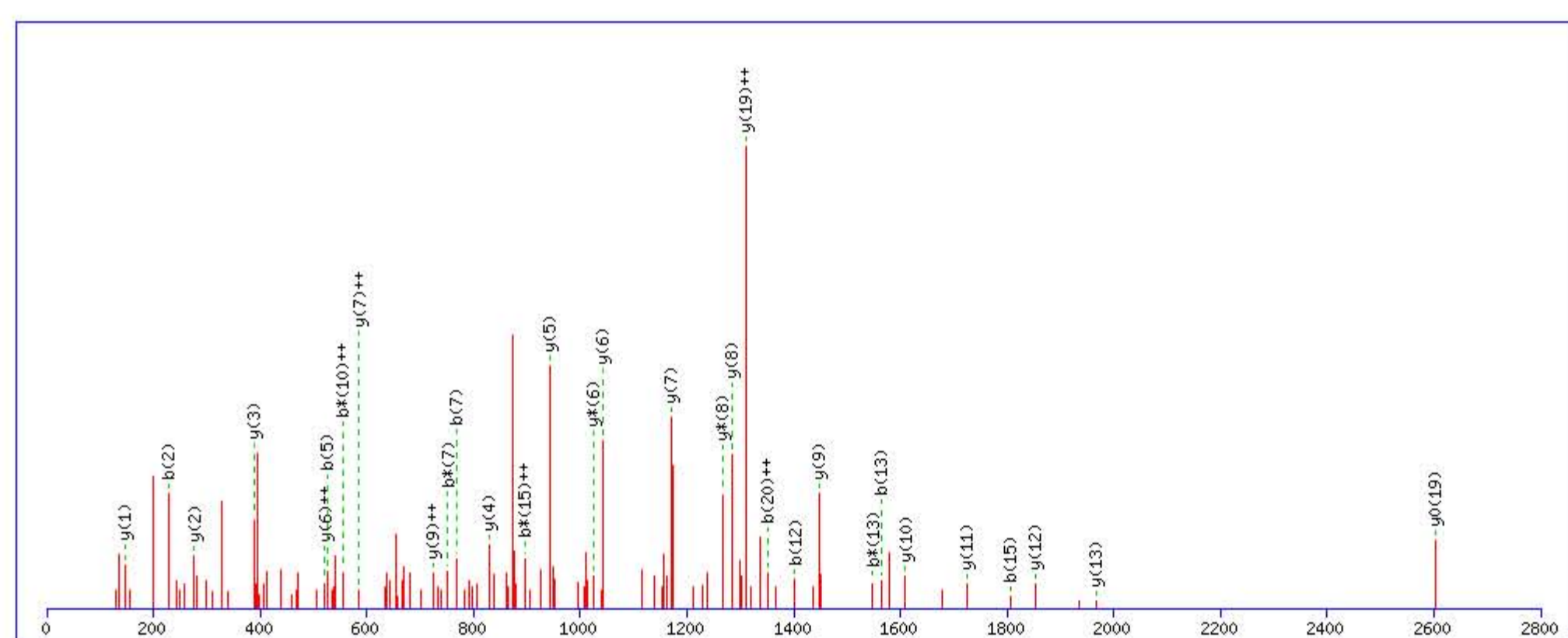
Mascot: <http://www.matrixscience.com/>

**Peptide View**

MS/MS Fragmentation of **NIPTVNENLENYYLEVNQLEK**  
 Found in **LUM\_HUMAN**, Lumican OS=Homo sapiens GN=LUM PE=1 SV=2

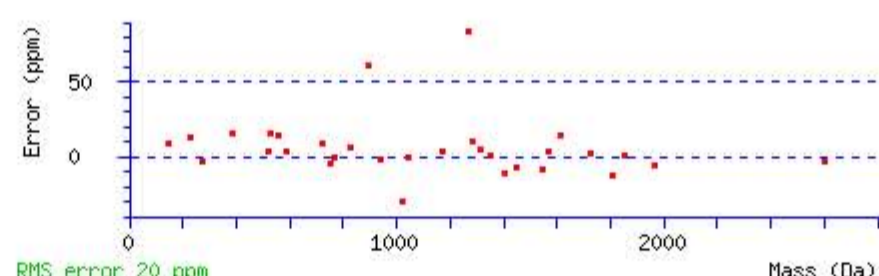
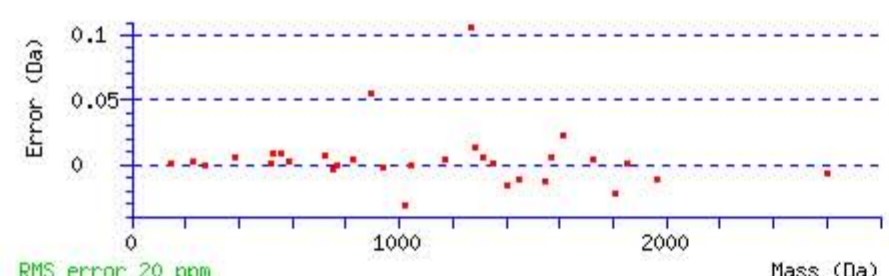
Match to Query 52172: 2846.425182 from(949.815670,3+) rtinseconds(2694) index(50015)  
 Title: Locus:1.1.1.3649.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from 0 to 2800 Da Full range  
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2846.415985  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q18 : Biotin:Thermo-21345 (Q)  
 Ions Score: 58 Expect: 4.6e-005  
 Matches : 31/232 fragment ions using 66 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							21
2	<b>228.134267</b>	114.570771	211.107718	106.057497			I	2733.380395	1367.193835	2716.353846	1358.680561	2715.369830	1358.188553	20
3	325.187031	163.097153	308.160482	154.583879			P	2620.296331	<b>1310.651803</b>	2603.269782	1302.138529	<b>2602.285766</b>	1301.646521	19
4	426.234710	213.620993	409.208161	205.107719	408.224145	204.615711	T	2523.243567	1262.125421	2506.217018	1253.612147	2505.233002	1253.120139	18
5	<b>525.303124</b>	263.155200	508.276575	254.641926	507.292559	254.149918	V	2422.195888	1211.601582	2405.169339	1203.088307	2404.185323	1202.596299	17
6	639.346051	320.176664	622.319502	311.663389	621.335486	311.171381	N	2323.127474	1162.067375	2306.100925	1153.554100	2305.116909	1153.062092	16
7	<b>768.388644</b>	384.697960	<b>751.362095</b>	376.184686	750.378079	375.692678	E	2209.084547	1105.045911	2192.057998	1096.532637	2191.073982	1096.040629	15
8	882.431571	441.719424	865.405022	433.206149	864.421006	432.714141	N	2080.041954	1040.524615	2063.015405	1032.011340	2062.031389	1031.519332	14
9	995.515635	498.261456	978.489086	489.748181	977.505070	489.256173	L	<b>1965.999027</b>	983.503152	1948.972478	974.989877	1947.988462	974.497869	13
10	1124.558228	562.782752	1107.531679	<b>554.269478</b>	1106.547663	553.777470	E	<b>1852.914963</b>	926.961120	1835.888414	918.447845	1834.904398	917.955837	12
11	1238.601155	619.804216	1221.574606	611.290941	1220.590590	610.798933	N	<b>1723.872370</b>	862.439823	1706.845821	853.926549	1705.861805	853.434541	11
12	<b>1401.664484</b>	701.335880	1384.637935	692.822606	1383.653919	692.330598	Y	<b>1609.829443</b>	805.418360	1592.802894	796.905085	1591.818878	796.413077	10
13	<b>1564.727813</b>	782.867545	<b>1547.701264</b>	774.354270	1546.717248	773.862262	Y	<b>1446.766114</b>	<b>723.886695</b>	1429.739565	715.373421	1428.755549	714.881413	9
14	1677.811877	839.409577	1660.785328	830.896302	1659.801312	830.404294	L	<b>1283.702785</b>	642.355031	<b>1266.676236</b>	633.841756	1265.692220	633.349748	8
15	<b>1806.854470</b>	903.930873	1789.827921	<b>895.417599</b>	1788.843905	894.925591	E	<b>1170.618721</b>	<b>585.812999</b>	1153.592172	577.299724	1152.608156	576.807716	7
16	1905.922884	953.465080	1888.896335	944.951806	1887.912319	944.459798	V	<b>1041.576128</b>	<b>521.291702</b>	<b>1024.549579</b>	512.778428	1023.565563	512.286420	6
17	2019.965811	1010.486544	2002.939262	1001.973269	2001.955246	1001.481261	N	<b>942.507714</b>	471.757495	925.481165	463.244221	924.497149	462.752213	5
18	2459.191137	1230.099206	2442.164588	1221.585932	2441.180572	1221.093924	Q	<b>828.464787</b>	414.736032	811.438238	406.222757	810.454222	405.730749	4
19	2572.275201	1286.641238	2555.248652	1278.127964	2554.264636	1277.635956	L	<b>389.239461</b>	195.123369	372.212912	186.610094	371.228896	186.118086	3
20	2701.317794	<b>1351.162535</b>	2684.291245	1342.649260	2683.307229	1342.157252	E	<b>276.155397</b>	138.581337	259.128848	130.068062	258.144832	129.576054	2
21							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [NIPTVNENLENYYLEVNQLEK](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
57.7	2846.415985	0.009197	<a href="#">NIPTVNENLENYYLEVNQLEK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VECSDNLFTQR**

Found in **MASP1\_HUMAN**, Mannan-binding lectin serine protease 1 OS=Homo sapiens GN=MASP1 PE=1 SV=3

Match to Query 33272: 1678.780212 from(560.600680,3+) rtinseconds(2115) index(46685)

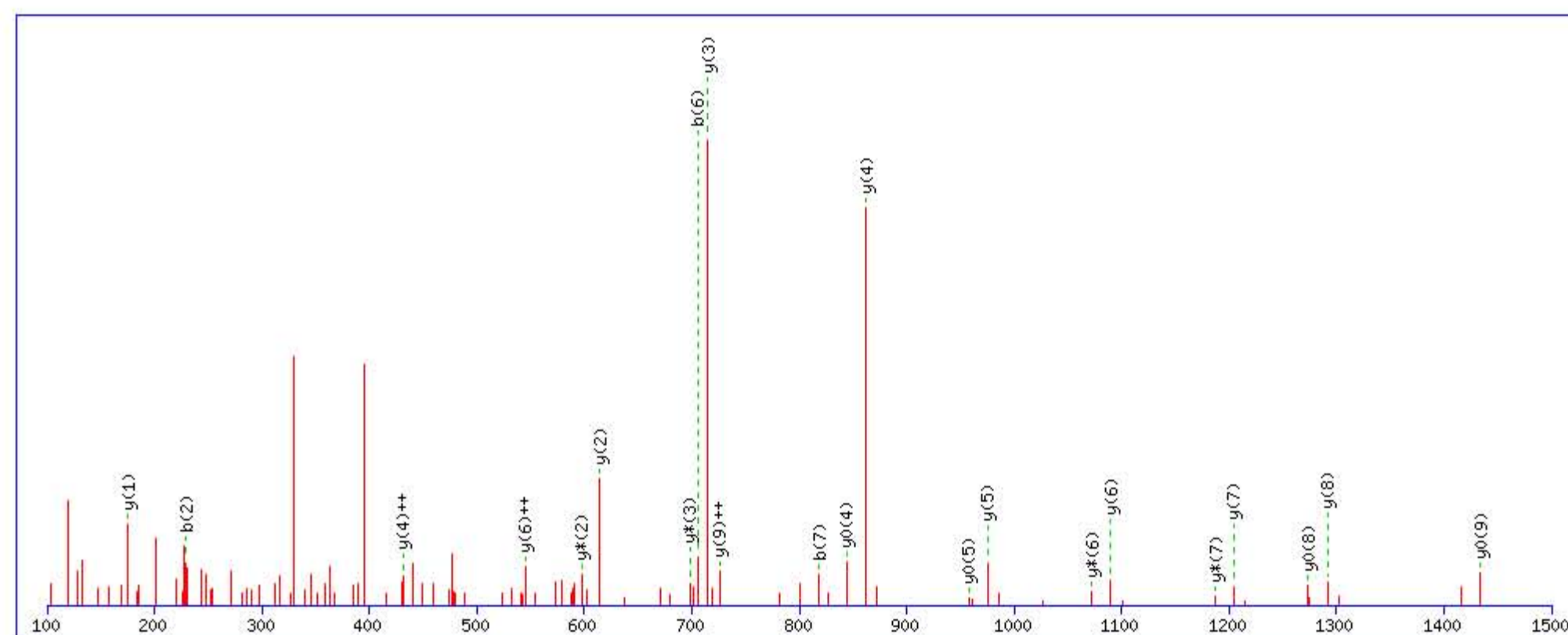
Title: Locus:1.1.1.3449.3 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1678.780716

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

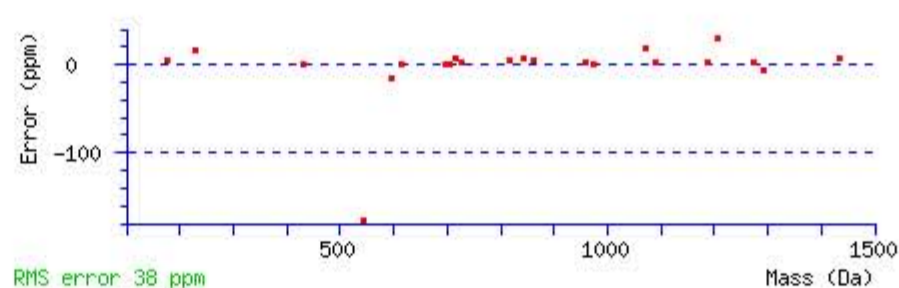
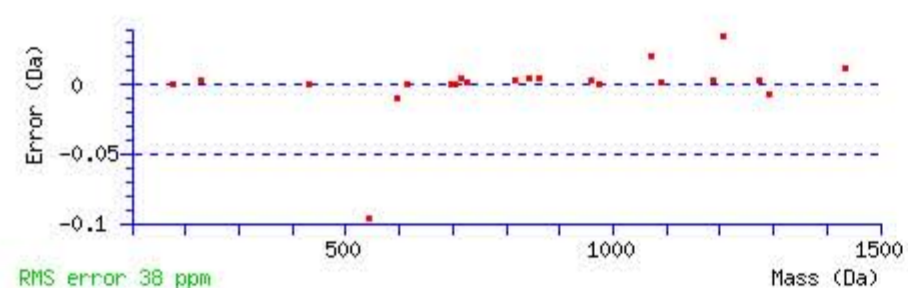
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 47 Expect: 7.4e-005

Matches : 22/104 fragment ions using 36 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							11
2	<b>229.118283</b>	115.062780			211.107718	106.057497	E	1580.719575	790.863426	1563.693026	782.350151	1562.709010	781.858143	10
3	389.148932	195.078104			371.138367	186.072822	C	1451.676982	<b>726.342129</b>	1434.650433	717.828855	<b>1433.666417</b>	717.336847	9
4	476.180960	238.594118			458.170395	229.588835	S	<b>1291.646333</b>	646.326805	1274.619784	637.813530	<b>1273.635768</b>	637.321522	8
5	591.207903	296.107590			573.197338	287.102307	D	<b>1204.614305</b>	602.810791	<b>1187.587756</b>	594.297516	1186.603740	593.805508	7
6	<b>705.250830</b>	353.129053	688.224281	344.615778	687.240265	344.123770	N	<b>1089.587362</b>	<b>545.297319</b>	<b>1072.560813</b>	536.784045	1071.576797	536.292037	6
7	<b>818.334894</b>	409.671085	801.308345	401.157810	800.324329	400.665802	L	<b>975.544435</b>	488.275856	958.517886	479.762581	<b>957.533870</b>	479.270573	5
8	965.403308	483.205292	948.376759	474.692017	947.392743	474.200009	F	<b>862.460371</b>	<b>431.733824</b>	845.433822	423.220549	<b>844.449806</b>	422.728541	4
9	1066.450987	533.729131	1049.424438	525.215857	1048.440422	524.723849	T	<b>715.391957</b>	358.199617	<b>698.365408</b>	349.686342	697.381392	349.194334	3
10	1505.676313	753.341795	1488.649764	744.828520	1487.665748	744.336512	Q	<b>614.344278</b>	307.675777	<b>597.317729</b>	299.162503			2
11							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VECSDNLFTQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
47.0	1678.780716	-0.000504	<a href="#">VECSDNLFTQR</a>
3.0	1678.769455	0.010757	<a href="#">VWDKEGEMEVAMQK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **FPETLMEIEIPIVDHSTCQK**

Found in **MASP1\_HUMAN**, Mannan-binding lectin serine protease 1 OS=Homo sapiens GN=MASP1 PE=1 SV=3

Match to Query 50346: 2697.328992 from(900.116940,3+) rtinseconds(2770) index(50523)

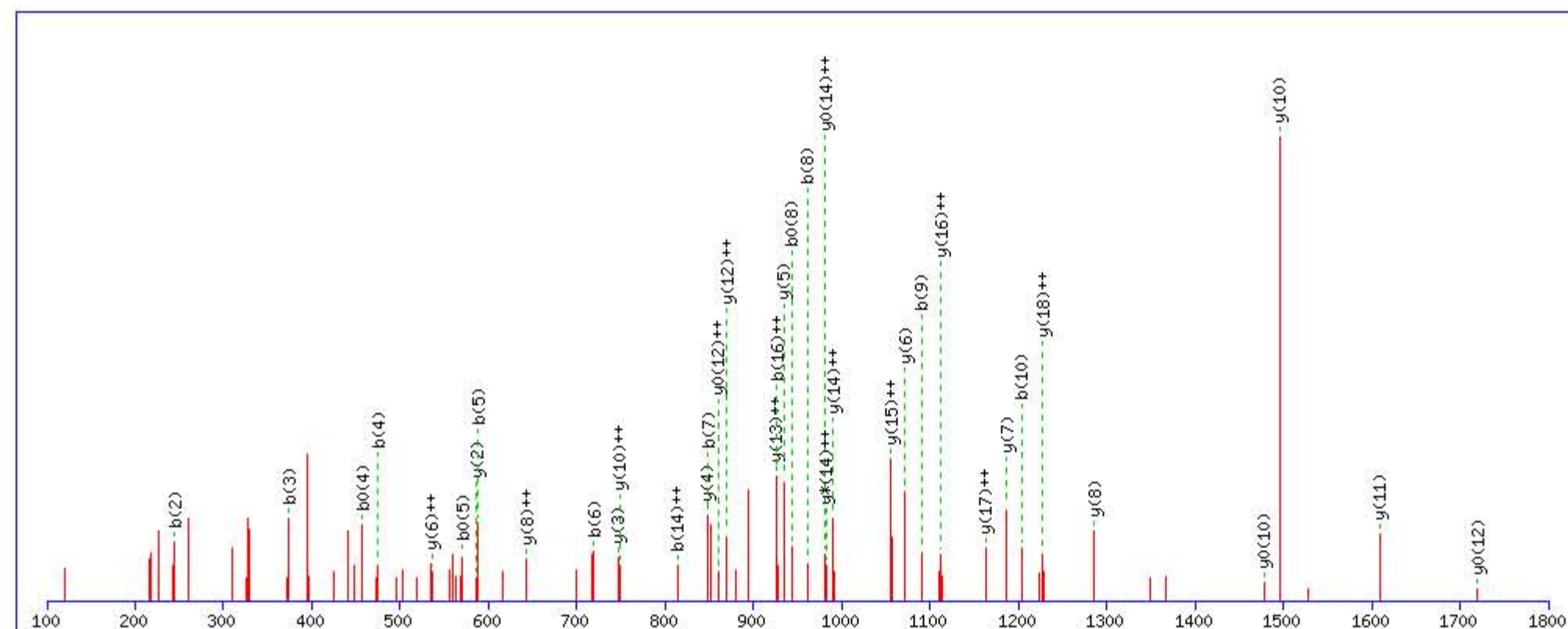
Title: Locus:1.1.1.3675.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2697.321609

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

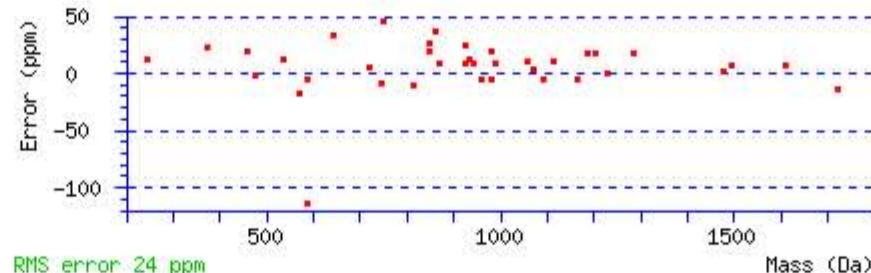
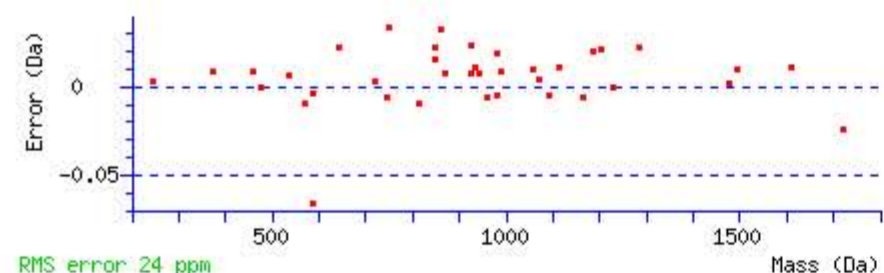
Variable modifications:

Q19 : Biotin:Thermo-21345 (Q)

Ions Score: 51 Expect: 0.00021

Matches : 38/182 fragment ions using 84 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							20
2	<b>245.128454</b>	123.067865					P	2551.260482	1276.133879	2534.233933	1267.620604	2533.249917	1267.128596	19
3	<b>374.171047</b>	187.589161			356.160482	178.583879	E	2454.207718	<b>1227.607497</b>	2437.181169	1219.094222	2436.197153	1218.602214	18
4	<b>475.218726</b>	238.113001			<b>457.208161</b>	229.107719	T	2325.165125	<b>1163.086200</b>	2308.138576	1154.572926	2307.154560	1154.080918	17
5	<b>588.302790</b>	294.655033			<b>570.292225</b>	285.649751	L	2224.117446	<b>1112.562361</b>	2207.090897	1104.049086	2206.106881	1103.557078	16
6	<b>719.343275</b>	360.175276			701.332710	351.169993	M	2111.033382	<b>1056.020329</b>	2094.006833	1047.507054	2093.022817	1047.015046	15
7	<b>848.385868</b>	424.696572			830.375303	415.691290	E	1979.992897	<b>990.500087</b>	1962.966348	<b>981.986812</b>	1961.982332	<b>981.494804</b>	14
8	<b>961.469932</b>	481.238604			<b>943.459367</b>	472.233322	I	1850.950304	<b>925.978790</b>	1833.923755	917.465516	1832.939739	916.973508	13
9	<b>1090.512525</b>	545.759901			1072.501960	536.754618	E	1737.866240	<b>869.436758</b>	1720.839691	860.923484	<b>1719.855675</b>	<b>860.431476</b>	12
10	<b>1203.596589</b>	602.301933			1185.586024	593.296650	I	<b>1608.823647</b>	804.915462	1591.797098	796.402187	1590.813082	795.910179	11
11	1300.649353	650.828315			1282.638788	641.823032	P	<b>1495.739583</b>	<b>748.373430</b>	1478.713034	739.860155	<b>1477.729018</b>	739.368147	10
12	1413.733417	707.370346			1395.722852	698.365064	I	1398.686819	699.847048	1381.660270	691.333773	1380.676254	690.841765	9
13	1512.801831	756.904554			1494.791266	747.899271	V	<b>1285.602755</b>	<b>643.305016</b>	1268.576206	634.791741	1267.592190	634.299733	8
14	1627.828774	<b>814.418025</b>			1609.818209	805.412743	D	<b>1186.534341</b>	593.770809	1169.507792	585.257534	1168.523776	584.765526	7
15	1764.887686	882.947481			1746.877121	873.942199	H	<b>1071.507398</b>	<b>536.257337</b>	1054.480849	527.744063	1053.496833	527.252055	6
16	1851.919714	<b>926.463495</b>			1833.909149	917.458213	S	<b>934.448486</b>	467.727881	917.421937	459.214607	916.437921	458.722599	5
17	1952.967393	976.987335			1934.956828	967.982052	T	<b>847.416458</b>	424.211867	830.389909	415.698593	829.405893	415.206585	4
18	2112.998042	1057.002659			2094.987477	1047.997376	C	<b>746.368779</b>	373.688028	729.342230	365.174753			3
19	2552.223368	1276.615322	2535.196819	1268.102047	2534.212803	1267.610039	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
20							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **FPETLMEIEIPIVDHSTCQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
51.3	2697.321609	0.007383	<a href="#">FPETLMEIEIPIVDHSTCQK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **APEPISTQSHSVLILFHSDNSGENR**

Found in **MASPI\_HUMAN**, Mannan-binding lectin serine protease 1 OS=Homo sapiens GN=MASPI PE=1 SV=3

Match to Query 54365: 3045.503456 from(762.383140,4+) rtinseconds(2289) index(47792)

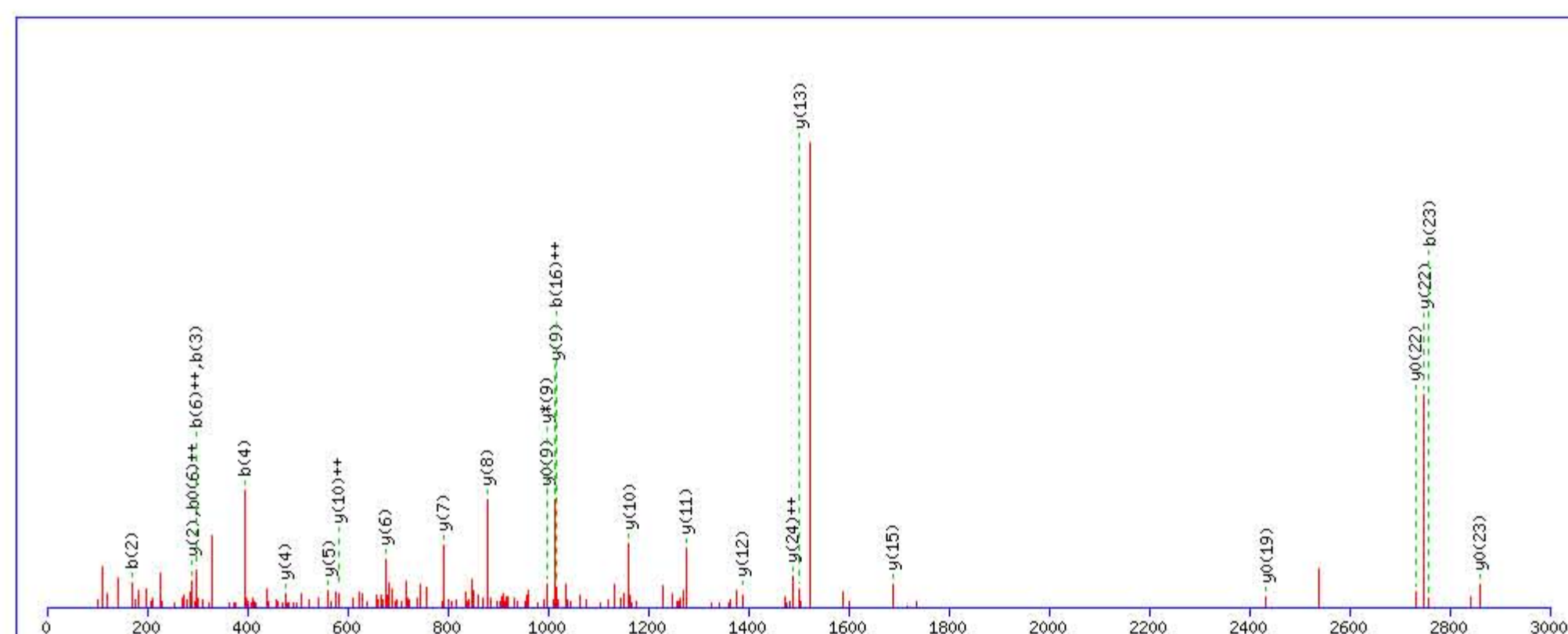
Title: Locus:1.1.1.3509.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 0 to 3000 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3045.497803

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

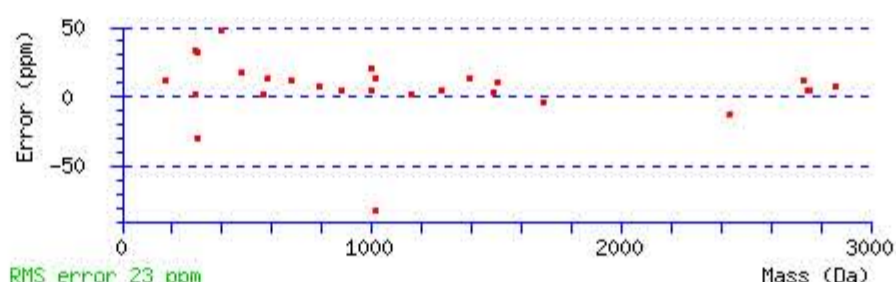
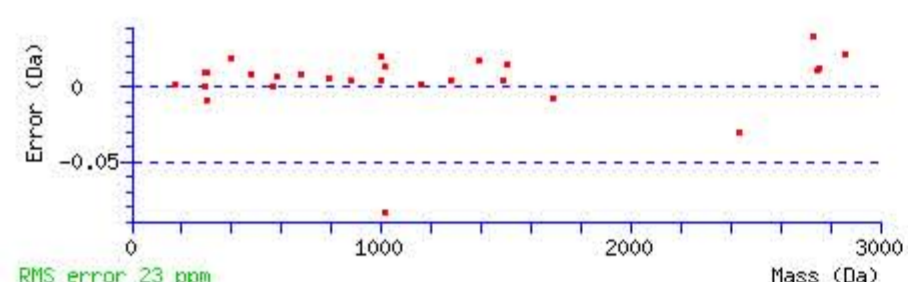
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 60 Expect: 2.9e-005

Matches : 27/266 fragment ions using 57 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							25
2	<b>169.097154</b>	85.052215					P	2975.467980	<b>1488.237628</b>	2958.441431	1479.724353	2957.457415	1479.232345	24
3	<b>298.139747</b>	149.573512			280.129182	140.568229	E	2878.415216	1439.711246	2861.388667	1431.197971	<b>2860.404651</b>	1430.705963	23
4	<b>395.192511</b>	198.099894			377.181946	189.094611	P	<b>2749.372623</b>	1375.189949	2732.346074	1366.676675	<b>2731.362058</b>	1366.184667	22
5	508.276575	254.641926			490.266010	245.636643	I	2652.319859	1326.663567	2635.293310	1318.150293	2634.309294	1317.658285	21
6	595.308603	<b>298.157940</b>			577.298038	<b>289.152657</b>	S	2539.235795	1270.121535	2522.209246	1261.608261	2521.225230	1261.116253	20
7	696.356282	348.681779			678.345717	339.676497	T	2452.203767	1226.605521	2435.177218	1218.092247	<b>2434.193202</b>	1217.600239	19
8	1135.581608	568.294442	1118.555059	559.781168	1117.571043	559.289160	Q	2351.156088	1176.081682	2334.129539	1167.568407	2333.145523	1167.076399	18
9	1222.613636	611.810456	1205.587087	603.297182	1204.603071	602.805174	S	1911.930762	956.469019	1894.904213	947.955745	1893.920197	947.463737	17
10	1359.672548	680.339912	1342.645999	671.826638	1341.661983	671.334630	H	1824.898734	912.953005	1807.872185	904.439731	1806.888169	903.947723	16
11	1446.704576	723.855926	1429.678027	715.342652	1428.694011	714.850644	S	<b>1687.839822</b>	844.423549	1670.813273	835.910275	1669.829257	835.418267	15
12	1545.772990	773.390133	1528.746441	764.876859	1527.762425	764.384851	V	1600.807794	800.907535	1583.781245	792.394261	1582.797229	791.902253	14
13	1658.857054	829.932165	1641.830505	821.418891	1640.846489	820.926883	L	<b>1501.739380</b>	751.373328	1484.712831	742.860054	1483.728815	742.368045	13
14	1771.941118	886.474197	1754.914569	877.960923	1753.930553	877.468915	I	<b>1388.655316</b>	694.831296	1371.628767	686.318022	1370.644751	685.826014	12
15	1885.025182	943.016229	1867.998633	934.502955	1867.014617	934.010947	L	<b>1275.571252</b>	638.289264	1258.544703	629.775990	1257.560687	629.283982	11
16	2032.093596	<b>1016.550436</b>	2015.067047	1008.037162	2014.083031	1007.545154	F	<b>1162.487188</b>	<b>581.747232</b>	1145.460639	573.233958	1144.476623	572.741950	10
17	2169.152508	1085.079892	2152.125959	1076.566617	2151.141943	1076.074610	H	<b>1015.418774</b>	508.213025	<b>998.392225</b>	499.699751	<b>997.408209</b>	499.207743	9
18	2256.184536	1128.595906	2239.157987	1120.082631	2238.173971	1119.590624	S	<b>878.359862</b>	439.683569	861.333313	431.170295	860.349297	430.678287	8
19	2371.211479	1186.109377	2354.184930	1177.596103	2353.200914	1177.104095	D	<b>791.327834</b>	396.167555	774.301285	387.654280	773.317269	387.162272	7
20	2485.254406	1243.130841	2468.227857	1234.617566	2467.243841	1234.125558	N	<b>676.300891</b>	338.654084	659.274342	330.140809	658.290326	329.648801	6
21	2572.286434	1286.646855	2555.259885	1278.133580	2554.275869	1277.641572	S	<b>562.257964</b>	281.632620	545.231415	273.119346	544.247399	272.627338	5
22	2629.307898	1315.157587	2612.281349	1306.644312	2611.297333	1306.152304	G	<b>475.225936</b>	238.116606	458.199387	229.603331	457.215371	229.111323	4
23	<b>2758.350491</b>	1379.678884	2741.323942	1371.165609	2740.339926	1370.673601	E	418.204472	209.605874	401.177923	201.092600	400.193907	200.600592	3
24	2872.393418	1436.700347	2855.366869	1428.187072	2854.382853	1427.695064	N	<b>289.161879</b>	145.084577	272.135330	136.571303			2
25							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [APEPISTQSHSVLILFHSDNSGENR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
59.9	3045.497803	0.005653	<a href="#">APEPISTQSHSVLILFHSDNSGENR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VLSIAQAHSPAFSCEQVR**

Found in **CD14\_HUMAN**, Monocyte differentiation antigen CD14 OS=Homo sapiens GN=CD14 PE=1 SV=2

Match to Query 45272: 2310.156132 from(771.059320,3+) rtinseconds(2001) index(31897)

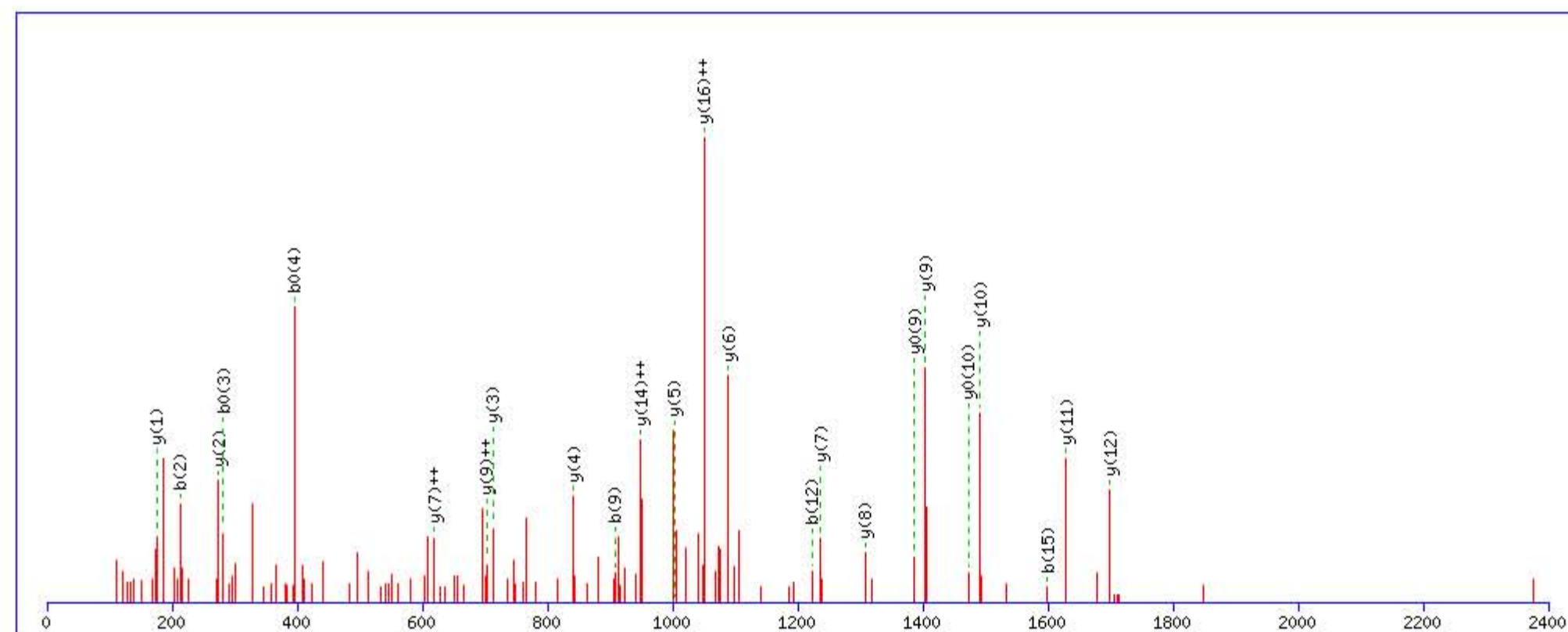
Title: Locus:1.1.1.3360.19 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2310.161285

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

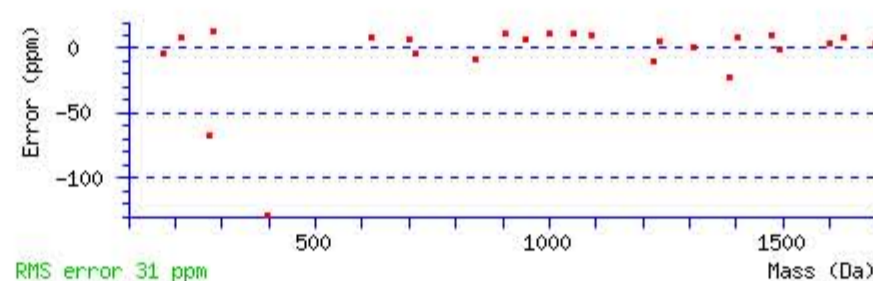
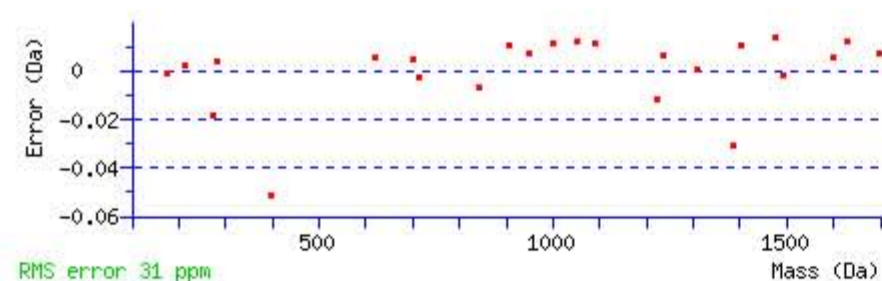
Variable modifications:

Q16 : Biotin:Thermo-21345 (Q)

Ions Score: 64 Expect: 1.1e-005

Matches : 24/184 fragment ions using 50 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							18
2	<b>213.159754</b>	107.083515					L	2212.100156	1106.553716	2195.073607	1098.040441	2194.089591	1097.548433	17
3	300.191782	150.599529			<b>282.181217</b>	141.594247	S	2099.016092	<b>1050.011684</b>	2081.989543	1041.498409	2081.005527	1041.006401	16
4	413.275846	207.141561			<b>395.265281</b>	198.136279	I	2011.984064	1006.495670	1994.957515	997.982396	1993.973499	997.490388	15
5	484.312960	242.660118			466.302395	233.654836	A	1898.900000	<b>949.953638</b>	1881.873451	941.440364	1880.889435	940.948356	14
6	612.371538	306.689407	595.344989	298.176133	594.360973	297.684125	Q	1827.862886	914.435081	1810.836337	905.921807	1809.852321	905.429799	13
7	683.408652	342.207964	666.382103	333.694690	665.398087	333.202682	A	<b>1699.804308</b>	850.405792	1682.777759	841.892518	1681.793743	841.400510	12
8	820.467564	410.737420	803.441015	402.224146	802.456999	401.732138	H	<b>1628.767194</b>	814.887235	1611.740645	806.373961	1610.756629	805.881953	11
9	<b>907.499592</b>	454.253434	890.473043	445.740160	889.489027	445.248152	S	<b>1491.708282</b>	746.357779	1474.681733	737.844505	<b>1473.697717</b>	737.352497	10
10	1004.552356	502.779816	987.525807	494.266542	986.541791	493.774534	P	<b>1404.676254</b>	<b>702.841765</b>	1387.649705	694.328491	<b>1386.665689</b>	693.836483	9
11	1075.589470	538.298373	1058.562921	529.785099	1057.578905	529.293091	A	<b>1307.623490</b>	654.315383	1290.596941	645.802109	1289.612925	645.310101	8
12	<b>1222.657884</b>	611.832580	1205.631335	603.319306	1204.647319	602.827298	F	<b>1236.586376</b>	<b>618.796826</b>	1219.559827	610.283552	1218.575811	609.791544	7
13	1309.689912	655.348594	1292.663363	646.835320	1291.679347	646.343312	S	<b>1089.517962</b>	545.262619	1072.491413	536.749345	1071.507397	536.257337	6
14	1469.720561	735.363919	1452.694012	726.850644	1451.709996	726.358636	C	<b>1002.485934</b>	501.746605	985.459385	493.233331	984.475369	492.741323	5
15	<b>1598.763154</b>	799.885215	1581.736605	791.371941	1580.752589	790.879933	E	<b>842.455285</b>	421.731281	825.428736	413.218006	824.444720	412.725998	4
16	2037.988480	1019.497878	2020.961931	1010.984604	2019.977915	1010.492596	Q	<b>713.412692</b>	357.209984	696.386143	348.696710			3
17	2137.056894	1069.032085	2120.030345	1060.518811	2119.046329	1060.026803	V	<b>274.187366</b>	137.597321	257.160817	129.084046			2
18							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [VLSIAQAHSPAFSCEQVR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
64.1	2310.161285	-0.005153	<a href="#">VLSIAQAHSPAFSCEQVR</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **GSQTQSHPD LGTEGCWDQLSAPR**

Found in **PGRP2\_HUMAN**, N-acetylmuramoyl-L-alanine amidase OS=Homo sapiens GN=PGLYRP2 PE=1 SV=1

Match to Query 52010: 2837.298702 from(946.773510,3+) rtinseconds(2073) index(60976)

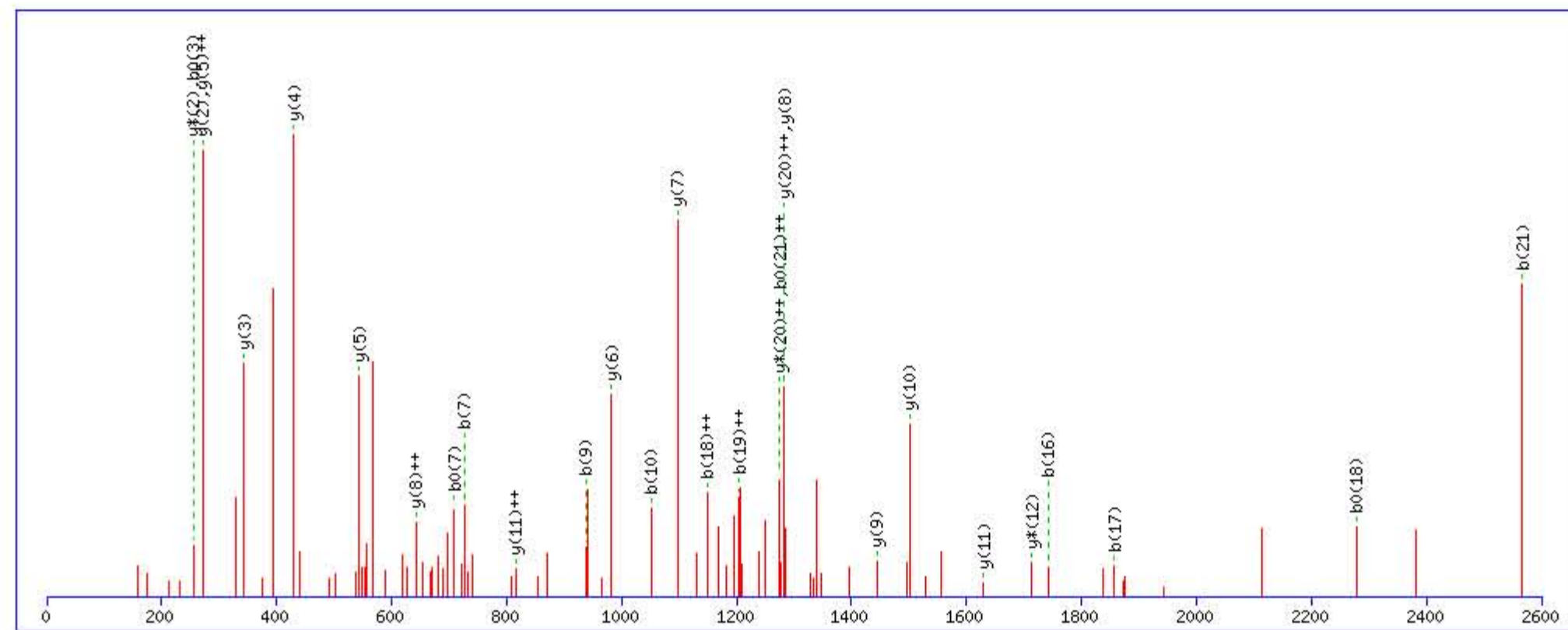
Title: Locus:1.1.1.1633.10 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 0 to 2600 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2837.286133

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

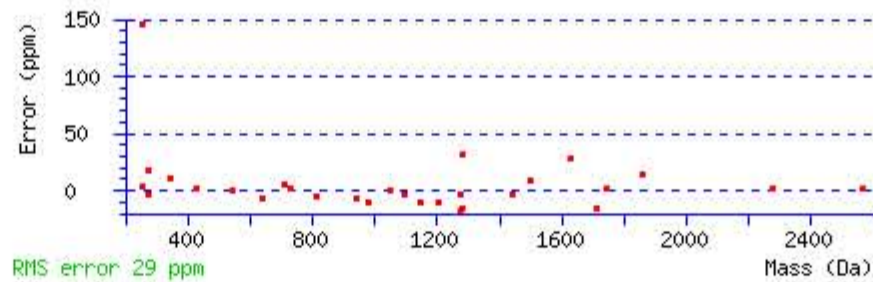
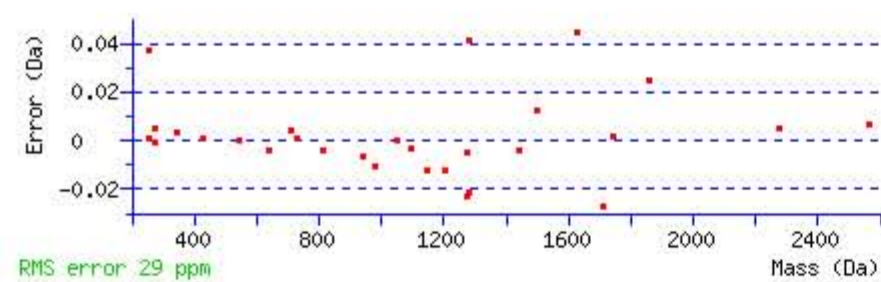
Variable modifications:

Q18 : Biotin:Thermo-21345 (Q)

Ions Score: 57 Expect: 2.4e-005

Matches : 29/252 fragment ions using 39 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							23
2	145.060768	73.034022			127.050203	64.028740	S	2781.271927	1391.139601	2764.245378	1382.626327	2763.261362	1382.134319	22
3	273.119346	137.063311	256.092797	128.550037	<b>255.108781</b>	128.058029	Q	2694.239899	1347.623587	2677.213350	1339.110313	2676.229334	1338.618305	21
4	374.167025	187.587151	357.140476	179.073876	356.156460	178.581868	T	2566.181321	<b>1283.594298</b>	2549.154772	<b>1275.081024</b>	2548.170756	1274.589016	20
5	502.225603	251.616440	485.199054	243.103165	484.215038	242.611157	Q	2465.133642	1233.070459	2448.107093	1224.557184	2447.123077	1224.065176	19
6	589.257631	295.132454	572.231082	286.619179	571.247066	286.127171	S	2337.075064	1169.041170	2320.048515	1160.527895	2319.064499	1160.035887	18
7	<b>726.316543</b>	363.661910	709.289994	355.148635	<b>708.305978</b>	354.656627	H	2250.043036	1125.525156	2233.016487	1117.011881	2232.032471	1116.519873	17
8	823.369307	412.188292	806.342758	403.675017	805.358742	403.183009	P	2112.984124	1056.995700	2095.957575	1048.482425	2094.973559	1047.990417	16
9	<b>938.396250</b>	469.701763	921.369701	461.188489	920.385685	460.696481	D	2015.931360	1008.469318	1998.904811	999.956044	1997.920795	999.464036	15
10	<b>1051.480314</b>	526.243795	1034.453765	517.730521	1033.469749	517.238512	L	1900.904417	950.955847	1883.877868	942.442572	1882.893852	941.950564	14
11	1108.501778	554.754527	1091.475229	546.241252	1090.491213	545.749244	G	1787.820353	894.413815	1770.793804	885.900540	1769.809788	885.408532	13
12	1209.549457	605.278366	1192.522908	596.765092	1191.538892	596.273084	T	1730.798889	865.903083	<b>1713.772340</b>	857.389808	1712.788324	856.897800	12
13	1338.592050	669.799663	1321.565501	661.286389	1320.581485	660.794380	E	<b>1629.751210</b>	<b>815.379243</b>	1612.724661	806.865969	1611.740645	806.373961	11
14	1395.613514	698.310395	1378.586965	689.797121	1377.602949	689.305112	G	<b>1500.708617</b>	750.857947	1483.682068	742.344672	1482.698052	741.852664	10
15	1555.644163	778.325719	1538.617614	769.812445	1537.633598	769.320437	C	<b>1443.687153</b>	722.347215	1426.660604	713.833940	1425.676588	713.341932	9
16	<b>1741.723476</b>	871.365376	1724.696927	862.852102	1723.712911	862.360093	W	<b>1283.656504</b>	<b>642.331890</b>	1266.629955	633.818616	1265.645939	633.326608	8
17	<b>1856.750419</b>	928.878848	1839.723870	920.365573	1838.739854	919.873565	D	<b>1097.577191</b>	549.292234	1080.550642	540.778959	1079.566626	540.286951	7
18	2295.975745	<b>1148.491510</b>	2278.949196	1139.978236	<b>2277.965180</b>	1139.486228	Q	<b>982.550248</b>	491.778762	965.523699	483.265488	964.539683	482.773480	6
19	2409.059809	<b>1205.033542</b>	2392.033260	1196.520268	2391.049244	1196.028260	L	<b>543.324922</b>	<b>272.166099</b>	526.298373	263.652825	525.314357	263.160817	5
20	2496.091837	1248.549556	2479.065288	1240.036282	2478.081272	1239.544274	S	<b>430.240858</b>	215.624067	413.214309	207.110793	412.230293	206.618785	4
21	<b>2567.128951</b>	1284.068114	2550.102402	1275.554839	2549.118386	1275.062831	A	<b>343.208830</b>	172.108053	326.182281	163.594779			3
22	2664.181715	1332.594496	2647.155166	1324.081221	2646.171150	1323.589213	P	<b>272.171716</b>	136.589496	<b>255.145167</b>	128.076221			2
23							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [GSQTQSHPD LGTEGCWDQLSAPR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
56.8	2837.286133	0.012569	<a href="#">GSQTQSHPD LGTEGCWDQLSAPR</a>
1.8	2837.286133	0.012569	<a href="#">GSQTQSHPD LGTEGCWDQLSAPR</a>
1.6	2837.286133	0.012569	<a href="#">GSQTQSHPD LGTEGCWDQLSAPR</a>

# MASCOT Search Results

## Peptide View

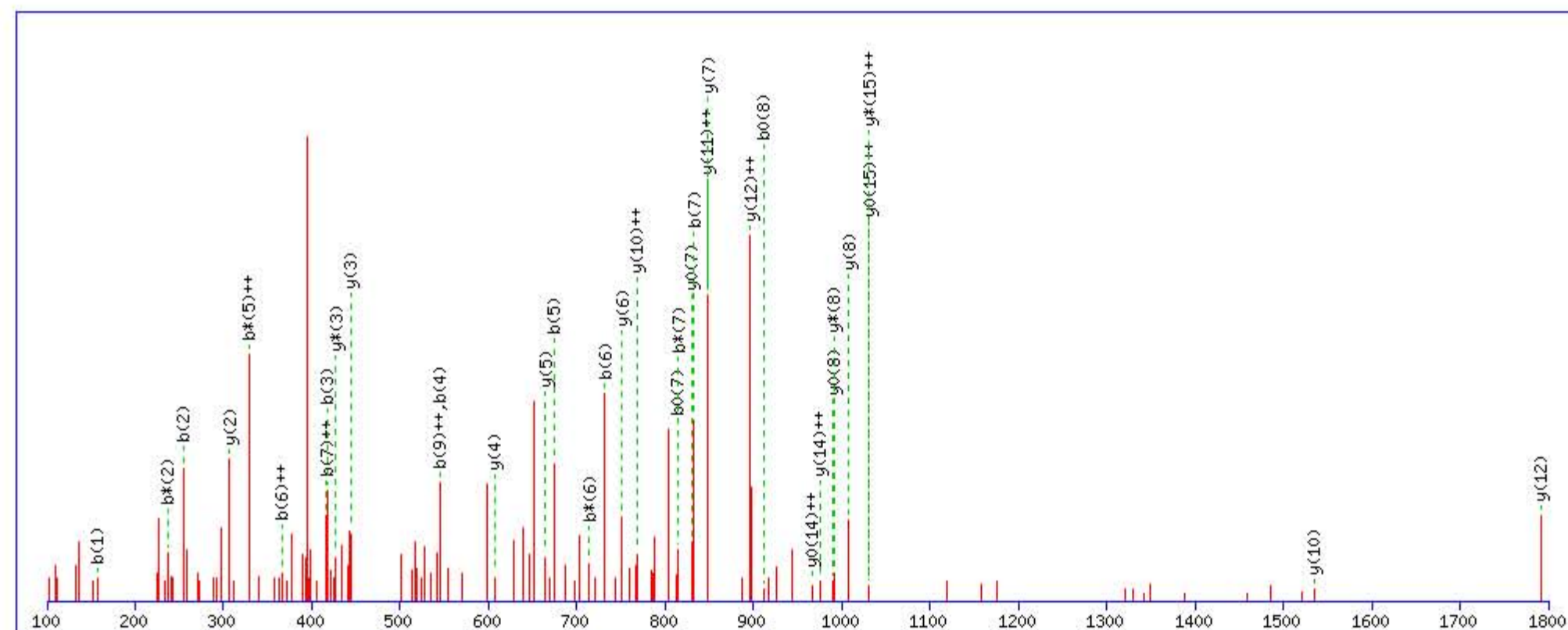
MS/MS Fragmentation of **RPYQEGTPCSQCPSGYHCK**  
 Found in **PII6\_HUMAN**, Peptidase inhibitor 16 OS=Homo sapiens GN=PII6 PE=1 SV=1

Match to Query 49714: 2622.116616 from(656.536430,4+) rtinseconds(1363) index(28048)  
 Title: Locus:1.1.1.3137.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

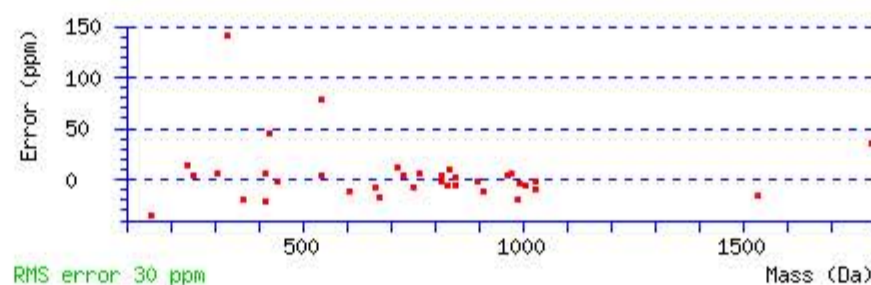
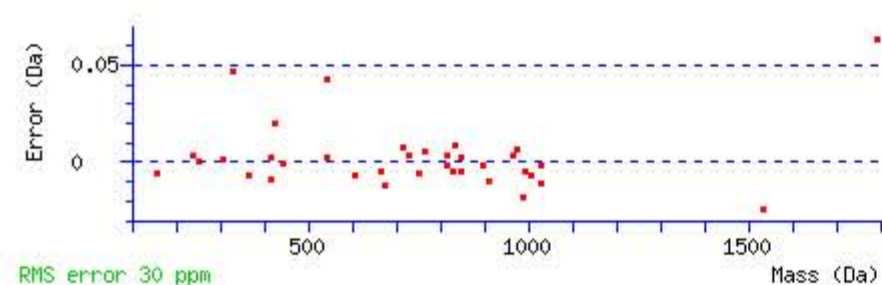
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2622.123611  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q11 : Biotin:Thermo-21345 (Q)  
 Ions Score: 31 Expect: 0.0023  
 Matches : 36/198 fragment ions using 94 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>157.108387</b>	79.057831	140.081838	70.544557			R							19
2	<b>254.161151</b>	127.584213	<b>237.134602</b>	119.070939			P	2467.029773	1234.018524	2450.003224	1225.505250	2449.019208	1225.013242	18
3	<b>417.224480</b>	209.115878	400.197931	200.602604			Y	2369.977009	1185.492142	2352.950460	1176.978868	2351.966444	1176.486860	17
4	<b>545.283058</b>	273.145167	528.256509	264.631893			Q	2206.913680	1103.960478	2189.887131	1095.447203	2188.903115	1094.955195	16
5	<b>674.325651</b>	337.666464	657.299102	<b>329.153189</b>	656.315086	328.661181	E	2078.855102	1039.931189	2061.828553	<b>1031.417914</b>	2060.844537	<b>1030.925906</b>	15
6	<b>731.347115</b>	<b>366.177196</b>	<b>714.320566</b>	357.663921	713.336550	357.171913	G	1949.812509	<b>975.409892</b>	1932.785960	966.896618	1931.801944	<b>966.404610</b>	14
7	<b>832.394794</b>	<b>416.701035</b>	<b>815.368245</b>	408.187761	<b>814.384229</b>	407.695753	T	1892.791045	946.899160	1875.764496	938.385886	1874.780480	937.893878	13
8	929.447558	465.227417	912.421009	456.714143	<b>911.436993</b>	456.222135	P	<b>1791.743366</b>	<b>896.375321</b>	1774.716817	887.862047	1773.732801	887.370038	12
9	1089.478207	<b>545.242742</b>	1072.451658	536.729467	1071.467642	536.237459	C	1694.690602	<b>847.848939</b>	1677.664053	839.335665	1676.680037	838.843656	11
10	1176.510235	588.758756	1159.483686	580.245481	1158.499670	579.753473	S	<b>1534.659953</b>	<b>767.833614</b>	1517.633404	759.320340	1516.649388	758.828332	10
11	1615.735561	808.371419	1598.709012	799.858144	1597.724996	799.366136	Q	1447.627925	724.317600	1430.601376	715.804326	1429.617360	715.312318	9
12	1775.766210	888.386743	1758.739661	879.873469	1757.755645	879.381461	C	<b>1008.402599</b>	504.704937	<b>991.376050</b>	496.191663	<b>990.392034</b>	495.699655	8
13	1872.818974	936.913125	1855.792425	928.399851	1854.808409	927.907843	P	<b>848.371950</b>	424.689613	831.345401	416.176338	<b>830.361385</b>	415.684330	7
14	1959.851002	980.429139	1942.824453	971.915865	1941.840437	971.423857	S	<b>751.319186</b>	376.163231	734.292637	367.649956	733.308621	367.157948	6
15	2016.872466	1008.939871	1999.845917	1000.426597	1998.861901	999.934589	G	<b>664.287158</b>	332.647217	647.260609	324.133942			5
16	2179.935795	1090.471535	2162.909246	1081.958261	2161.925230	1081.466253	Y	<b>607.265694</b>	304.136485	590.239145	295.623210			4
17	2316.994707	1159.000991	2299.968158	1150.487717	2298.984142	1149.995709	H	<b>444.202365</b>	222.604820	<b>427.175816</b>	214.091546			3
18	2477.025356	1239.016316	2459.998807	1230.503041	2459.014791	1230.011033	C	<b>307.143453</b>	154.075364	290.116904	145.562090			2
19							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **RPYQEGTPCSQCPSGYHCK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
31.3	2622.123611	-0.006995	<a href="#">RPYQEGTPCSQCPSGYHCK</a>



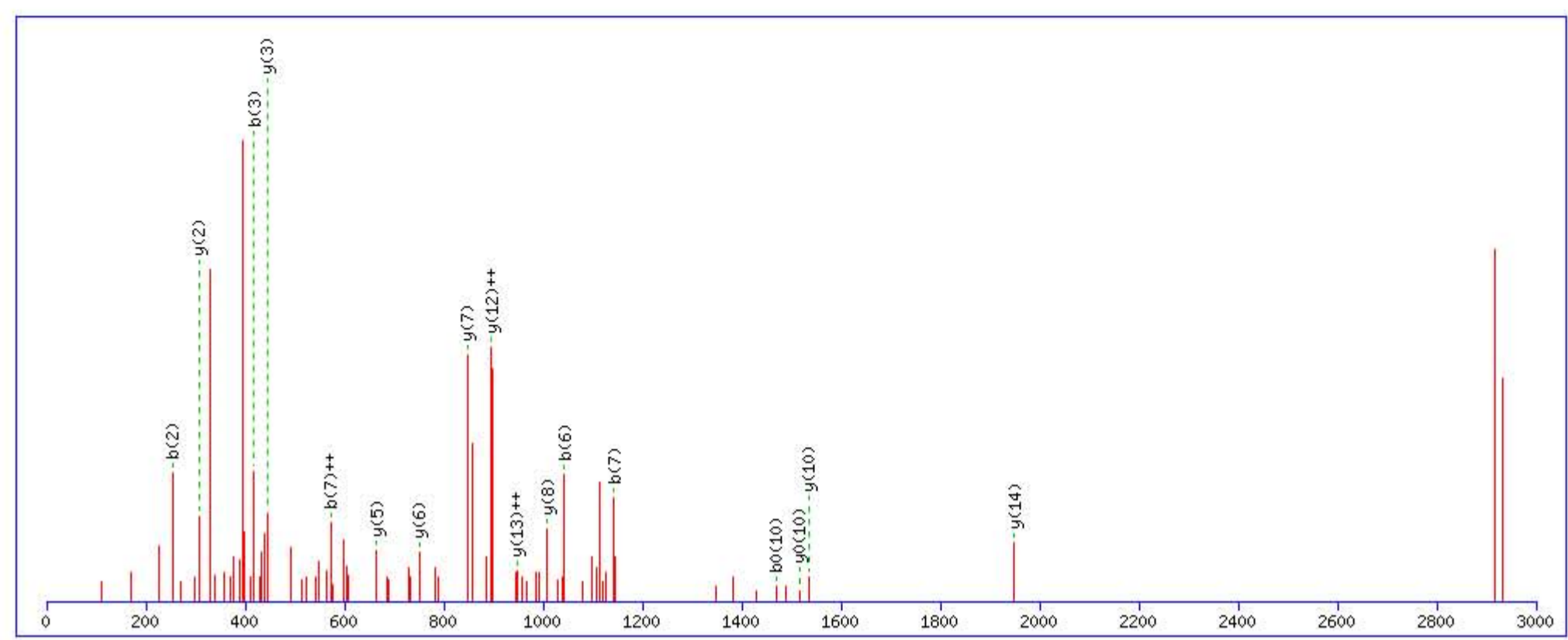
# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **RPYQEGTPCSQCPSGYHCK**  
Found in **PI16\_HUMAN**, Peptidase inhibitor 16 OS=Homo sapiens GN=PI16 PE=1 SV=1

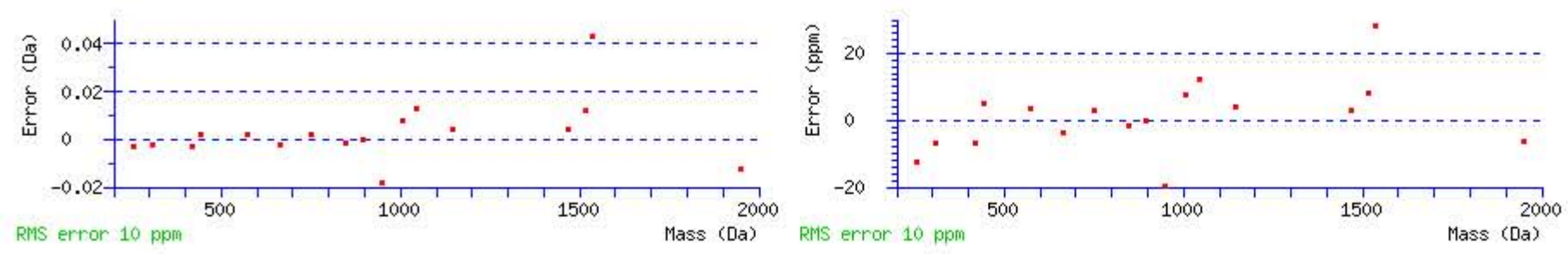
Match to Query 53346: 2933.274696 from(734.325950,4+) rtinseconds(1609) index(29468)  
Title: Locus:1.1.1.3223.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
Or, Plot from 0 to 3000 Da Full range  
Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2933.290359  
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
Variable modifications:  
Q4 : Biotin:Thermo-21345 (Q)  
Q11 : Biotin:Thermo-21345 (Q)  
Ions Score: 41 Expect: 0.0004  
Matches : 17/198 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	157.108387	79.057831	140.081838	70.544557			R							19
2	<b>254.161151</b>	127.584213	237.134602	119.070939			P	2778.196521	1389.601898	2761.169972	1381.088624	2760.185956	1380.596616	18
3	<b>417.224480</b>	209.115878	400.197931	200.602604			Y	2681.143757	1341.075516	2664.117208	1332.562242	2663.133192	1332.070234	17
4	856.449806	428.728541	839.423257	420.215267			Q	2518.080428	1259.543852	2501.053879	1251.030577	2500.069863	1250.538569	16
5	985.492399	493.249838	968.465850	484.736563	967.481834	484.244555	E	2078.855102	1039.931189	2061.828553	1031.417914	2060.844537	1030.925906	15
6	<b>1042.513863</b>	521.760570	1025.487314	513.247295	1024.503298	512.755287	G	<b>1949.812509</b>	975.409893	1932.785960	966.896618	1931.801944	966.404610	14
7	<b>1143.561542</b>	<b>572.284409</b>	1126.534993	563.771135	1125.550977	563.279127	T	1892.791045	<b>946.899160</b>	1875.764496	938.385886	1874.780480	937.893878	13
8	1240.614306	620.810791	1223.587757	612.297517	1222.603741	611.805509	P	1791.743366	<b>896.375321</b>	1774.716817	887.862047	1773.732801	887.370038	12
9	1400.644955	700.826116	1383.618406	692.312841	1382.634390	691.820833	C	1694.690602	847.848939	1677.664053	839.335665	1676.680037	838.843656	11
10	1487.676983	744.342130	1470.650434	735.828855	<b>1469.666418</b>	735.336847	S	<b>1534.659953</b>	767.833614	1517.633404	759.320340	<b>1516.649388</b>	758.828332	10
11	1926.902309	963.954793	1909.875760	955.441518	1908.891744	954.949510	Q	1447.627925	724.317600	1430.601376	715.804326	1429.617360	715.312318	9
12	2086.932958	1043.970117	2069.906409	1035.456842	2068.922393	1034.964834	C	<b>1008.402599</b>	504.704937	991.376050	496.191663	990.392034	495.699655	8
13	2183.985722	1092.496499	2166.959173	1083.983224	2165.975157	1083.491216	P	<b>848.371950</b>	424.689613	831.345401	416.176338	830.361385	415.684330	7
14	2271.017750	1136.012513	2253.991201	1127.499238	2253.007185	1127.007230	S	<b>751.319186</b>	376.163231	734.292637	367.649956	733.308621	367.157948	6
15	2328.039214	1164.523245	2311.012665	1156.009970	2310.028649	1155.517962	G	<b>664.287158</b>	332.647217	647.260609	324.133942			5
16	2491.102543	1246.054909	2474.075994	1237.541635	2473.091978	1237.049627	Y	607.265694	304.136485	590.239145	295.623210			4
17	2628.161455	1314.584365	2611.134906	1306.071091	2610.150890	1305.579083	H	<b>444.202365</b>	222.604820	427.175816	214.091546			3
18	2788.192104	1394.599690	2771.165555	1386.086415	2770.181539	1385.594407	C	<b>307.143453</b>	154.075364	290.116904	145.562090			2
19							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **RPYQEGTPCSQCPSGYHCK**  
(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
40.9	2933.290359	-0.015663	<a href="#">RPYQEGTPCSQCPSGYHCK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **TMFIGGSQLSQK**

Found in **PHLD\_HUMAN**, Phosphatidylinositol-glycan-specific phospholipase D OS=Homo sapiens GN=GPLD1 PE=1 SV=3

Match to Query 30750: 1606.810428 from(804.412490,2+) rtinseconds(2131) index(32624)

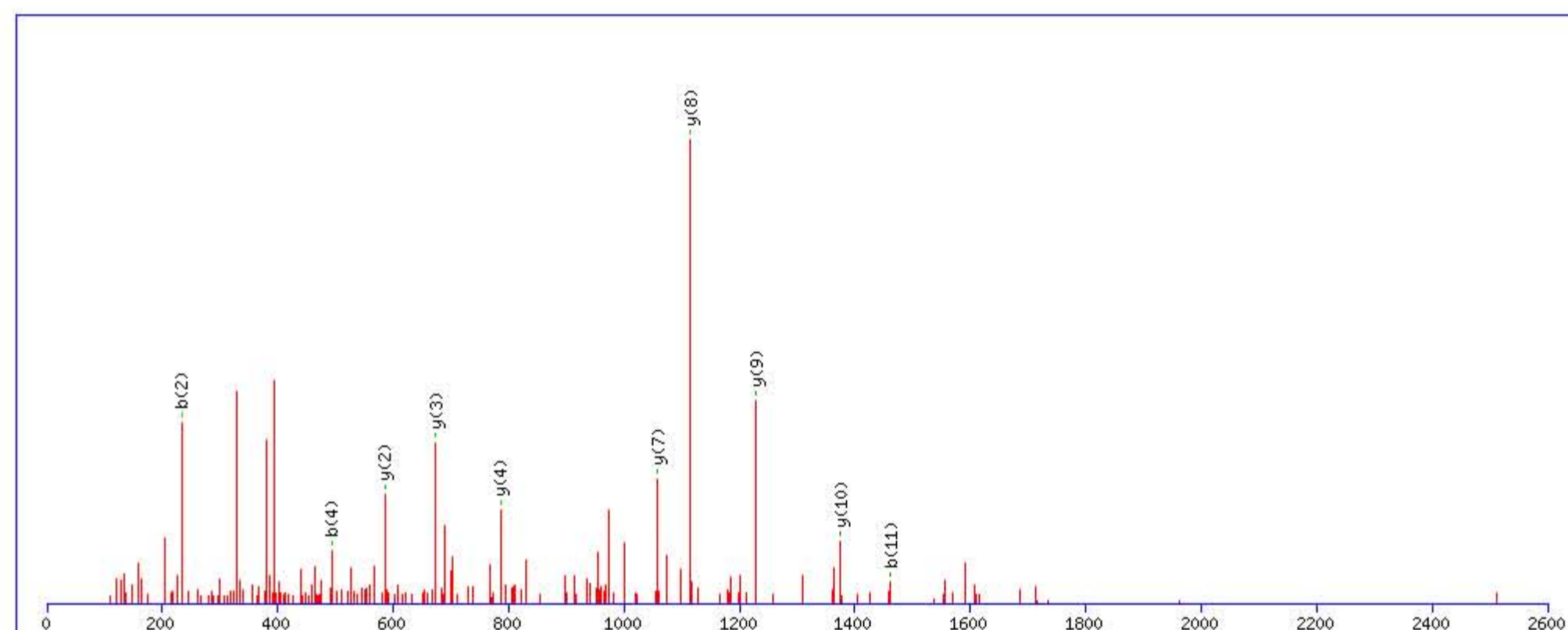
Title: Locus:1.1.1.3405.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1606.821121

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

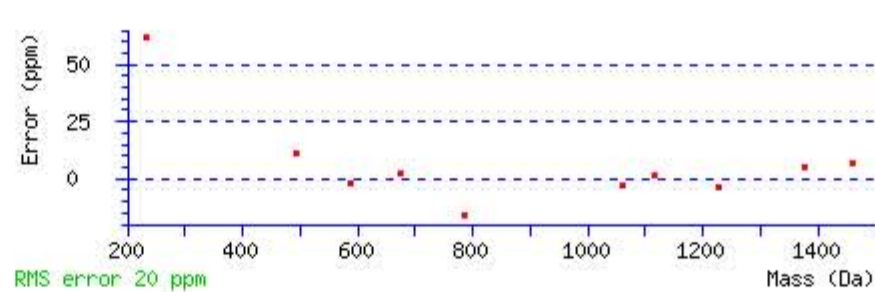
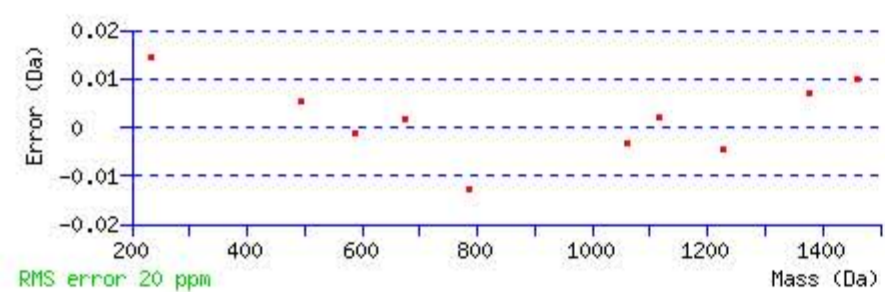
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 52 Expect: 2.4e-005

Matches : 10/114 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							12
2	<b>233.095440</b>	117.051358			215.084875	108.046076	M	1506.780719	753.893998	1489.754170	745.380723	1488.770154	744.888715	11
3	380.163854	190.585565			362.153289	181.580282	F	<b>1375.740234</b>	688.373755	1358.713685	679.860481	1357.729669	679.368473	10
4	<b>493.247918</b>	247.127597			475.237353	238.122314	I	<b>1228.671820</b>	614.839548	1211.645271	606.326274	1210.661255	605.834266	9
5	550.269382	275.638329			532.258817	266.633047	G	<b>1115.587756</b>	558.297516	1098.561207	549.784242	1097.577191	549.292234	8
6	607.290846	304.149061			589.280281	295.143779	G	<b>1058.566292</b>	529.786784	1041.539743	521.273510	1040.555727	520.781502	7
7	694.322874	347.665075			676.312309	338.659793	S	1001.544828	501.276052	984.518279	492.762778	983.534263	492.270770	6
8	822.381452	411.694364	805.354903	403.181090	804.370887	402.689082	Q	914.512800	457.760038	897.486251	449.246764	896.502235	448.754756	5
9	935.465516	468.236396	918.438967	459.723122	917.454951	459.231114	L	<b>786.454222</b>	393.730749	769.427673	385.217475	768.443657	384.725467	4
10	1022.497544	511.752410	1005.470995	503.239136	1004.486979	502.747128	S	<b>673.370158</b>	337.188717	656.343609	328.675443	655.359593	328.183435	3
11	<b>1461.722870</b>	731.365073	1444.696321	722.851799	1443.712305	722.359791	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
12							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **TMFIGGSQLSQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
51.6	1606.821121	-0.010693	<a href="#">TMFIGGSQLSQK</a>
19.1	1606.821121	-0.010693	<a href="#">TMFIGGSQLSQK</a>
2.2	1606.795959	0.014469	<a href="#">VFMDRATNQSK</a>
2.1	1606.798447	0.011981	<a href="#">KSNTILGSQEGNTMK</a>
0.8	1606.809692	0.000736	<a href="#">KAIQRTVSSSGCEGK</a>
0.6	1606.809860	0.000568	<a href="#">AIPEYMTISQK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QVLLVGAPTYDDVSK**

Found in **PHLD\_HUMAN**, Phosphatidylinositol-glycan-specific phospholipase D OS=Homo sapiens GN=GPLD1 PE=1 SV=3

Match to Query 37719: 1915.005582 from(639.342470,3+) rtinseconds(2318) index(33696)

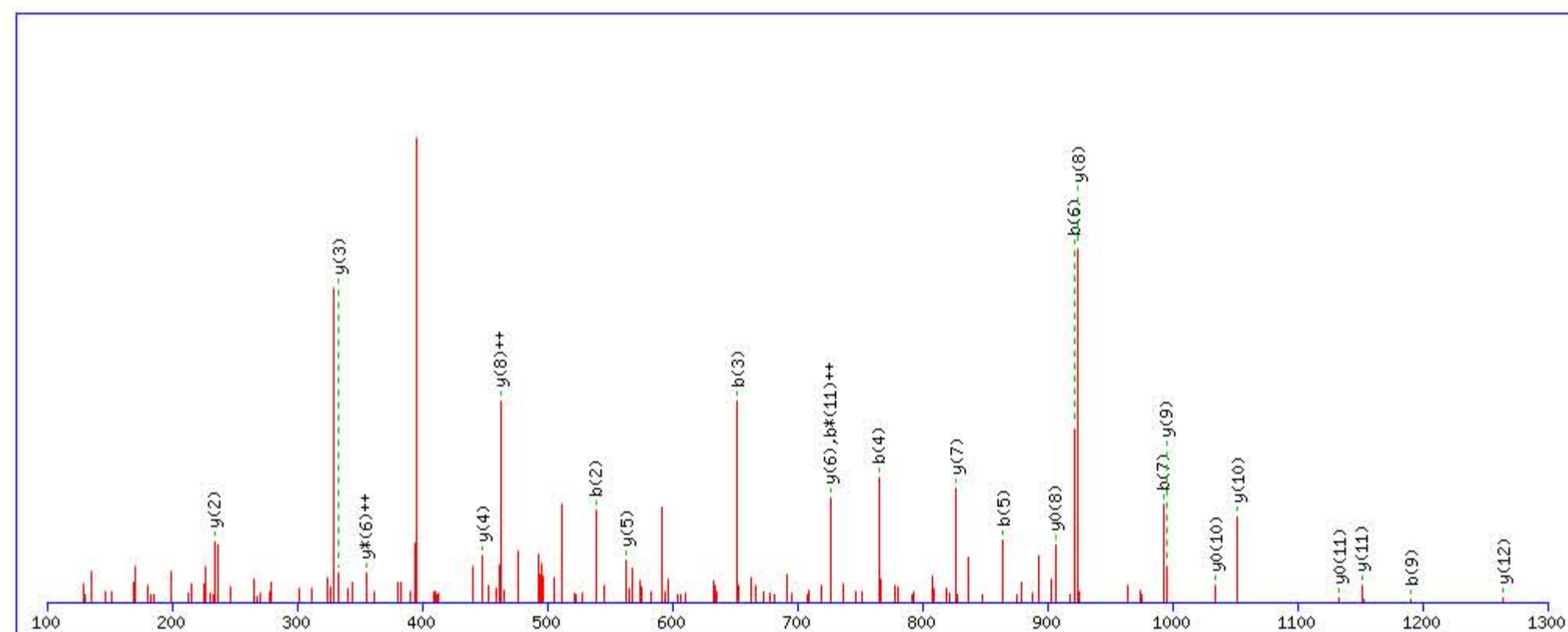
Title: Locus:1.1.1.3471.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 100 to 1300 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1915.012497

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

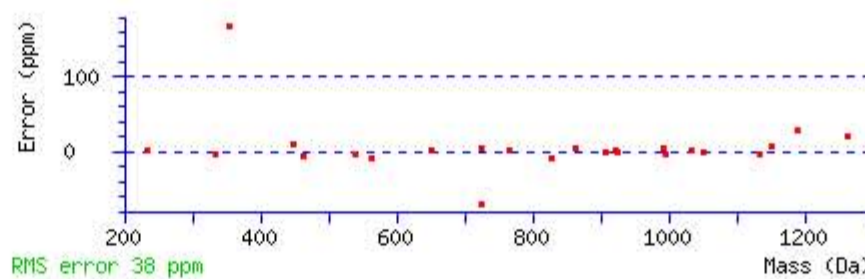
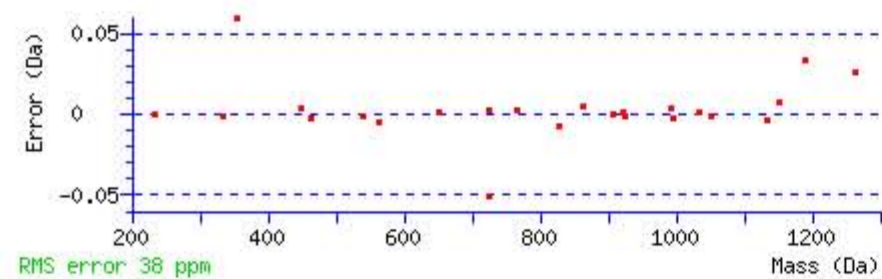
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 54 Expect: 1.1e-005

Matches : 24/150 fragment ions using 52 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							15
2	<b>539.301016</b>	270.154146	522.274467	261.640872			V	1476.794438	738.900857	1459.767889	730.387583	1458.783873	729.895575	14
3	<b>652.385080</b>	326.696178	635.358531	318.182904			L	1377.726024	689.366650	1360.699475	680.853376	1359.715459	680.361368	13
4	<b>765.469144</b>	383.238210	748.442595	374.724936			L	<b>1264.641960</b>	632.824618	1247.615411	624.311344	1246.631395	623.819336	12
5	<b>864.537558</b>	432.772417	847.511009	424.259143			V	<b>1151.557896</b>	576.282586	1134.531347	567.769312	<b>1133.547331</b>	567.277304	11
6	<b>921.559022</b>	461.283149	904.532473	452.769875			G	<b>1052.489482</b>	526.748379	1035.462933	518.235105	<b>1034.478917</b>	517.743097	10
7	<b>992.596136</b>	496.801706	975.569587	488.288432			A	<b>995.468018</b>	498.237647	978.441469	489.724373	977.457453	489.232365	9
8	1089.648900	545.328088	1072.622351	536.814814			P	<b>924.430904</b>	<b>462.719090</b>	907.404355	454.205816	<b>906.420339</b>	453.713808	8
9	<b>1190.696579</b>	595.851927	1173.670030	587.338653	1172.686014	586.846645	T	<b>827.378140</b>	414.192708	810.351591	405.679434	809.367575	405.187426	7
10	1353.759908	677.383592	1336.733359	668.870318	1335.749343	668.378310	Y	<b>726.330461</b>	363.668869	709.303912	<b>355.155594</b>	708.319896	354.663586	6
11	1468.786851	734.897064	1451.760302	<b>726.383789</b>	1450.776286	725.891781	D	<b>563.267132</b>	282.137204	546.240583	273.623930	545.256567	273.131922	5
12	1583.813794	792.410535	1566.787245	783.897261	1565.803229	783.405253	D	<b>448.240189</b>	224.623733	431.213640	216.110458	430.229624	215.618450	4
13	1682.882208	841.944742	1665.855659	833.431468	1664.871643	832.939460	V	<b>333.213246</b>	167.110261	316.186697	158.596987	315.202681	158.104979	3
14	1769.914236	885.460756	1752.887687	876.947482	1751.903671	876.455474	S	<b>234.144832</b>	117.576054	217.118283	109.062780	216.134267	108.570772	2
15							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **QVLLVGAPTYDDVSK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
54.1	1915.012497	-0.006915	<a href="#">QVLLVGAPTYDDVSK</a>
1.4	1914.998550	0.007032	<a href="#">LLAPEAGSHPQQTQK</a>
1.4	1914.998550	0.007032	<a href="#">LLAPEAGSHPQQTQK</a>
1.4	1914.998550	0.007032	<a href="#">LLAPEAGSHPQQTQK</a>
0.2	1915.027710	-0.022128	<a href="#">DYPIYLLKFKQCLSK</a>
0.2	1915.008438	-0.002856	<a href="#">VIQKNQEETTSISK</a>

# MATRIX SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VSSVEECQK**

Found in **KLKB1\_HUMAN**, Plasma kallikrein OS=Homo sapiens GN=KLKB1 PE=1 SV=1

Match to Query 22803: 1375.646888 from(688.830720,2+) rtinseconds(1402) index(57313)

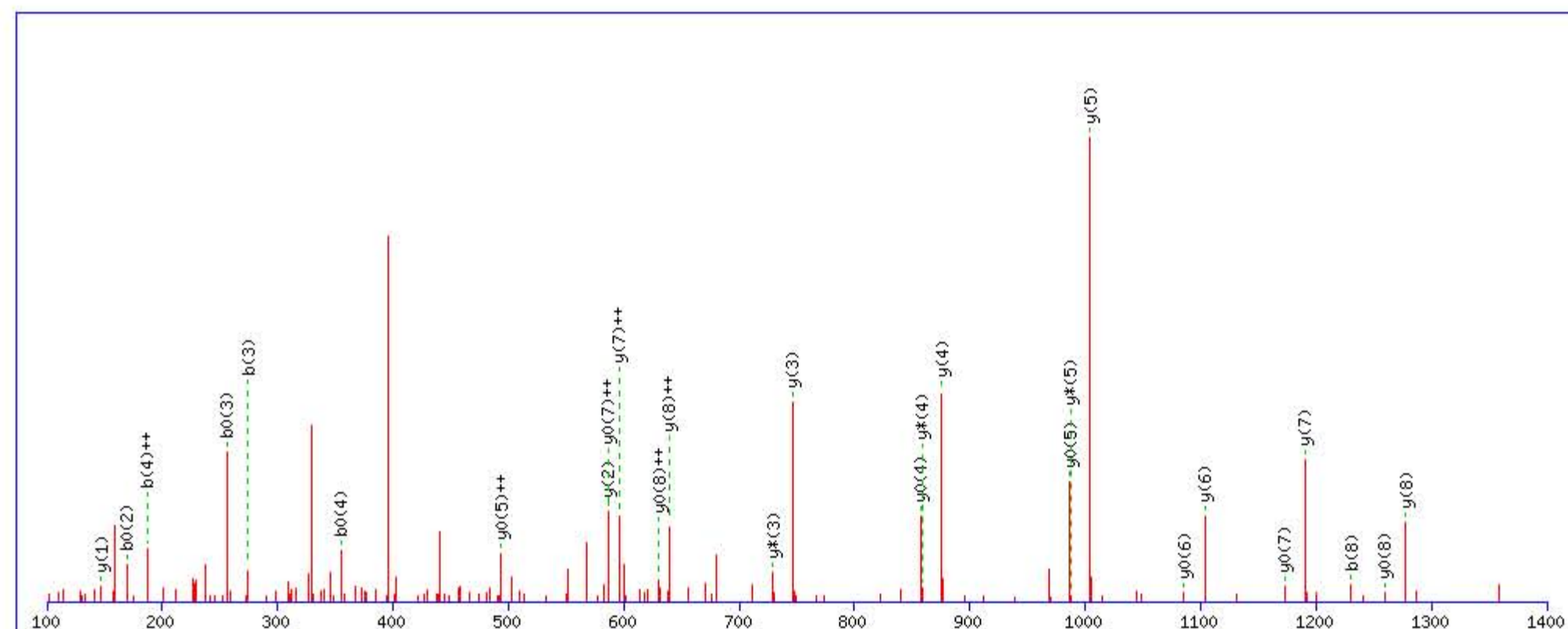
Title: Locus:1.1.1.1399.20 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1375.647568

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

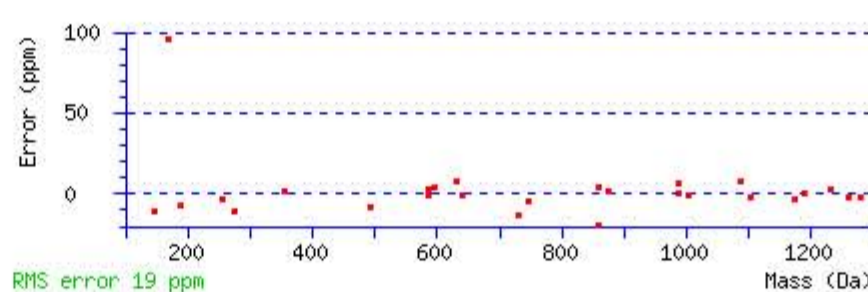
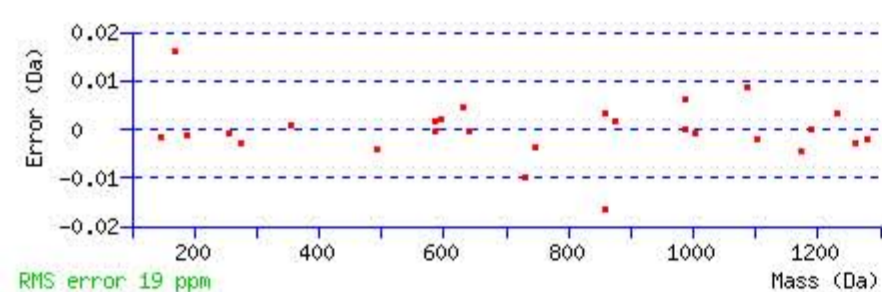
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 49 Expect: 0.00019

Matches : 28/74 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							9
2	187.107718	94.057497			169.097153	85.052214	S	1277.586435	639.296856	1260.559886	630.783581	1259.575870	630.291573	8
3	274.139746	137.573511			256.129181	128.568229	S	1190.554407	595.780842	1173.527858	587.267567	1172.543842	586.775559	7
4	373.208160	187.107718			355.197595	178.102436	V	1103.522379	552.264828	1086.495830	543.751553	1085.511814	543.259545	6
5	502.250753	251.629015			484.240188	242.623732	E	1004.453965	502.730621	987.427416	494.217346	986.443400	493.725338	5
6	631.293346	316.150311			613.282781	307.145029	E	875.411372	438.209324	858.384823	429.696050	857.400807	429.204042	4
7	791.323995	396.165636			773.313430	387.160353	C	746.368779	373.688028	729.342230	365.174753			3
8	1230.549321	615.778299	1213.522772	607.265024	1212.538756	606.773016	Q	586.338130	293.672703	569.311581	285.159429			2
9							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VSSVEECQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
48.8	1375.647568	-0.000680	<a href="#">VSSVEECQK</a>
9.8	1375.662827	-0.015939	<a href="#">GFSIPECQK</a>
2.6	1375.665329	-0.018441	<a href="#">ADVSLPSMQGDLK</a>
0.5	1375.665314	-0.018426	<a href="#">VSLMTSSEEIHK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EKGEIQNILQK**

Found in **KLKB1\_HUMAN**, Plasma kallikrein OS=Homo sapiens GN=KLKB1 PE=1 SV=1

Match to Query 30908: 1609.881912 from(537.634580,3+) rtinseconds(1887) index(18203)

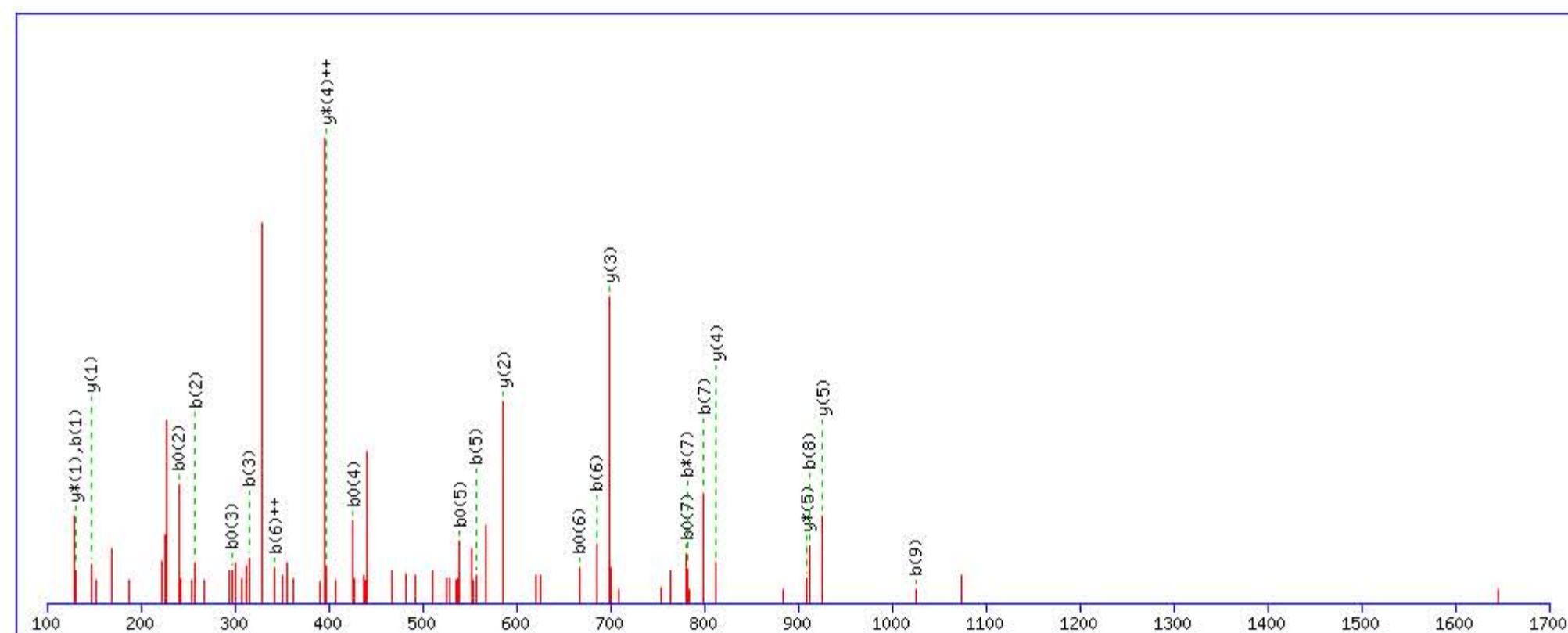
Title: Locus:1.1.1.3223.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1609.886124

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

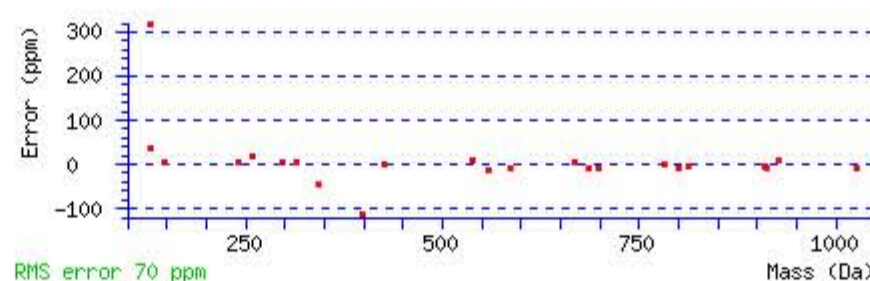
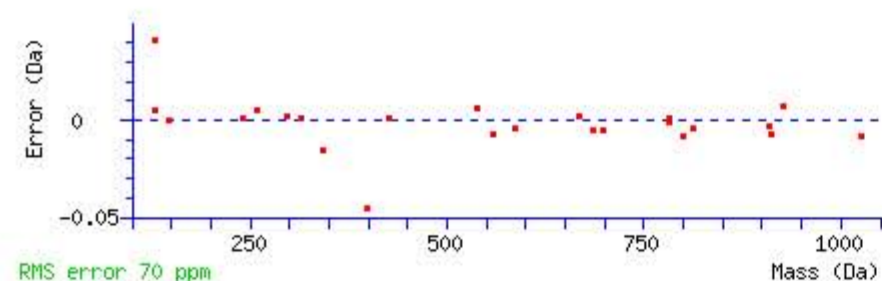
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.013

Matches : 24/104 fragment ions using 53 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							11
2	258.144832	129.576054	241.118283	121.062780	240.134267	120.570772	K	1481.850847	741.429061	1464.824298	732.915787	1463.840282	732.423779	10
3	315.166296	158.086786	298.139747	149.573512	297.155731	149.081504	G	1353.755884	677.381580	1336.729335	668.868306	1335.745319	668.376297	9
4	444.208889	222.608082	427.182340	214.094808	426.198324	213.602800	E	1296.734420	648.870848	1279.707871	640.357574	1278.723855	639.865566	8
5	557.292953	279.150115	540.266404	270.636840	539.282388	270.144832	I	1167.691827	584.349552	1150.665278	575.836277			7
6	685.351531	343.179404	668.324982	334.666129	667.340966	334.174121	Q	1054.607763	527.807520	1037.581214	519.294245			6
7	799.394458	400.200867	782.367909	391.687592	781.383893	391.195585	N	926.549185	463.778231	909.522636	455.264956			5
8	912.478522	456.742899	895.451973	448.229625	894.467957	447.737617	I	812.506258	406.756767	795.479709	398.243493			4
9	1025.562586	513.284931	1008.536037	504.771657	1007.552021	504.279649	L	699.422194	350.214735	682.395645	341.701461			3
10	1464.787912	732.897594	1447.761363	724.384320	1446.777347	723.892312	Q	586.338130	293.672703	569.311581	285.159429			2
11							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EKGEIQNILQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
32.1	1609.886124	-0.004212	<a href="#">EKGEIQNILQK</a>
14.7	1609.872192	0.009720	<a href="#">QEAERALKQAR</a>
2.8	1609.897400	-0.015488	<a href="#">TNLRIVDVGGQK</a>
1.9	1609.878754	0.003158	<a href="#">AGPLTVNTEAQQLLR</a>
1.1	1609.886154	-0.004242	<a href="#">KTVTAMDVYALKR</a>
0.9	1609.868393	0.013519	<a href="#">TKVQEQQK</a>
0.3	1609.890839	-0.008927	<a href="#">RIHMMSLGLNLAR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **IAYGTQGSSGYSLR**

Found in **KLKB1\_HUMAN**, Plasma kallikrein OS=Homo sapiens GN=KLKB1 PE=1 SV=1

Match to Query 35090: 1769.884768 from(885.949660,2+) rtinseconds(1918) index(59981)

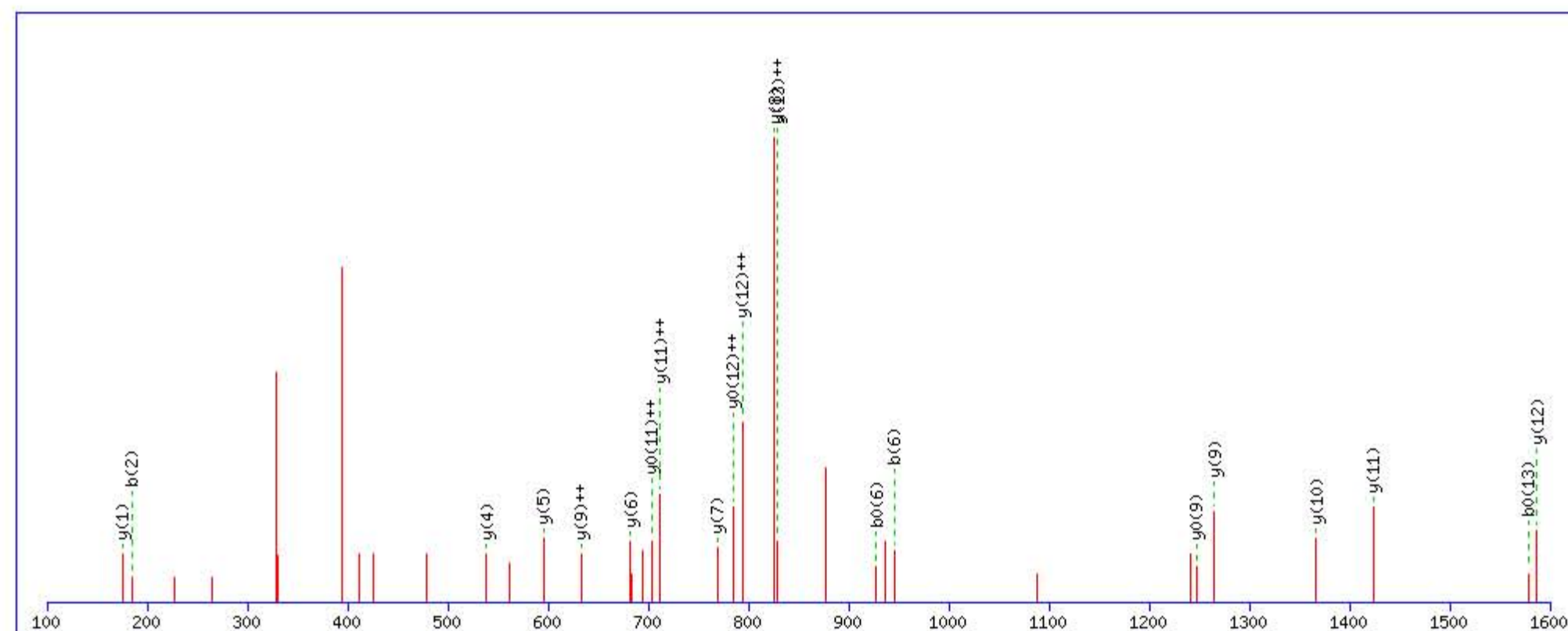
Title: Locus:1.1.1.1579.25 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1769.877045

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

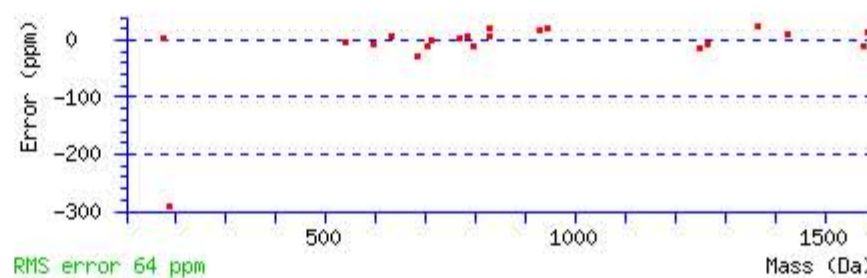
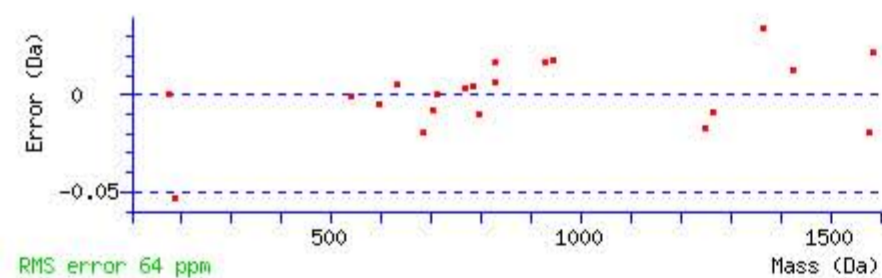
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 72 Expect: 4.2e-007

Matches : 21/134 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							14
2	<b>185.128454</b>	93.067865					A	1657.800269	<b>829.403773</b>	1640.773720	820.890498	1639.789704	820.398490	13
3	348.191783	174.599529					Y	<b>1586.763155</b>	<b>793.885216</b>	1569.736606	785.371941	1568.752590	<b>784.879933</b>	12
4	405.213247	203.110261					G	<b>1423.699826</b>	<b>712.353551</b>	1406.673277	703.840277	1405.689261	<b>703.348269</b>	11
5	506.260926	253.634101			488.250361	244.628818	T	<b>1366.678362</b>	683.842819	1349.651813	675.329545	1348.667797	674.837537	10
6	<b>945.486252</b>	473.246764	928.459703	464.733490	<b>927.475687</b>	464.241482	Q	<b>1265.630683</b>	<b>633.318980</b>	1248.604134	624.805705	<b>1247.620118</b>	624.313697	9
7	1002.507716	501.757496	985.481167	493.244222	984.497151	492.752214	G	<b>826.405357</b>	413.706317	809.378808	405.193042	808.394792	404.701034	8
8	1089.539744	545.273510	1072.513195	536.760236	1071.529179	536.268228	S	<b>769.383893</b>	385.195585	752.357344	376.682310	751.373328	376.190302	7
9	1176.571772	588.789524	1159.545223	580.276250	1158.561207	579.784242	S	<b>682.351865</b>	341.679571	665.325316	333.166296	664.341300	332.674288	6
10	1233.593236	617.300256	1216.566687	608.786982	1215.582671	608.294974	G	<b>595.319837</b>	298.163557	578.293288	289.650282	577.309272	289.158274	5
11	1396.656565	698.831921	1379.630016	690.318646	1378.646000	689.826638	Y	<b>538.298373</b>	269.652825	521.271824	261.139550	520.287808	260.647542	4
12	1483.688593	742.347935	1466.662044	733.834660	1465.678028	733.342652	S	375.235044	188.121160	358.208495	179.607885	357.224479	179.115877	3
13	1596.772657	798.889967	1579.746108	790.376692	<b>1578.762092</b>	789.884684	L	288.203016	144.605146	271.176467	136.091871			2
14							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **IAYGTQGSSGYSLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
72.5	1769.877045	0.007723	<a href="#">IAYGTQGSSGYSLR</a>
4.2	1769.909424	-0.024656	<a href="#">LATDAAQVQGATGTR</a>
1.5	1769.880402	0.004366	<a href="#">ALSQTPMPAPEMPKTR</a>
1.5	1769.872299	0.012469	<a href="#">LAYSEAGDYLVAIEEK</a>
0.7	1769.875717	0.009051	<a href="#">TSGMLTVLEEEAVFTK</a>
0.0	1769.884247	0.000521	<a href="#">TELQEVRAQLCNPGR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VNIPLVTNEECQK**

Found in **KLKB1\_HUMAN**, Plasma kallikrein OS=Homo sapiens GN=KLKB1 PE=1 SV=1

Match to Query 36790: 1853.935782 from(618.985870,3+) rtinseconds(2172) index(20038)

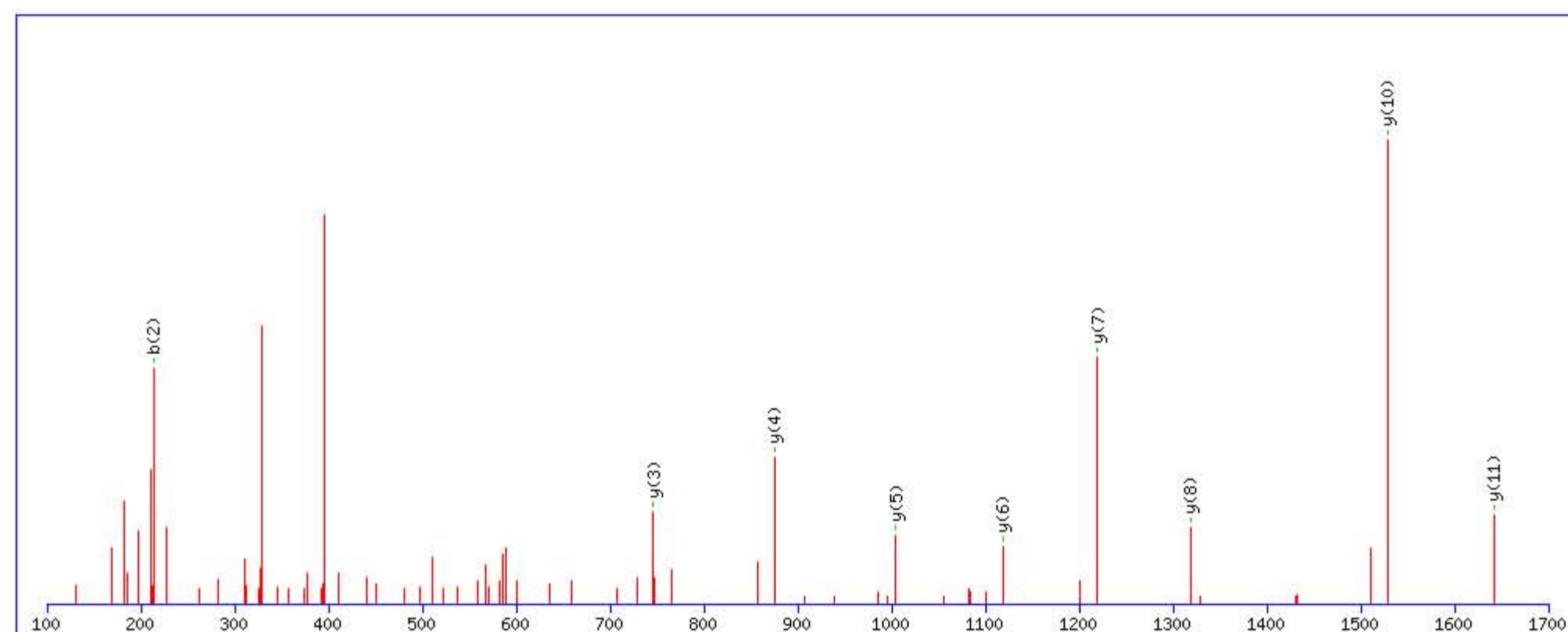
Title: Locus:1.1.1.3322.3 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1853.937927

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

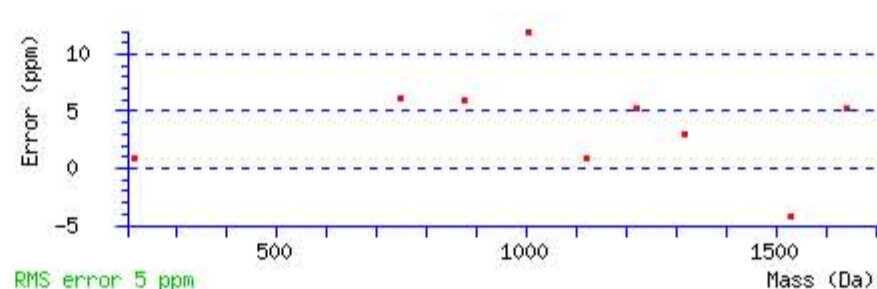
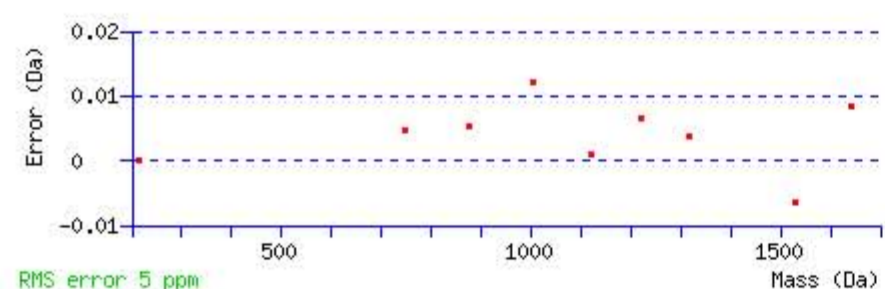
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 57 Expect: 3.6e-005

Matches : 9/124 fragment ions using 14 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							13
2	<b>214.118617</b>	107.562947	197.092068	99.049672			N	1755.876804	878.442040	1738.850255	869.928766	1737.866239	869.436758	12
3	327.202681	164.104978	310.176132	155.591704			I	<b>1641.833877</b>	821.420577	1624.807328	812.907302	1623.823312	812.415294	11
4	424.255445	212.631360	407.228896	204.118086			P	<b>1528.749813</b>	764.878545	1511.723264	756.365270	1510.739248	755.873262	10
5	537.339509	269.173393	520.312960	260.660118			L	1431.697049	716.352163	1414.670500	707.838888	1413.686484	707.346880	9
6	636.407923	318.707600	619.381374	310.194325			V	<b>1318.612985</b>	659.810131	1301.586436	651.296856	1300.602420	650.804848	8
7	737.455602	369.231439	720.429053	360.718165	719.445037	360.226157	T	<b>1219.544571</b>	610.275924	1202.518022	601.762649	1201.534006	601.270641	7
8	851.498529	426.252903	834.471980	417.739628	833.487964	417.247620	N	<b>1118.496892</b>	559.752084	1101.470343	551.238810	1100.486327	550.746802	6
9	980.541122	490.774199	963.514573	482.260924	962.530557	481.768916	E	<b>1004.453965</b>	502.730621	987.427416	494.217346	986.443400	493.725338	5
10	1109.583715	555.295496	1092.557166	546.782221	1091.573150	546.290213	E	<b>875.411372</b>	438.209324	858.384823	429.696050	857.400807	429.204042	4
11	1269.614364	635.310820	1252.587815	626.797546	1251.603799	626.305538	C	<b>746.368779</b>	373.688028	729.342230	365.174753			3
12	1708.839690	854.923483	1691.813141	846.410209	1690.829125	845.918201	Q	586.338130	293.672703	569.311581	285.159429			2
13							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VNIPLVTNEECQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
56.9	1853.937927	-0.002145	<a href="#">VNIPLVTNEECQK</a>
9.0	1853.934341	0.001441	<a href="#">RGLSNPNELQAAIDSNR</a>
3.0	1853.909424	0.026358	<a href="#">CFNTLTNSFQPSLLGR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QCGHQISACHR**

Found in **KLKB1\_HUMAN**, Plasma kallikrein OS=Homo sapiens GN=KLKB1 PE=1 SV=1

Match to Query 38868: 1974.909616 from(494.734680,4+) rtinseconds(1497) index(28805)

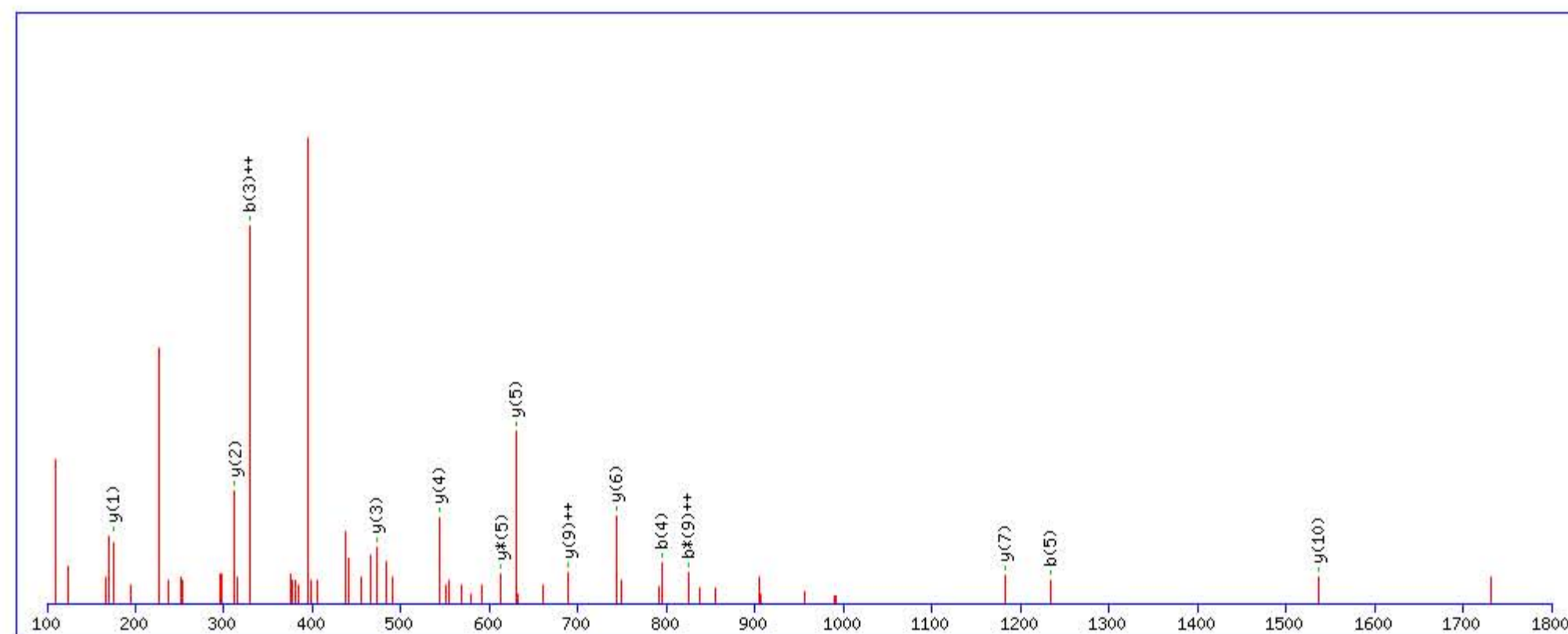
Title: Locus:1.1.1.3184.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide **Mr(calc): 1974.916122**

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

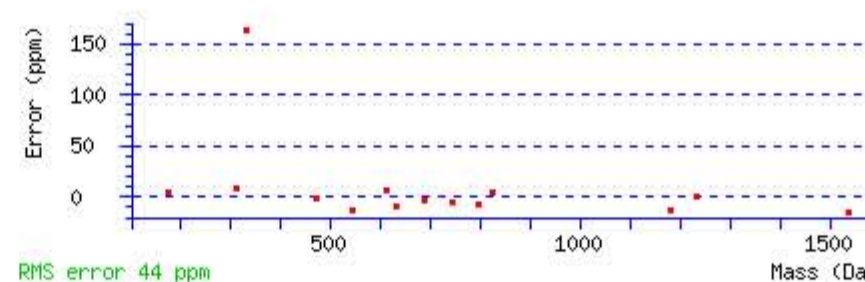
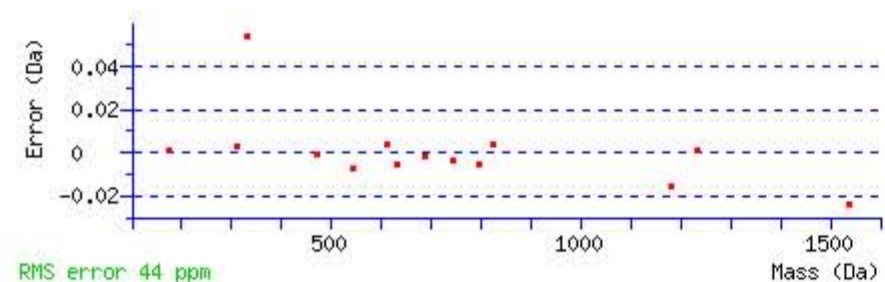
Q1 : Biotin:Thermo-21345 (Q)

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.0057

Matches : 14/100 fragment ions using 31 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							11
2	600.263251	300.635264	583.236702	292.121989			C	1536.698070	768.852673	1519.671521	760.339399	1518.687505	759.847391	10
3	657.284715	329.145996	640.258166	320.632721			G	1376.667421	688.837349	1359.640872	680.324074	1358.656856	679.832066	9
4	794.343627	397.675452	777.317078	389.162177			H	1319.645957	660.326617	1302.619408	651.813342	1301.635392	651.321334	8
5	1233.568953	617.288115	1216.542404	608.774840			Q	1182.587045	591.797161	1165.560496	583.283886	1164.576480	582.791878	7
6	1346.653017	673.830147	1329.626468	665.316872			I	743.361719	372.184498	726.335170	363.671223	725.351154	363.179215	6
7	1433.685045	717.346161	1416.658496	708.832886	1415.674480	708.340878	S	630.277655	315.642466	613.251106	307.129191	612.267090	306.637183	5
8	1504.722159	752.864718	1487.695610	744.351443	1486.711594	743.859435	A	543.245627	272.126452	526.219078	263.613177			4
9	1664.752808	832.880042	1647.726259	824.366768	1646.742243	823.874760	C	472.208513	236.607894	455.181964	228.094620			3
10	1801.811720	901.409498	1784.785171	892.896224	1783.801155	892.404216	H	312.177864	156.592570	295.151315	148.079295			2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **QCGHQISACHR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
33.4	1974.916122	-0.006506	<a href="#">QCGHQISACHR</a>

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



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GGDVASMYTPNAQYCQMR**

Found in **KLKB1\_HUMAN**, Plasma kallikrein OS=Homo sapiens GN=KLKB1 PE=1 SV=1

Match to Query 45932: 2359.021602 from(787.347810,3+) rtinseconds(2076) index(32325)

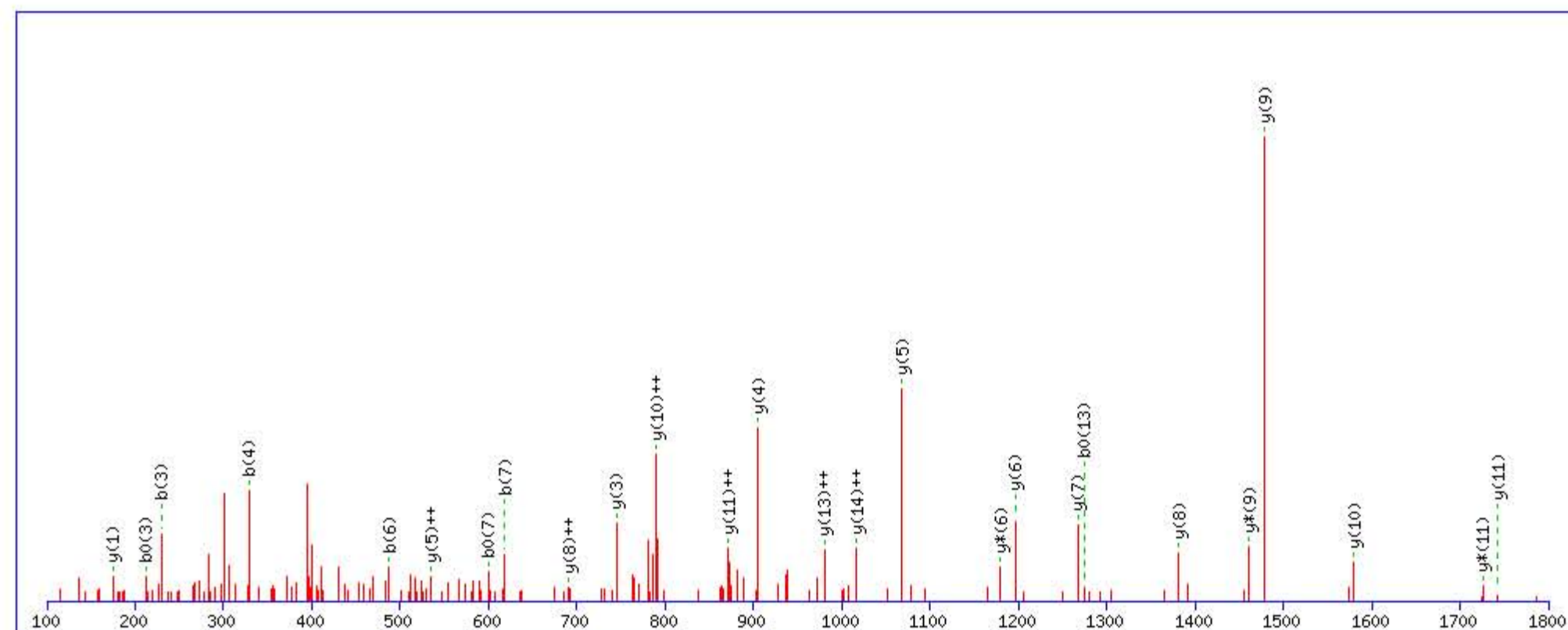
Title: Locus:1.1.1.3386.19 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2359.021759

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

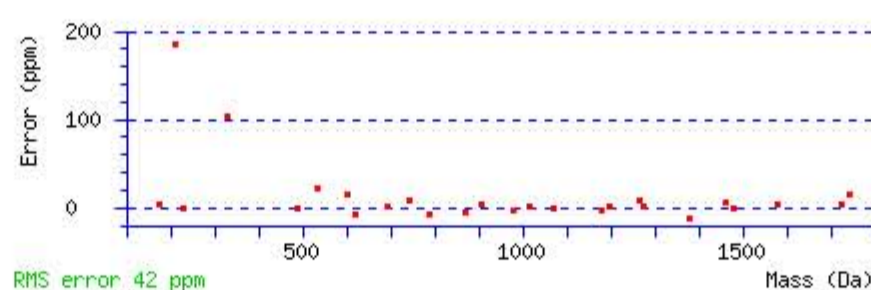
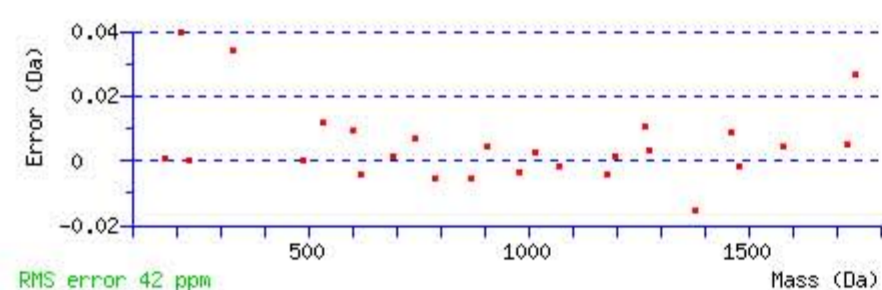
Variable modifications:

Q16 : Biotin:Thermo-21345 (Q)

Ions Score: 76 Expect: 1.1e-007

Matches : 26/162 fragment ions using 32 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							18
2	115.050204	58.028740					G	2303.007580	1152.007428	2285.981031	1143.494153	2284.997015	1143.002145	17
3	<b>230.077147</b>	115.542211			<b>212.066582</b>	106.536929	D	2245.986116	1123.496696	2228.959567	1114.983421	2227.975551	1114.491413	16
4	<b>329.145561</b>	165.076418			311.134996	156.071136	V	2130.959173	1065.983224	2113.932624	1057.469950	2112.948608	1056.977942	15
5	400.182675	200.594975			382.172110	191.589693	A	2031.890759	<b>1016.449018</b>	2014.864210	1007.935743	2013.880194	1007.443735	14
6	<b>487.214703</b>	244.110989			469.204138	235.105707	S	1960.853645	<b>980.930461</b>	1943.827096	972.417186	1942.843080	971.925178	13
7	<b>618.255188</b>	309.631232			<b>600.244623</b>	300.625949	M	1873.821617	937.414447	1856.795068	928.901172	1855.811052	928.409164	12
8	781.318517	391.162896			763.307952	382.157614	Y	<b>1742.781132</b>	<b>871.894204</b>	<b>1725.754583</b>	863.380930	1724.770567	862.888922	11
9	882.366196	441.686736			864.355631	432.681453	T	<b>1579.717803</b>	<b>790.362540</b>	1562.691254	781.849265	1561.707238	781.357257	10
10	979.418960	490.213118			961.408395	481.207835	P	<b>1478.670124</b>	739.838700	<b>1461.643575</b>	731.325426			9
11	1093.461887	547.234581	1076.435338	538.721307	1075.451322	538.229299	N	<b>1381.617360</b>	<b>691.312318</b>	1364.590811	682.799044			8
12	1164.499001	582.753138	1147.472452	574.239864	1146.488436	573.747856	A	<b>1267.574433</b>	634.290855	1250.547884	625.777580			7
13	1292.557579	646.782428	1275.531030	638.269153	<b>1274.547014</b>	637.777145	Q	<b>1196.537319</b>	598.772298	<b>1179.510770</b>	590.259023			6
14	1455.620908	728.314092	1438.594359	719.800818	1437.610343	719.308810	Y	<b>1068.478741</b>	<b>534.743009</b>	1051.452192	526.229734			5
15	1615.651557	808.329417	1598.625008	799.816142	1597.640992	799.324134	C	<b>905.415412</b>	453.211344	888.388863	444.698070			4
16	2054.876883	1027.942079	2037.850334	1019.428805	2036.866318	1018.936797	Q	<b>745.384763</b>	373.196020	728.358214	364.682745			3
17	2185.917368	1093.462322	2168.890819	1084.949047	2167.906803	1084.457039	M	306.159437	153.583356	289.132888	145.070082			2
18							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GGDVASMYTPNAQYCQMR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
76.3	2359.021759	-0.000157	<a href="#">GGDVASMYTPNAQYCQMR</a>
44.2	2359.021759	-0.000157	<a href="#">GGDVASMYTPNAQYCQMR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **DFTCVHQALK**

Found in **IC1\_HUMAN**, Plasma protease C1 inhibitor OS=Homo sapiens GN=SERPING1 PE=1 SV=2

Match to Query 28044: 1528.749188 from(765.381870,2+) rtinseconds(1830) index(30780)

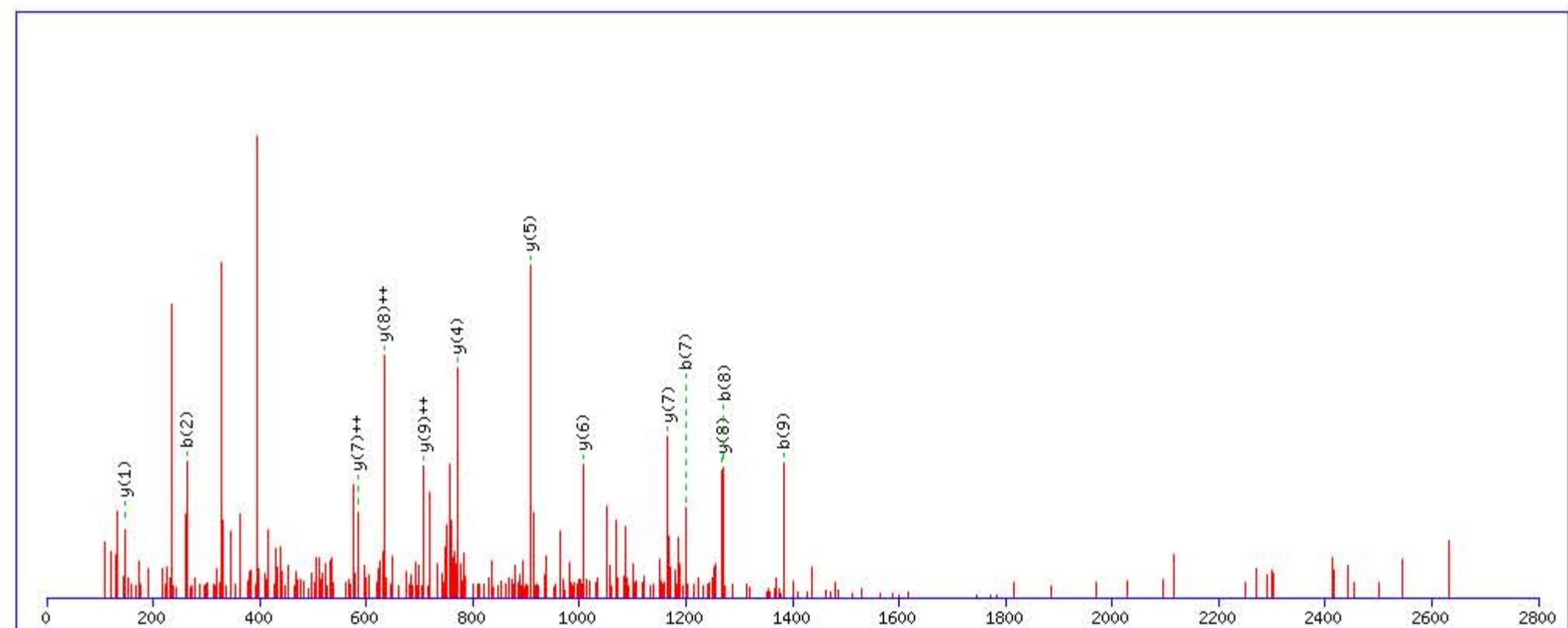
Title: Locus:1.1.1.3300.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1528.753052

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

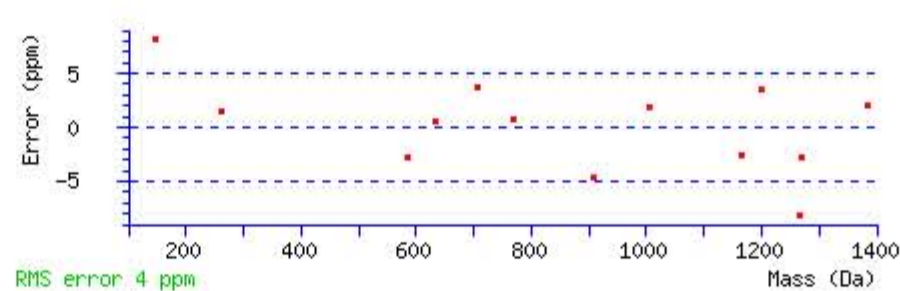
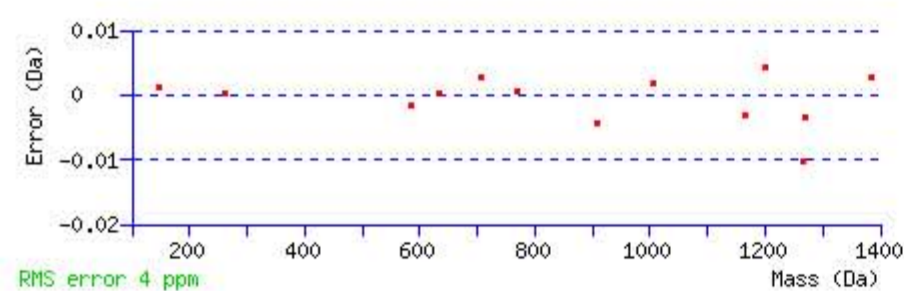
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.0037

Matches : 13/82 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							10
2	<b>263.102633</b>	132.054954			245.092068	123.049672	F	1414.733376	<b>707.870326</b>	1397.706827	699.357051	1396.722811	698.865043	9
3	364.150312	182.578794			346.139747	173.573512	T	<b>1267.664962</b>	<b>634.336119</b>	1250.638413	625.822844	1249.654397	625.330836	8
4	524.180961	262.594119			506.170396	253.588836	C	<b>1166.617283</b>	<b>583.812279</b>	1149.590734	575.299005			7
5	623.249375	312.128326			605.238810	303.123043	V	<b>1006.586634</b>	503.796955	989.560085	495.283680			6
6	760.308287	380.657782			742.297722	371.652499	H	<b>907.518220</b>	454.262748	890.491671	445.749473			5
7	<b>1199.533613</b>	600.270444	1182.507064	591.757170	1181.523048	591.265162	Q	<b>770.459308</b>	385.733292	753.432759	377.220017			4
8	<b>1270.570727</b>	635.789001	1253.544178	627.275727	1252.560162	626.783719	A	331.233982	166.120629	314.207433	157.607354			3
9	<b>1383.654791</b>	692.331033	1366.628242	683.817759	1365.644226	683.325751	L	260.196868	130.602072	243.170319	122.088797			2
10							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [DFTCVHQALK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
28.4	1528.753052	-0.003864	<a href="#">DFTCVHQALK</a>
2.5	1528.740936	0.008252	<a href="#">VYESIGQYGGGETVK</a>

# MATRIX SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VTTSQDMLSIMEK**

Found in **IC1\_HUMAN**, Plasma protease C1 inhibitor OS=Homo sapiens GN=SERPING1 PE=1 SV=2

Match to Query 35568: 1792.871568 from(897.443060,2+) rtinseconds(2389) index(34021)

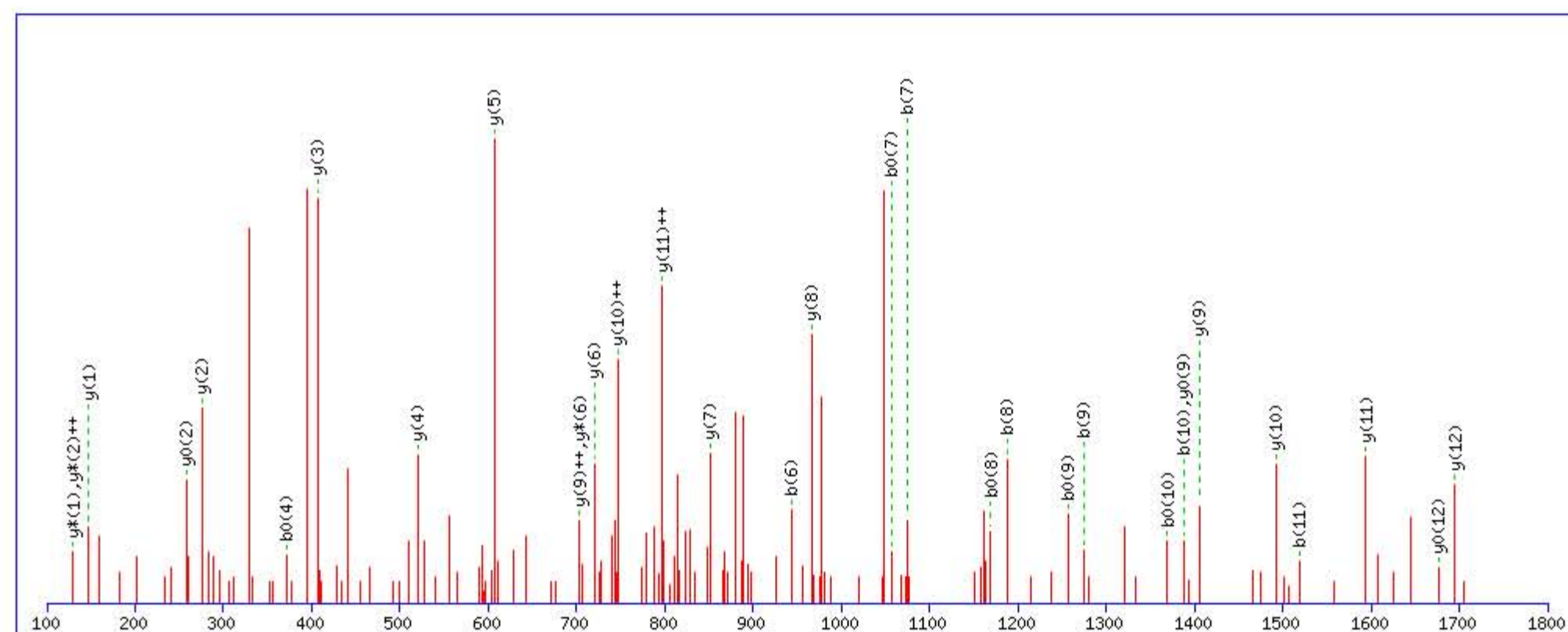
Title: Locus:1.1.1.3495.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1792.877304

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

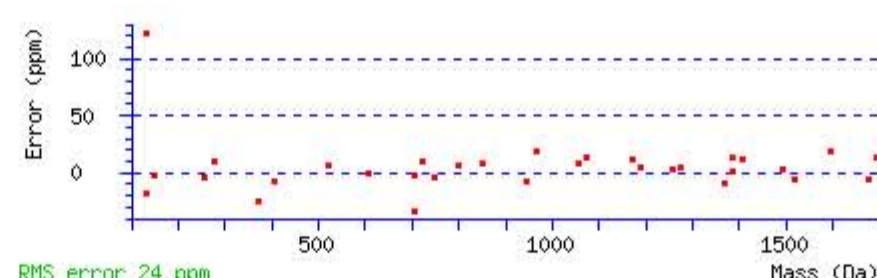
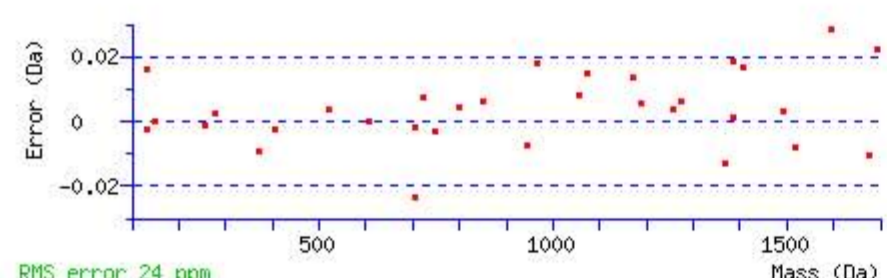
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 86 Expect: 5e-008

Matches : 32/132 fragment ions using 48 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							13
2	201.123369	101.065322			183.112804	92.060040	T	1694.816178	847.911727	1677.789629	839.398453	1676.805613	838.906445	12
3	302.171048	151.589162			284.160483	142.583879	T	1593.768499	797.387888	1576.741950	788.874613	1575.757934	788.382605	11
4	389.203076	195.105176			371.192511	186.099893	S	1492.720820	746.864048	1475.694271	738.350774	1474.710255	737.858766	10
5	828.428402	414.717839	811.401853	406.204565	810.417837	405.712557	Q	1405.688792	703.348034	1388.662243	694.834760	1387.678227	694.342752	9
6	943.455345	472.231311	926.428796	463.718036	925.444780	463.226028	D	966.463466	483.735371	949.436917	475.222097	948.452901	474.730089	8
7	1074.495830	537.751553	1057.469281	529.238279	1056.485265	528.746271	M	851.436523	426.221900	834.409974	417.708625	833.425958	417.216617	7
8	1187.579894	594.293585	1170.553345	585.780311	1169.569329	585.288302	L	720.396038	360.701657	703.369489	352.188383	702.385473	351.696375	6
9	1274.611922	637.809599	1257.585373	629.296325	1256.601357	628.804317	S	607.311974	304.159625	590.285425	295.646351	589.301409	295.154343	5
10	1387.695986	694.351631	1370.669437	685.838357	1369.685421	685.346348	I	520.279946	260.643611	503.253397	252.130337	502.269381	251.638329	4
11	1518.736471	759.871873	1501.709922	751.358599	1500.725906	750.866591	M	407.195882	204.101579	390.169333	195.588305	389.185317	195.096297	3
12	1647.779064	824.393170	1630.752515	815.879896	1629.768499	815.387888	E	276.155397	138.581337	259.128848	130.068062	258.144832	129.576054	2
13							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VTTSQDMLSIMEK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
86.5	1792.877304	-0.005736	<a href="#">VTTSQDMLSIMEK</a>

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

# MATRIX SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **KYPVAHFIDQTLK**

Found in **IC1\_HUMAN**, Plasma protease C1 inhibitor OS=Homo sapiens GN=SERPING1 PE=1 SV=2

Match to Query 37033: 1870.009872 from(624.343900,3+) rtinseconds(2035) index(32090)

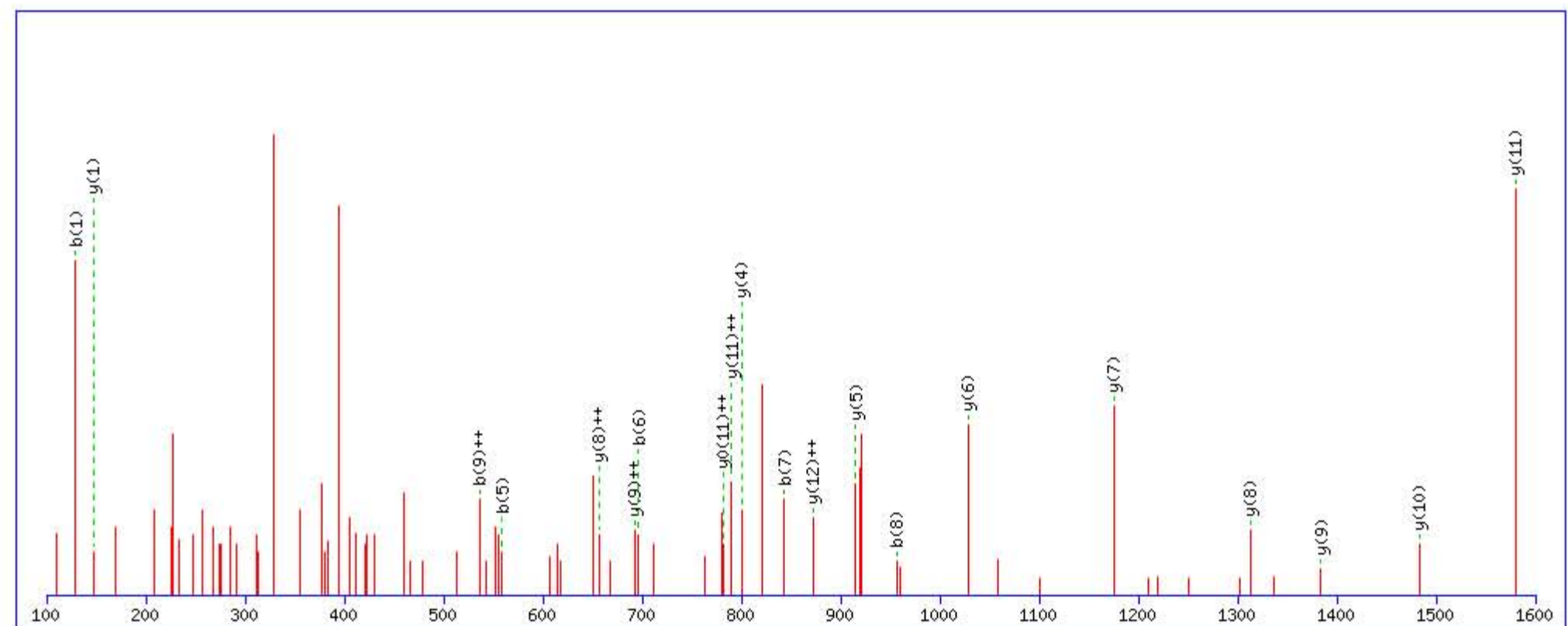
Title: Locus:1.1.1.3372.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1870.017502

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

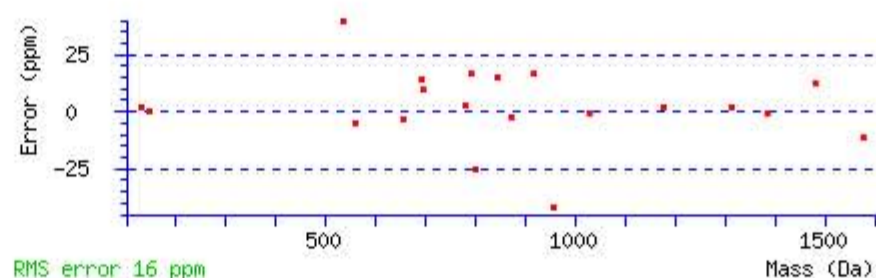
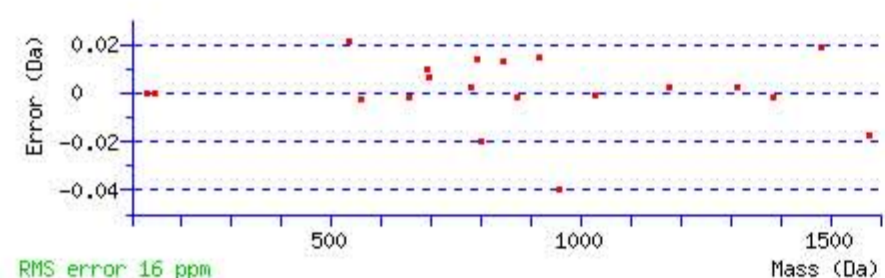
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 30 Expect: 0.024

Matches : 20/124 fragment ions using 58 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>129.102239</b>	65.054757	112.075690	56.541483			<b>K</b>							<b>13</b>
2	292.165568	146.586422	275.139019	138.073148			<b>Y</b>	1742.929827	<b>871.968552</b>	1725.903278	863.455277	1724.919262	862.963269	<b>12</b>
3	389.218332	195.112804	372.191783	186.599529			<b>P</b>	<b>1579.866498</b>	<b>790.436887</b>	1562.839949	781.923613	1561.855933	<b>781.431605</b>	<b>11</b>
4	488.286746	244.647011	471.260197	236.133737			<b>V</b>	<b>1482.813734</b>	741.910505	1465.787185	733.397231	1464.803169	732.905223	<b>10</b>
5	<b>559.323860</b>	280.165568	542.297311	271.652294			<b>A</b>	<b>1383.745320</b>	<b>692.376298</b>	1366.718771	683.863024	1365.734755	683.371016	<b>9</b>
6	<b>696.382772</b>	348.695024	679.356223	340.181750			<b>H</b>	<b>1312.708206</b>	<b>656.857741</b>	1295.681657	648.344467	1294.697641	647.852459	<b>8</b>
7	<b>843.451186</b>	422.229231	826.424637	413.715957			<b>F</b>	<b>1175.649294</b>	588.328285	1158.622745	579.815011	1157.638729	579.323003	<b>7</b>
8	<b>956.535250</b>	478.771263	939.508701	470.257989			<b>I</b>	<b>1028.580880</b>	514.794078	1011.554331	506.280804	1010.570315	505.788796	<b>6</b>
9	1071.562193	<b>536.284735</b>	1054.535644	527.771460	1053.551628	527.279452	<b>D</b>	<b>915.496816</b>	458.252046	898.470267	449.738772	897.486251	449.246764	<b>5</b>
10	1510.787519	755.897398	1493.760970	747.384123	1492.776954	746.892115	<b>Q</b>	<b>800.469873</b>	400.738575	783.443324	392.225300	782.459308	391.733292	<b>4</b>
11	1611.835198	806.421237	1594.808649	797.907963	1593.824633	797.415955	<b>T</b>	361.244547	181.125911	344.217998	172.612637	343.233982	172.120629	<b>3</b>
12	1724.919262	862.963269	1707.892713	854.449995	1706.908697	853.957987	<b>L</b>	260.196868	130.602072	243.170319	122.088797			<b>2</b>
13							<b>K</b>	<b>147.112804</b>	74.060040	130.086255	65.546765			<b>1</b>



NCBI BLAST search of **KYPVAHFIDQTLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
29.6	1870.017502	-0.007630	<a href="#">KYPVAHFIDQTLK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **LEDMEQALSPSVFK**

Found in **IC1\_HUMAN**, Plasma protease C1 inhibitor OS=Homo sapiens GN=SERPING1 PE=1 SV=2

Match to Query 37455: 1903.938102 from(635.653310,3+) rtinseconds(2448) index(34301)

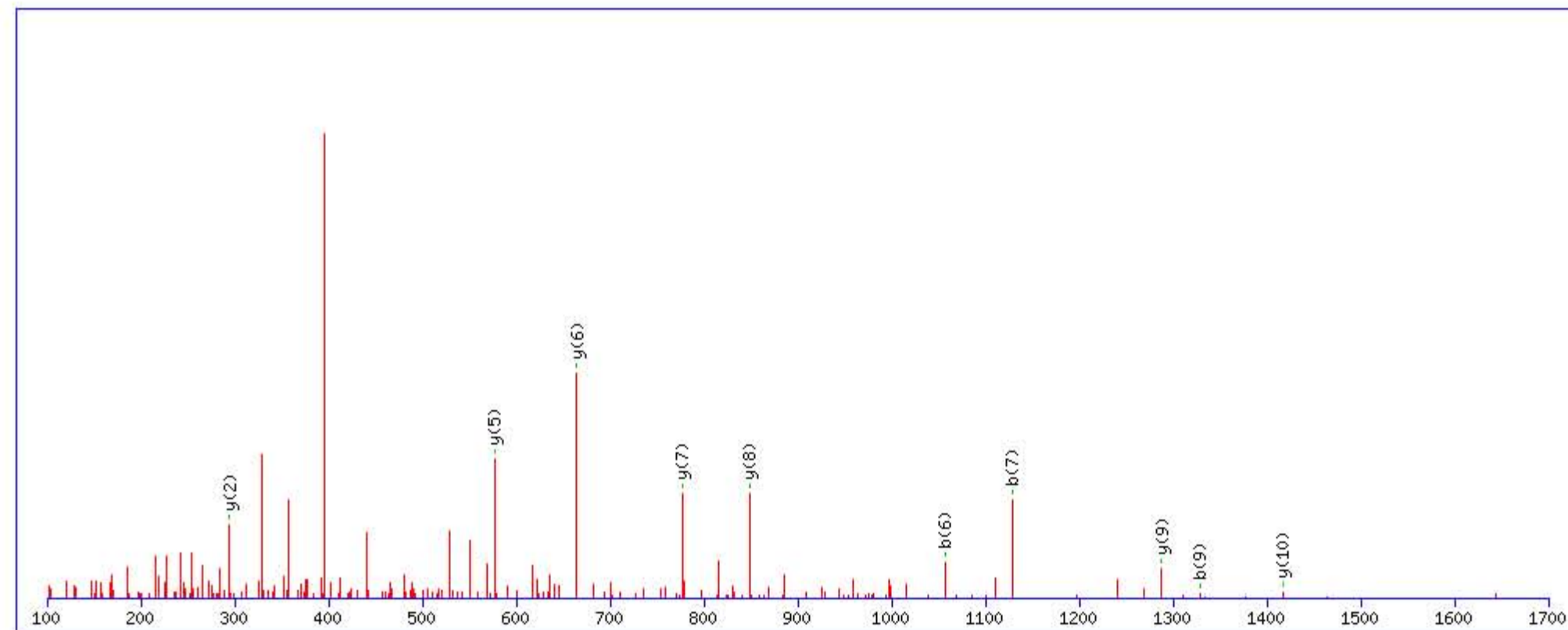
Title: Locus:1.1.1.3516.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1903.942337

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

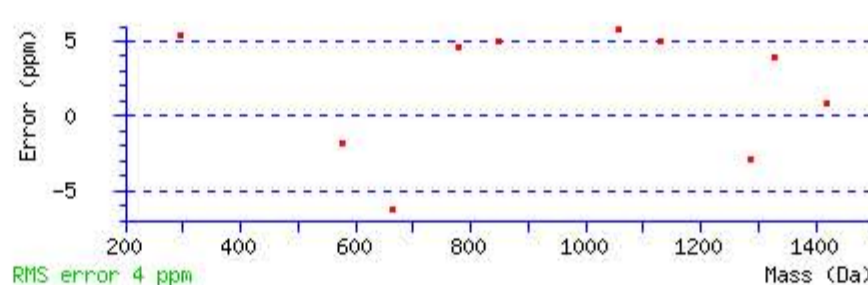
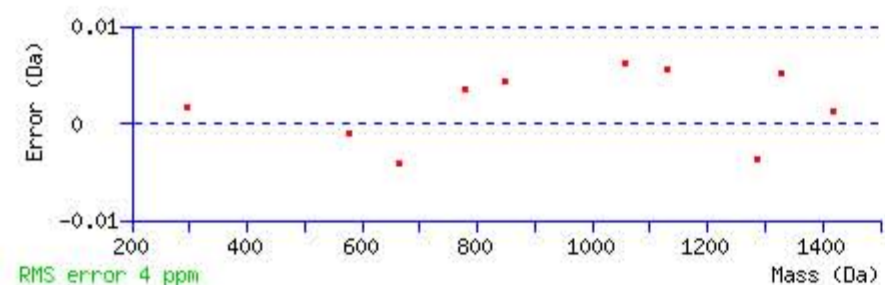
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 45 Expect: 0.00014

Matches : 10/138 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							14
2	243.133933	122.070605			225.123368	113.065322	E	1791.865570	896.436423	1774.839021	887.923149	1773.855005	887.431141	13
3	358.160876	179.584076			340.150311	170.578794	D	1662.822977	831.915127	1645.796428	823.401852	1644.812412	822.909844	12
4	489.201361	245.104319			471.190796	236.099036	M	1547.796034	774.401655	1530.769485	765.888381	1529.785469	765.396373	11
5	618.243954	309.625615			600.233389	300.620333	E	<b>1416.755549</b>	708.881413	1399.729000	700.368138	1398.744984	699.876130	10
6	<b>1057.469280</b>	529.238278	1040.442731	520.725004	1039.458715	520.232996	Q	<b>1287.712956</b>	644.360116	1270.686407	635.846842	1269.702391	635.354834	9
7	<b>1128.506394</b>	564.756835	1111.479845	556.243561	1110.495829	555.751553	A	<b>848.487630</b>	424.747453	831.461081	416.234179	830.477065	415.742171	8
8	1241.590458	621.298867	1224.563909	612.785593	1223.579893	612.293584	L	<b>777.450516</b>	389.228896	760.423967	380.715622	759.439951	380.223614	7
9	<b>1328.622486</b>	664.814881	1311.595937	656.301607	1310.611921	655.809598	S	<b>664.366452</b>	332.686864	647.339903	324.173590	646.355887	323.681582	6
10	1425.675250	713.341263	1408.648701	704.827989	1407.664685	704.335981	P	<b>577.334424</b>	289.170850	560.307875	280.657576	559.323859	280.165568	5
11	1512.707278	756.857277	1495.680729	748.344003	1494.696713	747.851995	S	480.281660	240.644468	463.255111	232.131194	462.271095	231.639186	4
12	1611.775692	806.391484	1594.749143	797.878210	1593.765127	797.386202	V	393.249632	197.128454	376.223083	188.615180			3
13	1758.844106	879.925691	1741.817557	871.412417	1740.833541	870.920409	F	<b>294.181218</b>	147.594247	277.154669	139.080973			2
14							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LEDMEQALSPSVFK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
44.6	1903.942337	-0.004235	<a href="#">LEDMEQALSPSVFK</a>
3.6	1903.924377	0.013725	<a href="#">LQSQRPSMASLMPSSR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **GVTSVSQIFHSPDLAIR**

Found in **IC1\_HUMAN**, Plasma protease C1 inhibitor OS=Homo sapiens GN=SERPING1 PE=1 SV=2

Match to Query 42160: 2137.133216 from(535.290580,4+) rtinseconds(2342) index(33791)

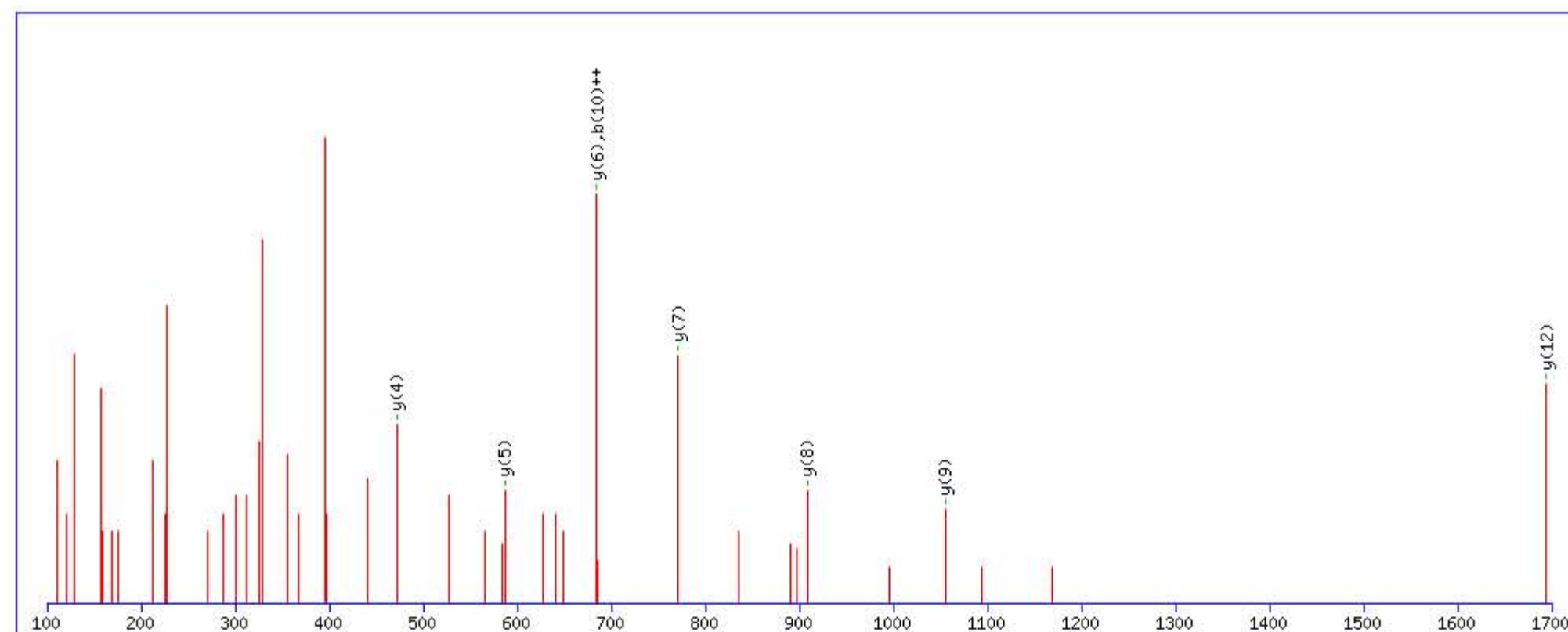
Title: Locus:1.1.1.3479.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2137.135406

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

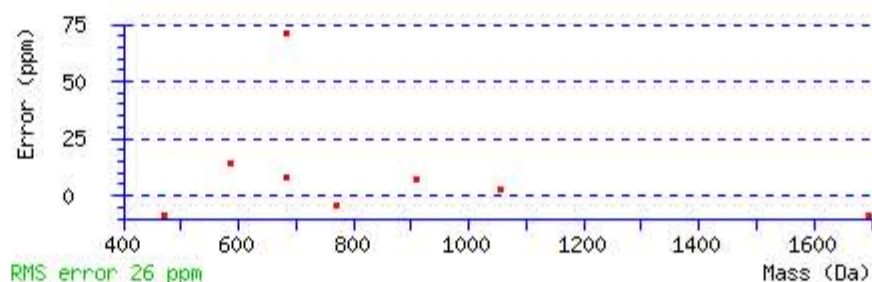
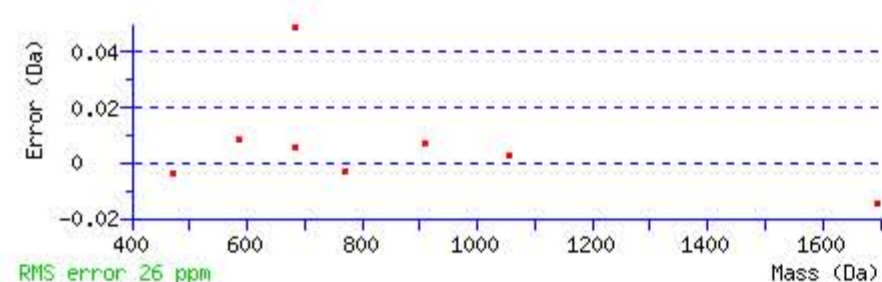
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 41 Expect: 0.0019

Matches : 8/168 fragment ions using 12 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					<b>G</b>							17
2	157.097154	79.052215					<b>V</b>	2081.121208	1041.064242	2064.094659	1032.550967	2063.110643	1032.058959	16
3	258.144833	129.576055			240.134268	120.570772	<b>T</b>	1982.052794	991.530035	1965.026245	983.016761	1964.042229	982.524753	15
4	345.176861	173.092068			327.166296	164.086786	<b>S</b>	1881.005115	941.006196	1863.978566	932.492921	1862.994550	932.000913	14
5	444.245275	222.626275			426.234710	213.620993	<b>V</b>	1793.973087	897.490182	1776.946538	888.976907	1775.962522	888.484899	13
6	531.277303	266.142290			513.266738	257.137007	<b>S</b>	<b>1694.904673</b>	847.955975	1677.878124	839.442700	1676.894108	838.950692	12
7	970.502629	485.754953	953.476080	477.241678	952.492064	476.749670	<b>Q</b>	1607.872645	804.439961	1590.846096	795.926686	1589.862080	795.434678	11
8	1083.586693	542.296985	1066.560144	533.783710	1065.576128	533.291702	<b>I</b>	1168.647319	584.827298	1151.620770	576.314023	1150.636754	575.822015	10
9	1230.655107	615.831192	1213.628558	607.317917	1212.644542	606.825909	<b>F</b>	<b>1055.563255</b>	528.285266	1038.536706	519.771991	1037.552690	519.279983	9
10	1367.714019	<b>684.360648</b>	1350.687470	675.847373	1349.703454	675.355365	<b>H</b>	<b>908.494841</b>	454.751059	891.468292	446.237784	890.484276	445.745776	8
11	1454.746047	727.876662	1437.719498	719.363387	1436.735482	718.871379	<b>S</b>	<b>771.435929</b>	386.221603	754.409380	377.708328	753.425364	377.216320	7
12	1551.798811	776.403044	1534.772262	767.889769	1533.788246	767.397761	<b>P</b>	<b>684.403901</b>	342.705589	667.377352	334.192314	666.393336	333.700306	6
13	1666.825754	833.916515	1649.799205	825.403241	1648.815189	824.911233	<b>D</b>	<b>587.351137</b>	294.179207	570.324588	285.665932	569.340572	285.173924	5
14	1779.909818	890.458547	1762.883269	881.945273	1761.899253	881.453265	<b>L</b>	<b>472.324194</b>	236.665735	455.297645	228.152460			4
15	1850.946932	925.977104	1833.920383	917.463830	1832.936367	916.971822	<b>A</b>	359.240130	180.123703	342.213581	171.610429			3
16	1964.030996	982.519136	1947.004447	974.005862	1946.020431	973.513853	<b>I</b>	288.203016	144.605146	271.176467	136.091872			2
17							<b>R</b>	175.118952	88.063114	158.092403	79.549840			1



NCBI BLAST search of [GVTSVSQIFHSPDLAIR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
40.9	2137.135406	-0.002190	<a href="#">GVTSVSQIFHSPDLAIR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EAQLPVIENK**

Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

Match to Query 25893: 1450.782108 from(726.398330,2+) rtinseconds(1991) index(19030)

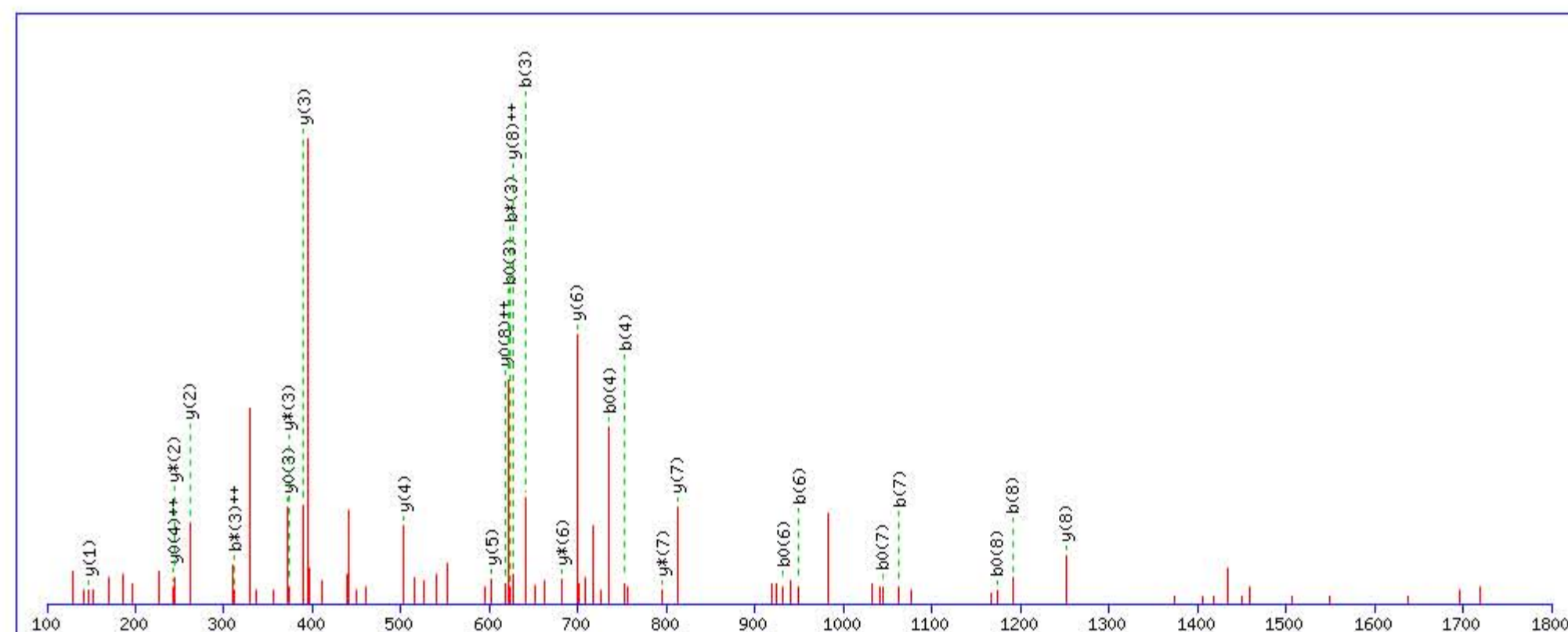
Title: Locus:1.1.1.3259.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1450.785355

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

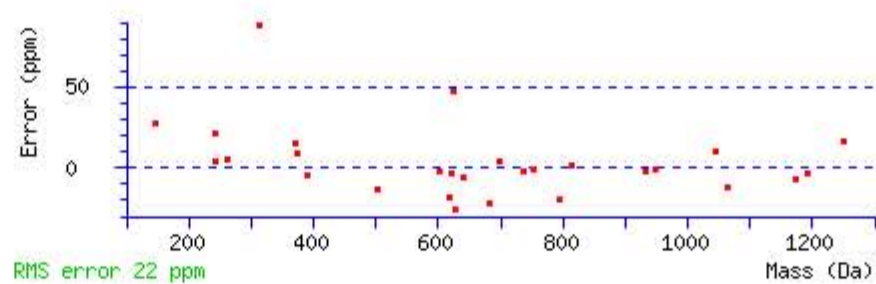
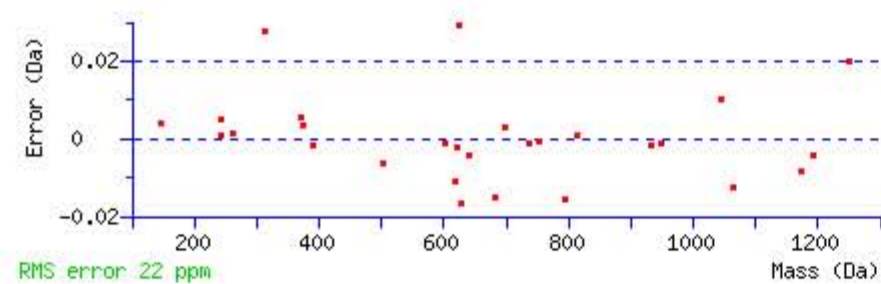
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.014

Matches : 28/100 fragment ions using 71 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							10
2	201.086983	101.047130			183.076418	92.041847	A	1322.750070	661.878673	1305.723521	653.365398	1304.739505	652.873390	9
3	<b>640.312309</b>	320.659793	<b>623.285760</b>	<b>312.146518</b>	<b>622.301744</b>	311.654510	Q	<b>1251.712956</b>	<b>626.360116</b>	1234.686407	617.846841	1233.702391	<b>617.354833</b>	8
4	<b>753.396373</b>	377.201825	736.369824	368.688550	<b>735.385808</b>	368.196542	L	<b>812.487630</b>	406.747453	<b>795.461081</b>	398.234178	794.477065	397.742170	7
5	850.449137	425.728207	833.422588	417.214932	832.438572	416.722924	P	<b>699.403566</b>	350.205421	<b>682.377017</b>	341.692146	681.393001	341.200138	6
6	<b>949.517551</b>	475.262414	932.491002	466.749139	<b>931.506986</b>	466.257131	V	<b>602.350802</b>	301.679039	585.324253	293.165764	584.340237	292.673756	5
7	<b>1062.601615</b>	531.804446	1045.575066	523.291171	<b>1044.591050</b>	522.799163	I	<b>503.282388</b>	252.144832	486.255839	243.631557	485.271823	<b>243.139549</b>	4
8	<b>1191.644208</b>	596.325742	1174.617659	587.812468	<b>1173.633643</b>	587.320459	E	<b>390.198324</b>	195.602800	<b>373.171775</b>	187.089525	<b>372.187759</b>	186.597517	3
9	1305.687135	653.347205	1288.660586	644.833931	1287.676570	644.341923	N	<b>261.155731</b>	131.081503	<b>244.129182</b>	122.568229			2
10							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EAQLPVIENK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
31.6	1450.785355	-0.003247	<a href="#">EAQLPVIENK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **EQQCVIMAENR**

Found in **PLGB\_HUMAN**, Plasminogen-like protein B OS=Homo sapiens GN=PLGLB1 PE=1 SV=1

Match to Query 33449: 1687.784052 from(563.601960,3+) rtinseconds(1830) index(59592)

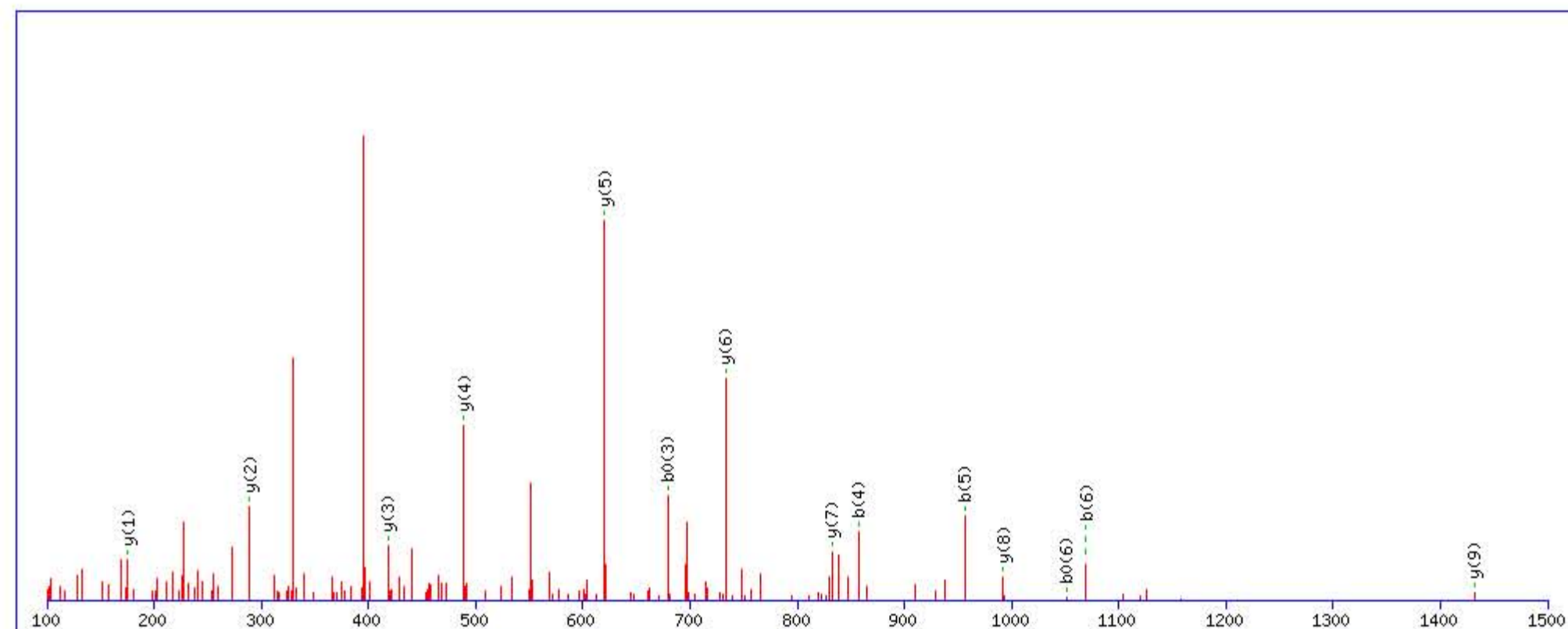
Title: Locus:1.1.1.1549.4 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1687.784393

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

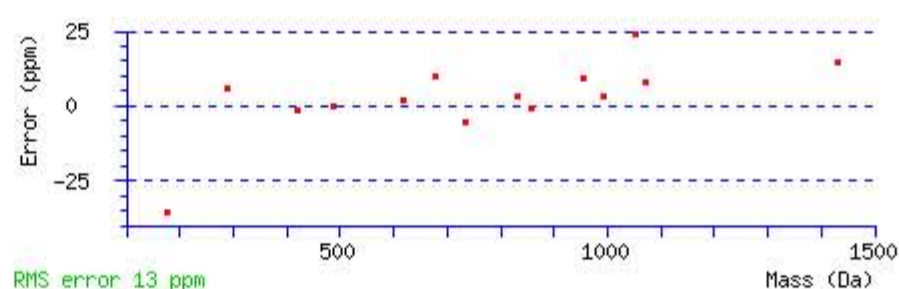
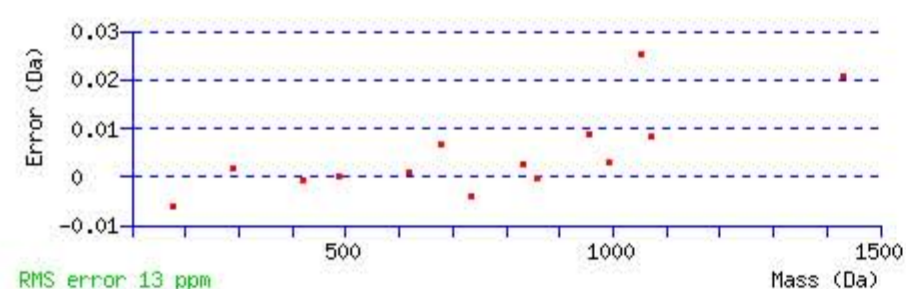
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 61 Expect: 1.9e-006

Matches : 14/114 fragment ions using 23 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							11
2	258.108447	129.557862	241.081898	121.044587	240.097882	120.552579	Q	1559.749102	780.378189	1542.722553	771.864915	1541.738537	771.372907	10
3	697.333773	349.170525	680.307224	340.657250	679.323208	340.165242	Q	1431.690524	716.348900	1414.663975	707.835626	1413.679959	707.343618	9
4	857.364422	429.185849	840.337873	420.672575	839.353857	420.180567	C	992.465198	496.736237	975.438649	488.222963	974.454633	487.730955	8
5	956.432836	478.720056	939.406287	470.206782	938.422271	469.714774	V	832.434549	416.720913	815.408000	408.207638	814.423984	407.715630	7
6	1069.516900	535.262088	1052.490351	526.748814	1051.506335	526.256806	I	733.366135	367.186706	716.339586	358.673431	715.355570	358.181423	6
7	1200.557385	600.782331	1183.530836	592.269056	1182.546820	591.777048	M	620.282071	310.644674	603.255522	302.131399	602.271506	301.639391	5
8	1271.594499	636.300888	1254.567950	627.787613	1253.583934	627.295605	A	489.241586	245.124431	472.215037	236.611156	471.231021	236.119148	4
9	1400.637092	700.822184	1383.610543	692.308910	1382.626527	691.816902	E	418.204472	209.605874	401.177923	201.092600	400.193907	200.600592	3
10	1514.680019	757.843648	1497.653470	749.330373	1496.669454	748.838365	N	289.161879	145.084577	272.135330	136.571303			2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [EQQCVIMAENR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
61.5	1687.784393	-0.000341	<a href="#">EQQCVIMAENR</a>
59.7	1687.784393	-0.000341	<a href="#">EQQCVIMAENR</a>
0.4	1687.787552	-0.003500	<a href="#">GASEDGEYFLMIRGK</a>

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



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **EQQCHEMAENR**

Found in **PLGB\_HUMAN**, Plasminogen-like protein B OS=Homo sapiens GN=PLGLB1 PE=1 SV=1

Match to Query 33450: 1687.789148 from(844.901850,2+) rtinseconds(1824) index(59571)

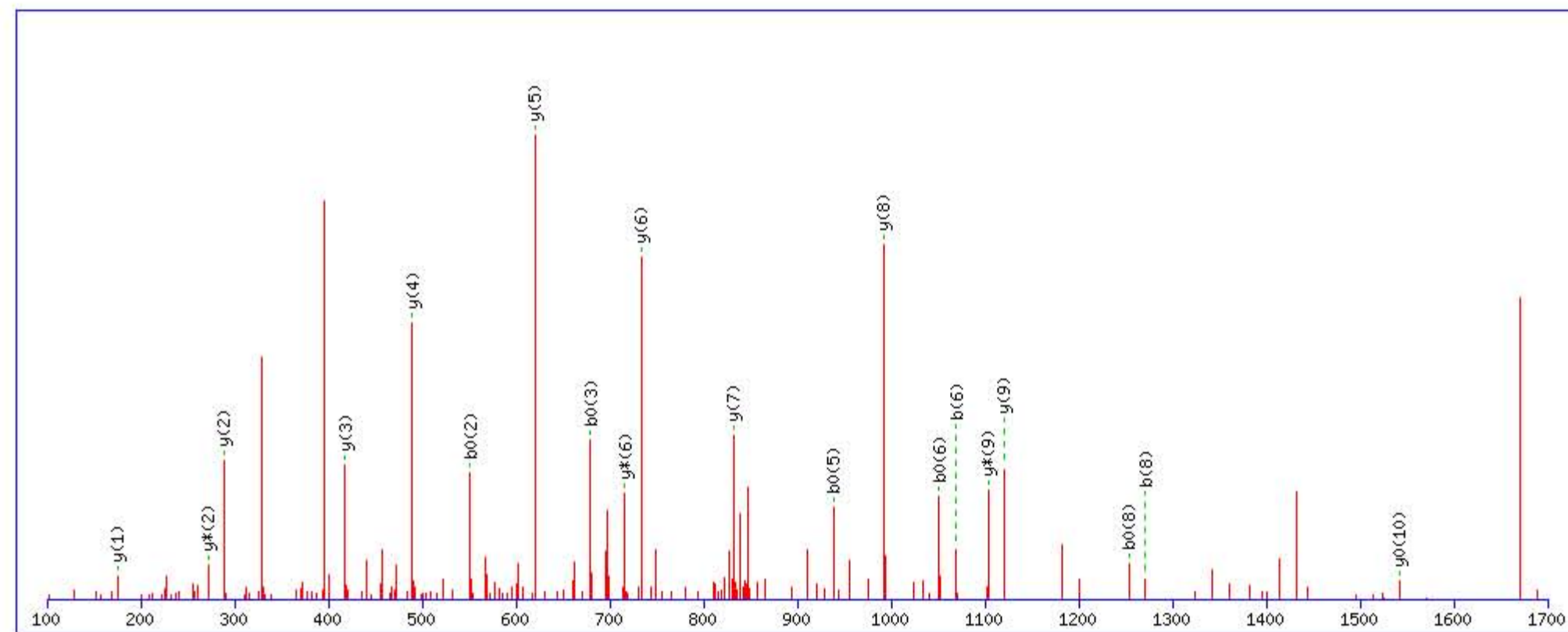
Title: Locus:1.1.1.1546.10 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1687.784393

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

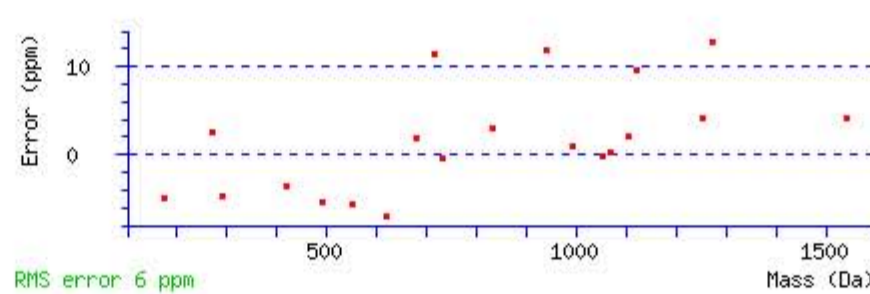
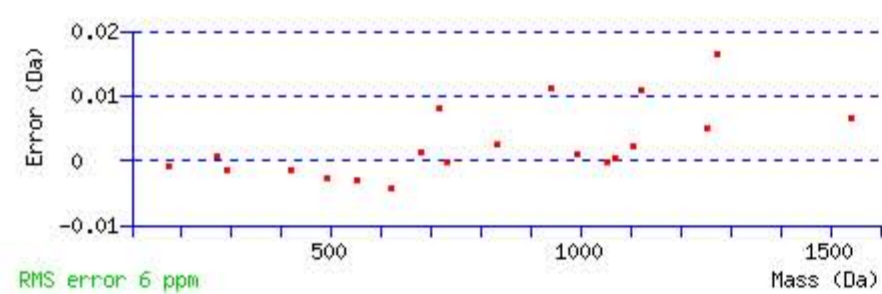
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 64 Expect: 2.7e-006

Matches : 20/114 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							11
2	569.275195	285.141236	552.248646	276.627961	551.264630	276.135953	Q	1559.749102	780.378189	1542.722553	771.864915	1541.738537	771.372907	10
3	697.333773	349.170525	680.307224	340.657250	679.323208	340.165242	Q	1120.523776	560.765526	1103.497227	552.252252	1102.513211	551.760244	9
4	857.364422	429.185849	840.337873	420.672575	839.353857	420.180567	C	992.465198	496.736237	975.438649	488.222963	974.454633	487.730955	8
5	956.432836	478.720056	939.406287	470.206782	938.422271	469.714774	V	832.434549	416.720913	815.408000	408.207638	814.423984	407.715630	7
6	1069.516900	535.262088	1052.490351	526.748814	1051.506335	526.256806	I	733.366135	367.186706	716.339586	358.673431	715.355570	358.181423	6
7	1200.557385	600.782331	1183.530836	592.269056	1182.546820	591.777048	M	620.282071	310.644674	603.255522	302.131399	602.271506	301.639391	5
8	1271.594499	636.300888	1254.567950	627.787613	1253.583934	627.295605	A	489.241586	245.124431	472.215037	236.611156	471.231021	236.119148	4
9	1400.637092	700.822184	1383.610543	692.308910	1382.626527	691.816902	E	418.204472	209.605874	401.177923	201.092600	400.193907	200.600592	3
10	1514.680019	757.843648	1497.653470	749.330373	1496.669454	748.838365	N	289.161879	145.084577	272.135330	136.571303			2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **EQQCHEMAENR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
63.9	1687.784393	0.004755	<a href="#">EQQCHEMAENR</a>
61.5	1687.784393	0.004755	<a href="#">EQQCHEMAENR</a>
4.2	1687.781006	0.008142	<a href="#">ELMAWNQAENR</a>
2.9	1687.773193	0.015955	<a href="#">FGAVCTCMEKATGLK</a>
1.8	1687.776093	0.013055	<a href="#">QQEEAQAAAAASAESR</a>
1.5	1687.773666	0.015482	<a href="#">TTGPPSGQMPDNPPHR</a>
0.0	1687.813370	-0.024222	<a href="#">MKQSPALAPEERCR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **APWCHTTNSQVR**

Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

Match to Query 34984: 1766.825922 from(589.949250,3+) rtinseconds(1568) index(29194)

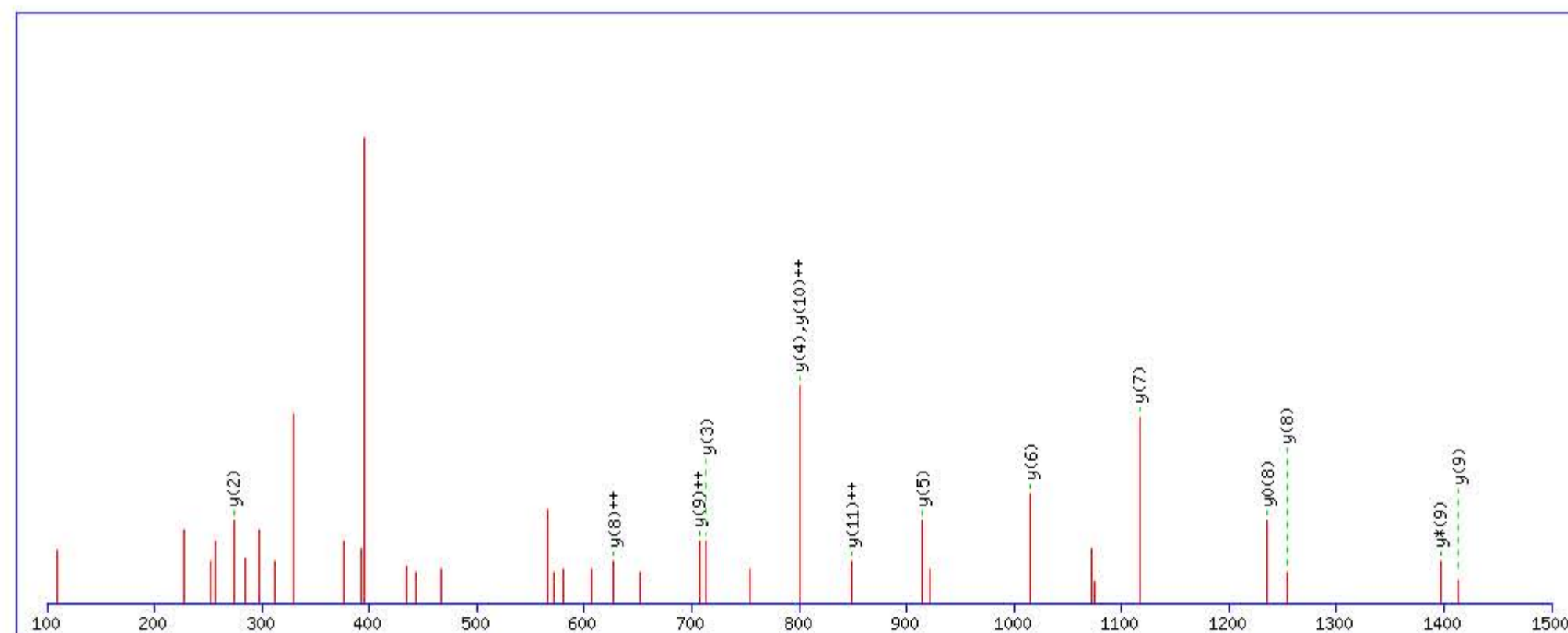
Title: Locus:1.1.1.3209.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1766.834488

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

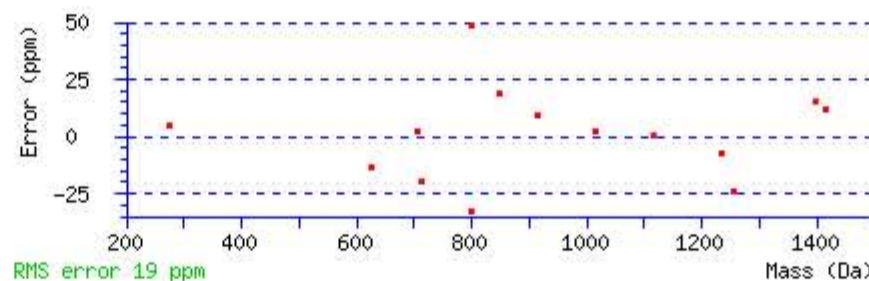
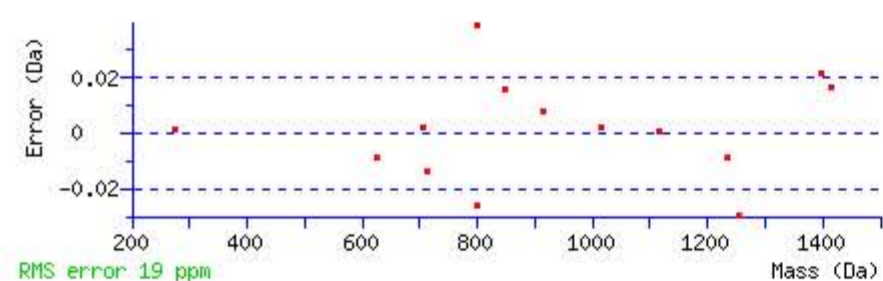
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 49 Expect: 0.00019

Matches : 14/102 fragment ions using 23 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							12
2	169.097154	85.052215					P	1696.804643	848.905960	1679.778094	840.392685	1678.794078	839.900677	11
3	355.176467	178.091872					W	1599.751879	800.379578	1582.725330	791.866303	1581.741314	791.374295	10
4	515.207116	258.107196					C	1413.672566	707.339921	1396.646017	698.826647	1395.662001	698.334639	9
5	652.266028	326.636652					H	1253.641917	627.324597	1236.615368	618.811322	1235.631352	618.319314	8
6	753.313707	377.160492			735.303142	368.155209	T	1116.583005	558.795141	1099.556456	550.281866	1098.572440	549.789858	7
7	854.361386	427.684331			836.350821	418.679049	T	1015.535326	508.271301	998.508777	499.758027	997.524761	499.266019	6
8	968.404313	484.705795	951.377764	476.192520	950.393748	475.700512	N	914.487647	457.747462	897.461098	449.234187	896.477082	448.742179	5
9	1055.436341	528.221809	1038.409792	519.708534	1037.425776	519.216526	S	800.444720	400.725998	783.418171	392.212724	782.434155	391.720716	4
10	1494.661667	747.834472	1477.635118	739.321197	1476.651102	738.829189	Q	713.412692	357.209984	696.386143	348.696710			3
11	1593.730081	797.368679	1576.703532	788.855404	1575.719516	788.363396	V	274.187366	137.597321	257.160817	129.084047			2
12							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **APWCHTTNSQVR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
49.0	1766.834488	-0.008566	<a href="#">APWCHTTNSQVR</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **EQQCHEMAENR**

Found in **PLGB\_HUMAN**, Plasminogen-like protein B OS=Homo sapiens GN=PLGLB1 PE=1 SV=1

Match to Query 39281: 1998.957132 from(667.326320,3+) rtinseconds(2139) index(61312)

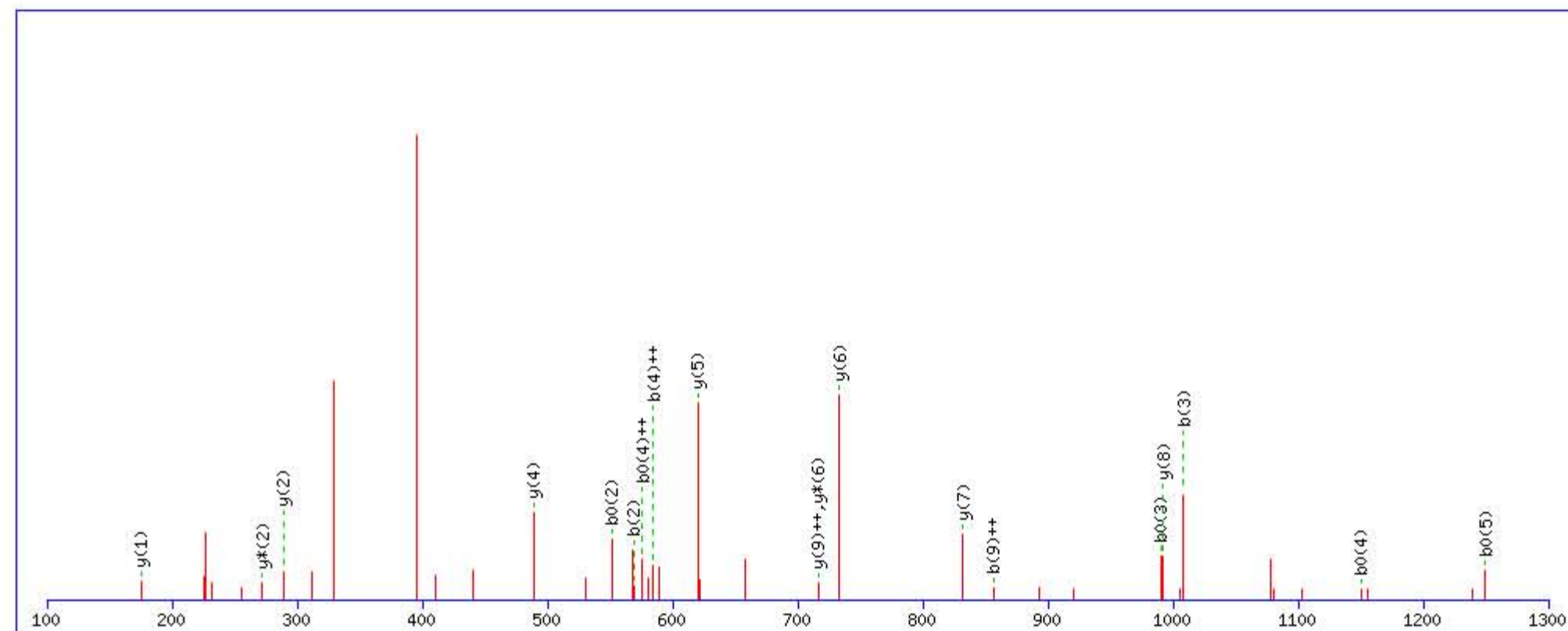
Title: Locus:1.1.1.1656.17 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1998.951141

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

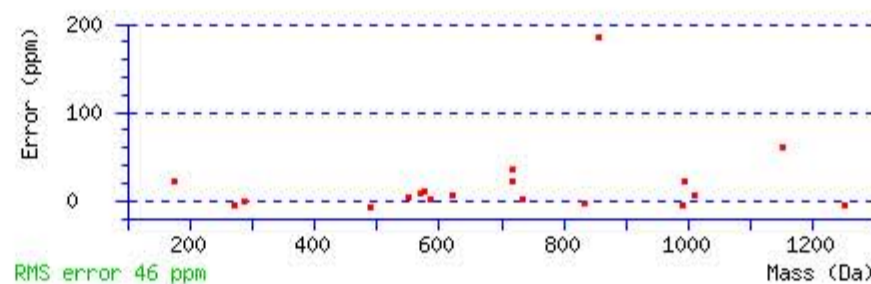
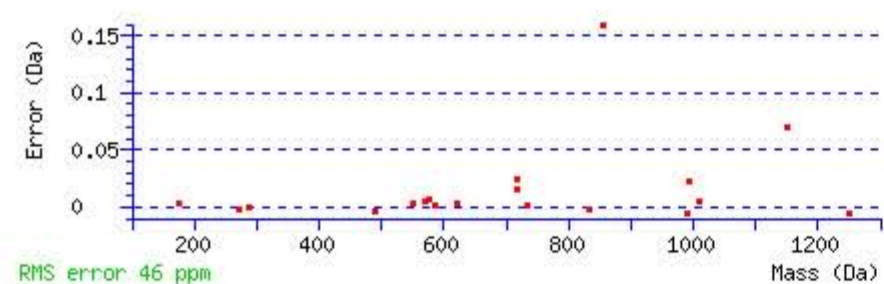
Q2 : Biotin:Thermo-21345 (Q)

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.0028

Matches : 19/114 fragment ions using 38 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							11
2	<b>569.275195</b>	285.141236	552.248646	276.627961	<b>551.264630</b>	276.135953	Q	1870.915850	935.961563	1853.889301	927.448288	1852.905285	926.956280	10
3	<b>1008.500521</b>	504.753899	991.473972	496.240624	<b>990.489956</b>	495.748616	Q	1431.690524	<b>716.348900</b>	1414.663975	707.835625	1413.679959	707.343617	9
4	1168.531170	<b>584.769223</b>	1151.504621	576.255949	<b>1150.520605</b>	<b>575.763940</b>	C	<b>992.465198</b>	496.736237	975.438649	488.222962	974.454633	487.730954	8
5	1267.599584	634.303430	1250.573035	625.790156	<b>1249.589019</b>	625.298148	V	<b>832.434549</b>	416.720912	815.408000	408.207638	814.423984	407.715630	7
6	1380.683648	690.845462	1363.657099	682.332188	1362.673083	681.840179	I	<b>733.366135</b>	367.186705	<b>716.339586</b>	358.673431	715.355570	358.181423	6
7	1511.724133	756.365704	1494.697584	747.852430	1493.713568	747.360422	M	<b>620.282071</b>	310.644673	603.255522	302.131399	602.271506	301.639391	5
8	1582.761247	791.884261	1565.734698	783.370987	1564.750682	782.878979	A	<b>489.241586</b>	245.124431	472.215037	236.611156	471.231021	236.119148	4
9	1711.803840	<b>856.405558</b>	1694.777291	847.892283	1693.793275	847.400275	E	418.204472	209.605874	401.177923	201.092599	400.193907	200.600591	3
10	1825.846767	913.427021	1808.820218	904.913747	1807.836202	904.421739	N	<b>289.161879</b>	145.084577	<b>272.135330</b>	136.571303			2
11							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [EQQCHEMAENR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
28.2	1998.951141	0.005991	<a href="#">EQQCHEMAENR</a>
1.0	1998.929138	0.027994	<a href="#">YEMLQDNVEGYRR</a>
0.1	1998.932526	0.024606	<a href="#">NVMNKVSEMSSFQR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **CTTPPPSSGPTYQCLK**

Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

Match to Query 41683: 2103.980472 from(702.334100,3+) rtinseconds(1757) index(59225)

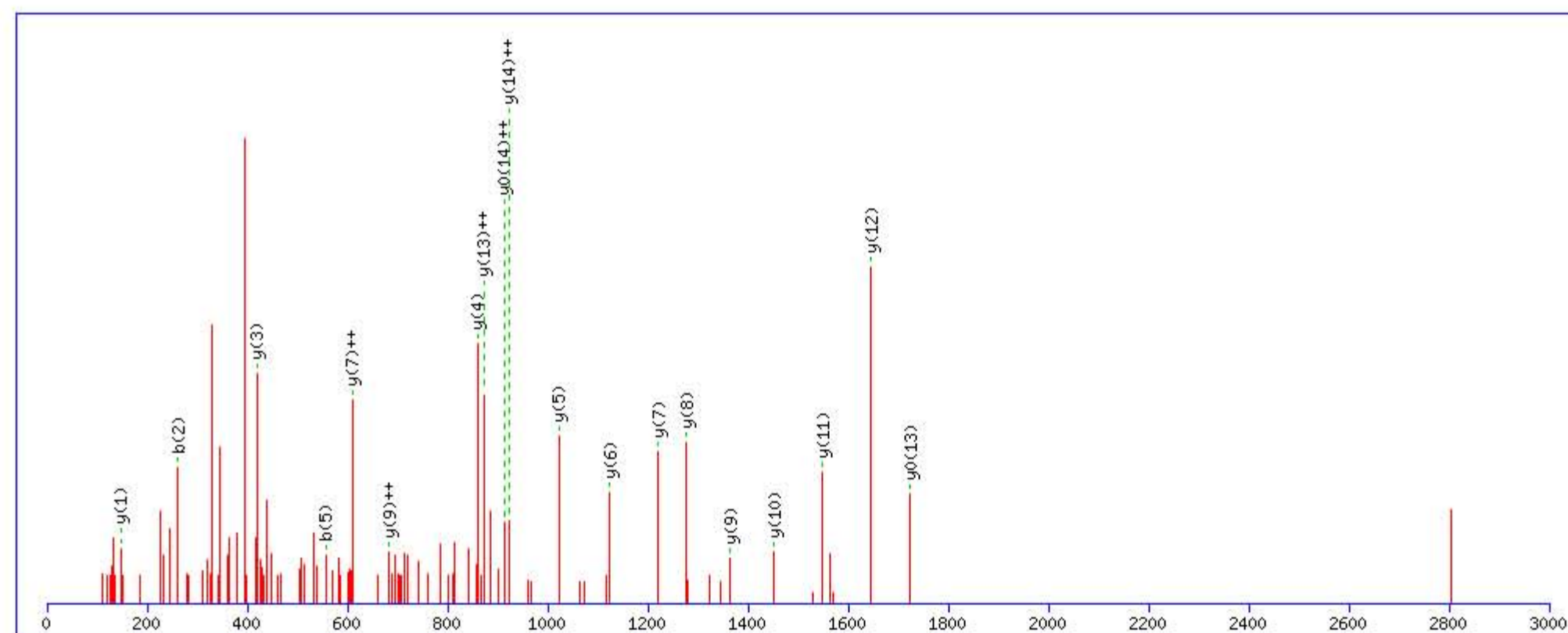
Title: Locus:1.1.1.1523.9 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2103.979172

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

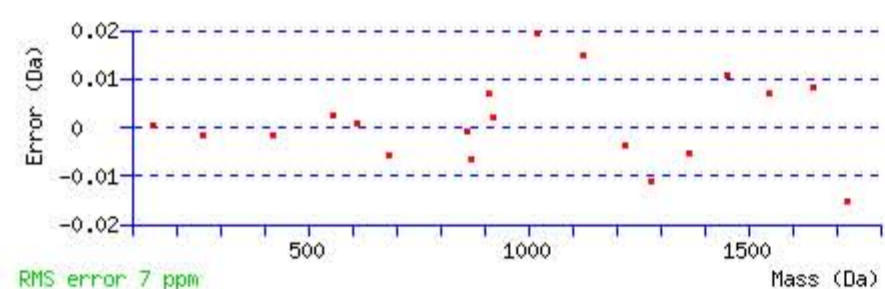
Variable modifications:

Q13 : Biotin:Thermo-21345 (Q)

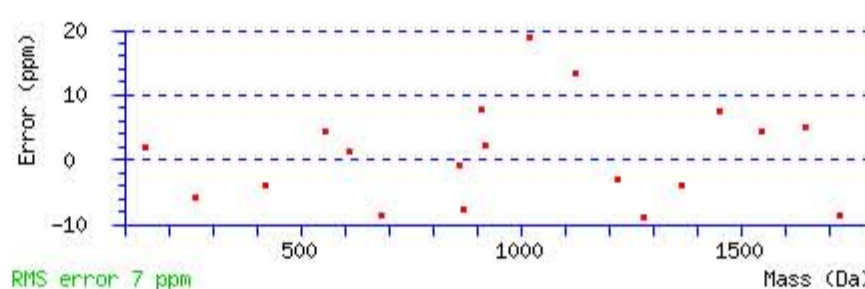
Ions Score: 75 Expect: 4.2e-007

Matches : 19/144 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	161.037925	81.022600					C							16
2	<b>262.085604</b>	131.546440			244.075039	122.541158	T	1944.955785	972.981531	1927.929236	964.468256	1926.945220	963.976248	15
3	363.133283	182.070280			345.122718	173.064997	T	1843.908106	<b>922.457691</b>	1826.881557	913.944417	1825.897541	<b>913.452409</b>	14
4	460.186047	230.596661			442.175482	221.591379	P	1742.860427	<b>871.933852</b>	1725.833878	863.420577	<b>1724.849862</b>	862.928569	13
5	<b>557.238811</b>	279.123044			539.228246	270.117761	P	<b>1645.807663</b>	823.407470	1628.781114	814.894195	1627.797098	814.402187	12
6	654.291575	327.649426			636.281010	318.644143	P	<b>1548.754899</b>	774.881088	1531.728350	766.367813	1530.744334	765.875805	11
7	741.323603	371.165440			723.313038	362.160157	S	<b>1451.702135</b>	726.354706	1434.675586	717.841431	1433.691570	717.349423	10
8	828.355631	414.681454			810.345066	405.676171	S	<b>1364.670107</b>	<b>682.838692</b>	1347.643558	674.325417	1346.659542	673.833409	9
9	885.377095	443.192186			867.366530	434.186903	G	<b>1277.638079</b>	639.322678	1260.611530	630.809403	1259.627514	630.317395	8
10	982.429859	491.718568			964.419294	482.713285	P	<b>1220.616615</b>	<b>610.811946</b>	1203.590066	602.298671	1202.606050	601.806663	7
11	1083.477538	542.242407			1065.466973	533.237125	T	<b>1123.563851</b>	562.285564	1106.537302	553.772289	1105.553286	553.280281	6
12	1246.540867	623.774072			1228.530302	614.768789	Y	<b>1022.516172</b>	511.761724	1005.489623	503.248450			5
13	1685.766193	843.386735	1668.739644	834.873460	1667.755628	834.381452	Q	<b>859.452843</b>	430.230060	842.426294	421.716785			4
14	1845.796842	923.402059	1828.770293	914.888785	1827.786277	914.396777	C	<b>420.227517</b>	210.617396	403.200968	202.104122			3
15	1958.880906	979.944091	1941.854357	971.430817	1940.870341	970.938809	L	260.196868	130.602072	243.170319	122.088797			2
16							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



RMS error 7 ppm



RMS error 7 ppm

NCBI BLAST search of [CTTPPPSSGPTYQCLK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
75.1	2103.979172	0.001300	<a href="#">CTTPPPSSGPTYQCLK</a>
7.0	2103.964554	0.015918	<a href="#">TAADTPAIMNWDLFFTMK</a>

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

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **ATTVTGTPCQDWAAQEPHR**

Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

Match to Query 47056: 2436.139272 from(813.053700,3+) rtinseconds(1875) index(59749)

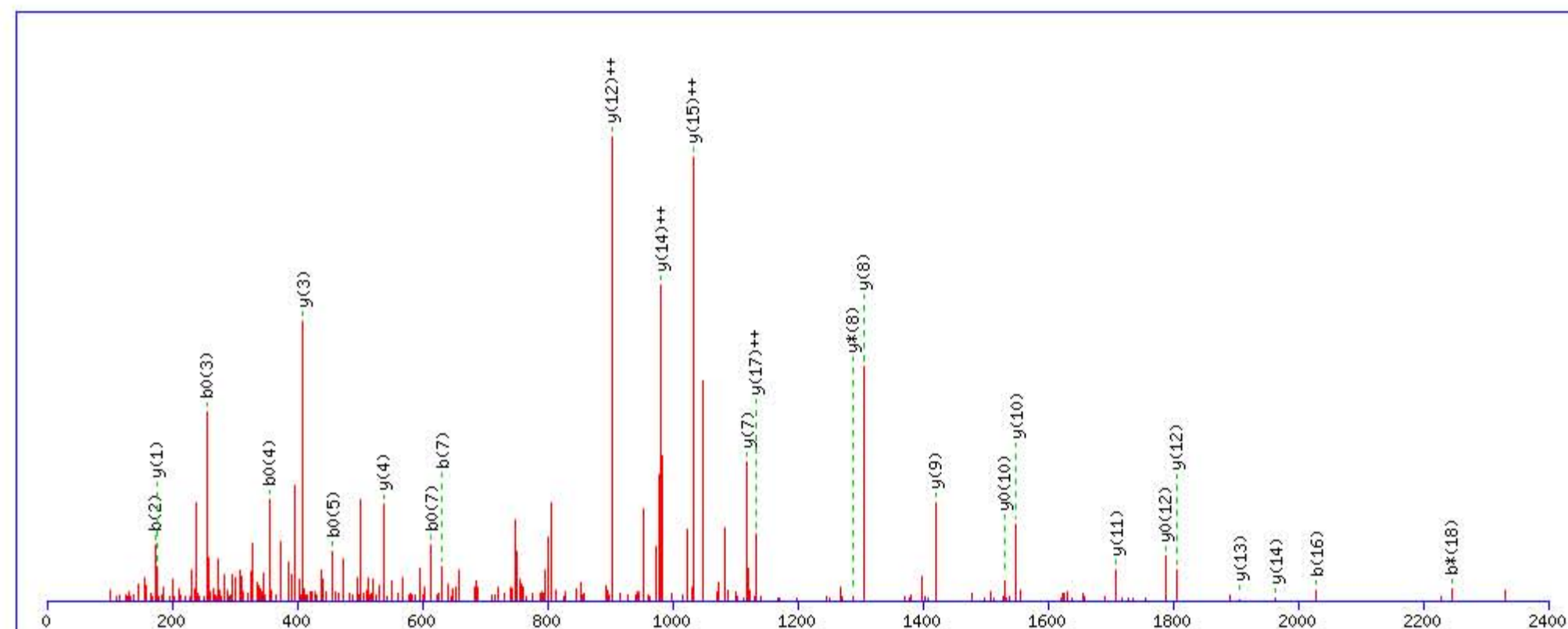
Title: Locus:1.1.1.1564.10 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2436.131470

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

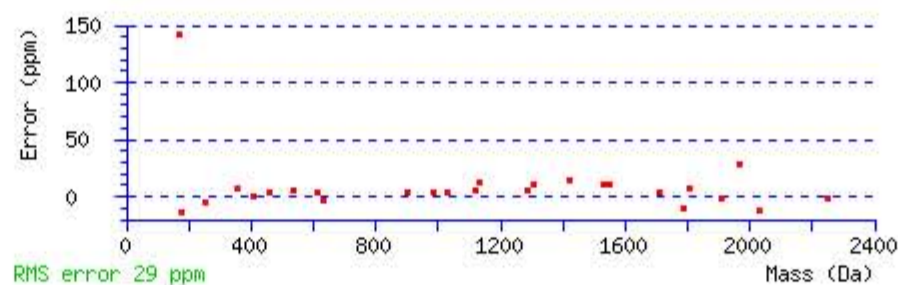
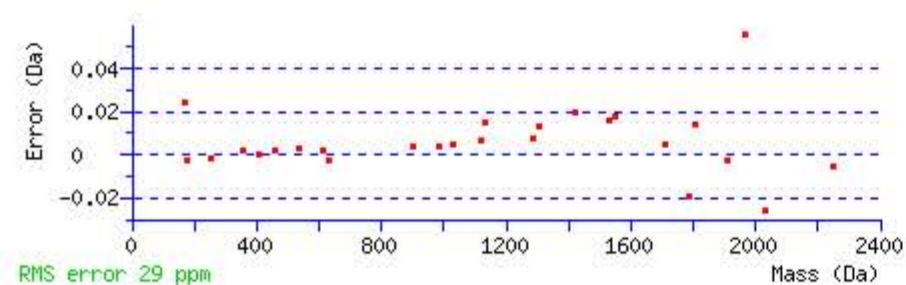
Variable modifications:

Q15 : Biotin:Thermo-21345 (Q)

Ions Score: 67 Expect: 3.3e-006

Matches : 26/190 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							19
2	<b>173.092069</b>	87.049672			155.081504	78.044390	T	2366.101616	1183.554446	2349.075067	1175.041171	2348.091051	1174.549163	18
3	274.139748	137.573512			<b>256.129183</b>	128.568230	T	2265.053937	<b>1133.030606</b>	2248.027388	1124.517332	2247.043372	1124.025324	17
4	373.208162	187.107719			<b>355.197597</b>	178.102437	V	2164.006258	1082.506767	2146.979709	1073.993492	2145.995693	1073.501484	16
5	474.255841	237.631559			<b>456.245276</b>	228.626276	T	2064.937844	<b>1032.972560</b>	2047.911295	1024.459285	2046.927279	1023.967277	15
6	531.277305	266.142291			513.266740	257.137008	G	<b>1963.890165</b>	<b>982.448721</b>	1946.863616	973.935446	1945.879600	973.443438	14
7	<b>632.324984</b>	316.666130			<b>614.314419</b>	307.660848	T	<b>1906.868701</b>	953.937989	1889.842152	945.424714	1888.858136	944.932706	13
8	729.377748	365.192512			711.367183	356.187230	P	<b>1805.821022</b>	<b>903.414149</b>	1788.794473	894.900875	<b>1787.810457</b>	894.408867	12
9	889.408397	445.207837			871.397832	436.202554	C	<b>1708.768258</b>	854.887767	1691.741709	846.374493	1690.757693	845.882485	11
10	1017.466975	509.237126	1000.440426	500.723851	999.456410	500.231843	Q	<b>1548.737609</b>	774.872443	1531.711060	766.359168	<b>1530.727044</b>	765.867160	10
11	1132.493918	566.750597	1115.467369	558.237323	1114.483353	557.745315	D	<b>1420.679031</b>	710.843154	1403.652482	702.329879	1402.668466	701.837871	9
12	1318.573231	659.790254	1301.546682	651.276979	1300.562666	650.784971	W	<b>1305.652088</b>	653.329682	<b>1288.625539</b>	644.816408	1287.641523	644.324400	8
13	1389.610345	695.308811	1372.583796	686.795536	1371.599780	686.303528	A	<b>1119.572775</b>	560.290026	1102.546226	551.776751	1101.562210	551.284743	7
14	1460.647459	730.827368	1443.620910	722.314093	1442.636894	721.822085	A	1048.535661	524.771469	1031.509112	516.258194	1030.525096	515.766186	6
15	1899.872785	950.440031	1882.846236	941.926756	1881.862220	941.434748	Q	977.498547	489.252912	960.471998	480.739637	959.487982	480.247629	5
16	<b>2028.915378</b>	1014.961327	2011.888829	1006.448053	2010.904813	1005.956045	E	<b>538.273221</b>	269.640249	521.246672	261.126974	520.262656	260.634966	4
17	2125.968142	1063.487709	2108.941593	1054.974434	2107.957577	1054.482427	P	<b>409.230628</b>	205.118952	392.204079	196.605677			3
18	2263.027054	1132.017165	<b>2246.000505</b>	1123.503890	2245.016489	1123.011883	H	312.177864	156.592570	295.151315	148.079295			2
19							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [ATTVTGTPCQDWAAQEPHR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
66.8	2436.131470	0.007802	<a href="#">ATTVTGTPCQDWAAQEPHR</a>
35.0	2436.131470	0.007802	<a href="#">ATTVTGTPCQDWAAQEPHR</a>

**MASCOT** Mascot Search Results

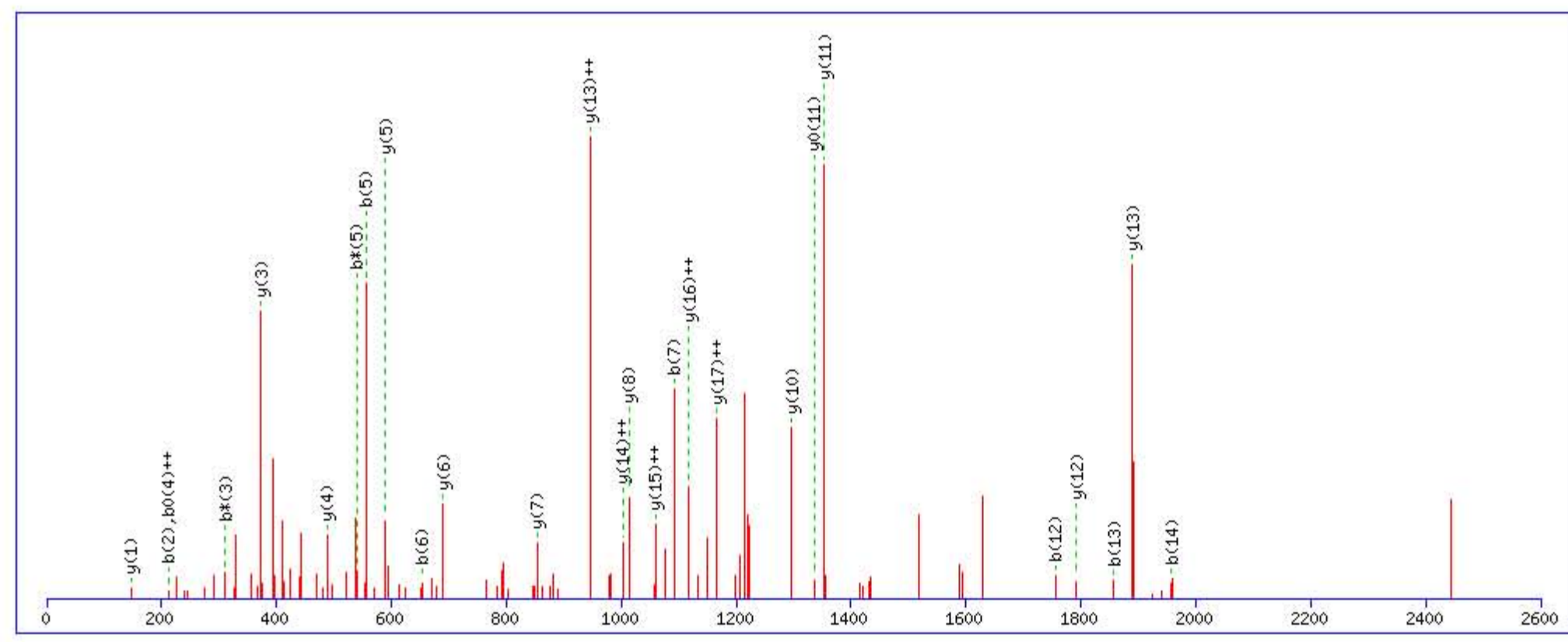
**Peptide View**

MS/MS Fragmentation of **NPDNDPQGPWCYTIDPEK**

Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

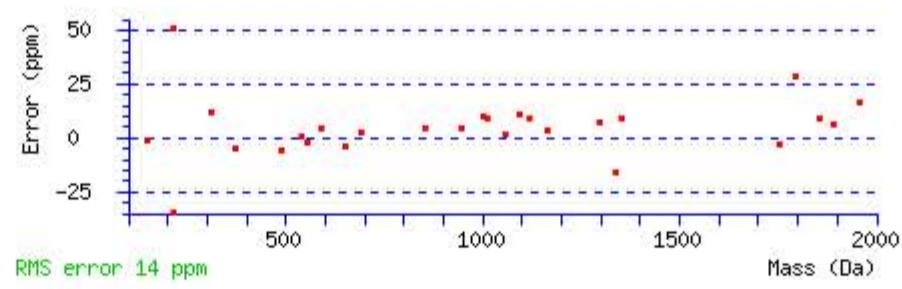
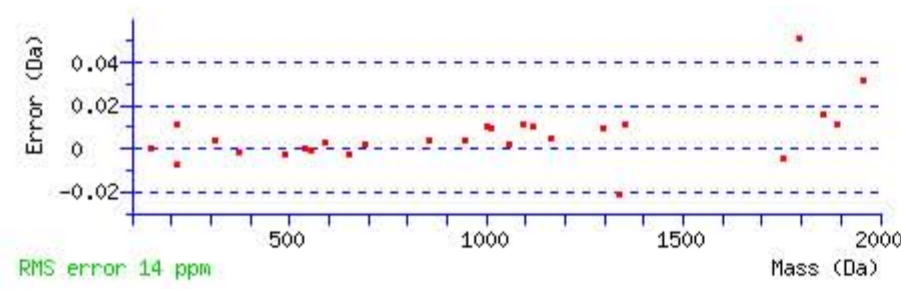
Match to Query 47178: 2444.045488 from(1223.030020,2+) rtinseconds(2102) index(61114)  
 Title: Locus:1.1.1.1643.11 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2444.041306  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q7 : Biotin:Thermo-21345 (Q)  
 Ions Score: 61 Expect: 5.8e-006  
 Matches : 27/198 fragment ions using 50 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							18
2	<b>212.102967</b>	106.555121	195.076418	98.041847			P	2331.005648	<b>1166.006462</b>	2313.979099	1157.493187	2312.995083	1157.001179	17
3	327.129910	164.068593	<b>310.103361</b>	155.555319	309.119345	155.063311	D	2233.952884	<b>1117.480080</b>	2216.926335	1108.966805	2215.942319	1108.474797	16
4	441.172837	221.090057	424.146288	212.576782	423.162272	<b>212.084774</b>	N	2118.925941	<b>1059.966608</b>	2101.899392	1051.453334	2100.915376	1050.961326	15
5	<b>556.199780</b>	278.603528	<b>539.173231</b>	270.090254	538.189215	269.598246	D	2004.883014	<b>1002.945145</b>	1987.856465	994.431871	1986.872449	993.939863	14
6	<b>653.252544</b>	327.129910	636.225995	318.616636	635.241979	318.124628	P	<b>1889.856071</b>	<b>945.431673</b>	1872.829522	936.918399	1871.845506	936.426391	13
7	<b>1092.477870</b>	546.742573	1075.451321	538.229299	1074.467305	537.737290	Q	<b>1792.803307</b>	896.905291	1775.776758	888.392017	1774.792742	887.900009	12
8	1149.499334	575.253305	1132.472785	566.740030	1131.488769	566.248022	G	<b>1353.577981</b>	677.292629	1336.551432	668.779354	<b>1335.567416</b>	668.287346	11
9	1246.552098	623.779687	1229.525549	615.266413	1228.541533	614.774404	P	<b>1296.556517</b>	648.781897	1279.529968	640.268622	1278.545952	639.776614	10
10	1432.631411	716.819343	1415.604862	708.306069	1414.620846	707.814061	W	1199.503753	600.255515	1182.477204	591.742240	1181.493188	591.250232	9
11	1592.662060	796.834668	1575.635511	788.321394	1574.651495	787.829385	C	<b>1013.424440</b>	507.215858	996.397891	498.702584	995.413875	498.210576	8
12	<b>1755.725389</b>	878.366333	1738.698840	869.853058	1737.714824	869.361050	Y	<b>853.393791</b>	427.200534	836.367242	418.687259	835.383226	418.195251	7
13	<b>1856.773068</b>	928.890172	1839.746519	920.376898	1838.762503	919.884889	T	<b>690.330462</b>	345.668869	673.303913	337.155595	672.319897	336.663587	6
14	<b>1957.820747</b>	979.414012	1940.794198	970.900737	1939.810182	970.408729	T	<b>589.282783</b>	295.145030	572.256234	286.631755	571.272218	286.139747	5
15	2072.847690	1036.927483	2055.821141	1028.414208	2054.837125	1027.922200	D	<b>488.235104</b>	244.621190	471.208555	236.107915	470.224539	235.615907	4
16	2169.900454	1085.453865	2152.873905	1076.940590	2151.889889	1076.448582	P	<b>373.208161</b>	187.107719	356.181612	178.594444	355.197596	178.102436	3
17	2298.943047	1149.975161	2281.916498	1141.461887	2280.932482	1140.969879	E	276.155397	138.581337	259.128848	130.068062	258.144832	129.576054	2
18							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [NPDNDPQGPWCYTIDPEK](#)  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	$M_r(\text{calc})$	Delta	Sequence
60.7	2444.041306	0.004182	<a href="#">NPDNDPQGPWCYTIDPEK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VVGGCVAHPHSWPWQVSLR**

Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

Match to Query 47998: 2482.254616 from(621.570930,4+) rtinseconds(2213) index(61710)

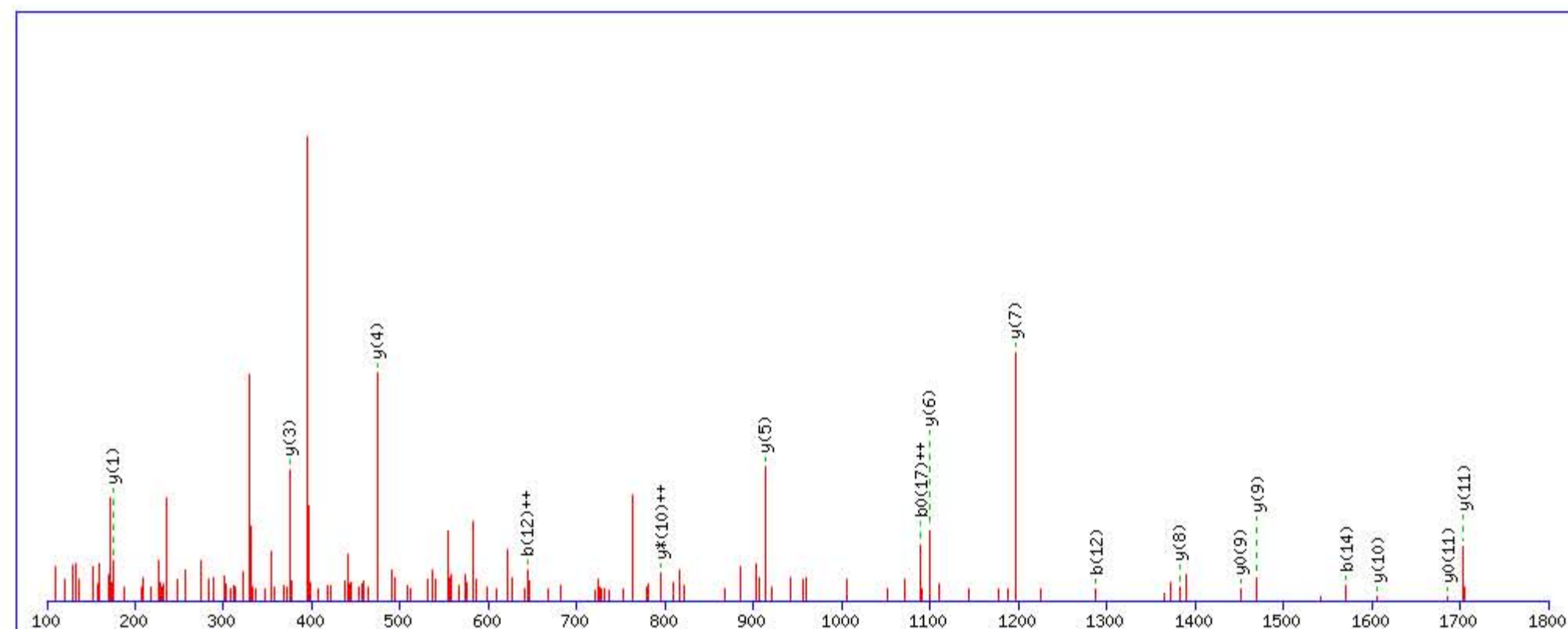
Title: Locus:1.1.1.1682.12 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2482.251480

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

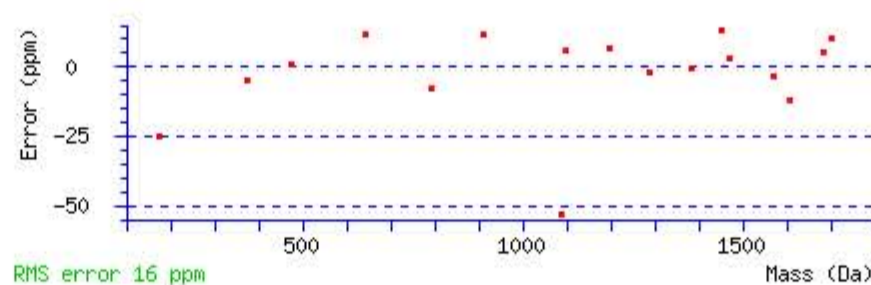
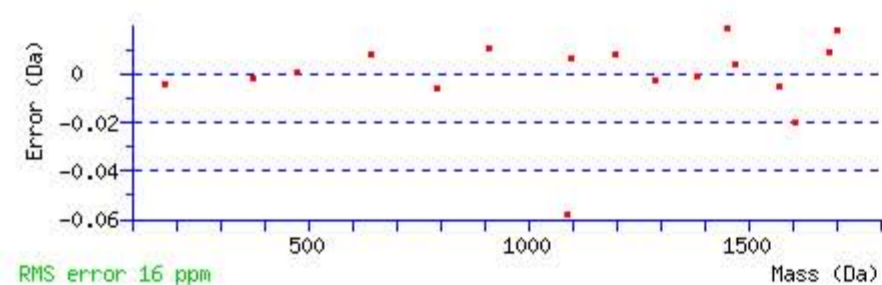
Variable modifications:

Q15 : Biotin:Thermo-21345 (Q)

Ions Score: 36 Expect: 0.00068

Matches : 17/164 fragment ions using 46 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							19
2	199.144104	100.075690					V	2384.190309	1192.598792	2367.163760	1184.085518	2366.179744	1183.593510	18
3	256.165568	128.586422					G	2285.121895	1143.064585	2268.095346	1134.551311	2267.111330	1134.059303	17
4	313.187032	157.097154					G	2228.100431	1114.553853	2211.073882	1106.040579	2210.089866	1105.548571	16
5	473.217681	237.112479					C	2171.078967	1086.043121	2154.052418	1077.529847	2153.068402	1077.037839	15
6	572.286095	286.646686					V	2011.048318	1006.027797	1994.021769	997.514523	1993.037753	997.022515	14
7	643.323209	322.165243					A	1911.979904	956.493590	1894.953355	947.980316	1893.969339	947.488308	13
8	780.382121	390.694699					H	1840.942790	920.975033	1823.916241	912.461759	1822.932225	911.969751	12
9	877.434885	439.221081					P	<b>1703.883878</b>	852.445577	1686.857329	843.932303	<b>1685.873313</b>	843.440295	11
10	1014.493797	507.750537					H	<b>1606.831114</b>	803.919195	1589.804565	<b>795.405921</b>	1588.820549	794.913913	10
11	1101.525825	551.266550			1083.515260	542.261268	S	<b>1469.772202</b>	735.389739	1452.745653	726.876465	<b>1451.761637</b>	726.384457	9
12	<b>1287.605138</b>	<b>644.306207</b>			1269.594573	635.300924	W	<b>1382.740174</b>	691.873725	1365.713625	683.360451	1364.729609	682.868443	8
13	1384.657902	692.832589			1366.647337	683.827306	P	<b>1196.660861</b>	598.834069	1179.634312	590.320794	1178.650296	589.828786	7
14	<b>1570.737215</b>	<b>785.872245</b>			1552.726650	776.866963	W	<b>1099.608097</b>	550.307687	1082.581548	541.794412	1081.597532	541.302404	6
15	2009.962541	1005.484909	1992.935992	996.971634	1991.951976	996.479626	Q	<b>913.528784</b>	457.268030	896.502235	448.754756	895.518219	448.262748	5
16	2109.030955	1055.019115	2092.004406	1046.505841	2091.020390	1046.013833	V	<b>474.303458</b>	237.655367	457.276909	229.142092	456.292893	228.650084	4
17	2196.062983	1098.535129	2179.036434	1090.021855	2178.052418	<b>1089.529847</b>	S	<b>375.235044</b>	188.121160	358.208495	179.607886	357.224479	179.115878	3
18	2309.147047	1155.077161	2292.120498	1146.563887	2291.136482	1146.071879	L	288.203016	144.605146	271.176467	136.091872			2
19							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VVGGCVAHPHSWPWQVSLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
35.6	2482.251480	0.003136	<a href="#">VVGGCVAHPHSWPWQVSLR</a>
1.8	2482.232178	0.022438	<a href="#">SFCAAVLQGASFVRLGGRSCSPR</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **VILGAHQEVNLEPHVQEIIVSR**

Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

Match to Query 51626: 2806.488416 from(702.629380,4+) rtinseconds(2109) index(61151)

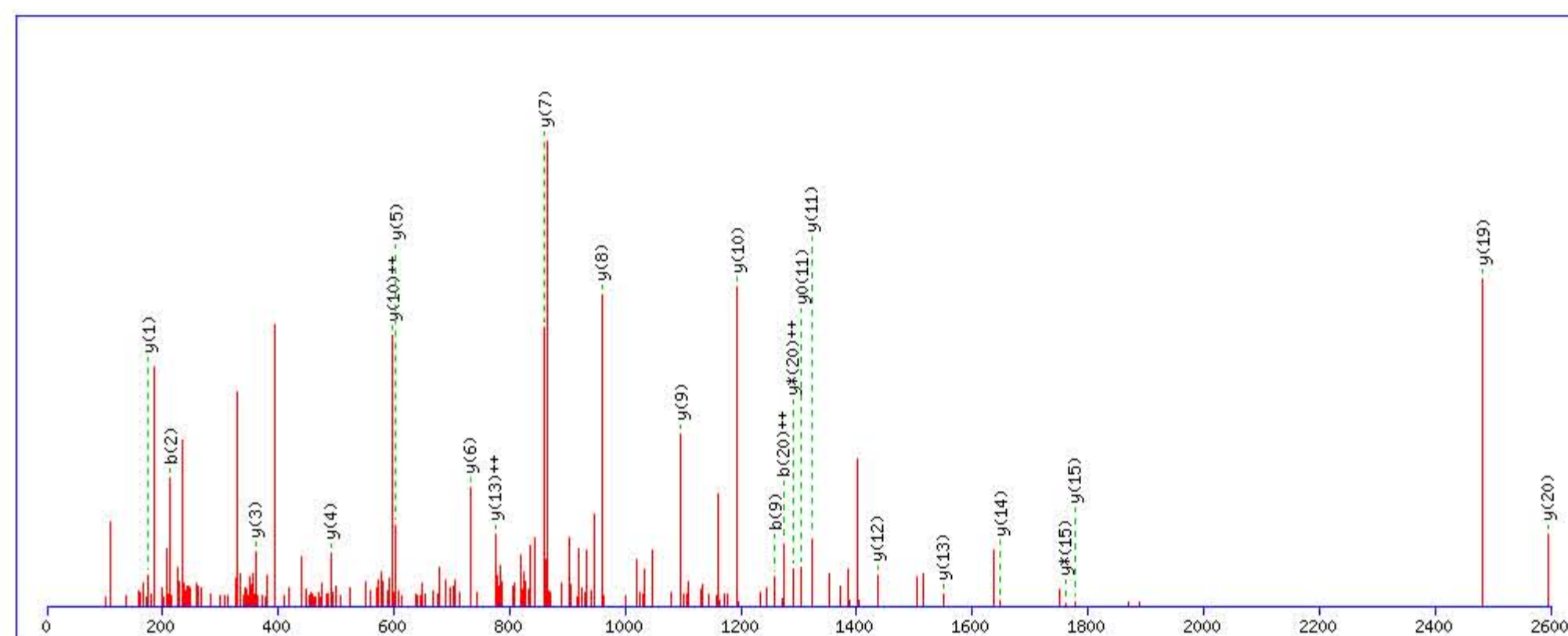
Title: Locus:1.1.1.1646.6 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2806.479965

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

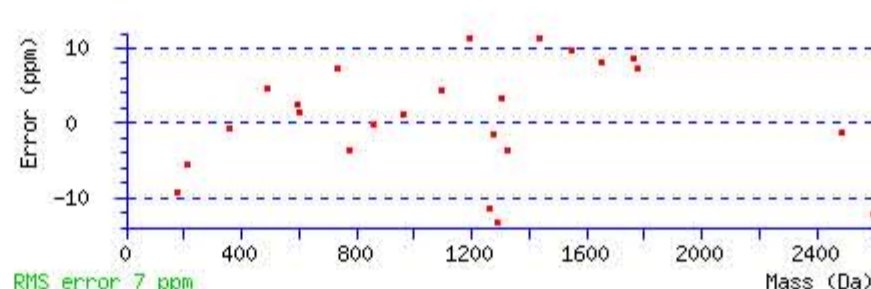
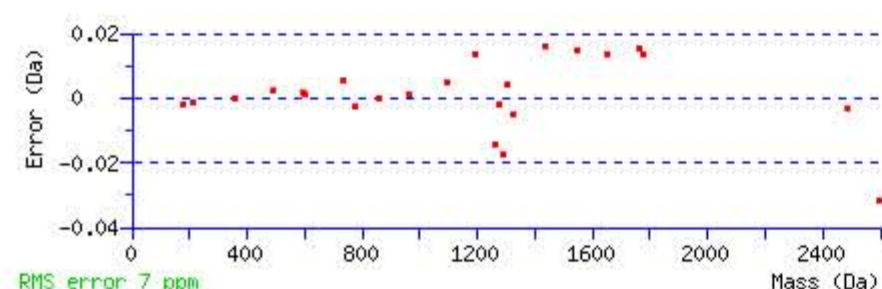
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 84 Expect: 8.2e-008

Matches : 24/224 fragment ions using 55 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							22
2	<b>213.159754</b>	107.083515					I	2708.418847	1354.713061	2691.392298	1346.199787	2690.408282	1345.707779	21
3	326.243818	163.625547					L	<b>2595.334783</b>	1298.171029	2578.308234	<b>1289.657755</b>	2577.324218	1289.165747	20
4	383.265282	192.136279					G	<b>2482.250719</b>	1241.628997	2465.224170	1233.115723	2464.240154	1232.623715	19
5	454.302396	227.654836					A	2425.229255	1213.118265	2408.202706	1204.604991	2407.218690	1204.112983	18
6	591.361308	296.184292					H	2354.192141	1177.599708	2337.165592	1169.086434	2336.181576	1168.594426	17
7	1030.586634	515.796955	1013.560085	507.283681			Q	2217.133229	1109.070252	2200.106680	1100.556978	2199.122664	1100.064970	16
8	1159.629227	580.318252	1142.602678	571.804977	1141.618662	571.312969	E	<b>1777.907903</b>	889.457590	<b>1760.881354</b>	880.944315	1759.897338	880.452307	15
9	<b>1258.697641</b>	629.852459	1241.671092	621.339184	1240.687076	620.847176	V	<b>1648.865310</b>	824.936293	1631.838761	816.423019	1630.854745	815.931011	14
10	1372.740568	686.873922	1355.714019	678.360648	1354.730003	677.868640	N	<b>1549.796896</b>	<b>775.402086</b>	1532.770347	766.888812	1531.786331	766.396804	13
11	1485.824632	743.415954	1468.798083	734.902680	1467.814067	734.410672	L	<b>1435.753969</b>	718.380623	1418.727420	709.867348	1417.743404	709.375340	12
12	1614.867225	807.937251	1597.840676	799.423976	1596.856660	798.931968	E	<b>1322.669905</b>	661.838591	1305.643356	653.325316	<b>1304.659340</b>	652.833308	11
13	1711.919989	856.463633	1694.893440	847.950358	1693.909424	847.458350	P	<b>1193.627312</b>	<b>597.317294</b>	1176.600763	588.804020	1175.616747	588.312012	10
14	1848.978901	924.993089	1831.952352	916.479814	1830.968336	915.987806	H	<b>1096.574548</b>	548.790912	1079.547999	540.277638	1078.563983	539.785630	9
15	1948.047315	974.527296	1931.020766	966.014021	1930.036750	965.522013	V	<b>959.515636</b>	480.261456	942.489087	471.748182	941.505071	471.256174	8
16	2076.105893	1038.556584	2059.079344	1030.043310	2058.095328	1029.551302	Q	<b>860.447222</b>	430.727249	843.420673	422.213975	842.436657	421.721967	7
17	2205.148486	1103.077881	2188.121937	1094.564606	2187.137921	1094.072598	E	<b>732.388644</b>	366.697960	715.362095	358.184686	714.378079	357.692678	6
18	2318.232550	1159.619913	2301.206001	1151.106638	2300.221985	1150.614631	I	<b>603.346051</b>	302.176664	586.319502	293.663389	585.335486	293.171381	5
19	2447.275143	1224.141210	2430.248594	1215.627935	2429.264578	1215.135927	E	<b>490.261987</b>	245.634631	473.235438	237.121357	472.251422	236.629349	4
20	2546.343557	<b>1273.675417</b>	2529.317008	1265.162142	2528.332992	1264.670134	V	<b>361.219394</b>	181.113335	344.192845	172.600060	343.208829	172.108052	3
21	2633.375585	1317.191431	2616.349036	1308.678156	2615.365020	1308.186148	S	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	2
22							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [VILGAHQEVNLEPHVQEIIVSR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
84.0	2806.479965	0.008451	<a href="#">VILGAHQEVNLEPHVQEIIVSR</a>
12.0	2806.479965	0.008451	<a href="#">VILGAHQEVNLEPHVQEIIVSR</a>



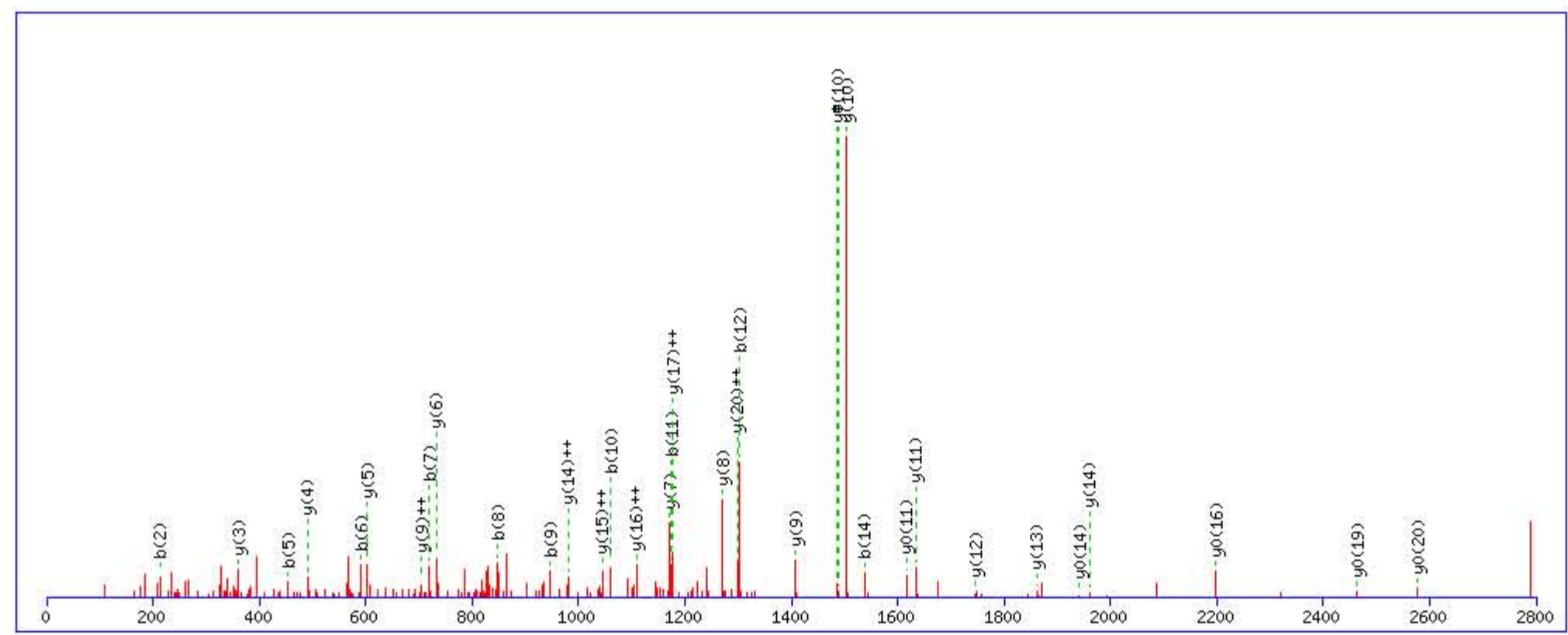
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VILGAHQEVNLEPHVQEIEVSR**  
 Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

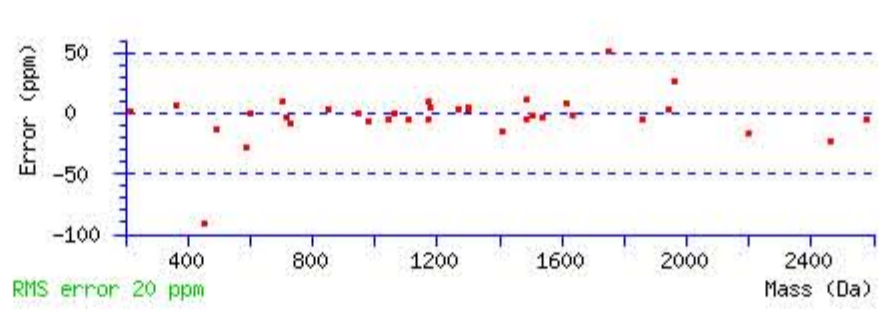
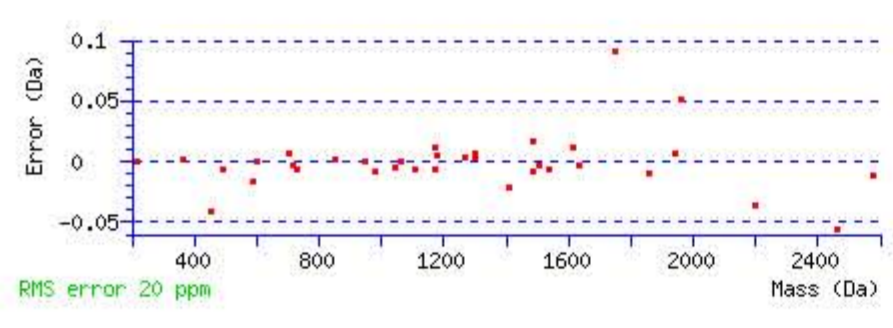
Match to Query 51628: 2806.491132 from(936.504320,3+) rtinseconds(2068) index(60951)  
 Title: Locus:1.1.1.1631.15 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2806.479965  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q16 : Biotin:Thermo-21345 (Q)  
 Ions Score: 73 Expect: 1.6e-007  
 Matches : 35/224 fragment ions using 62 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							22
2	<b>213.159754</b>	107.083515					I	2708.418847	1354.713061	2691.392298	1346.199787	2690.408282	1345.707779	21
3	326.243818	163.625547					L	2595.334783	<b>1298.171029</b>	2578.308234	1289.657755	<b>2577.324218</b>	1289.165747	20
4	383.265282	192.136279					G	2482.250719	1241.628997	2465.224170	1233.115723	<b>2464.240154</b>	1232.623715	19
5	<b>454.302396</b>	227.654836					A	2425.229255	1213.118265	2408.202706	1204.604991	2407.218690	1204.112983	18
6	<b>591.361308</b>	296.184292					H	2354.192141	<b>1177.599708</b>	2337.165592	1169.086434	2336.181576	1168.594426	17
7	<b>719.419886</b>	360.213581	702.393337	351.700307			Q	2217.133229	<b>1109.070252</b>	2200.106680	1100.556978	<b>2199.122664</b>	1100.064970	16
8	<b>848.462479</b>	424.734878	831.435930	416.221603	830.451914	415.729595	E	2089.074651	<b>1045.040963</b>	2072.048102	1036.527689	2071.064086	1036.035681	15
9	<b>947.530893</b>	474.269085	930.504344	465.755810	929.520328	465.263802	V	<b>1960.032058</b>	<b>980.519667</b>	1943.005509	972.006393	<b>1942.021493</b>	971.514385	14
10	<b>1061.573820</b>	531.290548	1044.547271	522.777274	1043.563255	522.285266	N	<b>1860.963644</b>	930.985460	1843.937095	922.472186	1842.953079	921.980178	13
11	<b>1174.657884</b>	587.832580	1157.631335	579.319306	1156.647319	578.827297	L	<b>1746.920717</b>	873.963997	1729.894168	865.450722	1728.910152	864.958714	12
12	<b>1303.700477</b>	652.353877	1286.673928	643.840602	1285.689912	643.348594	E	<b>1633.836653</b>	817.421965	1616.810104	808.908690	<b>1615.826088</b>	808.416682	11
13	1400.753241	700.880259	1383.726692	692.366984	1382.742676	691.874976	P	<b>1504.794060</b>	752.900668	<b>1487.767511</b>	744.387394	<b>1486.783495</b>	743.895386	10
14	<b>1537.812153</b>	769.409715	1520.785604	760.896440	1519.801588	760.404432	H	<b>1407.741296</b>	<b>704.374286</b>	1390.714747	695.861012	1389.730731	695.369004	9
15	1636.880567	818.943922	1619.854018	810.430647	1618.870002	809.938639	V	<b>1270.682384</b>	635.844830	1253.655835	627.331556	1252.671819	626.839548	8
16	2076.105893	1038.556584	2059.079344	1030.043310	2058.095328	1029.551302	Q	<b>1171.613970</b>	586.310623	1154.587421	577.797349	1153.603405	577.305341	7
17	2205.148486	1103.077881	2188.121937	1094.564606	2187.137921	1094.072598	E	<b>732.388644</b>	366.697960	715.362095	358.184686	714.378079	357.692678	6
18	2318.232550	1159.619913	2301.206001	1151.106638	2300.221985	1150.614631	I	<b>603.346051</b>	302.176664	586.319502	293.663389	585.335486	293.171381	5
19	2447.275143	1224.141210	2430.248594	1215.627935	2429.264578	1215.135927	E	<b>490.261987</b>	245.634631	473.235438	237.121357	472.251422	236.629349	4
20	2546.343557	1273.675417	2529.317008	1265.162142	2528.332992	1264.670134	V	<b>361.219394</b>	181.113335	344.192845	172.600060	343.208829	172.108052	3
21	2633.375585	1317.191431	2616.349036	1308.678156	2615.365020	1308.186148	S	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	2
22							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VILGAHQEVNLEPHVQEIEVSR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
72.7	2806.479965	0.011167	<a href="#">VILGAHQEVNLEPHVQEIEVSR</a>
0.1	2806.476791	0.014341	<a href="#">LYLYAAHDVTFIPLMLTLGIFDHK</a>

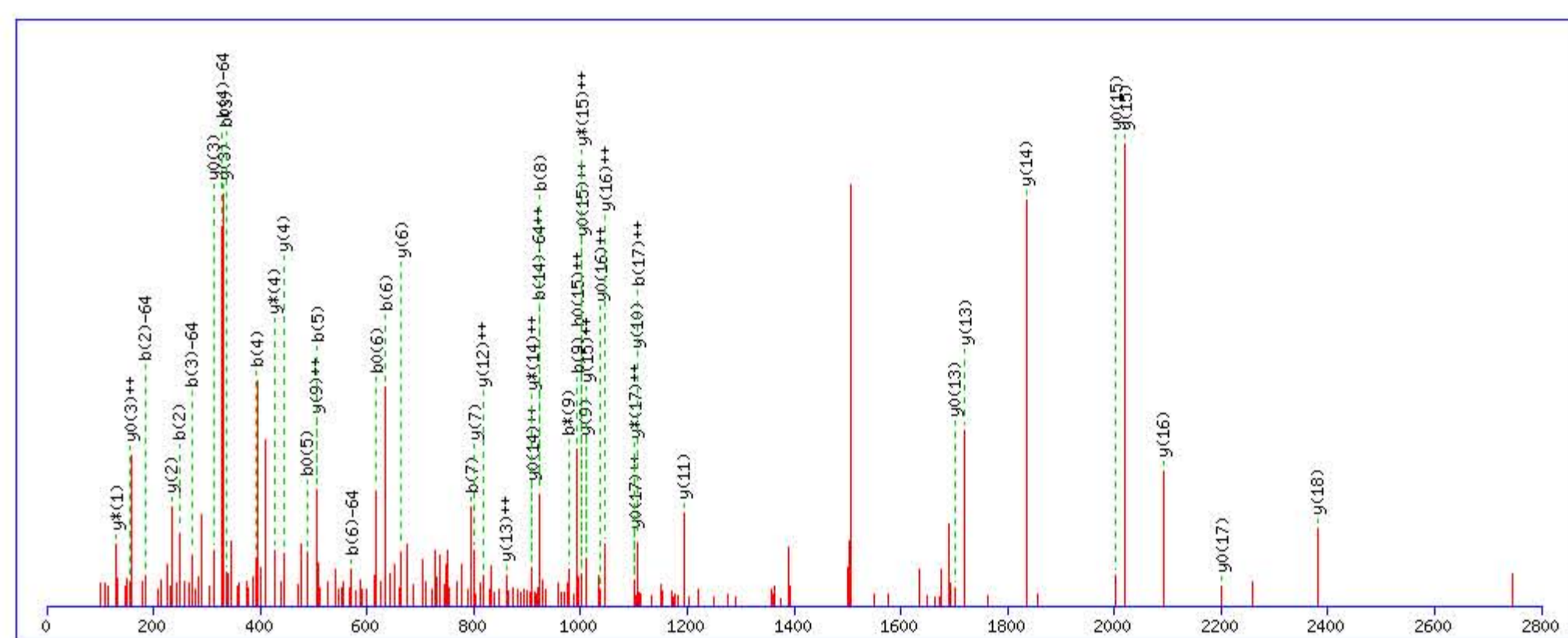
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **TMSGLECAWDSQSPHAHGYIPSK**  
 Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

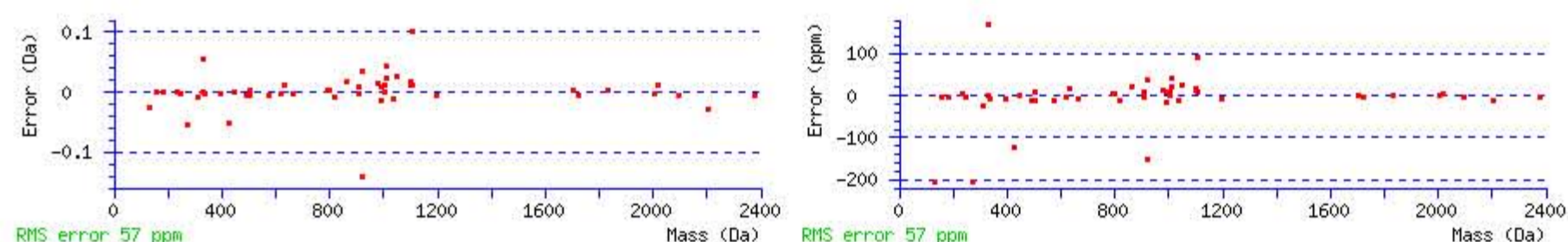
Match to Query 54098: 3013.365016 from(754.348530,4+) rtinseconds(1872) index(59739)  
 Title: Locus:1.1.1.1563.9 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3013.352081  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 M2 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285  
 Q13 : Biotin:Thermo-21345 (Q)  
 Ions Score: 46 Expect: 0.0003  
 Matches : 50/386 fragment ions using 129 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							24
2	<b>249.090355</b>	125.048815			231.079790	116.043533	M	2913.311683	1457.159480	2896.285134	1448.646205	2895.301118	1448.154197	23
3	<b>336.122383</b>	168.564829			318.111818	159.559547	S	2766.276283	1383.641780	2749.249734	1375.128505	2748.265718	1374.636497	22
4	<b>393.143847</b>	197.075561			375.133282	188.070279	G	2679.244255	1340.125765	2662.217706	1331.612491	2661.233690	1331.120483	21
5	<b>506.227911</b>	253.617593			<b>488.217346</b>	244.612311	L	2622.222791	1311.615034	2605.196242	1303.101759	2604.212226	1302.609751	20
6	<b>635.270504</b>	318.138890			<b>617.259939</b>	309.133608	E	2509.138727	1255.073001	2492.112178	1246.559727	2491.128162	1246.067719	19
7	<b>795.301153</b>	398.154215			777.290588	389.148932	C	<b>2380.096134</b>	1190.551705	2363.069585	1182.038430	2362.085569	1181.546422	18
8	<b>923.359731</b>	462.183504	906.333182	453.670229	905.349166	453.178221	Q	2220.065485	1110.536381	2203.038936	<b>1102.023106</b>	<b>2202.054920</b>	<b>1101.531098</b>	17
9	<b>994.396845</b>	497.702061	<b>977.370296</b>	489.188786	976.386280	488.696778	A	<b>2092.006907</b>	<b>1046.507091</b>	2074.980358	1037.993817	2073.996342	<b>1037.501809</b>	16
10	1180.476158	590.741717	1163.449609	582.228443	1162.465593	581.736435	W	<b>2020.969793</b>	<b>1010.988535</b>	2003.943244	<b>1002.475260</b>	<b>2002.959228</b>	<b>1001.983252</b>	15
11	1295.503101	648.255189	1278.476552	639.741914	1277.492536	639.249906	D	<b>1834.890480</b>	917.948878	1817.863931	<b>909.435604</b>	1816.879915	<b>908.943596</b>	14
12	1382.535129	691.771203	1365.508580	683.257928	1364.524564	682.765920	S	<b>1719.863537</b>	<b>860.435407</b>	1702.836988	851.922132	<b>1701.852972</b>	851.430124	13
13	1821.760455	911.383866	1804.733906	902.870591	1803.749890	902.378583	Q	1632.831509	<b>816.919393</b>	1615.804960	808.406118	1614.820944	807.914110	12
14	1908.792483	954.899880	1891.765934	946.386605	1890.781918	945.894597	S	<b>1193.606183</b>	597.306730	1176.579634	588.793455	1175.595618	588.301447	11
15	2005.845247	1003.426262	1988.818698	994.912987	1987.834682	<b>994.420979</b>	P	<b>1106.574155</b>	553.790716	1089.547606	545.277441	1088.563590	544.785433	10
16	2142.904159	1071.955718	2125.877610	1063.442443	2124.893594	1062.950435	H	<b>1009.521391</b>	<b>505.264334</b>	992.494842	496.751059	991.510826	496.259051	9
17	2213.941273	<b>1107.474275</b>	2196.914724	1098.961000	2195.930708	1098.468992	A	872.462479	436.734878	855.435930	428.221603	854.451914	427.729595	8
18	2351.000185	1176.003731	2333.973636	1167.490456	2332.989620	1166.998448	H	<b>801.425365</b>	401.216321	784.398816	392.703046	783.414800	392.211038	7
19	2408.021649	1204.514463	2390.995100	1196.001188	2390.011084	1195.509180	G	<b>664.366453</b>	332.686865	647.339904	324.173590	646.355888	323.681582	6
20	2571.084978	1286.046127	2554.058429	1277.532853	2553.074413	1277.040845	Y	607.344989	304.176133	590.318440	295.662858	589.334424	295.170850	5
21	2684.169042	1342.588159	2667.142493	1334.074885	2666.158477	1333.582877	I	<b>444.281660</b>	222.644468	<b>427.255111</b>	214.131194	426.271095	213.639186	4
22	2781.221806	1391.114541	2764.195257	1382.601267	2763.211241	1382.109259	P	<b>331.197596</b>	166.102436	314.171047	157.589162	<b>313.187031</b>	<b>157.097154</b>	3
23	2868.253834	1434.630555	2851.227285	1426.117281	2850.243269	1425.625273	S	<b>234.144832</b>	117.576054	217.118283	109.062780	216.134267	108.570772	2
24							K	147.112804	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **TMSGLECAWDSQSPHAHGYIPSK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
45.8	3013.352081	0.012935	<a href="#">TMSGLECAWDSQSPHAHGYIPSK</a>
18.0	3013.352081	0.012935	<a href="#">TMSGLECAWDSQSPHAHGYIPSK</a>

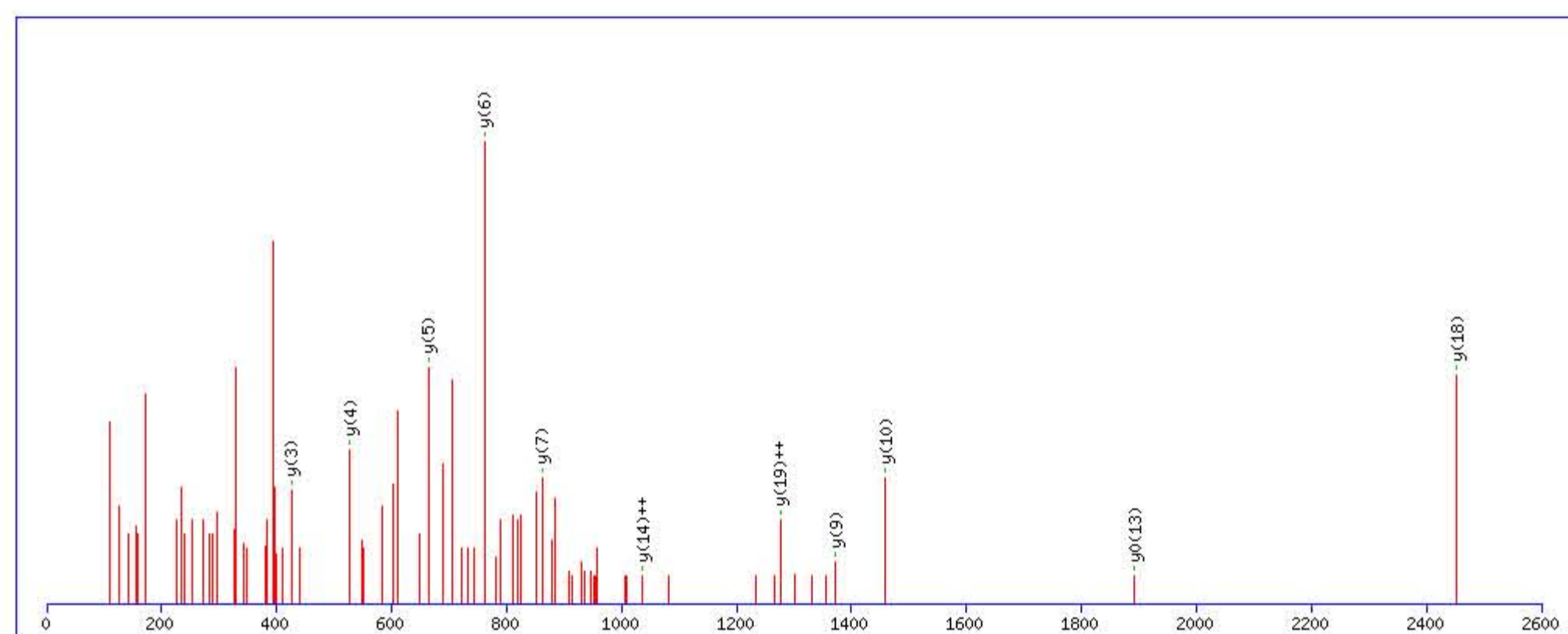
# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **GNVAVTVSGHTCQHWSAQTPHTHNR**  
 Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

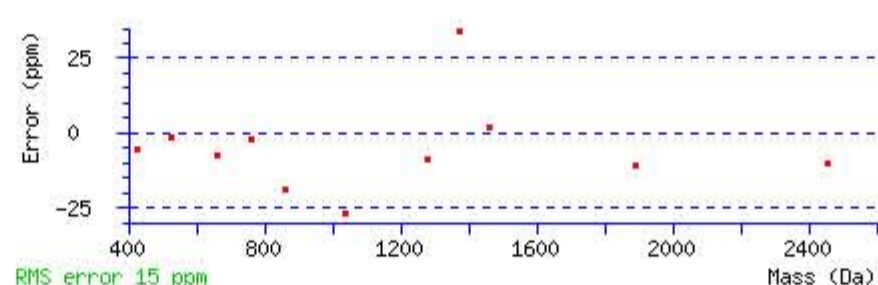
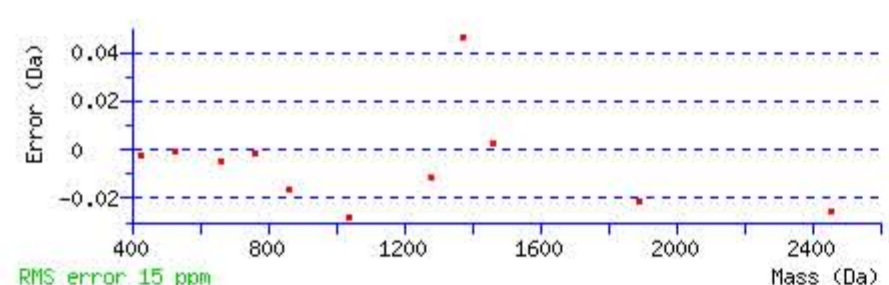
Match to Query 54684: 3092.452770 from(619.497830,5+) rtinseconds(1437) index(57574)  
 Title: Locus:1.1.1.1411.15 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3092.457016  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q18 : Biotin:Thermo-21345 (Q)  
 Ions Score: 50 Expect: 0.0002  
 Matches : 11/270 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							25
2	172.071667	86.539471	155.045118	78.026197			N	3036.442790	1518.725033	3019.416241	1510.211758	3018.432225	1509.719750	24
3	271.140081	136.073679	254.113532	127.560404			V	2922.399863	1461.703569	2905.373314	1453.190295	2904.389298	1452.698287	23
4	342.177195	171.592236	325.150646	163.078961			A	2823.331449	1412.169362	2806.304900	1403.656088	2805.320884	1403.164080	22
5	441.245609	221.126443	424.219060	212.613168			V	2752.294335	1376.650805	2735.267786	1368.137531	2734.283770	1367.645523	21
6	542.293288	271.650282	525.266739	263.137008	524.282723	262.645000	T	2653.225921	1327.116598	2636.199372	1318.603324	2635.215356	1318.111316	20
7	641.361702	321.184489	624.335153	312.671215	623.351137	312.179207	V	2552.178242	1276.592759	2535.151693	1268.079484	2534.167677	1267.587476	19
8	728.393730	364.700503	711.367181	356.187229	710.383165	355.695221	S	2453.109828	1227.058552	2436.083279	1218.545277	2435.099263	1218.053269	18
9	785.415194	393.211235	768.388645	384.697961	767.404629	384.205953	G	2366.077800	1183.542538	2349.051251	1175.029263	2348.067235	1174.537255	17
10	922.474106	461.740691	905.447557	453.227417	904.463541	452.735409	H	2309.056336	1155.031806	2292.029787	1146.518531	2291.045771	1146.026523	16
11	1023.521785	512.264530	1006.495236	503.751256	1005.511220	503.259248	T	2171.997424	1086.502350	2154.970875	1077.989075	2153.986859	1077.497067	15
12	1183.552434	592.279855	1166.525885	583.766581	1165.541869	583.274572	C	2070.949745	1035.978510	2053.923196	1027.465236	2052.939180	1026.973228	14
13	1311.611012	656.309144	1294.584463	647.795870	1293.600447	647.303862	Q	1910.919096	955.963186	1893.892547	947.449911	1892.908531	946.957903	13
14	1448.669924	724.838600	1431.643375	716.325326	1430.659359	715.833318	H	1782.860518	891.933897	1765.833969	883.420622	1764.849953	882.928614	12
15	1634.749237	817.878257	1617.722688	809.364982	1616.738672	808.872974	W	1645.801606	823.404441	1628.775057	814.891166	1627.791041	814.399158	11
16	1721.781265	861.394271	1704.754716	852.880996	1703.770700	852.388988	S	1459.722293	730.364784	1442.695744	721.851510	1441.711728	721.359502	10
17	1792.818379	896.912828	1775.791830	888.399553	1774.807814	887.907545	A	1372.690265	686.848770	1355.663716	678.335496	1354.679700	677.843488	9
18	2232.043705	1116.525490	2215.017156	1108.012216	2214.033140	1107.520208	Q	1301.653151	651.330213	1284.626602	642.816939	1283.642586	642.324931	8
19	2333.091384	1167.049330	2316.064835	1158.536055	2315.080819	1158.044047	T	862.427825	431.717550	845.401276	423.204276	844.417260	422.712268	7
20	2430.144148	1215.575712	2413.117599	1207.062437	2412.133583	1206.570429	P	761.380146	381.193711	744.353597	372.680436	743.369581	372.188428	6
21	2567.203060	1284.105168	2550.176511	1275.591893	2549.192495	1275.099885	H	664.327382	332.667329	647.300833	324.154054	646.316817	323.662046	5
22	2668.250739	1334.629007	2651.224190	1326.115733	2650.240174	1325.623725	T	527.268470	264.137873	510.241921	255.624598	509.257905	255.132590	4
23	2805.309651	1403.158463	2788.283102	1394.645189	2787.299086	1394.153181	H	426.220791	213.614033	409.194242	205.100759			3
24	2919.352578	1460.179927	2902.326029	1451.666652	2901.342013	1451.174644	N	289.161879	145.084577	272.135330	136.571303			2
25							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GNVAVTVSGHTCQHWSAQTPHTHNR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
49.5	3092.457016	-0.004246	<a href="#">GNVAVTVSGHTCQHWSAQTPHTHNR</a>
26.3	3092.457016	-0.004246	<a href="#">GNVAVTVSGHTCQHWSAQTPHTHNR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VILGAHQEVNLEPHVQEIIEVSR**

Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

Match to Query 54796: 3117.662536 from(780.422910,4+) rtinseconds(2245) index(61967)

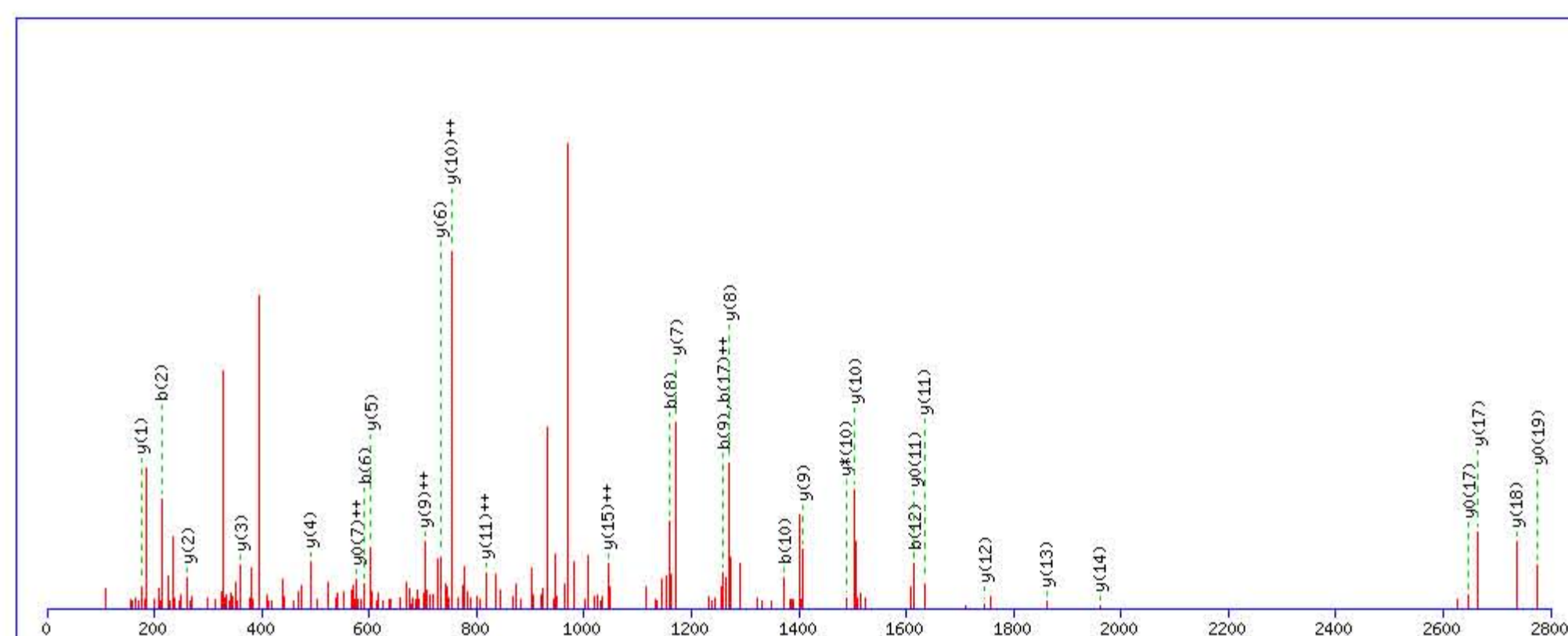
Title: Locus:1.1.1.1693.21 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3117.646713

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

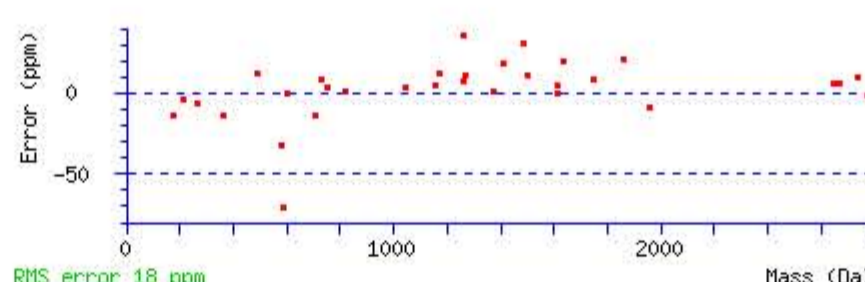
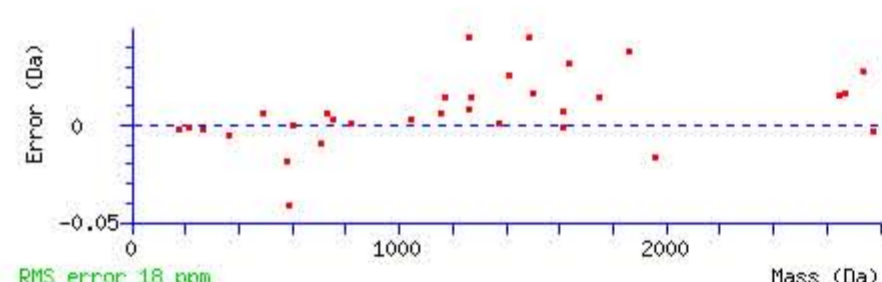
Q7 : Biotin:Thermo-21345 (Q)

Q16 : Biotin:Thermo-21345 (Q)

Ions Score: 73 Expect: 7.4e-007

Matches : 32/224 fragment ions using 72 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							22
2	<b>213.159754</b>	107.083515					I	3019.585595	1510.296435	3002.559046	1501.783161	3001.575030	1501.291153	21
3	326.243818	163.625547					L	2906.501531	1453.754403	2889.474982	1445.241129	2888.490966	1444.749121	20
4	383.265282	192.136279					G	2793.417467	1397.212371	2776.390918	1388.699097	<b>2775.406902</b>	1388.207089	19
5	454.302396	227.654836					A	<b>2736.396003</b>	1368.701639	2719.369454	1360.188365	2718.385438	1359.696357	18
6	<b>591.361308</b>	296.184292					H	<b>2665.358889</b>	1333.183082	2648.332340	1324.669808	<b>2647.348324</b>	1324.177800	17
7	1030.586634	515.796955	1013.560085	507.283681			Q	2528.299977	1264.653627	2511.273428	1256.140352	2510.289412	1255.648344	16
8	<b>1159.629227</b>	580.318252	1142.602678	571.804977	1141.618662	571.312969	E	2089.074651	<b>1045.040963</b>	2072.048102	1036.527689	2071.064086	1036.035681	15
9	<b>1258.697641</b>	629.852459	1241.671092	621.339184	1240.687076	620.847176	V	<b>1960.032058</b>	980.519667	1943.005509	972.006393	1942.021493	971.514385	14
10	<b>1372.740568</b>	686.873922	1355.714019	678.360648	1354.730003	677.868640	N	<b>1860.963644</b>	930.985460	1843.937095	922.472186	1842.953079	921.980178	13
11	1485.824632	743.415954	1468.798083	734.902680	1467.814067	734.410672	L	<b>1746.920717</b>	873.963997	1729.894168	865.450722	1728.910152	864.958714	12
12	<b>1614.867225</b>	807.937251	1597.840676	799.423976	1596.856660	798.931968	E	<b>1633.836653</b>	<b>817.421965</b>	1616.810104	808.908690	<b>1615.826088</b>	808.416682	11
13	1711.919989	856.463633	1694.893440	847.950358	1693.909424	847.458350	P	<b>1504.794060</b>	<b>752.900668</b>	<b>1487.767511</b>	744.387394	1486.783495	743.895386	10
14	1848.978901	924.993089	1831.952352	916.479814	1830.968336	915.987806	H	<b>1407.741296</b>	<b>704.374286</b>	1390.714747	695.861012	1389.730731	695.369004	9
15	1948.047315	974.527296	1931.020766	966.014021	1930.036750	965.522013	V	<b>1270.682384</b>	635.844830	1253.655835	627.331556	1252.671819	626.839548	8
16	2387.272641	1194.139958	2370.246092	1185.626684	2369.262076	1185.134676	Q	<b>1171.613970</b>	586.310623	1154.587421	577.797349	1153.603405	<b>577.305341</b>	7
17	2516.315234	<b>1258.661255</b>	2499.288685	1250.147980	2498.304669	1249.655973	E	<b>732.388644</b>	366.697960	715.362095	358.184686	714.378079	357.692678	6
18	2629.399298	1315.203287	2612.372749	1306.690013	2611.388733	1306.198005	I	<b>603.346051</b>	302.176664	586.319502	293.663389	585.335486	293.171381	5
19	2758.441891	1379.724584	2741.415342	1371.211309	2740.431326	1370.719301	E	<b>490.261987</b>	245.634631	473.235438	237.121357	472.251422	236.629349	4
20	2857.510305	1429.258791	2840.483756	1420.745516	2839.499740	1420.253508	V	<b>361.219394</b>	181.113335	344.192845	172.600060	343.208829	172.108052	3
21	2944.542333	1472.774805	2927.515784	1464.261530	2926.531768	1463.769522	S	<b>262.150980</b>	131.579128	245.124431	123.065854	244.140415	122.573846	2
22							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VILGAHQEVNLEPHVQEIIEVSR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
73.4	3117.646713	0.015823	<a href="#">VILGAHQEVNLEPHVQEIIEVSR</a>

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

# Mascot Search Results

## Peptide View

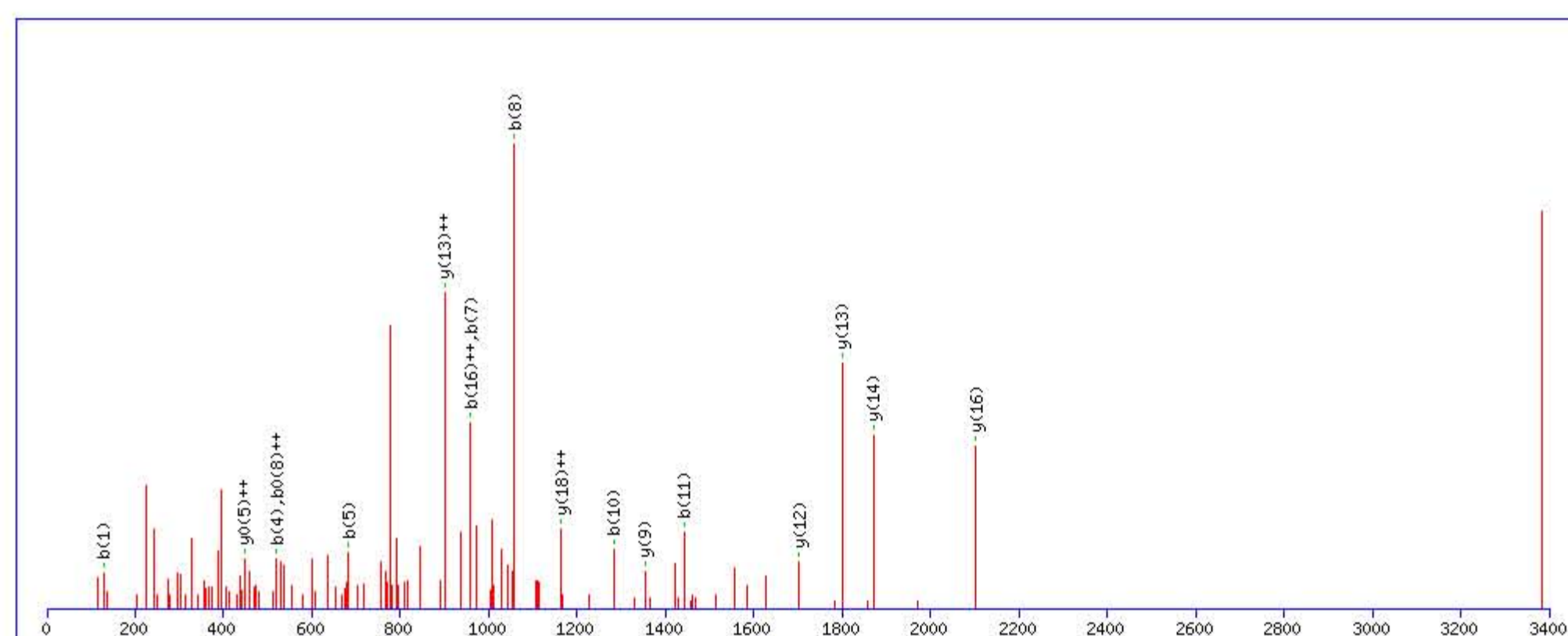
MS/MS Fragmentation of **KLYDYCDVPQCAAPSFDCGKQPVEPK**  
 Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

Match to Query 58613: 3382.563456 from(846.648140,4+) rtinseconds(1944) index(60206)  
 Title: Locus:1.1.1.1588.26 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

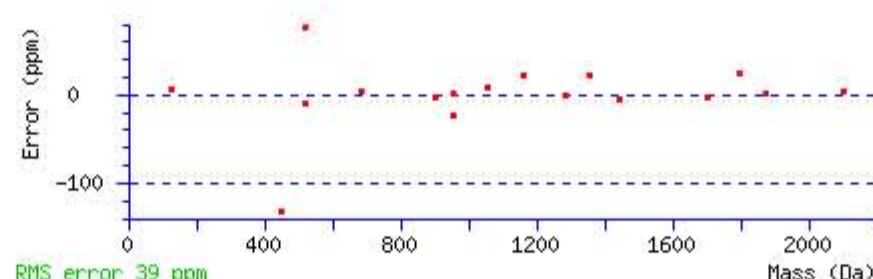
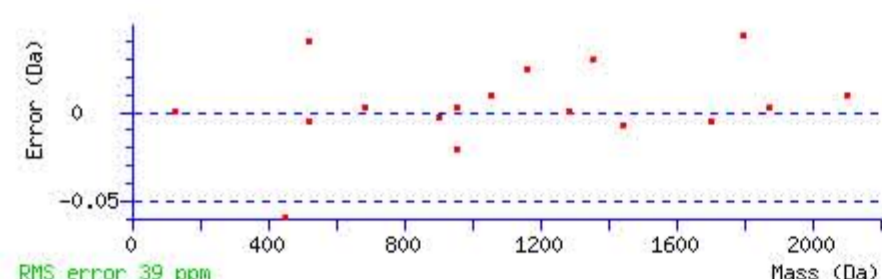
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3382.549469  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q22 : Biotin:Thermo-21345 (Q)  
 Ions Score: 47 Expect: 0.00028  
 Matches : 17/290 fragment ions using 21 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>129.102239</b>	65.054757	112.075690	56.541483			<b>K</b>							<b>26</b>
2	242.186303	121.596790	225.159754	113.083515			<b>L</b>	3255.461780	1628.234528	3238.435231	1619.721253	3237.451215	1619.229245	<b>25</b>
3	405.249632	203.128454	388.223083	194.615180			<b>Y</b>	3142.377716	1571.692496	3125.351167	1563.179221	3124.367151	1562.687213	<b>24</b>
4	<b>520.276575</b>	260.641926	503.250026	252.128651	502.266010	251.636643	<b>D</b>	2979.314387	1490.160831	2962.287838	1481.647557	2961.303822	1481.155549	<b>23</b>
5	<b>683.339904</b>	342.173590	666.313355	333.660316	665.329339	333.168308	<b>Y</b>	2864.287444	1432.647360	2847.260895	1424.134085	2846.276879	1423.642077	<b>22</b>
6	843.370553	422.188915	826.344004	413.675640	825.359988	413.183632	<b>C</b>	2701.224115	1351.115695	2684.197566	1342.602421	2683.213550	1342.110413	<b>21</b>
7	<b>958.397496</b>	479.702386	941.370947	471.189112	940.386931	470.697104	<b>D</b>	2541.193466	1271.100371	2524.166917	1262.587096	2523.182901	1262.095089	<b>20</b>
8	<b>1057.465910</b>	529.236593	1040.439361	520.723319	1039.455345	<b>520.231311</b>	<b>V</b>	2426.166523	1213.586899	2409.139974	1205.073625	2408.155958	1204.581617	<b>19</b>
9	1154.518674	577.762975	1137.492125	569.249701	1136.508109	568.757693	<b>P</b>	2327.098109	<b>1164.052692</b>	2310.071560	1155.539418	2309.087544	1155.047410	<b>18</b>
10	<b>1282.577252</b>	641.792264	1265.550703	633.278990	1264.566687	632.786982	<b>Q</b>	2230.045345	1115.526310	2213.018796	1107.013036	2212.034780	1106.521028	<b>17</b>
11	<b>1442.607901</b>	721.807589	1425.581352	713.294314	1424.597336	712.802306	<b>C</b>	<b>2101.986767</b>	1051.497021	2084.960218	1042.983747	2083.976202	1042.491739	<b>16</b>
12	1513.645015	757.326146	1496.618466	748.812871	1495.634450	748.320863	<b>A</b>	1941.956118	971.481697	1924.929569	962.968423	1923.945553	962.476415	<b>15</b>
13	1584.682129	792.844703	1567.655580	784.331428	1566.671564	783.839420	<b>A</b>	<b>1870.919004</b>	935.963140	1853.892455	927.449866	1852.908439	926.957858	<b>14</b>
14	1681.734893	841.371085	1664.708344	832.857810	1663.724328	832.365802	<b>P</b>	<b>1799.881890</b>	<b>900.444583</b>	1782.855341	891.931309	1781.871325	891.439301	<b>13</b>
15	1768.766921	884.887099	1751.740372	876.373824	1750.756356	875.881816	<b>S</b>	<b>1702.829126</b>	851.918201	1685.802577	843.404927	1684.818561	842.912919	<b>12</b>
16	1915.835335	<b>958.421306</b>	1898.808786	949.908031	1897.824770	949.416023	<b>F</b>	1615.797098	808.402187	1598.770549	799.888913	1597.786533	799.396905	<b>11</b>
17	2030.862278	1015.934777	2013.835729	1007.421503	2012.851713	1006.929495	<b>D</b>	1468.728684	734.867980	1451.702135	726.354706	1450.718119	725.862698	<b>10</b>
18	2190.892927	1095.950102	2173.866378	1087.436827	2172.882362	1086.944819	<b>C</b>	<b>1353.701741</b>	677.354509	1336.675192	668.841234	1335.691176	668.349226	<b>9</b>
19	2247.914391	1124.460834	2230.887842	1115.947559	2229.903826	1115.455551	<b>G</b>	1193.671092	597.339184	1176.644543	588.825910	1175.660527	588.333902	<b>8</b>
20	2376.009354	1188.508315	2358.982805	1179.995041	2357.998789	1179.503033	<b>K</b>	1136.649628	568.828452	1119.623079	560.315178	1118.639063	559.823170	<b>7</b>
21	2473.062118	1237.034697	2456.035569	1228.521423	2455.051553	1228.029415	<b>P</b>	1008.554665	504.780971	991.528116	496.267696	990.544100	495.775688	<b>6</b>
22	2912.287444	1456.647360	2895.260895	1448.134086	2894.276879	1447.642078	<b>Q</b>	911.501901	456.254589	894.475352	447.741314	893.491336	<b>447.249306</b>	<b>5</b>
23	3011.355858	1506.181567	2994.329309	1497.668293	2993.345293	1497.176285	<b>V</b>	472.276575	236.641925	455.250026	228.128651	454.266010	227.636643	<b>4</b>
24	3140.398451	1570.702864	3123.371902	1562.189589	3122.387886	1561.697581	<b>E</b>	373.208161	187.107719	356.181612	178.594444	355.197596	178.102436	<b>3</b>
25	3237.451215	1619.229246	3220.424666	1610.715971	3219.440650	1610.223963	<b>P</b>	244.165568	122.586422	227.139019	114.073148			<b>2</b>
26							<b>K</b>	147.112804	74.060040	130.086255	65.546765			<b>1</b>



NCBI BLAST search of **KLYDYCDVPQCAAPSFDCGKQPVEPK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
46.5	3382.549469	0.013987	<a href="#">KLYDYCDVPQCAAPSFDCGKQPVEPK</a>
4.4	3382.549469	0.013987	<a href="#">KLYDYCDVPQCAAPSFDCGKQPVEPK</a>

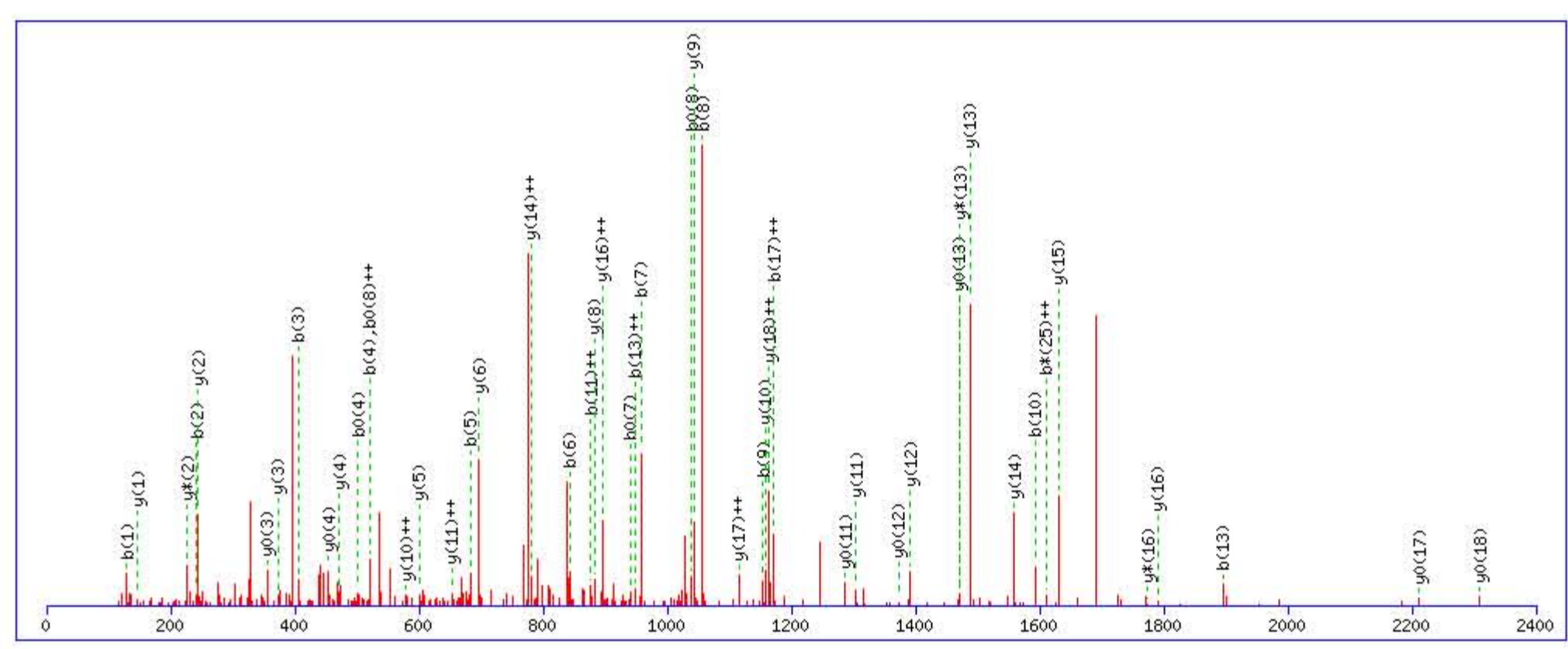
**MASCOT** Mascot Search Results

**Peptide View**

MS/MS Fragmentation of **KLYDYCDVPQCAAPSFDCGKQPVEPK**  
 Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

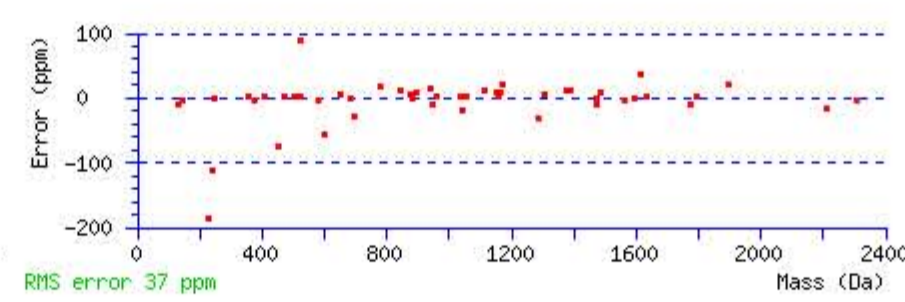
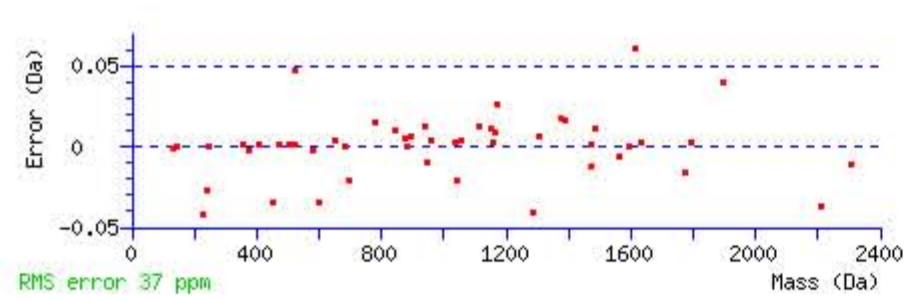
Match to Query 58614: 3382.568056 from(846.649290,4+) rtinseconds(1996) index(60612)  
 Title: Locus:1.1.1.1606.25 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3382.549469  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q10 : Biotin:Thermo-21345 (Q)  
 Ions Score: 60 Expect: 1.3e-005  
 Matches : 50/290 fragment ions using 151 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.102239	65.054757	112.075690	56.541483			K							26
2	242.186303	121.596790	225.159754	113.083515			L	3255.461780	1628.234528	3238.435231	1619.721253	3237.451215	1619.229245	25
3	405.249632	203.128454	388.223083	194.615180			Y	3142.377716	1571.692496	3125.351167	1563.179221	3124.367151	1562.687213	24
4	520.276575	260.641926	503.250026	252.128651	502.266010	251.636643	D	2979.314387	1490.160831	2962.287838	1481.647557	2961.303822	1481.155549	23
5	683.339904	342.173590	666.313355	333.660316	665.329339	333.168308	Y	2864.287444	1432.647360	2847.260895	1424.134085	2846.276879	1423.642077	22
6	843.370553	422.188915	826.344004	413.675640	825.359988	413.183632	C	2701.224115	1351.115695	2684.197566	1342.602421	2683.213550	1342.110413	21
7	958.397496	479.702386	941.370947	471.189112	940.386931	470.697104	D	2541.193466	1271.100371	2524.166917	1262.587096	2523.182901	1262.095088	20
8	1057.465910	529.236593	1040.439361	520.723319	1039.455345	520.231311	V	2426.166523	1213.586899	2409.139974	1205.073625	2408.155958	1204.581617	19
9	1154.518674	577.762975	1137.492125	569.249701	1136.508109	568.757693	P	2327.098109	1164.052692	2310.071560	1155.539418	2309.087544	1155.047410	18
10	1593.744000	797.375638	1576.717451	788.862364	1575.733435	788.370356	Q	2230.045345	1115.526310	2213.018796	1107.013036	2212.034780	1106.521028	17
11	1753.774649	877.390963	1736.748100	868.877688	1735.764084	868.385680	C	1790.820019	895.913647	1773.793470	887.400373	1772.809454	886.908365	16
12	1824.811763	912.909520	1807.785214	904.396245	1806.801198	903.904237	A	1630.789370	815.898323	1613.762821	807.385048	1612.778805	806.893040	15
13	1895.848877	948.428077	1878.822328	939.914802	1877.838312	939.422794	A	1559.752256	780.379766	1542.725707	771.866491	1541.741691	771.374483	14
14	1992.901641	996.954459	1975.875092	988.441184	1974.891076	987.949176	P	1488.715142	744.861209	1471.688593	736.347934	1470.704577	735.855926	13
15	2079.933669	1040.470472	2062.907120	1031.957198	2061.923104	1031.465190	S	1391.662378	696.334827	1374.635829	687.821552	1373.651813	687.329544	12
16	2227.002083	1114.004679	2209.975534	1105.491405	2208.991518	1104.999397	F	1304.630350	652.818813	1287.603801	644.305538	1286.619785	643.813530	11
17	2342.029026	1171.518151	2325.002477	1163.004876	2324.018461	1162.512868	D	1157.561936	579.284606	1140.535387	570.771331	1139.551371	570.279323	10
18	2502.059675	1251.533475	2485.033126	1243.020201	2484.049110	1242.528193	C	1042.534993	521.771135	1025.508444	513.257860	1024.524428	512.765852	9
19	2559.081139	1280.044207	2542.054590	1271.530933	2541.070574	1271.038925	G	882.504344	441.755810	865.477795	433.242536	864.493779	432.750528	8
20	2687.176102	1344.091689	2670.149553	1335.578414	2669.165537	1335.086406	K	825.482880	413.245078	808.456331	404.731804	807.472315	404.239796	7
21	2784.228866	1392.618071	2767.202317	1384.104796	2766.218301	1383.612788	P	697.387917	349.197597	680.361368	340.684322	679.377352	340.192314	6
22	2912.287444	1456.647360	2895.260895	1448.134085	2894.276879	1447.642077	Q	600.335153	300.671215	583.308604	292.157940	582.324588	291.665932	5
23	3011.355858	1506.181567	2994.329309	1497.668292	2993.345293	1497.176284	V	472.276575	236.641925	455.250026	228.128651	454.266010	227.636643	4
24	3140.398451	1570.702863	3123.371902	1562.189589	3122.387886	1561.697581	E	373.208161	187.107719	356.181612	178.594444	355.197596	178.102436	3
25	3237.451215	1619.229245	3220.424666	1610.715971	3219.440650	1610.223963	P	244.165568	122.586422	227.139019	114.073148			2
26							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **KLYDYCDVPQCAAPSFDCGKQPVEPK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
60.0	3382.549469	0.018587	<a href="#">KLYDYCDVPQCAAPSFDCGKQPVEPK</a>
6.2	3382.549469	0.018587	<a href="#">KLYDYCDVPQCAAPSFDCGKQPVEPK</a>

# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **GNVAVTVSGHTCQHWSAQTPHTHNR**

Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

Match to Query 58836: 3403.620444 from(568.277350,6+) rtinseconds(1678) index(58845)

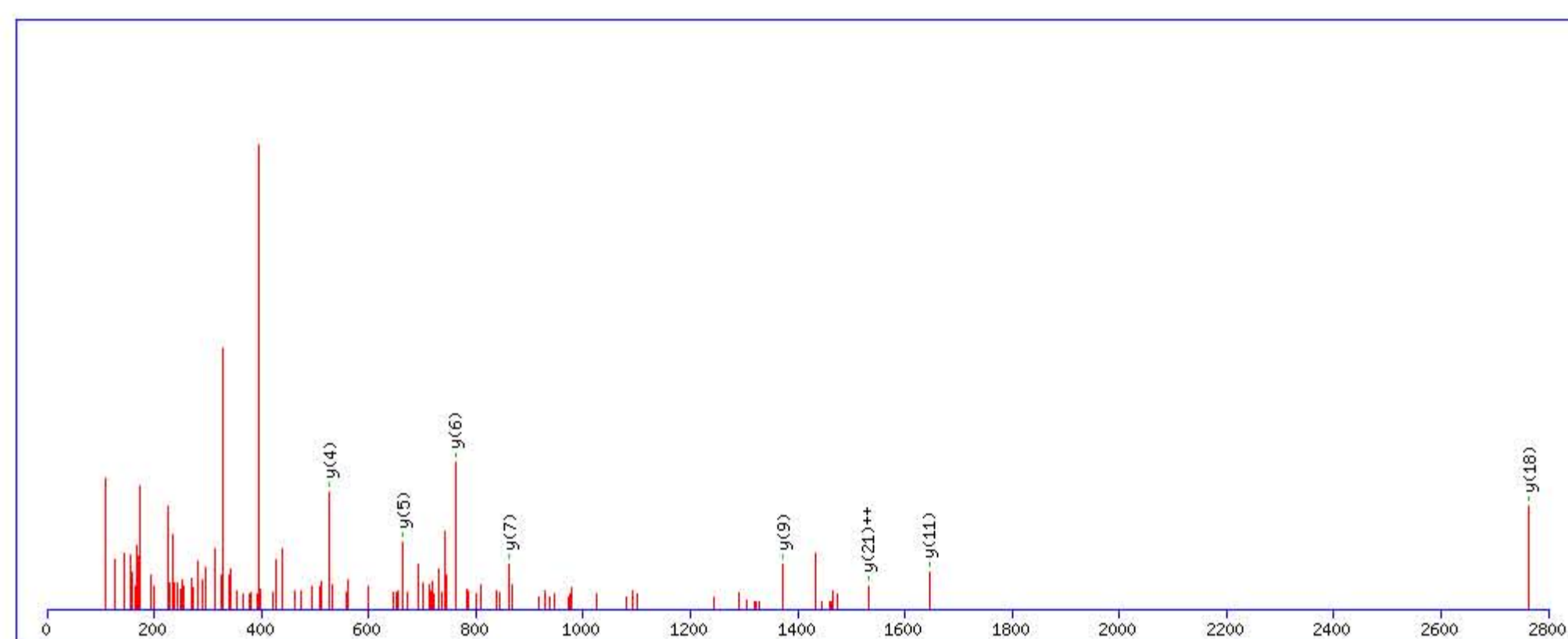
Title: Locus:1.1.1.1496.5 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3403.623764

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

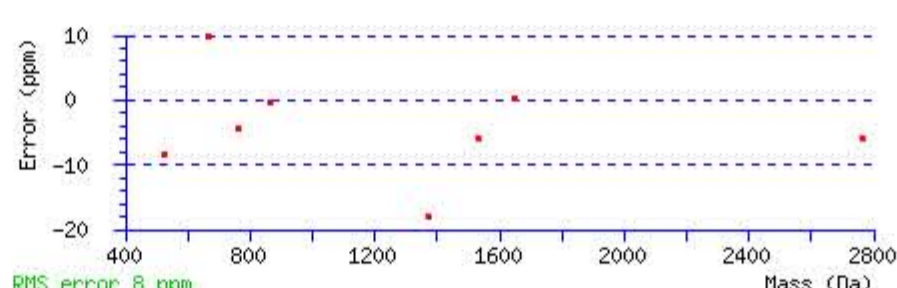
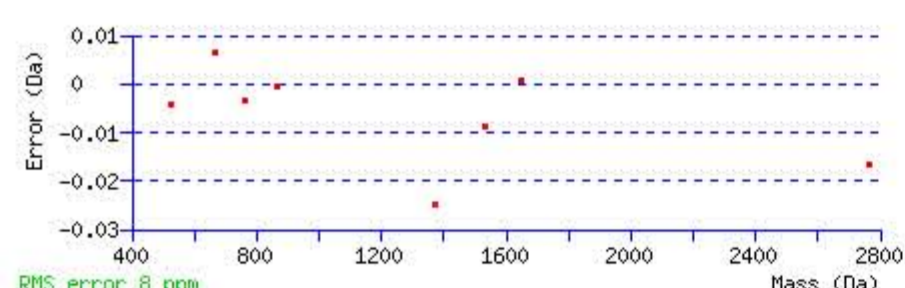
Q13 : Biotin:Thermo-21345 (Q)

Q18 : Biotin:Thermo-21345 (Q)

Ions Score: 25 Expect: 0.073

Matches : 8/270 fragment ions using 16 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							25
2	172.071667	86.539471	155.045118	78.026197			N	3347.609538	1674.308407	3330.582989	1665.795132	3329.598973	1665.303124	24
3	271.140081	136.073679	254.113532	127.560404			V	3233.566611	1617.286943	3216.540062	1608.773669	3215.556046	1608.281661	23
4	342.177195	171.592236	325.150646	163.078961			A	3134.498197	1567.752736	3117.471648	1559.239462	3116.487632	1558.747454	22
5	441.245609	221.126443	424.219060	212.613168			V	3063.461083	1532.234179	3046.434534	1523.720905	3045.450518	1523.228897	21
6	542.293288	271.650282	525.266739	263.137008	524.282723	262.645000	T	2964.392669	1482.699972	2947.366120	1474.186698	2946.382104	1473.694690	20
7	641.361702	321.184489	624.335153	312.671215	623.351137	312.179207	V	2863.344990	1432.176133	2846.318441	1423.662858	2845.334425	1423.170850	19
8	728.393730	364.700503	711.367181	356.187229	710.383165	355.695221	S	2764.276576	1382.641926	2747.250027	1374.128651	2746.266011	1373.636643	18
9	785.415194	393.211235	768.388645	384.697961	767.404629	384.205953	G	2677.244548	1339.125912	2660.217999	1330.612637	2659.233983	1330.120629	17
10	922.474106	461.740691	905.447557	453.227417	904.463541	452.735409	H	2620.223084	1310.615180	2603.196535	1302.101905	2602.212519	1301.609897	16
11	1023.521785	512.264530	1006.495236	503.751256	1005.511220	503.259248	T	2483.164172	1242.085724	2466.137623	1233.572449	2465.153607	1233.080441	15
12	1183.552434	592.279855	1166.525885	583.766581	1165.541869	583.274572	C	2382.116493	1191.561884	2365.089944	1183.048610	2364.105928	1182.556602	14
13	1622.777760	811.892518	1605.751211	803.379244	1604.767195	802.887236	Q	2222.085844	1111.546560	2205.059295	1103.033285	2204.075279	1102.541277	13
14	1759.836672	880.421974	1742.810123	871.908700	1741.826107	871.416692	H	1782.860518	891.933897	1765.833969	883.420622	1764.849953	882.928614	12
15	1945.915985	973.461631	1928.889436	964.948356	1927.905420	964.456348	W	1645.801606	823.404441	1628.775057	814.891166	1627.791041	814.399158	11
16	2032.948013	1016.977645	2015.921464	1008.464370	2014.937448	1007.972362	S	1459.722293	730.364784	1442.695744	721.851510	1441.711728	721.359502	10
17	2103.985127	1052.496201	2086.958578	1043.982927	2085.974562	1043.490919	A	1372.690265	686.848770	1355.663716	678.335496	1354.679700	677.843488	9
18	2543.210453	1272.108865	2526.183904	1263.595590	2525.199888	1263.103582	Q	1301.653151	651.330213	1284.626602	642.816939	1283.642586	642.324931	8
19	2644.258132	1322.632704	2627.231583	1314.119429	2626.247567	1313.627421	T	862.427825	431.717550	845.401276	423.204276	844.417260	422.712268	7
20	2741.310896	1371.159086	2724.284347	1362.645811	2723.300331	1362.153803	P	761.380146	381.193711	744.353597	372.680436	743.369581	372.188428	6
21	2878.369808	1439.688542	2861.343259	1431.175267	2860.359243	1430.683259	H	664.327382	332.667329	647.300833	324.154054	646.316817	323.662046	5
22	2979.417487	1490.212381	2962.390938	1481.699107	2961.406922	1481.207099	T	527.268470	264.137873	510.241921	255.624598	509.257905	255.132590	4
23	3116.476399	1558.741837	3099.449850	1550.228563	3098.465834	1549.736555	H	426.220791	213.614033	409.194242	205.100759			3
24	3230.519326	1615.763301	3213.492777	1607.250026	3212.508761	1606.758018	N	289.161879	145.084577	272.135330	136.571303			2
25							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GNVAVTVSGHTCQHWSAQTPHTHNR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
25.1	3403.623764	-0.003320	<a href="#">GNVAVTVSGHTCQHWSAQTPHTHNR</a>

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

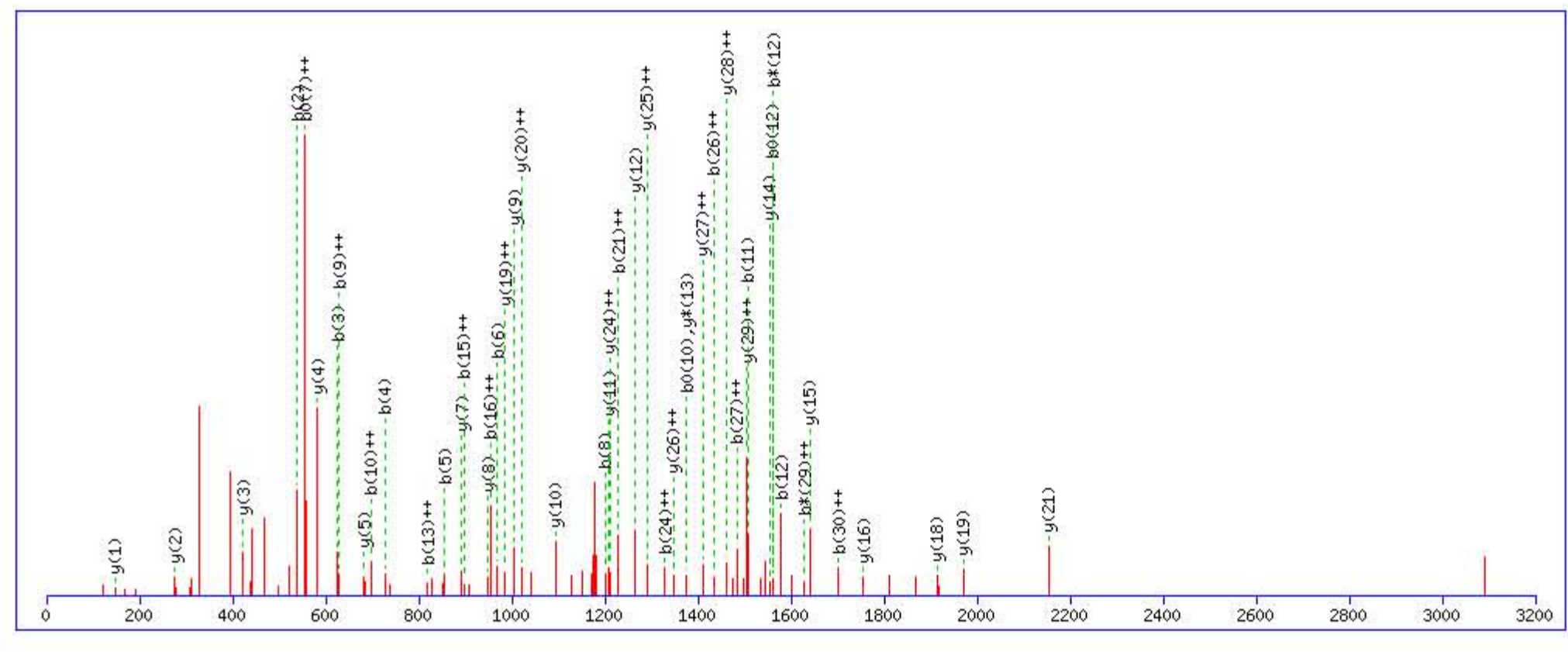
**MASCOT** Mascot Search Results

Peptide View

MS/MS Fragmentation of **VQSTELCAGHLAGGTDSCQGDSGGPLVCFEK**  
 Found in **PLMN\_HUMAN**, Plasminogen OS=Homo sapiens GN=PLG PE=1 SV=2

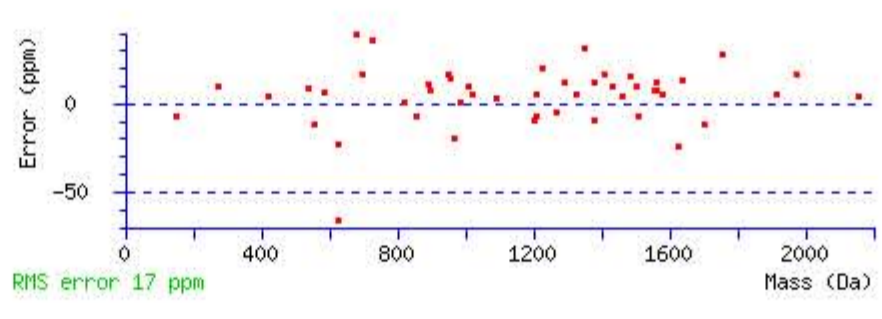
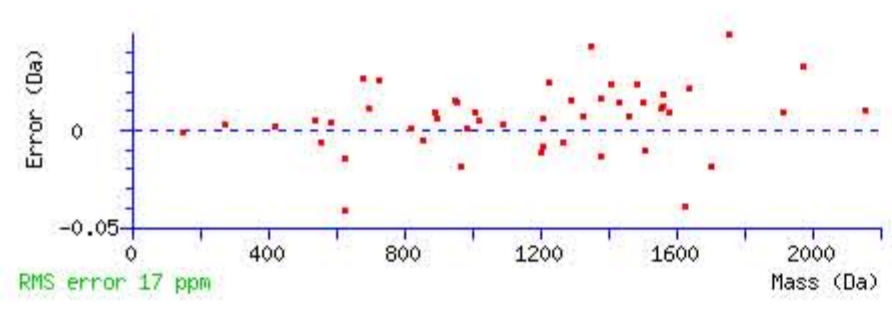
Match to Query 59885: 3547.630632 from(1183.550820,3+) rtinseconds(2180) index(61552)  
 Title: Locus:1.1.1.1670.13 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3547.584061  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q2 : Biotin:Thermo-21345 (Q)  
 Ions Score: 83 Expect: 6.8e-008  
 Matches : 49/352 fragment ions using 103 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							31
2	<b>539.301016</b>	270.154146	522.274467	261.640872			Q	3449.522877	1725.265076	3432.496328	1716.751802	3431.512312	1716.259794	30
3	<b>626.333044</b>	313.670160	609.306495	305.156886	608.322479	304.664878	S	3010.297551	<b>1505.652413</b>	2993.271002	1497.139139	2992.286986	1496.647131	29
4	<b>727.380723</b>	364.194000	710.354174	355.680725	709.370158	355.188717	T	2923.265523	<b>1462.136399</b>	2906.238974	1453.623125	2905.254958	1453.131117	28
5	<b>856.423316</b>	428.715296	839.396767	420.202022	838.412751	419.710014	E	2822.217844	<b>1411.612560</b>	2805.191295	1403.099285	2804.207279	1402.607277	27
6	<b>969.507380</b>	485.257328	952.480831	476.744054	951.496815	476.252046	L	2693.175251	<b>1347.091263</b>	2676.148702	1338.577989	2675.164686	1338.085981	26
7	1129.538029	565.272653	1112.511480	556.759378	1111.527464	<b>556.267370</b>	C	2580.091187	<b>1290.549231</b>	2563.064638	1282.035957	2562.080622	1281.543949	25
8	<b>1200.575143</b>	600.791210	1183.548594	592.277935	1182.564578	591.785927	A	2420.060538	<b>1210.533907</b>	2403.033989	1202.020632	2402.049973	1201.528624	24
9	1257.596607	<b>629.301942</b>	1240.570058	620.788667	1239.586042	620.296659	G	2349.023424	1175.015350	2331.996875	1166.502075	2331.012859	1166.010067	23
10	1394.655519	<b>697.831397</b>	1377.628970	689.318123	<b>1376.644954</b>	688.826115	H	2292.001960	1146.504618	2274.975411	1137.991343	2273.991395	1137.499335	22
11	<b>1507.739583</b>	754.373429	1490.713034	745.860155	1489.729018	745.368147	L	<b>2154.943048</b>	1077.975162	2137.916499	1069.461887	2136.932483	1068.969879	21
12	<b>1578.776697</b>	789.891986	<b>1561.750148</b>	781.378712	<b>1560.766132</b>	780.886704	A	2041.858984	<b>1021.433130</b>	2024.832435	1012.919855	2023.848419	1012.427847	20
13	1635.798161	<b>818.402718</b>	1618.771612	809.889444	1617.787596	809.397436	G	<b>1970.821870</b>	<b>985.914573</b>	1953.795321	977.401298	1952.811305	976.909290	19
14	1692.819625	846.913450	1675.793076	838.400176	1674.809060	837.908168	G	<b>1913.800406</b>	957.403841	1896.773857	948.890566	1895.789841	948.398558	18
15	1793.867304	<b>897.437290</b>	1776.840755	888.924015	1775.856739	888.432007	T	1856.778942	928.893109	1839.752393	920.379835	1838.768377	919.887826	17
16	1908.894247	<b>954.950761</b>	1891.867698	946.437487	1890.883682	945.945479	D	<b>1755.731263</b>	878.369269	1738.704714	869.855995	1737.720698	869.363987	16
17	1995.926275	998.466775	1978.899726	989.953501	1977.915710	989.461493	S	<b>1640.704320</b>	820.855798	1623.677771	812.342523	1622.693755	811.850515	15
18	2155.956924	1078.482100	2138.930375	1069.968825	2137.946359	1069.476817	C	<b>1553.672292</b>	777.339784	1536.645743	768.826509	1535.661727	768.334501	14
19	2284.015502	1142.511389	2266.988953	1133.998114	2266.004937	1133.506106	Q	1393.641643	697.324459	<b>1376.615094</b>	688.811185	1375.631078	688.319177	13
20	2341.036966	1171.022121	2324.010417	1162.508846	2323.026401	1162.016838	G	<b>1265.583065</b>	633.295170	1248.556516	624.781896	1247.572500	624.289888	12
21	2456.063909	<b>1228.535592</b>	2439.037360	1220.022318	2438.053344	1219.530310	D	<b>1208.561601</b>	604.784438	1191.535052	596.271164	1190.551036	595.779156	11
22	2543.095937	1272.051606	2526.069388	1263.538332	2525.085372	1263.046324	S	<b>1093.534658</b>	547.270967	1076.508109	538.757692	1075.524093	538.265684	10
23	2600.117401	1300.562338	2583.090852	1292.049064	2582.106836	1291.557056	G	<b>1006.502630</b>	503.754953	989.476081	495.241678	988.492065	494.749670	9
24	2657.138865	<b>1329.073070</b>	2640.112316	1320.559796	2639.128300	1320.067788	G	<b>949.481166</b>	475.244221	932.454617	466.730946	931.470601	466.238938	8
25	2754.191629	1377.599452	2737.165080	1369.086178	2736.181064	1368.594170	P	<b>892.459702</b>	446.733489	875.433153	438.220214	874.449137	437.728206	7
26	2867.275693	<b>1434.141484</b>	2850.249144	1425.628210	2849.265128	1425.136202	L	795.406938	398.207107	778.380389	389.693832	777.396373	389.201824	6
27	2966.344107	<b>1483.675691</b>	2949.317558	1475.162417	2948.333542	1474.670409	V	<b>682.322874</b>	341.665075	665.296325	333.151800	664.312309	332.659792	5
28	3126.374756	1563.691016	3109.348207	1555.177741	3108.364191	1554.685733	C	<b>583.254460</b>	292.130868	566.227911	283.617593	565.243895	283.125585	4
29	3273.443170	1637.225223	3256.416621	<b>1628.711948</b>	3255.432605	1628.219940	F	<b>423.223811</b>	212.115543	406.197262	203.602269	405.213246	203.110261	3
30	3402.485763	<b>1701.746519</b>	3385.459214	1693.233245	3384.475198	1692.741237	E	<b>276.155397</b>	138.581337	259.128848	130.068062	258.144832	129.576054	2
31							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VQSTELCAGHLAGGTDSCQGDSGGPLVCFEK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
82.6	3547.584061	0.046571	<a href="#">VQSTELCAGHLAGGTDSCQGDSGGPLVCFEK</a>
4.9	3547.584061	0.046571	<a href="#">VQSTELCAGHLAGGTDSCQGDSGGPLVCFEK</a>



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **TNTQPFDLQVYHPSR**

Found in **LRP1\_HUMAN**, Prolow-density lipoprotein receptor-related protein 1 OS=Homo sapiens GN=LRP1 PE=1 SV=2

Match to Query 41792: 2113.047342 from(705.356390,3+) rtinseconds(2116) index(46692)

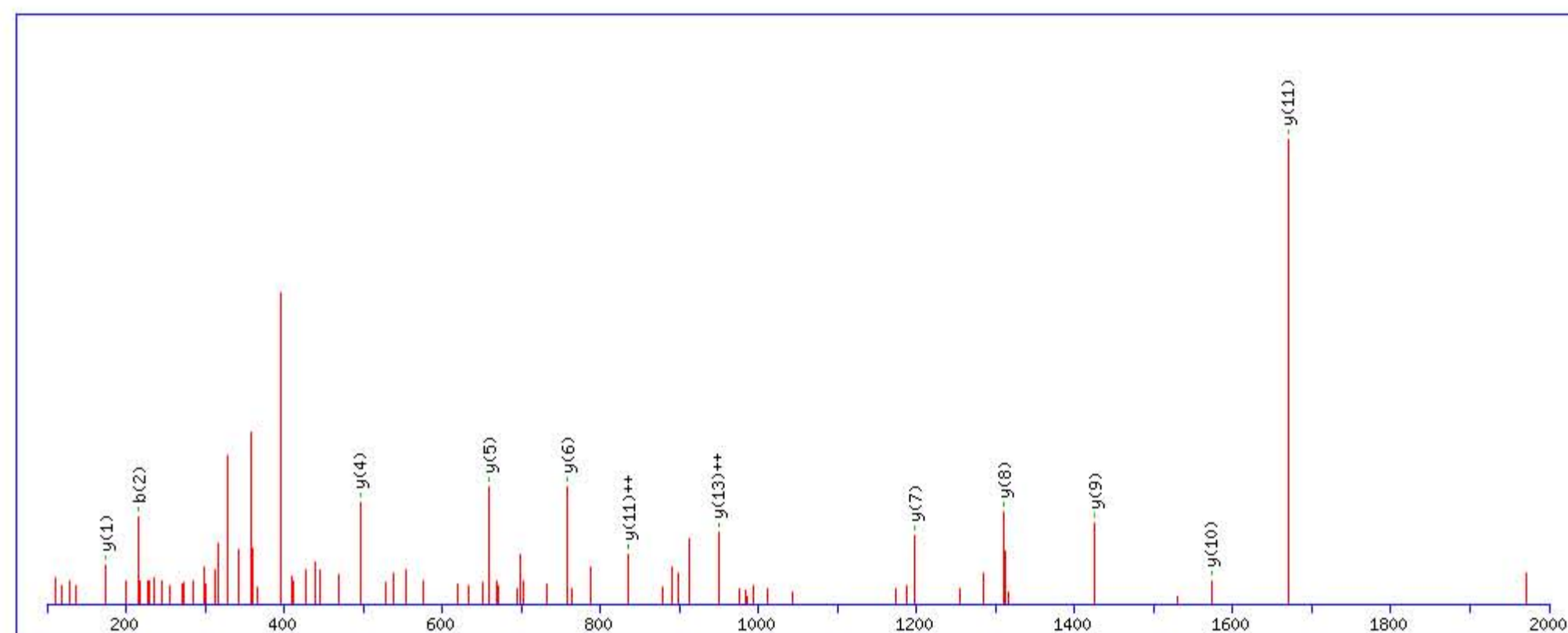
Title: Locus:1.1.1.3449.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2113.041504

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

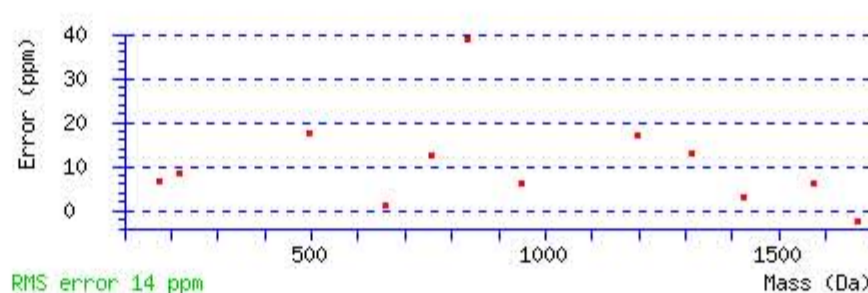
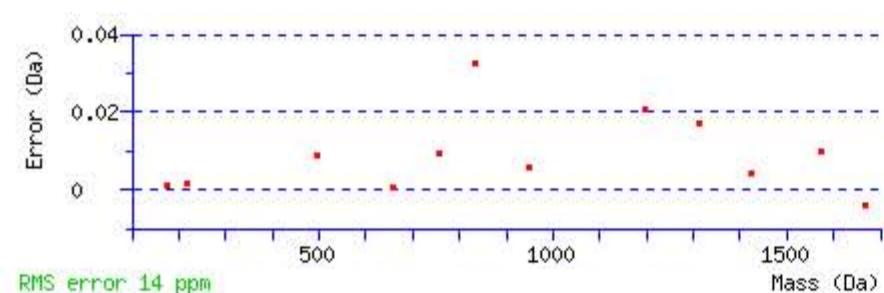
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 62 Expect: 1.7e-005

Matches : 12/164 fragment ions using 17 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							15
2	<b>216.097882</b>	108.552579	199.071333	100.039305	198.087317	99.547296	N	2013.001094	1007.004185	1995.974545	998.490911	1994.990529	997.998903	14
3	317.145561	159.076418	300.119012	150.563144	299.134996	150.071136	T	1898.958167	<b>949.982722</b>	1881.931618	941.469447	1880.947602	940.977439	13
4	445.204139	223.105707	428.177590	214.592433	427.193574	214.100425	Q	1797.910488	899.458882	1780.883939	890.945608	1779.899923	890.453600	12
5	542.256903	271.632090	525.230354	263.118815	524.246338	262.626807	P	<b>1669.851910</b>	<b>835.429593</b>	1652.825361	826.916319	1651.841345	826.424311	11
6	689.325317	345.166297	672.298768	336.653022	671.314752	336.161014	F	<b>1572.799146</b>	786.903211	1555.772597	778.389937	1554.788581	777.897929	10
7	804.352260	402.679768	787.325711	394.166494	786.341695	393.674486	D	<b>1425.730732</b>	713.369004	1408.704183	704.855730	1407.720167	704.363722	9
8	917.436324	459.221800	900.409775	450.708526	899.425759	450.216518	L	<b>1310.703789</b>	655.855533	1293.677240	647.342258	1292.693224	646.850250	8
9	1356.661650	678.834463	1339.635101	670.321189	1338.651085	669.829181	Q	<b>1197.619725</b>	599.313501	1180.593176	590.800226	1179.609160	590.308218	7
10	1455.730064	728.368670	1438.703515	719.855396	1437.719499	719.363388	V	<b>758.394399</b>	379.700838	741.367850	371.187563	740.383834	370.695555	6
11	1618.793393	809.900335	1601.766844	801.387060	1600.782828	800.895052	Y	<b>659.325985</b>	330.166631	642.299436	321.653356	641.315420	321.161348	5
12	1755.852305	878.429791	1738.825756	869.916516	1737.841740	869.424508	H	<b>496.262656</b>	248.634966	479.236107	240.121692	478.252091	239.629684	4
13	1852.905069	926.956173	1835.878520	918.442898	1834.894504	917.950890	P	359.203744	180.105510	342.177195	171.592236	341.193179	171.100228	3
14	1939.937097	970.472187	1922.910548	961.958912	1921.926532	961.466904	S	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	2
15							R	<b>175.118952</b>	88.063114	158.092403	79.549840			1



NCBI BLAST search of **TNTQPFDLQVYHPSR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
61.9	2113.041504	0.005838	<a href="#">TNTQPFDLQVYHPSR</a>
5.0	2113.041504	0.005838	<a href="#">TNTQPFDLQVYHPSR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **TCNHPVPQHGGPFCAGDATR**

Found in **PROP\_HUMAN**, Properdin OS=Homo sapiens GN=CFP PE=1 SV=2

Match to Query 48194: 2489.111296 from(623.285100,4+) rtinseconds(1528) index(58124)

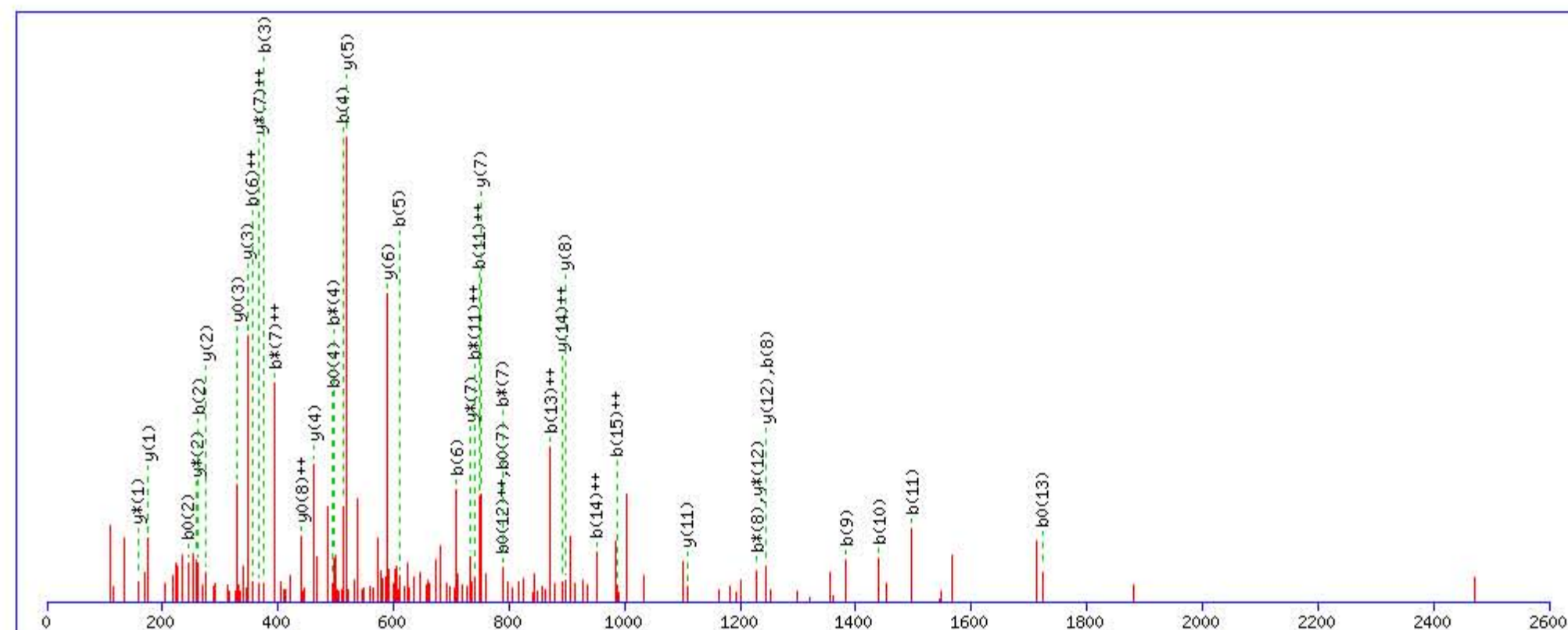
Title: Locus:1.1.1.1443.16 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2489.115128

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

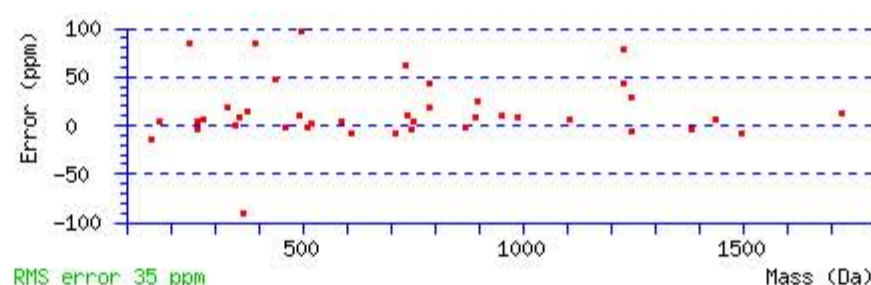
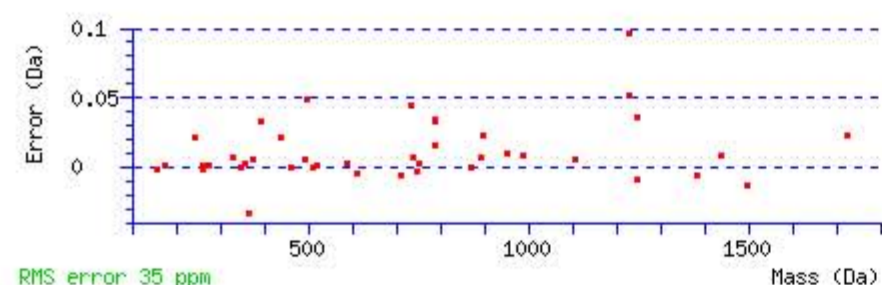
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 45 Expect: 0.00022

Matches : 42/222 fragment ions using 108 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							20
2	<b>262.085604</b>	131.546440			<b>244.075039</b>	122.541158	C	2389.074689	1195.040982	2372.048140	1186.527708	2371.064124	1186.035700	19
3	<b>376.128531</b>	188.567904	359.101982	180.054629	358.117966	179.562621	N	2229.044040	1115.025658	2212.017491	1106.512383	2211.033475	1106.020375	18
4	<b>513.187443</b>	257.097360	<b>496.160894</b>	248.584085	<b>495.176878</b>	248.092077	H	2115.001113	1058.004194	2097.974564	1049.490920	2096.990548	1048.998912	17
5	<b>610.240207</b>	305.623742	593.213658	297.110467	592.229642	296.618459	P	1977.942201	989.474739	1960.915652	980.961464	1959.931636	980.469456	16
6	<b>709.308621</b>	<b>355.157949</b>	692.282072	346.644674	691.298056	346.152666	V	1880.889437	940.948357	1863.862888	932.435082	1862.878872	931.943074	15
7	806.361385	403.684331	<b>789.334836</b>	<b>395.171056</b>	<b>788.350820</b>	394.679048	P	1781.821023	<b>891.414150</b>	1764.794474	882.900875	1763.810458	882.408867	14
8	<b>1245.586711</b>	623.296994	<b>1228.560162</b>	614.783719	1227.576146	614.291711	Q	1684.768259	842.887768	1667.741710	834.374493	1666.757694	833.882485	13
9	<b>1382.645623</b>	691.826450	1365.619074	683.313175	1364.635058	682.821167	H	<b>1245.542933</b>	623.275105	<b>1228.516384</b>	614.761830	1227.532368	614.269822	12
10	<b>1439.667087</b>	720.337182	1422.640538	711.823907	1421.656522	711.331899	G	<b>1108.484021</b>	554.745649	1091.457472	546.232374	1090.473456	545.740366	11
11	<b>1496.688551</b>	<b>748.847914</b>	1479.662002	<b>740.334639</b>	1478.677986	739.842631	G	1051.462557	526.234917	1034.436008	517.721642	1033.451992	517.229634	10
12	1593.741315	797.374296	1576.714766	788.861021	1575.730750	<b>788.369013</b>	P	994.441093	497.724185	977.414544	489.210910	976.430528	488.718902	9
13	1740.809729	<b>870.908503</b>	1723.783180	862.395228	<b>1722.799164</b>	861.903220	F	<b>897.388329</b>	449.197803	880.361780	440.684528	879.377764	<b>440.192520</b>	8
14	1900.840378	<b>950.923827</b>	1883.813829	942.410553	1882.829813	941.918545	C	<b>750.319915</b>	375.663596	<b>733.293366</b>	<b>367.150321</b>	732.309350	366.658313	7
15	1971.877492	<b>986.442384</b>	1954.850943	977.929110	1953.866927	977.437102	A	<b>590.289266</b>	295.648271	573.262717	287.134997	572.278701	286.642989	6
16	2028.898956	1014.953116	2011.872407	1006.439842	2010.888391	1005.947834	G	<b>519.252152</b>	260.129714	502.225603	251.616440	501.241587	251.124432	5
17	2143.925899	1072.466587	2126.899350	1063.953313	2125.915334	1063.461305	D	<b>462.230688</b>	231.618982	445.204139	223.105707	444.220123	222.613700	4
18	2214.963013	1107.985144	2197.936464	1099.471870	2196.952448	1098.979862	A	<b>347.203745</b>	174.105510	330.177196	165.592236	<b>329.193180</b>	165.100228	3
19	2316.010692	1158.508984	2298.984143	1149.995709	2298.000127	1149.503701	T	<b>276.166631</b>	138.586953	<b>259.140082</b>	130.073679	258.156066	129.581671	2
20							R	<b>175.118952</b>	88.063114	<b>158.092403</b>	79.549839			1



NCBI BLAST search of **TCNHPVPQHGGPFCAGDATR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
45.1	2489.115128	-0.003832	<a href="#">TCNHPVPQHGGPFCAGDATR</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **ECLQTCR**

Found in **AMBP\_HUMAN**, Protein AMBP OS=Homo sapiens GN=AMBP PE=1 SV=1

Match to Query 19690: 1276.565768 from(639.290160,2+) rtinseconds(1500) index(28834)

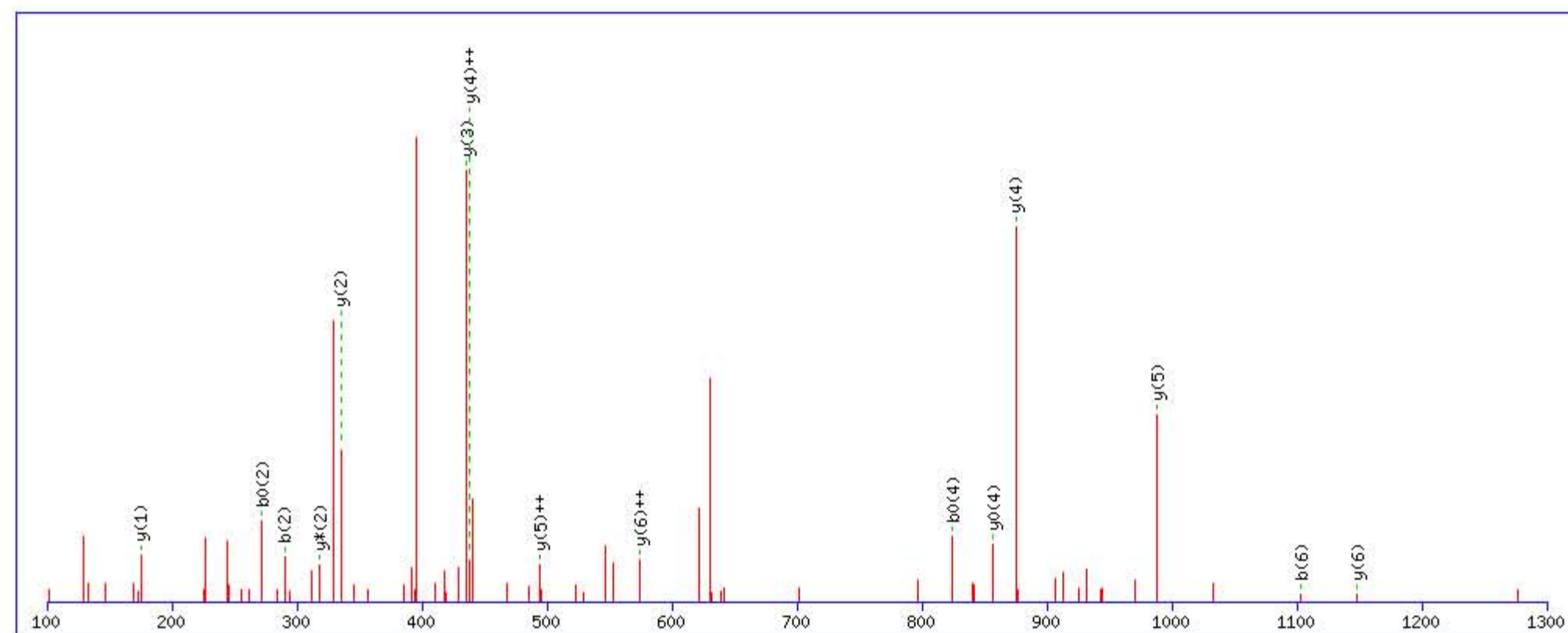
Title: Locus:1.1.1.3185.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1276.572632

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

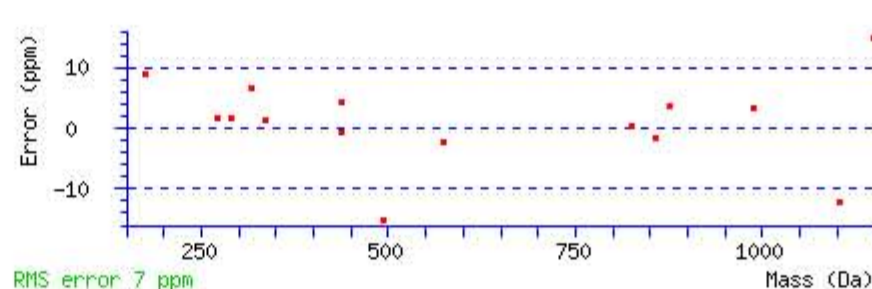
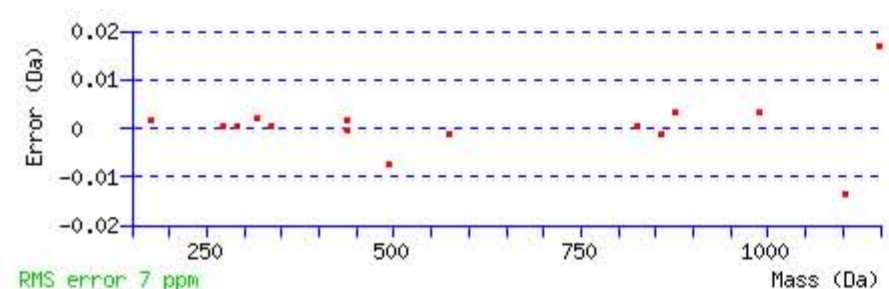
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.016

Matches : 15/62 fragment ions using 37 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							7
2	<b>290.080518</b>	145.543897			<b>272.069953</b>	136.538615	C	<b>1148.537319</b>	<b>574.772298</b>	1131.510770	566.259023	1130.526754	565.767015	6
3	403.164582	202.085929			385.154017	193.080647	L	<b>988.506670</b>	<b>494.756973</b>	971.480121	486.243699	970.496105	485.751691	5
4	842.389908	421.698592	825.363359	413.185318	<b>824.379343</b>	412.693310	Q	<b>875.422606</b>	<b>438.214941</b>	858.396057	429.701667	<b>857.412041</b>	429.209659	4
5	943.437587	472.222432	926.411038	463.709157	925.427022	463.217149	T	<b>436.197280</b>	218.602278	419.170731	210.089003	418.186715	209.596995	3
6	<b>1103.468236</b>	552.237756	1086.441687	543.724482	1085.457671	543.232474	C	<b>335.149601</b>	168.078438	<b>318.123052</b>	159.565164			2
7							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **ECLQTCR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
28.2	1276.572632	-0.006864	<a href="#">ECLQTCR</a>
8.5	1276.583862	-0.018094	<a href="#">KMSLSCHVCR</a>
6.2	1276.571762	-0.005994	<a href="#">AGAESPTMSVDGR</a>
6.0	1276.553116	0.012652	<a href="#">EDLDNASKDDR</a>
5.5	1276.569229	-0.003461	<a href="#">MTGRYEMYAR</a>
5.2	1276.579605	-0.013837	<a href="#">EEQRSPFNDR</a>
1.5	1276.560516	0.005252	<a href="#">DEAEMSPVVER</a>
1.5	1276.560516	0.005252	<a href="#">QQVPSEDSMEK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GECVPGEQEPELIPR**

Found in **AMBP\_HUMAN**, Protein AMBP OS=Homo sapiens GN=AMBP PE=1 SV=1

Match to Query 43791: 2230.108152 from(744.376660,3+) rtinseconds(2303) index(33625)

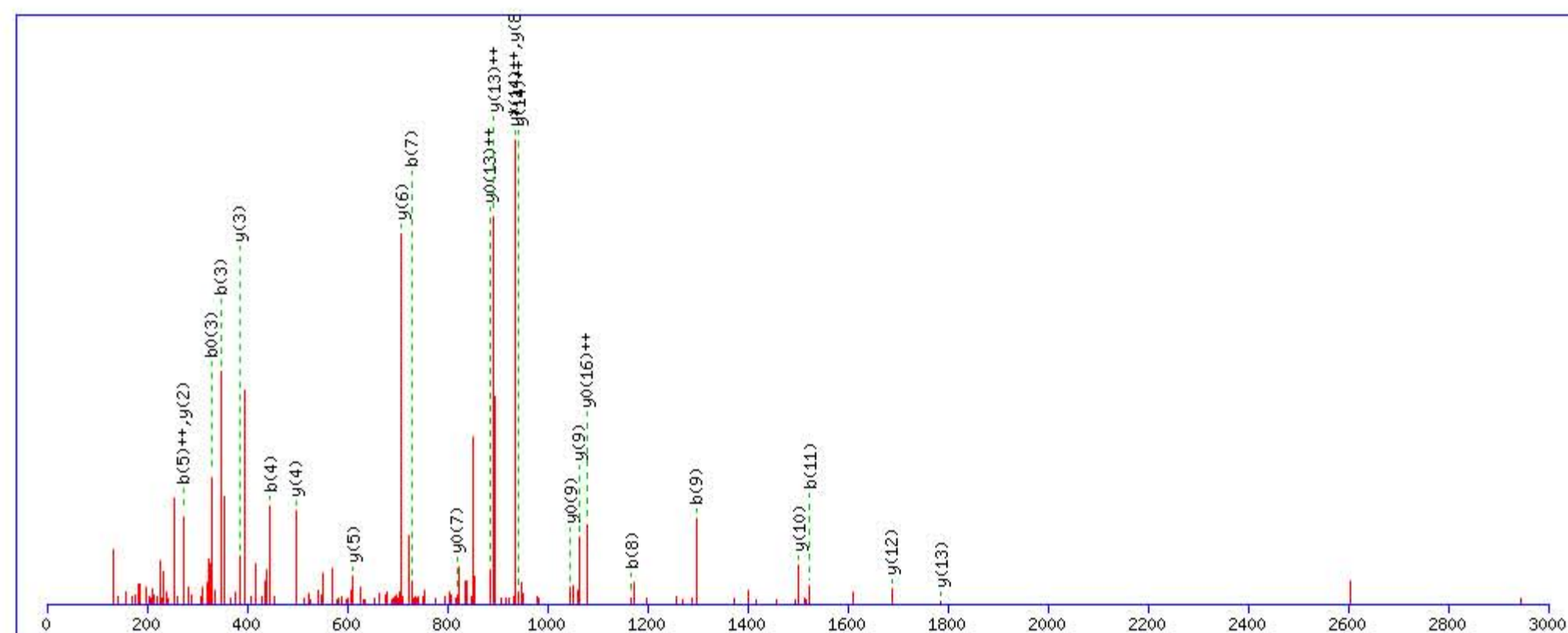
Title: Locus:1.1.1.3465.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2230.112595

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

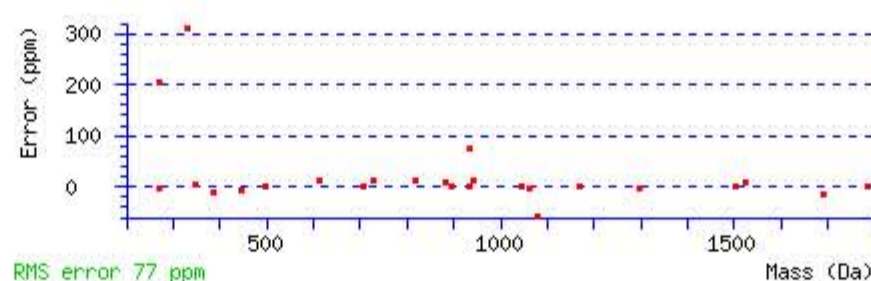
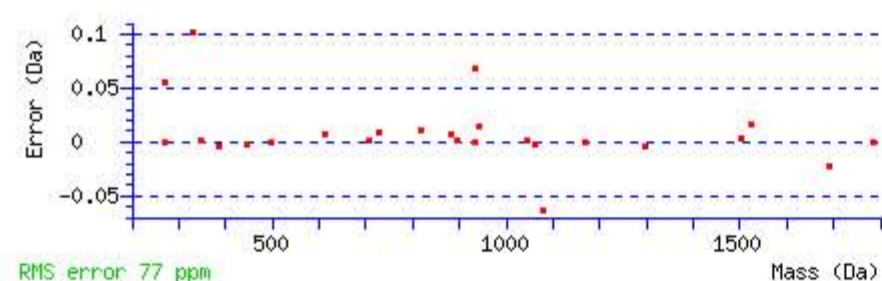
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 38 Expect: 0.00049

Matches : 25/164 fragment ions using 59 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					<b>G</b>							17
2	187.071333	94.039305			169.060768	85.034022	<b>E</b>	2174.098425	1087.552850	2157.071876	1079.039576	2156.087860	<b>1078.547568</b>	16
3	<b>347.101982</b>	174.054629			<b>329.091417</b>	165.049347	<b>C</b>	2045.055832	1023.031554	2028.029283	1014.518279	2027.045267	1014.026271	15
4	<b>446.170396</b>	223.588836			428.159831	214.583554	<b>V</b>	1885.025183	<b>943.016229</b>	1867.998634	<b>934.502955</b>	1867.014618	934.010947	14
5	543.223160	<b>272.115218</b>			525.212595	263.109936	<b>P</b>	<b>1785.956769</b>	<b>893.482022</b>	1768.930220	884.968748	1767.946204	<b>884.476740</b>	13
6	600.244624	300.625950			582.234059	291.620668	<b>G</b>	<b>1688.904005</b>	844.955640	1671.877456	836.442366	1670.893440	835.950358	12
7	<b>729.287217</b>	365.147247			711.276652	356.141964	<b>E</b>	1631.882541	816.444908	1614.855992	807.931634	1613.871976	807.439626	11
8	<b>1168.512543</b>	584.759910	1151.485994	576.246635	1150.501978	575.754627	<b>Q</b>	<b>1502.839948</b>	751.923612	1485.813399	743.410337	1484.829383	742.918329	10
9	<b>1297.555136</b>	649.281206	1280.528587	640.767932	1279.544571	640.275924	<b>E</b>	<b>1063.614622</b>	532.310949	1046.588073	523.797674	<b>1045.604057</b>	523.305666	9
10	1394.607900	697.807588	1377.581351	689.294314	1376.597335	688.802306	<b>P</b>	<b>934.572029</b>	467.789652	917.545480	459.276378	916.561464	458.784370	8
11	<b>1523.650493</b>	762.328885	1506.623944	753.815610	1505.639928	753.323602	<b>E</b>	837.519265	419.263270	820.492716	410.749996	<b>819.508700</b>	410.257988	7
12	1620.703257	810.855267	1603.676708	802.341992	1602.692692	801.849984	<b>P</b>	<b>708.476672</b>	354.741974	691.450123	346.228699			6
13	1733.787321	867.397299	1716.760772	858.884024	1715.776756	858.392016	<b>I</b>	<b>611.423908</b>	306.215592	594.397359	297.702317			5
14	1846.871385	923.939331	1829.844836	915.426056	1828.860820	914.934048	<b>L</b>	<b>498.339844</b>	249.673560	481.313295	241.160285			4
15	1959.955449	980.481363	1942.928900	971.968088	1941.944884	971.476080	<b>I</b>	<b>385.255780</b>	193.131528	368.229231	184.618253			3
16	2057.008213	1029.007744	2039.981664	1020.494470	2038.997648	1020.002462	<b>P</b>	<b>272.171716</b>	136.589496	255.145167	128.076221			2
17							<b>R</b>	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **GECVPGEQEPELIPR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
38.2	2230.112595	-0.004443	<a href="#">GECVPGEQEPELIPR</a>
2.8	2230.090591	0.017561	<a href="#">AELGERPEPVDFSFNPLADK</a>
1.5	2230.122971	-0.014819	<a href="#">QFLGPEGNVDVELIDKSTNR</a>

# MASCOT Search Results

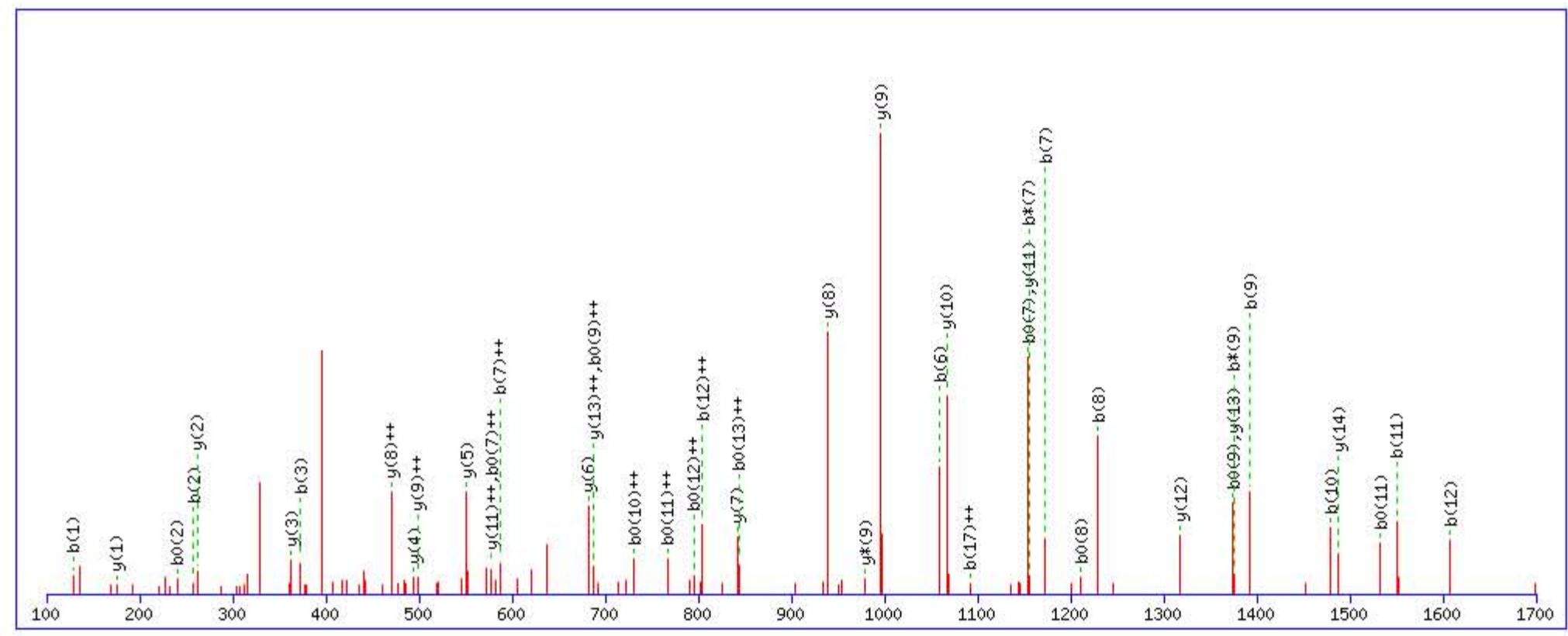
## Peptide View

MS/MS Fragmentation of **KEDSCQLGYSAGPCMGMTSR**

Found in **AMBP\_HUMAN**, Protein AMBP OS=Homo sapiens GN=AMBP PE=1 SV=1

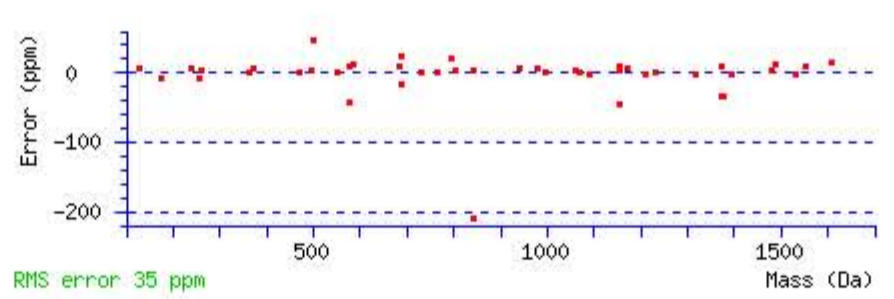
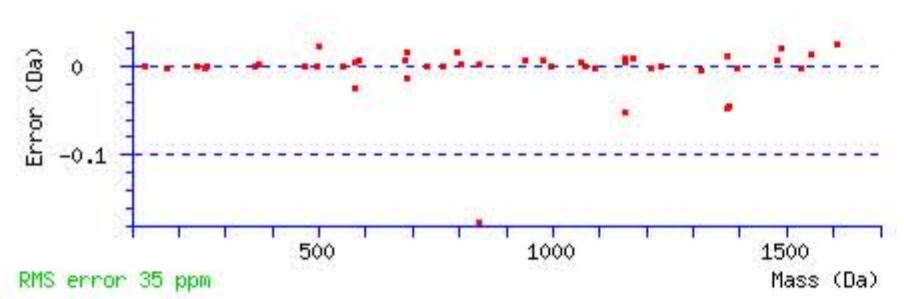
Match to Query 49018: 2545.089612 from(849.370480,3+) rtinseconds(1914) index(45347)  
 Title: Locus:1.1.1.3379.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2545.089188  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q6 : Biotin:Thermo-21345 (Q)  
 Ions Score: 89 Expect: 3.8e-009  
 Matches : 45/224 fragment ions using 67 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>129.102239</b>	65.054757	112.075690	56.541483			<b>K</b>							<b>20</b>
2	<b>258.144832</b>	129.576054	241.118283	121.062780	<b>240.134267</b>	120.570772	<b>E</b>	2418.001508	1209.504392	2400.974959	1200.991117	2399.990943	1200.499109	<b>19</b>
3	<b>373.171775</b>	187.089526	356.145226	178.576251	355.161210	178.084243	<b>D</b>	2288.958915	1144.983095	2271.932366	1136.469821	2270.948350	1135.977813	<b>18</b>
4	460.203803	230.605540	443.177254	222.092265	442.193238	221.600257	<b>S</b>	2173.931972	1087.469624	2156.905423	1078.956349	2155.921407	1078.464341	<b>17</b>
5	620.234452	310.620864	603.207903	302.107590	602.223887	301.615582	<b>C</b>	2086.899944	1043.953610	2069.873395	1035.440335	2068.889379	1034.948327	<b>16</b>
6	<b>1059.459778</b>	530.233527	1042.433229	521.720253	1041.449213	521.228245	<b>Q</b>	1926.869295	963.938286	1909.842746	955.425011	1908.858730	954.933003	<b>15</b>
7	<b>1172.543842</b>	<b>586.775559</b>	<b>1155.517293</b>	578.262285	<b>1154.533277</b>	<b>577.770277</b>	<b>L</b>	<b>1487.643969</b>	744.325623	1470.617420	735.812348	1469.633404	735.320340	<b>14</b>
8	<b>1229.565306</b>	615.286291	1212.538757	606.773017	<b>1211.554741</b>	606.281008	<b>G</b>	<b>1374.559905</b>	<b>687.783591</b>	1357.533356	679.270316	1356.549340	678.778308	<b>13</b>
9	<b>1392.628635</b>	696.817956	<b>1375.602086</b>	688.304681	<b>1374.618070</b>	<b>687.812673</b>	<b>Y</b>	<b>1317.538441</b>	659.272859	1300.511892	650.759584	1299.527876	650.267576	<b>12</b>
10	<b>1479.660663</b>	740.333970	1462.634114	731.820695	1461.650098	<b>731.328687</b>	<b>S</b>	<b>1154.475112</b>	<b>577.741194</b>	1137.448563	569.227920	1136.464547	568.735912	<b>11</b>
11	<b>1550.697777</b>	775.852527	1533.671228	767.339252	<b>1532.687212</b>	<b>766.847244</b>	<b>A</b>	<b>1067.443084</b>	534.225180	1050.416535	525.711906	1049.432519	525.219898	<b>10</b>
12	<b>1607.719241</b>	<b>804.363259</b>	1590.692692	795.849984	1589.708676	<b>795.357976</b>	<b>G</b>	<b>996.405970</b>	<b>498.706623</b>	<b>979.379421</b>	490.193349	978.395405	489.701341	<b>9</b>
13	1704.772005	852.889641	1687.745456	844.376366	1686.761440	<b>843.884358</b>	<b>P</b>	<b>939.384506</b>	<b>470.195891</b>	922.357957	461.682617	921.373941	461.190609	<b>8</b>
14	1864.802654	932.904965	1847.776105	924.391691	1846.792089	923.899683	<b>C</b>	<b>842.331742</b>	421.669509	825.305193	413.156235	824.321177	412.664227	<b>7</b>
15	1995.843139	998.425208	1978.816590	989.911933	1977.832574	989.419925	<b>M</b>	<b>682.301093</b>	341.654185	665.274544	333.140910	664.290528	332.648902	<b>6</b>
16	2052.864603	1026.935939	2035.838054	1018.422665	2034.854038	1017.930657	<b>G</b>	<b>551.260608</b>	276.133942	534.234059	267.620668	533.250043	267.128660	<b>5</b>
17	2183.905088	<b>1092.456182</b>	2166.878539	1083.942907	2165.894523	1083.450899	<b>M</b>	<b>494.239144</b>	247.623210	477.212595	239.109935	476.228579	238.617927	<b>4</b>
18	2284.952767	1142.980021	2267.926218	1134.466747	2266.942202	1133.974739	<b>T</b>	<b>363.198659</b>	182.102967	346.172110	173.589693	345.188094	173.097685	<b>3</b>
19	2371.984795	1186.496035	2354.958246	1177.982761	2353.974230	1177.490753	<b>S</b>	<b>262.150980</b>	131.579128	245.124431	123.065854	244.140415	122.573846	<b>2</b>
20							<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839			<b>1</b>



NCBI BLAST search of **KEDSCQLGYSAGPCMGMTSR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
89.4	2545.089188	0.000424	<a href="#">KEDSCQLGYSAGPCMGMTSR</a>
1.2	2545.110138	-0.020526	<a href="#">QDGSCEASVSFEDVTVDFSR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **VGALSQLR**

Found in **MENT\_HUMAN**, Protein MENT OS=Homo sapiens GN=MENT PE=2 SV=1

Match to Query 16375: 1153.660008 from(577.837280,2+) rtinseconds(1963) index(31583)

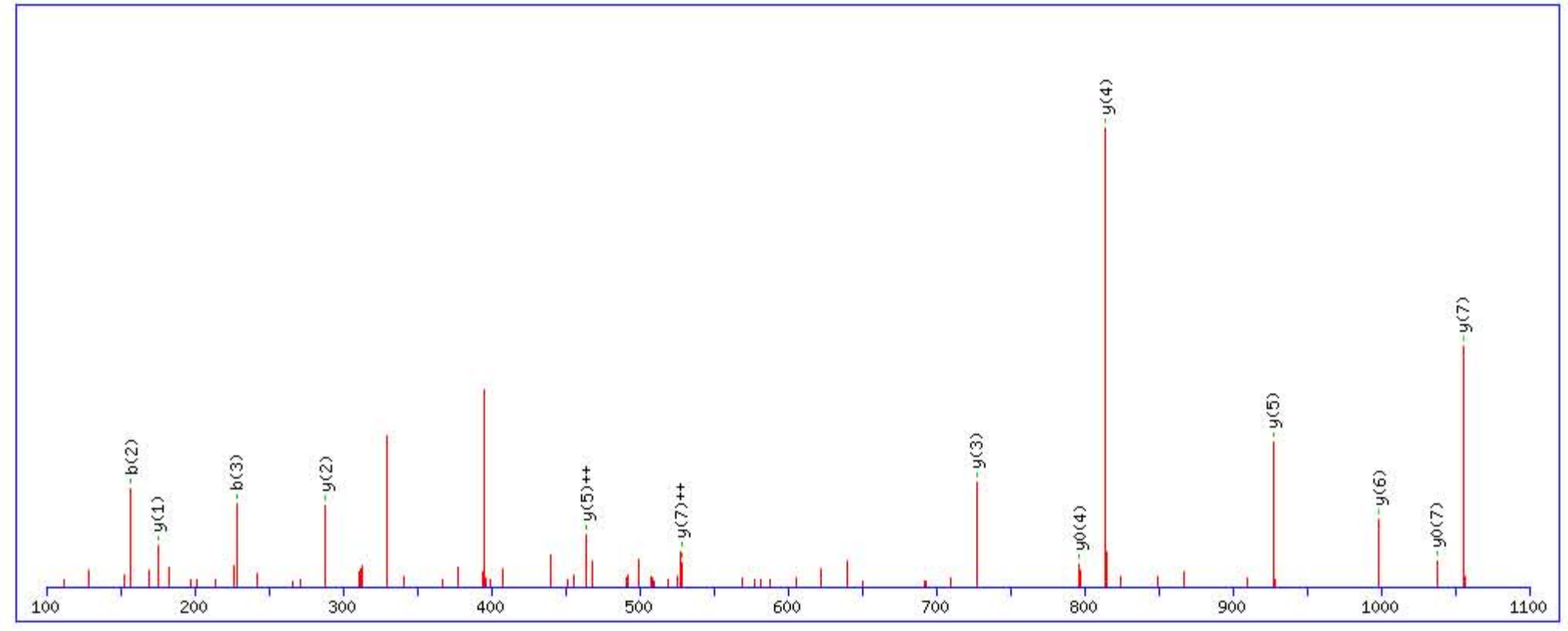
Title: Locus:1.1.1.3347.13 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1153.664139

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

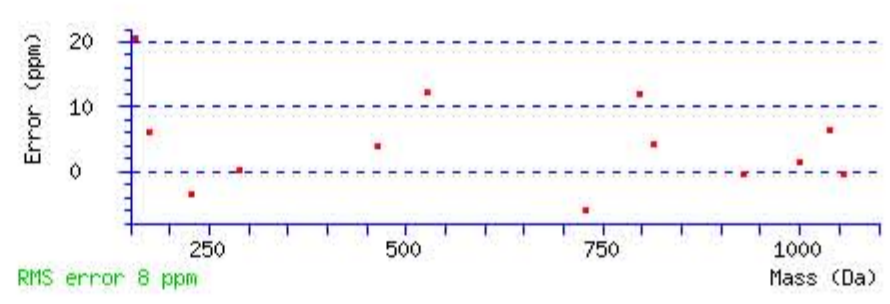
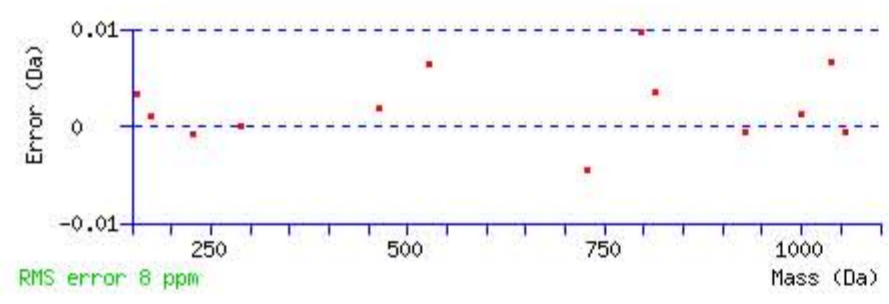
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 53 Expect: 7.6e-005

Matches : 13/60 fragment ions using 20 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							8
2	157.097154	79.052215					G	1055.603012	528.305144	1038.576463	519.791870	1037.592447	519.299862	7
3	228.134268	114.570772					A	998.581548	499.794412	981.554999	491.281138	980.570983	490.789130	6
4	341.218332	171.112804					L	927.544434	464.275855	910.517885	455.762581	909.533869	455.270573	5
5	428.250360	214.628818			410.239795	205.623535	S	814.460370	407.733823	797.433821	399.220549	796.449805	398.728541	4
6	867.475686	434.241481	850.449137	425.728207	849.465121	425.236199	Q	727.428342	364.217809	710.401793	355.704535			3
7	980.559750	490.783513	963.533201	482.270239	962.549185	481.778231	L	288.203016	144.605146	271.176467	136.091872			2
8							R	175.118952	88.063114	158.092403	79.549840			1



NCBI BLAST search of **VGALSQLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
53.3	1153.664139	-0.004131	<a href="#">VGALSQLR</a>
14.4	1153.664124	-0.004116	<a href="#">VKQEALR</a>
13.1	1153.675354	-0.015346	<a href="#">RALLSQR</a>
13.1	1153.675369	-0.015361	<a href="#">RALTVQR</a>
11.0	1153.645477	0.014531	<a href="#">RALAAPVAEEK</a>
9.2	1153.667953	-0.007945	<a href="#">RANPNSIRVK</a>
6.2	1153.656723	0.003285	<a href="#">RPSADPGKKAK</a>
3.5	1153.642822	0.017186	<a href="#">RAPIGQSGRGR</a>
2.5	1153.675369	-0.015361	<a href="#">QTVRALR</a>
1.9	1153.645493	0.014515	<a href="#">NLLKLDAPDR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **ETAASLLQAGYK**

Found in **THRB\_HUMAN**, Prothrombin OS=Homo sapiens GN=F2 PE=1 SV=2

Match to Query 28801: 1561.812528 from(781.913540,2+) rtinseconds(2139) index(46847)

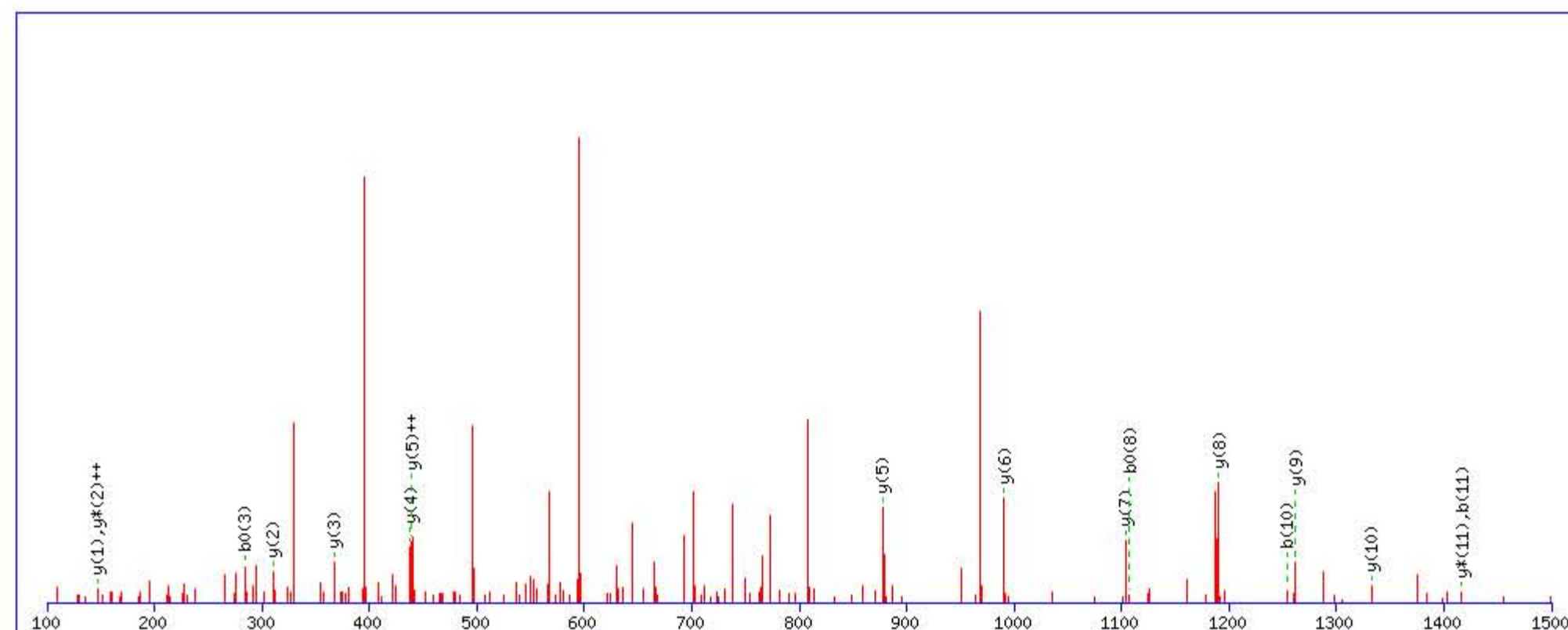
Title: Locus:1.1.1.3457.18 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1561.817383

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

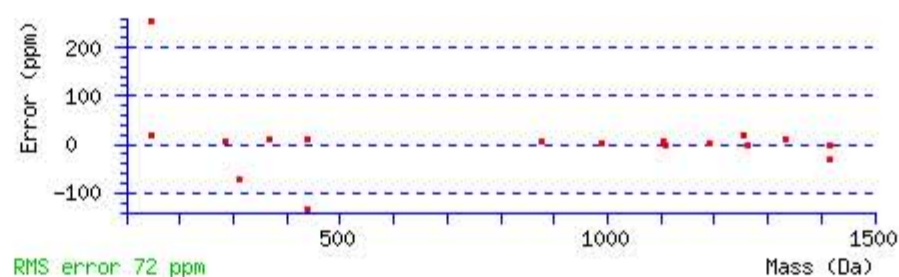
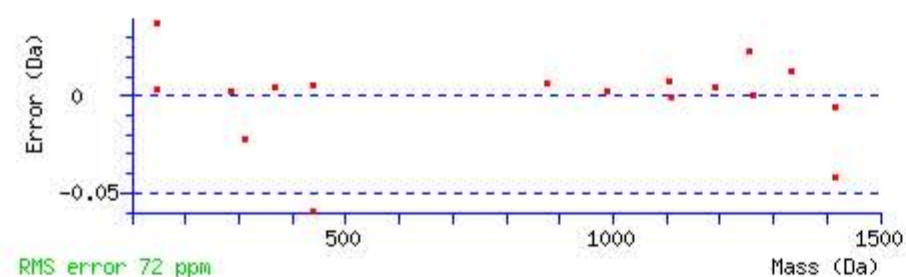
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.0016

Matches : 17/104 fragment ions using 55 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							12
2	231.097548	116.052412			213.086983	107.047130	T	1433.782100	717.394688	1416.755551	708.881414	1415.771535	708.389406	11
3	302.134662	151.570969			284.124097	142.565687	A	1332.734421	666.870848	1315.707872	658.357574	1314.723856	657.865566	10
4	373.171776	187.089526			355.161211	178.084243	A	1261.697307	631.352292	1244.670758	622.839017	1243.686742	622.347009	9
5	460.203804	230.605540			442.193239	221.600257	S	1190.660193	595.833734	1173.633644	587.320460	1172.649628	586.828452	8
6	573.287868	287.147572			555.277303	278.142290	L	1103.628165	552.317721	1086.601616	543.804446			7
7	686.371932	343.689604			668.361367	334.684322	L	990.544101	495.775689	973.517552	487.262414			6
8	1125.597258	563.302267	1108.570709	554.788993	1107.586693	554.296985	Q	877.460037	439.233657	860.433488	430.720382			5
9	1196.634372	598.820824	1179.607823	590.307550	1178.623807	589.815541	A	438.234711	219.620993	421.208162	211.107719			4
10	1253.655836	627.331556	1236.629287	618.818282	1235.645271	618.326273	G	367.197597	184.102436	350.171048	175.589162			3
11	1416.719165	708.863221	1399.692616	700.349946	1398.708600	699.857938	Y	310.176133	155.591705	293.149584	147.078430			2
12							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [ETAASLLQAGYK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
33.3	1561.817383	-0.004855	<a href="#">ETAASLLQAGYK</a>
3.3	1561.828613	-0.016085	<a href="#">QLASRYASVEK</a>
1.2	1561.821243	-0.008715	<a href="#">TEKHPPVSPGRTEK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **TATSEYQTFNPR**

Found in **THRB\_HUMAN**, Prothrombin OS=Homo sapiens GN=F2 PE=1 SV=2

Match to Query 37067: 1871.887692 from(624.969840,3+) rtinseconds(2291) index(47802)

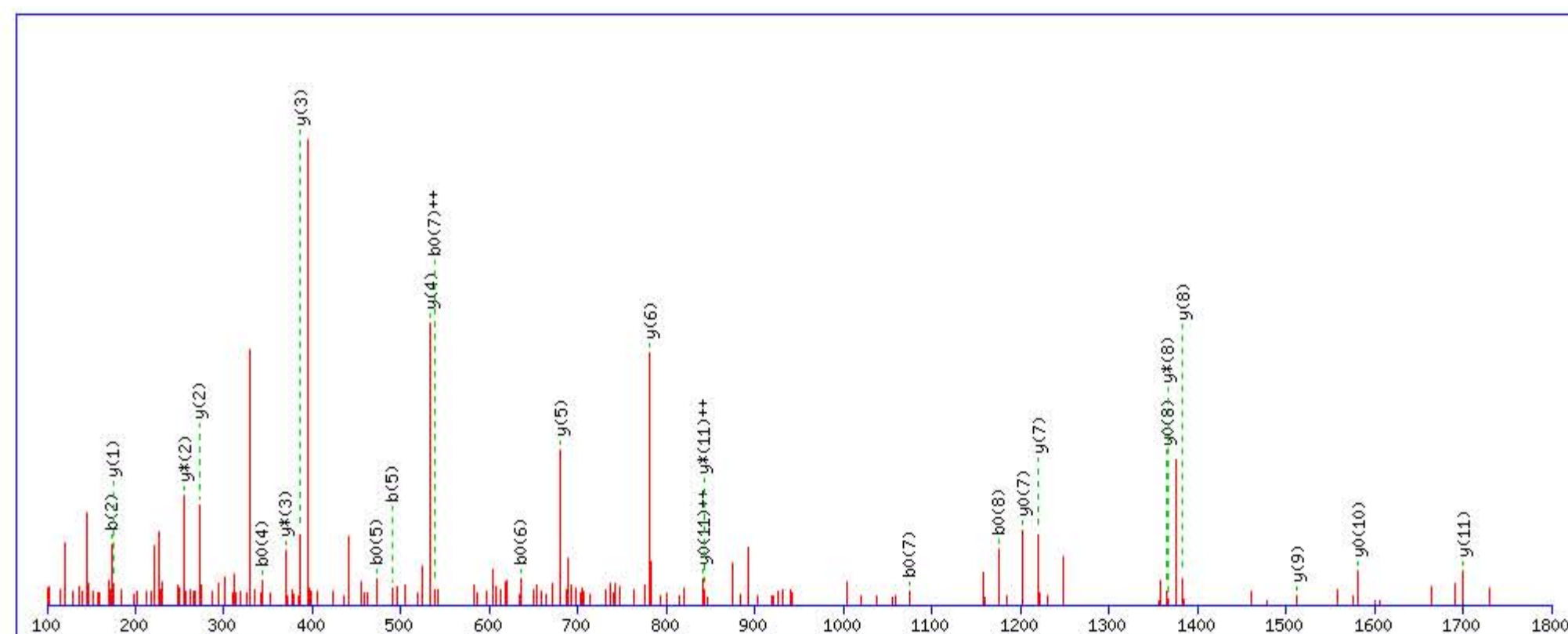
Title: Locus:1.1.1.3510.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1871.887619

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

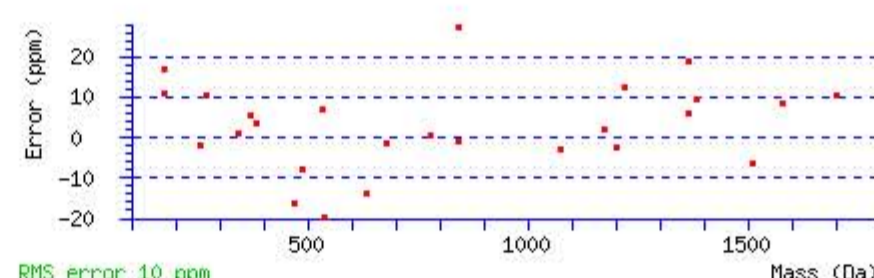
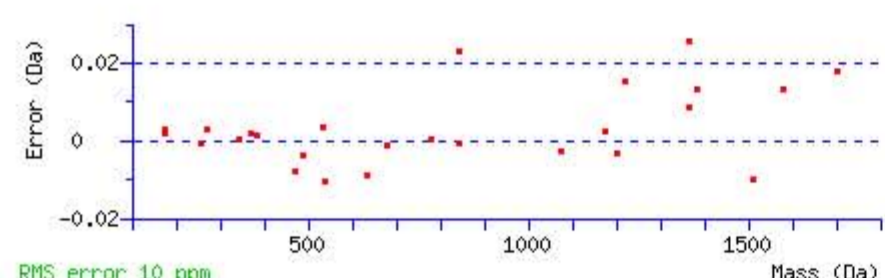
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 30 Expect: 0.016

Matches : 26/122 fragment ions using 87 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							13
2	<b>173.092069</b>	87.049672			155.081504	78.044390	A	1771.847219	886.427248	1754.820670	877.913973	1753.836654	877.421965	12
3	274.139748	137.573512			256.129183	128.568230	T	<b>1700.810105</b>	850.908691	1683.783556	<b>842.395416</b>	1682.799540	<b>841.903408</b>	11
4	361.171776	181.089526			<b>343.161211</b>	172.084243	S	1599.762426	800.384851	1582.735877	791.871577	<b>1581.751861</b>	791.379569	10
5	<b>490.214369</b>	245.610822			<b>472.203804</b>	236.605540	E	<b>1512.730398</b>	756.868837	1495.703849	748.355563	1494.719833	747.863555	9
6	653.277698	327.142487			<b>635.267133</b>	318.137205	Y	<b>1383.687805</b>	692.347541	<b>1366.661256</b>	683.834266	<b>1365.677240</b>	683.342258	8
7	1092.503024	546.755150	1075.476475	538.241876	<b>1074.492459</b>	<b>537.749868</b>	Q	<b>1220.624476</b>	610.815876	1203.597927	602.302602	<b>1202.613911</b>	601.810594	7
8	1193.550703	597.278990	1176.524154	588.765715	<b>1175.540138</b>	588.273707	T	<b>781.399150</b>	391.203213	764.372601	382.689939	763.388585	382.197931	6
9	1340.619117	670.813197	1323.592568	662.299922	1322.608552	661.807914	F	<b>680.351471</b>	340.679374	663.324922	332.166099			5
10	1487.687531	744.347404	1470.660982	735.834129	1469.676966	735.342121	F	<b>533.283057</b>	267.145167	516.256508	258.631892			4
11	1601.730458	801.368867	1584.703909	792.855593	1583.719893	792.363585	N	<b>386.214643</b>	193.610959	<b>369.188094</b>	185.097685			3
12	1698.783222	849.895249	1681.756673	841.381975	1680.772657	840.889967	P	<b>272.171716</b>	136.589496	<b>255.145167</b>	128.076221			2
13							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [TATSEYQTFNPR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
30.2	1871.887619	0.000073	<a href="#">TATSEYQTFNPR</a>

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



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **KSPQELLCGASLISDR**

Found in **THRB\_HUMAN**, Prothrombin OS=Homo sapiens GN=F2 PE=1 SV=2

Match to Query 41354: 2084.075982 from(695.699270,3+) rtinseconds(2291) index(47804)

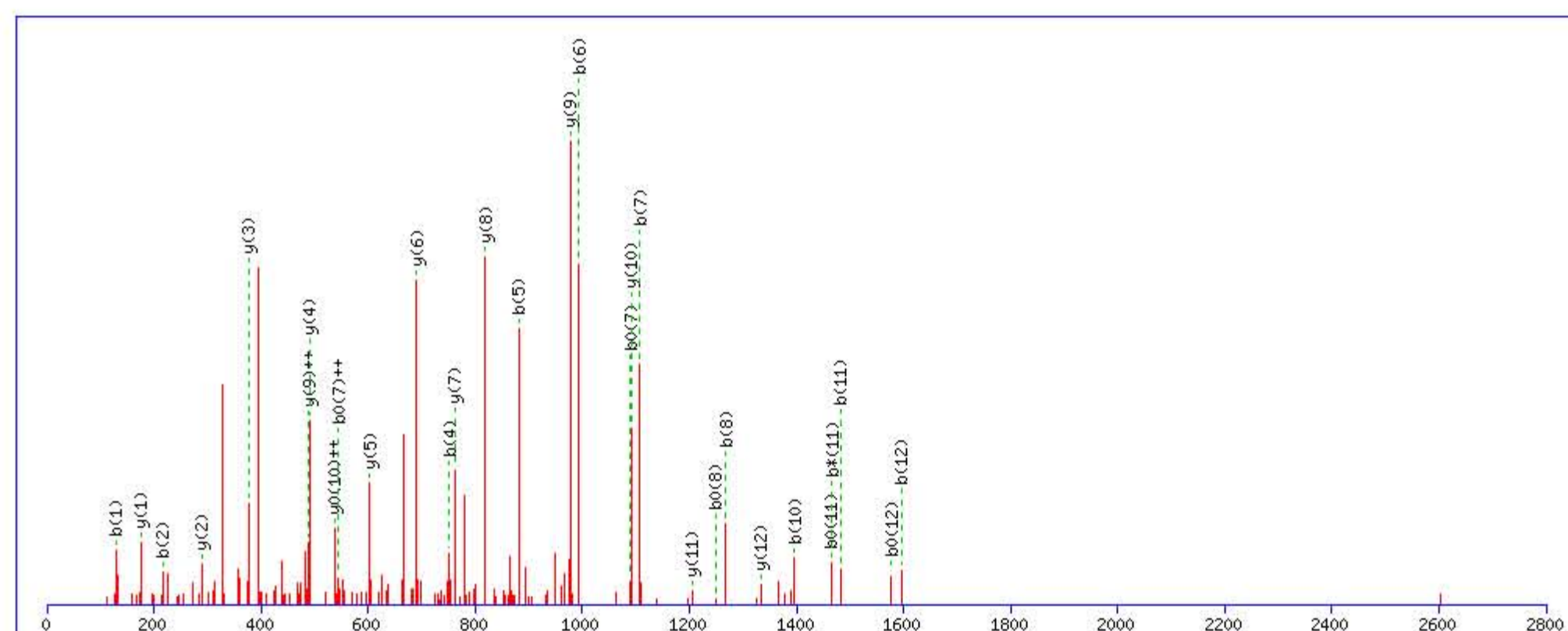
Title: Locus:1.1.1.3510.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2084.075806

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

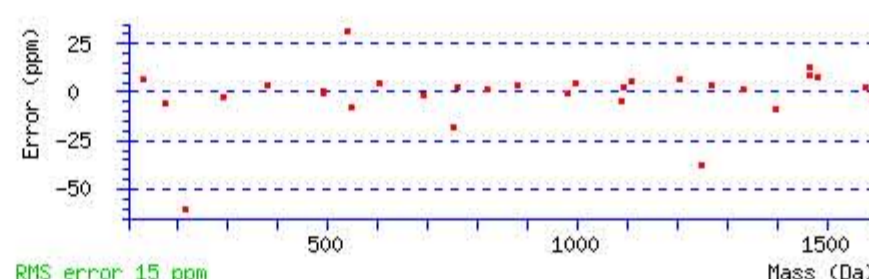
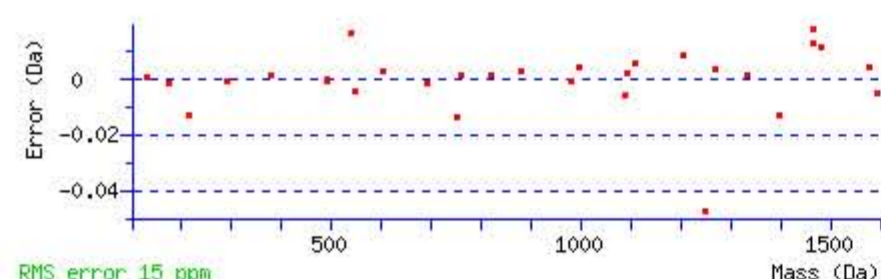
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 90 Expect: 2.6e-008

Matches : 30/176 fragment ions using 43 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>129.102239</b>	65.054757	112.075690	56.541483			<b>K</b>							<b>16</b>
2	<b>216.134267</b>	108.570771	199.107718	100.057497	198.123702	99.565489	<b>S</b>	1956.988145	978.997711	1939.961596	970.484436	1938.977580	969.992428	<b>15</b>
3	313.187031	157.097153	296.160482	148.583879	295.176466	148.091871	<b>P</b>	1869.956117	935.481697	1852.929568	926.968422	1851.945552	926.476414	<b>14</b>
4	<b>752.412357</b>	376.709817	735.385808	368.196542	734.401792	367.704534	<b>Q</b>	1772.903353	886.955314	1755.876804	878.442040	1754.892788	877.950032	<b>13</b>
5	<b>881.454950</b>	441.231113	864.428401	432.717839	863.444385	432.225831	<b>E</b>	<b>1333.678027</b>	667.342652	1316.651478	658.829377	1315.667462	658.337369	<b>12</b>
6	<b>994.539014</b>	497.773145	977.512465	489.259871	976.528449	488.767863	<b>L</b>	<b>1204.635434</b>	602.821355	1187.608885	594.308081	1186.624869	593.816073	<b>11</b>
7	<b>1107.623078</b>	554.315177	1090.596529	545.801903	<b>1089.612513</b>	<b>545.309895</b>	<b>L</b>	<b>1091.551370</b>	546.279323	1074.524821	537.766049	1073.540805	<b>537.274040</b>	<b>10</b>
8	<b>1267.653727</b>	634.330502	1250.627178	625.817227	<b>1249.643162</b>	625.325219	<b>C</b>	<b>978.467306</b>	<b>489.737291</b>	961.440757	481.224017	960.456741	480.732009	<b>9</b>
9	1324.675191	662.841234	1307.648642	654.327959	1306.664626	653.835951	<b>G</b>	<b>818.436657</b>	409.721967	801.410108	401.208692	800.426092	400.716684	<b>8</b>
10	<b>1395.712305</b>	698.359791	1378.685756	689.846516	1377.701740	689.354508	<b>A</b>	<b>761.415193</b>	381.211235	744.388644	372.697960	743.404628	372.205952	<b>7</b>
11	<b>1482.744333</b>	741.875805	<b>1465.717784</b>	733.362530	<b>1464.733768</b>	732.870522	<b>S</b>	<b>690.378079</b>	345.692678	673.351530	337.179403	672.367514	336.687395	<b>6</b>
12	<b>1595.828397</b>	798.417837	1578.801848	789.904562	<b>1577.817832</b>	789.412554	<b>L</b>	<b>603.346051</b>	302.176664	586.319502	293.663389	585.335486	293.171381	<b>5</b>
13	1708.912461	854.959868	1691.885912	846.446594	1690.901896	845.954586	<b>I</b>	<b>490.261987</b>	245.634631	473.235438	237.121357	472.251422	236.629349	<b>4</b>
14	1795.944489	898.475883	1778.917940	889.962608	1777.933924	889.470600	<b>S</b>	<b>377.177923</b>	189.092600	360.151374	180.579325	359.167358	180.087317	<b>3</b>
15	1910.971432	955.989354	1893.944883	947.476080	1892.960867	946.984072	<b>D</b>	<b>290.145895</b>	145.576585	273.119346	137.063311	272.135330	136.571303	<b>2</b>
16							<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839			<b>1</b>



NCBI BLAST search of **KSPQELLCGASLISDR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
90.5	2084.075806	0.000176	<a href="#">KSPQELLCGASLISDR</a>
10.7	2084.050659	0.025323	<a href="#">EGSSEISQRVQSR</a>
10.6	2084.090225	-0.014243	<a href="#">SKYDVPGPPLNVTITDVNR</a>
6.4	2084.097565	-0.021583	<a href="#">KEFIMAELIQTEKAYVR</a>
6.4	2084.097565	-0.021583	<a href="#">KEFIMAELLQTEKAYVR</a>
5.7	2084.045959	0.030023	<a href="#">EDQLDTVLAVLEDSAR</a>
4.6	2084.101425	-0.025443	<a href="#">KAILRVAELSSDDFHLDR</a>
2.0	2084.083679	-0.007697	<a href="#">EDLISFLCGKVPPRNSR</a>
0.8	2084.071091	0.004891	<a href="#">LAPSEITEELPSSQLMPVK</a>

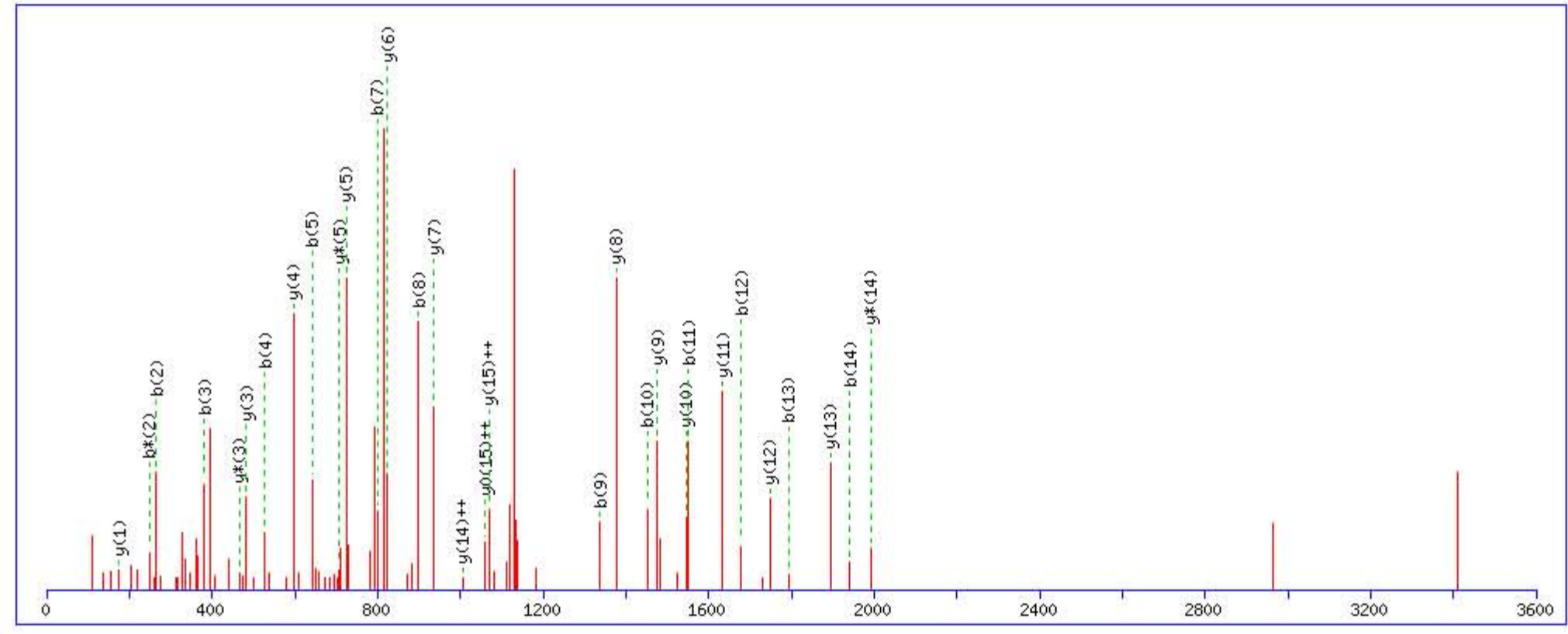
# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **HQDFNSAVQLVENFCR**  
 Found in **THRB\_HUMAN**, Prothrombin OS=Homo sapiens GN=F2 PE=1 SV=2

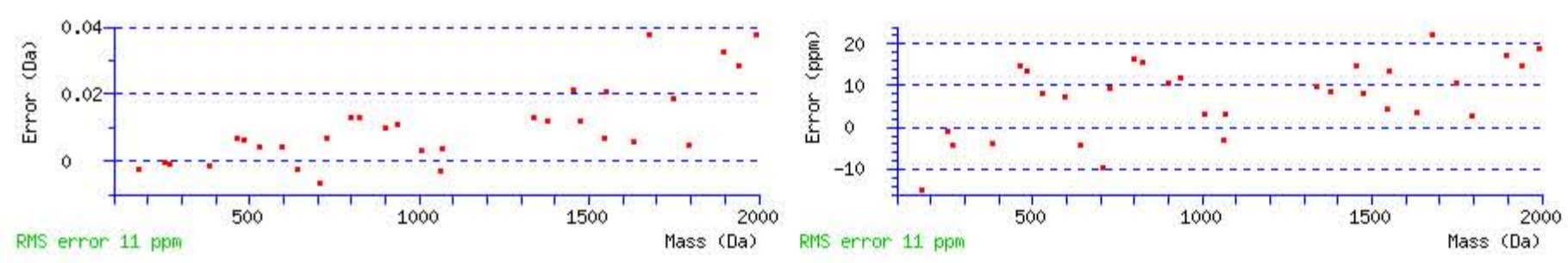
Match to Query 44597: 2274.088308 from(1138.051430,2+) rtinseconds(2469) index(62995)  
 Title: Locus:1.1.1.1771.12 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2274.067398  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q9 : Biotin:Thermo-21345 (Q)  
 Ions Score: 89 Expect: 2.8e-008  
 Matches : 31/166 fragment ions using 50 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							16
2	<b>266.124766</b>	133.566021	<b>249.098217</b>	125.052746			Q	2138.015757	<b>1069.511516</b>	2120.989208	1060.998242	2120.005192	<b>1060.506234</b>	15
3	<b>381.151709</b>	191.079492	364.125160	182.566218	363.141144	182.074210	D	2009.957179	<b>1005.482228</b>	<b>1992.930630</b>	996.968953	1991.946614	996.476945	14
4	<b>528.220123</b>	264.613700	511.193574	256.100425	510.209558	255.608417	F	<b>1894.930236</b>	947.968756	1877.903687	939.455482	1876.919671	938.963474	13
5	<b>642.263050</b>	321.635163	625.236501	313.121889	624.252485	312.629881	N	<b>1747.861822</b>	874.434549	1730.835273	865.921275	1729.851257	865.429267	12
6	729.295078	365.151177	712.268529	356.637903	711.284513	356.145895	S	<b>1633.818895</b>	817.413086	1616.792346	808.899811	1615.808330	808.407803	11
7	<b>800.332192</b>	400.669734	783.305643	392.156459	782.321627	391.664451	A	<b>1546.786867</b>	773.897072	1529.760318	765.383797	1528.776302	764.891789	10
8	<b>899.400606</b>	450.203941	882.374057	441.690666	881.390041	441.198658	V	<b>1475.749753</b>	738.378515	1458.723204	729.865240	1457.739188	729.373232	9
9	<b>1338.625932</b>	669.816604	1321.599383	661.303330	1320.615367	660.811322	Q	<b>1376.681339</b>	688.844308	1359.654790	680.331033	1358.670774	679.839025	8
10	<b>1451.709996</b>	726.358636	1434.683447	717.845362	1433.699431	717.353354	L	<b>937.456013</b>	469.231645	920.429464	460.718370	919.445448	460.226362	7
11	<b>1550.778410</b>	775.892843	1533.751861	767.379569	1532.767845	766.887561	V	<b>824.371949</b>	412.689613	807.345400	404.176338	806.361384	403.684330	6
12	<b>1679.821003</b>	840.414140	1662.794454	831.900865	1661.810438	831.408857	E	<b>725.303535</b>	363.155406	<b>708.276986</b>	354.642131	707.292970	354.150123	5
13	<b>1793.863930</b>	897.435603	1776.837381	888.922329	1775.853365	888.430321	N	<b>596.260942</b>	298.634109	579.234393	290.120835			4
14	<b>1940.932344</b>	970.969810	1923.905795	962.456536	1922.921779	961.964528	F	<b>482.218015</b>	241.612646	<b>465.191466</b>	233.099371			3
15	2100.962993	1050.985135	2083.936444	1042.471860	2082.952428	1041.979852	C	335.149601	168.078438	318.123052	159.565164			2
16							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **HQDFNSAVQLVENFCR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
89.1	2274.067398	0.020910	<a href="#">HQDFNSAVQLVENFCR</a>
14.4	2274.067398	0.020910	<a href="#">HQDFNSAVQLVENFCR</a>

# MASCOT Search Results

## Peptide View

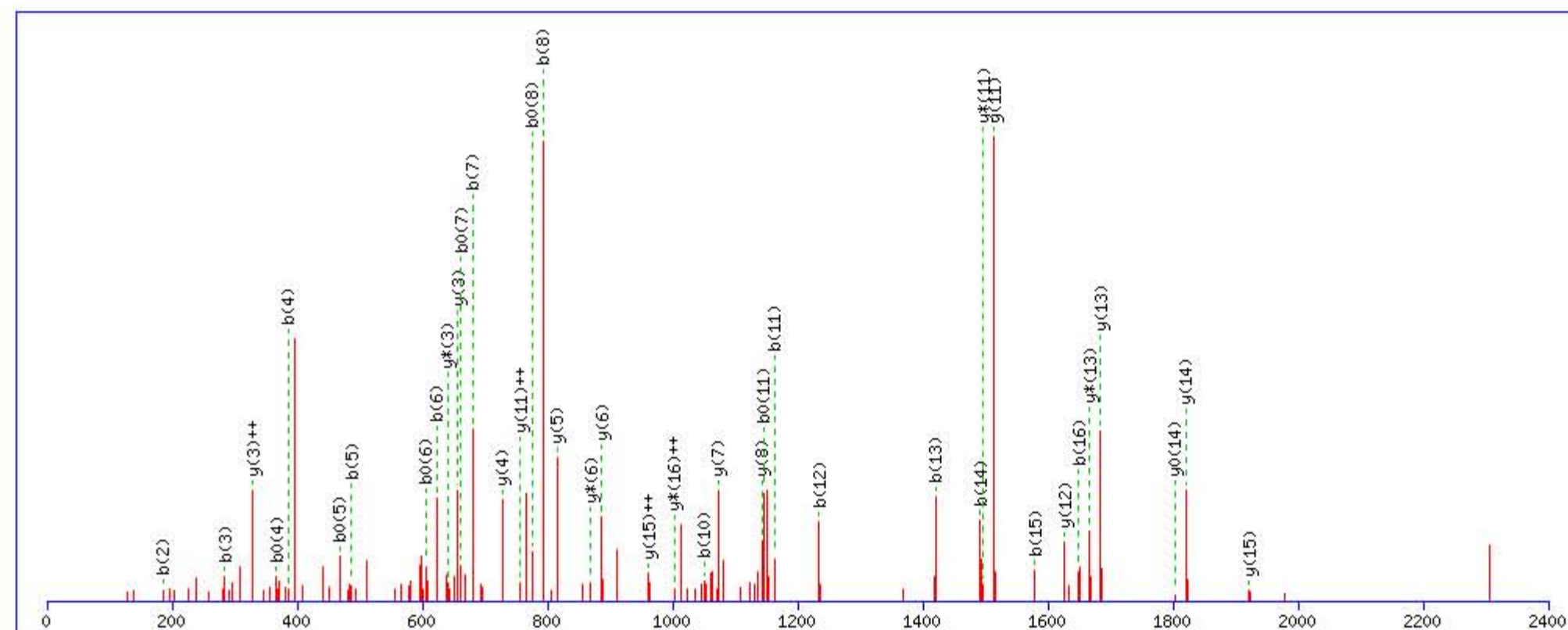
MS/MS Fragmentation of **LAVTTHGLPCLAWASAQAK**  
 Found in **THRB\_HUMAN**, Prothrombin OS=Homo sapiens GN=F2 PE=1 SV=2

Match to Query 45189: 2305.219168 from(1153.616860,2+) rtinseconds(2367) index(48139)  
 Title: Locus:1.1.1.3536.23 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

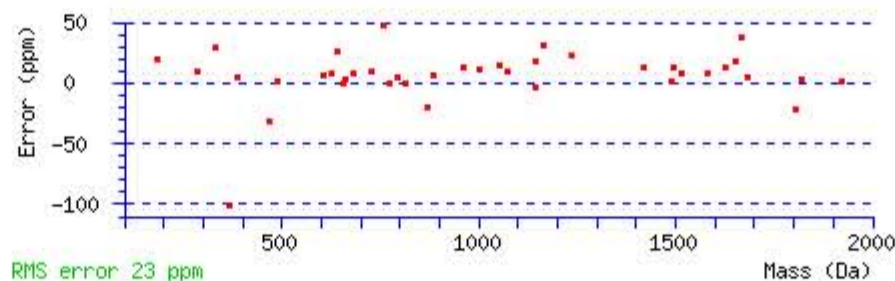
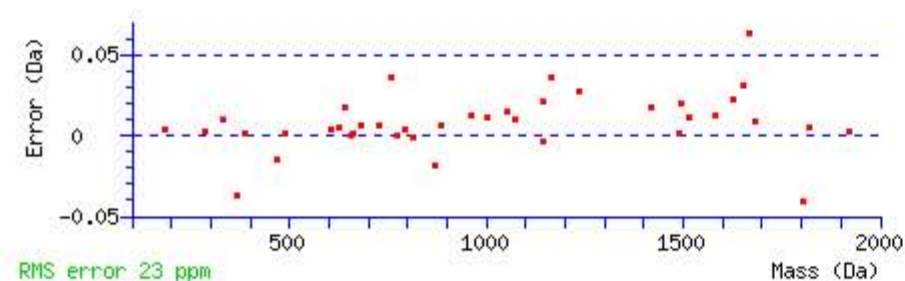
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2305.207504  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q17 : Biotin:Thermo-21345 (Q)  
 Ions Score: 53 Expect: 0.00014  
 Matches : 40/170 fragment ions using 122 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							19
2	<b>185.128454</b>	93.067865					A	2193.130730	1097.069003	2176.104181	1088.555728	2175.120165	1088.063720	18
3	<b>284.196868</b>	142.602072					V	2122.093616	1061.550446	2105.067067	1053.037171	2104.083051	1052.545163	17
4	<b>385.244547</b>	193.125912			367.233982	184.120629	T	2023.025202	1012.016239	2005.998653	<b>1003.502965</b>	2005.014637	1003.010957	16
5	<b>486.292226</b>	243.649751			468.281661	234.644469	T	<b>1921.977523</b>	<b>961.492400</b>	1904.950974	952.979125	1903.966958	952.487117	15
6	<b>623.351138</b>	312.179207			605.340573	303.173925	H	<b>1820.929844</b>	910.968560	1803.903295	902.455286	<b>1802.919279</b>	901.963278	14
7	<b>680.372602</b>	340.689939			662.362037	331.684657	G	<b>1683.870932</b>	842.439104	<b>1666.844383</b>	833.925830	1665.860367	833.433822	13
8	<b>793.456666</b>	397.231971			775.446101	388.226689	L	<b>1626.849468</b>	813.928372	1609.822919	805.415098	1608.838903	804.923090	12
9	890.509430	445.758353			872.498865	436.753071	P	<b>1513.765404</b>	<b>757.386340</b>	<b>1496.738855</b>	748.873066	1495.754839	748.381058	11
10	<b>1050.540079</b>	525.773678			1032.529514	516.768395	C	1416.712640	708.859958	1399.686091	700.346684	1398.702075	699.854675	10
11	<b>1163.624143</b>	582.315710			1145.613578	573.310427	L	1256.681991	628.844634	1239.655442	620.331359	1238.671426	619.839351	9
12	<b>1234.661257</b>	617.834267			1216.650692	608.828984	A	<b>1143.597927</b>	572.302602	1126.571378	563.789327	1125.587362	563.297319	8
13	<b>1420.740570</b>	710.873923			1402.730005	701.868640	W	<b>1072.560813</b>	536.784045	1055.534264	528.270770	1054.550248	527.778762	7
14	<b>1491.777684</b>	746.392480			1473.767119	737.387197	A	<b>886.481500</b>	443.744388	<b>869.454951</b>	435.231114	868.470935	434.739106	6
15	<b>1578.809712</b>	789.908494			1560.799147	780.903212	S	<b>815.444386</b>	408.225831	798.417837	399.712557	797.433821	399.220549	5
16	<b>1649.846826</b>	825.427051			1631.836261	816.421768	A	<b>728.412358</b>	364.709817	711.385809	356.196543			4
17	2089.072152	1045.039714	2072.045603	1036.526439	2071.061587	1036.034431	Q	<b>657.375244</b>	<b>329.191260</b>	<b>640.348695</b>	320.677986			3
18	2160.109266	1080.558271	2143.082717	1072.044996	2142.098701	1071.552988	A	218.149918	109.578597	201.123369	101.065323			2
19							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LAVTTHGLPCLAWASAQAK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
52.5	2305.207504	0.011664	<a href="#">LAVTTHGLPCLAWASAQAK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SEGSSVNLSPPLEQCVDR**

Found in **THRB\_HUMAN**, Prothrombin OS=Homo sapiens GN=F2 PE=1 SV=2

Match to Query 46125: 2381.140572 from(794.720800,3+) rtinseconds(2202) index(47255)

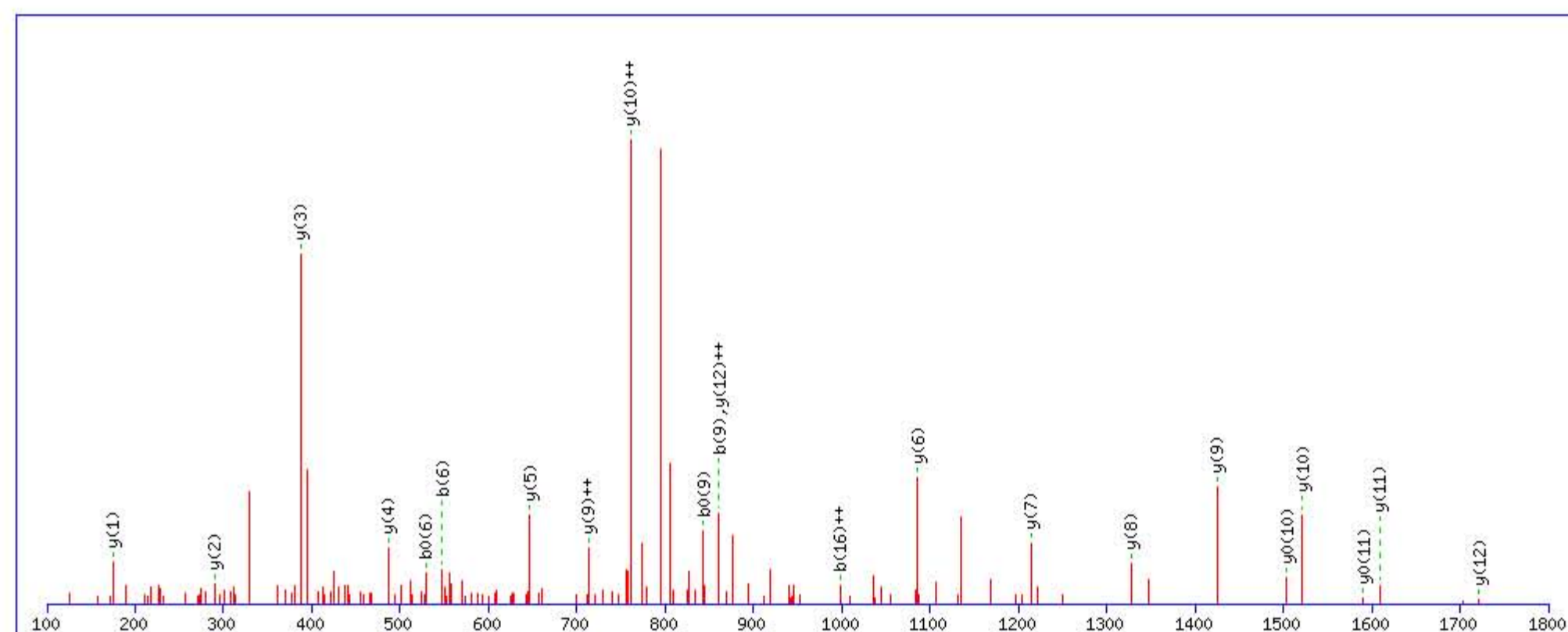
Title: Locus:1.1.1.3479.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2381.135529

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

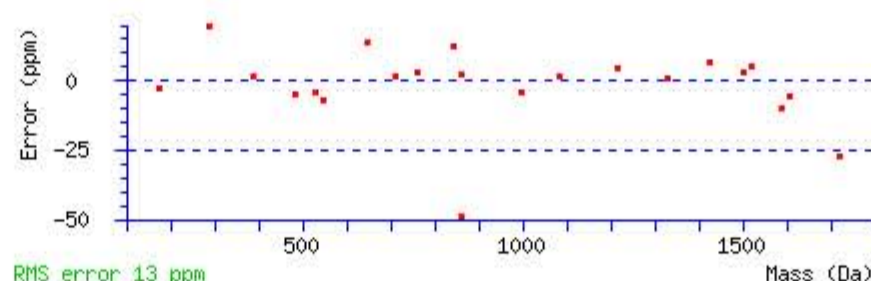
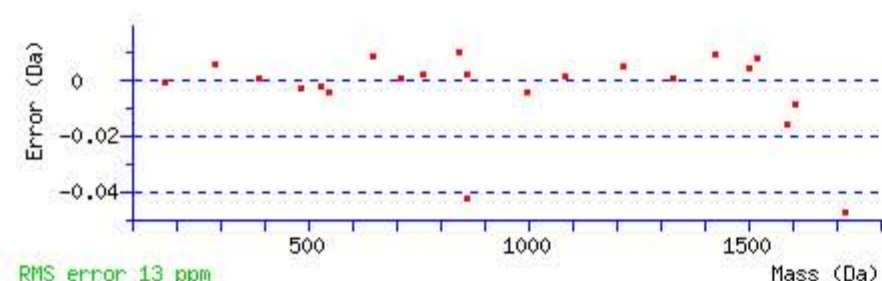
Variable modifications:

Q14 : Biotin:Thermo-21345 (Q)

Ions Score: 84 Expect: 1.7e-008

Matches : 22/202 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							19
2	217.081897	109.044586			199.071332	100.039304	E	2295.110779	1148.059027	2278.084230	1139.545753	2277.100214	1139.053745	18
3	274.103361	137.555319			256.092796	128.550036	G	2166.068186	1083.537731	2149.041637	1075.024456	2148.057621	1074.532448	17
4	361.135389	181.071332			343.124824	172.066050	S	2109.046722	1055.026999	2092.020173	1046.513724	2091.036157	1046.021716	16
5	448.167417	224.587346			430.156852	215.582064	S	2022.014694	1011.510985	2004.988145	1002.997711	2004.004129	1002.505703	15
6	<b>547.235831</b>	274.121554			<b>529.225266</b>	265.116271	V	1934.982666	967.994971	1917.956117	959.481697	1916.972101	958.989689	14
7	661.278758	331.143017	644.252209	322.629742	643.268193	322.137734	N	1835.914252	918.460764	1818.887703	909.947490	1817.903687	909.455482	13
8	774.362822	387.685049	757.336273	379.171774	756.352257	378.679766	L	<b>1721.871325</b>	<b>861.439301</b>	1704.844776	852.926026	1703.860760	852.434018	12
9	<b>861.394850</b>	431.201063	844.368301	422.687788	<b>843.384285</b>	422.195780	S	<b>1608.787261</b>	804.897269	1591.760712	796.383994	<b>1590.776696</b>	795.891986	11
10	958.447614	479.727445	941.421065	471.214170	940.437049	470.722162	P	<b>1521.755233</b>	<b>761.381255</b>	1504.728684	752.867980	<b>1503.744668</b>	752.375972	10
11	1055.500378	528.253827	1038.473829	519.740553	1037.489813	519.248544	P	<b>1424.702469</b>	<b>712.854873</b>	1407.675920	704.341598	1406.691904	703.849590	9
12	1168.584442	584.795859	1151.557893	576.282584	1150.573877	575.790576	L	<b>1327.649705</b>	664.328491	1310.623156	655.815216	1309.639140	655.323208	8
13	1297.627035	649.317155	1280.600486	640.803881	1279.616470	640.311873	E	<b>1214.565641</b>	607.786459	1197.539092	599.273184	1196.555076	598.781176	7
14	1736.852361	868.929819	1719.825812	860.416544	1718.841796	859.924536	Q	<b>1085.523048</b>	543.265162	1068.496499	534.751888	1067.512483	534.259880	6
15	1896.883010	948.945143	1879.856461	940.431869	1878.872445	939.939861	C	<b>646.297722</b>	323.652499	629.271173	315.139225	628.287157	314.647217	5
16	1995.951424	<b>998.479350</b>	1978.924875	989.966076	1977.940859	989.474068	V	<b>486.267073</b>	243.637174	469.240524	235.123900	468.256508	234.631892	4
17	2093.004188	1047.005732	2075.977639	1038.492457	2074.993623	1038.000449	P	<b>387.198659</b>	194.102967	370.172110	185.589693	369.188094	185.097685	3
18	2208.031131	1104.519203	2191.004582	1096.005929	2190.020566	1095.513921	D	<b>290.145895</b>	145.576585	273.119346	137.063311	272.135330	136.571303	2
19							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [SEGSSVNLSPPLEQCVDR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
84.1	2381.135529	0.005043	<a href="#">SEGSSVNLSPPLEQCVDR</a>
1.2	2381.158005	-0.017433	<a href="#">HPKPSTVKDCPTLCKQTDNR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GQPSVLQVVNLPIVERPVCK**

Found in **THRB\_HUMAN**, Prothrombin OS=Homo sapiens GN=F2 PE=1 SV=2

Match to Query 48982: 2542.420992 from(848.480940,3+) rtinseconds(2516) index(48939)

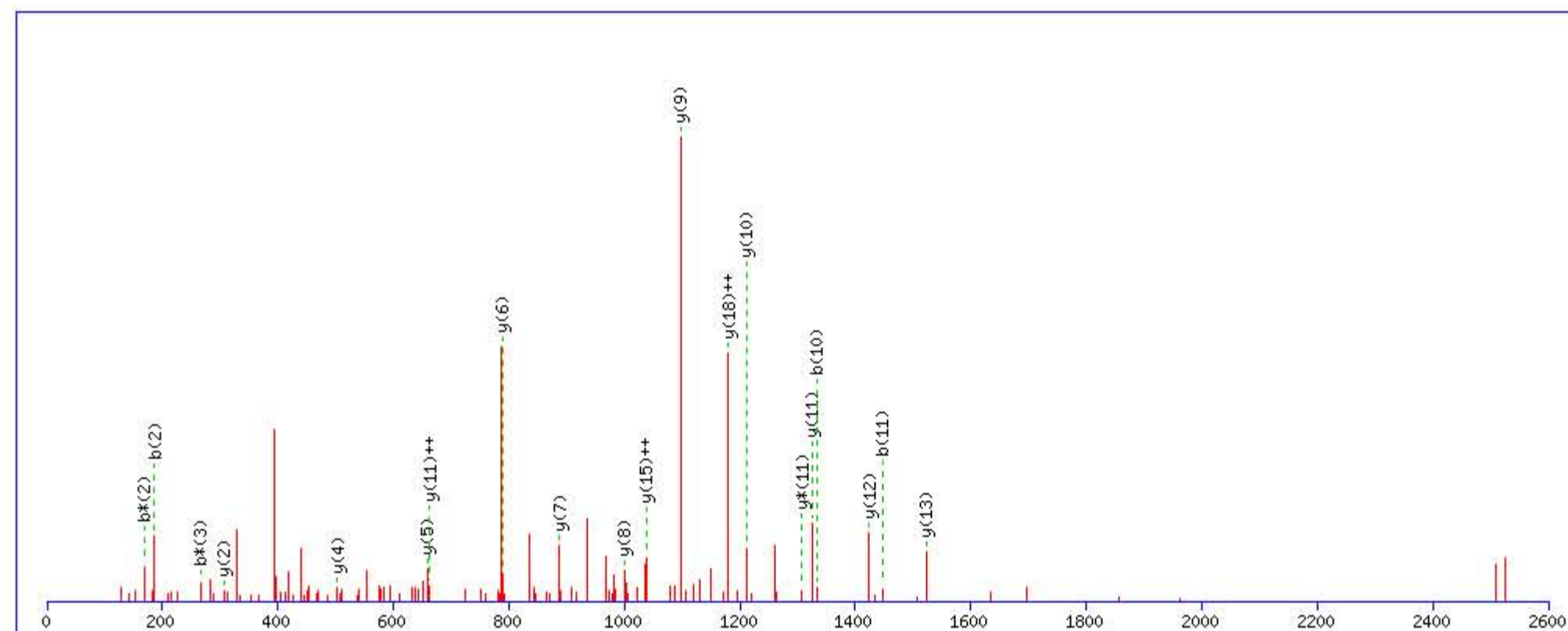
Title: Locus:1.1.1.3588.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2542.412766

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

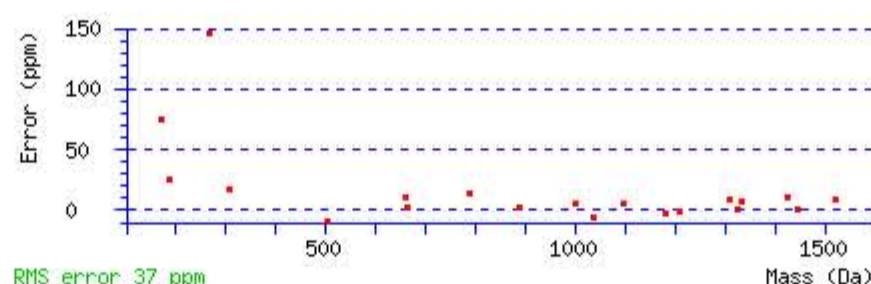
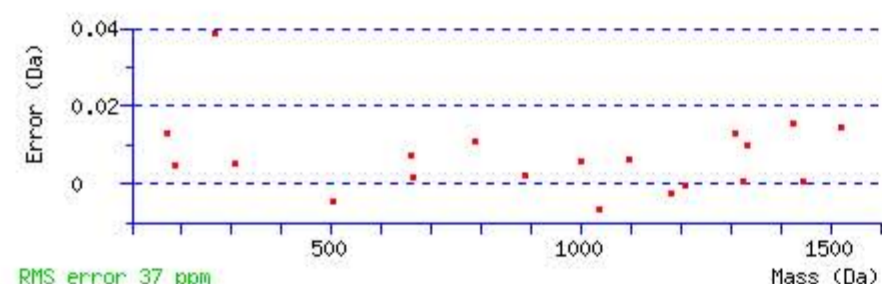
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 51 Expect: 6.8e-005

Matches : 20/210 fragment ions using 48 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							20
2	<b>186.087318</b>	93.547297	<b>169.060769</b>	85.034023			Q	2486.398570	1243.702923	2469.372021	1235.189648	2468.388005	1234.697640	19
3	283.140082	142.073679	<b>266.113533</b>	133.560405			P	2358.339992	<b>1179.673634</b>	2341.313443	1171.160359	2340.329427	1170.668351	18
4	370.172110	185.589693	353.145561	177.076419	352.161545	176.584411	S	2261.287228	1131.147252	2244.260679	1122.633977	2243.276663	1122.141969	17
5	469.240524	235.123900	452.213975	226.610626	451.229959	226.118618	V	2174.255200	1087.631238	2157.228651	1079.117963	2156.244635	1078.625955	16
6	582.324588	291.665932	565.298039	283.152658	564.314023	282.660650	L	2075.186786	<b>1038.097031</b>	2058.160237	1029.583756	2057.176221	1029.091748	15
7	1021.549914	511.278595	1004.523365	502.765321	1003.539349	502.273313	Q	1962.102722	981.554999	1945.076173	973.041724	1944.092157	972.549716	14
8	1120.618328	560.812802	1103.591779	552.299528	1102.607763	551.807520	V	<b>1522.877396</b>	761.942336	1505.850847	753.429061	1504.866831	752.937053	13
9	1219.686742	610.347009	1202.660193	601.833735	1201.676177	601.341727	V	<b>1423.808982</b>	712.408129	1406.782433	703.894854	1405.798417	703.402846	12
10	<b>1333.729669</b>	667.368473	1316.703120	658.855198	1315.719104	658.363190	N	<b>1324.740568</b>	<b>662.873922</b>	<b>1307.714019</b>	654.360647	1306.730003	653.868639	11
11	<b>1446.813733</b>	723.910505	1429.787184	715.397230	1428.803168	714.905222	L	<b>1210.697641</b>	605.852458	1193.671092	597.339184	1192.687076	596.847176	10
12	1543.866497	772.436887	1526.839948	763.923612	1525.855932	763.431604	P	<b>1097.613577</b>	549.310426	1080.587028	540.797152	1079.603012	540.305144	9
13	1656.950561	828.978918	1639.924012	820.465644	1638.939996	819.973636	I	<b>1000.560813</b>	500.784044	983.534264	492.270770	982.550248	491.778762	8
14	1756.018975	878.513126	1738.992426	869.999851	1738.008410	869.507843	V	<b>887.476749</b>	444.242012	870.450200	435.728738	869.466184	435.236730	7
15	1885.061568	943.034422	1868.035019	934.521147	1867.051003	934.029139	E	<b>788.408335</b>	394.707805	771.381786	386.194531	770.397770	385.702523	6
16	2041.162679	1021.084977	2024.136130	1012.571703	2023.152114	1012.079695	R	<b>659.365742</b>	330.186509	642.339193	321.673234			5
17	2138.215443	1069.611359	2121.188894	1061.098085	2120.204878	1060.606077	P	<b>503.264631</b>	252.135953	486.238082	243.622679			4
18	2237.283857	1119.145566	2220.257308	1110.632292	2219.273292	1110.140284	V	406.211867	203.609571	389.185318	195.096297			3
19	2397.314506	1199.160891	2380.287957	1190.647616	2379.303941	1190.155608	C	<b>307.143453</b>	154.075364	290.116904	145.562090			2
20							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **GQPSVLQVVNLPIVERPVCK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
51.0	2542.412766	0.008226	<a href="#">GQPSVLQVVNLPIVERPVCK</a>
41.4	2542.412766	0.008226	<a href="#">GQPSVLQVVNLPIVERPVCK</a>

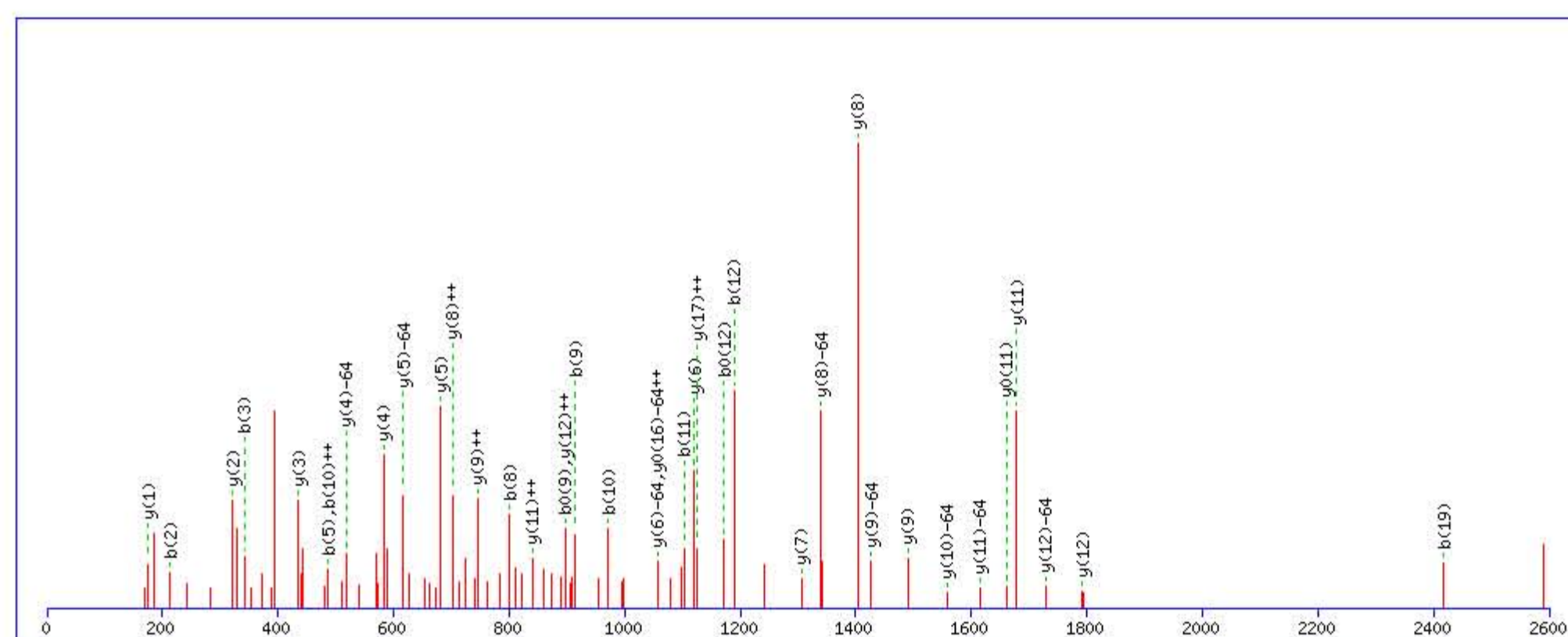
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **IVEGSDAEIGMSPWQVMLFR**  
 Found in **THRB\_HUMAN**, Prothrombin OS=Homo sapiens GN=F2 PE=1 SV=2

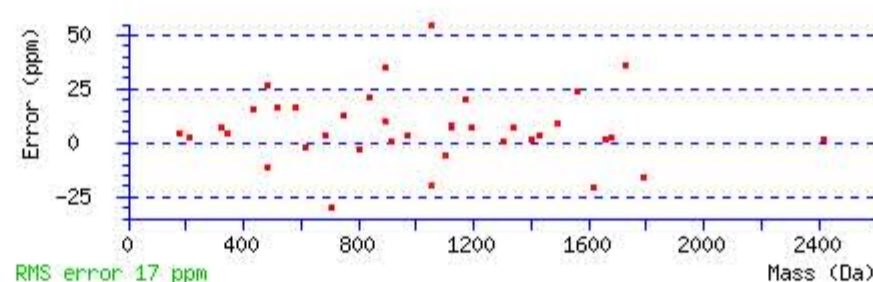
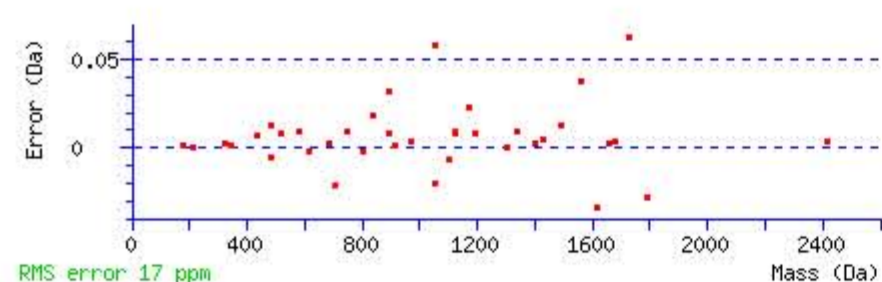
Match to Query 49434: 2591.271192 from(864.764340,3+) rtinseconds(2876) index(51385)  
 Title: Locus:1.1.1.3711.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2591.258621  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q15 : Biotin:Thermo-21345 (Q)  
 M17 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285  
 Ions Score: 81 Expect: 2.3e-007  
 Matches : 38/284 fragment ions using 48 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							20
2	<b>213.159754</b>	107.083515					V	2479.181837	1240.094556	2462.155288	1231.581282	2461.171272	1231.089274	19
3	<b>342.202347</b>	171.604811			324.191782	162.599529	E	2380.113423	1190.560349	2363.086874	1182.047075	2362.102858	1181.555067	18
4	399.223811	200.115543			381.213246	191.110261	G	2251.070830	<b>1126.039053</b>	2234.044281	1117.525778	2233.060265	1117.033770	17
5	<b>486.255839</b>	243.631557			468.245274	234.626275	S	2194.049366	1097.528321	2177.022817	1089.015046	2176.038801	1088.523038	16
6	601.282782	301.145029			583.272217	292.139747	D	2107.017338	1054.012307	2089.990789	1045.499032	2089.006773	1045.007024	15
7	672.319896	336.663586			654.309331	327.658303	A	1991.990395	996.498836	1974.963846	987.985561	1973.979830	987.493553	14
8	<b>801.362489</b>	401.184883			783.351924	392.179600	E	1920.953281	960.980279	1903.926732	952.467004	1902.942716	951.974996	13
9	<b>914.446553</b>	457.726915			<b>896.435988</b>	448.721632	I	<b>1791.910688</b>	<b>896.458982</b>	1774.884139	887.945708	1773.900123	887.453700	12
10	<b>971.468017</b>	<b>486.237647</b>			953.457452	477.232364	G	<b>1678.826624</b>	<b>839.916950</b>	1661.800075	831.403676	<b>1660.816059</b>	830.911668	11
11	<b>1102.508502</b>	551.757889			1084.497937	542.752606	M	1621.805160	811.406218	1604.778611	802.892944	1603.794595	802.400936	10
12	<b>1189.540530</b>	595.273903			<b>1171.529965</b>	586.268621	S	<b>1490.764675</b>	<b>745.885976</b>	1473.738126	737.372701	1472.754110	736.880693	9
13	1286.593294	643.800285			1268.582729	634.795003	P	<b>1403.732647</b>	<b>702.369962</b>	1386.706098	693.856687			8
14	1472.672607	736.839942			1454.662042	727.834659	W	<b>1306.679883</b>	653.843580	1289.653334	645.330305			7
15	1911.897933	956.452605	1894.871384	947.939330	1893.887368	947.447322	Q	<b>1120.600570</b>	560.803923	1103.574021	552.290649			6
16	2010.966347	1005.986812	1993.939798	997.473537	1992.955782	996.981529	V	<b>681.375244</b>	341.191260	664.348695	332.677986			5
17	2158.001747	1079.504511	2140.975198	1070.991237	2139.991182	1070.499229	M	<b>582.306830</b>	291.657053	565.280281	283.143779			4
18	2271.085811	1136.046543	2254.059262	1127.533269	2253.075246	1127.041261	L	<b>435.271430</b>	218.139353	418.244881	209.626078			3
19	<b>2418.154225</b>	1209.580750	2401.127676	1201.067476	2400.143660	1200.575468	F	<b>322.187366</b>	161.597321	305.160817	153.084046			2
20							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **IVEGSDAEIGMSPWQVMLFR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
80.7	2591.258621	0.012571	<a href="#">IVEGSDAEIGMSPWQVMLFR</a>
16.4	2591.258621	0.012571	<a href="#">IVEGSDAEIGMSPWQVMLFR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **RQECSIPVCGQDQVTVAMTPR**

Found in **THRB\_HUMAN**, Prothrombin OS=Homo sapiens GN=F2 PE=1 SV=2

Match to Query 50843: 2742.306642 from(915.109490,3+) rtinseconds(2048) index(46328)

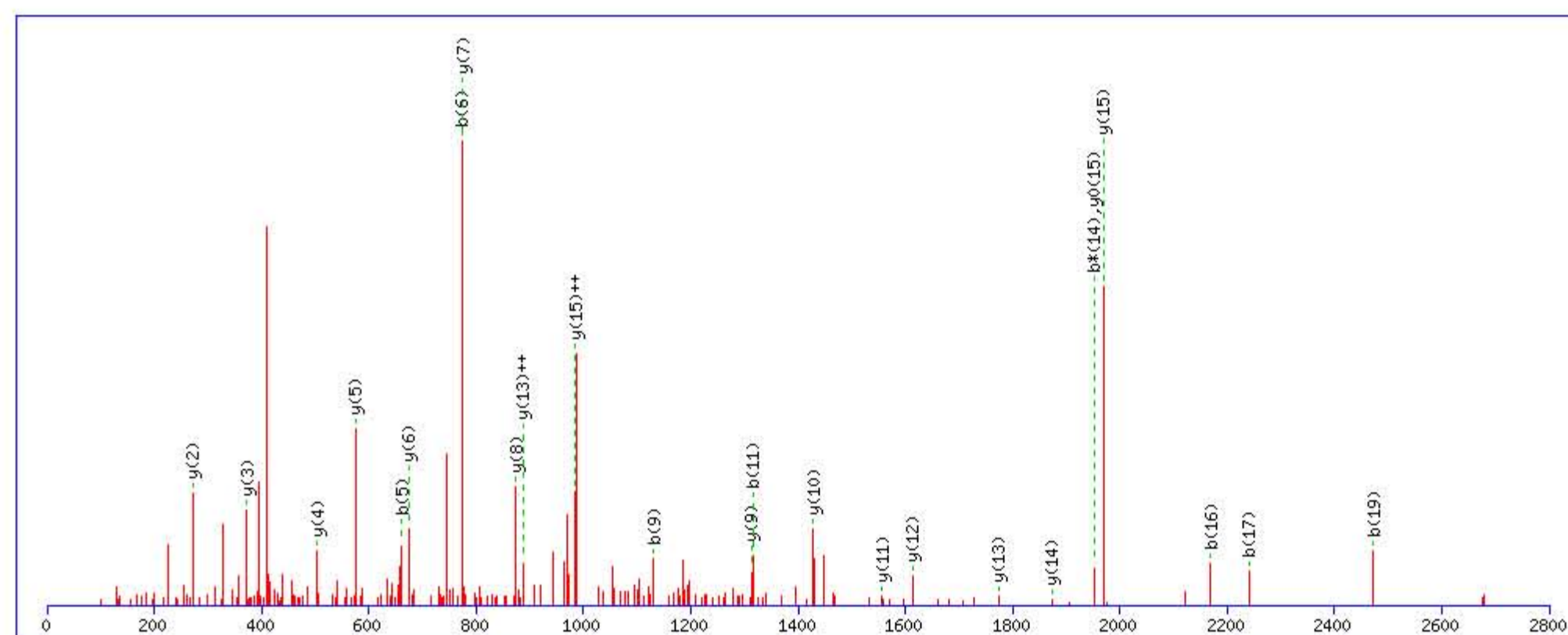
Title: Locus:1.1.1.3425.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2742.307404

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

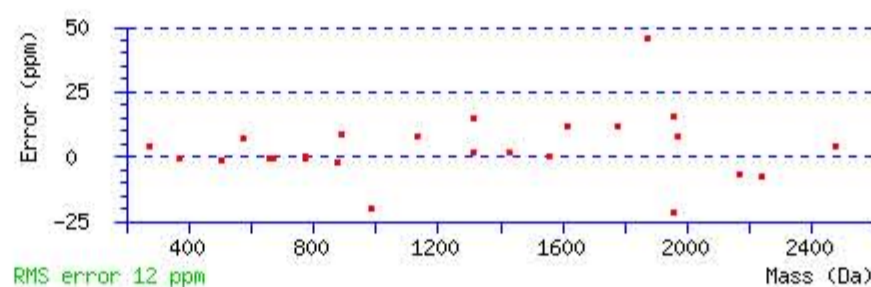
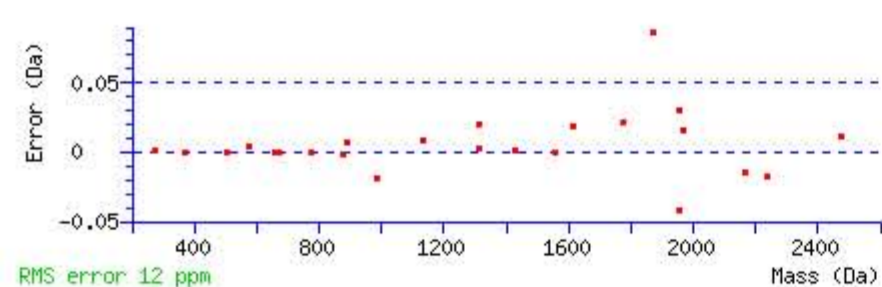
Variable modifications:

Q13 : Biotin:Thermo-21345 (Q)

Ions Score: 85 Expect: 6.6e-008

Matches : 25/232 fragment ions using 44 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	157.108387	79.057831	140.081838	70.544557			R							21
2	285.166965	143.087121	268.140416	134.573846			Q	2587.213551	1294.110413	2570.187002	1285.597139	2569.202986	1285.105131	20
3	414.209558	207.608417	397.183009	199.095143	396.198993	198.603135	E	2459.154973	1230.081124	2442.128424	1221.567850	2441.144408	1221.075842	19
4	574.240207	287.623742	557.213658	279.110467	556.229642	278.618459	C	2330.112380	1165.559828	2313.085831	1157.046553	2312.101815	1156.554545	18
5	<b>661.272235</b>	331.139756	644.245686	322.626481	643.261670	322.134473	S	2170.081731	1085.544503	2153.055182	1077.031229	2152.071166	1076.539221	17
6	<b>774.356299</b>	387.681788	757.329750	379.168513	756.345734	378.676505	I	2083.049703	1042.028489	2066.023154	1033.515215	2065.039138	1033.023207	16
7	871.409063	436.208170	854.382514	427.694895	853.398498	427.202887	P	<b>1969.965639</b>	<b>985.486458</b>	1952.939090	976.973183	<b>1951.955074</b>	976.481175	15
8	970.477477	485.742377	953.450928	477.229102	952.466912	476.737094	V	<b>1872.912875</b>	936.960076	1855.886326	928.446801	1854.902310	927.954793	14
9	<b>1130.508126</b>	565.757701	1113.481577	557.244427	1112.497561	556.752418	C	<b>1773.844461</b>	<b>887.425868</b>	1756.817912	878.912594	1755.833896	878.420586	13
10	1187.529590	594.268433	1170.503041	585.755158	1169.519025	585.263150	G	<b>1613.813812</b>	807.410544	1596.787263	798.897270	1595.803247	798.405262	12
11	<b>1315.588168</b>	658.297722	1298.561619	649.784448	1297.577603	649.292440	Q	<b>1556.792348</b>	778.899812	1539.765799	770.386538	1538.781783	769.894530	11
12	1430.615111	715.811194	1413.588562	707.297919	1412.604546	706.805911	D	<b>1428.733770</b>	714.870523	1411.707221	706.357249	1410.723205	705.865241	10
13	1869.840437	935.423857	1852.813888	926.910582	1851.829872	926.418574	Q	<b>1313.706827</b>	657.357052	1296.680278	648.843777	1295.696262	648.351769	9
14	1968.908851	984.958064	<b>1951.882302</b>	976.444789	1950.898286	975.952781	V	<b>874.481501</b>	437.744389	857.454952	429.231114	856.470936	428.739106	8
15	2069.956530	1035.481903	2052.929981	1026.968628	2051.945965	1026.476620	T	<b>775.413087</b>	388.210181	758.386538	379.696907	757.402522	379.204899	7
16	<b>2169.024944</b>	1085.016110	2151.998395	1076.502835	2151.014379	1076.010827	V	<b>674.365408</b>	337.686342	657.338859	329.173067	656.354843	328.681059	6
17	<b>2240.062058</b>	1120.534667	2223.035509	1112.021392	2222.051493	1111.529384	A	<b>575.296994</b>	288.152135	558.270445	279.638861	557.286429	279.146853	5
18	2371.102543	1186.054909	2354.075994	1177.541635	2353.091978	1177.049627	M	<b>504.259880</b>	252.633578	487.233331	244.120303	486.249315	243.628295	4
19	<b>2472.150222</b>	1236.578749	2455.123673	1228.065474	2454.139657	1227.573466	T	<b>373.219395</b>	187.113335	356.192846	178.600061	355.208830	178.108053	3
20	2569.202986	1285.105131	2552.176437	1276.591856	2551.192421	1276.099848	P	<b>272.171716</b>	136.589496	255.145167	128.076221			2
21							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **RQECSIPVCGQDQVTVAMTPR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
85.4	2742.307404	-0.000762	<a href="#">RQECSIPVCGQDQVTVAMTPR</a>
60.1	2742.307404	-0.000762	<a href="#">RQECSIPVCGQDQVTVAMTPR</a>
12.6	2742.307404	-0.000762	<a href="#">RQECSIPVCGQDQVTVAMTPR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **DMPASEDLQDLQK**

Found in **SEPP1\_HUMAN**, Selenoprotein P OS=Homo sapiens GN=SEPP1 PE=1 SV=3

Match to Query 36059: 1815.843102 from(606.288310,3+) rtinseconds(2085) index(5389)

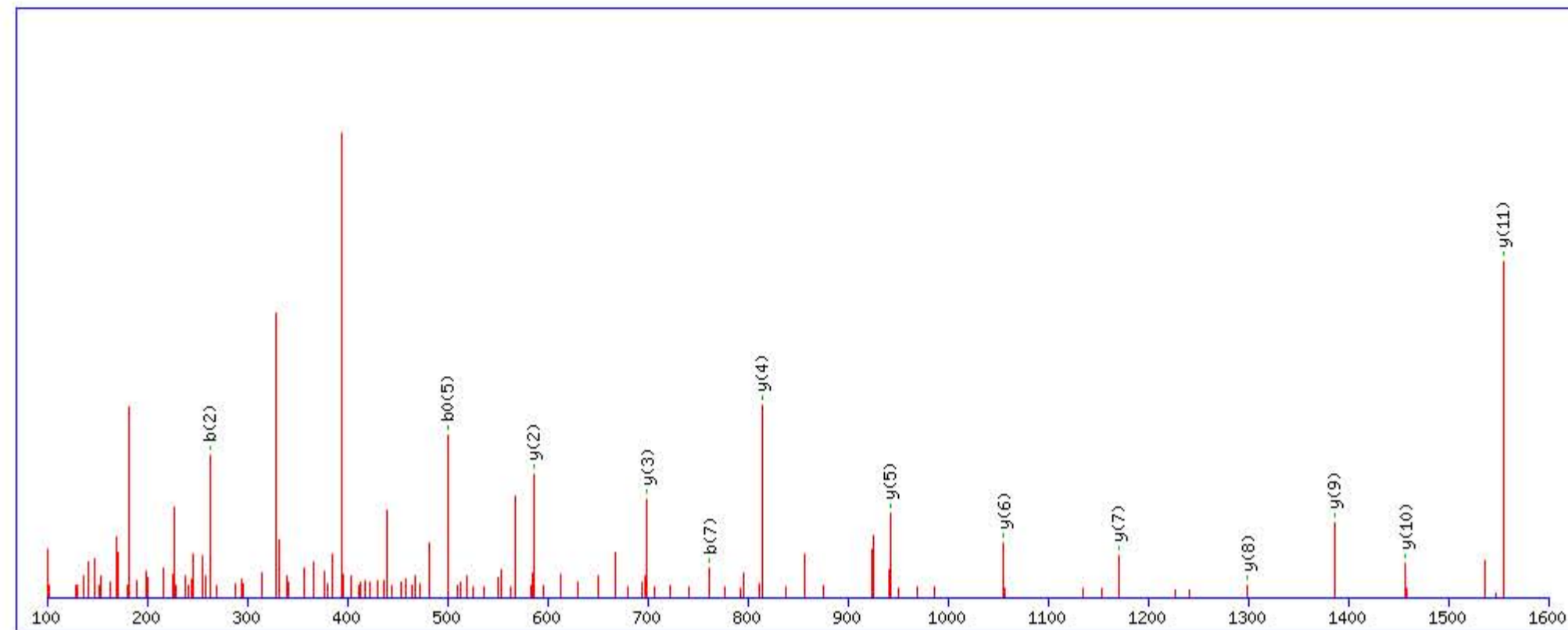
Title: Locus:1.1.1.3246.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1815.838272

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

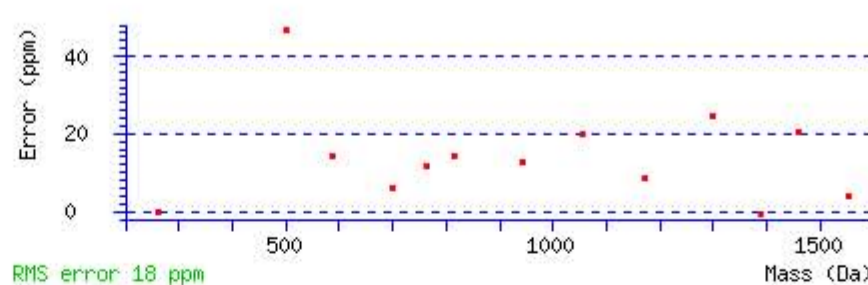
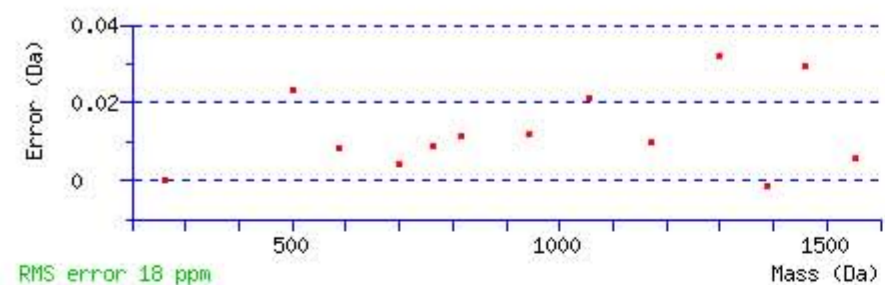
M2 : Oxidation (M), with neutral losses 0.000000 (shown in table), 63.998285

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 93 Expect: 7.3e-009

Matches : 13/180 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							13
2	<b>263.069619</b>	132.038447			245.059054	123.033165	M	1701.818621	851.412948	1684.792072	842.899674	1683.808056	842.407666	12
3	360.122383	180.564829			342.111818	171.559547	P	<b>1554.783221</b>	777.895248	1537.756672	769.381974	1536.772656	768.889966	11
4	431.159497	216.083386			413.148932	207.078104	A	<b>1457.730457</b>	729.368866	1440.703908	720.855592	1439.719892	720.363584	10
5	518.191525	259.599401			<b>500.180960</b>	250.594118	S	<b>1386.693343</b>	693.850310	1369.666794	685.337035	1368.682778	684.845027	9
6	647.234118	324.120697			629.223553	315.115414	E	<b>1299.661315</b>	650.334296	1282.634766	641.821021	1281.650750	641.329013	8
7	<b>762.261061</b>	381.634168			744.250496	372.628886	D	<b>1170.618722</b>	585.812999	1153.592173	577.299725	1152.608157	576.807716	7
8	875.345125	438.176200			857.334560	429.170918	L	<b>1055.591779</b>	528.299528	1038.565230	519.786253	1037.581214	519.294245	6
9	1003.403703	502.205490	986.377154	493.692215	985.393138	493.200207	Q	<b>942.507715</b>	471.757496	925.481166	463.244221	924.497150	462.752213	5
10	1118.430646	559.718961	1101.404097	551.205687	1100.420081	550.713679	D	<b>814.449137</b>	407.728207	797.422588	399.214932	796.438572	398.722924	4
11	1231.514710	616.260993	1214.488161	607.747719	1213.504145	607.255710	L	<b>699.422194</b>	350.214735	682.395645	341.701461			3
12	1670.740036	835.873656	1653.713487	827.360382	1652.729471	826.868373	Q	<b>586.338130</b>	293.672703	569.311581	285.159429			2
13							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **DMPASEDLQDLQK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
92.5	1815.838272	0.004830	<a href="#">DMPASEDLQDLQK</a>
44.6	1815.838272	0.004830	<a href="#">DMPASEDLQDLQK</a>

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



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **HQTVPQNTGGK**

Found in **TRFE\_HUMAN**, Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3

Match to Query 26562: 1476.747612 from(493.256480,3+) rtinseconds(1240) index(56652)

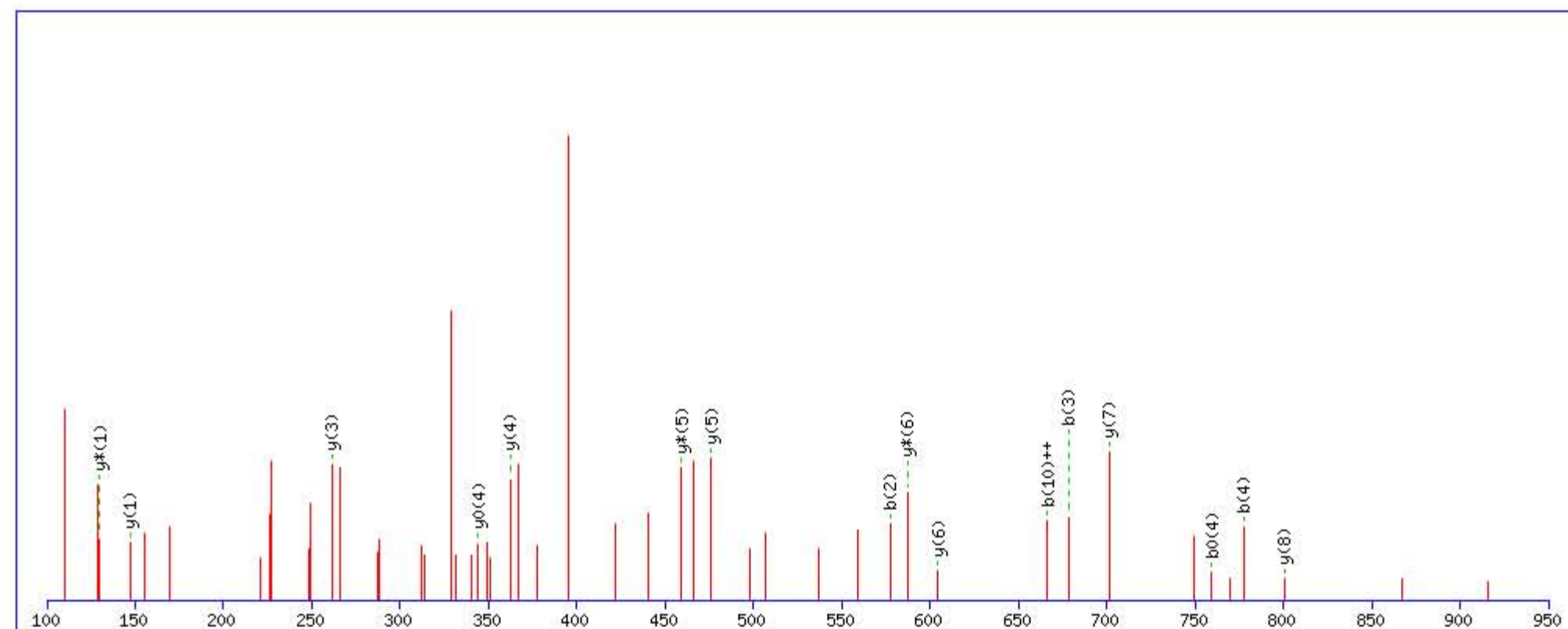
Title: Locus:1.1.1.1343.5 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1476.750748

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

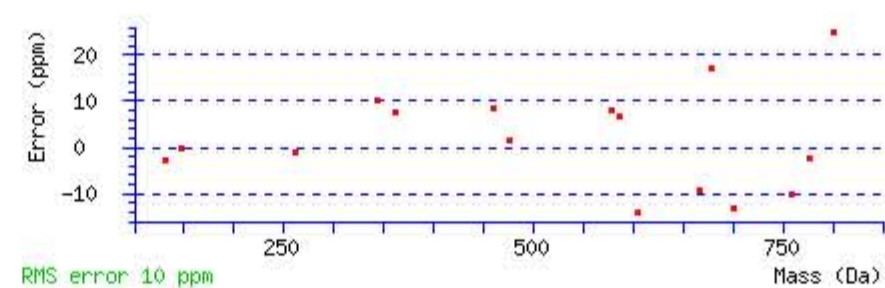
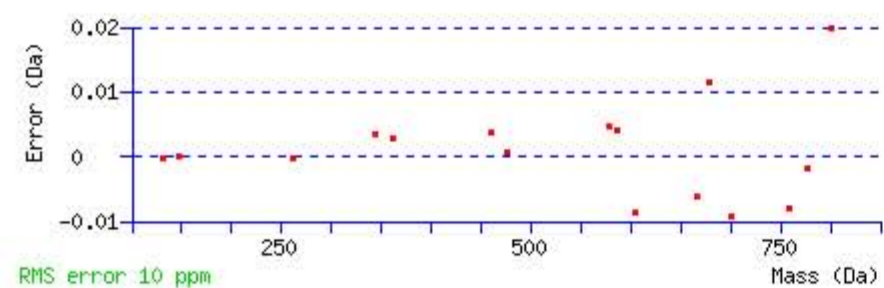
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.0089

Matches : 16/108 fragment ions using 39 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							11
2	<b>577.291514</b>	289.149395	560.264965	280.636121			Q	1340.699099	670.853187	1323.672550	662.339913	1322.688534	661.847905	10
3	<b>678.339193</b>	339.673235	661.312644	331.159960	660.328628	330.667952	T	901.473773	451.240524	884.447224	442.727250	883.463208	442.235242	9
4	<b>777.407607</b>	389.207442	760.381058	380.694167	<b>759.397042</b>	380.202159	V	<b>800.426094</b>	400.716685	783.399545	392.203410	782.415529	391.711402	8
5	874.460371	437.733824	857.433822	429.220549	856.449806	428.728541	P	<b>701.357680</b>	351.182478	684.331131	342.669203	683.347115	342.177195	7
6	1002.518949	501.763113	985.492400	493.249838	984.508384	492.757830	Q	<b>604.304916</b>	302.656096	<b>587.278367</b>	294.142821	586.294351	293.650813	6
7	1116.561876	558.784576	1099.535327	550.271302	1098.551311	549.779293	N	<b>476.246338</b>	238.626807	<b>459.219789</b>	230.113532	458.235773	229.621524	5
8	1217.609555	609.308416	1200.583006	600.795141	1199.598990	600.303133	T	<b>362.203411</b>	181.605343	345.176862	173.092069	<b>344.192846</b>	172.600061	4
9	1274.631019	637.819147	1257.604470	629.305873	1256.620454	628.813865	G	<b>261.155732</b>	131.081504	244.129183	122.568229			3
10	1331.652483	<b>666.329879</b>	1314.625934	657.816605	1313.641918	657.324597	G	204.134268	102.570772	187.107719	94.057497			2
11							K	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of [HQTVPQNTGGK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
26.5	1476.750748	-0.003136	<a href="#">HQTVPQNTGGK</a>
16.3	1476.750748	-0.003136	<a href="#">HQTVPQNTGGK</a>
4.6	1476.736115	0.011497	<a href="#">HQEALIGQSFYQK</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **HQTVPQNTGGK**

Found in **TRFE\_HUMAN**, Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3

Match to Query 26564: 1476.748692 from(493.256840,3+) rtinseconds(1222) index(56607)

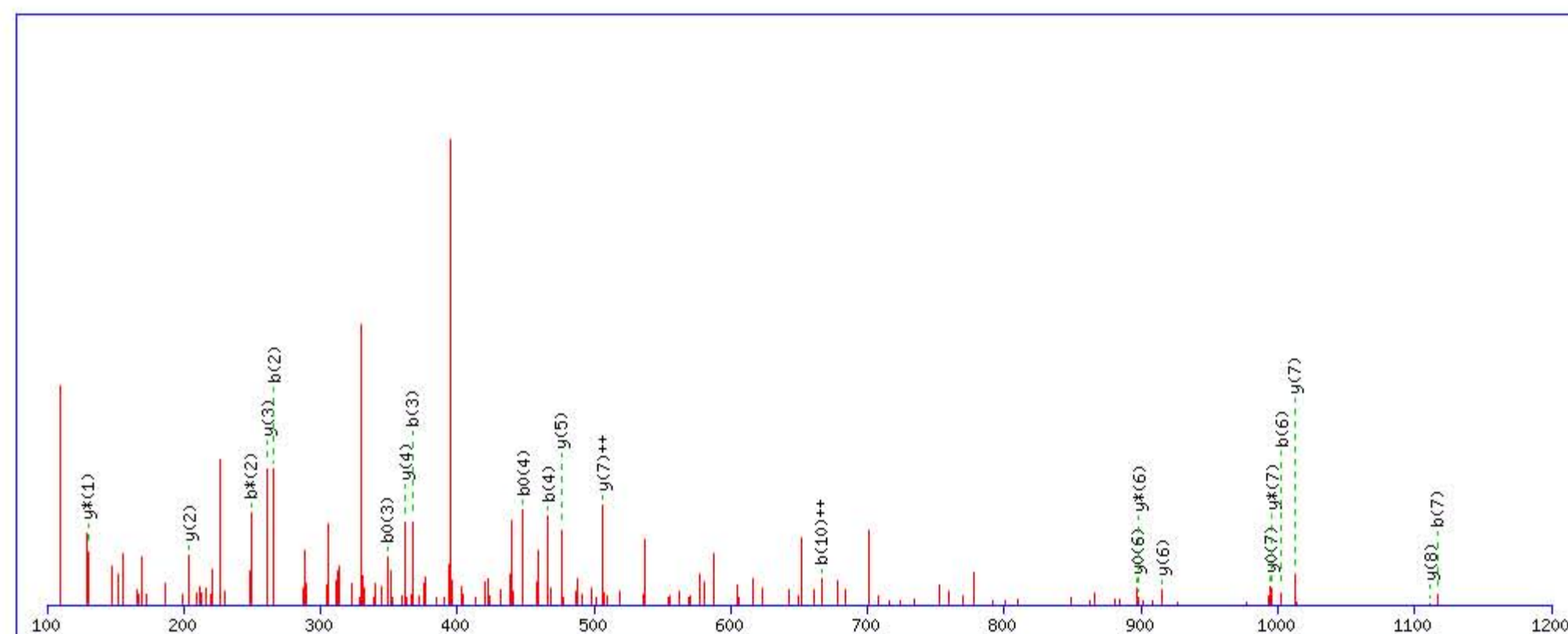
Title: Locus:1.1.1.1337.3 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1476.750748

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

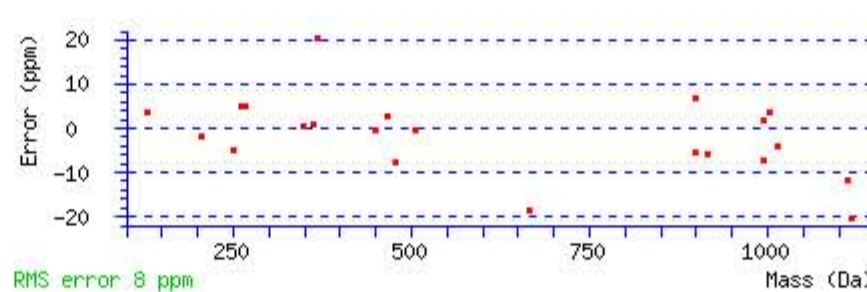
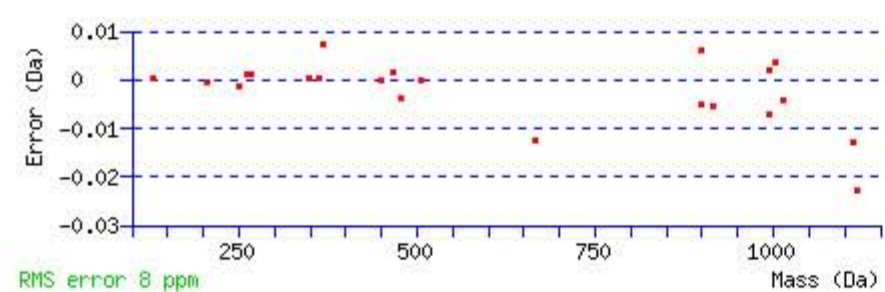
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 25 Expect: 0.015

Matches : 22/108 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							11
2	<b>266.124766</b>	133.566021	<b>249.098217</b>	125.052746			Q	1340.699099	670.853187	1323.672550	662.339913	1322.688534	661.847905	10
3	<b>367.172445</b>	184.089860	350.145896	175.576586	<b>349.161880</b>	175.084578	T	1212.640521	606.823899	1195.613972	598.310624	1194.629956	597.818616	9
4	<b>466.240859</b>	233.624068	449.214310	225.110793	<b>448.230294</b>	224.618785	V	<b>1111.592842</b>	556.300059	1094.566293	547.786784	1093.582277	547.294776	8
5	563.293623	282.150450	546.267074	273.637175	545.283058	273.145167	P	<b>1012.524428</b>	<b>506.765852</b>	<b>995.497879</b>	498.252577	<b>994.513863</b>	497.760569	7
6	<b>1002.518949</b>	501.763113	985.492400	493.249838	984.508384	492.757830	Q	<b>915.471664</b>	458.239470	<b>898.445115</b>	449.726195	<b>897.461099</b>	449.234187	6
7	<b>1116.561876</b>	558.784576	1099.535327	550.271302	1098.551311	549.779293	N	<b>476.246338</b>	238.626807	459.219789	230.113532	458.235773	229.621524	5
8	1217.609555	609.308416	1200.583006	600.795141	1199.598990	600.303133	T	<b>362.203411</b>	181.605343	345.176862	173.092069	344.192846	172.600061	4
9	1274.631019	637.819147	1257.604470	629.305873	1256.620454	628.813865	G	<b>261.155732</b>	131.081504	244.129183	122.568229			3
10	1331.652483	<b>666.329879</b>	1314.625934	657.816605	1313.641918	657.324597	G	<b>204.134268</b>	102.570772	187.107719	94.057497			2
11							K	147.112804	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **HQTVPQNTGGK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
25.1	1476.750748	-0.002056	<a href="#">HQTVPQNTGGK</a>
24.2	1476.750748	-0.002056	<a href="#">HQTVPQNTGGK</a>
5.7	1476.736115	0.012577	<a href="#">HQEALIGQSFY GK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **EFQLFSSPHGK**

Found in **TRFE\_HUMAN**, Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3

Match to Query 29990: 1586.792142 from(529.937990,3+) rtinseconds(2078) index(60999)

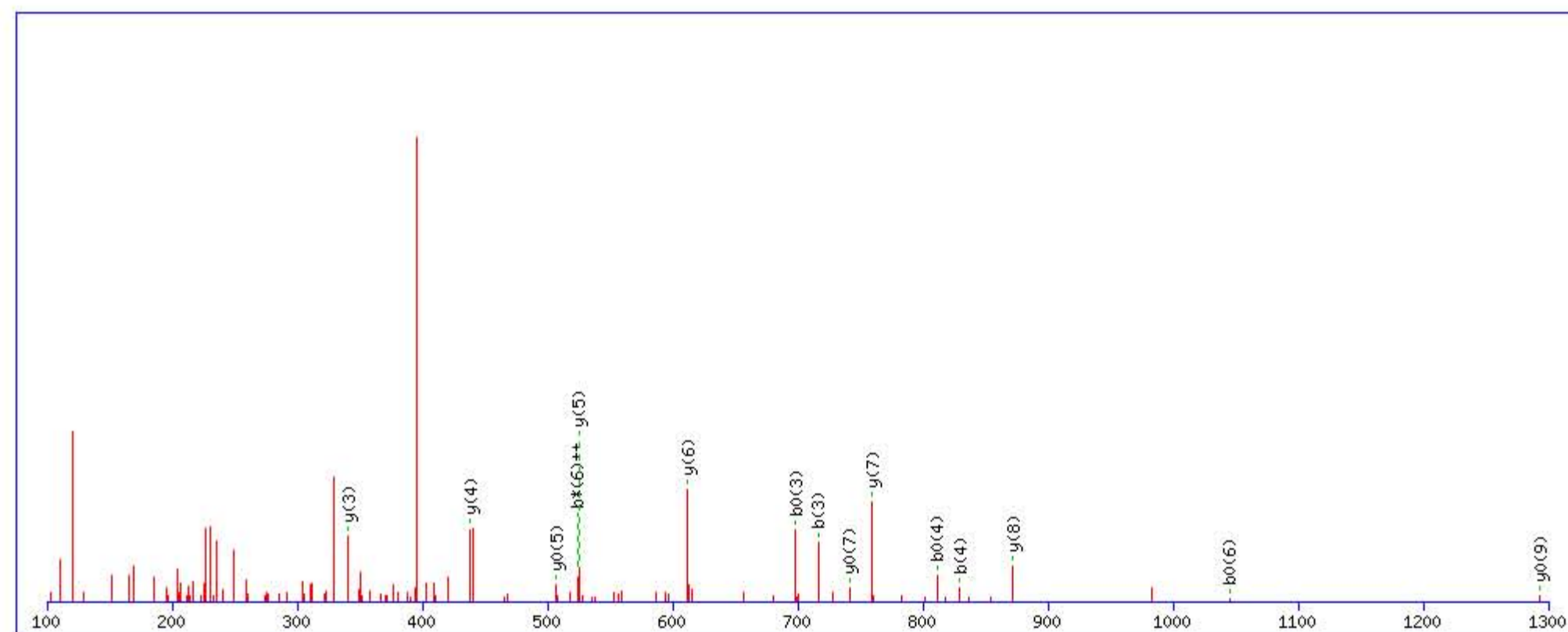
Title: Locus:1.1.1.1635.5 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1586.791534

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

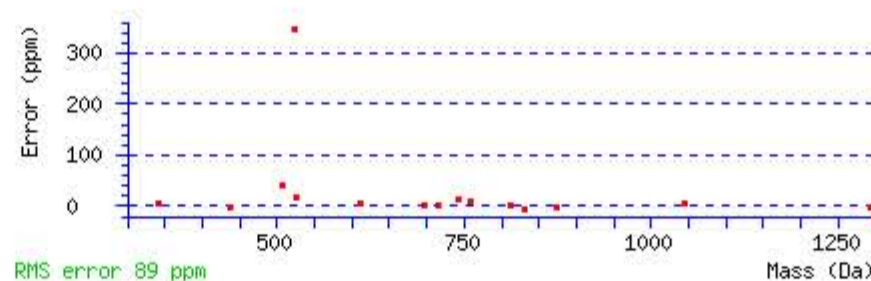
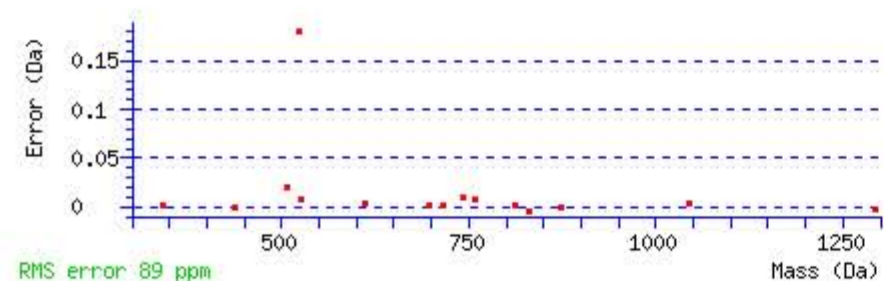
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.0036

Matches : 15/108 fragment ions using 27 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							11
2	277.118283	139.062779			259.107718	130.057497	F	1458.756218	729.881747	1441.729669	721.368473	1440.745653	720.876465	10
3	<b>716.343609</b>	358.675443	699.317060	350.162168	<b>698.333044</b>	349.670160	Q	1311.687804	656.347540	1294.661255	647.834266	<b>1293.677239</b>	647.342258	9
4	<b>829.427673</b>	415.217475	812.401124	406.704200	<b>811.417108</b>	406.212192	L	<b>872.462478</b>	436.734877	855.435929	428.221603	854.451913	427.729595	8
5	976.496087	488.751682	959.469538	480.238407	958.485522	479.746399	F	<b>759.378414</b>	380.192845	742.351865	371.679571	<b>741.367849</b>	371.187563	7
6	1063.528115	532.267696	1046.501566	<b>523.754421</b>	<b>1045.517550</b>	523.262413	S	<b>612.310000</b>	306.658638	595.283451	298.145364	594.299435	297.653356	6
7	1150.560143	575.783710	1133.533594	567.270435	1132.549578	566.778427	S	<b>525.277972</b>	263.142624	508.251423	254.629350	<b>507.267407</b>	254.137342	5
8	1247.612907	624.310092	1230.586358	615.796817	1229.602342	615.304809	P	<b>438.245944</b>	219.626610	421.219395	211.113335			4
9	1384.671819	692.839548	1367.645270	684.326273	1366.661254	683.834265	H	<b>341.193180</b>	171.100228	324.166631	162.586953			3
10	1441.693283	721.350280	1424.666734	712.837005	1423.682718	712.344997	G	204.134268	102.570772	187.107719	94.057497			2
11							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EFQLFSSPHGK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
28.0	1586.791534	0.000608	<a href="#">EFQLFSSPHGK</a>
1.9	1586.813980	-0.021838	<a href="#">FTQNHMLIYHKR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **KDSGFQMNQLR**

Found in **TRFE\_HUMAN**, Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3

Match to Query 32303: 1633.801062 from(545.607630,3+) rtinseconds(1868) index(59720)

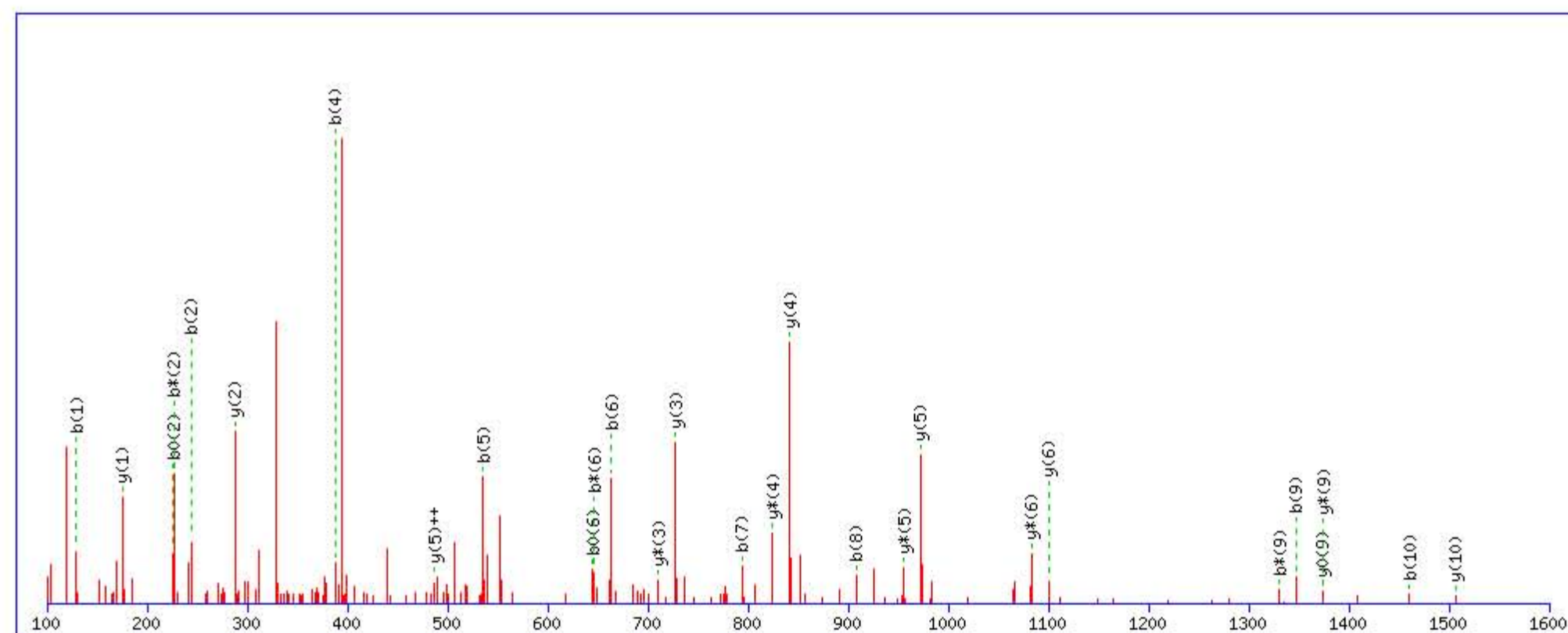
Title: Locus:1.1.1.1562.9 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1633.806854

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

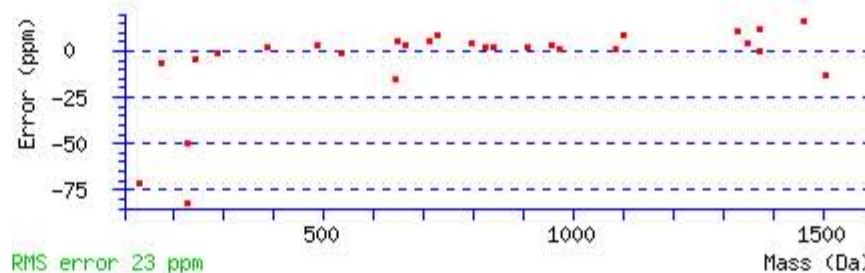
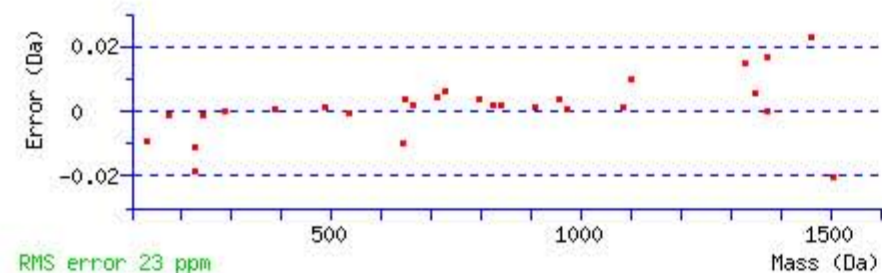
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 38 Expect: 0.001

Matches : 28/102 fragment ions using 65 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>129.102239</b>	65.054757	112.075690	56.541483			<b>K</b>							11
2	<b>244.129182</b>	122.568229	<b>227.102633</b>	114.054955	<b>226.118617</b>	113.562947	<b>D</b>	<b>1506.719181</b>	753.863228	1489.692632	745.349954	1488.708616	744.857946	10
3	331.161210	166.084243	314.134661	157.570969	313.150645	157.078961	<b>S</b>	1391.692238	696.349757	<b>1374.665689</b>	687.836482	<b>1373.681673</b>	687.344474	9
4	<b>388.182674</b>	194.594975	371.156125	186.081701	370.172109	185.589693	<b>G</b>	1304.660210	652.833743	1287.633661	644.320468			8
5	<b>535.251088</b>	268.129182	518.224539	259.615908	517.240523	259.123900	<b>F</b>	1247.638746	624.323011	1230.612197	615.809736			7
6	<b>663.309666</b>	332.158471	<b>646.283117</b>	323.645197	<b>645.299101</b>	323.153189	<b>Q</b>	<b>1100.570332</b>	550.788804	<b>1083.543783</b>	542.275530			6
7	<b>794.350151</b>	397.678714	777.323602	389.165439	776.339586	388.673431	<b>M</b>	<b>972.511754</b>	<b>486.759515</b>	<b>955.485205</b>	478.246240			5
8	<b>908.393078</b>	454.700177	891.366529	446.186903	890.382513	445.694895	<b>N</b>	<b>841.471269</b>	421.239272	<b>824.444720</b>	412.725998			4
9	<b>1347.618404</b>	674.312840	<b>1330.591855</b>	665.799566	1329.607839	665.307558	<b>Q</b>	<b>727.428342</b>	364.217809	<b>710.401793</b>	355.704534			3
10	<b>1460.702468</b>	730.854872	1443.675919	722.341598	1442.691903	721.849589	<b>L</b>	<b>288.203016</b>	144.605146	271.176467	136.091871			2
11							<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **KDSGFQMNQLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
38.0	1633.806854	-0.005792	<a href="#">KDSGFQMNQLR</a>
16.8	1633.806854	-0.005792	<a href="#">KDSGFQMNQLR</a>
5.7	1633.798096	0.002966	<a href="#">QDQEKDNMIEKLK</a>
2.4	1633.824615	-0.023553	<a href="#">AGGAFLMAGQVAEQLR</a>
2.3	1633.817184	-0.016122	<a href="#">HLHEGAKSASAEELR</a>
1.5	1633.809311	-0.008249	<a href="#">GLSEEERSEKAMLR</a>
1.5	1633.795609	0.005453	<a href="#">KFMEDEQQLR</a>
1.2	1633.799454	0.001608	<a href="#">DANSFKSRDQR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **KDSGFQMNQLR**

Found in **TRFE\_HUMAN**, Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3

Match to Query 32313: 1633.812748 from(817.913650,2+) rtinseconds(1769) index(59302)

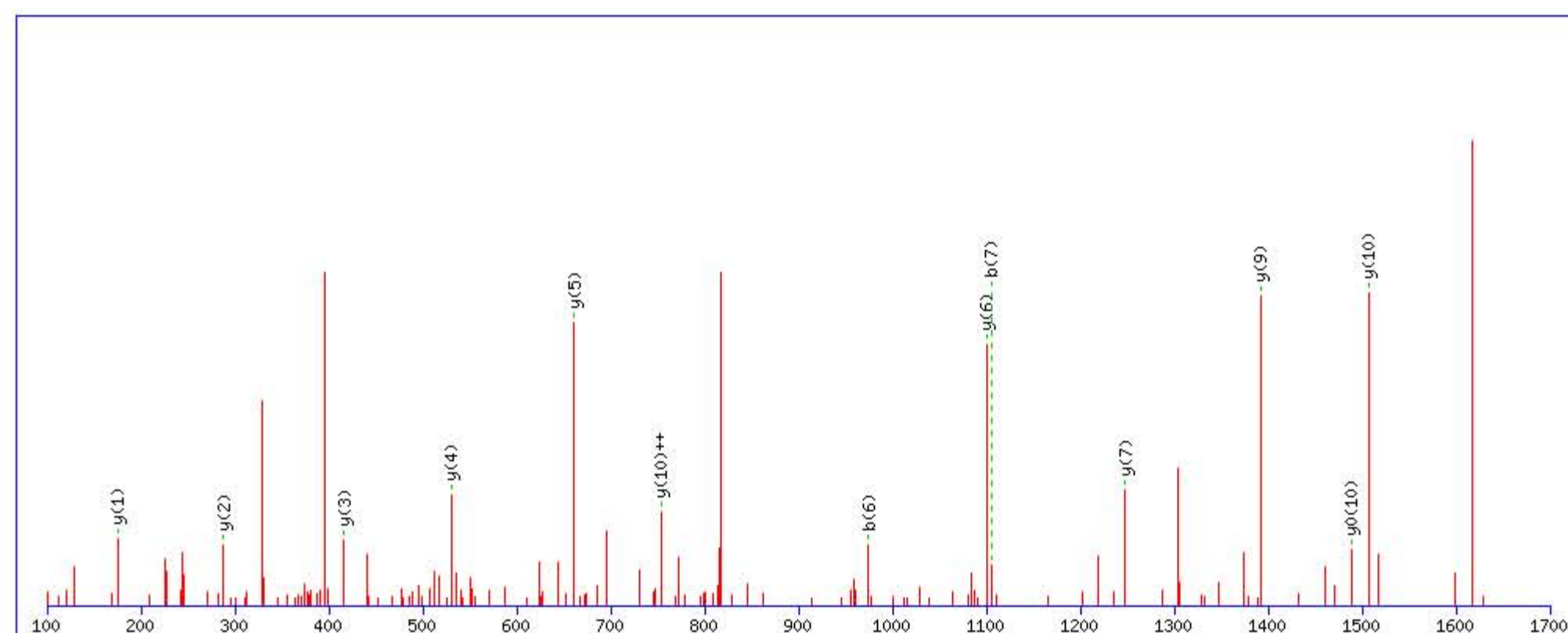
Title: Locus:1.1.1.1527.23 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1633.806854

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

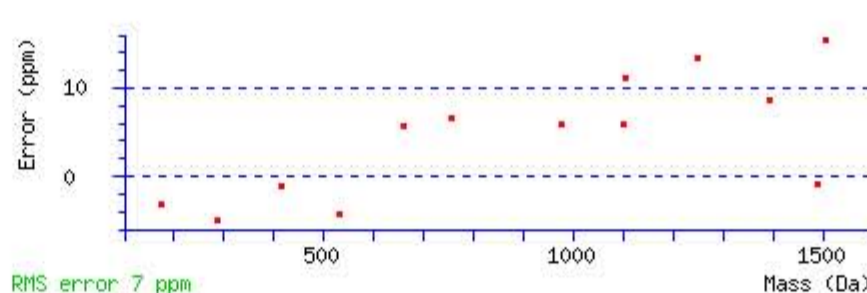
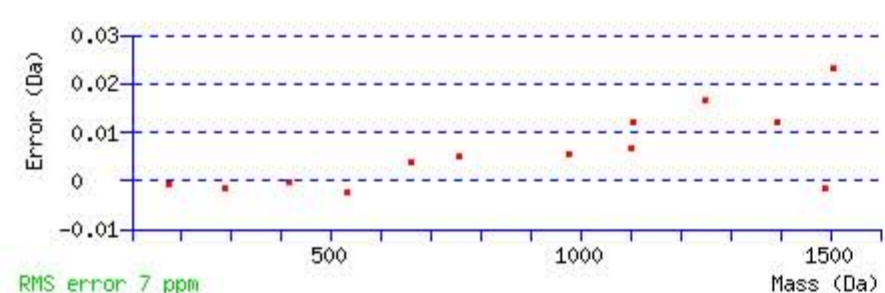
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 80 Expect: 2.2e-007

Matches : 13/102 fragment ions using 16 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.102239	65.054757	112.075690	56.541483			K							11
2	244.129182	122.568229	227.102633	114.054955	226.118617	113.562947	D	1506.719181	753.863228	1489.692632	745.349954	1488.708616	744.857946	10
3	331.161210	166.084243	314.134661	157.570969	313.150645	157.078961	S	1391.692238	696.349757	1374.665689	687.836482	1373.681673	687.344474	9
4	388.182674	194.594975	371.156125	186.081701	370.172109	185.589693	G	1304.660210	652.833743	1287.633661	644.320468			8
5	535.251088	268.129182	518.224539	259.615908	517.240523	259.123900	F	1247.638746	624.323011	1230.612197	615.809736			7
6	974.476414	487.741845	957.449865	479.228571	956.465849	478.736563	Q	1100.570332	550.788804	1083.543783	542.275530			6
7	1105.516899	553.262088	1088.490350	544.748813	1087.506334	544.256805	M	661.345006	331.176141	644.318457	322.662866			5
8	1219.559826	610.283551	1202.533277	601.770277	1201.549261	601.278268	N	530.304521	265.655899	513.277972	257.142624			4
9	1347.618404	674.312840	1330.591855	665.799566	1329.607839	665.307558	Q	416.261594	208.634435	399.235045	200.121160			3
10	1460.702468	730.854872	1443.675919	722.341598	1442.691903	721.849589	L	288.203016	144.605146	271.176467	136.091871			2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **KDSGFQMNQLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
80.2	1633.806854	0.005894	<a href="#">KDSGFQMNQLR</a>
32.6	1633.806854	0.005894	<a href="#">KDSGFQMNQLR</a>
12.6	1633.824615	-0.011867	<a href="#">AGGAFLMAGQVAEQLR</a>
10.6	1633.795609	0.017139	<a href="#">KFMEDEQQLR</a>
7.2	1633.798096	0.014652	<a href="#">QDQEKDNMIEKLK</a>
6.4	1633.832443	-0.019695	<a href="#">NRYINILAYDHSR</a>
6.3	1633.810669	0.002079	<a href="#">AGLENMDRAAQRFR</a>
4.8	1633.805954	0.006794	<a href="#">LFREENDINESIR</a>
4.7	1633.799454	0.013294	<a href="#">GPDNSMGFGAERKIR</a>
4.6	1633.824585	-0.011837	<a href="#">EQAARFCAEIKSPK</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **HQTVPQNTGGK**

Found in **TRFE\_HUMAN**, Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3

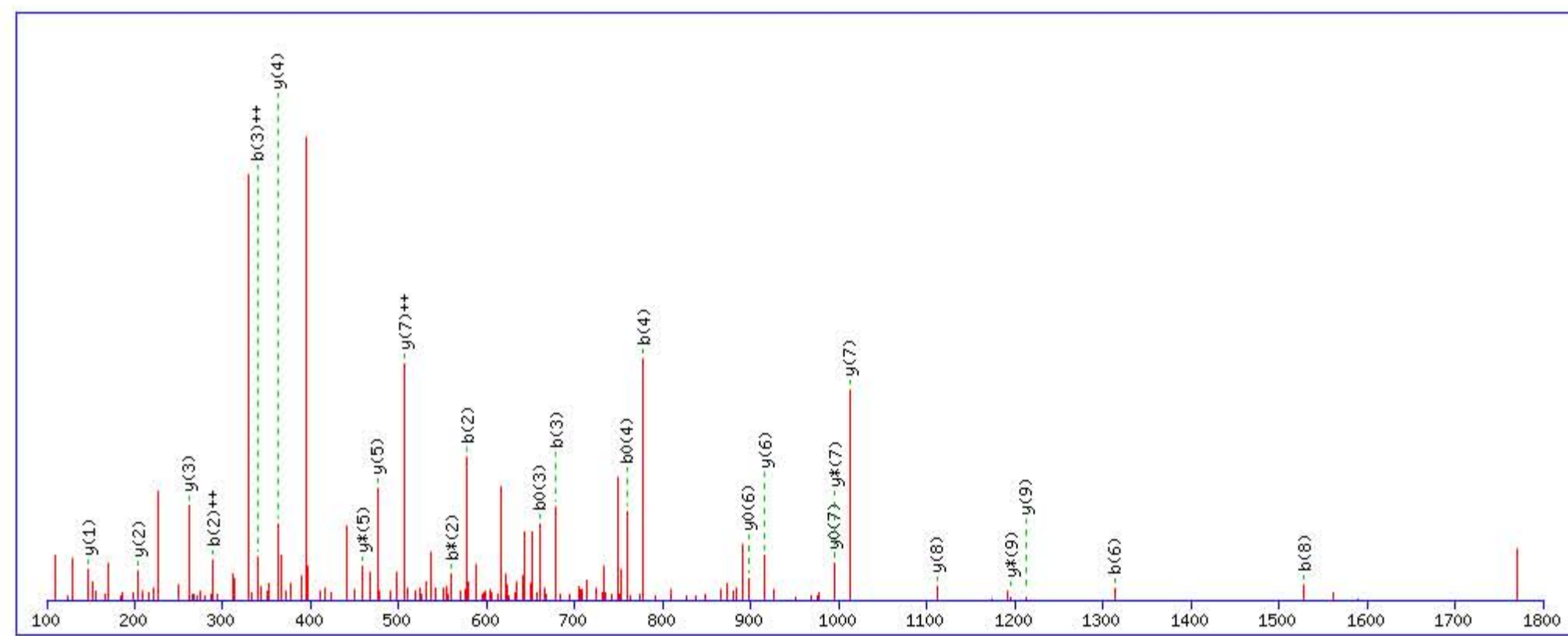
Match to Query 35463: 1787.914152 from(596.978660,3+) rtinseconds(1613) index(58595)  
 Title: Locus:1.1.1.1473.10 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

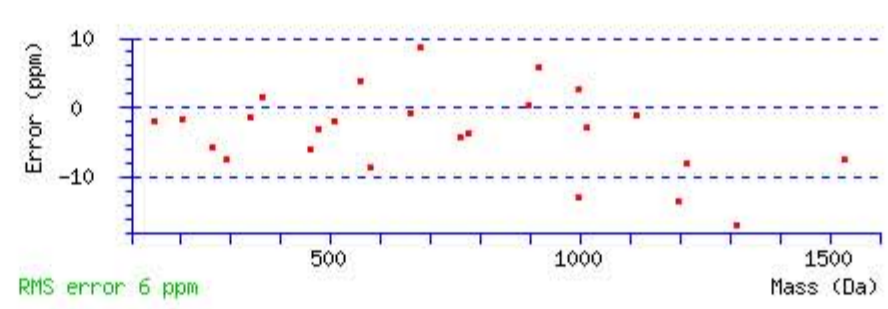
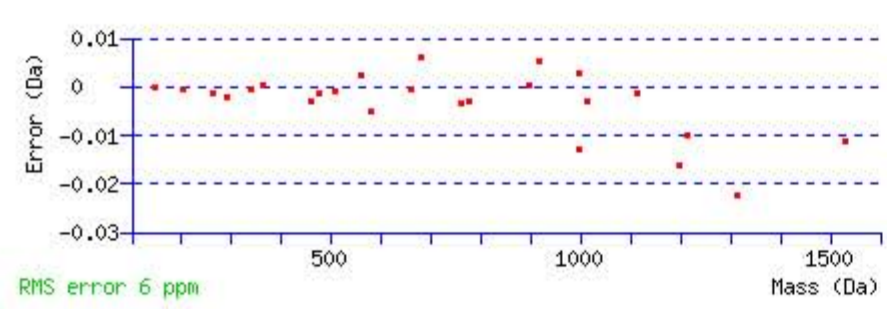
Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1787.917496  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q2 : Biotin:Thermo-21345 (Q)  
 Q6 : Biotin:Thermo-21345 (Q)  
 Ions Score: 37 Expect: 0.00059  
 Matches : 25/108 fragment ions using 59 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							11
2	577.291514	289.149395	560.264965	280.636121			Q	1651.865847	826.436562	1634.839298	817.923287	1633.855282	817.431279	10
3	678.339193	339.673235	661.312644	331.159960	660.328628	330.667952	T	1212.640521	606.823899	1195.613972	598.310624	1194.629956	597.818616	9
4	777.407607	389.207442	760.381058	380.694167	759.397042	380.202159	V	1111.592842	556.300059	1094.566293	547.786785	1093.582277	547.294777	8
5	874.460371	437.733824	857.433822	429.220549	856.449806	428.728541	P	1012.524428	506.765852	995.497879	498.252578	994.513863	497.760570	7
6	1313.685697	657.346487	1296.659148	648.833212	1295.675132	648.341204	Q	915.471664	458.239470	898.445115	449.726196	897.461099	449.234188	6
7	1427.728624	714.367950	1410.702075	705.854676	1409.718059	705.362668	N	476.246338	238.626807	459.219789	230.113532	458.235773	229.621524	5
8	1528.776303	764.891790	1511.749754	756.378515	1510.765738	755.886507	T	362.203411	181.605343	345.176862	173.092069	344.192846	172.600061	4
9	1585.797767	793.402522	1568.771218	784.889247	1567.787202	784.397239	G	261.155732	131.081504	244.129183	122.568229			3
10	1642.819231	821.913254	1625.792682	813.399979	1624.808666	812.907971	G	204.134268	102.570772	187.107719	94.057497			2
11							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **HQTVPQNTGGK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
36.5	1787.917496	-0.003344	<a href="#">HQTVPQNTGGK</a>
2.1	1787.923996	-0.009844	<a href="#">VPLQGFAALEGMNGIQK</a>
2.0	1787.935211	-0.021059	<a href="#">ARRAYGPGIEPTGNMVKK</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **DQYELLCLDNTR**

Found in **TRFE\_HUMAN**, Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3

Match to Query 36618: 1849.884028 from(925.949290,2+) rtinseconds(2458) index(62960)

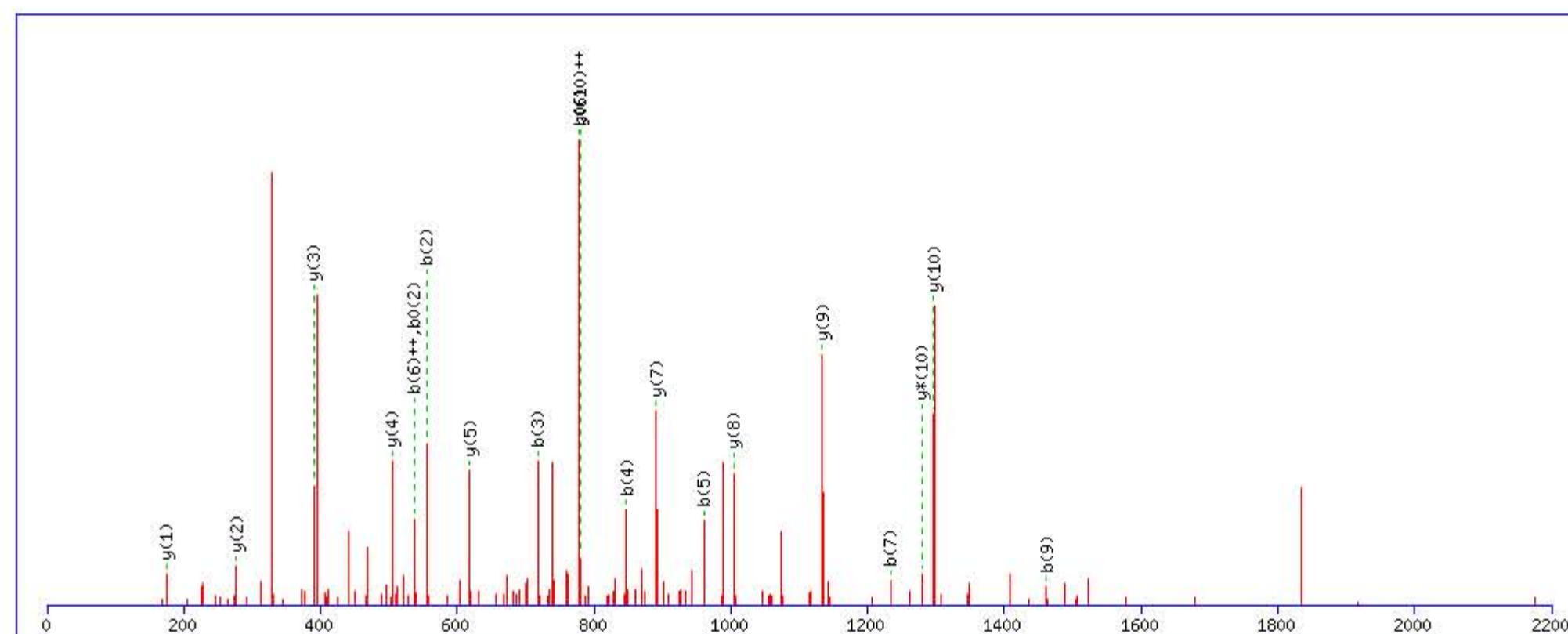
Title: Locus:1.1.1.1767.14 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1849.870239

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

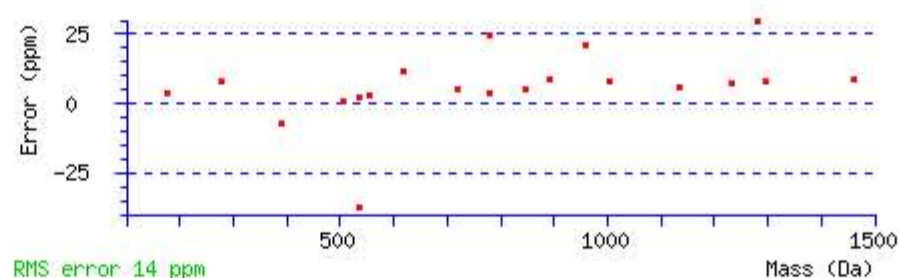
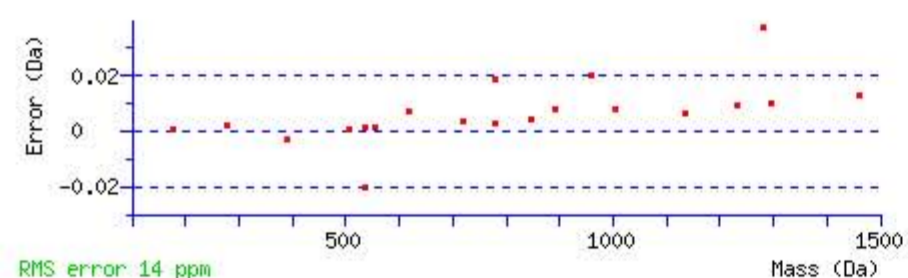
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 50 Expect: 3.4e-005

Matches : 20/128 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							12
2	<b>555.259545</b>	278.133411	538.232996	269.620136	<b>537.248980</b>	269.128128	Q	1735.850590	868.428933	1718.824041	859.915659	1717.840025	859.423651	11
3	<b>718.322874</b>	359.665075	701.296325	351.151801	700.312309	350.659793	Y	<b>1296.625264</b>	648.816270	<b>1279.598715</b>	640.302996	1278.614699	639.810988	10
4	<b>847.365467</b>	424.186372	830.338918	415.673097	829.354902	415.181089	E	<b>1133.561935</b>	567.284606	1116.535386	558.771331	1115.551370	558.279323	9
5	<b>960.449531</b>	480.728404	943.422982	472.215129	942.438966	471.723121	L	<b>1004.519342</b>	502.763309	987.492793	494.250034	986.508777	493.758026	8
6	1073.533595	<b>537.270436</b>	1056.507046	528.757161	1055.523030	528.265153	L	<b>891.435278</b>	446.221277	874.408729	437.708002	873.424713	437.215994	7
7	<b>1233.564244</b>	617.285760	1216.537695	608.772486	1215.553679	608.280478	C	<b>778.351214</b>	389.679245	761.324665	381.165971	760.340649	380.673963	6
8	1346.648308	673.827792	1329.621759	665.314518	1328.637743	664.822510	L	<b>618.320565</b>	309.663921	601.294016	301.150646	600.310000	300.658638	5
9	<b>1461.675251</b>	731.341264	1444.648702	722.827989	1443.664686	722.335981	D	<b>505.236501</b>	253.121888	488.209952	244.608614	487.225936	244.116606	4
10	1575.718178	788.362727	1558.691629	779.849453	1557.707613	<b>779.357445</b>	N	<b>390.209558</b>	195.608417	373.183009	187.095142	372.198993	186.603134	3
11	1676.765857	838.886567	1659.739308	830.373292	1658.755292	829.881284	T	<b>276.166631</b>	138.586953	259.140082	130.073679	258.156066	129.581671	2
12							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [DQYELLCLDNTR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
50.4	1849.870239	0.013789	<a href="#">DQYELLCLDNTR</a>
2.8	1849.858810	0.025218	<a href="#">ISQETEQRCSLNTR</a>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **EDPQTFYYAVAVVK**

Found in **TRFE\_HUMAN**, Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3

Match to Query 38169: 1939.984152 from(647.668660,3+) rtinseconds(2589) index(63757)

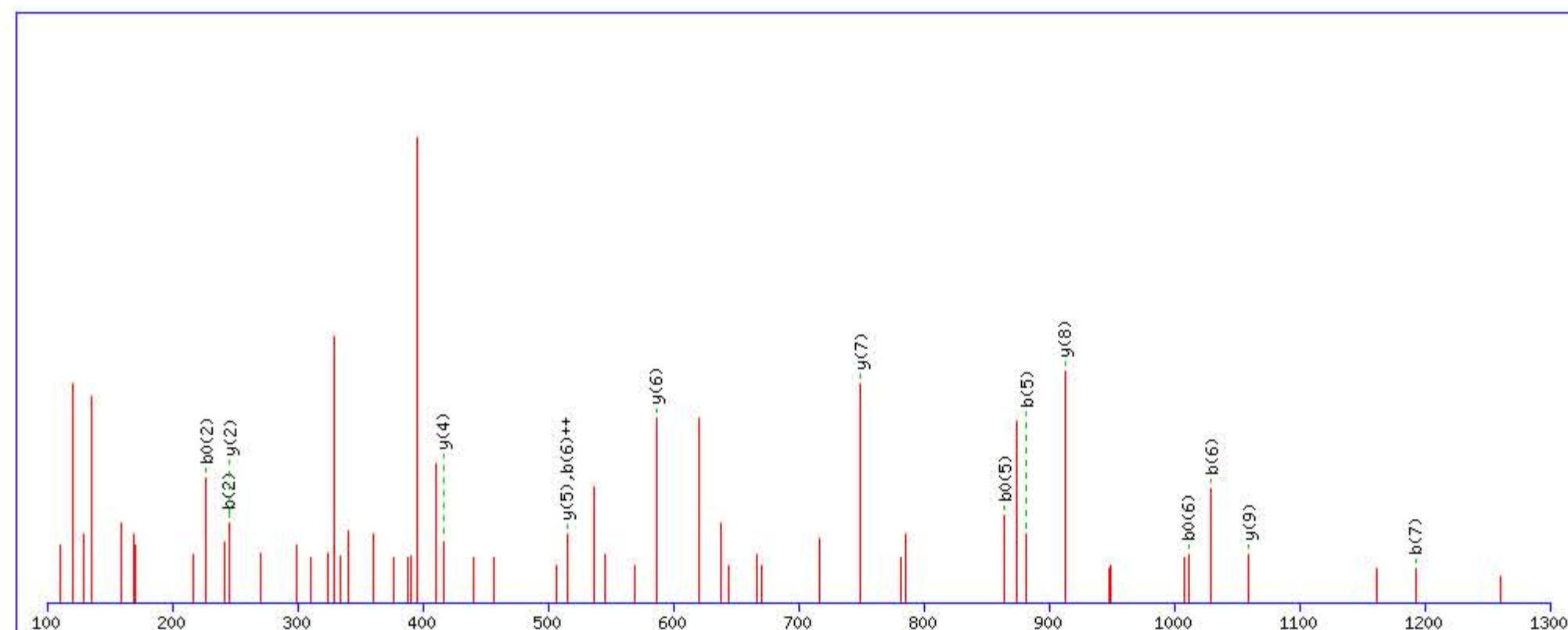
Title: Locus:1.1.1.1813.8 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1939.975372

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

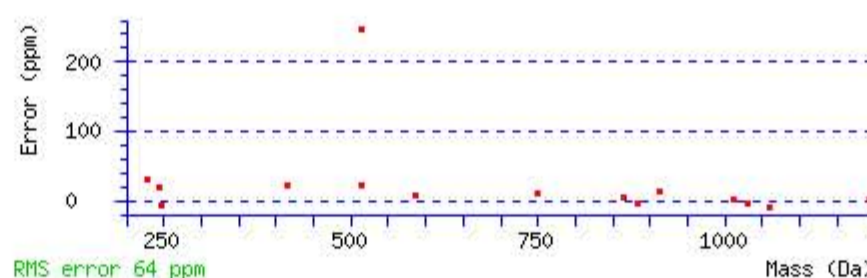
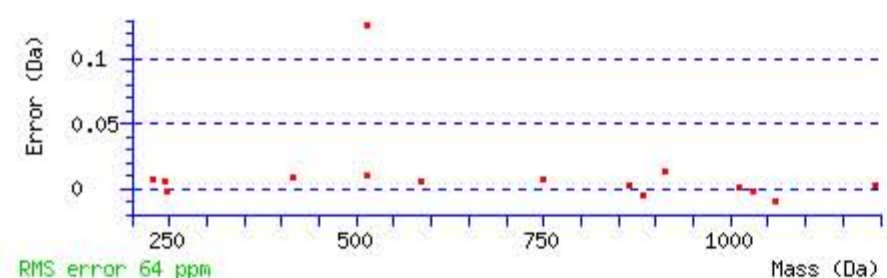
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.077

Matches : 15/132 fragment ions using 33 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							14
2	<b>245.076812</b>	123.042044			<b>227.066247</b>	114.036762	D	1811.940058	906.473667	1794.913509	897.960393	1793.929493	897.468385	13
3	342.129576	171.568426			324.119011	162.563144	P	1696.913115	848.960196	1679.886566	840.446921	1678.902550	839.954913	12
4	781.354902	391.181089	764.328353	382.667815	763.344337	382.175807	Q	1599.860351	800.433814	1582.833802	791.920539	1581.849786	791.428531	11
5	<b>882.402581</b>	441.704929	865.376032	433.191654	<b>864.392016</b>	432.699646	T	1160.635025	580.821151	1143.608476	572.307876	1142.624460	571.815868	10
6	<b>1029.470995</b>	<b>515.239136</b>	1012.444446	506.725861	<b>1011.460430</b>	506.233853	F	<b>1059.587346</b>	530.297311	1042.560797	521.784037			9
7	<b>1192.534324</b>	596.770800	1175.507775	588.257526	1174.523759	587.765518	Y	<b>912.518932</b>	456.763104	895.492383	448.249830			8
8	1355.597653	678.302465	1338.571104	669.789190	1337.587088	669.297182	Y	<b>749.455603</b>	375.231440	732.429054	366.718165			7
9	1426.634767	713.821022	1409.608218	705.307747	1408.624202	704.815739	A	<b>586.392274</b>	293.699775	569.365725	285.186501			6
10	1525.703181	763.355229	1508.676632	754.841954	1507.692616	754.349946	V	<b>515.355160</b>	258.181218	498.328611	249.667944			5
11	1596.740295	798.873786	1579.713746	790.360511	1578.729730	789.868503	A	<b>416.286746</b>	208.647011	399.260197	200.133737			4
12	1695.808709	848.407993	1678.782160	839.894718	1677.798144	839.402710	V	345.249632	173.128454	328.223083	164.615180			3
13	1794.877123	897.942200	1777.850574	889.428925	1776.866558	888.936917	V	<b>246.181218</b>	123.594247	229.154669	115.080973			2
14							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EDPQTFYYAVAVVK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
26.1	1939.975372	0.008780	<a href="#">EDPQTFYYAVAVVK</a>

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



# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **KDSGFQMNQLR**

Found in **TRFE\_HUMAN**, Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3

Match to Query 38243: 1944.974442 from(649.332090,3+) rtinseconds(2082) index(61018)

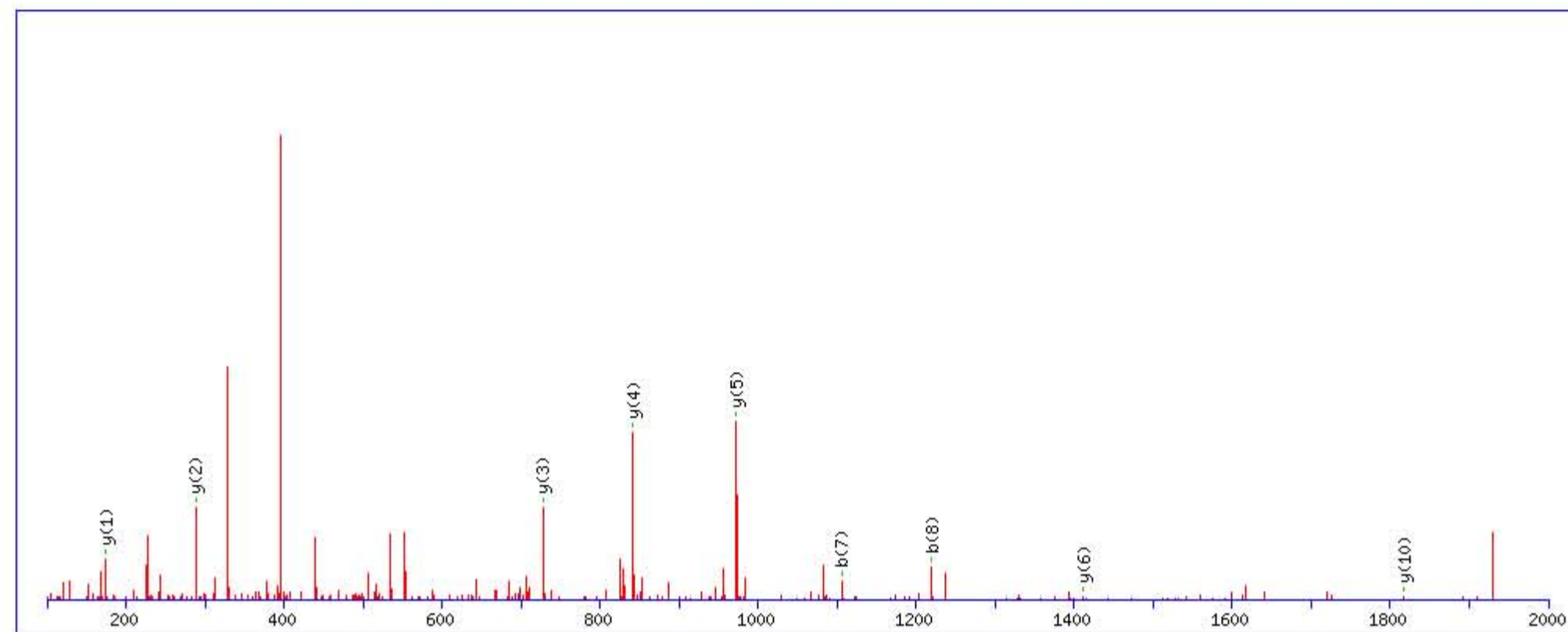
Title: Locus:1.1.1.1636.12 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1944.973602

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

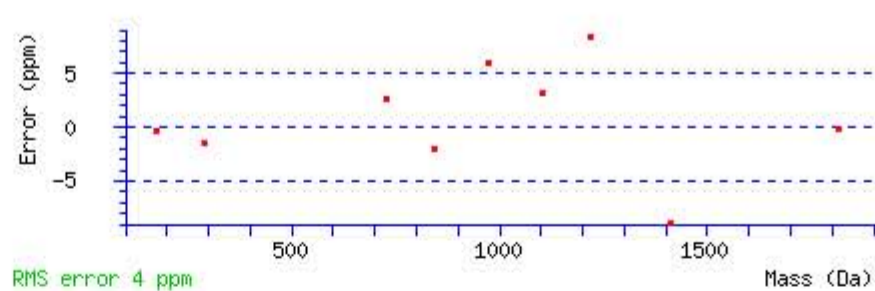
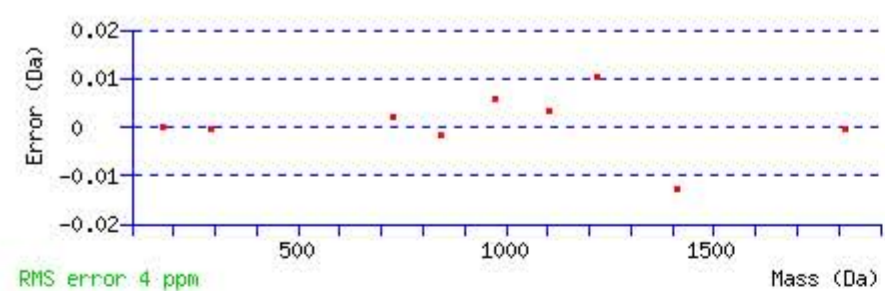
Q6 : Biotin:Thermo-21345 (Q)

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 36 Expect: 0.0014

Matches : 9/102 fragment ions using 19 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.102239	65.054757	112.075690	56.541483			K							11
2	244.129182	122.568229	227.102633	114.054955	226.118617	113.562947	D	<b>1817.885929</b>	909.446603	1800.859380	900.933328	1799.875364	900.441320	10
3	331.161210	166.084243	314.134661	157.570969	313.150645	157.078961	S	1702.858986	851.933131	1685.832437	843.419857	1684.848421	842.927848	9
4	388.182674	194.594975	371.156125	186.081701	370.172109	185.589693	G	1615.826958	808.417117	1598.800409	799.903843			8
5	535.251088	268.129182	518.224539	259.615908	517.240523	259.123900	F	1558.805494	779.906385	1541.778945	771.393111			7
6	974.476414	487.741845	957.449865	479.228571	956.465849	478.736563	Q	<b>1411.737080</b>	706.372178	1394.710531	697.858904			6
7	<b>1105.516899</b>	553.262088	1088.490350	544.748813	1087.506334	544.256805	M	<b>972.511754</b>	486.759515	955.485205	478.246241			5
8	<b>1219.559826</b>	610.283551	1202.533277	601.770277	1201.549261	601.278268	N	<b>841.471269</b>	421.239273	824.444720	412.725998			4
9	1658.785152	829.896214	1641.758603	821.382940	1640.774587	820.890932	Q	<b>727.428342</b>	364.217809	710.401793	355.704535			3
10	1771.869216	886.438246	1754.842667	877.924972	1753.858651	877.432964	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
11							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **KDSGFQMNQLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
35.6	1944.973602	0.000840	<a href="#">KDSGFQMNQLR</a>
5.0	1944.962357	0.012085	<a href="#">KFMEDEQQLR</a>
4.9	1944.991364	-0.016922	<a href="#">AGGAFLMAGQVAEQLR</a>
1.8	1944.981461	-0.007019	<a href="#">KFPPMTSYHRMLLHR</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **DCHLAQVPSHTVVAR**

Found in **TRFE\_HUMAN**, Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3

Match to Query 39303: 2000.004852 from(667.675560,3+) rtinseconds(1657) index(2988)

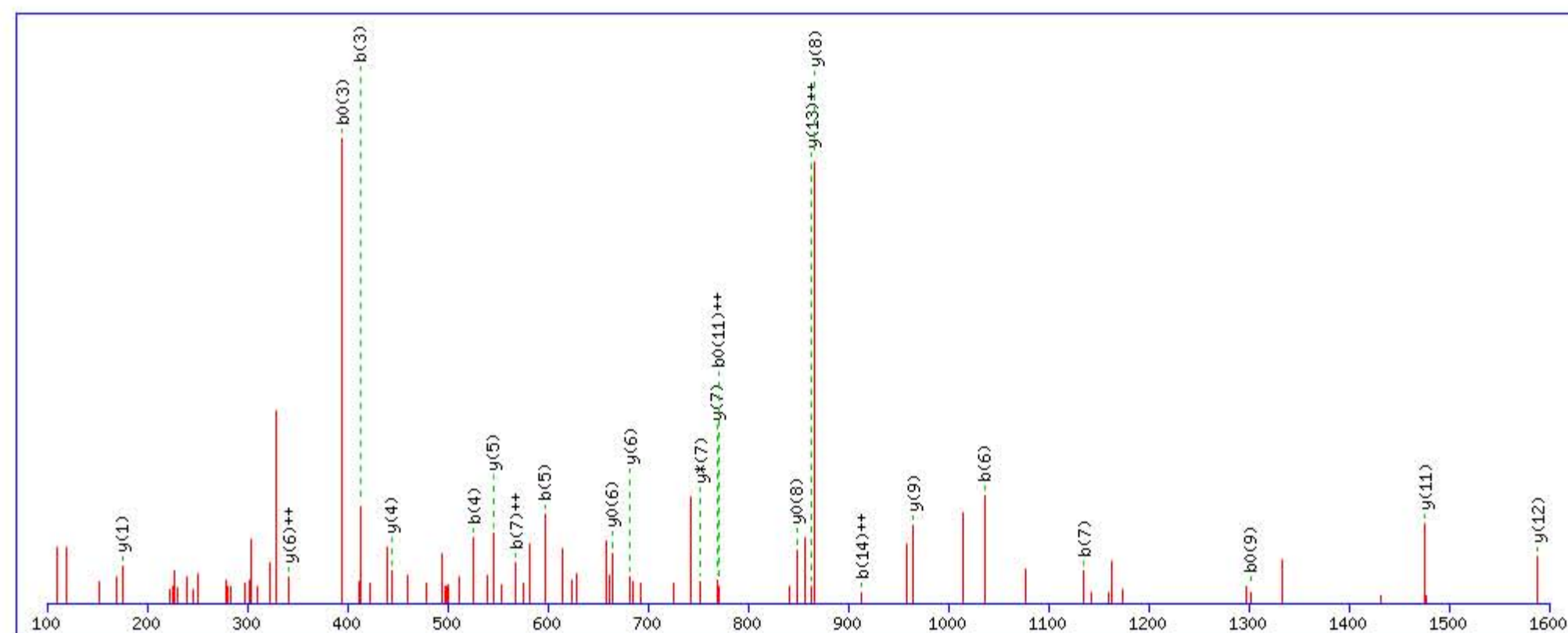
Title: Locus:1.1.1.3096.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2000.008438

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

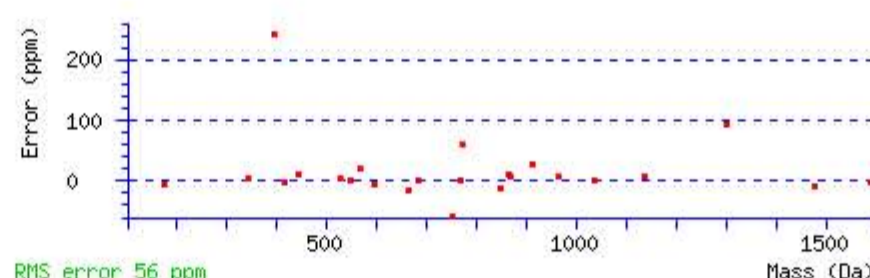
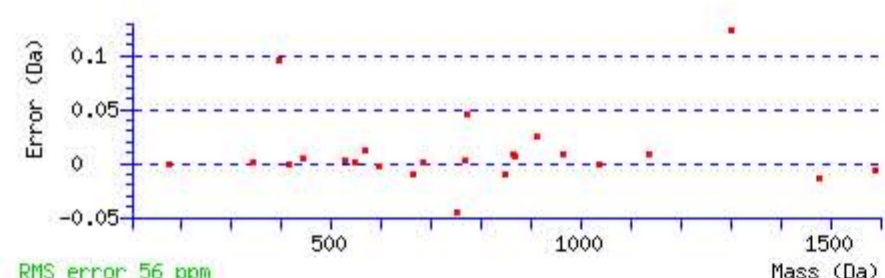
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 32 Expect: 0.0017

Matches : 24/150 fragment ions using 62 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							15
2	276.064868	138.536072			258.054303	129.530790	C	1885.988756	943.498016	1868.962207	934.984742	1867.978191	934.492734	14
3	<b>413.123780</b>	207.065528			<b>395.113215</b>	198.060245	H	1725.958107	<b>863.482692</b>	1708.931558	854.969417	1707.947542	854.477409	13
4	<b>526.207844</b>	263.607560			508.197279	254.602278	L	<b>1588.899195</b>	794.953236	1571.872646	786.439961	1570.888630	785.947953	12
5	<b>597.244958</b>	299.126117			579.234393	290.120835	A	<b>1475.815131</b>	738.411204	1458.788582	729.897929	1457.804566	729.405921	11
6	<b>1036.470284</b>	518.738780	1019.443735	510.225506	1018.459719	509.733498	Q	1404.778017	702.892647	1387.751468	694.379372	1386.767452	693.887364	10
7	<b>1135.538698</b>	<b>568.272987</b>	1118.512149	559.759713	1117.528133	559.267705	V	<b>965.552691</b>	483.279984	948.526142	474.766709	947.542126	474.274701	9
8	1232.591462	616.799369	1215.564913	608.286095	1214.580897	607.794087	P	<b>866.484277</b>	433.745777	849.457728	425.232502	<b>848.473712</b>	424.740494	8
9	1319.623490	660.315383	1302.596941	651.802109	<b>1301.612925</b>	651.310101	S	<b>769.431513</b>	385.219395	<b>752.404964</b>	376.706120	751.420948	376.214112	7
10	1456.682402	728.844839	1439.655853	720.331565	1438.671837	719.839557	H	<b>682.399485</b>	<b>341.703381</b>	665.372936	333.190106	<b>664.388920</b>	332.698098	6
11	1557.730081	779.368679	1540.703532	770.855404	1539.719516	<b>770.363396</b>	T	<b>545.340573</b>	273.173925	528.314024	264.660650	527.330008	264.168642	5
12	1656.798495	828.902886	1639.771946	820.389611	1638.787930	819.897603	V	<b>444.292894</b>	222.650085	427.266345	214.136811			4
13	1755.866909	878.437093	1738.840360	869.923818	1737.856344	869.431810	V	345.224480	173.115878	328.197931	164.602603			3
14	1826.904023	<b>913.955650</b>	1809.877474	905.442375	1808.893458	904.950367	A	246.156066	123.581671	229.129517	115.068396			2
15							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **DCHLAQVPSHTVVAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
32.3	2000.008438	-0.003586	<a href="#">DCHLAQVPSHTVVAR</a>
2.6	1999.997162	0.007690	<a href="#">ECGKAFAHMSVLIKHEK</a>
0.5	1999.978561	0.026291	<a href="#">GFTAASDSDLLAQTHR</a>

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

# MASCOT Search Results

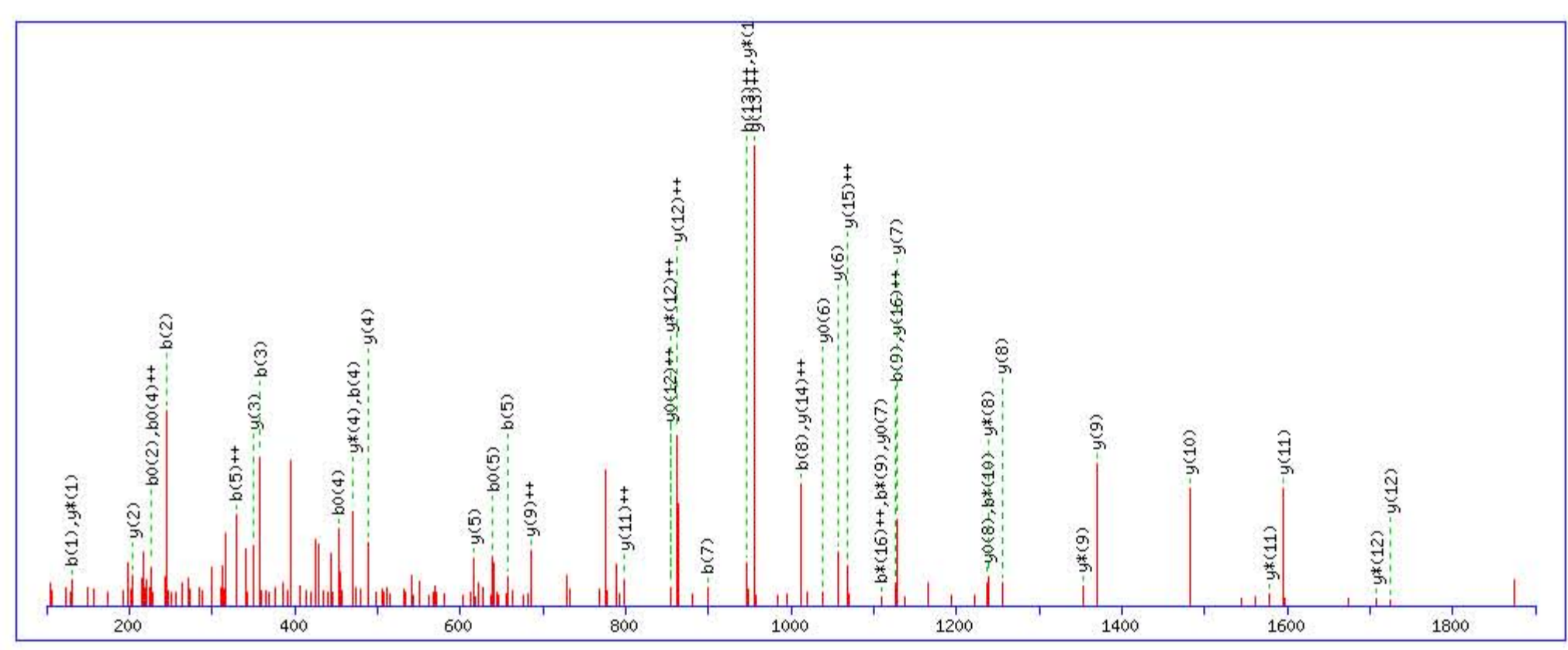
## Peptide View

MS/MS Fragmentation of **EDLIWELLNQAQEHFGK**

Found in **TRFE\_HUMAN**, Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3

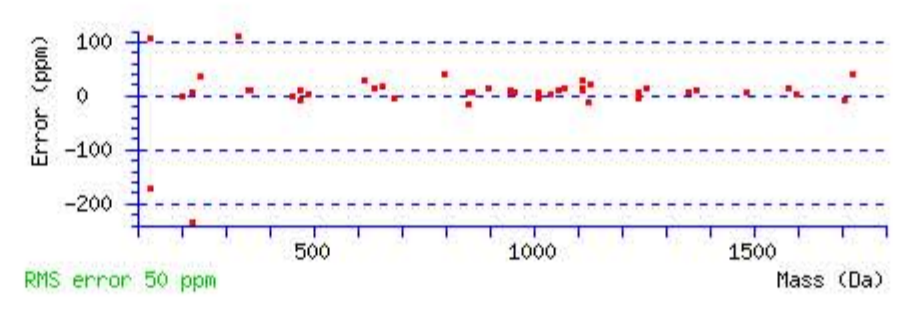
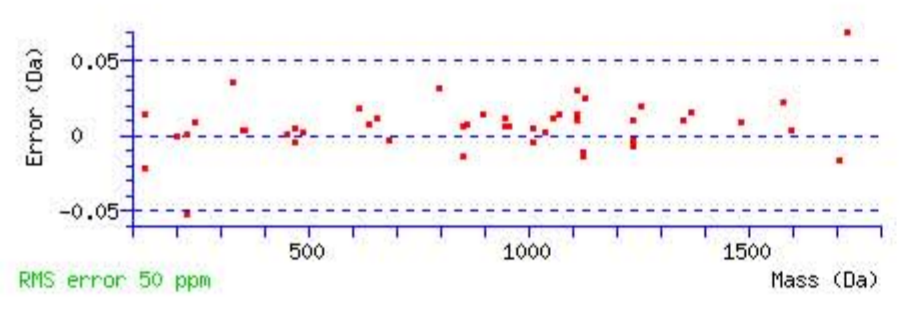
Match to Query 46112: 2380.204452 from(794.408760,3+) rtinseconds(3303) index(67804)  
 Title: Locus:1.1.1.2055.7 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2380.188522  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q12 : Biotin:Thermo-21345 (Q)  
 Ions Score: 59 Expect: 7.8e-006  
 Matches : 47/168 fragment ions using 72 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							17
2	245.076812	123.042044			227.066247	114.036762	D	2252.153237	1126.580256	2235.126688	1118.066982	2234.142672	1117.574974	16
3	358.160876	179.584076			340.150311	170.578794	L	2137.126294	1069.066785	2120.099745	1060.553510	2119.115729	1060.061502	15
4	471.244940	236.126108			453.234375	227.120826	I	2024.042230	1012.524753	2007.015681	1004.011479	2006.031665	1003.519470	14
5	657.324253	329.165765			639.313688	320.160482	W	1910.958166	955.982721	1893.931617	947.469447	1892.947601	946.977438	13
6	786.366846	393.687061			768.356281	384.681779	E	1724.878853	862.943064	1707.852304	854.429790	1706.868288	853.937782	12
7	899.450910	450.229093			881.440345	441.223811	L	1595.836260	798.421768	1578.809711	789.908493	1577.825695	789.416485	11
8	1012.534974	506.771125			994.524409	497.765843	L	1482.752196	741.879736	1465.725647	733.366461	1464.741631	732.874453	10
9	1126.577901	563.792589	1109.551352	555.279314	1108.567336	554.787306	N	1369.668132	685.337704	1352.641583	676.824429	1351.657567	676.332421	9
10	1254.636479	627.821878	1237.609930	619.308603	1236.625914	618.816595	Q	1255.625205	628.316240	1238.598656	619.802966	1237.614640	619.310958	8
11	1325.673593	663.340435	1308.647044	654.827160	1307.663028	654.335152	A	1127.566627	564.286951	1110.540078	555.773677	1109.556062	555.281669	7
12	1764.898919	882.953098	1747.872370	874.439823	1746.888354	873.947815	Q	1056.529513	528.768395	1039.502964	520.255120	1038.518948	519.763112	6
13	1893.941512	947.474394	1876.914963	938.961120	1875.930947	938.469112	E	617.304187	309.155732	600.277638	300.642457	599.293622	300.150449	5
14	2031.000424	1016.003850	2013.973875	1007.490576	2012.989859	1006.998568	H	488.261594	244.634435	471.235045	236.121160			4
15	2178.068838	1089.538057	2161.042289	1081.024782	2160.058273	1080.532774	F	351.202682	176.104979	334.176133	167.591704			3
16	2235.090302	1118.048789	2218.063753	1109.535514	2217.079737	1109.043506	G	204.134268	102.570772	187.107719	94.057497			2
17							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **EDLIWELLNQAQEHFGK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
59.0	2380.188522	0.015930	<a href="#">EDLIWELLNQAQEHFGK</a>
44.4	2380.188522	0.015930	<a href="#">EDLIWELLNQAQEHFGK</a>
4.6	2380.212997	-0.008545	<a href="#">ELTLEHMETERLELAQK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SMGGKEDLIWELLNQAQEHFGK**

Found in **TRFE\_HUMAN**, Serotransferrin OS=Homo sapiens GN=TF PE=1 SV=3

Match to Query 52080: 2840.414816 from(711.110980,4+) rtinseconds(3018) index(66772)

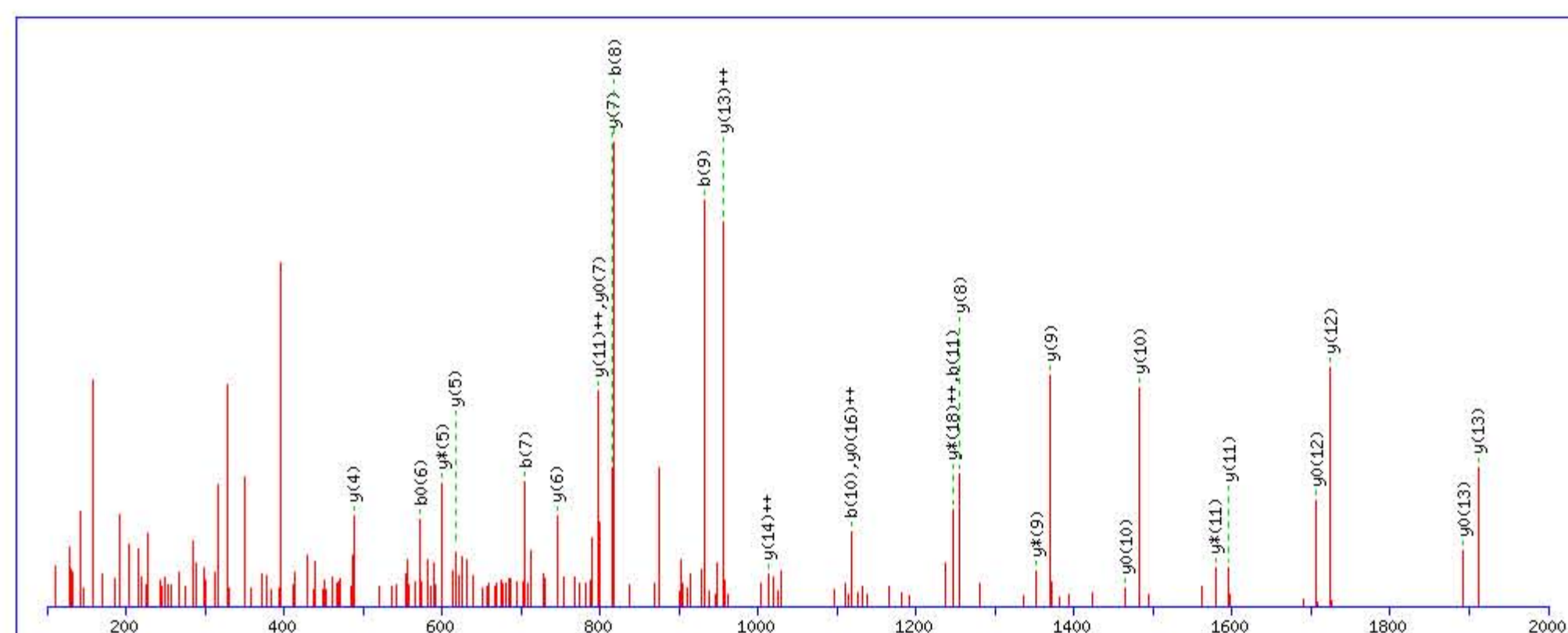
Title: Locus:1.1.1.1959.4 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2840.398926

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

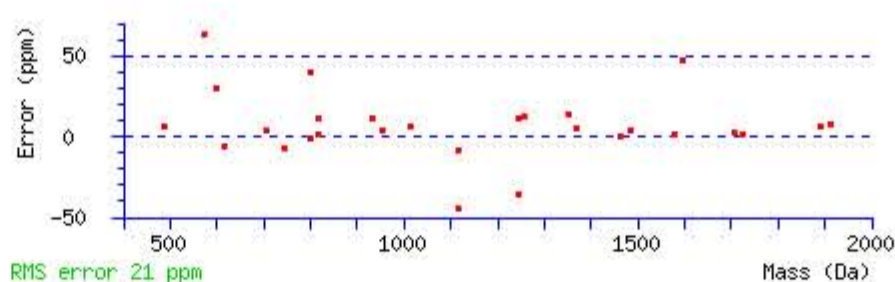
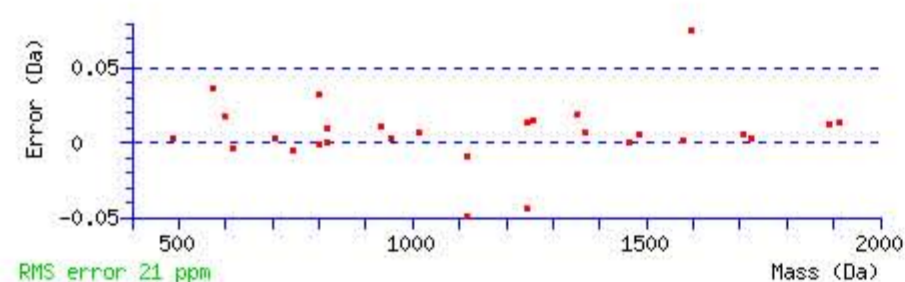
Variable modifications:

Q15 : Biotin:Thermo-21345 (Q)

Ions Score: 61 Expect: 2.3e-006

Matches : 28/236 fragment ions using 36 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							22
2	219.079789	110.043532			201.069224	101.038250	M	2754.374206	1377.690741	2737.347657	1369.177466	2736.363641	1368.685458	21
3	276.101253	138.554264			258.090688	129.548982	G	2623.333721	1312.170498	2606.307172	1303.657224	2605.323156	1303.165216	20
4	333.122717	167.064996			315.112152	158.059714	G	2566.312257	1283.659766	2549.285708	1275.146492	2548.301692	1274.654484	19
5	461.217680	231.112478	444.191131	222.599203	443.207115	222.107195	K	2509.290793	1255.149034	2492.264244	1246.635760	2491.280228	1246.143752	18
6	590.260273	295.633775	573.233724	287.120500	572.249708	286.628492	E	2381.195830	1191.101553	2364.169281	1182.588278	2363.185265	1182.096270	17
7	705.287216	353.147246	688.260667	344.633972	687.276651	344.141964	D	2252.153237	1126.580256	2235.126688	1118.066982	2234.142672	1117.574974	16
8	818.371280	409.689278	801.344731	401.176004	800.360715	400.683996	L	2137.126294	1069.066785	2120.099745	1060.553510	2119.115729	1060.061502	15
9	931.455344	466.231310	914.428795	457.718036	913.444779	457.226028	I	2024.042230	1012.524753	2007.015681	1004.011479	2006.031665	1003.519471	14
10	1117.534657	559.270967	1100.508108	550.757692	1099.524092	550.265684	W	1910.958166	955.982721	1893.931617	947.469447	1892.947601	946.977439	13
11	1246.577250	623.792263	1229.550701	615.278989	1228.566685	614.786981	E	1724.878853	862.943065	1707.852304	854.429790	1706.868288	853.937782	12
12	1359.661314	680.334295	1342.634765	671.821021	1341.650749	671.329012	L	1595.836260	798.421768	1578.809711	789.908494	1577.825695	789.416486	11
13	1472.745378	736.876327	1455.718829	728.363052	1454.734813	727.871044	L	1482.752196	741.879736	1465.725647	733.366462	1464.741631	732.874454	10
14	1586.788305	793.897790	1569.761756	785.384516	1568.777740	784.892508	N	1369.668132	685.337704	1352.641583	676.824430	1351.657567	676.332422	9
15	2026.013631	1013.510454	2008.987082	1004.997179	2008.003066	1004.505171	Q	1255.625205	628.316241	1238.598656	619.802966	1237.614640	619.310958	8
16	2097.050745	1049.029010	2080.024196	1040.515736	2079.040180	1040.023728	A	816.399879	408.703578	799.373330	400.190303	798.389314	399.698295	7
17	2225.109323	1113.058300	2208.082774	1104.545025	2207.098758	1104.053017	Q	745.362765	373.185021	728.336216	364.671746	727.352200	364.179738	6
18	2354.151916	1177.579596	2337.125367	1169.066322	2336.141351	1168.574314	E	617.304187	309.155732	600.277638	300.642457	599.293622	300.150449	5
19	2491.210828	1246.109052	2474.184279	1237.595777	2473.200263	1237.103770	H	488.261594	244.634435	471.235045	236.121160			4
20	2638.279242	1319.643259	2621.252693	1311.129984	2620.268677	1310.637976	F	351.202682	176.104979	334.176133	167.591704			3
21	2695.300706	1348.153991	2678.274157	1339.640716	2677.290141	1339.148708	G	204.134268	102.570772	187.107719	94.057497			2
22							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **SMGGKEDLIWELLNQAQEHFGK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
61.0	2840.398926	0.015890	<a href="#">SMGGKEDLIWELLNQAQEHFGK</a>
42.0	2840.398926	0.015890	<a href="#">SMGGKEDLIWELLNQAQEHFGK</a>
0.8	2840.394440	0.020376	<a href="#">MNNQTKILDCLMAASIPAVEIFMVK</a>
0.1	2840.380539	0.034277	<a href="#">SLGTIQCCDAIDHLCRIIEK</a>

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **FQNALLVR**

Found in **ALBU\_HUMAN**, Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=2

Match to Query 19562: 1270.718108 from(636.366330,2+) rtinseconds(2129) index(32617)

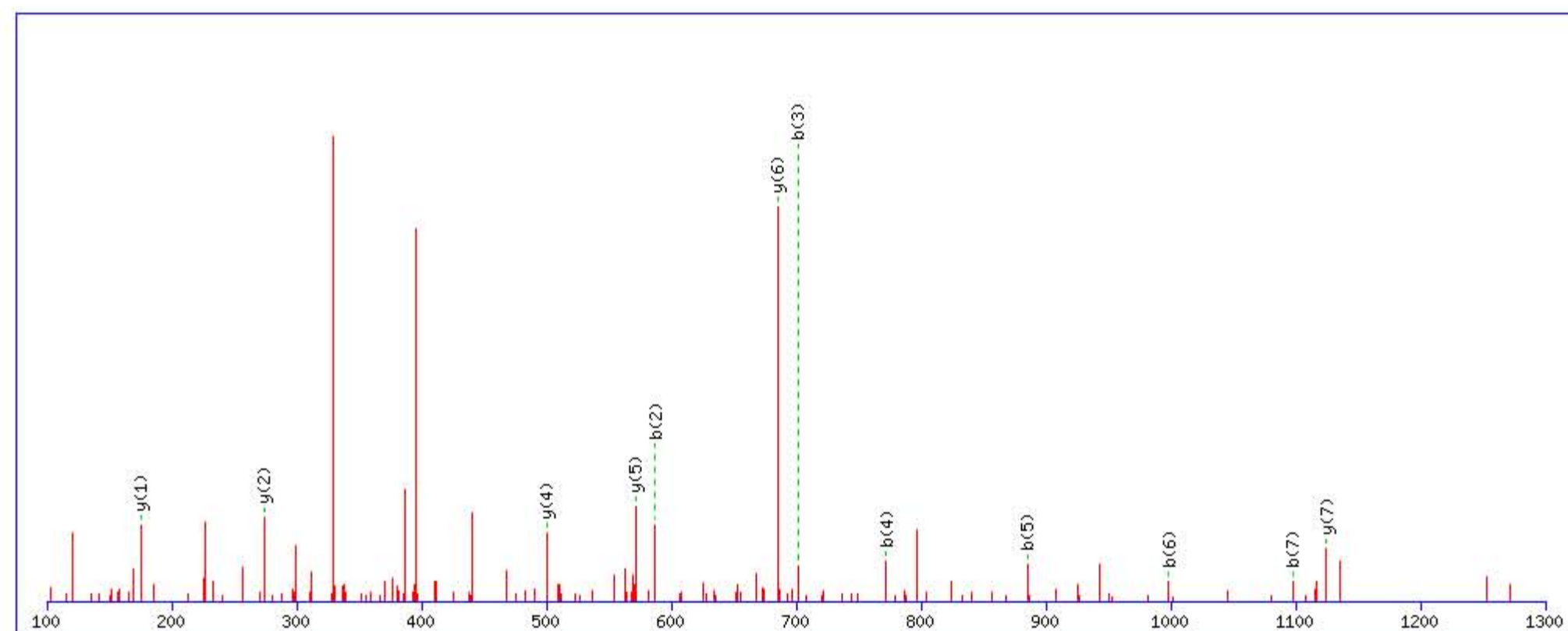
Title: Locus:1.1.1.3405.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1270.721985

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

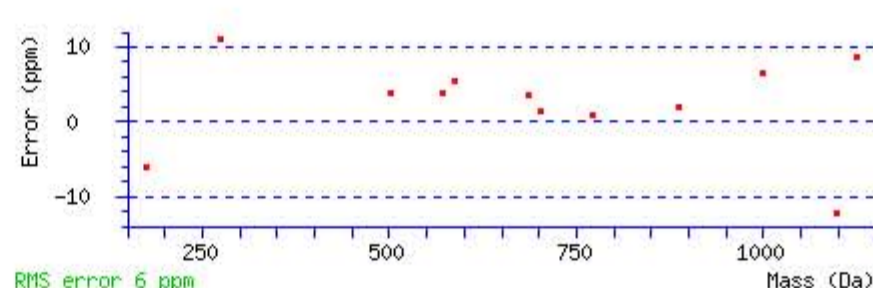
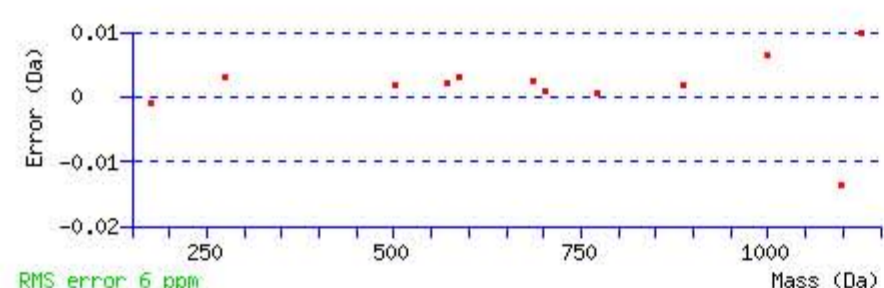
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 38 Expect: 0.0061

Matches : 12/54 fragment ions using 23 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	#
1	148.075690	74.541483			F					8
2	<b>587.301016</b>	294.154146	570.274467	285.640872	Q	<b>1124.660861</b>	562.834068	1107.634312	554.320794	7
3	<b>701.343943</b>	351.175610	684.317394	342.662335	N	<b>685.435535</b>	343.221406	668.408986	334.708131	6
4	<b>772.381057</b>	386.694166	755.354508	378.180892	A	<b>571.392608</b>	286.199942	554.366059	277.686668	5
5	<b>885.465121</b>	443.236199	868.438572	434.722924	L	<b>500.355494</b>	250.681385	483.328945	242.168110	4
6	<b>998.549185</b>	499.778231	981.522636	491.264956	L	387.271430	194.139353	370.244881	185.626078	3
7	<b>1097.617599</b>	549.312437	1080.591050	540.799163	V	<b>274.187366</b>	137.597321	257.160817	129.084046	2
8					R	<b>175.118952</b>	88.063114	158.092403	79.549839	1



NCBI BLAST search of [FQNALLVR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
37.8	1270.721985	-0.003877	<a href="#">FQNALLVR</a>
16.2	1270.722000	-0.003892	<a href="#">FQIAQVVR</a>
14.3	1270.699295	0.018813	<a href="#">QEAEERKLLR</a>
13.0	1270.735687	-0.017579	<a href="#">KEAELRSGIIR</a>
11.7	1270.699341	0.018767	<a href="#">AVTLRSGSEPVR</a>
9.1	1270.699295	0.018813	<a href="#">AEKLERELQR</a>
8.2	1270.706696	0.011412	<a href="#">LPALLEKNAMR</a>
6.7	1270.725357	-0.007249	<a href="#">QKVMAIVR</a>
6.7	1270.733215	-0.015107	<a href="#">FQRQILR</a>
6.6	1270.733215	-0.015107	<a href="#">MFHIRAVILR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LVAASQAALGL**

Found in **ALBU\_HUMAN**, Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=2

Match to Query 20764: 1323.759728 from(662.887140,2+) rtinseconds(2532) index(34860)

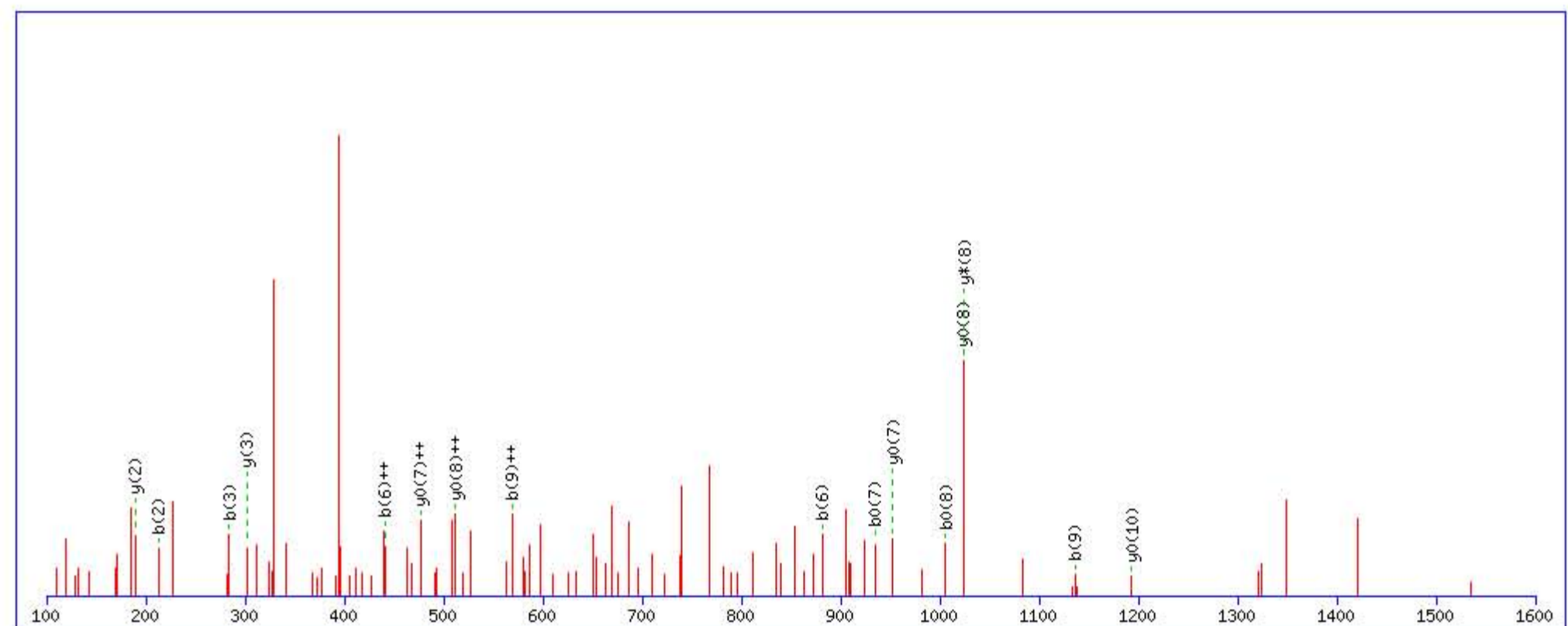
Title: Locus:1.1.1.3545.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1323.758423

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

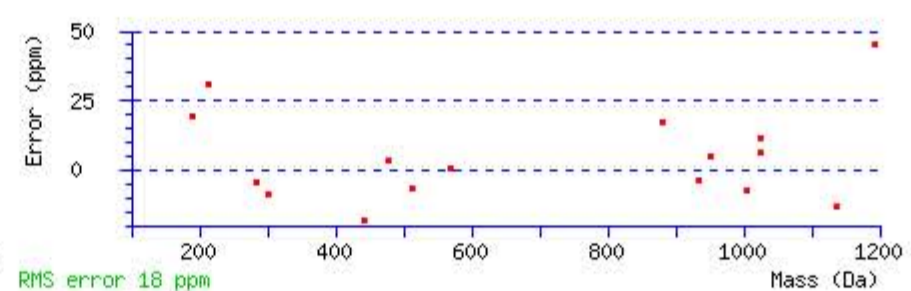
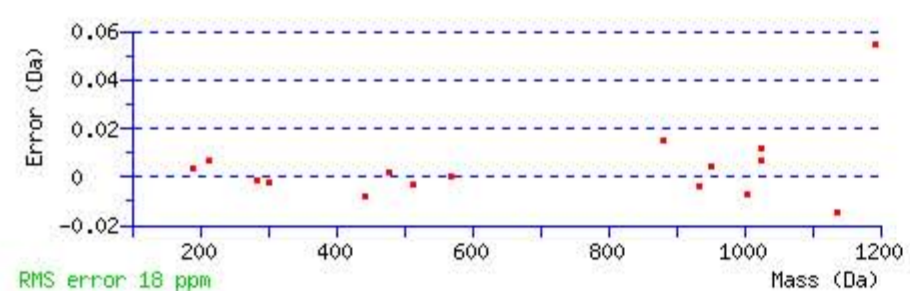
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.022

Matches : 21/80 fragment ions using 44 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							11
2	<b>213.159754</b>	107.083515					V	1211.681657	606.344466	1194.655108	597.831192	<b>1193.671092</b>	597.339184	10
3	<b>284.196868</b>	142.602072					A	1112.613243	556.810259	1095.586694	548.296985	1094.602678	547.804977	9
4	355.233982	178.120629					A	1041.576129	521.291702	<b>1024.549580</b>	512.778428	<b>1023.565564</b>	<b>512.286420</b>	8
5	442.266010	221.636643			424.255445	212.631361	S	970.539015	485.773145	953.512466	477.259871	<b>952.528450</b>	<b>476.767863</b>	7
6	<b>881.491336</b>	<b>441.249306</b>	864.464787	432.736032	863.480771	432.244024	Q	883.506987	442.257131	866.480438	433.743857			6
7	<b>952.528450</b>	<b>476.767863</b>	935.501901	468.254589	<b>934.517885</b>	467.762581	A	444.281661	222.644468					5
8	<b>1023.565564</b>	<b>512.286420</b>	1006.539015	503.773146	<b>1005.554999</b>	503.281138	A	373.244547	187.125911					4
9	<b>1136.649628</b>	<b>568.828452</b>	1119.623079	560.315178	1118.639063	559.823169	L	<b>302.207433</b>	151.607354					3
10	<b>1193.671092</b>	597.339184	1176.644543	588.825909	1175.660527	588.333901	G	<b>189.123369</b>	95.065322					2
11							L	132.101905	66.554590					1



NCBI BLAST search of **LVAASQAALGL**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
26.5	1323.758423	0.001305	<b>LVAASQAALGL</b>

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

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **AAFTECCQAADK**

Found in **ALBU\_HUMAN**, Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=2

Match to Query 33341: 1681.718202 from(561.580010,3+) rtinseconds(1635) index(16742)

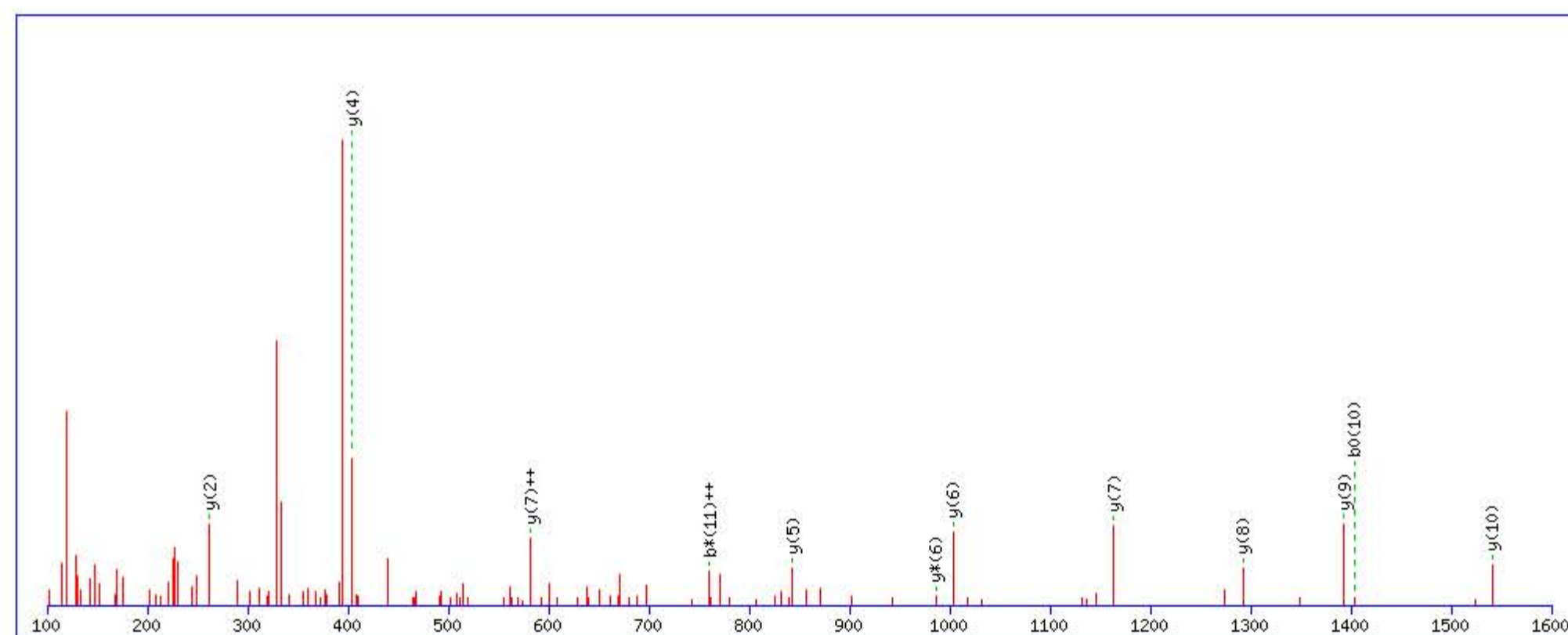
Title: Locus:1.1.1.3135.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1681.726227

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

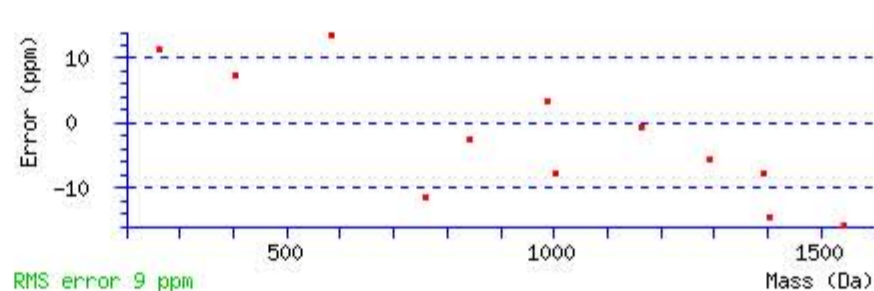
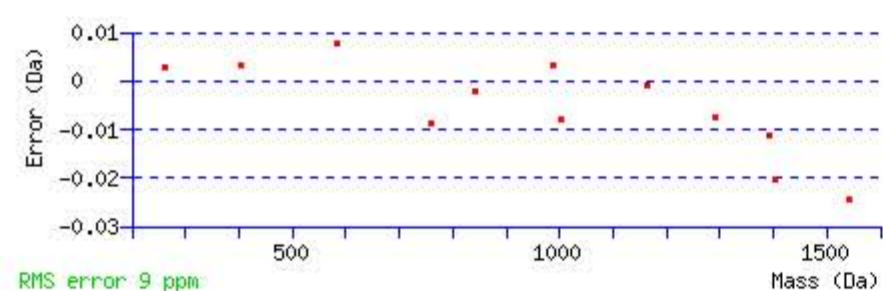
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 53 Expect: 1.8e-005

Matches : 12/110 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							12
2	143.081504	72.044390					A	1611.696399	806.351838	1594.669850	797.838563	1593.685834	797.346555	11
3	290.149918	145.578597					F	<b>1540.659285</b>	770.833281	1523.632736	762.320006	1522.648720	761.827998	10
4	391.197597	196.102437			373.187032	187.097154	T	<b>1393.590871</b>	697.299074	1376.564322	688.785799	1375.580306	688.293791	9
5	520.240190	260.623733			502.229625	251.618451	E	<b>1292.543192</b>	646.775234	1275.516643	638.261960	1274.532627	637.769952	8
6	680.270839	340.639058			662.260274	331.633775	C	<b>1163.500599</b>	<b>582.253938</b>	1146.474050	573.740663	1145.490034	573.248655	7
7	840.301488	420.654382			822.290923	411.649100	C	<b>1003.469950</b>	502.238613	<b>986.443401</b>	493.725339	985.459385	493.233331	6
8	1279.526814	640.267045	1262.500265	631.753771	1261.516249	631.261763	Q	<b>843.439301</b>	422.223289	826.412752	413.710014	825.428736	413.218006	5
9	1350.563928	675.785602	1333.537379	667.272328	1332.553363	666.780320	A	<b>404.213975</b>	202.610626	387.187426	194.097351	386.203410	193.605343	4
10	1421.601042	711.304159	1404.574493	702.790885	<b>1403.590477</b>	702.298877	A	333.176861	167.092069	316.150312	158.578794	315.166296	158.086786	3
11	1536.627985	768.817631	1519.601436	<b>760.304356</b>	1518.617420	759.812348	D	<b>262.139747</b>	131.573512	245.113198	123.060237	244.129182	122.568229	2
12							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [AAFTECCQAADK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
53.0	1681.726227	-0.008025	<a href="#">AAFTECCQAADK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **YICENQDSISSK**

Found in **ALBU\_HUMAN**, Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=2

Match to Query 34725: 1753.789468 from(877.902010,2+) rtinseconds(1682) index(16999)

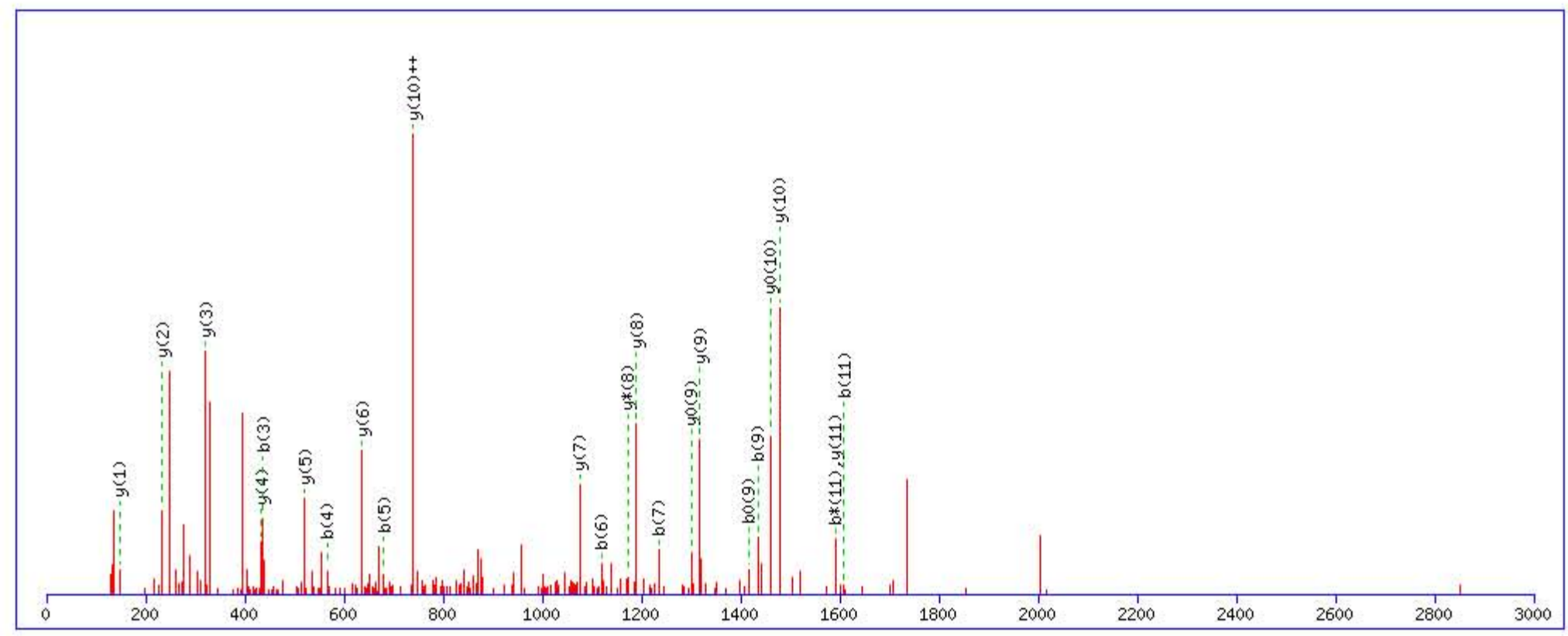
Title: Locus:1.1.1.3151.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1753.801483

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

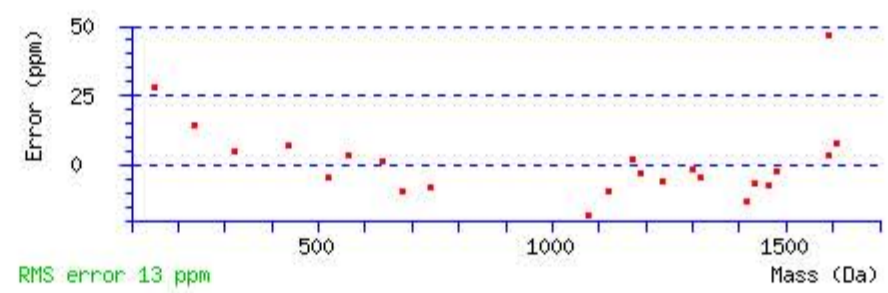
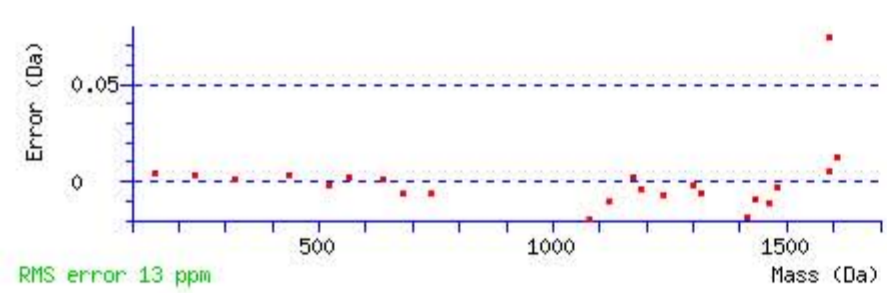
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 65 Expect: 1.7e-006

Matches : 24/116 fragment ions using 49 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	164.070605	82.538940					Y							12
2	277.154669	139.080973					I	1591.745454	796.376365	1574.718905	787.863091	1573.734889	787.371083	11
3	437.185318	219.096297					C	1478.661390	739.834333	1461.634841	731.321059	1460.650825	730.829051	10
4	566.227911	283.617594			548.217346	274.612311	E	1318.630741	659.819009	1301.604192	651.305734	1300.620176	650.813726	9
5	680.270838	340.639057	663.244289	332.125783	662.260273	331.633775	N	1189.588148	595.297712	1172.561599	586.784438	1171.577583	586.292430	8
6	1119.496164	560.251720	1102.469615	551.738446	1101.485599	551.246437	Q	1075.545221	538.276249	1058.518672	529.762974	1057.534656	529.270966	7
7	1234.523107	617.765192	1217.496558	609.251917	1216.512542	608.759909	D	636.319895	318.663586	619.293346	310.150311	618.309330	309.658303	6
8	1321.555135	661.281206	1304.528586	652.767931	1303.544570	652.275923	S	521.292952	261.150114	504.266403	252.636840	503.282387	252.144832	5
9	1434.639199	717.823238	1417.612650	709.309963	1416.628634	708.817955	I	434.260924	217.634100	417.234375	209.120826	416.250359	208.628818	4
10	1521.671227	761.339252	1504.644678	752.825977	1503.660662	752.333969	S	321.176860	161.092068	304.150311	152.578794	303.166295	152.086786	3
11	1608.703255	804.855266	1591.676706	796.341991	1590.692690	795.849983	S	234.144832	117.576054	217.118283	109.062780	216.134267	108.570772	2
12							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **YICENQDSISSK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
64.9	1753.801483	-0.012015	<a href="#">YICENQDSISSK</a>
3.1	1753.805496	-0.016028	<a href="#">EMFQTYKQMYLEK</a>
2.3	1753.778824	0.010644	<a href="#">SKGESNQMNLDTASEK</a>



# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **KVPQVSTPILVEVSR**

Found in **ALBU\_HUMAN**, Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=2

Match to Query 38333: 1950.089322 from(651.037050,3+) rtinseconds(1957) index(31532)

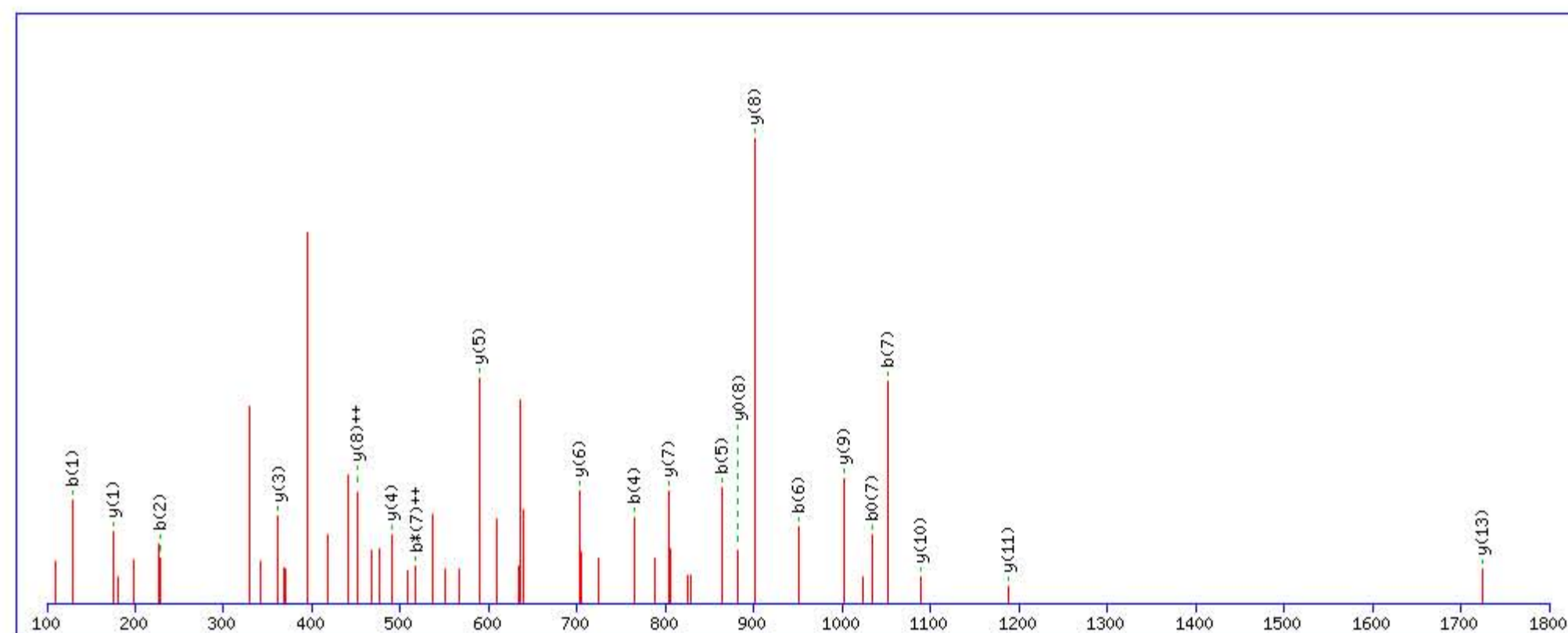
Title: Locus:1.1.1.3345.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 1950.097229

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

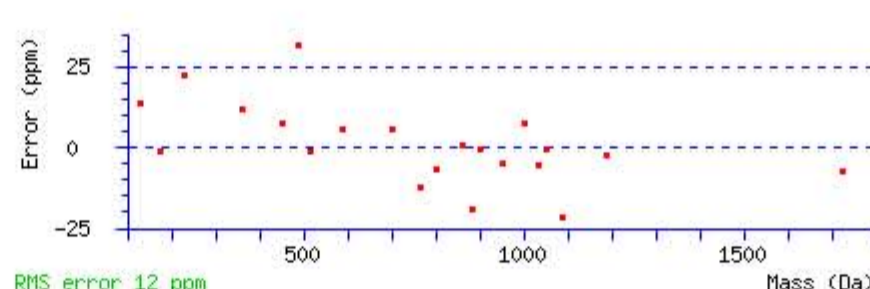
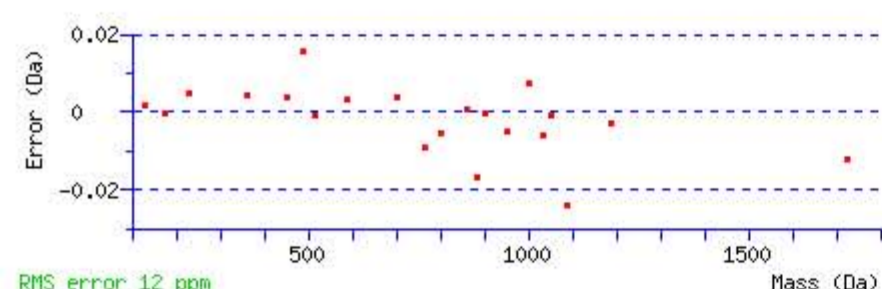
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 67 Expect:  $2.7e-006$

Matches : 21/156 fragment ions using 39 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>129.102239</b>	65.054757	112.075690	56.541483			<b>K</b>							<b>15</b>
2	<b>228.170653</b>	114.588965	211.144104	106.075690			<b>V</b>	1823.009533	912.008404	1805.982984	903.495130	1804.998968	903.003122	<b>14</b>
3	325.223417	163.115346	308.196868	154.602072			<b>P</b>	<b>1723.941119</b>	862.474197	1706.914570	853.960923	1705.930554	853.468915	<b>13</b>
4	<b>764.448743</b>	382.728010	747.422194	374.214735			<b>Q</b>	1626.888355	813.947815	1609.861806	805.434541	1608.877790	804.942533	<b>12</b>
5	<b>863.517157</b>	432.262217	846.490608	423.748942			<b>V</b>	<b>1187.663029</b>	594.335153	1170.636480	585.821878	1169.652464	585.329870	<b>11</b>
6	<b>950.549185</b>	475.778231	933.522636	467.264956	932.538620	466.772948	<b>S</b>	<b>1088.594615</b>	544.800946	1071.568066	536.287671	1070.584050	535.795663	<b>10</b>
7	<b>1051.596864</b>	526.302070	1034.570315	<b>517.788795</b>	<b>1033.586299</b>	517.296787	<b>T</b>	<b>1001.562587</b>	501.284932	984.536038	492.771657	983.552022	492.279649	<b>9</b>
8	1148.649628	574.828452	1131.623079	566.315178	1130.639063	565.823169	<b>P</b>	<b>900.514908</b>	<b>450.761092</b>	883.488359	442.247818	<b>882.504343</b>	441.755810	<b>8</b>
9	1249.697307	625.352291	1232.670758	616.839017	1231.686742	616.347009	<b>T</b>	<b>803.462144</b>	402.234710	786.435595	393.721436	785.451579	393.229428	<b>7</b>
10	1362.781371	681.894323	1345.754822	673.381049	1344.770806	672.889041	<b>L</b>	<b>702.414465</b>	351.710871	685.387916	343.197596	684.403900	342.705588	<b>6</b>
11	1461.849785	731.428530	1444.823236	722.915256	1443.839220	722.423248	<b>V</b>	<b>589.330401</b>	295.168839	572.303852	286.655564	571.319836	286.163556	<b>5</b>
12	1590.892378	795.949827	1573.865829	787.436552	1572.881813	786.944544	<b>E</b>	<b>490.261987</b>	245.634631	473.235438	237.121357	472.251422	236.629349	<b>4</b>
13	1689.960792	845.484034	1672.934243	836.970759	1671.950227	836.478751	<b>V</b>	<b>361.219394</b>	181.113335	344.192845	172.600061	343.208829	172.108053	<b>3</b>
14	1776.992820	889.000048	1759.966271	880.486774	1758.982255	879.994765	<b>S</b>	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	<b>2</b>
15							<b>R</b>	<b>175.118952</b>	88.063114	158.092403	79.549839			<b>1</b>



NCBI BLAST search of [KVPQVSTPILVEVSR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	$M_r(\text{calc})$ :	Delta	Sequence
66.6	1950.097229	-0.007907	<a href="#">KVPQVSTPILVEVSR</a>
9.7	1950.060791	0.028531	<a href="#">QPITEAEMKGVKHEK</a>
1.3	1950.065521	0.023801	<a href="#">QAQTRVNLK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QNCELFEQLGEYK**

Found in **ALBU\_HUMAN**, Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=2

Match to Query 38753: 1967.918202 from(656.980010,3+) rtinseconds(2410) index(21295)

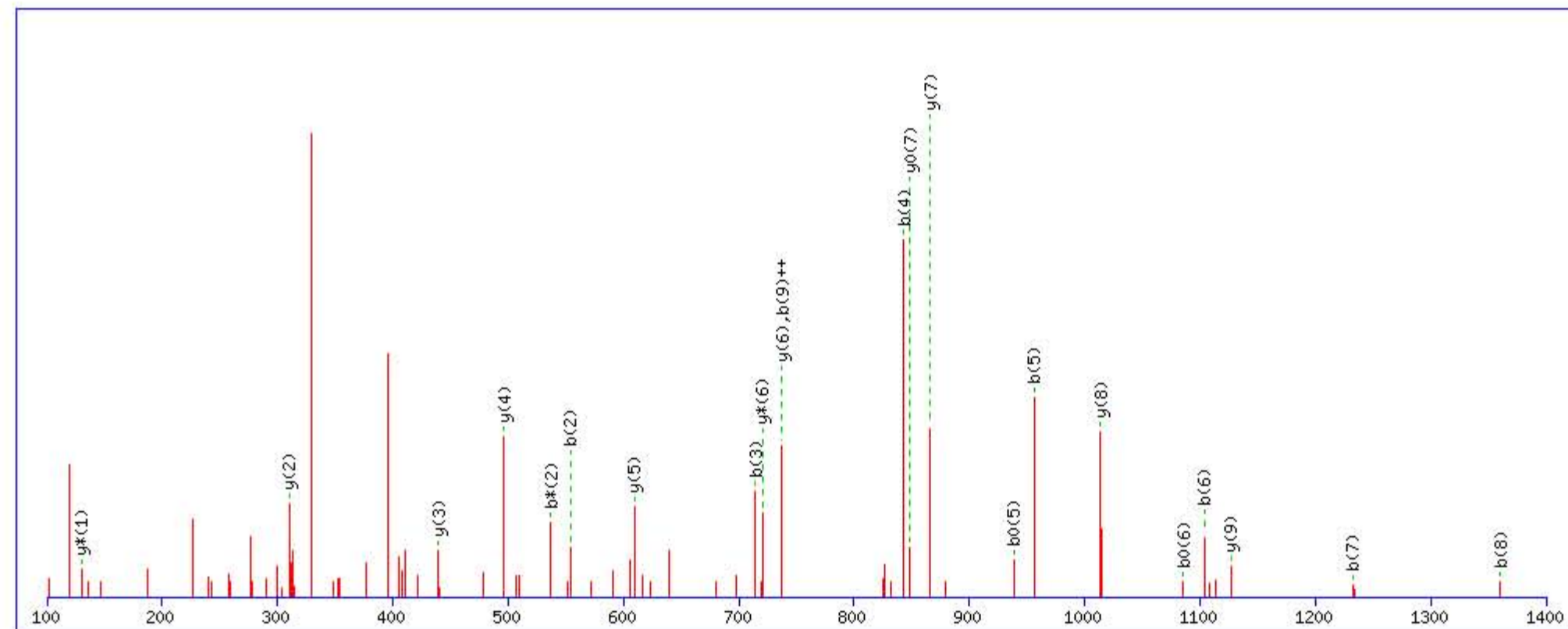
Title: Locus:1.1.1.3405.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1967.912094

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

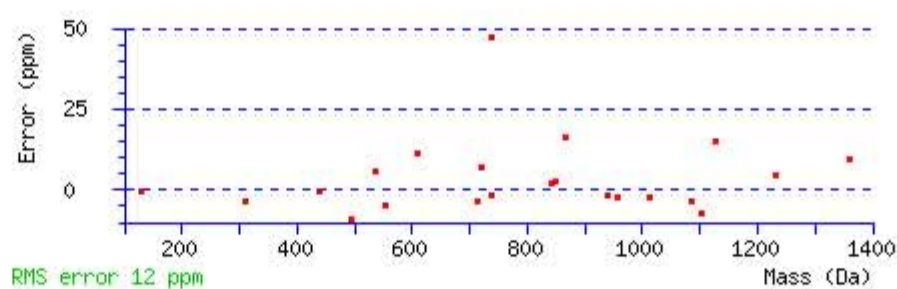
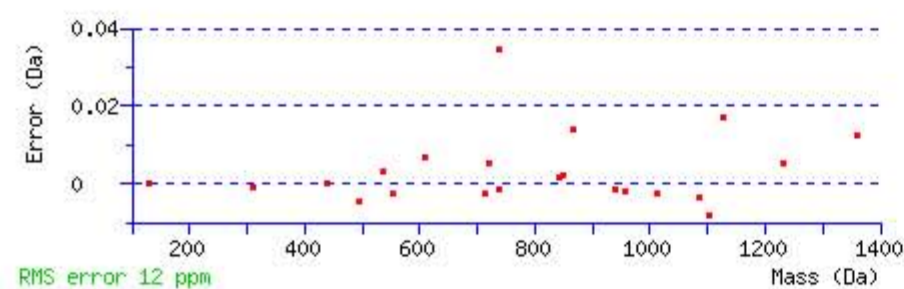
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 50 Expect: 2.5e-005

Matches : 22/134 fragment ions using 35 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							13
2	<b>554.275529</b>	277.641403	<b>537.248980</b>	269.128128			N	1529.694072	765.350674	1512.667523	756.837400	1511.683507	756.345392	12
3	<b>714.306178</b>	357.656727	697.279629	349.143453			C	1415.651145	708.329211	1398.624596	699.815936	1397.640580	699.323928	11
4	<b>843.348771</b>	422.178024	826.322222	413.664749	825.338206	413.172741	E	1255.620496	628.313886	1238.593947	619.800612	1237.609931	619.308604	10
5	<b>956.432835</b>	478.720056	939.406286	470.206781	<b>938.422270</b>	469.714773	L	<b>1126.577903</b>	563.792590	1109.551354	555.279315	1108.567338	554.787307	9
6	<b>1103.501249</b>	552.254263	1086.474700	543.740988	<b>1085.490684</b>	543.248980	F	<b>1013.493839</b>	507.250558	996.467290	498.737283	995.483274	498.245275	8
7	<b>1232.543842</b>	616.775559	1215.517293	608.262285	1214.533277	607.770277	E	<b>866.425425</b>	433.716351	849.398876	425.203076	<b>848.414860</b>	424.711068	7
8	<b>1360.602420</b>	680.804848	1343.575871	672.291574	1342.591855	671.799566	Q	<b>737.382832</b>	369.195054	<b>720.356283</b>	360.681780	719.372267	360.189772	6
9	1473.686484	<b>737.346880</b>	1456.659935	728.833606	1455.675919	728.341598	L	<b>609.324254</b>	305.165765	592.297705	296.652490	591.313689	296.160482	5
10	1530.707948	765.857612	1513.681399	757.344338	1512.697383	756.852330	G	<b>496.240190</b>	248.623733	479.213641	240.110458	478.229625	239.618450	4
11	1659.750541	830.378909	1642.723992	821.865634	1641.739976	821.373626	E	<b>439.218726</b>	220.113001	422.192177	211.599726	421.208161	211.107718	3
12	1822.813870	911.910573	1805.787321	903.397299	1804.803305	902.905291	Y	<b>310.176133</b>	155.591705	293.149584	147.078430			2
13							K	147.112804	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **QNCELFEQLGEYK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
50.2	1967.912094	0.006108	<a href="#">QNCELFEQLGEYK</a>
1.1	1967.930069	-0.011867	<a href="#">TQORMKEMESVMK</a>
1.1	1967.930069	-0.011867	<a href="#">TQORMKEMESVMK</a>

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

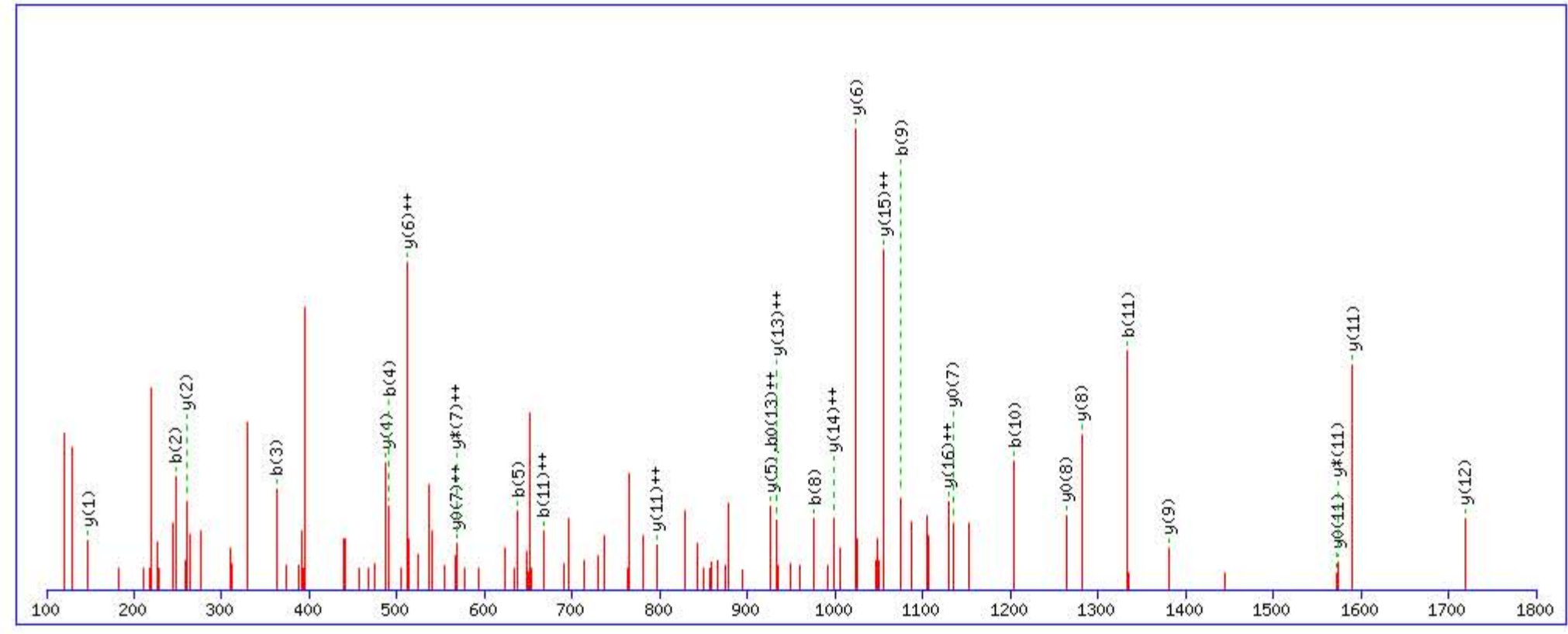
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VFDEFKPLVEEPQNLIK**  
 Found in **ALBU\_HUMAN**, Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=2

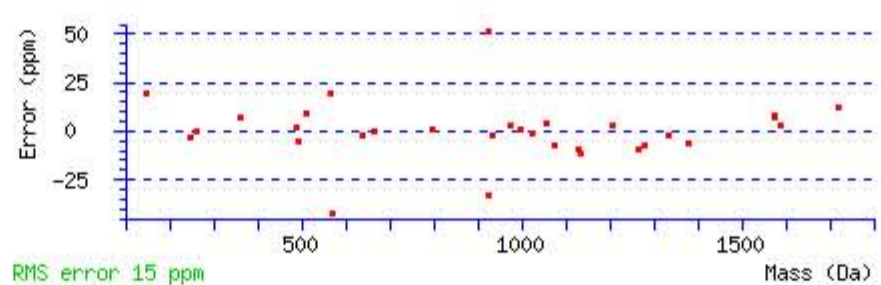
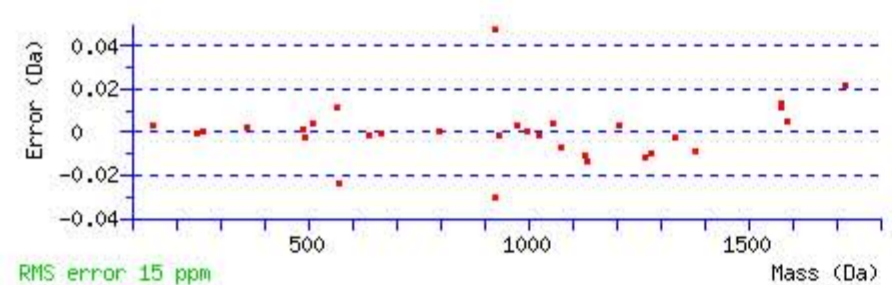
Match to Query 45897: 2355.253782 from(786.091870,3+) rtinseconds(2628) index(35430)  
 Title: Locus:1.1.1.3578.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide  $M_r(\text{calc})$ : 2355.254822  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q13 : Biotin:Thermo-21345 (Q)  
 Ions Score: 49 Expect: 0.0003  
 Matches : 31/166 fragment ions using 56 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							17
2	<b>247.144104</b>	124.075690					F	2257.193704	<b>1129.100490</b>	2240.167155	1120.587216	2239.183139	1120.095208	16
3	<b>362.171047</b>	181.589161			344.160482	172.583879	D	2110.125290	<b>1055.566283</b>	2093.098741	1047.053008	2092.114725	1046.561000	15
4	<b>491.213640</b>	246.110458			473.203075	237.105176	E	1995.098347	<b>998.052812</b>	1978.071798	989.539537	1977.087782	989.047529	14
5	<b>638.282054</b>	319.644665			620.271489	310.639383	F	1866.055754	<b>933.531515</b>	1849.029205	925.018241	1848.045189	924.526233	13
6	766.377017	383.692147	749.350468	375.178872	748.366452	374.686864	K	<b>1718.987340</b>	859.997308	1701.960791	851.484034	1700.976775	850.992026	12
7	863.429781	432.218529	846.403232	423.705254	845.419216	423.213246	P	<b>1590.892377</b>	<b>795.949827</b>	<b>1573.865828</b>	787.436552	<b>1572.881812</b>	786.944544	11
8	<b>976.513845</b>	488.760561	959.487296	480.247286	958.503280	479.755278	L	1493.839613	747.423445	1476.813064	738.910170	1475.829048	738.418162	10
9	<b>1075.582259</b>	538.294768	1058.555710	529.781493	1057.571694	529.289485	V	<b>1380.755549</b>	690.881413	1363.729000	682.368138	1362.744984	681.876130	9
10	<b>1204.624852</b>	602.816064	1187.598303	594.302790	1186.614287	593.810782	E	<b>1281.687135</b>	641.347206	1264.660586	632.833931	<b>1263.676570</b>	632.341923	8
11	<b>1333.667445</b>	<b>667.337361</b>	1316.640896	658.824086	1315.656880	658.332078	E	1152.644542	576.825909	1135.617993	<b>568.312635</b>	<b>1134.633977</b>	<b>567.820627</b>	7
12	1430.720209	715.863743	1413.693660	707.350468	1412.709644	706.858460	P	<b>1023.601949</b>	<b>512.304613</b>	1006.575400	503.791338			6
13	1869.945535	935.476406	1852.918986	926.963131	1851.934970	<b>926.471123</b>	Q	<b>926.549185</b>	463.778231	909.522636	455.264956			5
14	1983.988462	992.497869	1966.961913	983.984595	1965.977897	983.492587	N	<b>487.323859</b>	244.165568	470.297310	235.652293			4
15	2097.072526	1049.039901	2080.045977	1040.526627	2079.061961	1040.034619	L	373.280932	187.144104	356.254383	178.630830			3
16	2210.156590	1105.581933	2193.130041	1097.068659	2192.146025	1096.576651	I	<b>260.196868</b>	130.602072	243.170319	122.088798			2
17							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VFDEFKPLVEEPQNLIK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

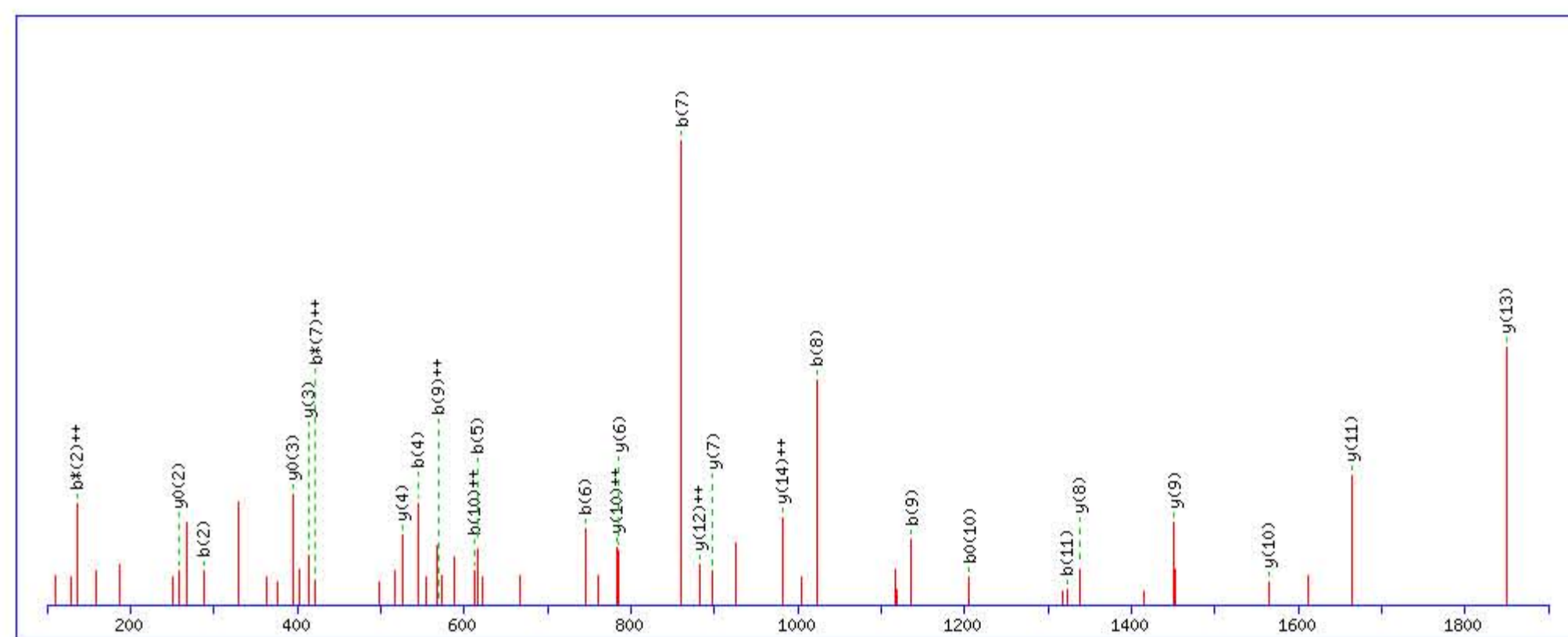
Score	$M_r(\text{calc})$ :	Delta	Sequence
49.4	2355.254822	-0.001040	<a href="#">VFDEFKPLVEEPQNLIK</a>

**Peptide View**

MS/MS Fragmentation of **RMPCAEDYLSVVLNQLCVLHEK**  
 Found in **ALBU\_HUMAN**, Serum albumin OS=Homo sapiens GN=ALB PE=1 SV=2

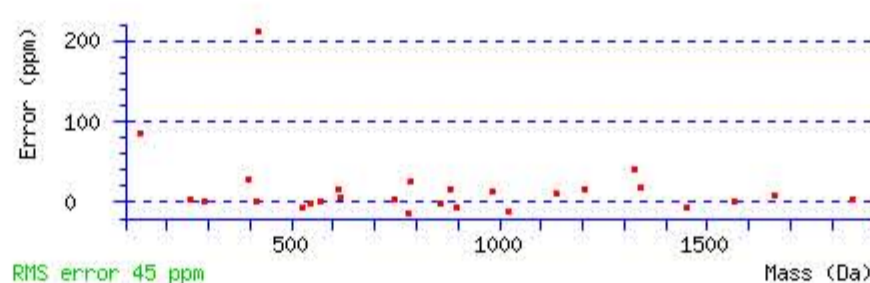
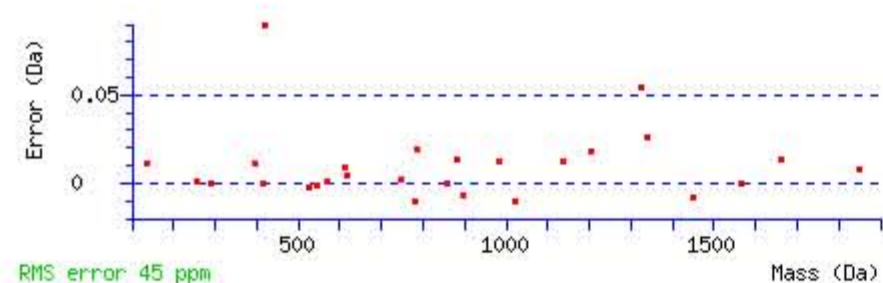
Match to Query 53895: 2984.474256 from(747.125840,4+) rtinseconds(3096) index(38676)  
 Title: Locus:1.1.1.3738.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2984.474426  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q15 : Biotin:Thermo-21345 (Q)  
 Ions Score: 69 Expect: 1.1e-006  
 Matches : 27/240 fragment ions using 41 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	157.108387	79.057831	140.081838	70.544557			R							22
2	<b>288.148872</b>	144.578074	271.122323	<b>136.064799</b>			M	2829.380614	1415.193945	2812.354065	1406.680670	2811.370049	1406.188662	21
3	385.201636	193.104456	368.175087	184.591181			P	2698.340129	1349.673702	2681.313580	1341.160428	2680.329564	1340.668420	20
4	<b>545.232285</b>	273.119781	528.205736	264.606506			C	2601.287365	1301.147320	2584.260816	1292.634046	2583.276800	1292.142038	19
5	<b>616.269399</b>	308.638338	599.242850	300.125063			A	2441.256716	1221.131996	2424.230167	1212.618721	2423.246151	1212.126713	18
6	<b>745.311992</b>	373.159634	728.285443	364.646360	727.301427	364.154352	E	2370.219602	1185.613439	2353.193053	1177.100164	2352.209037	1176.608156	17
7	<b>860.338935</b>	430.673106	843.312386	<b>422.159831</b>	842.328370	421.667823	D	2241.177009	1121.092142	2224.150460	1112.578868	2223.166444	1112.086860	16
8	<b>1023.402264</b>	512.204770	1006.375715	503.691496	1005.391699	503.199488	Y	2126.150066	1063.578671	2109.123517	1055.065396	2108.139501	1054.573388	15
9	<b>1136.486328</b>	<b>568.746802</b>	1119.459779	560.233528	1118.475763	559.741519	L	1963.086737	<b>982.047007</b>	1946.060188	973.533732	1945.076172	973.041724	14
10	1223.518356	<b>612.262816</b>	1206.491807	603.749542	<b>1205.507791</b>	603.257534	S	<b>1850.002673</b>	925.504975	1832.976124	916.991700	1831.992108	916.499692	13
11	<b>1322.586770</b>	661.797023	1305.560221	653.283749	1304.576205	652.791741	V	1762.970645	<b>881.988961</b>	1745.944096	873.475686	1744.960080	872.983678	12
12	1421.655184	711.331230	1404.628635	702.817956	1403.644619	702.325948	V	<b>1663.902231</b>	832.454754	1646.875682	823.941479	1645.891666	823.449471	11
13	1534.739248	767.873262	1517.712699	759.359988	1516.728683	758.867980	L	<b>1564.833817</b>	<b>782.920547</b>	1547.807268	774.407272	1546.823252	773.915264	10
14	1648.782175	824.894726	1631.755626	816.381451	1630.771610	815.889443	N	<b>1451.749753</b>	726.378515	1434.723204	717.865240	1433.739188	717.373232	9
15	2088.007501	1044.507388	2070.980952	1035.994114	2069.996936	1035.502106	Q	<b>1337.706826</b>	669.357051	1320.680277	660.843777	1319.696261	660.351769	8
16	2201.091565	1101.049421	2184.065016	1092.536146	2183.081000	1092.044138	L	<b>898.481500</b>	449.744388	881.454951	441.231114	880.470935	440.739106	7
17	2361.122214	1181.064745	2344.095665	1172.551470	2343.111649	1172.059462	C	<b>785.397436</b>	393.202356	768.370887	384.689081	767.386871	384.197073	6
18	2460.190628	1230.598952	2443.164079	1222.085677	2442.180063	1221.593669	V	625.366787	313.187032	608.340238	304.673757	607.356222	304.181749	5
19	2573.274692	1287.140984	2556.248143	1278.627709	2555.264127	1278.135701	L	<b>526.298373</b>	263.652825	509.271824	255.139550	508.287808	254.647542	4
20	2710.333604	1355.670440	2693.307055	1347.157165	2692.323039	1346.665157	H	<b>413.214309</b>	207.110793	396.187760	198.597518	<b>395.203744</b>	198.105510	3
21	2839.376197	1420.191736	2822.349648	1411.678462	2821.365632	1411.186454	E	276.155397	138.581337	259.128848	130.068062	<b>258.144832</b>	129.576054	2
22							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **RMPCAEDYLSVVLNQLCVLHEK**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
69.2	2984.474426	-0.000170	<a href="#">RMPCAEDYLSVVLNQLCVLHEK</a>
5.6	2984.466171	0.008085	<a href="#">QQMNGLTSLDASTVYGSSPALERQLR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **NHQSSYQTR**

Found in **PON1\_HUMAN**, Serum paraoxonase/arylesterase 1 OS=Homo sapiens GN=PON1 PE=1 SV=3

Match to Query 25312: 1430.671092 from(477.897640,3+) rtinseconds(1211) index(27513)

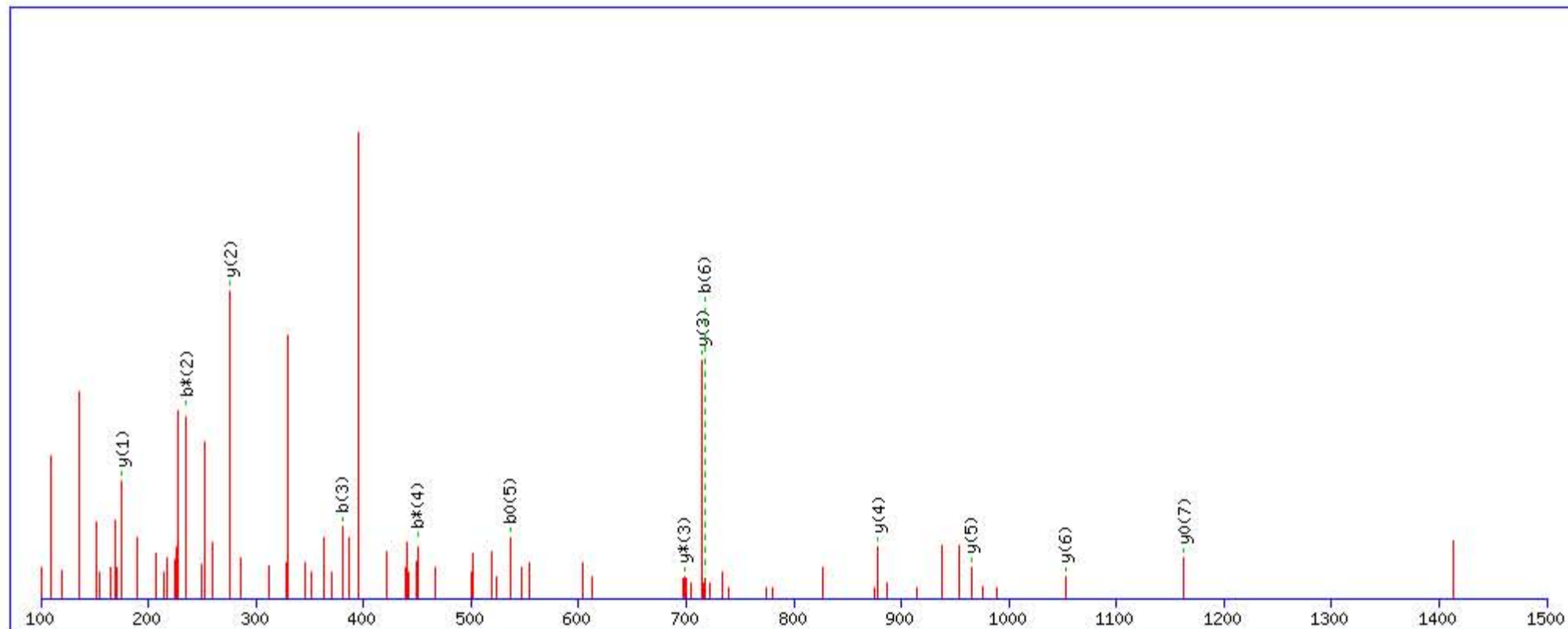
Title: Locus:1.1.1.3084.7 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1430.672470

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

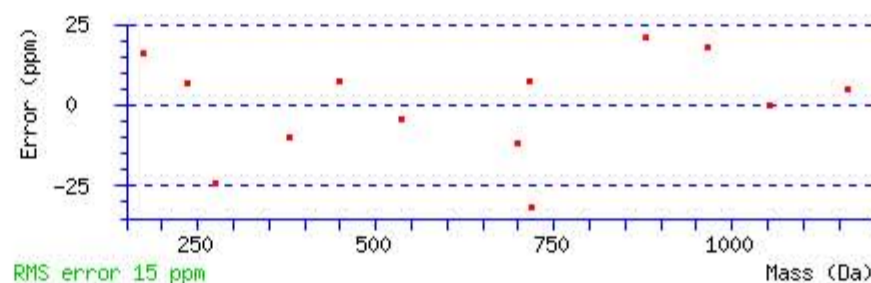
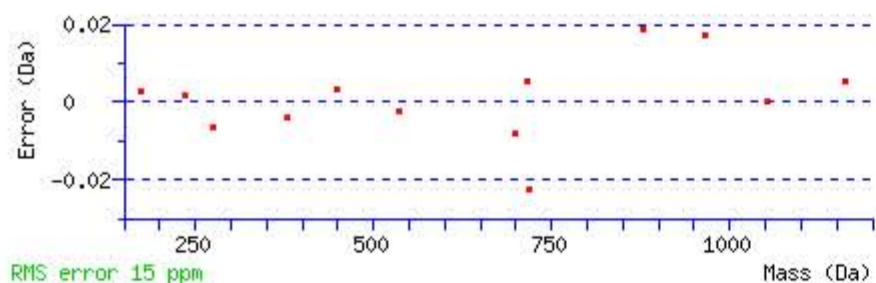
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.0079

Matches : 13/88 fragment ions using 30 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							9
2	252.109115	126.558195	235.082566	118.044921			H	1317.636832	659.322054	1300.610283	650.808780	1299.626267	650.316772	8
3	380.167693	190.587484	363.141144	182.074210			Q	1180.577920	590.792598	1163.551371	582.279324	1162.567355	581.787316	7
4	467.199721	234.103499	450.173172	225.590224	449.189156	225.098216	S	1052.519342	526.763309	1035.492793	518.250035	1034.508777	517.758027	6
5	554.231749	277.619513	537.205200	269.106238	536.221184	268.614230	S	965.487314	483.247295	948.460765	474.734021	947.476749	474.242013	5
6	717.295078	359.151177	700.268529	350.637903	699.284513	350.145895	Y	878.455286	439.731281	861.428737	431.218007	860.444721	430.725999	4
7	1156.520404	578.763840	1139.493855	570.250566	1138.509839	569.758558	Q	715.391957	358.199617	698.365408	349.686342	697.381392	349.194334	3
8	1257.568083	629.287680	1240.541534	620.774405	1239.557518	620.282397	T	276.166631	138.586953	259.140082	130.073679	258.156066	129.581671	2
9							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **NHQSSYQTR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
25.6	1430.672470	-0.001378	<a href="#">NHQSSYQTR</a>
3.2	1430.686371	-0.015279	<a href="#">LICESLYASGYR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **IQNILTEEPK**

Found in **PON1\_HUMAN**, Serum paraoxonase/arylesterase 1 OS=Homo sapiens GN=PON1 PE=1 SV=3

Match to Query 27033: 1494.814468 from(748.414510,2+) rtinseconds(2065) index(46421)

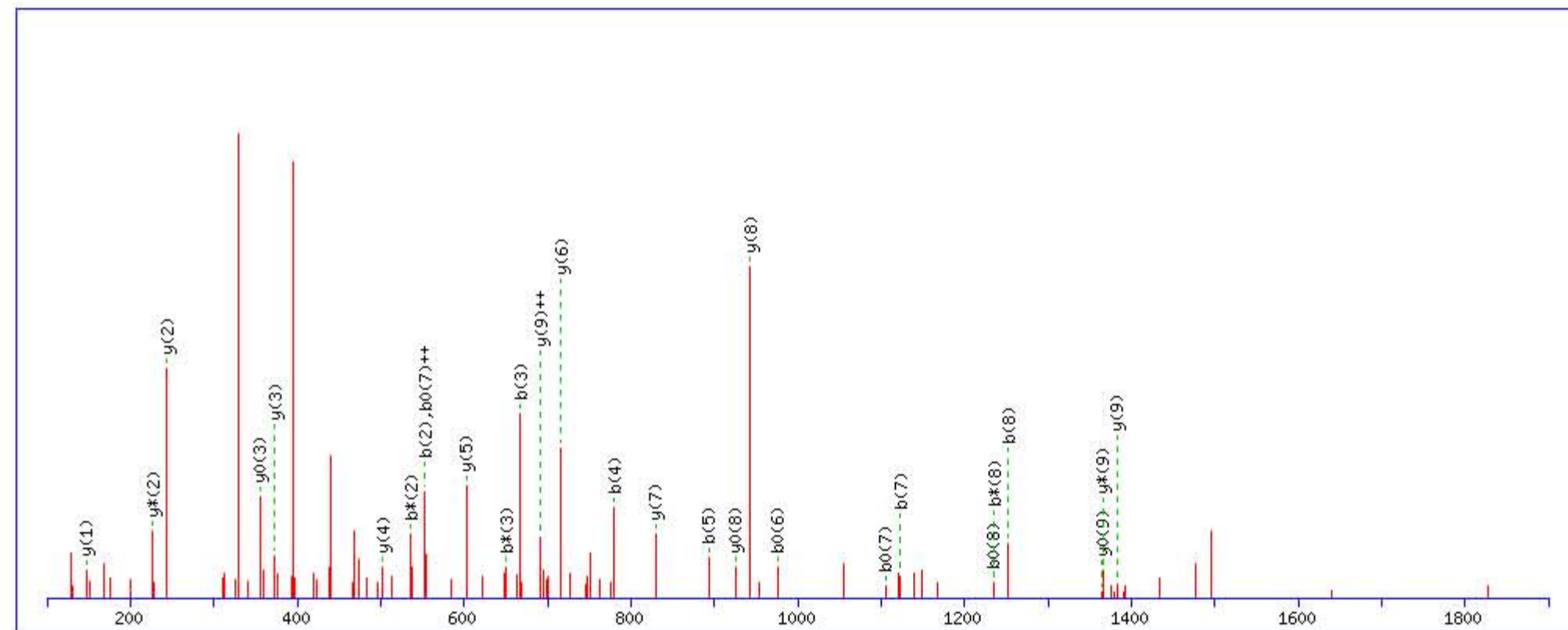
Title: Locus:1.1.1.3431.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1494.811569

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

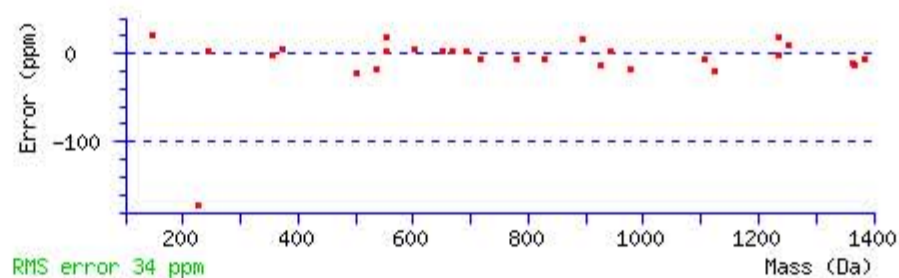
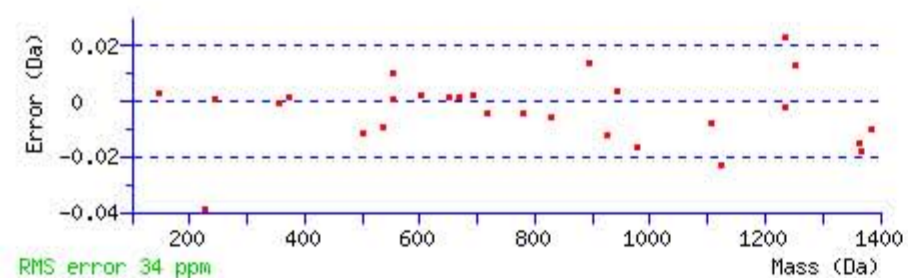
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 45 Expect: 0.00015

Matches : 28/92 fragment ions using 58 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							10
2	<b>553.316666</b>	277.161971	<b>536.290117</b>	268.648697			Q	<b>1382.734814</b>	691.871045	<b>1365.708265</b>	683.357771	<b>1364.724249</b>	682.865763	9
3	<b>667.359593</b>	334.183435	<b>650.333044</b>	325.670160			N	<b>943.509488</b>	472.258382	926.482939	463.745108	<b>925.498923</b>	463.253100	8
4	<b>780.443657</b>	390.725467	763.417108	382.212192			I	<b>829.466561</b>	415.236919	812.440012	406.723644	811.455996	406.231636	7
5	<b>893.527721</b>	447.267499	876.501172	438.754224			L	<b>716.382497</b>	358.694887	699.355948	350.181612	698.371932	349.689604	6
6	994.575400	497.791338	977.548851	489.278064	<b>976.564835</b>	488.786056	T	<b>603.298433</b>	302.152855	586.271884	293.639580	585.287868	293.147572	5
7	<b>1123.617993</b>	562.312635	1106.591444	553.799360	<b>1105.607428</b>	<b>553.307352</b>	E	<b>502.250754</b>	251.629015	485.224205	243.115741	484.240189	242.623733	4
8	<b>1252.660586</b>	626.833931	<b>1235.634037</b>	618.320657	<b>1234.650021</b>	617.828649	E	<b>373.208161</b>	187.107719	356.181612	178.594444	<b>355.197596</b>	178.102436	3
9	1349.713350	675.360313	1332.686801	666.847039	1331.702785	666.355031	P	<b>244.165568</b>	122.586422	<b>227.139019</b>	114.073148			2
10							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **IQNILTEEPK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
44.7	1494.811569	0.002899	<a href="#">IQNILTEEPK</a>
3.8	1494.809097	0.005371	<a href="#">LQLYVFVMR</a>
3.7	1494.805054	0.009414	<a href="#">KSIPLKMCYVTR</a>
3.0	1494.815430	-0.000962	<a href="#">KGSTKDSGHLQIPK</a>
2.6	1494.797668	0.016800	<a href="#">KMTHTAASPALPR</a>
1.9	1494.834030	-0.019562	<a href="#">QLNAIRDNIK</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **NHQSSYQTR**

Found in **PON1\_HUMAN**, Serum paraoxonase/arylesterase 1 OS=Homo sapiens GN=PON1 PE=1 SV=3

Match to Query 34407: 1741.833222 from(581.618350,3+) rtinseconds(1606) index(43539)

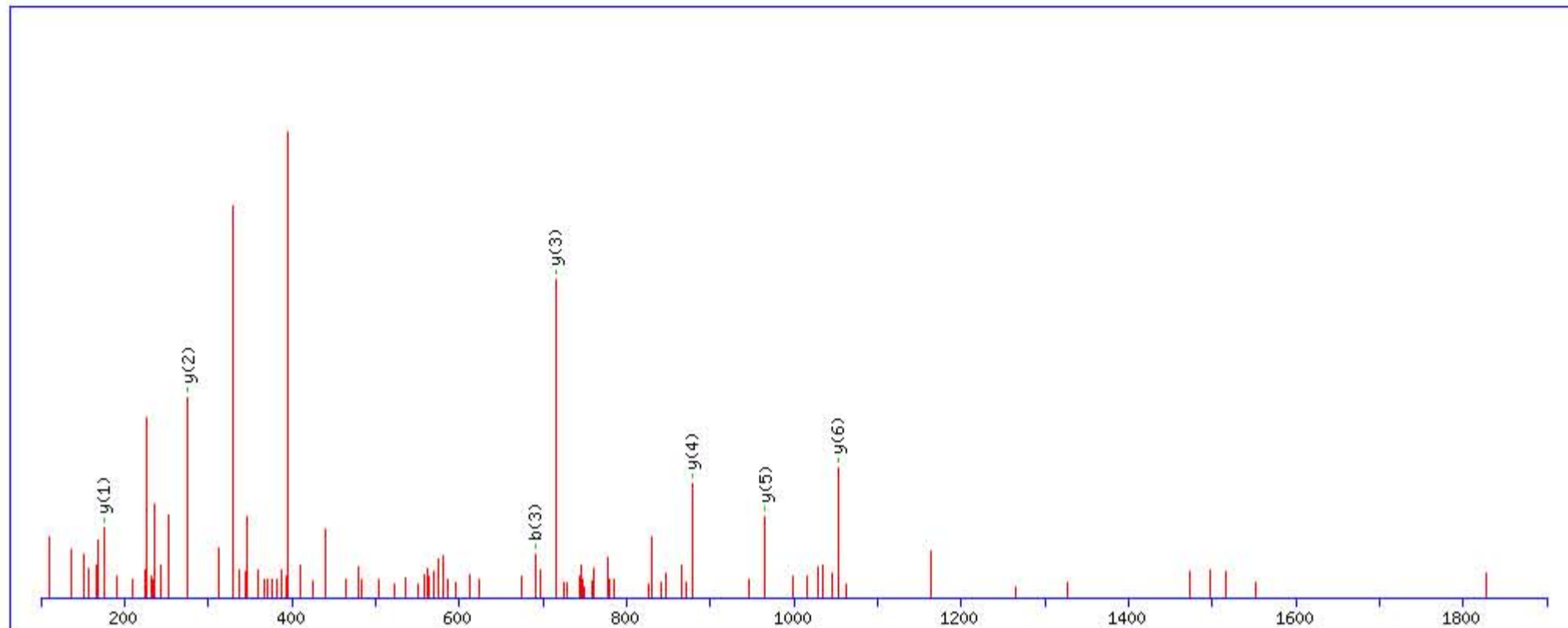
Title: Locus:1.1.1.3272.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1741.839218

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

Variable modifications:

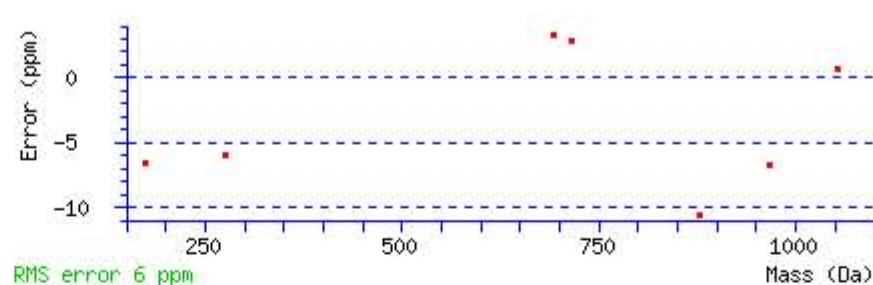
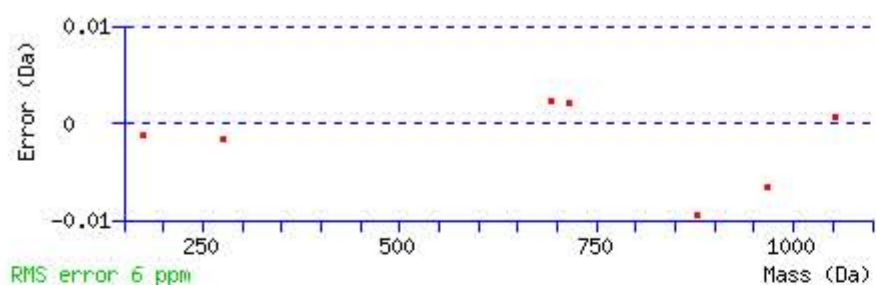
Q3 : Biotin:Thermo-21345 (Q)

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.049

Matches : 7/88 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							9
2	252.109115	126.558195	235.082566	118.044921			H	1628.803580	814.905428	1611.777031	806.392154	1610.793015	805.900146	8
3	<b>691.334441</b>	346.170859	674.307892	337.657584			Q	1491.744668	746.375972	1474.718119	737.862698	1473.734103	737.370690	7
4	778.366469	389.686872	761.339920	381.173598	760.355904	380.681590	S	<b>1052.519342</b>	526.763309	1035.492793	518.250035	1034.508777	517.758027	6
5	865.398497	433.202886	848.371948	424.689612	847.387932	424.197604	S	<b>965.487314</b>	483.247295	948.460765	474.734021	947.476749	474.242013	5
6	1028.461826	514.734551	1011.435277	506.221276	1010.451261	505.729268	Y	<b>878.455286</b>	439.731281	861.428737	431.218007	860.444721	430.725999	4
7	1467.687152	734.347214	1450.660603	725.833940	1449.676587	725.341932	Q	<b>715.391957</b>	358.199617	698.365408	349.686342	697.381392	349.194334	3
8	1568.734831	784.871054	1551.708282	776.357779	1550.724266	775.865771	T	<b>276.166631</b>	138.586953	259.140082	130.073679	258.156066	129.581671	2
9							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [NHQSSYQTR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
25.6	1741.839218	-0.005996	<a href="#">NHQSSYQTR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QAEISASAPTSLR**

Found in **SHBG\_HUMAN**, Sex hormone-binding globulin OS=Homo sapiens GN=SHBG PE=1 SV=2

Match to Query 32544: 1640.864388 from(821.439470,2+) rtinseconds(1926) index(4360)

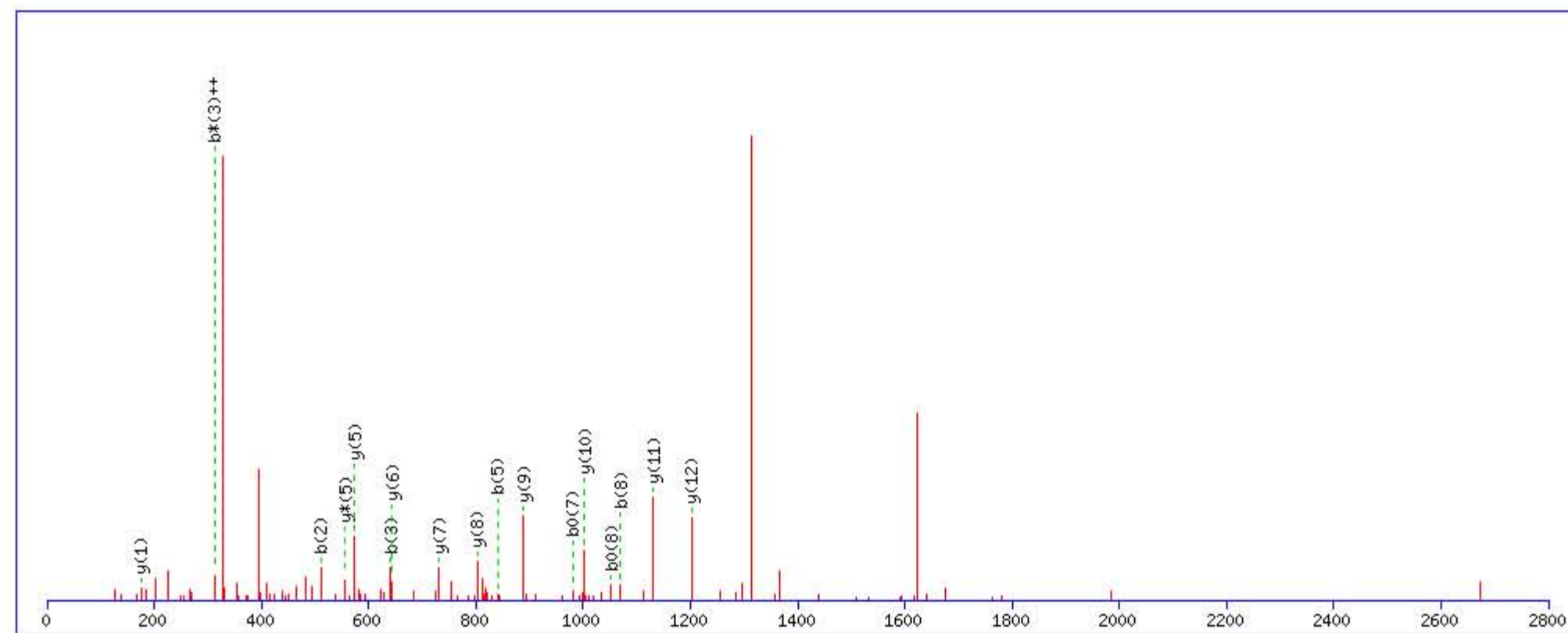
Title: Locus:1.1.1.3190.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1640.855560

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

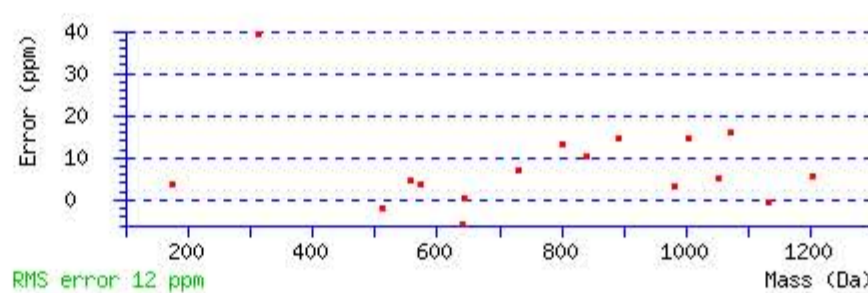
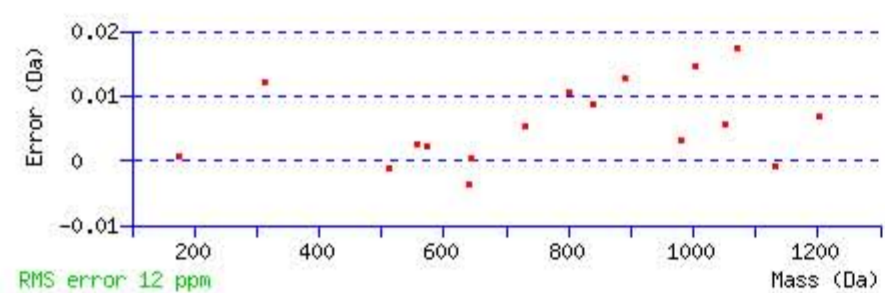
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 57 Expect: 5.9e-006

Matches : 17/136 fragment ions using 31 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							13
2	<b>511.269716</b>	256.138496	494.243167	247.625221			A	<b>1202.637542</b>	601.822409	1185.610993	593.309135	1184.626977	592.817126	12
3	<b>640.312309</b>	320.659793	623.285760	<b>312.146518</b>	622.301744	311.654510	E	<b>1131.600428</b>	566.303852	1114.573879	557.790578	1113.589863	557.298569	11
4	753.396373	377.201825	736.369824	368.688550	735.385808	368.196542	I	<b>1002.557835</b>	501.782556	985.531286	493.269281	984.547270	492.777273	10
5	<b>840.428401</b>	420.717839	823.401852	412.204564	822.417836	411.712556	S	<b>889.473771</b>	445.240523	872.447222	436.727249	871.463206	436.235241	9
6	911.465515	456.236396	894.438966	447.723121	893.454950	447.231113	A	<b>802.441743</b>	401.724510	785.415194	393.211235	784.431178	392.719227	8
7	998.497543	499.752410	981.470994	491.239135	<b>980.486978</b>	490.747127	S	<b>731.404629</b>	366.205953	714.378080	357.692678	713.394064	357.200670	7
8	<b>1069.534657</b>	535.270966	1052.508108	526.757692	<b>1051.524092</b>	526.265684	A	<b>644.372601</b>	322.689939	627.346052	314.176664	626.362036	313.684656	6
9	1166.587421	583.797349	1149.560872	575.284074	1148.576856	574.792066	P	<b>573.335487</b>	287.171382	<b>556.308938</b>	278.658107	555.324922	278.166099	5
10	1267.635100	634.321188	1250.608551	625.807914	1249.624535	625.315905	T	476.282723	238.644999	459.256174	230.131725	458.272158	229.639717	4
11	1354.667128	677.837202	1337.640579	669.323928	1336.656563	668.831920	S	375.235044	188.121160	358.208495	179.607885	357.224479	179.115877	3
12	1467.751192	734.379234	1450.724643	725.865960	1449.740627	725.373951	L	288.203016	144.605146	271.176467	136.091871			2
13							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **QAEISASAPTSLR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
57.1	1640.855560	0.008828	<a href="#">QAEISASAPTSLR</a>
1.3	1640.884521	-0.020133	<a href="#">EAQKKPAESQKIER</a>
1.2	1640.848160	0.016228	<a href="#">LQRILEGEGNQEAGK</a>
0.8	1640.880707	-0.016319	<a href="#">KLSPELMNQLVPEK</a>

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



# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **GHQLQLDYFGACK**

Found in **SPRL1\_HUMAN**, SPARC-like protein 1 OS=Homo sapiens GN=SPARCL1 PE=1 SV=2

Match to Query 36560: 1846.887072 from(616.636300,3+) rtinseconds(2147) index(46895)

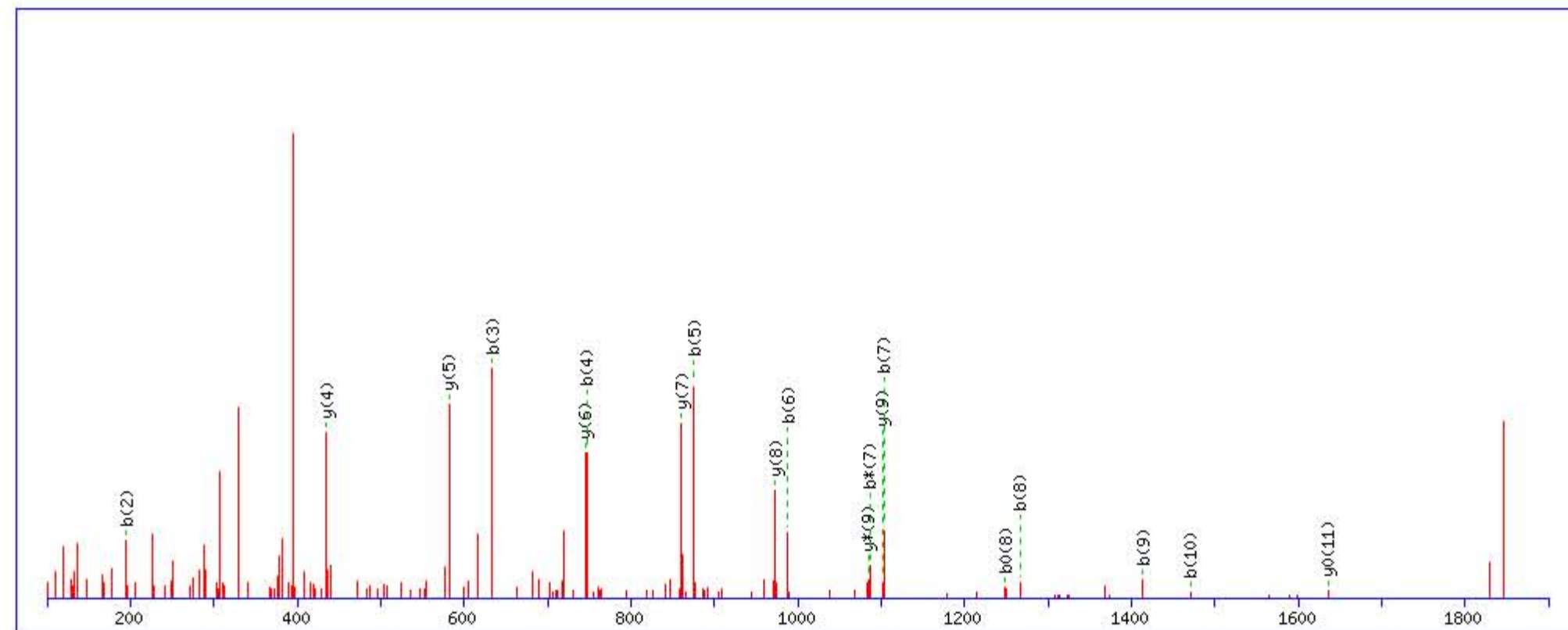
Title: Locus:1.1.1.3460.5 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1846.885849

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

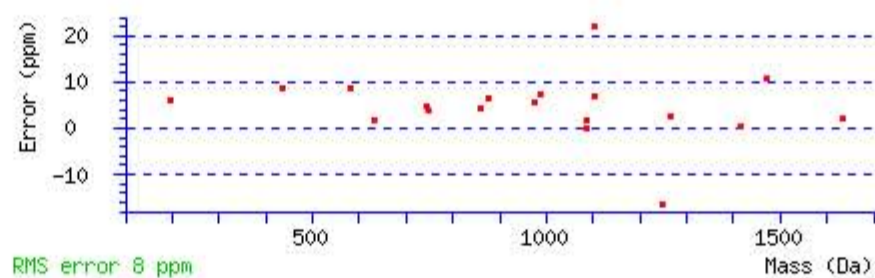
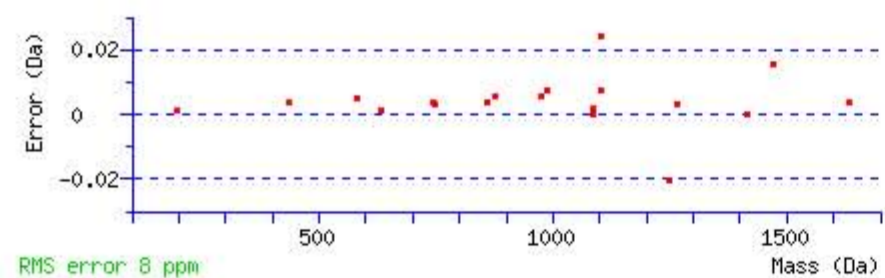
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 56 Expect: 1.2e-005

Matches : 19/116 fragment ions using 33 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							13
2	<b>195.087652</b>	98.047464					H	1790.871661	895.939469	1773.845112	887.426194	1772.861096	886.934186	12
3	<b>634.312978</b>	317.660127	617.286429	309.146853			Q	1653.812749	827.410013	1636.786200	818.896738	<b>1635.802184</b>	818.404730	11
4	<b>747.397042</b>	374.202159	730.370493	365.688885			L	1214.587423	607.797350	1197.560874	599.284075	1196.576858	598.792067	10
5	<b>875.455620</b>	438.231448	858.429071	429.718174			Q	<b>1101.503359</b>	551.255318	<b>1084.476810</b>	542.742043	1083.492794	542.250035	9
6	<b>988.539684</b>	494.773480	971.513135	486.260206			L	<b>973.444781</b>	487.226029	956.418232	478.712754	955.434216	478.220746	8
7	<b>1103.566627</b>	552.286952	<b>1086.540078</b>	543.773677	1085.556062	543.281669	D	<b>860.360717</b>	430.683997	843.334168	422.170722	842.350152	421.678714	7
8	<b>1266.629956</b>	633.818616	1249.603407	625.305342	<b>1248.619391</b>	624.813334	Y	<b>745.333774</b>	373.170525	728.307225	364.657251			6
9	<b>1413.698370</b>	707.352823	1396.671821	698.839549	1395.687805	698.347541	F	<b>582.270445</b>	291.638861	565.243896	283.125586			5
10	<b>1470.719834</b>	735.863555	1453.693285	727.350281	1452.709269	726.858273	G	<b>435.202031</b>	218.104653	418.175482	209.591379			4
11	1541.756948	771.382112	1524.730399	762.868838	1523.746383	762.376830	A	378.180567	189.593921	361.154018	181.080647			3
12	1701.787597	851.397437	1684.761048	842.884162	1683.777032	842.392154	C	307.143453	154.075365	290.116904	145.562090			2
13							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **GHQLQLDYFGACK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
55.8	1846.885849	0.001223	<a href="#">GHQLQLDYFGACK</a>
30.0	1846.885849	0.001223	<a href="#">GHQLQLDYFGACK</a>
3.5	1846.906082	-0.019010	<a href="#">DLNTGVFNNQENELK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SIPTCTDFEVIQFPLR**

Found in **SPRL1\_HUMAN**, SPARC-like protein 1 OS=Homo sapiens GN=SPARCL1 PE=1 SV=2

Match to Query 43856: 2233.134462 from(745.385430,3+) rtinseconds(2822) index(50941)

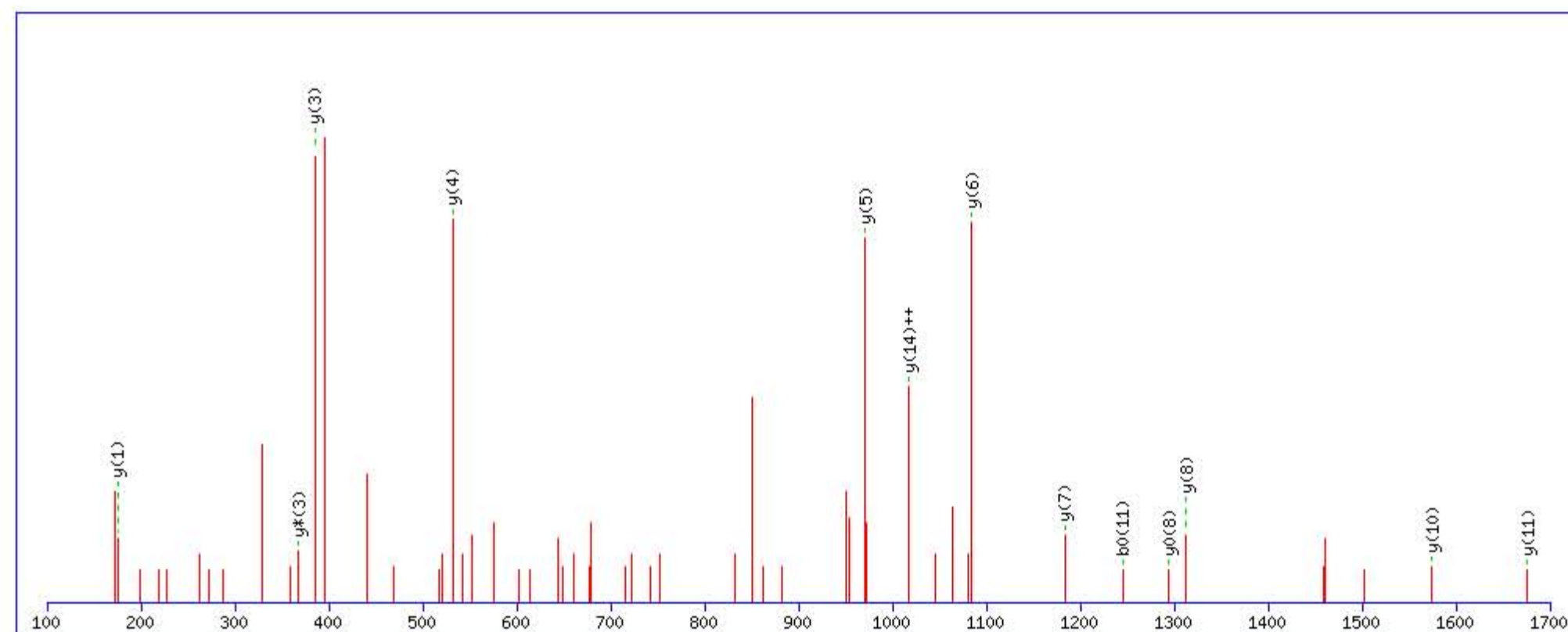
Title: Locus:1.1.1.3693.11 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2233.127548

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

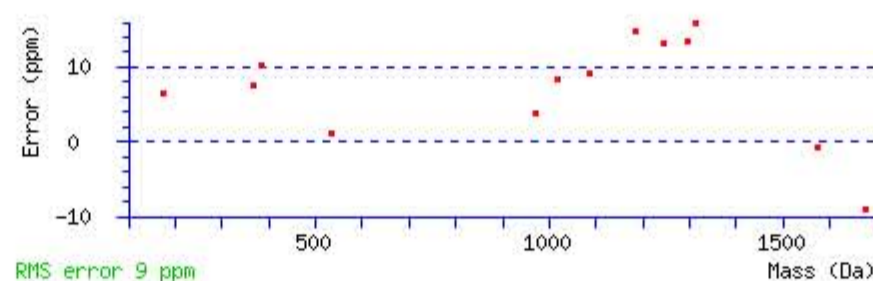
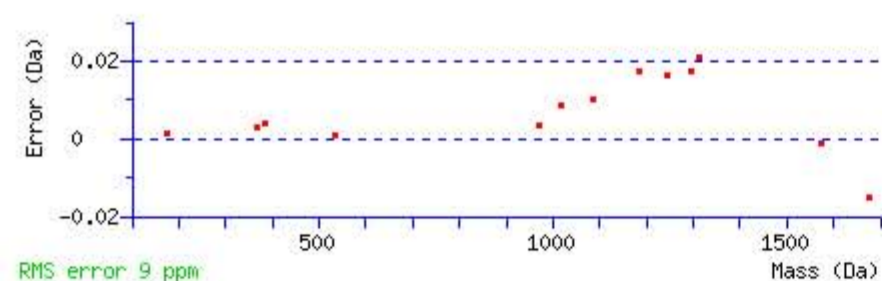
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 39 Expect: 0.00052

Matches : 13/144 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							16
2	201.123368	101.065322			183.112803	92.060039	I	2147.102783	1074.055029	2130.076234	1065.541755	2129.092218	1065.049747	15
3	298.176132	149.591704			280.165567	140.586422	P	2034.018719	1017.512998	2016.992170	1008.999723	2016.008154	1008.507715	14
4	399.223811	200.115544			381.213246	191.110261	T	1936.965955	968.986616	1919.939406	960.473341	1918.955390	959.981333	13
5	559.254460	280.130868			541.243895	271.125586	C	1835.918276	918.462776	1818.891727	909.949502	1817.907711	909.457494	12
6	660.302139	330.654708			642.291574	321.649425	T	1675.887627	838.447452	1658.861078	829.934177	1657.877062	829.442169	11
7	775.329082	388.168179			757.318517	379.162897	D	1574.839948	787.923612	1557.813399	779.410338	1556.829383	778.918330	10
8	922.397496	461.702386			904.386931	452.697104	F	1459.813005	730.410141	1442.786456	721.896866	1441.802440	721.404858	9
9	1051.440089	526.223683			1033.429524	517.218400	E	1312.744591	656.875934	1295.718042	648.362659	1294.734026	647.870651	8
10	1150.508503	575.757890			1132.497938	566.752607	V	1183.701998	592.354637	1166.675449	583.841363			7
11	1263.592567	632.299921			1245.582002	623.294639	I	1084.633584	542.820430	1067.607035	534.307156			6
12	1702.817893	851.912585	1685.791344	843.399310	1684.807328	842.907302	Q	971.549520	486.278398	954.522971	477.765124			5
13	1849.886307	925.446792	1832.859758	916.933517	1831.875742	916.441509	F	532.324194	266.665735	515.297645	258.152461			4
14	1946.939071	973.973174	1929.912522	965.459899	1928.928506	964.967891	P	385.255780	193.131528	368.229231	184.618253			3
15	2060.023135	1030.515205	2042.996586	1022.001931	2042.012570	1021.509923	L	288.203016	144.605146	271.176467	136.091871			2
16							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [SIPTCTDFEVIQFPLR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
39.1	2233.127548	0.006914	<a href="#">SIPTCTDFEVIQFPLR</a>
3.9	2233.141861	-0.007399	<a href="#">FELPLDIPEEEARYWAKK</a>
0.4	2233.108704	0.025758	<a href="#">AQLGSWGKGGSSGGAKASETDALR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **QELAVFCSPEPPAK**

Found in **TLN1\_HUMAN**, Talin-1 OS=Homo sapiens GN=TLN1 PE=1 SV=3

Match to Query 37214: 1882.938882 from(628.653570,3+) rtinseconds(2259) index(47613)

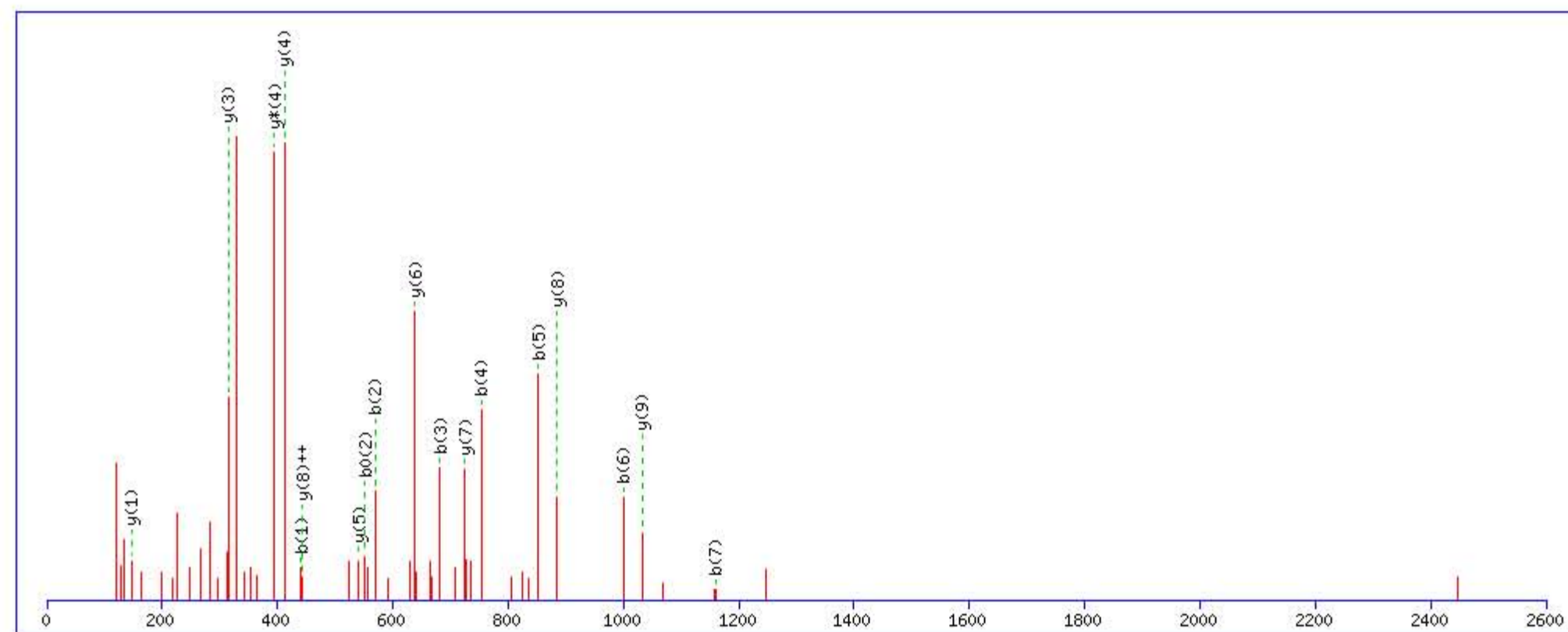
Title: Locus:1.1.1.3499.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 0 to 2600 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1882.932114

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

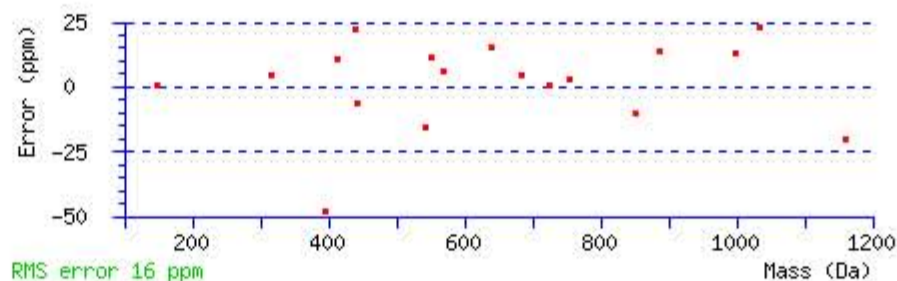
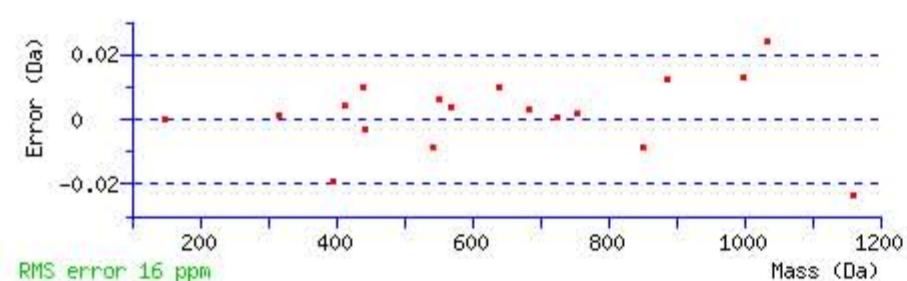
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 63 Expect: 1.7e-006

Matches : 18/146 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							14
2	569.275195	285.141236	552.248646	276.627961	551.264630	276.135953	E	1444.714079	722.860678	1427.687530	714.347403	1426.703514	713.855395	13
3	682.359259	341.683268	665.332710	333.169993	664.348694	332.677985	L	1315.671486	658.339381	1298.644937	649.826107	1297.660921	649.334098	12
4	753.396373	377.201825	736.369824	368.688550	735.385808	368.196542	A	1202.587422	601.797349	1185.560873	593.284075	1184.576857	592.792067	11
5	852.464787	426.736032	835.438238	418.222757	834.454222	417.730749	V	1131.550308	566.278792	1114.523759	557.765518	1113.539743	557.273510	10
6	999.533201	500.270239	982.506652	491.756964	981.522636	491.264956	F	1032.481894	516.744585	1015.455345	508.231311	1014.471329	507.739303	9
7	1159.563850	580.285563	1142.537301	571.772289	1141.553285	571.280281	C	885.413480	443.210378	868.386931	434.697104	867.402915	434.205096	8
8	1246.595878	623.801577	1229.569329	615.288303	1228.585313	614.796295	S	725.382831	363.195054	708.356282	354.681779	707.372266	354.189771	7
9	1343.648642	672.327959	1326.622093	663.814685	1325.638077	663.322677	P	638.350803	319.679040	621.324254	311.165765	620.340238	310.673757	6
10	1472.691235	736.849256	1455.664686	728.335981	1454.680670	727.843973	E	541.298039	271.152658	524.271490	262.639383	523.287474	262.147375	5
11	1569.743999	785.375638	1552.717450	776.862363	1551.733434	776.370355	P	412.255446	206.631361	395.228897	198.118087			4
12	1666.796763	833.902020	1649.770214	825.388745	1648.786198	824.896737	P	315.202682	158.104979	298.176133	149.591704			3
13	1737.833877	869.420577	1720.807328	860.907302	1719.823312	860.415294	A	218.149918	109.578597	201.123369	101.065322			2
14							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **QELAVFCSPEPPAK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
62.6	1882.932114	0.006768	<a href="#">QELAVFCSPEPPAK</a>
1.1	1882.949875	-0.010993	<a href="#">ISGHVGIIFSMSYLESK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LDTLAQEVALLK**

Found in **TETN\_HUMAN**, Tetraectin OS=Homo sapiens GN=CLEC3B PE=1 SV=3

Match to Query 31588: 1623.942548 from(812.978550,2+) rtinseconds(2629) index(8320)

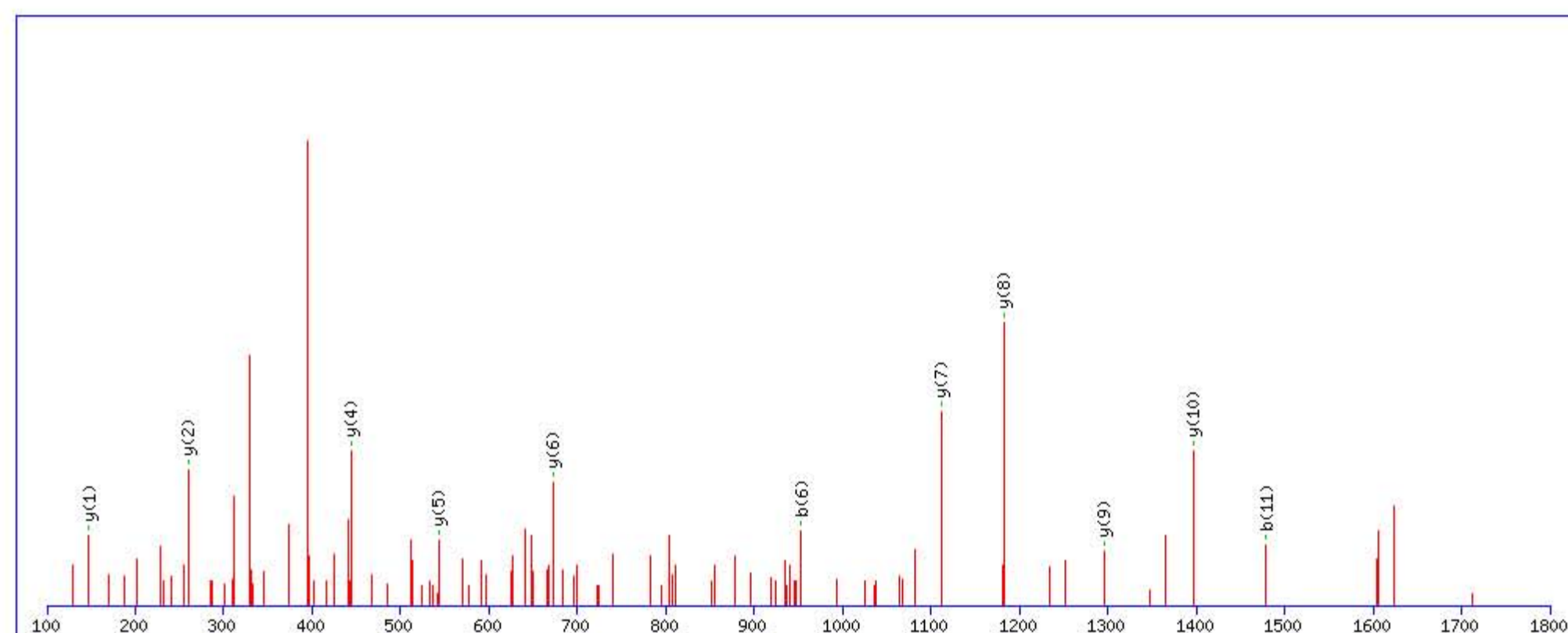
Title: Locus:1.1.1.3435.19 File:"2013-07-02 CLN FXIII 180 min 3rd F 1.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1623.926941

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

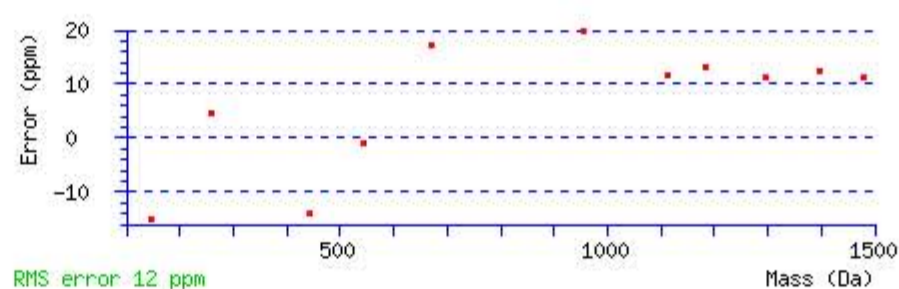
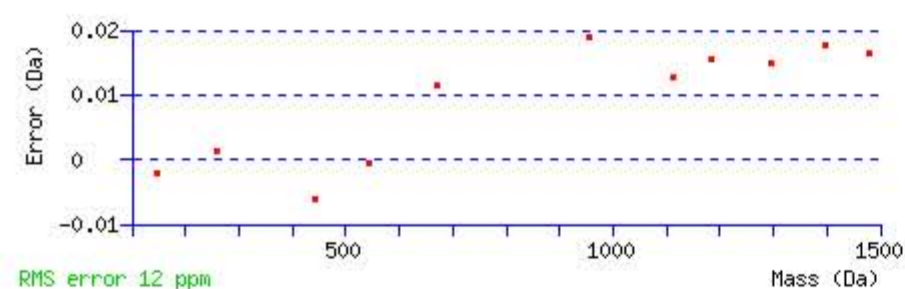
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 83 Expect: 3.9e-008

Matches : 11/110 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							12
2	229.118283	115.062779			211.107718	106.057497	D	1511.850179	756.428728	1494.823630	747.915453	1493.839614	747.423445	11
3	330.165962	165.586619			312.155397	156.581336	T	<b>1396.823236</b>	698.915256	1379.796687	690.401982	1378.812671	689.909973	10
4	443.250026	222.128651			425.239461	213.123369	L	<b>1295.775557</b>	648.391416	1278.749008	639.878142	1277.764992	639.386134	9
5	514.287140	257.647208			496.276575	248.641926	A	<b>1182.691493</b>	591.849385	1165.664944	583.336110	1164.680928	582.844102	8
6	<b>953.512466</b>	477.259871	936.485917	468.746597	935.501901	468.254589	Q	<b>1111.654379</b>	556.330827	1094.627830	547.817553	1093.643814	547.325545	7
7	1082.555059	541.781168	1065.528510	533.267893	1064.544494	532.775885	E	<b>672.429053</b>	336.718165	655.402504	328.204890	654.418488	327.712882	6
8	1181.623473	591.315375	1164.596924	582.802100	1163.612908	582.310092	V	<b>543.386460</b>	272.196868	526.359911	263.683593			5
9	1252.660587	626.833932	1235.634038	618.320657	1234.650022	617.828649	A	<b>444.318046</b>	222.662661	427.291497	214.149386			4
10	1365.744651	683.375964	1348.718102	674.862689	1347.734086	674.370681	L	373.280932	187.144104	356.254383	178.630829			3
11	<b>1478.828715</b>	739.917995	1461.802166	731.404721	1460.818150	730.912713	L	<b>260.196868</b>	130.602072	243.170319	122.088797			2
12							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **LDTLAQEVALLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
82.6	1623.926941	0.015607	<a href="#">LDTLAQEVALLK</a>
5.5	1623.919556	0.022992	<a href="#">EVSPEPIVSTVARLK</a>
5.3	1623.928268	0.014280	<a href="#">EVQRLYHKLK</a>
2.8	1623.944702	-0.002154	<a href="#">EVELIQVTPKDIK</a>
1.9	1623.942001	0.000547	<a href="#">ESKPGGLPRRSSIIK</a>
1.9	1623.919540	0.023008	<a href="#">KLSLGTAEPQVKEPK</a>
1.5	1623.934799	0.007749	<a href="#">FIQKFSQASSKILK</a>
1.3	1623.955933	-0.013385	<a href="#">GAAVNLTIVTPEKAIK</a>
1.0	1623.957245	-0.014697	<a href="#">ERQLLWLELLRR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **ETIEQEK**

Found in **TYB10\_HUMAN**, Thymosin beta-10 OS=Homo sapiens GN=TMSB10 PE=1 SV=2

Match to Query 17448: 1186.587848 from(594.301200,2+) rtinseconds(1459) index(57724)

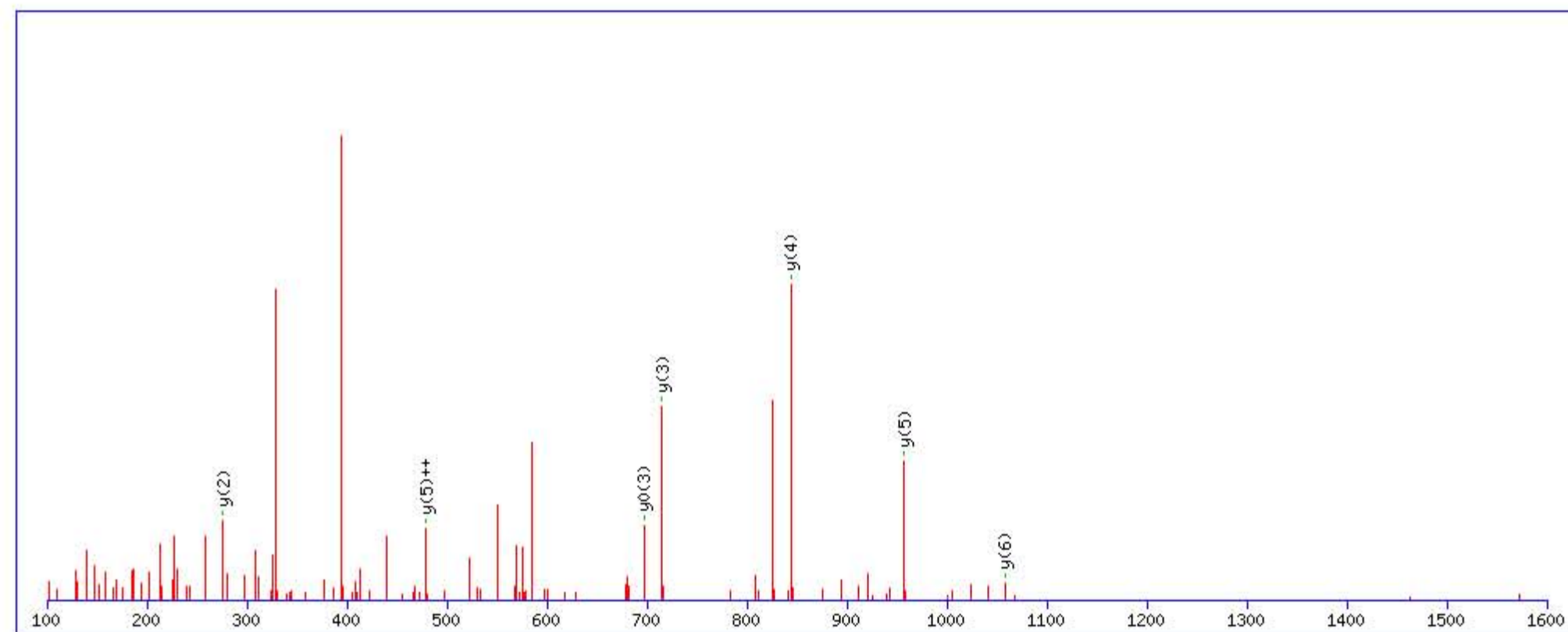
Title: Locus:1.1.1.1419.14 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1186.590347

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

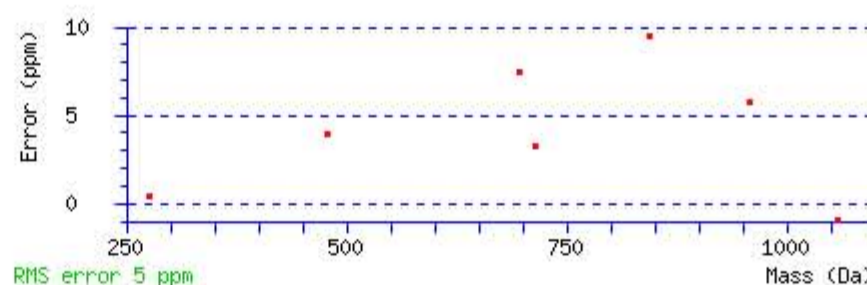
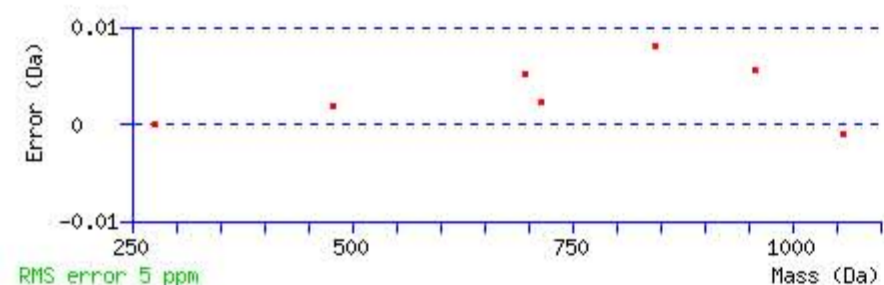
Variable modifications:

Q5 : Biotin:Thermo-21345 (Q)

Ions Score: 38 Expect: 0.0018

Matches : 7/62 fragment ions using 10 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							7
2	231.097548	116.052412			213.086983	107.047130	T	<b>1058.555059</b>	529.781168	1041.528510	521.267893	1040.544494	520.775885	6
3	344.181612	172.594444			326.171047	163.589162	I	<b>957.507380</b>	<b>479.257328</b>	940.480831	470.744054	939.496815	470.252046	5
4	473.224205	237.115741			455.213640	228.110458	E	<b>844.423316</b>	422.715296	827.396767	414.202022	826.412751	413.710014	4
5	912.449531	456.728404	895.422982	448.215129	894.438966	447.723121	Q	<b>715.380723</b>	358.194000	698.354174	349.680725	<b>697.370158</b>	349.188717	3
6	1041.492124	521.249700	1024.465575	512.736426	1023.481559	512.244418	E	<b>276.155397</b>	138.581336	259.128848	130.068062	258.144832	129.576054	2
7							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **ETIEQEK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
38.3	1186.590347	-0.002499	<a href="#">ETIEQEK</a>
8.5	1186.572586	0.015262	<a href="#">KEMMKETFK</a>
6.0	1186.601578	-0.013730	<a href="#">TNEKQEK</a>
6.0	1186.601578	-0.013730	<a href="#">QEQKESK</a>
5.2	1186.586960	0.000888	<a href="#">KLYSQYEEK</a>
5.0	1186.605392	-0.017544	<a href="#">KEAEQEAARR</a>
4.8	1186.572586	0.015262	<a href="#">KEMMKETFK</a>
4.8	1186.591721	-0.003873	<a href="#">KTVGFHSHMK</a>
4.6	1186.590347	-0.002499	<a href="#">QEEELTK</a>
3.4	1186.605408	-0.017560	<a href="#">EVRQENREK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **SPYQLVLQHSR**

Found in **BGH3\_HUMAN**, Transforming growth factor-beta-induced protein ig-h3 OS=Homo sapiens GN=TGFB1 PE=1 SV=1

Match to Query 32441: 1637.864832 from(546.962220,3+) rtinseconds(1929) index(31304)

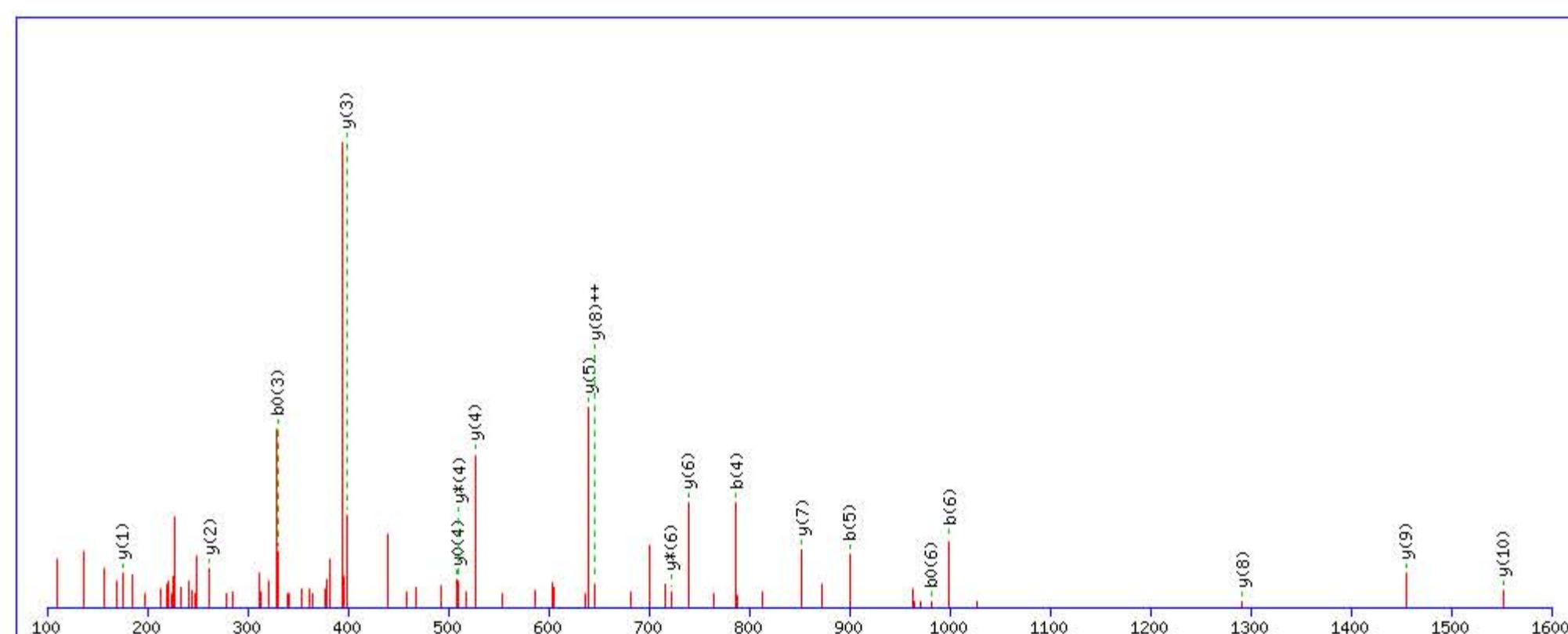
Title: Locus:1.1.1.3335.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1637.871170

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

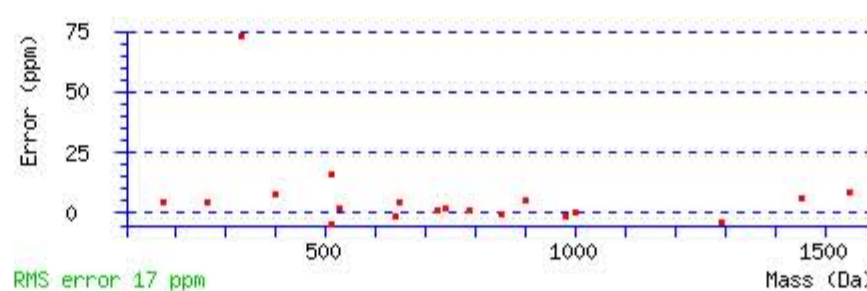
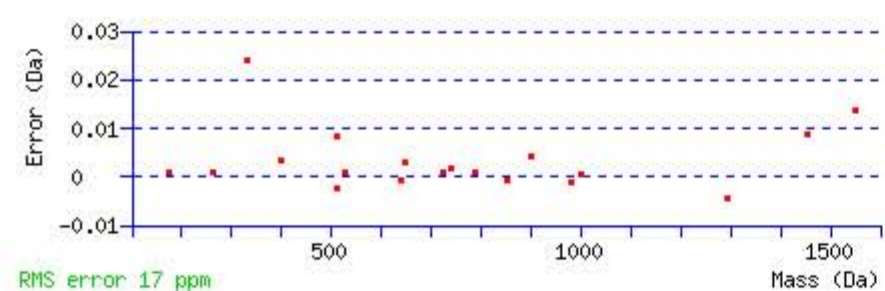
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 56 Expect: 6.9e-006

Matches : 19/112 fragment ions using 40 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							11
2	185.092068	93.049672			167.081503	84.044389	P	1551.846431	776.426853	1534.819882	767.913579	1533.835866	767.421571	10
3	348.155397	174.581336			330.144832	165.576054	Y	1454.793667	727.900471	1437.767118	719.387197	1436.783102	718.895189	9
4	787.380723	394.194000	770.354174	385.680725	769.370158	385.188717	Q	1291.730338	646.368807	1274.703789	637.855532	1273.719773	637.363524	8
5	900.464787	450.736032	883.438238	442.222757	882.454222	441.730749	L	852.505012	426.756144	835.478463	418.242869	834.494447	417.750861	7
6	999.533201	500.270239	982.506652	491.756964	981.522636	491.264956	V	739.420948	370.214112	722.394399	361.700837	721.410383	361.208829	6
7	1112.617265	556.812270	1095.590716	548.298996	1094.606700	547.806988	L	640.352534	320.679905	623.325985	312.166630	622.341969	311.674622	5
8	1240.675843	620.841559	1223.649294	612.328285	1222.665278	611.836277	Q	527.268470	264.137873	510.241921	255.624598	509.257905	255.132590	4
9	1377.734755	689.371015	1360.708206	680.857741	1359.724190	680.365733	H	399.209892	200.108584	382.183343	191.595309	381.199327	191.103301	3
10	1464.766783	732.887029	1447.740234	724.373755	1446.756218	723.881747	S	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SPYQLVLQHSR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
55.8	1637.871170	-0.006338	<a href="#">SPYQLVLQHSR</a>
3.4	1637.871170	-0.006338	<a href="#">SPYQLVLQHSR</a>
0.7	1637.855911	0.008921	<a href="#">RTAYSGVPMITLSSR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **NLHDLVDSDNQLER**

Found in **VASN\_HUMAN**, Vasorin OS=Homo sapiens GN=VASN PE=1 SV=1

Match to Query 38911: 1977.948522 from(660.323450,3+) rtinseconds(1954) index(18785)

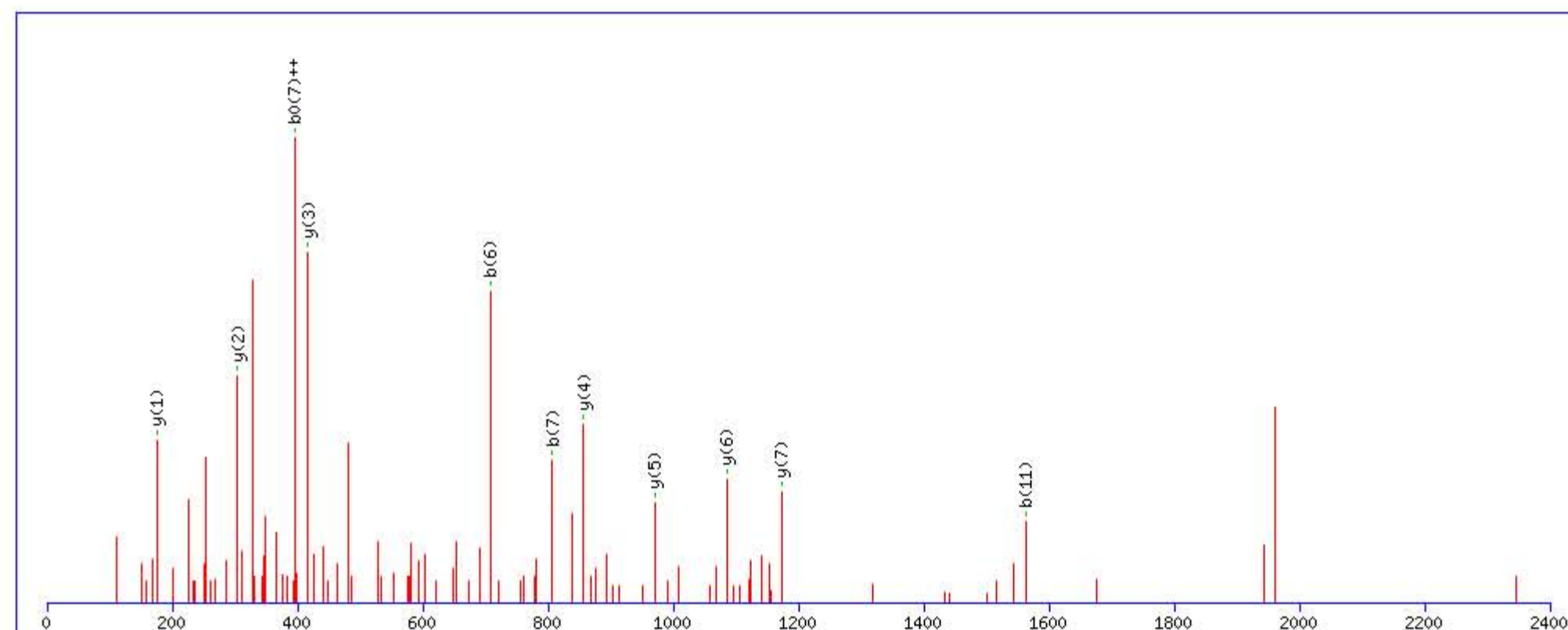
Title: Locus:1.1.1.3246.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1977.957809

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

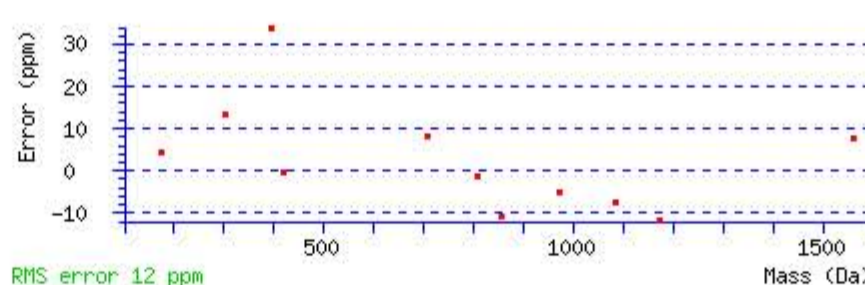
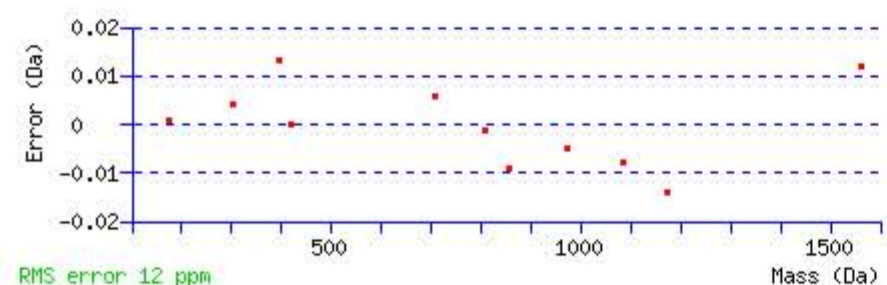
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 50 Expect: 0.00021

Matches : 11/148 fragment ions using 16 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	115.050203	58.028740	98.023654	49.515465			N							14
2	228.134267	114.570771	211.107718	106.057497			L	1864.922173	932.964724	1847.895624	924.451450	1846.911608	923.959442	13
3	365.193179	183.100227	348.166630	174.586953			H	1751.838109	876.422692	1734.811560	867.909418	1733.827544	867.417410	12
4	480.220122	240.613699	463.193573	232.100425	462.209557	231.608417	D	1614.779197	807.893236	1597.752648	799.379962	1596.768632	798.887954	11
5	593.304186	297.155731	576.277637	288.642457	575.293621	288.150449	L	1499.752254	750.379765	1482.725705	741.866490	1481.741689	741.374482	10
6	<b>708.331129</b>	354.669203	691.304580	346.155928	690.320564	345.663920	D	1386.668190	693.837733	1369.641641	685.324458	1368.657625	684.832450	9
7	<b>807.399543</b>	404.203410	790.372994	395.690135	789.388978	<b>395.198127</b>	V	1271.641247	636.324261	1254.614698	627.810987	1253.630682	627.318979	8
8	894.431571	447.719424	877.405022	439.206149	876.421006	438.714141	S	<b>1172.572833</b>	586.790054	1155.546284	578.276780	1154.562268	577.784772	7
9	1009.458514	505.232895	992.431965	496.719620	991.447949	496.227612	D	<b>1085.540805</b>	543.274040	1068.514256	534.760766	1067.530240	534.268758	6
10	1123.501441	562.254358	1106.474892	553.741084	1105.490876	553.249076	N	<b>970.513862</b>	485.760569	953.487313	477.247294	952.503297	476.755286	5
11	<b>1562.726767</b>	781.867021	1545.700218	773.353747	1544.716202	772.861739	Q	<b>856.470935</b>	428.739105	839.444386	420.225831	838.460370	419.733823	4
12	1675.810831	838.409053	1658.784282	829.895779	1657.800266	829.403771	L	<b>417.245609</b>	209.126442	400.219060	200.613168	399.235044	200.121160	3
13	1804.853424	902.930350	1787.826875	894.417075	1786.842859	893.925067	E	<b>304.161545</b>	152.584410	287.134996	144.071136	286.150980	143.579128	2
14							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **NLHDLVDSDNQLER**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
49.8	1977.957809	-0.009287	<a href="#">NLHDLVDSDNQLER</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **LAGLGLQLDEGLFSR**

Found in **VASN\_HUMAN**, Vasorin OS=Homo sapiens GN=VASN PE=1 SV=1

Match to Query 40328: 2027.088852 from(676.703560,3+) rtinseconds(2838) index(23948)

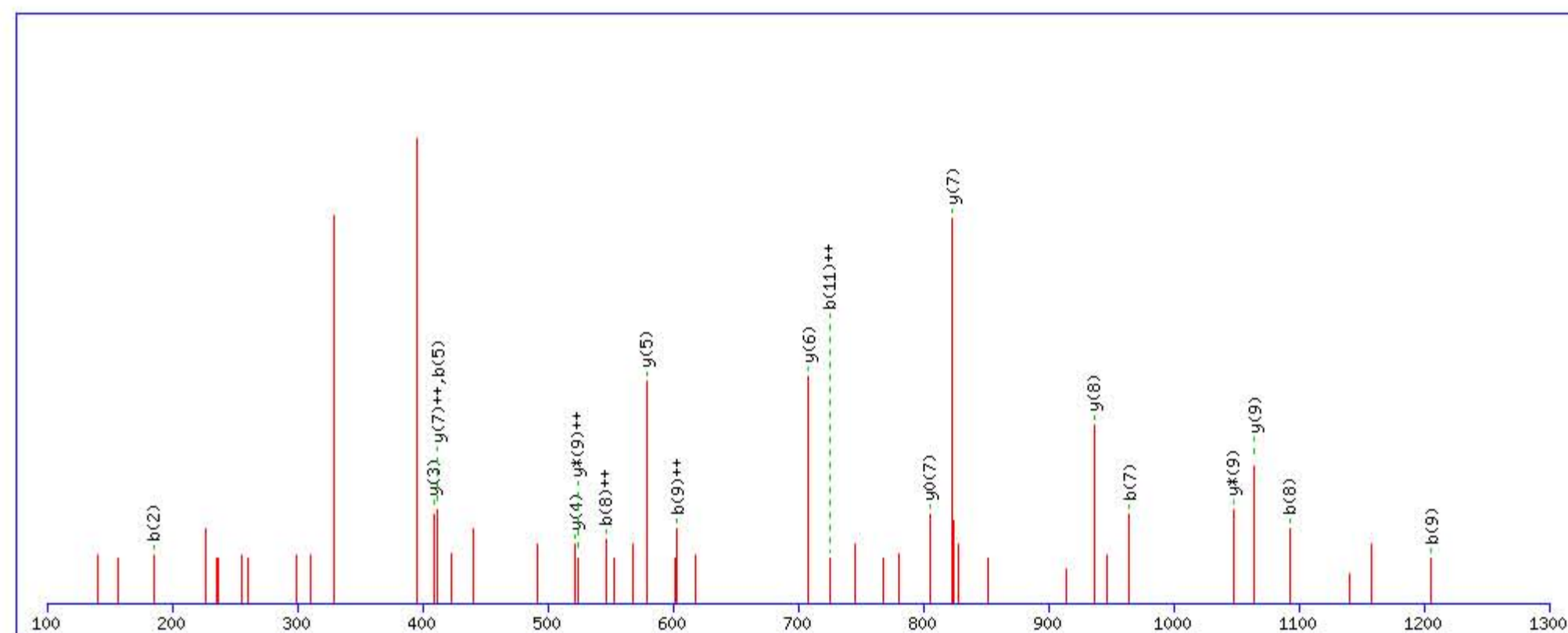
Title: Locus:1.1.1.3552.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 2.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2027.087372

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

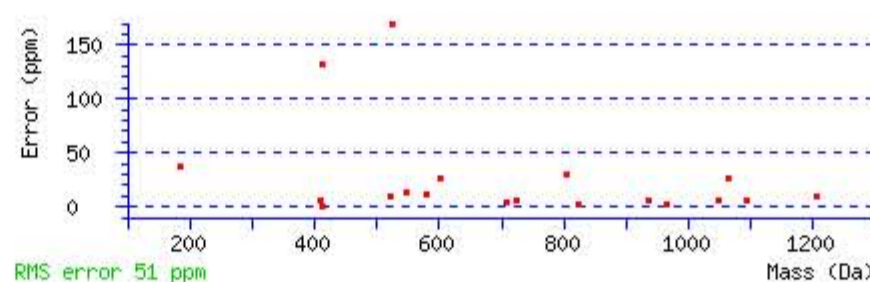
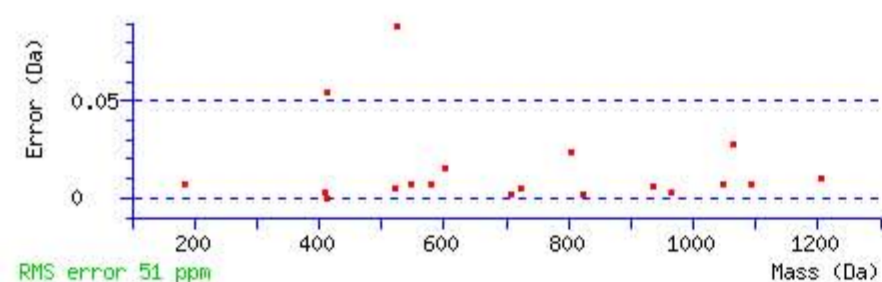
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 37 Expect: 0.0046

Matches : 19/148 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							16
2	<b>185.128454</b>	93.067865					A	1915.010596	958.008936	1897.984047	949.495662	1897.000031	949.003654	15
3	242.149918	121.578597					G	1843.973482	922.490379	1826.946933	913.977105	1825.962917	913.485097	14
4	355.233982	178.120629					L	1786.952018	893.979647	1769.925469	885.466373	1768.941453	884.974364	13
5	<b>412.255446</b>	206.631361					G	1673.867954	837.437615	1656.841405	828.924341	1655.857389	828.432333	12
6	525.339510	263.173393					L	1616.846490	808.926883	1599.819941	800.413609	1598.835925	799.921601	11
7	<b>964.564836</b>	482.786056	947.538287	474.272782			Q	1503.762426	752.384851	1486.735877	743.871577	1485.751861	743.379569	10
8	<b>1092.623414</b>	<b>546.815345</b>	1075.596865	538.302071			Q	<b>1064.537100</b>	532.772188	<b>1047.510551</b>	<b>524.258914</b>	1046.526535	523.766906	9
9	<b>1205.707478</b>	<b>603.357377</b>	1188.680929	594.844102			L	<b>936.478522</b>	468.742899	919.451973	460.229625	918.467957	459.737617	8
10	1320.734421	660.870848	1303.707872	652.357574	1302.723856	651.865566	D	<b>823.394458</b>	<b>412.200867</b>	806.367909	403.687593	<b>805.383893</b>	403.195585	7
11	1449.777014	<b>725.392145</b>	1432.750465	716.878871	1431.766449	716.386863	E	<b>708.367515</b>	354.687396	691.340966	346.174121	690.356950	345.682113	6
12	1506.798478	753.902877	1489.771929	745.389603	1488.787913	744.897594	G	<b>579.324922</b>	290.166099	562.298373	281.652825	561.314357	281.160817	5
13	1619.882542	810.444909	1602.855993	801.931634	1601.871977	801.439626	L	<b>522.303458</b>	261.655367	505.276909	253.142093	504.292893	252.650085	4
14	1766.950956	883.979116	1749.924407	875.465842	1748.940391	874.973833	F	<b>409.219394</b>	205.113335	392.192845	196.600061	391.208829	196.108053	3
15	1853.982984	927.495130	1836.956435	918.981856	1835.972419	918.489848	S	262.150980	131.579128	245.124431	123.065854	244.140415	122.573846	2
16							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of [LAGLGLQLDEGLFSR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
36.7	2027.087372	0.001480	<a href="#">LAGLGLQLDEGLFSR</a>
22.5	2027.087372	0.001480	<a href="#">LAGLGLQLDEGLFSR</a>



# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **FEDCCQEK**

Found in **VTDB\_HUMAN**, Vitamin D-binding protein OS=Homo sapiens GN=GC PE=1 SV=1

Match to Query 25123: 1425.568248 from(713.791400,2+) rtinseconds(1492) index(28763)

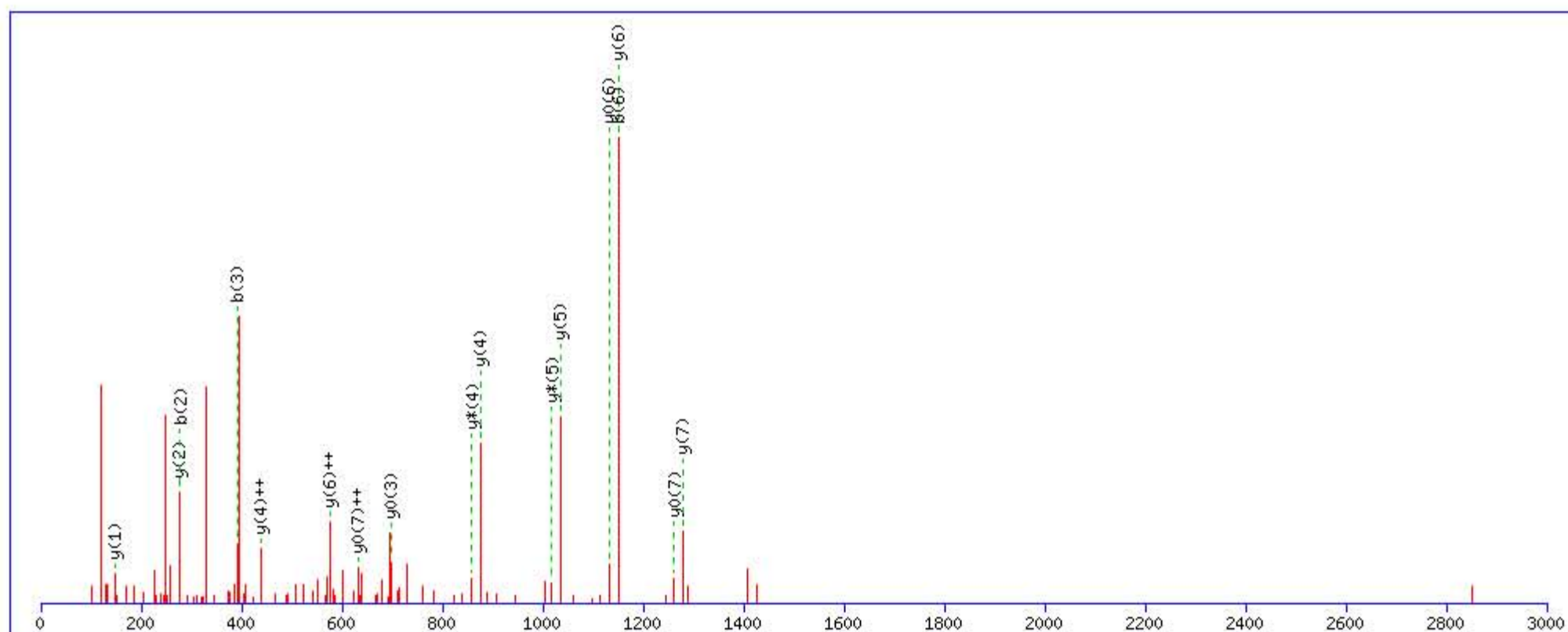
Title: Locus:1.1.1.3182.15 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1425.572693

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

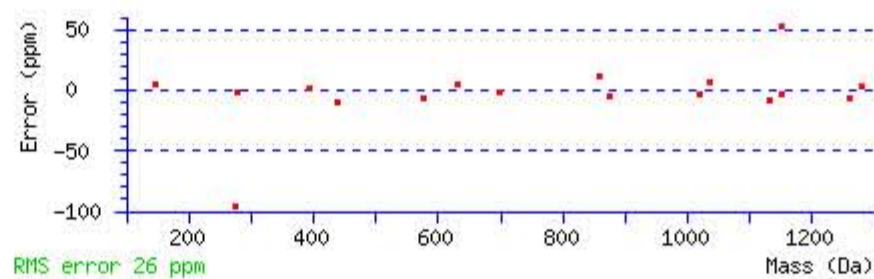
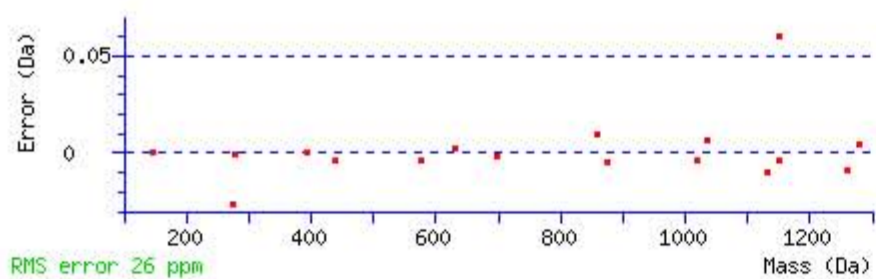
Variable modifications:

Q6 : Biotin:Thermo-21345 (Q)

Ions Score: 28 Expect: 0.0014

Matches : 17/70 fragment ions using 36 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	148.075690	74.541483					F							8
2	<b>277.118283</b>	139.062779			259.107718	130.057497	E	<b>1279.511557</b>	640.259417	1262.485008	631.746142	<b>1261.500992</b>	<b>631.254134</b>	7
3	<b>392.145226</b>	196.576251			374.134661	187.570968	D	<b>1150.468964</b>	<b>575.738120</b>	1133.442415	567.224846	<b>1132.458399</b>	566.732838	6
4	552.175875	276.591576			534.165310	267.586293	C	<b>1035.442021</b>	518.224649	<b>1018.415472</b>	509.711374	1017.431456	509.219366	5
5	712.206524	356.606900			694.195959	347.601618	C	<b>875.411372</b>	<b>438.209324</b>	<b>858.384823</b>	429.696050	857.400807	429.204042	4
6	<b>1151.431850</b>	576.219563	1134.405301	567.706289	1133.421285	567.214281	Q	715.380723	358.194000	698.354174	349.680725	<b>697.370158</b>	349.188717	3
7	1280.474443	640.740860	1263.447894	632.227585	1262.463878	631.735577	E	<b>276.155397</b>	138.581337	259.128848	130.068062	258.144832	129.576054	2
8							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [FEDCCQEK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
28.4	1425.572693	-0.004445	<a href="#">FEDCCQEK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **VCSQYAAYGEK**

Found in **VTDB\_HUMAN**, Vitamin D-binding protein OS=Homo sapiens GN=GC PE=1 SV=1

Match to Query 29956: 1585.728728 from(793.871640,2+) rtinseconds(1658) index(58775)

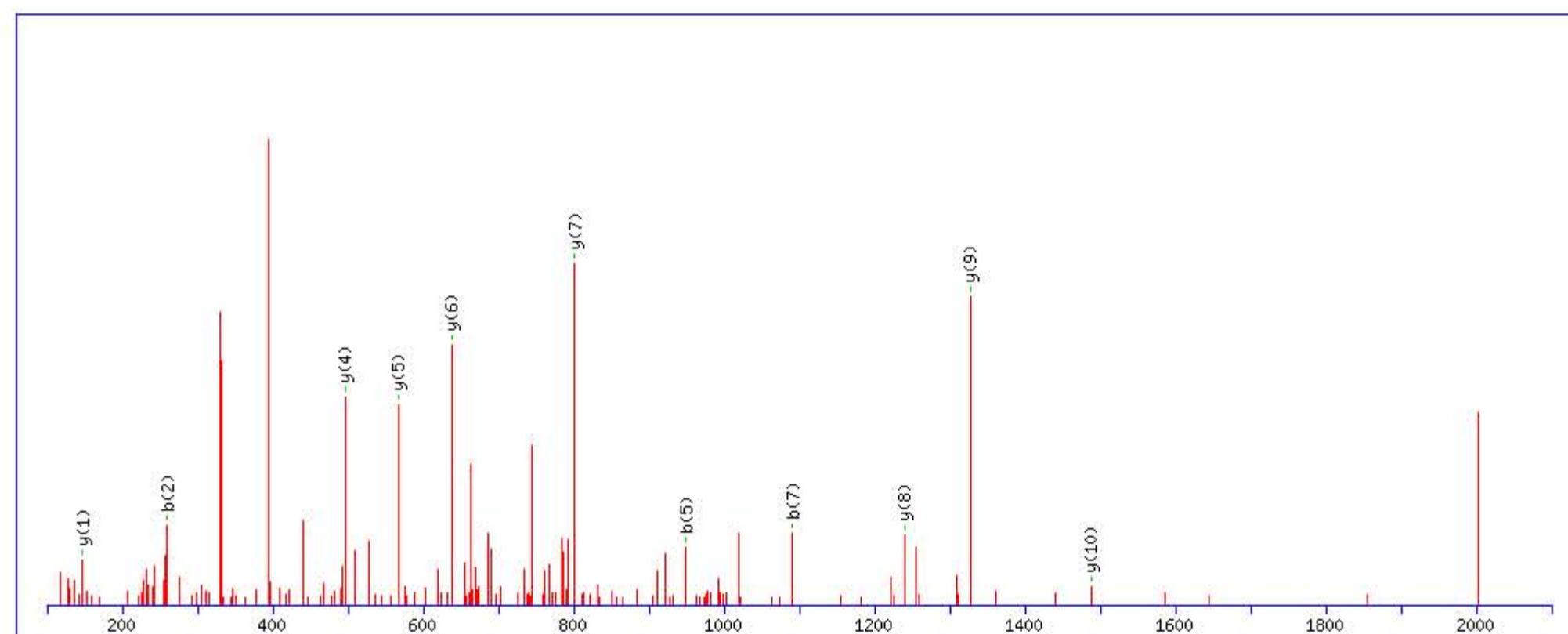
Title: Locus:1.1.1.1488.12 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1585.726868

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

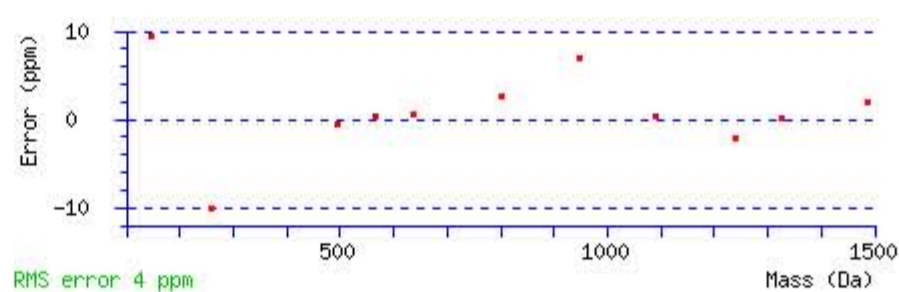
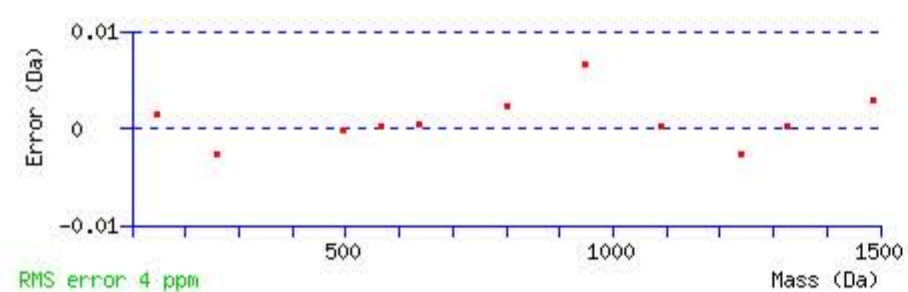
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 66 Expect: 2.4e-006

Matches : 11/108 fragment ions using 14 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							11
2	<b>260.106339</b>	130.556807					C	<b>1487.665750</b>	744.336513	1470.639201	735.823239	1469.655185	735.331231	10
3	347.138367	174.072821			329.127802	165.067539	S	<b>1327.635101</b>	664.321189	1310.608552	655.807914	1309.624536	655.315906	9
4	786.363693	393.685485	769.337144	385.172210	768.353128	384.680202	Q	<b>1240.603073</b>	620.805175	1223.576524	612.291900	1222.592508	611.799892	8
5	<b>949.427022</b>	475.217149	932.400473	466.703875	931.416457	466.211867	Y	<b>801.377747</b>	401.192512	784.351198	392.679237	783.367182	392.187229	7
6	1020.464136	510.735706	1003.437587	502.222432	1002.453571	501.730424	A	<b>638.314418</b>	319.660847	621.287869	311.147573	620.303853	310.655565	6
7	<b>1091.501250</b>	546.254263	1074.474701	537.740989	1073.490685	537.248981	A	<b>567.277304</b>	284.142290	550.250755	275.629016	549.266739	275.137008	5
8	1254.564579	627.785928	1237.538030	619.272653	1236.554014	618.780645	Y	<b>496.240190</b>	248.623733	479.213641	240.110459	478.229625	239.618451	4
9	1311.586043	656.296660	1294.559494	647.783385	1293.575478	647.291377	G	333.176861	167.092069	316.150312	158.578794	315.166296	158.086786	3
10	1440.628636	720.817956	1423.602087	712.304682	1422.618071	711.812674	E	276.155397	138.581337	259.128848	130.068062	258.144832	129.576054	2
11							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **VCSQYAAYGEK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
66.1	1585.726868	0.001860	<a href="#">VCSQYAAYGEK</a>
21.9	1585.744614	-0.015886	<a href="#">MSVNYYAAGLSPYADK</a>
3.8	1585.747986	-0.019258	<a href="#">MKMGQEFVESKEK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **KFPSGTFEQVSQLVK**

Found in **VTDB\_HUMAN**, Vitamin D-binding protein OS=Homo sapiens GN=GC PE=1 SV=1

Match to Query 39974: 2005.075032 from(669.365620,3+) rtinseconds(2242) index(61938)

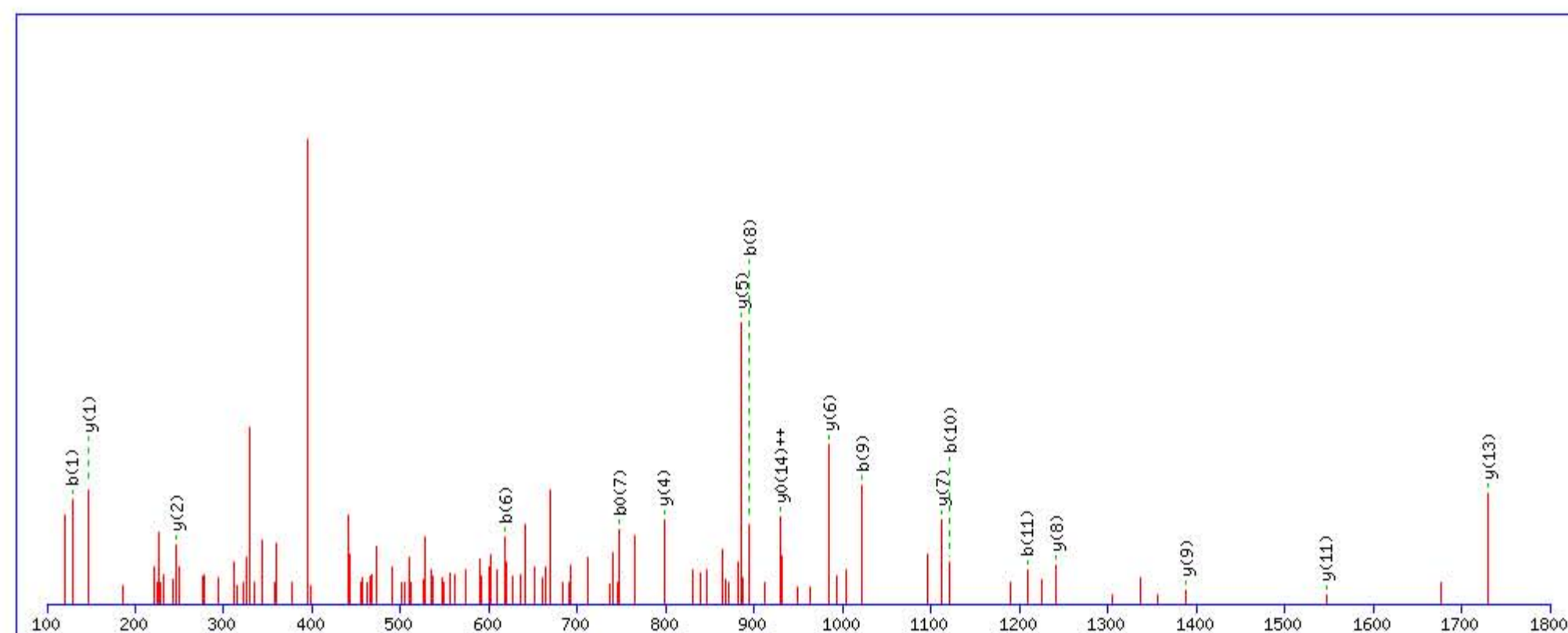
Title: Locus:1.1.1.1692.17 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2005.070679

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

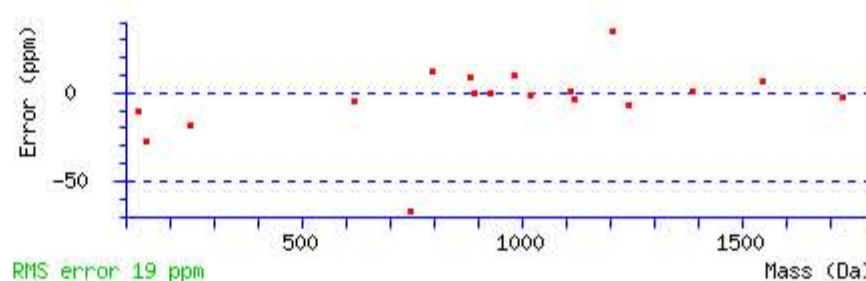
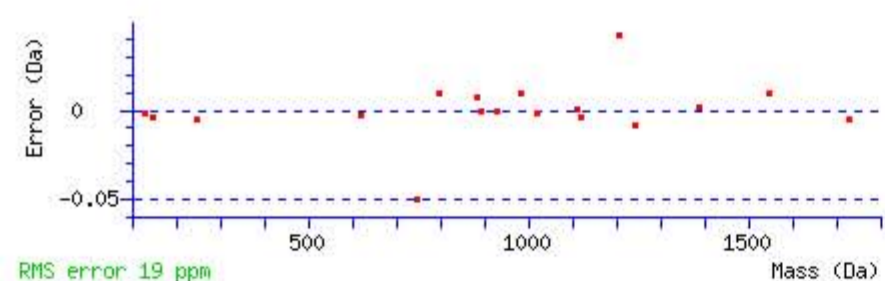
Variable modifications:

Q12 : Biotin:Thermo-21345 (Q)

Ions Score: 65 Expect: 7e-006

Matches : 19/154 fragment ions using 29 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>129.102239</b>	65.054757	112.075690	56.541483			<b>K</b>							<b>15</b>
2	276.170653	138.588964	259.144104	130.075690			<b>F</b>	1877.982984	939.495130	1860.956435	930.981856	1859.972419	<b>930.489848</b>	<b>14</b>
3	373.223417	187.115346	356.196868	178.602072			<b>P</b>	<b>1730.914570</b>	865.960923	1713.888021	857.447649	1712.904005	856.955641	<b>13</b>
4	460.255445	230.631360	443.228896	222.118086	442.244880	221.626078	<b>S</b>	1633.861806	817.434541	1616.835257	808.921267	1615.851241	808.429259	<b>12</b>
5	517.276909	259.142093	500.250360	250.628818	499.266344	250.136810	<b>G</b>	<b>1546.829778</b>	773.918527	1529.803229	765.405253	1528.819213	764.913245	<b>11</b>
6	<b>618.324588</b>	309.665932	601.298039	301.152658	600.314023	300.660650	<b>T</b>	1489.808314	745.407795	1472.781765	736.894521	1471.797749	736.402513	<b>10</b>
7	765.393002	383.200139	748.366453	374.686865	<b>747.382437</b>	374.194857	<b>F</b>	<b>1388.760635</b>	694.883956	1371.734086	686.370681	1370.750070	685.878673	<b>9</b>
8	<b>894.435595</b>	447.721436	877.409046	439.208161	876.425030	438.716153	<b>E</b>	<b>1241.692221</b>	621.349749	1224.665672	612.836474	1223.681656	612.344466	<b>8</b>
9	<b>1022.494173</b>	511.750725	1005.467624	503.237450	1004.483608	502.745442	<b>Q</b>	<b>1112.649628</b>	556.828452	1095.623079	548.315178	1094.639063	547.823170	<b>7</b>
10	<b>1121.562587</b>	561.284932	1104.536038	552.771657	1103.552022	552.279649	<b>V</b>	<b>984.591050</b>	492.799163	967.564501	484.285889	966.580485	483.793881	<b>6</b>
11	<b>1208.594615</b>	604.800946	1191.568066	596.287671	1190.584050	595.795663	<b>S</b>	<b>885.522636</b>	443.264956	868.496087	434.751682	867.512071	434.259674	<b>5</b>
12	1647.819941	824.413609	1630.793392	815.900334	1629.809376	815.408326	<b>Q</b>	<b>798.490608</b>	399.748942	781.464059	391.235668			<b>4</b>
13	1760.904005	880.955641	1743.877456	872.442366	1742.893440	871.950358	<b>L</b>	359.265282	180.136279	342.238733	171.623004			<b>3</b>
14	1859.972419	<b>930.489848</b>	1842.945870	921.976573	1841.961854	921.484565	<b>V</b>	<b>246.181218</b>	123.594247	229.154669	115.080973			<b>2</b>
15							<b>K</b>	<b>147.112804</b>	74.060040	130.086255	65.546765			<b>1</b>



NCBI BLAST search of [KFPSGTFEQVSQLVK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
64.9	2005.070679	0.004353	<a href="#">KFPSGTFEQVSQLVK</a>
25.1	2005.070679	0.004353	<a href="#">KFPSGTFEQVSQLVK</a>

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

# MATRIX SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **KFPSGTFEQVSQLVK**

Found in **VTDB\_HUMAN**, Vitamin D-binding protein OS=Homo sapiens GN=GC PE=1 SV=1

Match to Query 39976: 2005.076172 from(669.366000,3+) rtinseconds(2305) index(62257)

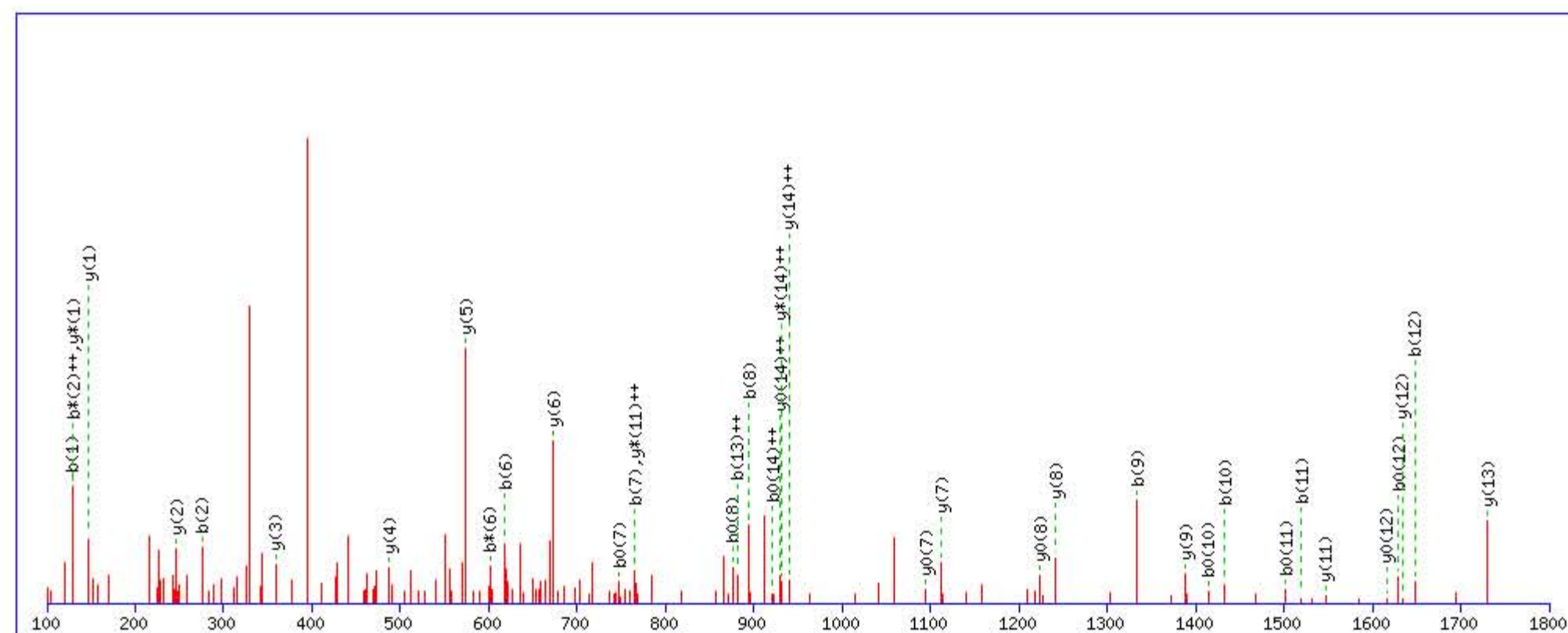
Title: Locus:1.1.1.1714.10 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2005.070679

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

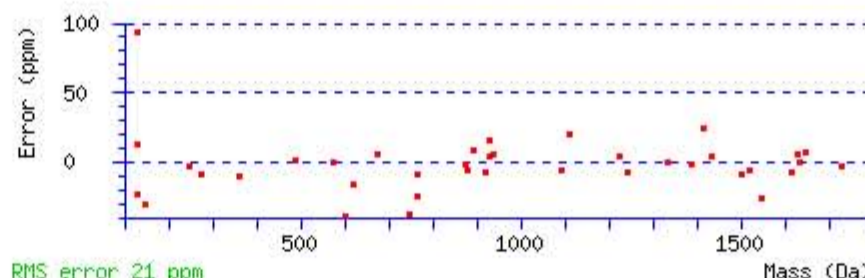
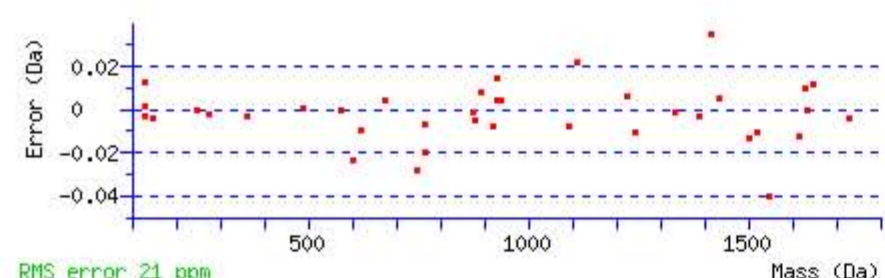
Variable modifications:

Q9 : Biotin:Thermo-21345 (Q)

Ions Score: 55 Expect: 1e-005

Matches : 39/154 fragment ions using 79 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.102239	65.054757	112.075690	56.541483			K							15
2	276.170653	138.588964	259.144104	130.075690			F	1877.982984	939.495130	1860.956435	930.981856	1859.972419	930.489848	14
3	373.223417	187.115346	356.196868	178.602072			P	1730.914570	865.960923	1713.888021	857.447649	1712.904005	856.955641	13
4	460.255445	230.631360	443.228896	222.118086	442.244880	221.626078	S	1633.861806	817.434541	1616.835257	808.921267	1615.851241	808.429259	12
5	517.276909	259.142093	500.250360	250.628818	499.266344	250.136810	G	1546.829778	773.918527	1529.803229	765.405253	1528.819213	764.913245	11
6	618.324588	309.665932	601.298039	301.152658	600.314023	300.660650	T	1489.808314	745.407795	1472.781765	736.894521	1471.797749	736.402513	10
7	765.393002	383.200139	748.366453	374.686865	747.382437	374.194857	F	1388.760635	694.883955	1371.734086	686.370681	1370.750070	685.878673	9
8	894.435595	447.721436	877.409046	439.208161	876.425030	438.716153	E	1241.692221	621.349749	1224.665672	612.836474	1223.681656	612.344466	8
9	1333.660921	667.334098	1316.634372	658.820824	1315.650356	658.328816	Q	1112.649628	556.828452	1095.623079	548.315178	1094.639063	547.823169	7
10	1432.729335	716.868306	1415.702786	708.355031	1414.718770	707.863023	V	673.424302	337.215789	656.397753	328.702515	655.413737	328.210507	6
11	1519.761363	760.384320	1502.734814	751.871045	1501.750798	751.379037	S	574.355888	287.681582	557.329339	279.168308	556.345323	278.676300	5
12	1647.819941	824.413609	1630.793392	815.900334	1629.809376	815.408326	Q	487.323860	244.165568	470.297311	235.652293			4
13	1760.904005	880.955640	1743.877456	872.442366	1742.893440	871.950358	L	359.265282	180.136279	342.238733	171.623004			3
14	1859.972419	930.489848	1842.945870	921.976573	1841.961854	921.484565	V	246.181218	123.594247	229.154669	115.080973			2
15							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **KFPSGTFEQVSQLVK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
55.0	2005.070679	0.005493	<a href="#">KFPSGTFEQVSQLVK</a>
25.2	2005.070679	0.005493	<a href="#">KFPSGTFEQVSQLVK</a>
1.8	2005.048874	0.027298	<a href="#">KTMSKPGNGQPPVPEK</a>
1.8	2005.079193	-0.003021	<a href="#">RATWLHQALREGTR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **GQELCADYSENTFTEYK**

Found in **VTDB\_HUMAN**, Vitamin D-binding protein OS=Homo sapiens GN=GC PE=1 SV=1

Match to Query 45972: 2365.019022 from(789.346950,3+) rtinseconds(2171) index(32858)

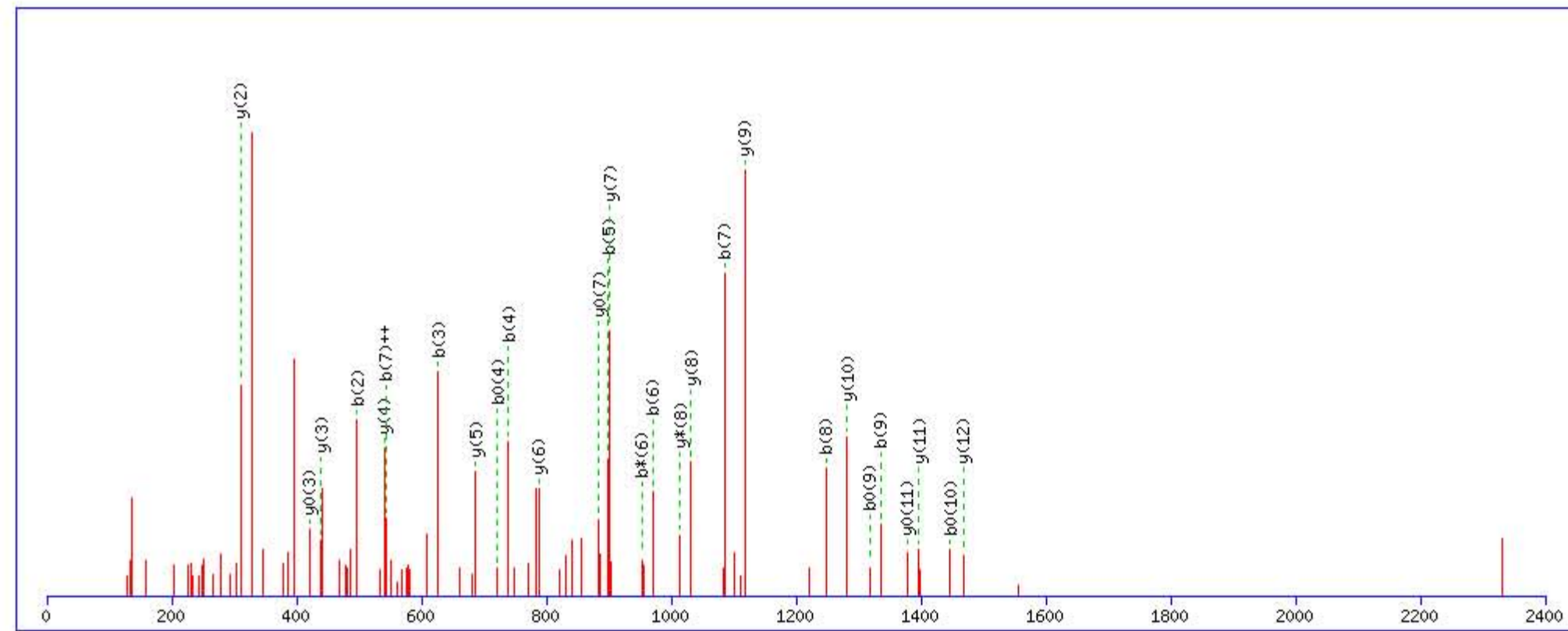
Title: Locus:1.1.1.3419.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2365.024231

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

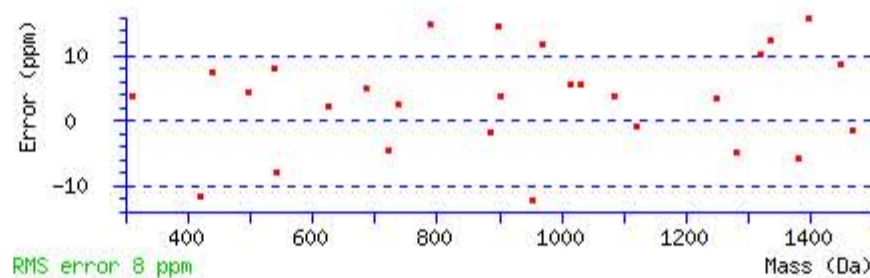
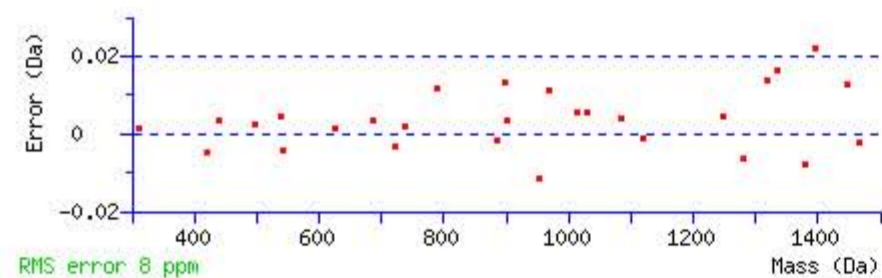
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 78 Expect: 4.6e-008

Matches : 28/182 fragment ions using 41 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							17
2	<b>497.254066</b>	249.130671	480.227517	240.617397			Q	2309.010064	1155.008670	2291.983515	1146.495395	2290.999499	1146.003387	16
3	<b>626.296659</b>	313.651968	609.270110	305.138693	608.286094	304.646685	E	1869.784738	935.396007	1852.758189	926.882733	1851.774173	926.390725	15
4	<b>739.380723</b>	370.194000	722.354174	361.680725	<b>721.370158</b>	361.188717	L	1740.742145	870.874711	1723.715596	862.361436	1722.731580	861.869428	14
5	<b>899.411372</b>	450.209324	882.384823	441.696050	881.400807	441.204042	C	1627.658081	814.332679	1610.631532	805.819404	1609.647516	805.327396	13
6	<b>970.448486</b>	485.727881	<b>953.421937</b>	477.214607	952.437921	476.722599	A	<b>1467.627432</b>	734.317354	1450.600883	725.804080	1449.616867	725.312072	12
7	<b>1085.475429</b>	<b>543.241353</b>	1068.448880	534.728078	1067.464864	534.236070	D	<b>1396.590318</b>	698.798797	1379.563769	690.285523	<b>1378.579753</b>	689.793515	11
8	<b>1248.538758</b>	624.773017	1231.512209	616.259743	1230.528193	615.767735	Y	<b>1281.563375</b>	641.285326	1264.536826	632.772051	1263.552810	632.280043	10
9	<b>1335.570786</b>	668.289031	1318.544237	659.775757	<b>1317.560221</b>	659.283749	S	<b>1118.500046</b>	559.753661	1101.473497	551.240387	1100.489481	550.748379	9
10	1464.613379	732.810328	1447.586830	724.297053	<b>1446.602814</b>	723.805045	E	<b>1031.468018</b>	516.237647	<b>1014.441469</b>	507.724373	1013.457453	507.232365	8
11	1578.656306	789.831791	1561.629757	781.318517	1560.645741	780.826509	N	<b>902.425425</b>	451.716351	885.398876	443.203076	<b>884.414860</b>	442.711068	7
12	1679.703985	840.355631	1662.677436	831.842356	1661.693420	831.350348	T	<b>788.382498</b>	394.694887	771.355949	386.181613	770.371933	385.689605	6
13	1826.772399	913.889838	1809.745850	905.376563	1808.761834	904.884555	F	<b>687.334819</b>	344.171048	670.308270	335.657773	669.324254	335.165765	5
14	1927.820078	964.413677	1910.793529	955.900403	1909.809513	955.408395	T	<b>540.266405</b>	270.636841	523.239856	262.123566	522.255840	261.631558	4
15	2056.862671	1028.934973	2039.836122	1020.421699	2038.852106	1019.929691	E	<b>439.218726</b>	220.113001	422.192177	211.599726	<b>421.208161</b>	211.107718	3
16	2219.926000	1110.466638	2202.899451	1101.953363	2201.915435	1101.461355	Y	<b>310.176133</b>	155.591705	293.149584	147.078430			2
17							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [GQELCADYSENTFTEYK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
78.2	2365.024231	-0.005209	<a href="#">GQELCADYSENTFTEYK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **HQPQEFPTYVEPTNDEICEAFR**

Found in **VTDB\_HUMAN**, Vitamin D-binding protein OS=Homo sapiens GN=GC PE=1 SV=1

Match to Query 54130: 3017.398992 from(1006.806940,3+) rtinseconds(2363) index(62491)

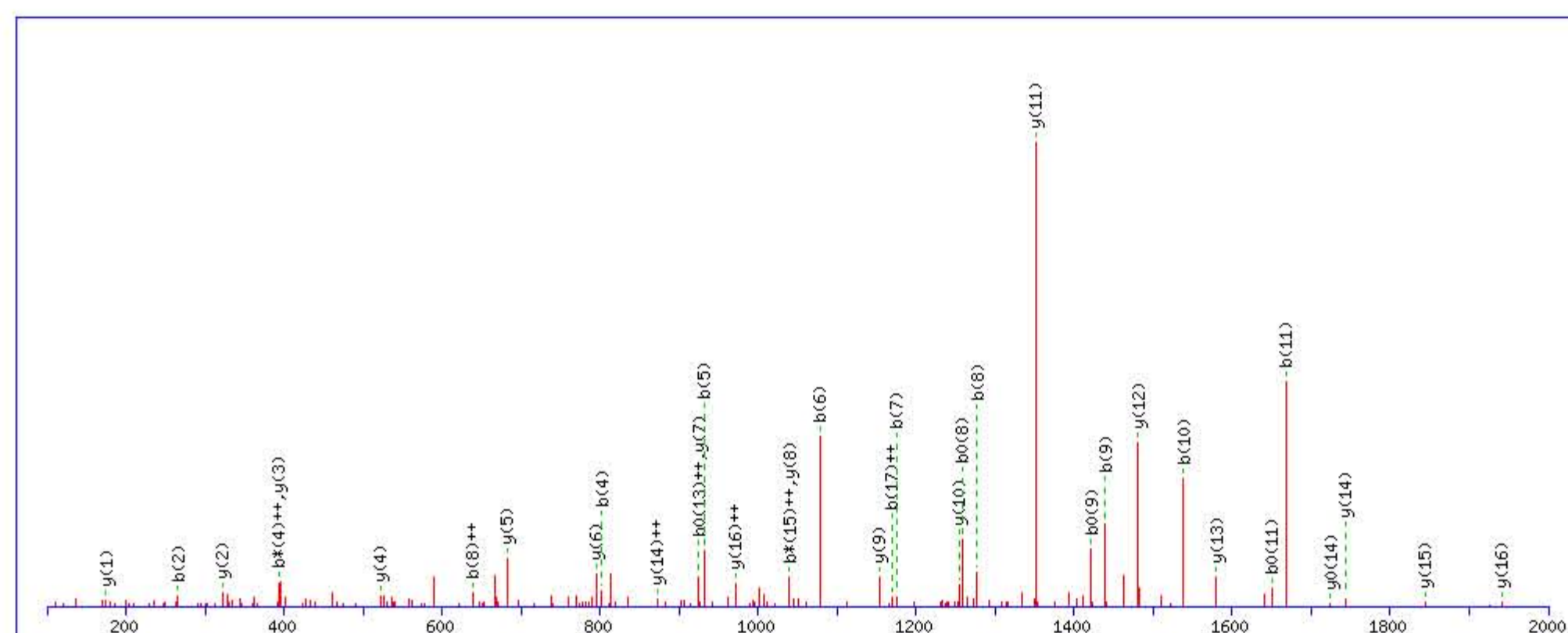
Title: Locus:1.1.1.1734.14 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3017.368774

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

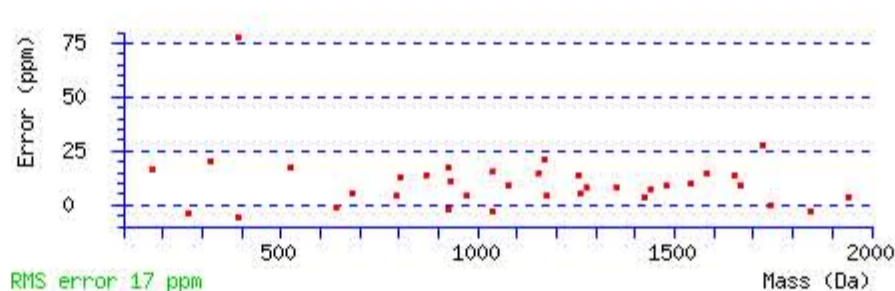
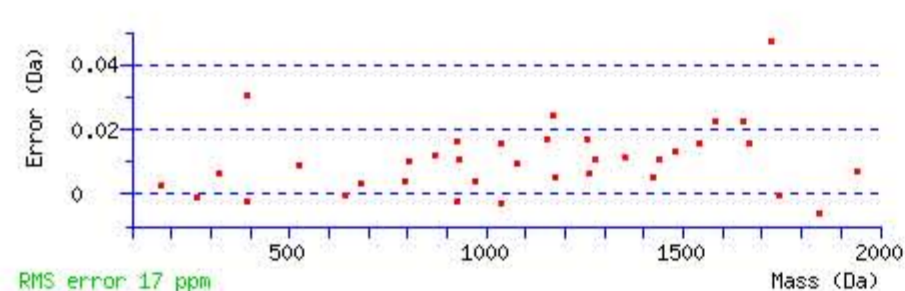
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 104 Expect: 2.2e-010

Matches : 36/236 fragment ions using 55 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	138.066188	69.536732					H							22
2	<b>266.124766</b>	133.566021	249.098217	125.052746			Q	2881.317146	1441.162211	2864.290597	1432.648936	2863.306581	1432.156928	21
3	363.177530	182.092403	346.150981	173.579129			P	2753.258568	1377.132922	2736.232019	1368.619647	2735.248003	1368.127639	20
4	<b>802.402856</b>	401.705066	785.376307	<b>393.191792</b>			Q	2656.205804	1328.606540	2639.179255	1320.093265	2638.195239	1319.601257	19
5	<b>931.445449</b>	466.226363	914.418900	457.713088	913.434884	457.221080	E	2216.980478	1108.993877	2199.953929	1100.480602	2198.969913	1099.988594	18
6	<b>1078.513863</b>	539.760570	1061.487314	531.247295	1060.503298	530.755287	F	2087.937885	1044.472580	2070.911336	1035.959306	2069.927320	1035.467298	17
7	<b>1175.566627</b>	588.286952	1158.540078	579.773677	1157.556062	579.281669	P	<b>1940.869471</b>	<b>970.938374</b>	1923.842922	962.425099	1922.858906	961.933091	16
8	<b>1276.614306</b>	<b>638.810791</b>	1259.587757	630.297517	<b>1258.603741</b>	629.805509	T	<b>1843.816707</b>	922.411992	1826.790158	913.898717	1825.806142	913.406709	15
9	<b>1439.677635</b>	720.342456	1422.651086	711.829181	<b>1421.667070</b>	711.337173	Y	<b>1742.769028</b>	<b>871.888152</b>	1725.742479	863.374878	<b>1724.758463</b>	862.882870	14
10	<b>1538.746049</b>	769.876663	1521.719500	761.363388	1520.735484	760.871380	V	<b>1579.705699</b>	790.356488	1562.679150	781.843213	1561.695134	781.351205	13
11	<b>1667.788642</b>	834.397959	1650.762093	825.884685	<b>1649.778077</b>	825.392677	E	<b>1480.637285</b>	740.822281	1463.610736	732.309006	1462.626720	731.816998	12
12	1764.841406	882.924341	1747.814857	874.411067	1746.830841	873.919059	P	<b>1351.594692</b>	676.300984	1334.568143	667.787710	1333.584127	667.295702	11
13	1865.889085	933.448181	1848.862536	924.934906	1847.878520	<b>924.442898</b>	T	<b>1254.541928</b>	627.774602	1237.515379	619.261328	1236.531363	618.769320	10
14	1979.932012	990.469644	1962.905463	981.956370	1961.921447	981.464362	N	<b>1153.494249</b>	577.250763	1136.467700	568.737488	1135.483684	568.245480	9
15	2094.958955	1047.983115	2077.932406	<b>1039.469841</b>	2076.948390	1038.977833	D	<b>1039.451322</b>	520.229299	1022.424773	511.716025	1021.440757	511.224017	8
16	2224.001548	1112.504412	2206.974999	1103.991137	2205.990983	1103.499130	E	<b>924.424379</b>	462.715828	907.397830	454.202553	906.413814	453.710545	7
17	2337.085612	<b>1169.046444</b>	2320.059063	1160.533170	2319.075047	1160.041162	I	<b>795.381786</b>	398.194531	778.355237	389.681257	777.371221	389.189249	6
18	2497.116261	1249.061769	2480.089712	1240.548494	2479.105696	1240.056486	C	<b>682.297722</b>	341.652499	665.271173	333.139225	664.287157	332.647217	5
19	2626.158854	1313.583065	2609.132305	1305.069791	2608.148289	1304.577783	E	<b>522.267073</b>	261.637175	505.240524	253.123900	504.256508	252.631892	4
20	2697.195968	1349.101622	2680.169419	1340.588348	2679.185403	1340.096340	A	<b>393.224480</b>	197.115878	376.197931	188.602603			3
21	2844.264382	1422.635829	2827.237833	1414.122555	2826.253817	1413.630547	F	<b>322.187366</b>	161.597321	305.160817	153.084046			2
22							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [HQPQEFPTYVEPTNDEICEAFR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
104.1	3017.368774	0.030218	<a href="#">HQPQEFPTYVEPTNDEICEAFR</a>
102.0	3017.368774	0.030218	<a href="#">HQPQEFPTYVEPTNDEICEAFR</a>
1.2	3017.420258	-0.021266	<a href="#">VGWARPGCRPDVELGADDQAFVFEGR</a>
1.0	3017.375122	0.023870	<a href="#">TGASASFNSTDPSPEPPAPSHPTSSLGR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **LGDDLLQCHPAVK**

Found in **PROC\_HUMAN**, Vitamin K-dependent protein C OS=Homo sapiens GN=PROC PE=1 SV=1

Match to Query 35272: 1775.905782 from(592.975870,3+) rtinseconds(1983) index(45924)

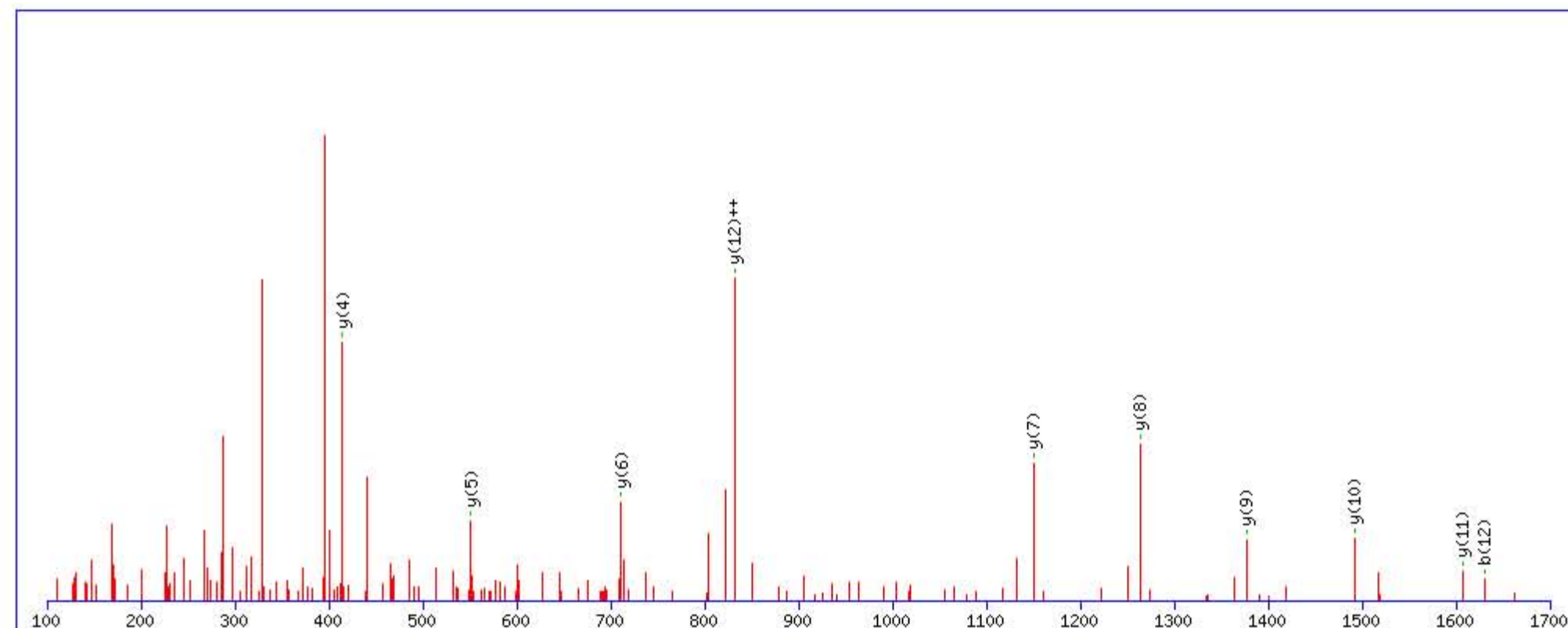
Title: Locus:1.1.1.3403.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1775.906250

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

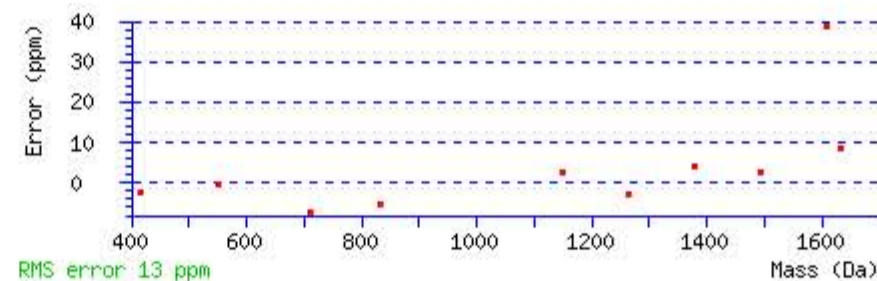
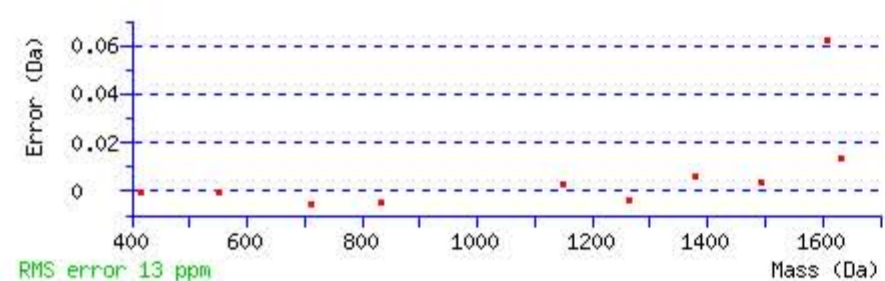
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 48 Expect: 4.3e-005

Matches : 10/110 fragment ions using 16 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					L							13
2	171.112804	86.060040					G	1663.829461	832.418369	1646.802912	823.905094	1645.818896	823.413086	12
3	286.139747	143.573512			268.129182	134.568229	D	1606.807997	803.907637	1589.781448	795.394362	1588.797432	794.902354	11
4	401.166690	201.086983			383.156125	192.081701	D	1491.781054	746.394165	1474.754505	737.880891	1473.770489	737.388883	10
5	514.250754	257.629015			496.240189	248.623733	L	1376.754111	688.880694	1359.727562	680.367419			9
6	627.334818	314.171047			609.324253	305.165765	L	1263.670047	632.338662	1246.643498	623.825387			8
7	1066.560144	533.783710	1049.533595	525.270436	1048.549579	524.778428	Q	1150.585983	575.796630	1133.559434	567.283355			7
8	1226.590793	613.799035	1209.564244	605.285760	1208.580228	604.793752	C	711.360657	356.183967	694.334108	347.670692			6
9	1363.649705	682.328491	1346.623156	673.815216	1345.639140	673.323208	H	551.330008	276.168642	534.303459	267.655368			5
10	1460.702469	730.854873	1443.675920	722.341598	1442.691904	721.849590	P	414.271096	207.639186	397.244547	199.125912			4
11	1531.739583	766.373430	1514.713034	757.860155	1513.729018	757.368147	A	317.218332	159.112804	300.191783	150.599530			3
12	1630.807997	815.907637	1613.781448	807.394362	1612.797432	806.902354	V	246.181218	123.594247	229.154669	115.080973			2
13							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [LGDDLLQCHPAVK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
47.8	1775.906250	-0.000468	<a href="#">LGDDLLQCHPAVK</a>
1.1	1775.879761	0.026021	<a href="#">VASMDSIGNLMVSPVVK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **ELNQAGQETLV TGWGYHSSR**

Found in **PROC\_HUMAN**, Vitamin K-dependent protein C OS=Homo sapiens GN=PROC PE=1 SV=1

Match to Query 48989: 2543.229282 from(848.750370,3+) rtinseconds(2186) index(47175)

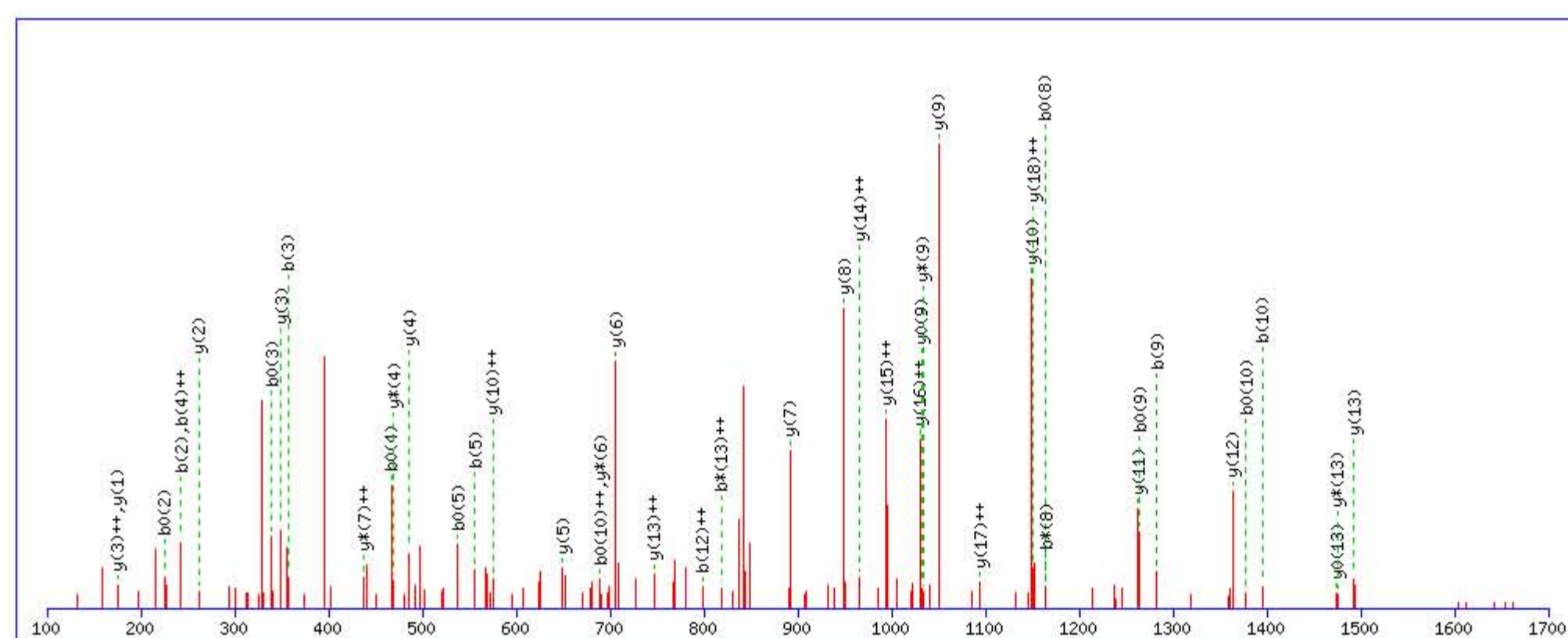
Title: Locus:1.1.1.3473.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2543.222702

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

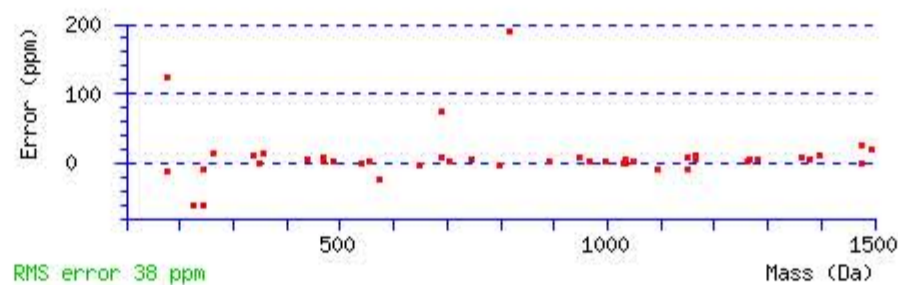
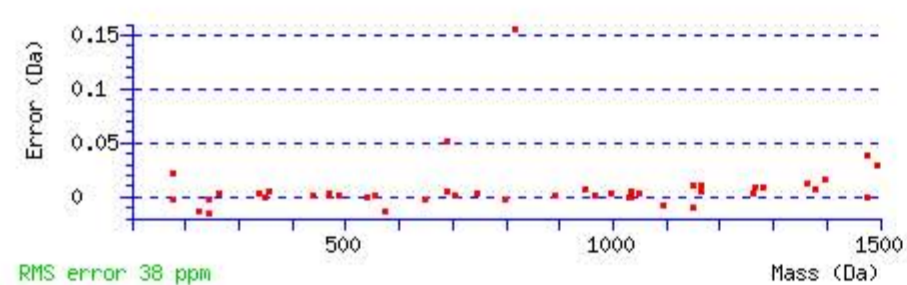
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 61 Expect: 1.9e-005

Matches : 45/222 fragment ions using 86 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	130.049869	65.528572			112.039304	56.523290	E							20
2	<b>243.133933</b>	122.070605			<b>225.123368</b>	113.065322	L	2415.187392	1208.097334	2398.160843	1199.584059	2397.176827	1199.092051	19
3	<b>357.176860</b>	179.092068	340.150311	170.578794	<b>339.166295</b>	170.086786	N	2302.103328	<b>1151.555302</b>	2285.076779	1143.042027	2284.092763	1142.550019	18
4	485.235438	<b>243.121357</b>	468.208889	234.608083	<b>467.224873</b>	234.116075	Q	2188.060401	<b>1094.533838</b>	2171.033852	1086.020564	2170.049836	1085.528556	17
5	<b>556.272552</b>	278.639914	539.246003	270.126640	<b>538.261987</b>	269.634632	A	2060.001823	<b>1030.504549</b>	2042.975274	1021.991275	2041.991258	1021.499267	16
6	613.294016	307.150646	596.267467	298.637372	595.283451	298.145364	G	1988.964709	<b>994.985993</b>	1971.938160	986.472718	1970.954144	985.980710	15
7	1052.519342	526.763309	1035.492793	518.250035	1034.508777	517.758027	Q	1931.943245	<b>966.475261</b>	1914.916696	957.961986	1913.932680	957.469978	14
8	1181.561935	591.284606	<b>1164.535386</b>	582.771331	<b>1163.551370</b>	582.279323	E	<b>1492.717919</b>	<b>746.862597</b>	<b>1475.691370</b>	738.349323	<b>1474.707354</b>	737.857315	13
9	<b>1282.609614</b>	641.808445	1265.583065	633.295171	<b>1264.599049</b>	632.803163	T	<b>1363.675326</b>	682.341301	1346.648777	673.828026	1345.664761	673.336018	12
10	<b>1395.693678</b>	698.350477	1378.667129	689.837203	<b>1377.683113</b>	<b>689.345195</b>	L	<b>1262.627647</b>	631.817461	1245.601098	623.304187	1244.617082	622.812179	11
11	1494.762092	747.884684	1477.735543	739.371410	1476.751527	738.879402	V	<b>1149.543583</b>	<b>575.275429</b>	1132.517034	566.762155	1131.533018	566.270147	10
12	1595.809771	<b>798.408524</b>	1578.783222	789.895249	1577.799206	789.403241	T	<b>1050.475169</b>	525.741222	<b>1033.448620</b>	517.227948	<b>1032.464604</b>	516.735940	9
13	1652.831235	826.919256	1635.804686	<b>818.405981</b>	1634.820670	817.913973	G	<b>949.427490</b>	475.217383	932.400941	466.704108	931.416925	466.212100	8
14	1838.910548	919.958912	1821.883999	911.445638	1820.899983	910.953630	W	<b>892.406026</b>	446.706651	875.379477	<b>438.193376</b>	874.395461	437.701368	7
15	1895.932012	948.469644	1878.905463	939.956370	1877.921447	939.464362	G	<b>706.326713</b>	353.666994	<b>689.300164</b>	345.153720	688.316148	344.661712	6
16	2058.995341	1030.001308	2041.968792	1021.488034	2040.984776	1020.996026	Y	<b>649.305249</b>	325.156263	632.278700	316.642988	631.294684	316.150980	5
17	2196.054253	1098.530764	2179.027704	1090.017490	2178.043688	1089.525482	H	<b>486.241920</b>	243.624598	<b>469.215371</b>	235.111324	468.231355	234.619316	4
18	2283.086281	1142.046778	2266.059732	1133.533504	2265.075716	1133.041496	S	<b>349.183008</b>	<b>175.095142</b>	332.156459	166.581868	331.172443	166.089860	3
19	2370.118309	1185.562792	2353.091760	1177.049518	2352.107744	1176.557510	S	<b>262.150980</b>	131.579128	245.124431	123.065854	244.140415	122.573846	2
20							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [ELNQAGQETLV TGWGYHSSR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
61.0	2543.222702	0.006580	<a href="#">ELNQAGQETLV TGWGYHSSR</a>
53.7	2543.222702	0.006580	<a href="#">ELNQAGQETLV TGWGYHSSR</a>



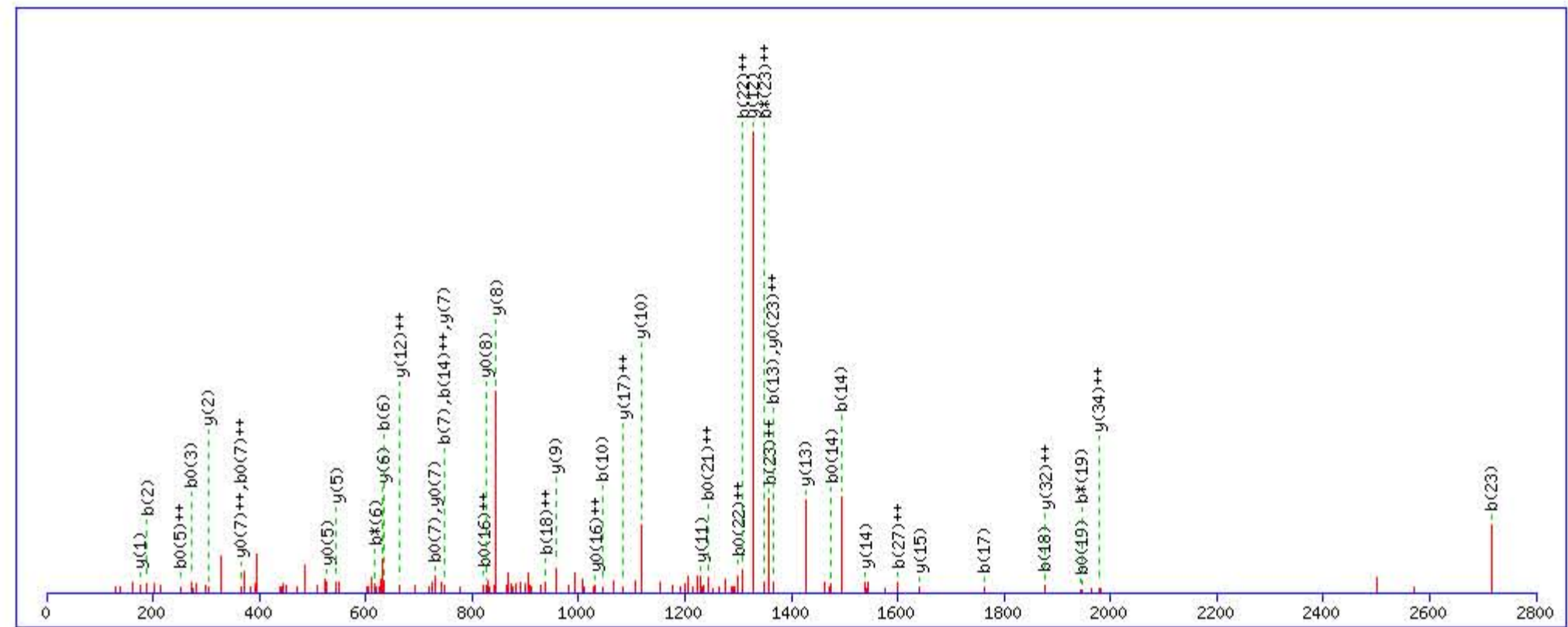
# Mascot Search Results

## Peptide View

MS/MS Fragmentation of **STTDNDIALHLHAQPATLSQTIVPICLPDSGLAER**  
 Found in **PROC\_HUMAN**, Vitamin K-dependent protein C OS=Homo sapiens GN=PROC PE=1 SV=1

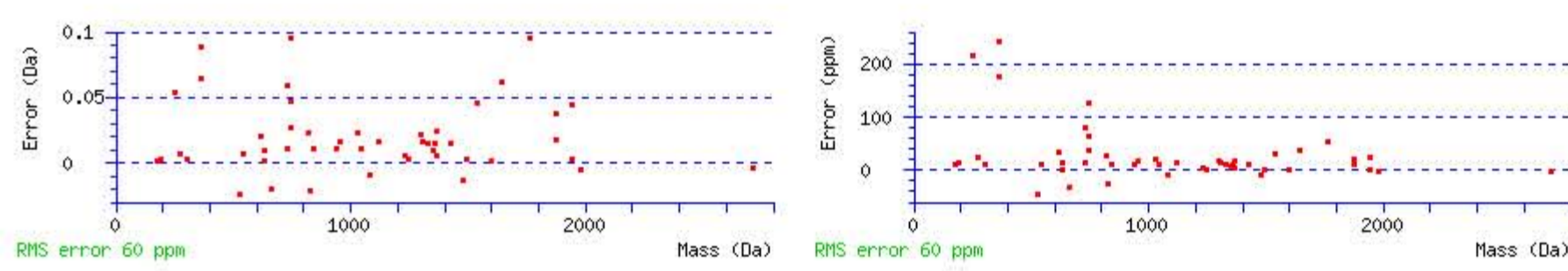
Match to Query 62651: 4041.114056 from(1011.285790,4+) rtinseconds(2981) index(52204)  
 Title: Locus:1.1.1.3746.22 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 4041.091476  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q20 : Biotin:Thermo-21345 (Q)  
 Ions Score: 53 Expect: 9.6e-005  
 Matches : 49/398 fragment ions using 101 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							35
2	<b>189.086983</b>	95.047129			171.076418	86.041847	T	3955.066740	<b>1978.037008</b>	3938.040191	1969.523733	3937.056175	1969.031725	34
3	290.134662	145.570969			<b>272.124097</b>	136.565687	T	3854.019061	1927.513168	3836.992512	1918.999894	3836.008496	1918.507886	33
4	405.161605	203.084441			387.151040	194.079158	D	3752.971382	<b>1876.989329</b>	3735.944833	1868.476054	3734.960817	1867.984046	32
5	519.204532	260.105904	502.177983	251.592630	501.193967	<b>251.100622</b>	N	3637.944439	1819.475857	3620.917890	1810.962583	3619.933874	1810.470575	31
6	<b>634.231475</b>	317.619376	<b>617.204926</b>	309.106101	616.220910	308.614093	D	3523.901512	1762.454394	3506.874963	1753.941119	3505.890947	1753.449111	30
7	<b>747.315539</b>	374.161408	730.288990	365.648133	<b>729.304974</b>	<b>365.156125</b>	I	3408.874569	1704.940922	3391.848020	1696.427648	3390.864004	1695.935640	29
8	818.352653	409.679965	801.326104	401.166690	800.342088	400.674682	A	3295.790505	1648.398890	3278.763956	1639.885616	3277.779940	1639.393608	28
9	931.436717	466.221997	914.410168	457.708722	913.426152	457.216714	L	3224.753391	1612.880333	3207.726842	1604.367059	3206.742826	1603.875051	27
10	<b>1044.520781</b>	522.764028	1027.494232	514.250754	1026.510216	513.758746	L	3111.669327	1556.338301	3094.642778	1547.825027	3093.658762	1547.333019	26
11	1181.579693	591.293484	1164.553144	582.780210	1163.569128	582.288202	H	2998.585263	1499.796269	2981.558714	1491.282995	2980.574698	1490.790987	25
12	1294.663757	647.835516	1277.637208	639.322242	1276.653192	638.830234	L	2861.526351	1431.266813	2844.499802	1422.753539	2843.515786	1422.261531	24
13	<b>1365.700871</b>	683.354073	1348.674322	674.840799	1347.690306	674.348791	A	2748.442287	1374.724781	2731.415738	1366.211507	2730.431722	<b>1365.719499</b>	23
14	<b>1493.759449</b>	<b>747.383362</b>	1476.732900	738.870088	<b>1475.748884</b>	738.378080	Q	2677.405173	1339.206224	2660.378624	1330.692950	2659.394608	1330.200942	22
15	1590.812213	795.909744	1573.785664	787.396470	1572.801648	786.904462	P	2549.346595	1275.176935	2532.320046	1266.663661	2531.336030	1266.171653	21
16	1661.849327	831.428301	1644.822778	822.915027	1643.838762	<b>822.423019</b>	A	2452.293831	1226.650553	2435.267282	1218.137279	2434.283266	1217.645271	20
17	<b>1762.897006</b>	881.952141	1745.870457	873.438867	1744.886441	872.946858	T	2381.256717	1191.131996	2364.230168	1182.618722	2363.246152	1182.126714	19
18	<b>1875.981070</b>	<b>938.494173</b>	1858.954521	929.980898	1857.970505	929.488890	L	2280.209038	1140.608157	2263.182489	1132.094882	2262.198473	1131.602874	18
19	1963.013098	982.010187	<b>1945.986549</b>	973.496913	<b>1945.002533</b>	973.004904	S	2167.124974	<b>1084.066125</b>	2150.098425	1075.552850	2149.114409	1075.060842	17
20	2402.238424	1201.622850	2385.211875	1193.109575	2384.227859	1192.617567	Q	2080.092946	1040.550111	2063.066397	1032.036836	2062.082381	<b>1031.544828</b>	16
21	2503.286103	1252.146689	2486.259554	1243.633415	2485.275538	<b>1243.141407</b>	T	<b>1640.867620</b>	820.937448	1623.841071	812.424174	1622.857055	811.932166	15
22	2616.370167	<b>1308.688721</b>	2599.343618	1300.175447	2598.359602	<b>1299.683439</b>	I	<b>1539.819941</b>	770.413609	1522.793392	761.900334	1521.809376	761.408326	14
23	<b>2715.438581</b>	<b>1358.222928</b>	2698.412032	<b>1349.709654</b>	2697.428016	1349.217646	V	<b>1426.735877</b>	713.871577	1409.709328	705.358302	1408.725312	704.866294	13
24	2812.491345	1406.749310	2795.464796	1398.236036	2794.480780	1397.744028	P	<b>1327.667463</b>	<b>664.337370</b>	1310.640914	655.824095	1309.656898	655.332087	12
25	2925.575409	1463.291342	2908.548860	1454.778068	2907.564844	1454.286060	I	<b>1230.614699</b>	615.810988	1213.588150	607.297713	1212.604134	606.805705	11
26	3085.606058	1543.306667	3068.579509	1534.793392	3067.595493	1534.301384	C	<b>1117.530635</b>	559.268956	1100.504086	550.755681	1099.520070	550.263673	10
27	3198.690122	<b>1599.848699</b>	3181.663573	1591.335424	3180.679557	1590.843416	L	<b>957.499986</b>	479.253631	940.473437	470.740357	939.489421	470.248349	9
28	3295.742886	1648.375081	3278.716337	1639.861806	3277.732321	1639.369798	P	<b>844.415922</b>	422.711599	827.389373	414.198325	<b>826.405357</b>	413.706317	8
29	3410.769829	1705.888552	3393.743280	1697.375278	3392.759264	1696.883270	D	<b>747.363158</b>	374.185217	730.336609	365.671943	<b>729.352593</b>	<b>365.179935</b>	7
30	3497.801857	1749.404566	3480.775308	1740.891292	3479.791292	1740.399284	S	<b>632.336215</b>	316.671746	615.309666	308.158471	614.325650	307.666463	6
31	3554.823321	1777.915298	3537.796772	1769.402024	3536.812756	1768.910016	G	<b>545.304187</b>	273.155732	528.277638	264.642457	<b>527.293622</b>	264.150449	5
32	3667.907385	1834.457330	3650.880836	1825.944056	3649.896820	1825.452048	L	488.282723	244.645000	471.256174	236.131725	470.272158	235.639717	4
33	3738.944499	1869.975887	3721.917950	1861.462613	3720.933934	1860.970605	A	375.198659	188.102968	358.172110	179.589693	357.188094	179.097685	3
34	3867.987092	1934.497184	3850.960543	1925.983909	3849.976527	1925.491901	E	<b>304.161545</b>	152.584411	287.134996	144.071136	286.150980	143.579128	2
35							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **STTDNDIALHLHAQPATLSQTIVPICLPDSGLAER**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
52.6	4041.091476	0.022580	<a href="#">STTDNDIALHLHAQPATLSQTIVPICLPDSGLAER</a>
31.5	4041.091476	0.022580	<a href="#">STTDNDIALHLHAQPATLSQTIVPICLPDSGLAER</a>

# **MASCOT** Mascot Search Results

## Peptide View

MS/MS Fragmentation of **QLAVLDK**

Found in **PROS\_HUMAN**, Vitamin K-dependent protein S OS=Homo sapiens GN=PROS1 PE=1 SV=1

Match to Query 13790: 1096.631228 from(549.322890,2+) rtinseconds(1985) index(45943)

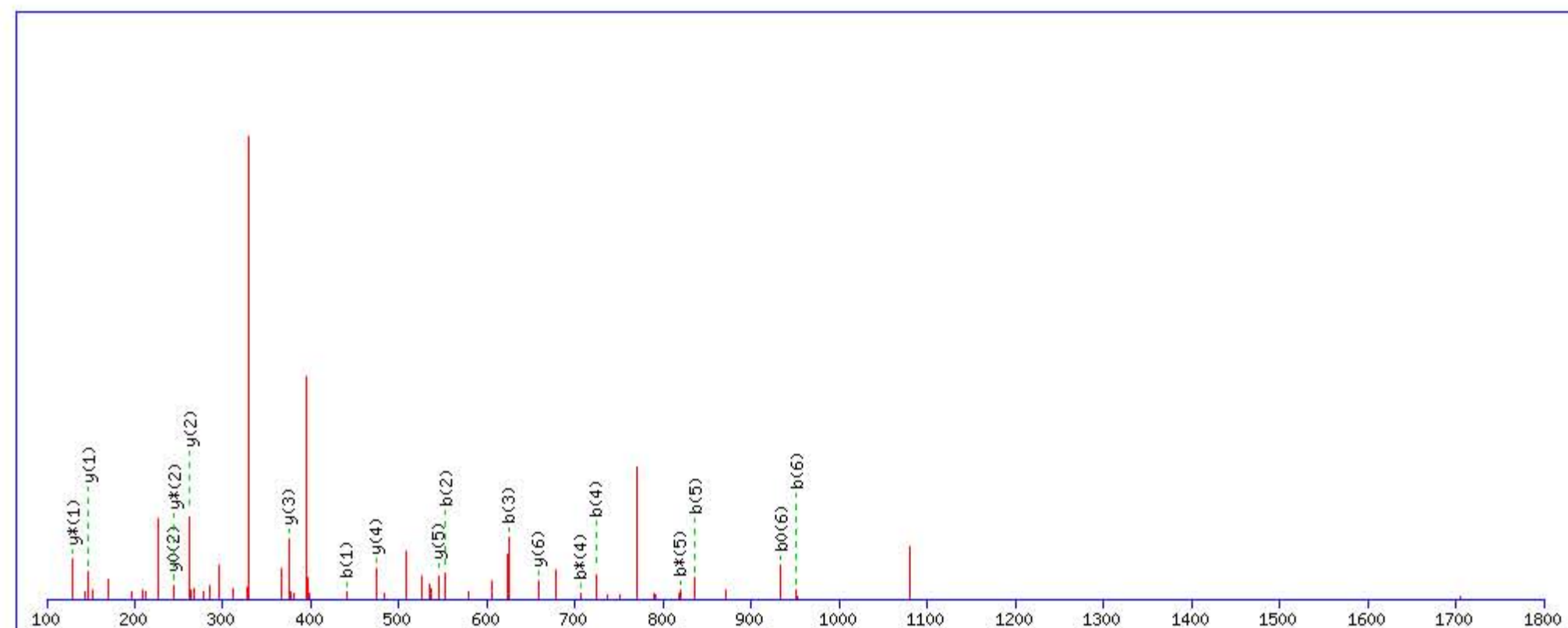
Title: Locus:1.1.1.3404.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1096.631439

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

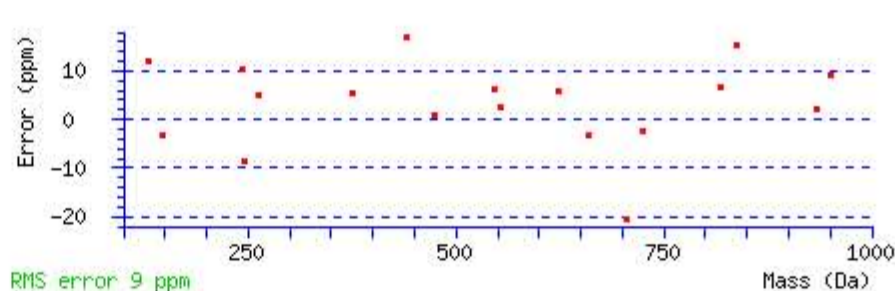
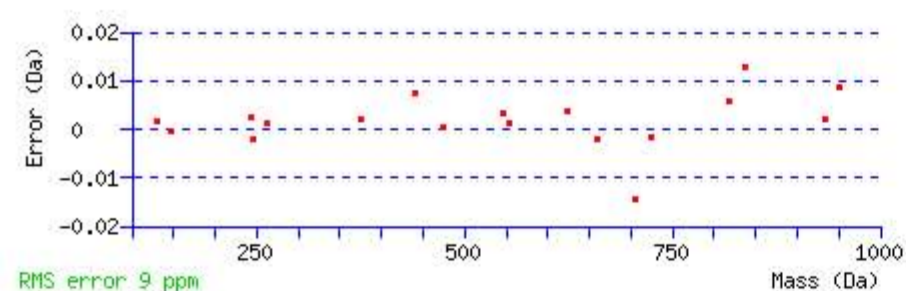
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.036

Matches : 18/60 fragment ions using 41 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>440.232602</b>	220.619939	423.206053	212.106664			<b>Q</b>							7
2	<b>553.316666</b>	277.161971	536.290117	268.648697			<b>L</b>	<b>658.413403</b>	329.710340	641.386854	321.197065	640.402838	320.705057	6
3	<b>624.353780</b>	312.680528	607.327231	304.167254			<b>A</b>	<b>545.329339</b>	273.168308	528.302790	264.655033	527.318774	264.163025	5
4	<b>723.422194</b>	362.214735	<b>706.395645</b>	353.701461			<b>V</b>	<b>474.292225</b>	237.649750	457.265676	229.136476	456.281660	228.644468	4
5	<b>836.506258</b>	418.756767	<b>819.479709</b>	410.243493			<b>L</b>	<b>375.223811</b>	188.115543	358.197262	179.602269	357.213246	179.110261	3
6	<b>951.533201</b>	476.270239	934.506652	467.756964	<b>933.522636</b>	467.264956	<b>D</b>	<b>262.139747</b>	131.573511	<b>245.113198</b>	123.060237	<b>244.129182</b>	122.568229	2
7							<b>K</b>	<b>147.112804</b>	74.060040	<b>130.086255</b>	65.546765			1



NCBI BLAST search of **QLAVLDK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
26.4	1096.631439	-0.000211	<a href="#">QLAVLDK</a>
15.5	1096.624054	0.007174	<a href="#">KPVDSVPLSR</a>
9.0	1096.624023	0.007205	<a href="#">IPRENLLDK</a>
6.7	1096.631439	-0.000211	<a href="#">GILQLDK</a>
4.4	1096.639297	-0.008069	<a href="#">AHVSPLFKAK</a>
3.8	1096.635269	-0.004041	<a href="#">SSSLVIHKAR</a>
1.8	1096.631439	-0.000211	<a href="#">ILGLDQK</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QSTNAYPDLR**

Found in **PROS\_HUMAN**, Vitamin K-dependent protein S OS=Homo sapiens GN=PROS1 PE=1 SV=1

Match to Query 26499: 1474.720948 from(738.367750,2+) rtinseconds(1789) index(30533)

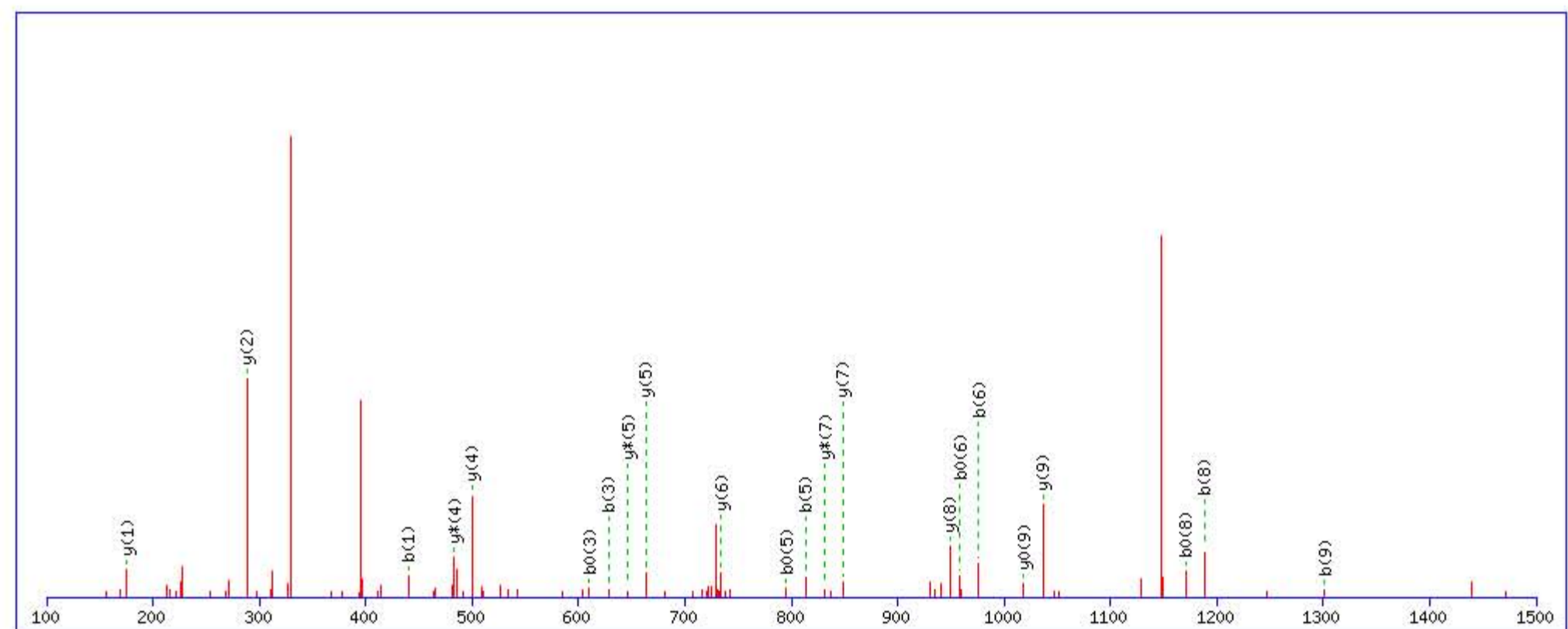
Title: Locus:1.1.1.3286.20 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1474.723831

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

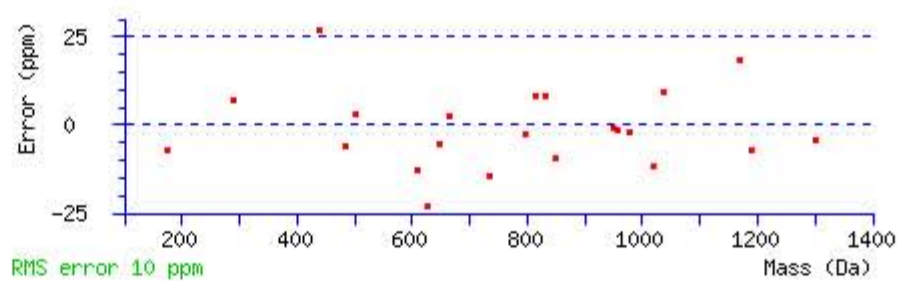
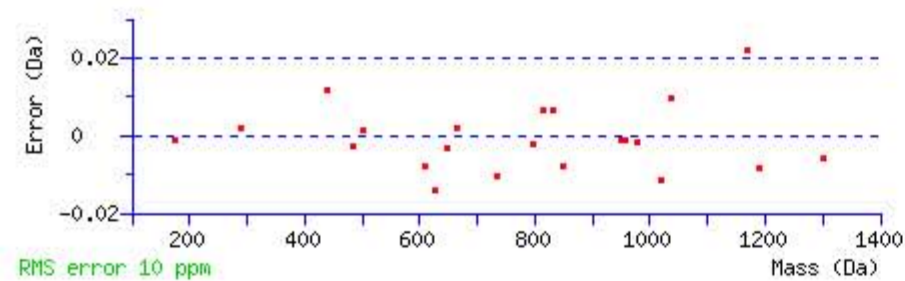
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 43 Expect: 0.00093

Matches : 22/102 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	<b>440.232602</b>	220.619939	423.206053	212.106664			Q							10
2	527.264630	264.135953	510.238081	255.622679	509.254065	255.130671	S	<b>1036.505800</b>	518.756538	1019.479251	510.243263	<b>1018.495235</b>	509.751255	9
3	<b>628.312309</b>	314.659793	611.285760	306.146518	<b>610.301744</b>	305.654510	T	<b>949.473772</b>	475.240524	932.447223	466.727249	931.463207	466.235241	8
4	742.355236	371.681256	725.328687	363.167982	724.344671	362.675974	N	<b>848.426093</b>	424.716684	<b>831.399544</b>	416.203410	830.415528	415.711402	7
5	<b>813.392350</b>	407.199813	796.365801	398.686538	<b>795.381785</b>	398.194530	A	<b>734.383166</b>	367.695221	717.356617	359.181946	716.372601	358.689938	6
6	<b>976.455679</b>	488.731477	959.429130	480.218203	<b>958.445114</b>	479.726195	Y	<b>663.346052</b>	332.176664	<b>646.319503</b>	323.663389	645.335487	323.171382	5
7	1073.508443	537.257860	1056.481894	528.744585	1055.497878	528.252577	P	<b>500.282723</b>	250.644999	<b>483.256174</b>	242.131725	482.272158	241.639717	4
8	<b>1188.535386</b>	594.771331	1171.508837	586.258057	<b>1170.524821</b>	585.766049	D	403.229959	202.118617	386.203410	193.605343	385.219394	193.113335	3
9	<b>1301.619450</b>	651.313363	1284.592901	642.800089	1283.608885	642.308080	L	<b>288.203016</b>	144.605146	271.176467	136.091871			2
10							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [QSTNAYPDLR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
43.3	1474.723831	-0.002883	<a href="#">QSTNAYPDLR</a>
14.9	1474.741592	-0.020644	<a href="#">SSLEHGSDVYLLR</a>
12.8	1474.721161	-0.000213	<a href="#">QSTHGERGHR</a>
7.2	1474.735092	-0.014144	<a href="#">SFCVLSQLTQHR</a>
6.1	1474.719803	0.001145	<a href="#">CVASNAAGADSLAIR</a>
5.1	1474.742462	-0.021514	<a href="#">QCKSEFPIR</a>
3.8	1474.738419	-0.017471	<a href="#">NNMEGLNVMGKLR</a>
3.5	1474.719788	0.001160	<a href="#">QQEELQMLR</a>
3.3	1474.716461	0.004487	<a href="#">AFSDSSQLTVHQR</a>
3.2	1474.723846	-0.002898	<a href="#">QQDGELVGYR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **SFQTGLFTAAR**

Found in **PROS\_HUMAN**, Vitamin K-dependent protein S OS=Homo sapiens GN=PROS1 PE=1 SV=1

Match to Query 27494: 1508.776428 from(755.395490,2+) rtinseconds(2323) index(47953)

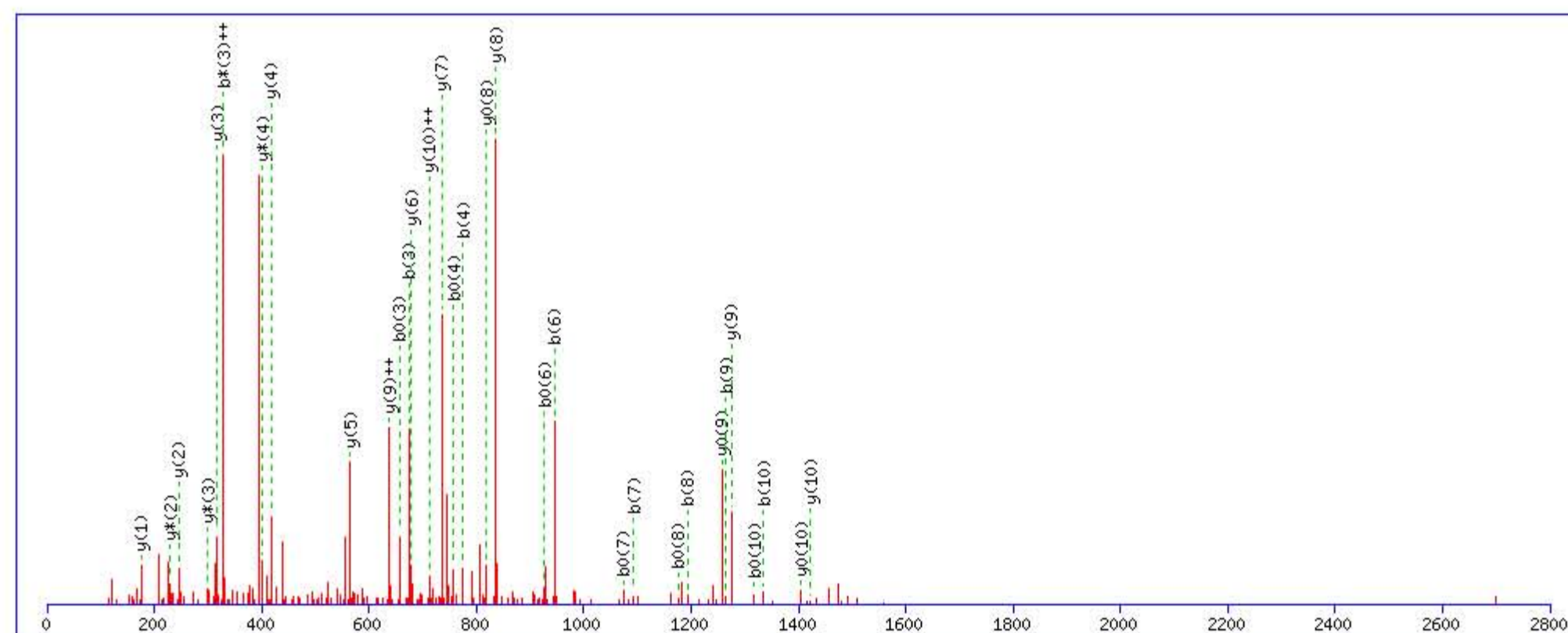
Title: Locus:1.1.1.3521.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from 0 to 2800 Da Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1508.780975

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

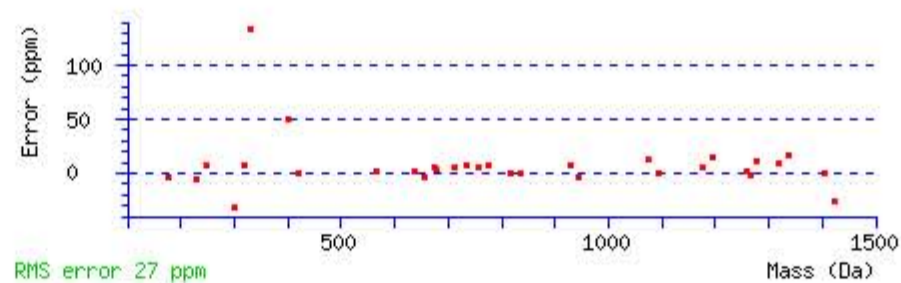
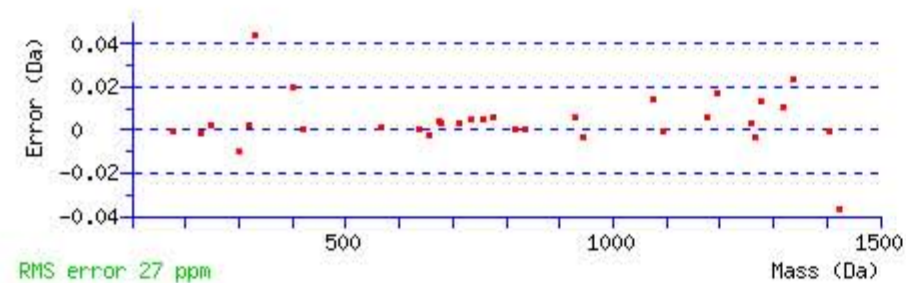
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 55 Expect: 2.2e-005

Matches : 32/110 fragment ions using 70 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	88.039304	44.523290			70.028739	35.518008	S							11
2	235.107718	118.057497			217.097153	109.052214	F	1422.756220	711.881748	1405.729671	703.368474	1404.745655	702.876465	10
3	674.333044	337.670160	657.306495	329.156885	656.322479	328.664877	Q	1275.687806	638.347541	1258.661257	629.834267	1257.677241	629.342259	9
4	775.380723	388.194000	758.354174	379.680725	757.370158	379.188717	T	836.462480	418.734878	819.435931	410.221604	818.451915	409.729596	8
5	832.402187	416.704732	815.375638	408.191457	814.391622	407.699449	G	735.414801	368.211039	718.388252	359.697764	717.404236	359.205756	7
6	945.486251	473.246764	928.459702	464.733489	927.475686	464.241481	L	678.393337	339.700307	661.366788	331.187032	660.382772	330.695024	6
7	1092.554665	546.780971	1075.528116	538.267696	1074.544100	537.775688	F	565.309273	283.158275	548.282724	274.645000	547.298708	274.152992	5
8	1193.602344	597.304810	1176.575795	588.791536	1175.591779	588.299528	T	418.240859	209.624067	401.214310	201.110793	400.230294	200.618785	4
9	1264.639458	632.823367	1247.612909	624.310093	1246.628893	623.818085	A	317.193180	159.100228	300.166631	150.586953			3
10	1335.676572	668.341924	1318.650023	659.828650	1317.666007	659.336642	A	246.156066	123.581671	229.129517	115.068396			2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **SFQTGLFTAAR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
55.0	1508.780975	-0.004547	<a href="#">SFQTGLFTAAR</a>
5.0	1508.762344	0.014084	<a href="#">EDFVPFTGEKKGR</a>
3.9	1508.798721	-0.022293	<a href="#">SSYGVAAPVDFLRK</a>
3.5	1508.776932	-0.000504	<a href="#">LMGADSLQLFRSR</a>
0.3	1508.759186	0.017242	<a href="#">QVHCGSEILR</a>
0.1	1508.765701	0.010727	<a href="#">TKPLSMLYVDNGR</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **IETISHEDLQR**

Found in **PROS\_HUMAN**, Vitamin K-dependent protein S OS=Homo sapiens GN=PROS1 PE=1 SV=1

Match to Query 32719: 1650.833022 from(551.284950,3+) rtinseconds(1648) index(29771)

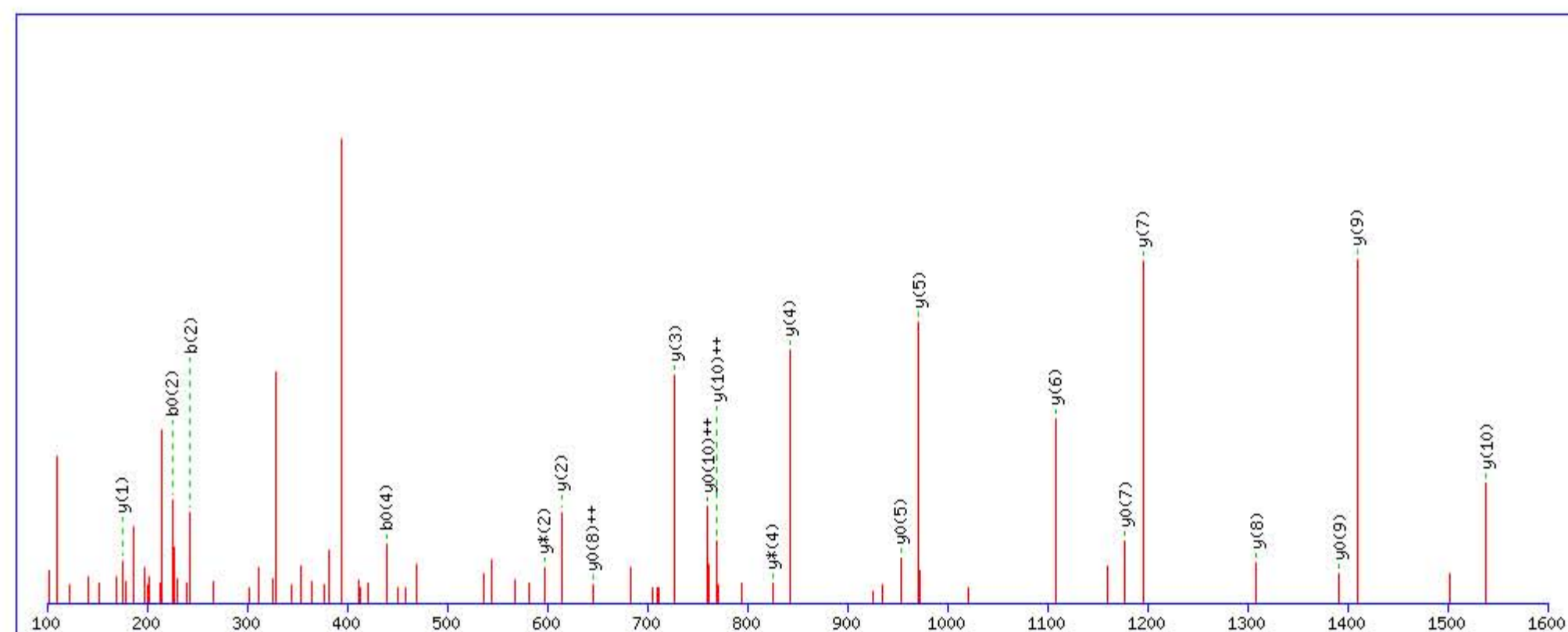
Title: Locus:1.1.1.3237.14 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1650.839920

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

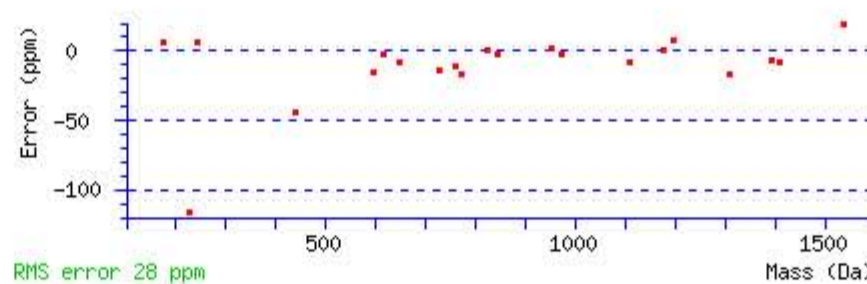
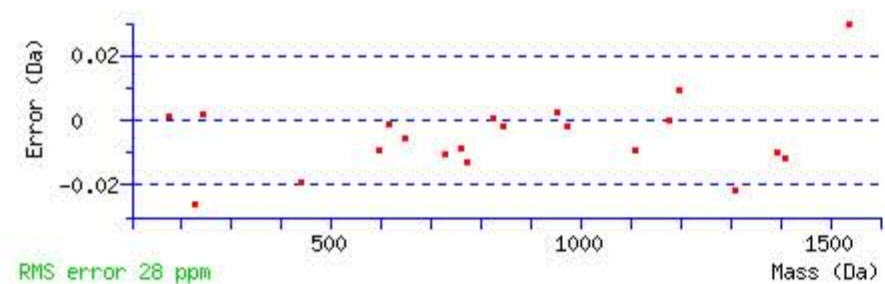
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 62 Expect: 3.6e-006

Matches : 21/94 fragment ions using 35 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							11
2	243.133933	122.070605			225.123368	113.065322	E	1538.763154	769.885215	1521.736605	761.371941	1520.752589	760.879933	10
3	344.181612	172.594444			326.171047	163.589162	T	1409.720561	705.363919	1392.694012	696.850644	1391.709996	696.358636	9
4	457.265676	229.136476			439.255111	220.131194	I	1308.672882	654.840079	1291.646333	646.326805	1290.662317	645.834797	8
5	544.297704	272.652490			526.287139	263.647208	S	1195.588818	598.298047	1178.562269	589.784773	1177.578253	589.292764	7
6	681.356616	341.181946			663.346051	332.176664	H	1108.556790	554.782033	1091.530241	546.268759	1090.546225	545.776751	6
7	810.399209	405.703243			792.388644	396.697960	E	971.497878	486.252577	954.471329	477.739303	953.487313	477.247295	5
8	925.426152	463.216714			907.415587	454.211432	D	842.455285	421.731281	825.428736	413.218006	824.444720	412.725998	4
9	1038.510216	519.758746			1020.499651	510.753463	L	727.428342	364.217809	710.401793	355.704535			3
10	1477.735542	739.371409	1460.708993	730.858135	1459.724977	730.366127	Q	614.344278	307.675777	597.317729	299.162503			2
11							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **IETISHEDLQR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
61.7	1650.839920	-0.006898	<a href="#">IETISHEDLQR</a>
3.5	1650.847305	-0.014283	<a href="#">LLFQELMSMSIAPR</a>
3.0	1650.821274	0.011748	<a href="#">ELSRLDKELDDYR</a>

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

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **IQALSLCSDQQSHLEFR**

Found in **PROS\_HUMAN**, Vitamin K-dependent protein S OS=Homo sapiens GN=PROS1 PE=1 SV=1

Match to Query 45751: 2342.152902 from(781.724910,3+) rtinseconds(2246) index(47540)

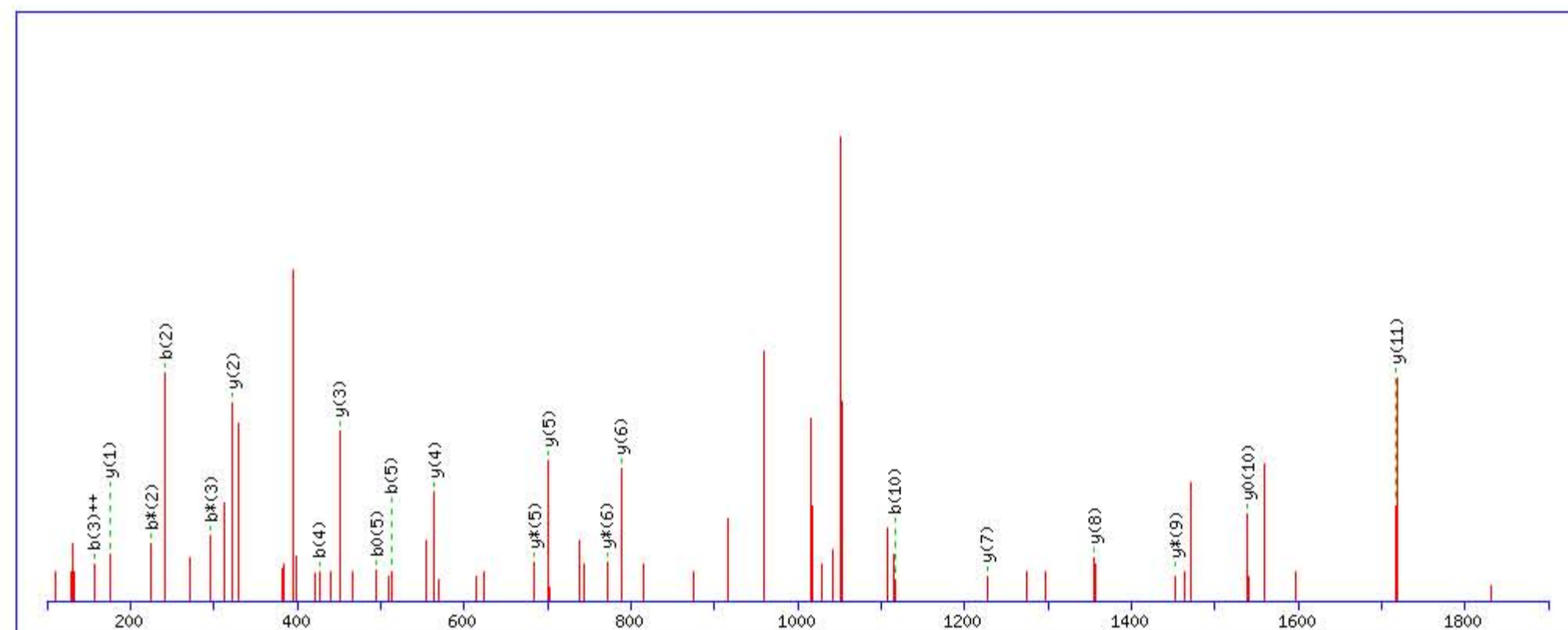
Title: Locus:1.1.1.3494.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2342.151108

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

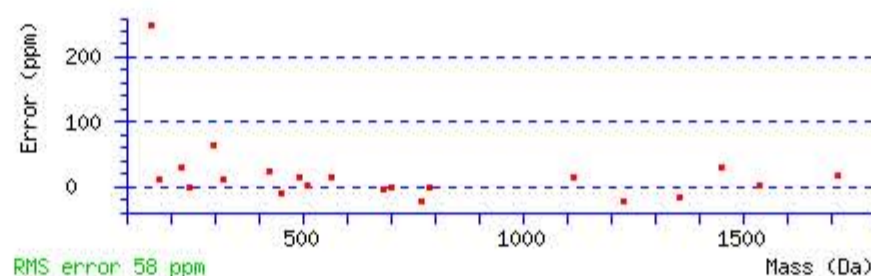
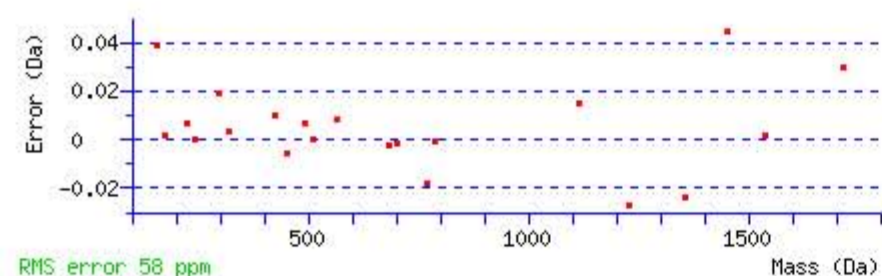
Variable modifications:

Q11 : Biotin:Thermo-21345 (Q)

Ions Score: 33 Expect: 0.014

Matches : 21/178 fragment ions using 47 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							17
2	<b>242.149918</b>	121.578597	<b>225.123369</b>	113.065323			Q	2230.074335	1115.540805	2213.047786	1107.027531	2212.063770	1106.535523	16
3	313.187032	<b>157.097154</b>	<b>296.160483</b>	148.583879			A	2102.015757	1051.511516	2084.989208	1042.998242	2084.005192	1042.506234	15
4	<b>426.271096</b>	213.639186	409.244547	205.125912			L	2030.978643	1015.992959	2013.952094	1007.479685	2012.968078	1006.987677	14
5	<b>513.303124</b>	257.155200	496.276575	248.641926	<b>495.292559</b>	248.149918	S	1917.894579	959.450927	1900.868030	950.937653	1899.884014	950.445645	13
6	626.387188	313.697232	609.360639	305.183958	608.376623	304.691950	L	1830.862551	915.934913	1813.836002	907.421639	1812.851986	906.929631	12
7	786.417837	393.712557	769.391288	385.199282	768.407272	384.707274	C	<b>1717.778487</b>	859.392881	1700.751938	850.879607	1699.767922	850.387599	11
8	873.449865	437.228571	856.423316	428.715296	855.439300	428.223288	S	1557.747838	779.377557	1540.721289	770.864282	<b>1539.737273</b>	770.372274	10
9	988.476808	494.742042	971.450259	486.228768	970.466243	485.736760	D	1470.715810	735.861543	<b>1453.689261</b>	727.348268	1452.705245	726.856260	9
10	<b>1116.535386</b>	558.771331	1099.508837	550.258057	1098.524821	549.766049	Q	<b>1355.688867</b>	678.348071	1338.662318	669.834797	1337.678302	669.342789	8
11	1555.760712	778.383994	1538.734163	769.870720	1537.750147	769.378712	Q	<b>1227.630289</b>	614.318782	1210.603740	605.805508	1209.619724	605.313500	7
12	1642.792740	821.900008	1625.766191	813.386734	1624.782175	812.894726	S	<b>788.404963</b>	394.706119	<b>771.378414</b>	386.192845	770.394398	385.700837	6
13	1779.851652	890.429464	1762.825103	881.916190	1761.841087	881.424182	H	<b>701.372935</b>	351.190105	<b>684.346386</b>	342.676831	683.362370	342.184823	5
14	1892.935716	946.971496	1875.909167	938.458222	1874.925151	937.966213	L	<b>564.314023</b>	282.660649	547.287474	274.147375	546.303458	273.655367	4
15	2021.978309	1011.492793	2004.951760	1002.979518	2003.967744	1002.487510	E	<b>451.229959</b>	226.118617	434.203410	217.605343	433.219394	217.113335	3
16	2169.046723	1085.026999	2152.020174	1076.513725	2151.036158	1076.021717	F	<b>322.187366</b>	161.597321	305.160817	153.084046			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **IQALSLCSDQQSHLEFR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
33.1	2342.151108	0.001794	<a href="#">IQALSLCSDQQSHLEFR</a>
30.5	2342.151108	0.001794	<a href="#">IQALSLCSDQQSHLEFR</a>
10.2	2342.151108	0.001794	<a href="#">IQALSLCSDQQSHLEFR</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **IQALSLCSDQQSHLEFR**

Found in **PROS\_HUMAN**, Vitamin K-dependent protein S OS=Homo sapiens GN=PROS1 PE=1 SV=1

Match to Query 45756: 2342.177428 from(1172.095990,2+) rtinseconds(2194) index(61620)

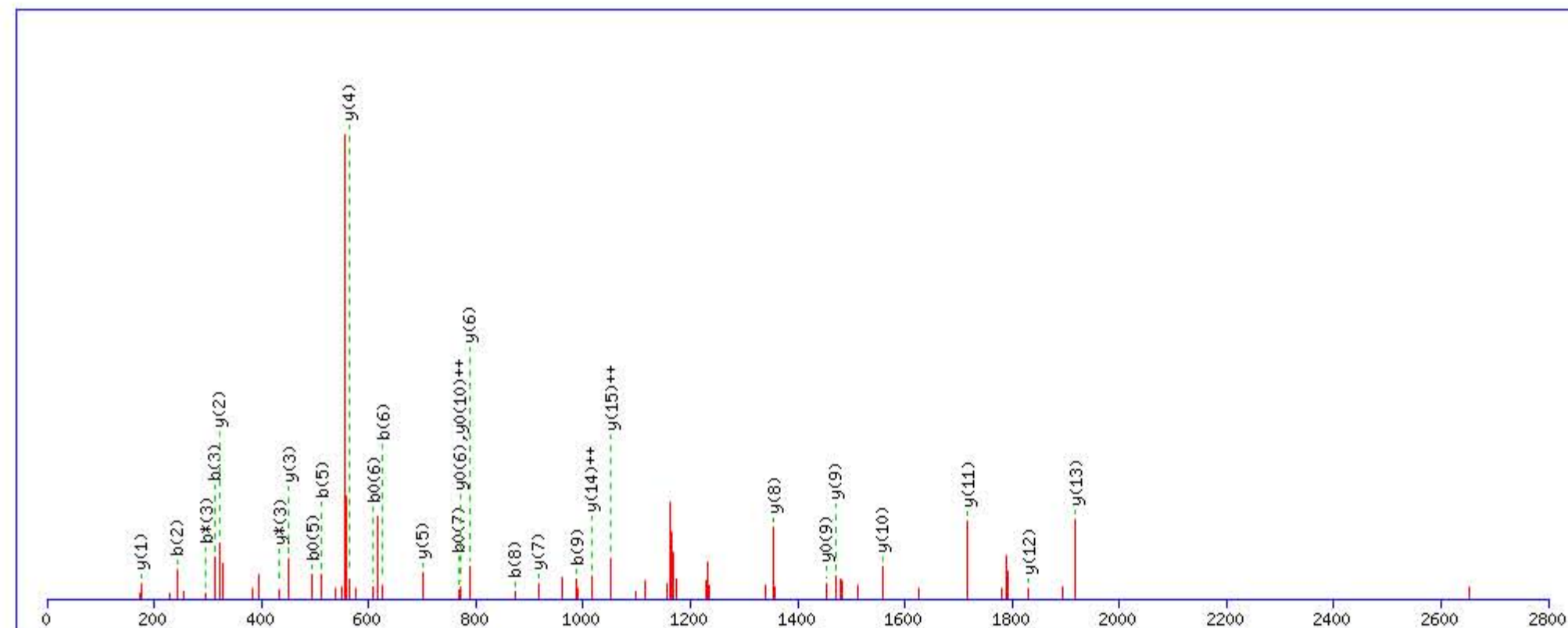
Title: Locus:1.1.1.1675.22 File:"2013-07-02 CLN FXIII 180 min 3rd FT.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2342.151108

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

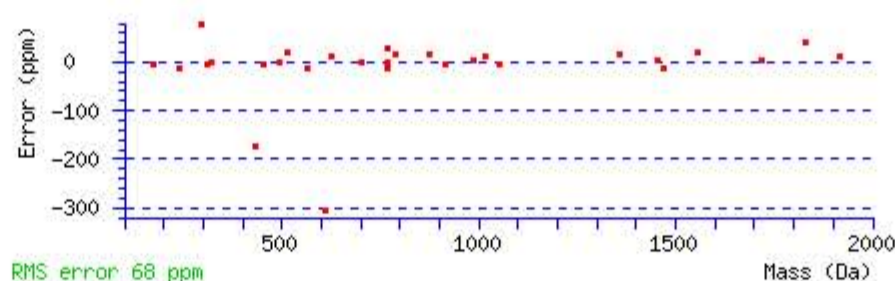
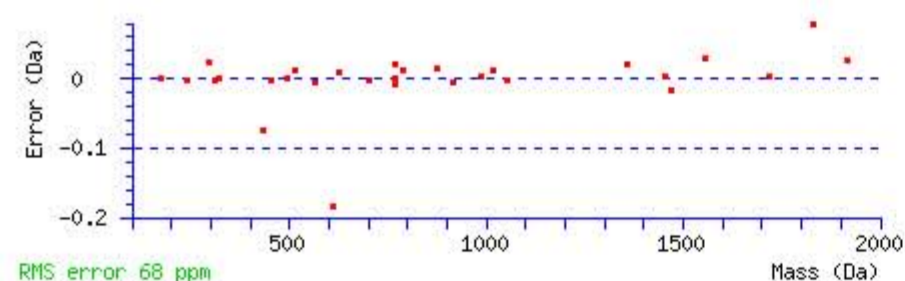
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 54 Expect: 0.00011

Matches : 29/178 fragment ions using 74 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							17
2	<b>242.149918</b>	121.578597	225.123369	113.065323			Q	2230.074335	1115.540805	2213.047786	1107.027531	2212.063770	1106.535523	16
3	<b>313.187032</b>	157.097154	<b>296.160483</b>	148.583879			A	2102.015757	<b>1051.511516</b>	2084.989208	1042.998242	2084.005192	1042.506234	15
4	426.271096	213.639186	409.244547	205.125912			L	2030.978643	<b>1015.992959</b>	2013.952094	1007.479685	2012.968078	1006.987677	14
5	<b>513.303124</b>	257.155200	496.276575	248.641926	<b>495.292559</b>	248.149918	S	<b>1917.894579</b>	959.450927	1900.868030	950.937653	1899.884014	950.445645	13
6	<b>626.387188</b>	313.697232	609.360639	305.183958	<b>608.376623</b>	304.691950	L	<b>1830.862551</b>	915.934913	1813.836002	907.421639	1812.851986	906.929631	12
7	786.417837	393.712557	769.391288	385.199282	<b>768.407272</b>	384.707274	C	<b>1717.778487</b>	859.392881	1700.751938	850.879607	1699.767922	850.387599	11
8	<b>873.449865</b>	437.228571	856.423316	428.715296	855.439300	428.223288	S	<b>1557.747838</b>	779.377557	1540.721289	770.864282	1539.737273	<b>770.372274</b>	10
9	<b>988.476808</b>	494.742042	971.450259	486.228768	970.466243	485.736760	D	<b>1470.715810</b>	735.861543	1453.689261	727.348268	<b>1452.705245</b>	726.856260	9
10	1427.702134	714.354705	1410.675585	705.841431	1409.691569	705.349422	Q	<b>1355.688867</b>	678.348071	1338.662318	669.834797	1337.678302	669.342789	8
11	1555.760712	778.383994	1538.734163	769.870720	1537.750147	769.378712	Q	<b>916.463541</b>	458.735408	899.436992	450.222134	898.452976	449.730126	7
12	1642.792740	821.900008	1625.766191	813.386734	1624.782175	812.894726	S	<b>788.404963</b>	394.706119	771.378414	386.192845	<b>770.394398</b>	385.700837	6
13	1779.851652	890.429464	1762.825103	881.916190	1761.841087	881.424182	H	<b>701.372935</b>	351.190105	684.346386	342.676831	683.362370	342.184823	5
14	1892.935716	946.971496	1875.909167	938.458222	1874.925151	937.966213	L	<b>564.314023</b>	282.660649	547.287474	274.147375	546.303458	273.655367	4
15	2021.978309	1011.492793	2004.951760	1002.979518	2003.967744	1002.487510	E	<b>451.229959</b>	226.118617	<b>434.203410</b>	217.605343	433.219394	217.113335	3
16	2169.046723	1085.026999	2152.020174	1076.513725	2151.036158	1076.021717	F	<b>322.187366</b>	161.597321	305.160817	153.084046			2
17							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **IQALSLCSDQQSHLEFR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
54.4	2342.151108	0.026320	<a href="#">IQALSLCSDQQSHLEFR</a>
46.4	2342.151108	0.026320	<a href="#">IQALSLCSDQQSHLEFR</a>
6.8	2342.151108	0.026320	<a href="#">IQALSLCSDQQSHLEFR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **APDLQDLPWQVK**

Found in **PROZ\_HUMAN**, Vitamin K-dependent protein Z OS=Homo sapiens GN=PROZ PE=1 SV=2

Match to Query 34059: 1719.909528 from(860.962040,2+) rtinseconds(2544) index(49039)

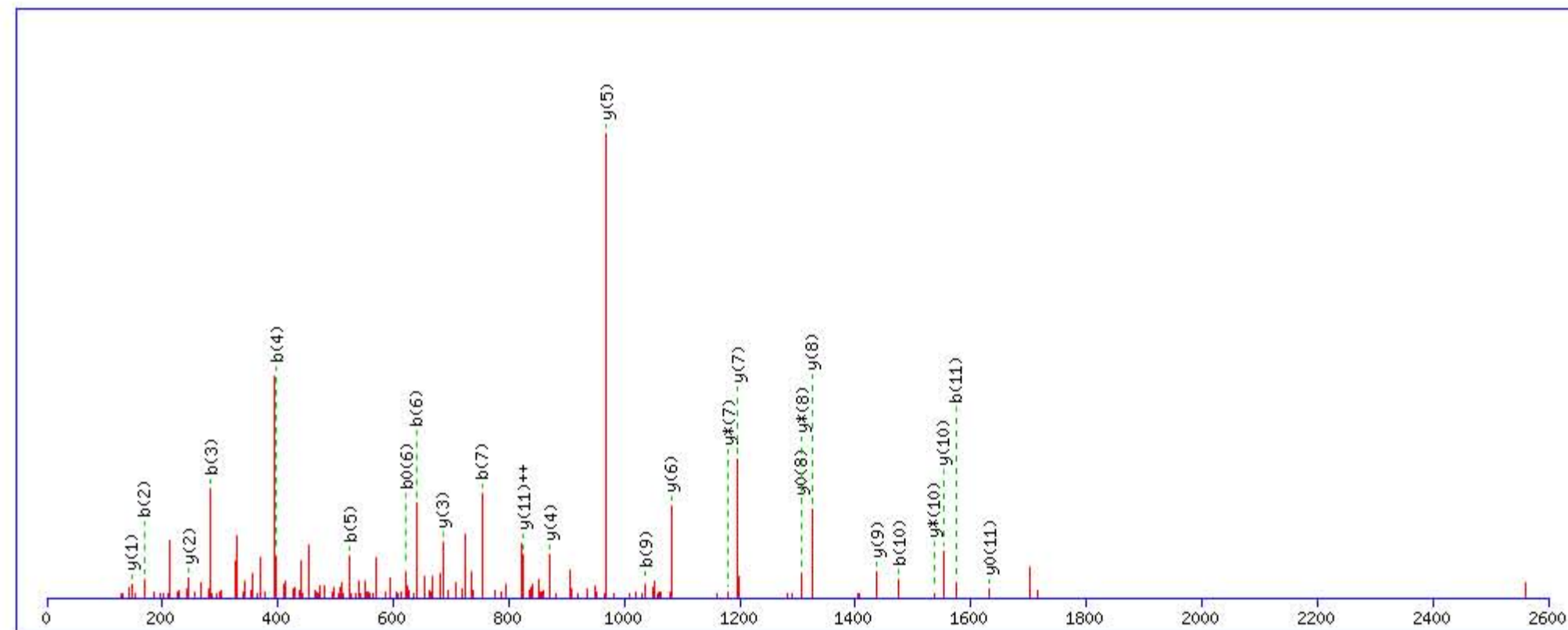
Title: Locus:1.1.1.3598.4 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1719.901810

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

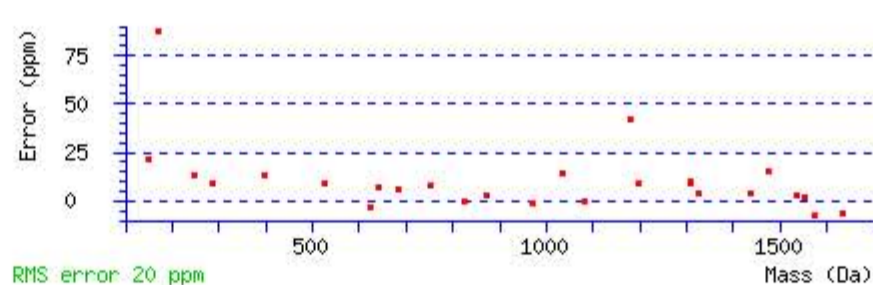
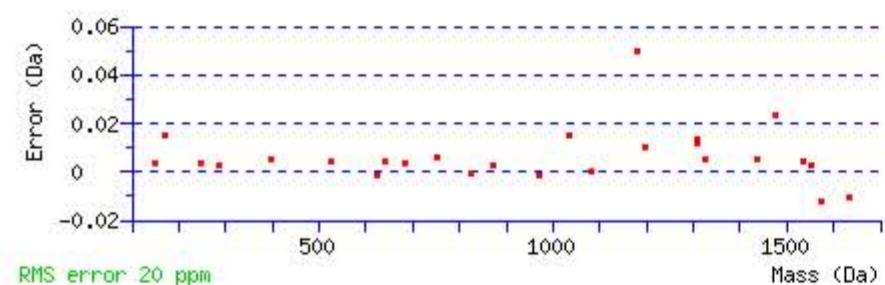
Variable modifications:

Q10 : Biotin:Thermo-21345 (Q)

Ions Score: 63 Expect: 1.1e-005

Matches : 26/108 fragment ions using 46 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.044390	36.525833					A							12
2	<b>169.097154</b>	85.052215					P	1649.871977	<b>825.439627</b>	1632.845428	816.926352	<b>1631.861412</b>	816.434344	11
3	<b>284.124097</b>	142.565687			266.113532	133.560404	D	<b>1552.819213</b>	776.913245	<b>1535.792664</b>	768.399970	1534.808648	767.907962	10
4	<b>397.208161</b>	199.107719			379.197596	190.102436	L	<b>1437.792270</b>	719.399773	1420.765721	710.886499	1419.781705	710.394491	9
5	<b>525.266739</b>	263.137008	508.240190	254.623733	507.256174	254.131725	Q	<b>1324.708206</b>	662.857741	<b>1307.681657</b>	654.344467	<b>1306.697641</b>	653.852459	8
6	<b>640.293682</b>	320.650479	623.267133	312.137205	<b>622.283117</b>	311.645197	D	<b>1196.649628</b>	598.828452	<b>1179.623079</b>	590.315178	1178.639063	589.823170	7
7	<b>753.377746</b>	377.192511	736.351197	368.679237	735.367181	368.187229	L	<b>1081.622685</b>	541.314981	1064.596136	532.801706			6
8	850.430510	425.718893	833.403961	417.205619	832.419945	416.713611	P	<b>968.538621</b>	484.772949	951.512072	476.259674			5
9	<b>1036.509823</b>	518.758550	1019.483274	510.245275	1018.499258	509.753267	W	<b>871.485857</b>	436.246567	854.459308	427.733292			4
10	<b>1475.735149</b>	738.371213	1458.708600	729.857938	1457.724584	729.365930	Q	<b>685.406544</b>	343.206910	668.379995	334.693636			3
11	<b>1574.803563</b>	787.905420	1557.777014	779.392145	1556.792998	778.900137	V	<b>246.181218</b>	123.594247	229.154669	115.080973			2
12							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of [APDLQDLPWQVK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
62.8	1719.901810	0.007718	<a href="#">APDLQDLPWQVK</a>
16.0	1719.901810	0.007718	<a href="#">APDLQDLPWQVK</a>
11.8	1719.907715	0.001813	<a href="#">VLAGVVMITGIDVKA</a>
4.3	1719.897766	0.011762	<a href="#">LVHNKPPTMKPEGEK</a>

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



# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **QCVPHDQCACGVLTSK**

Found in **PROZ\_HUMAN**, Vitamin K-dependent protein Z OS=Homo sapiens GN=PROZ PE=1 SV=2

Match to Query 45084: 2299.016742 from(767.346190,3+) rtinseconds(1658) index(43917)

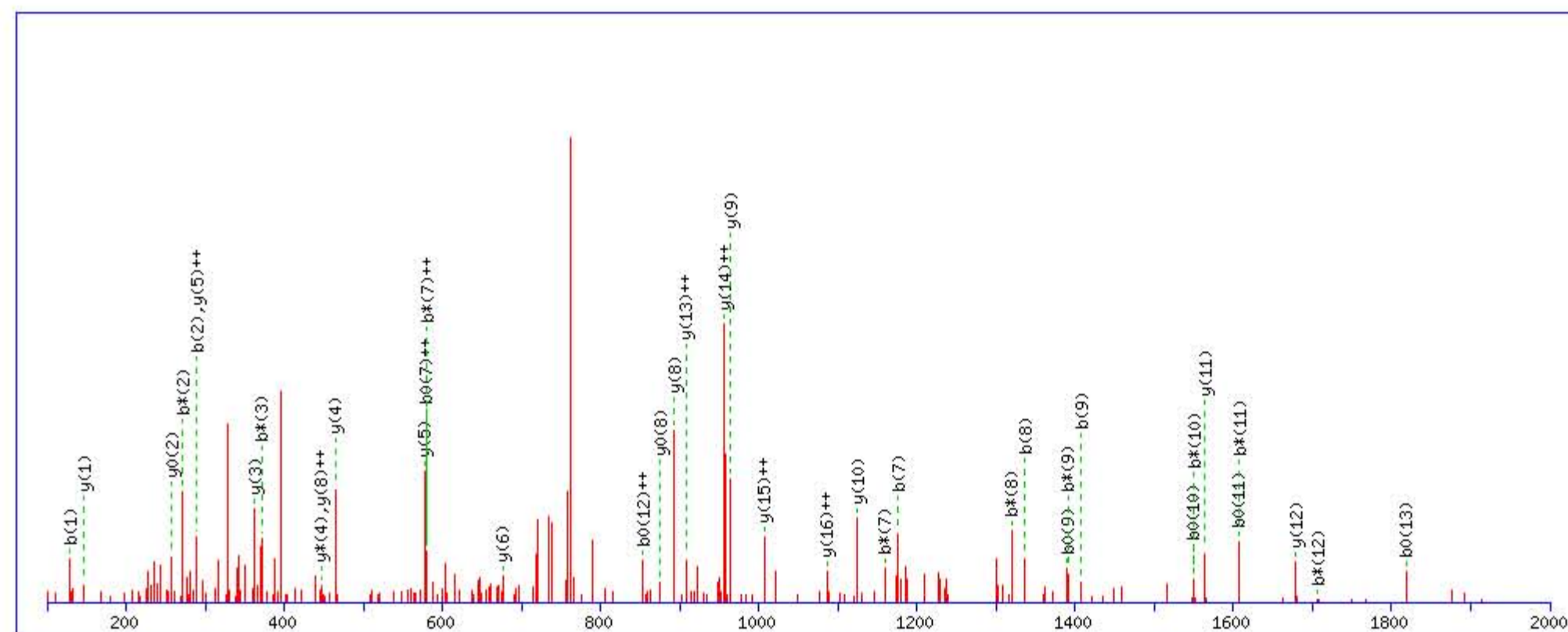
Title: Locus:1.1.1.3290.8 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2299.021790

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

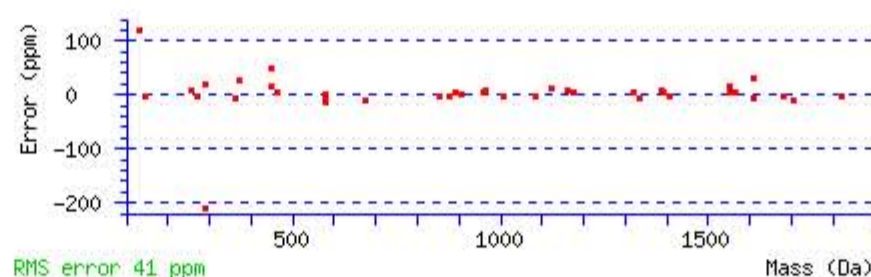
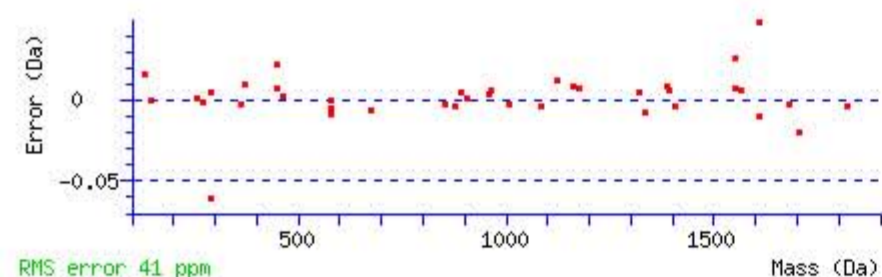
Variable modifications:

Q7 : Biotin:Thermo-21345 (Q)

Ions Score: 48 Expect: 0.00012

Matches : 39/180 fragment ions using 72 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.065854	65.036565	112.039305	56.523291			Q							17
2	289.096503	145.051890	272.069954	136.538615			C	2171.970466	1086.488871	2154.943917	1077.975596	2153.959901	1077.483588	16
3	388.164917	194.586097	371.138368	186.072822			V	2011.939817	1006.473547	1994.913268	997.960272	1993.929252	997.468264	15
4	485.217681	243.112479	468.191132	234.599204			P	1912.871403	956.939340	1895.844854	948.426065	1894.860838	947.934057	14
5	622.276593	311.641935	605.250044	303.128660			H	1815.818639	908.412958	1798.792090	899.899683	1797.808074	899.407675	13
6	737.303536	369.155406	720.276987	360.642132	719.292971	360.150124	D	1678.759727	839.883502	1661.733178	831.370227	1660.749162	830.878219	12
7	1176.528862	588.768069	1159.502313	580.254795	1158.518297	579.762786	Q	1563.732784	782.370030	1546.706235	773.856756	1545.722219	773.364748	11
8	1336.559511	668.783393	1319.532962	660.270119	1318.548946	659.778111	C	1124.507458	562.757367	1107.480909	554.244093	1106.496893	553.752085	10
9	1407.596625	704.301950	1390.570076	695.788676	1389.586060	695.296668	A	964.476809	482.742043	947.450260	474.228768	946.466244	473.736760	9
10	1567.627274	784.317275	1550.600725	775.804001	1549.616709	775.311992	C	893.439695	447.223486	876.413146	438.710211	875.429130	438.218203	8
11	1624.648738	812.828007	1607.622189	804.314732	1606.638173	803.822724	G	733.409046	367.208161	716.382497	358.694887	715.398481	358.202879	7
12	1723.717152	862.362214	1706.690603	853.848940	1705.706587	853.356931	V	676.387582	338.697429	659.361033	330.184155	658.377017	329.692147	6
13	1836.801216	918.904246	1819.774667	910.390971	1818.790651	909.898963	L	577.319168	289.163222	560.292619	280.649948	559.308603	280.157940	5
14	1937.848895	969.428085	1920.822346	960.914811	1919.838330	960.422803	T	464.235104	232.621190	447.208555	224.107916	446.224539	223.615908	4
15	2024.880923	1012.944100	2007.854374	1004.430825	2006.870358	1003.938817	S	363.187425	182.097351	346.160876	173.584076	345.176860	173.092068	3
16	2153.923516	1077.465396	2136.896967	1068.952121	2135.912951	1068.460113	E	276.155397	138.581337	259.128848	130.068062	258.144832	129.576054	2
17							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of **QCVPHDQCACGVLTSK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

## All matches to this query

Score	Mr(calc):	Delta	Sequence
47.5	2299.021790	-0.005048	<a href="#">QCVPHDQCACGVLTSK</a>
24.6	2299.021790	-0.005048	<a href="#">QCVPHDQCACGVLTSK</a>

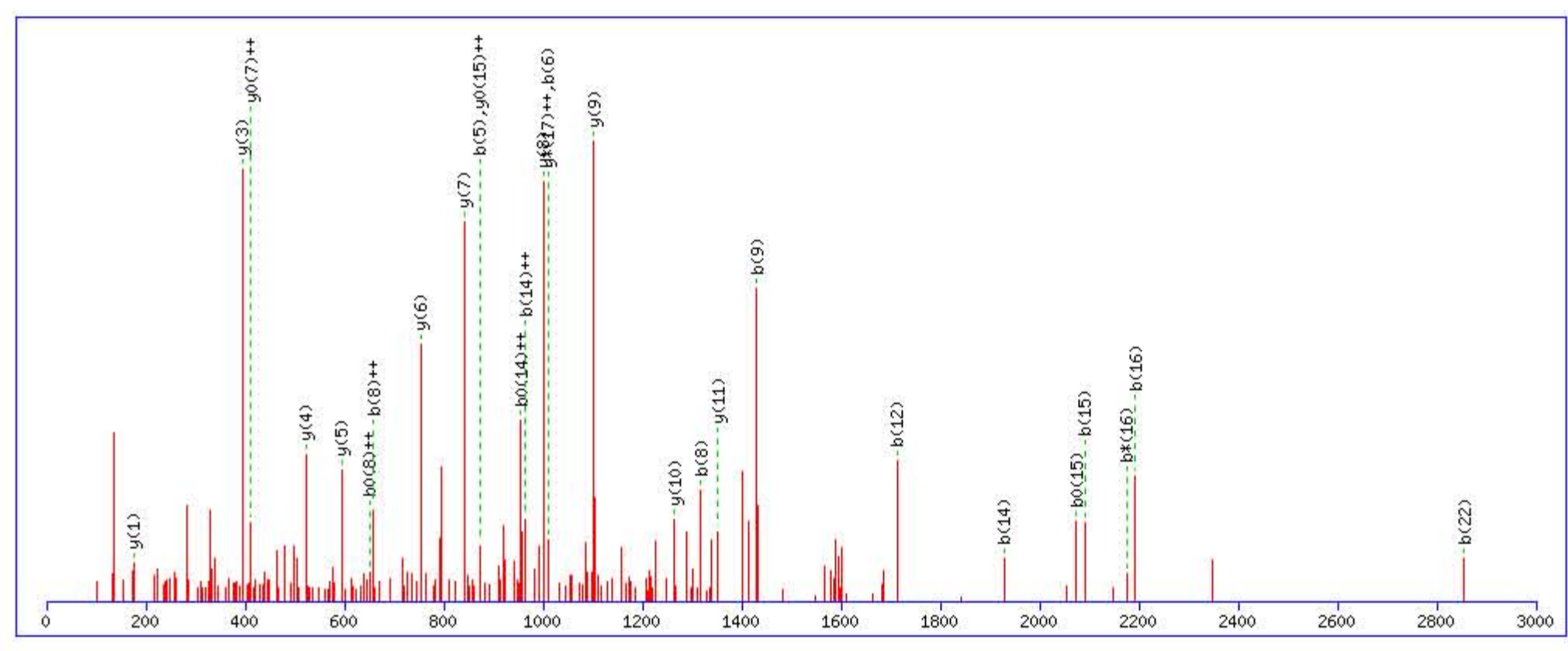
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **TDGCQHFCLPGQESYTCSCAQGYR**  
 Found in **PROZ\_HUMAN**, Vitamin K-dependent protein Z OS=Homo sapiens GN=PROZ PE=1 SV=2

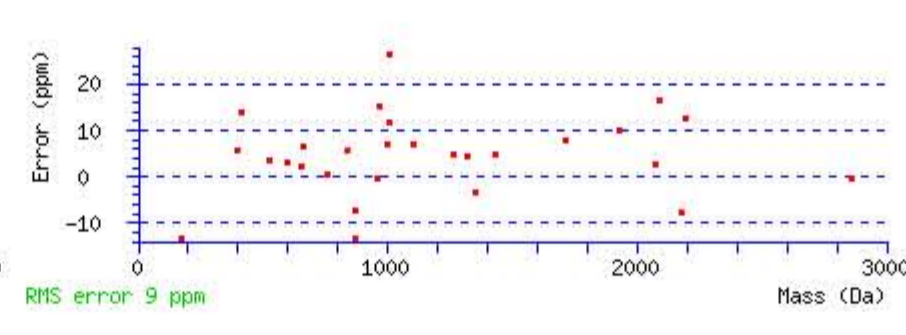
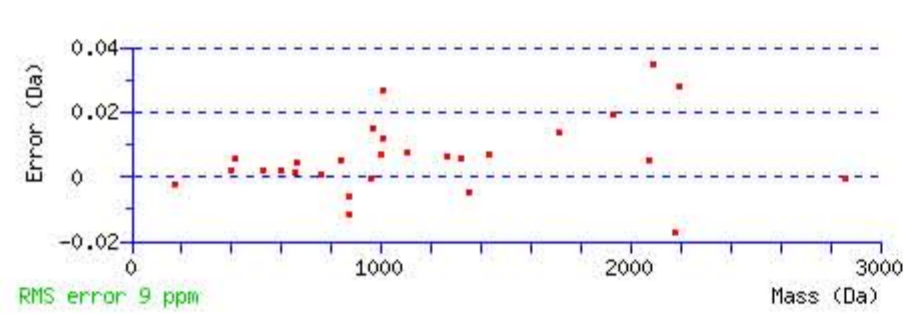
Match to Query 55417: 3192.305616 from(799.083680,4+) rtinseconds(2067) index(46433)  
 Title: Locus:1.1.1.3432.12 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3192.298050  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q5 : Biotin:Thermo-21345 (Q)  
 Ions Score: 74 Expect: 4.7e-008  
 Matches : 28/256 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	102.054955	51.531116			84.044390	42.525833	T							24
2	217.081898	109.044587			199.071333	100.039304	D	3092.257619	1546.632447	3075.231070	1538.119173	3074.247054	1537.627165	23
3	274.103362	137.555319			256.092797	128.550037	G	2977.230676	1489.118976	2960.204127	1480.605701	2959.220111	1480.113693	22
4	434.134011	217.570644			416.123446	208.565361	C	2920.209212	1460.608244	2903.182663	1452.094969	2902.198647	1451.602961	21
5	<b>873.359337</b>	437.183307	856.332788	428.670032	855.348772	428.178024	Q	2760.178563	1380.592919	2743.152014	1372.079645	2742.167998	1371.587637	20
6	<b>1010.418249</b>	505.712763	993.391700	497.199488	992.407684	496.707480	H	2320.953237	1160.980256	2303.926688	1152.466982	2302.942672	1151.974974	19
7	1157.486663	579.246970	1140.460114	570.733695	1139.476098	570.241687	F	2183.894325	1092.450800	2166.867776	1083.937526	2165.883760	1083.445518	18
8	<b>1317.517312</b>	<b>659.262294</b>	1300.490763	650.749020	1299.506747	<b>650.257012</b>	C	2036.825911	1018.916594	2019.799362	<b>1010.403319</b>	2018.815346	1009.911311	17
9	<b>1430.601376</b>	715.804326	1413.574827	707.291052	1412.590811	706.799044	L	1876.795262	938.901269	1859.768713	930.387994	1858.784697	929.895986	16
10	1527.654140	764.330708	1510.627591	755.817434	1509.643575	755.325426	P	1763.711198	882.359237	1746.684649	873.845963	1745.700633	<b>873.353954</b>	15
11	1584.675604	792.841440	1567.649055	784.328166	1566.665039	783.836158	G	1666.658434	833.832855	1649.631885	825.319581	1648.647869	824.827572	14
12	<b>1712.734182</b>	856.870729	1695.707633	848.357455	1694.723617	847.865446	Q	1609.636970	805.322123	1592.610421	796.808849	1591.626405	796.316841	13
13	1841.776775	921.392026	1824.750226	912.878751	1823.766210	912.386743	E	1481.578392	741.292834	1464.551843	732.779560	1463.567827	732.287552	12
14	<b>1928.808803</b>	<b>964.908040</b>	1911.782254	956.394765	1910.798238	<b>955.902757</b>	S	<b>1352.535799</b>	676.771538	1335.509250	668.258263	1334.525234	667.766255	11
15	<b>2091.872132</b>	1046.439704	2074.845583	1037.926429	<b>2073.861567</b>	1037.434421	Y	<b>1265.503771</b>	633.255523	1248.477222	624.742249	1247.493206	624.250241	10
16	<b>2192.919811</b>	1096.963543	<b>2175.893262</b>	1088.450269	2174.909246	1087.958261	T	<b>1102.440442</b>	551.723859	1085.413893	543.210584	1084.429877	542.718576	9
17	2352.950460	1176.978868	2335.923911	1168.465593	2334.939895	1167.973585	C	<b>1001.392763</b>	501.200020	984.366214	492.686745	983.382198	492.194737	8
18	2439.982488	1220.494882	2422.955939	1211.981607	2421.971923	1211.489599	S	<b>841.362114</b>	421.184695	824.335565	412.671421	823.351549	<b>412.179413</b>	7
19	2600.013137	1300.510206	2582.986588	1291.996932	2582.002572	1291.504924	C	<b>754.330086</b>	377.668681	737.303537	369.155407			6
20	2671.050251	1336.028763	2654.023702	1327.515489	2653.039686	1327.023481	A	<b>594.299437</b>	297.653357	577.272888	289.140082			5
21	2799.108829	1400.058052	2782.082280	1391.544778	2781.098264	1391.052770	Q	<b>523.262323</b>	262.134800	506.235774	253.621525			4
22	<b>2856.130293</b>	1428.568784	2839.103744	1420.055510	2838.119728	1419.563502	G	<b>395.203745</b>	198.105510	378.177196	189.592236			3
23	3019.193622	1510.100449	3002.167073	1501.587174	3001.183057	1501.095166	Y	338.182281	169.594778	321.155732	161.081504			2
24							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **TDGCQHFCLPGQESYTCSCAQGYR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
73.9	3192.298050	0.007566	<a href="#">TDGCQHFCLPGQESYTCSCAQGYR</a>
41.5	3192.298050	0.007566	<a href="#">TDGCQHFCLPGQESYTCSCAQGYR</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **QPQFISR**

Found in **VTNC\_HUMAN**, Vitronectin OS=Homo sapiens GN=VTN PE=1 SV=1

Match to Query 17437: 1185.630748 from(593.822650,2+) rtinseconds(1796) index(44727)

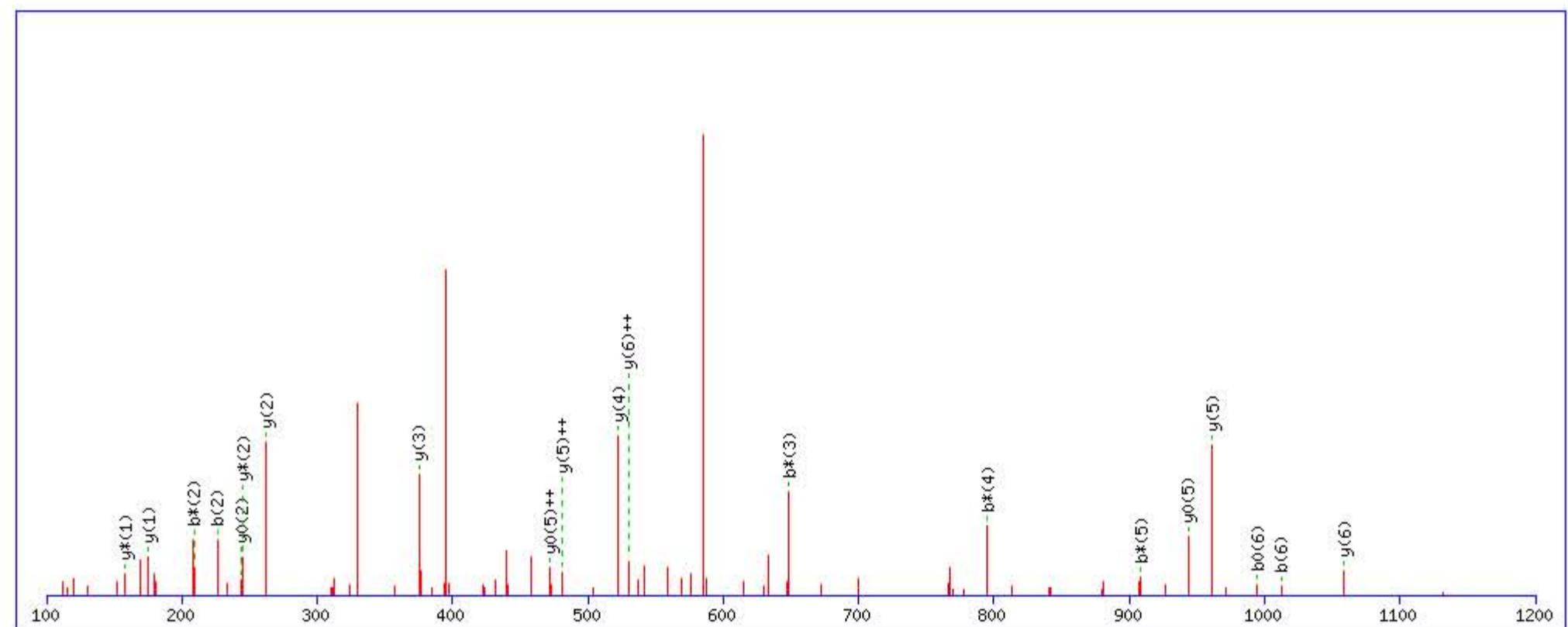
Title: Locus:1.1.1.3338.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1185.632843

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

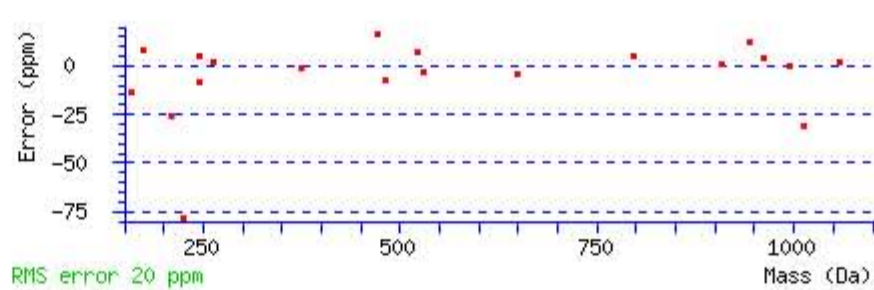
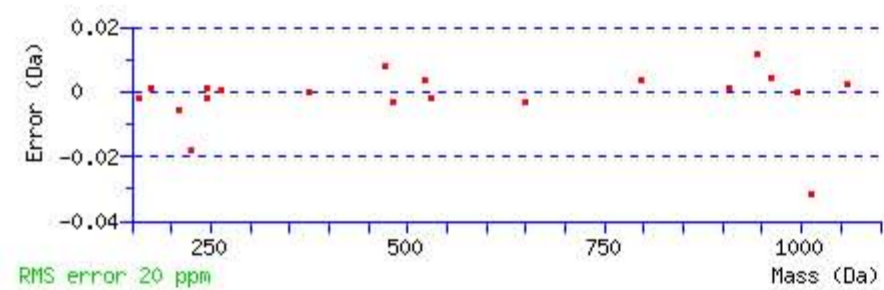
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 26 Expect: 0.063

Matches : 20/60 fragment ions using 48 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	129.065854	65.036565	112.039305	56.523291			Q							7
2	<b>226.118618</b>	113.562947	<b>209.092069</b>	105.049673			P	<b>1058.581548</b>	<b>529.794412</b>	1041.554999	521.281138	1040.570983	520.789129	6
3	665.343944	333.175610	<b>648.317395</b>	324.662336			Q	<b>961.528784</b>	<b>481.268030</b>	944.502235	472.754755	<b>943.518219</b>	<b>472.262747</b>	5
4	812.412358	406.709817	<b>795.385809</b>	398.196543			F	<b>522.303458</b>	261.655367	505.276909	253.142092	504.292893	252.650084	4
5	925.496422	463.251849	<b>908.469873</b>	454.738575			I	<b>375.235044</b>	188.121160	358.208495	179.607885	357.224479	179.115877	3
6	<b>1012.528450</b>	506.767863	995.501901	498.254589	<b>994.517885</b>	497.762581	S	<b>262.150980</b>	131.579128	<b>245.124431</b>	123.065853	<b>244.140415</b>	122.573845	2
7							R	<b>175.118952</b>	88.063114	<b>158.092403</b>	79.549839			1



NCBI BLAST search of **QPQFISR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
26.2	1185.632843	-0.002095	<a href="#">QPQFISR</a>
17.1	1185.646561	-0.015813	<a href="#">KPIDSLRDSR</a>
13.4	1185.632843	-0.002095	<a href="#">QPQFISR</a>
8.1	1185.635330	-0.004582	<a href="#">ENLDSVIQIR</a>
6.2	1185.617569	0.013179	<a href="#">NIGALPVMAR</a>
5.8	1185.636200	-0.005452	<a href="#">QIAAVMSR</a>
5.7	1185.646561	-0.015813	<a href="#">KASSTPSPKQR</a>
5.0	1185.646561	-0.015813	<a href="#">APSAKKPSTGSR</a>
4.0	1185.628799	0.001949	<a href="#">SGKMAPKPQSR</a>
2.7	1185.617584	0.013164	<a href="#">QVSSAEVR</a>

# MASCOT SCIENCE Mascot Search Results

## Peptide View

MS/MS Fragmentation of **GQYCYELDEK**

Found in **VTNC\_HUMAN**, Vitronectin OS=Homo sapiens GN=VTN PE=1 SV=1

Match to Query 31100: 1614.708108 from(808.361330,2+) rtinseconds(1914) index(45346)

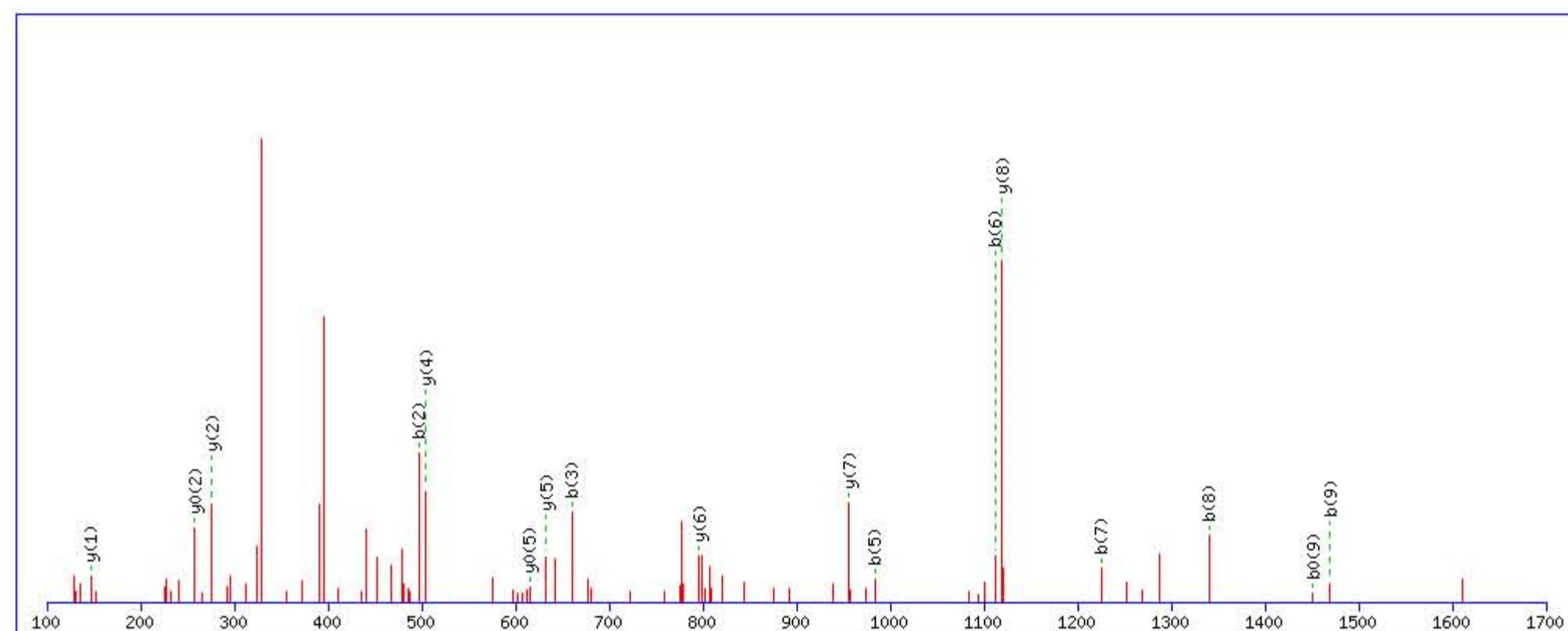
Title: Locus:1.1.1.3379.17 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1614.705795

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

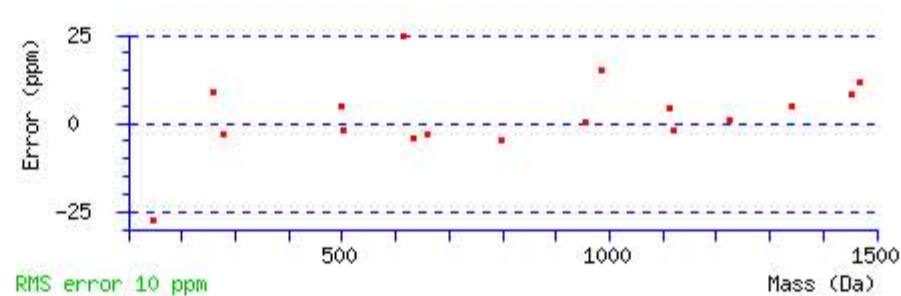
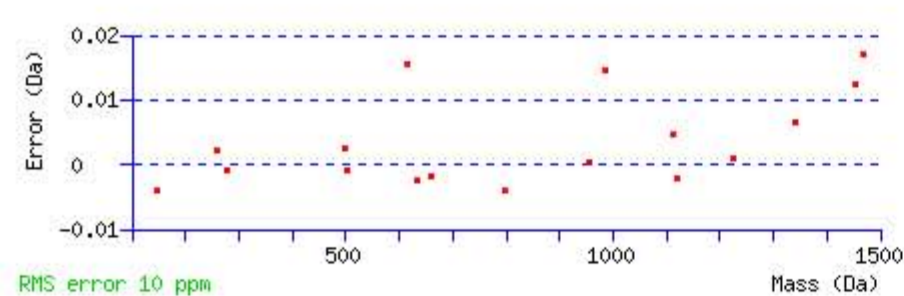
Variable modifications:

Q2 : Biotin:Thermo-21345 (Q)

Ions Score: 47 Expect: 8.4e-005

Matches : 17/94 fragment ions using 27 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							10
2	<b>497.254066</b>	249.130671	480.227517	240.617397			Q	1558.691630	779.849453	1541.665081	771.336179	1540.681065	770.844171	9
3	<b>660.317395</b>	330.662336	643.290846	322.149061			Y	<b>1119.466304</b>	560.236790	1102.439755	551.723516	1101.455739	551.231508	8
4	820.348044	410.677660	803.321495	402.164386			C	<b>956.402975</b>	478.705126	939.376426	470.191851	938.392410	469.699843	7
5	<b>983.411373</b>	492.209325	966.384824	483.696050			Y	<b>796.372326</b>	398.689801	779.345777	390.176527	778.361761	389.684519	6
6	<b>1112.453966</b>	556.730621	1095.427417	548.217347	1094.443401	547.725339	E	<b>633.308997</b>	317.158137	616.282448	308.644862	<b>615.298432</b>	308.152854	5
7	<b>1225.538030</b>	613.272653	1208.511481	604.759379	1207.527465	604.267371	L	<b>504.266404</b>	252.636840	487.239855	244.123566	486.255839	243.631558	4
8	<b>1340.564973</b>	670.786125	1323.538424	662.272850	1322.554408	661.780842	D	391.182340	196.094808	374.155791	187.581534	373.171775	187.089526	3
9	<b>1469.607566</b>	735.307421	1452.581017	726.794147	<b>1451.597001</b>	726.302139	E	<b>276.155397</b>	138.581337	259.128848	130.068062	<b>258.144832</b>	129.576054	2
10							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **GQYCYELDEK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
46.8	1614.705795	0.002313	<a href="#">GQYCYELDEK</a>
6.1	1614.717010	-0.008902	<a href="#">EYFRMELMHAEK</a>
1.6	1614.692566	0.015542	<a href="#">QFFDCGHWDYDLK</a>
0.3	1614.701767	0.006341	<a href="#">KAEQLMSDENCYFK</a>

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **DWHGVPGQVDAAMAGR**

Found in **VTNC\_HUMAN**, Vitronectin OS=Homo sapiens GN=VTN PE=1 SV=1

Match to Query 38902: 1976.933772 from(659.985200,3+) rtinseconds(2178) index(32912)

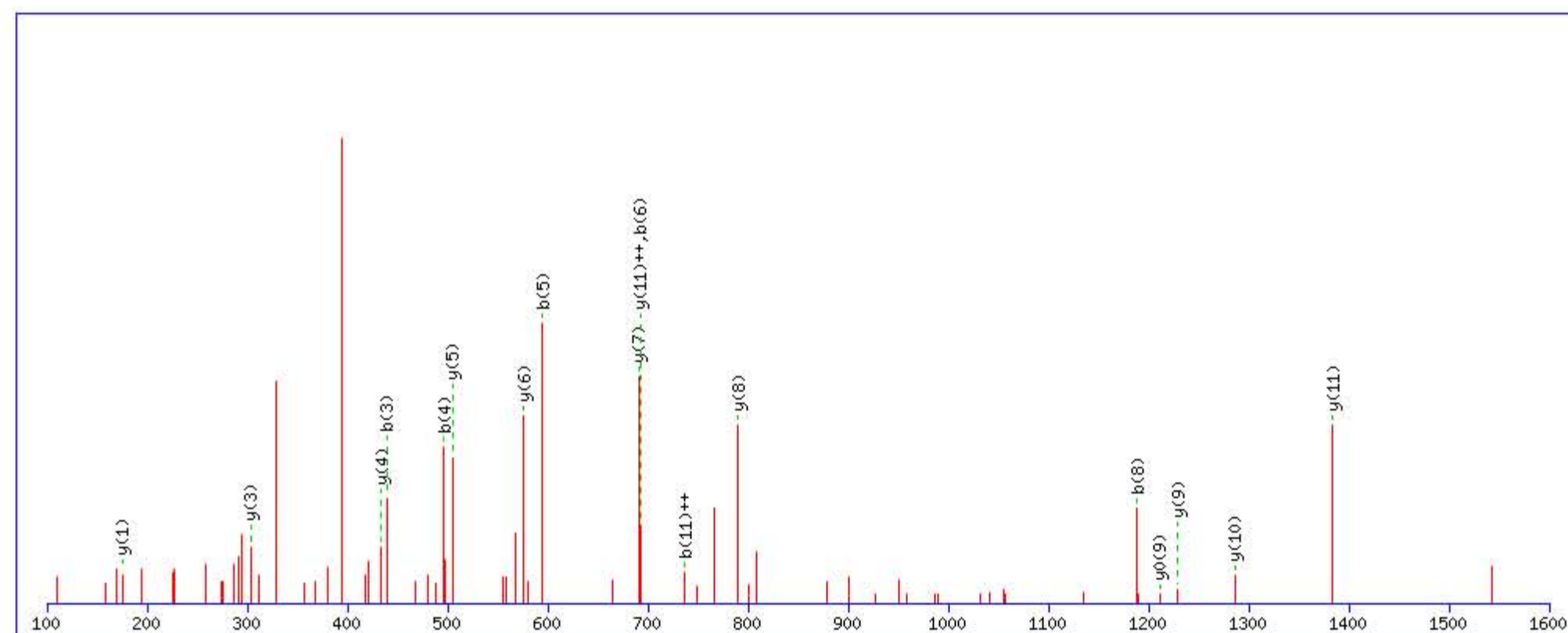
Title: Locus:1.1.1.3422.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1976.934937

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

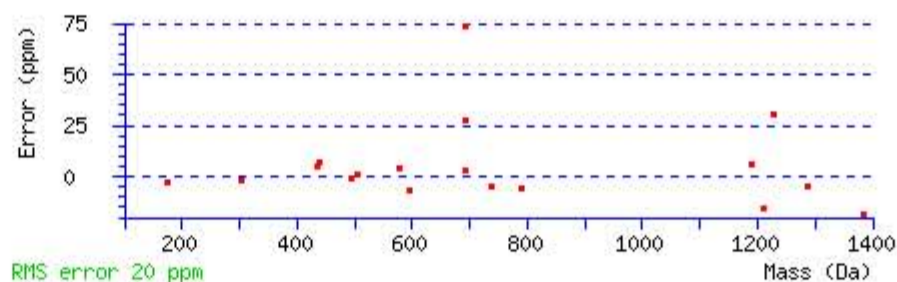
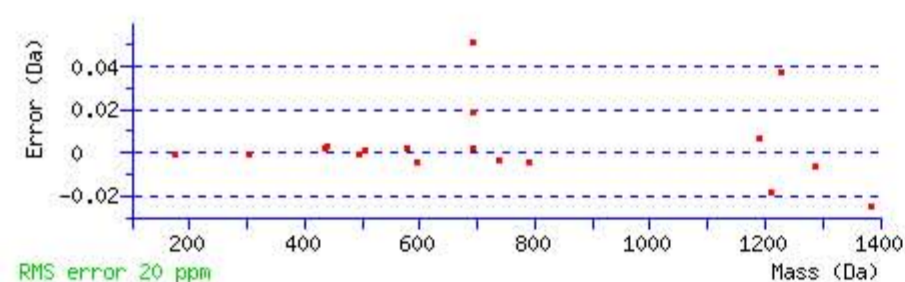
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 43 Expect: 0.00051

Matches : 18/154 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.034219	58.520748			98.023654	49.515465	D							16
2	302.113532	151.560404			284.102967	142.555122	W	1862.915257	931.961266	1845.888708	923.447992	1844.904692	922.955984	15
3	<b>439.172444</b>	220.089860			421.161879	211.084577	H	1676.835944	838.921610	1659.809395	830.408336	1658.825379	829.916327	14
4	<b>496.193908</b>	248.600592			478.183343	239.595309	G	1539.777032	770.392154	1522.750483	761.878880	1521.766467	761.386871	13
5	<b>595.262322</b>	298.134799			577.251757	289.129517	V	1482.755568	741.881422	1465.729019	733.368148	1464.745003	732.876140	12
6	<b>692.315086</b>	346.661181			674.304521	337.655899	P	<b>1383.687154</b>	<b>692.347215</b>	1366.660605	683.833941	1365.676589	683.341932	11
7	749.336550	375.171913			731.325985	366.166631	G	<b>1286.634390</b>	643.820833	1269.607841	635.307559	1268.623825	634.815550	10
8	<b>1188.561876</b>	594.784576	1171.535327	586.271302	1170.551311	585.779293	Q	<b>1229.612926</b>	615.310101	1212.586377	606.796827	<b>1211.602361</b>	606.304819	9
9	1287.630290	644.318783	1270.603741	635.805509	1269.619725	635.313501	V	<b>790.387600</b>	395.697438	773.361051	387.184164	772.377035	386.692156	8
10	1402.657233	701.832255	1385.630684	693.318980	1384.646668	692.826972	D	<b>691.319186</b>	346.163231	674.292637	337.649956	673.308621	337.157948	7
11	1473.694347	<b>737.350812</b>	1456.667798	728.837537	1455.683782	728.345529	A	<b>576.292243</b>	288.649759	559.265694	280.136485			6
12	1544.731461	772.869369	1527.704912	764.356094	1526.720896	763.864086	A	<b>505.255129</b>	253.131202	488.228580	244.617928			5
13	1675.771946	838.389611	1658.745397	829.876337	1657.761381	829.384329	M	<b>434.218015</b>	217.612645	417.191466	209.099371			4
14	1746.809060	873.908168	1729.782511	865.394894	1728.798495	864.902886	A	<b>303.177530</b>	152.092403	286.150981	143.579128			3
15	1803.830524	902.418900	1786.803975	893.905626	1785.819959	893.413617	G	232.140416	116.573846	215.113867	108.060571			2
16							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of [DWHGVPGQVDAAMAGR](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
42.9	1976.934937	-0.001165	<a href="#">DWHGVPGQVDAAMAGR</a>
7.8	1976.918793	0.014979	<a href="#">DDGLQYRPDVKDASDQR</a>

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

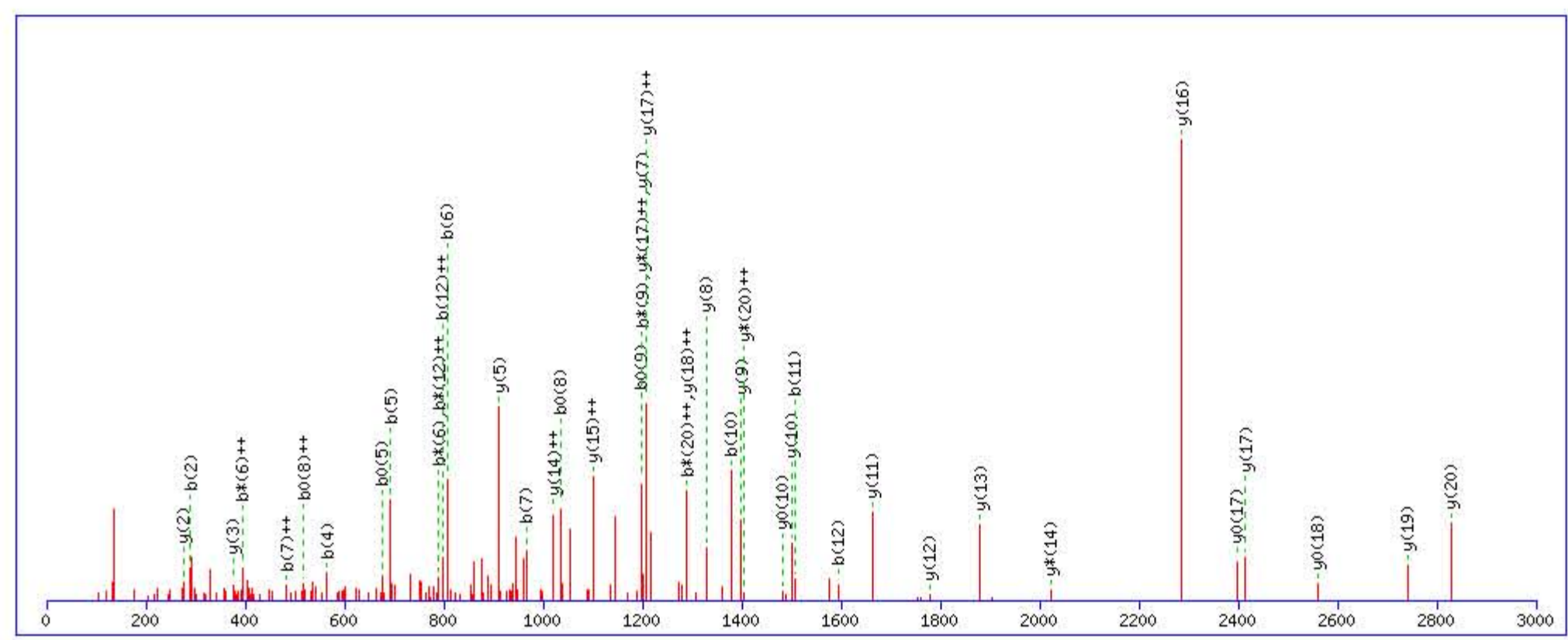
# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **CQCDELCSYYQSCCTDYTAECKPQVTR**  
 Found in **VTNC\_HUMAN**, Vitronectin OS=Homo sapiens GN=VTN PE=1 SV=1

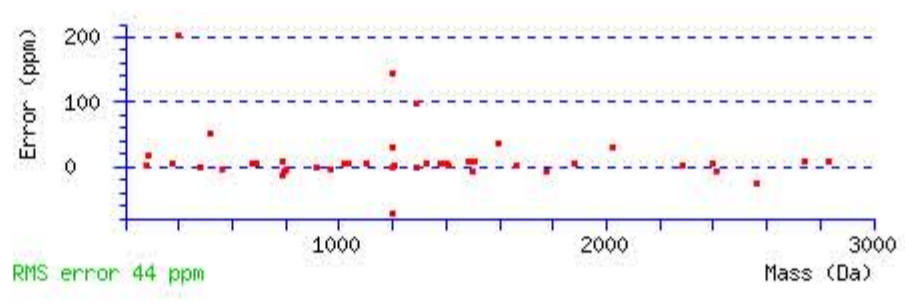
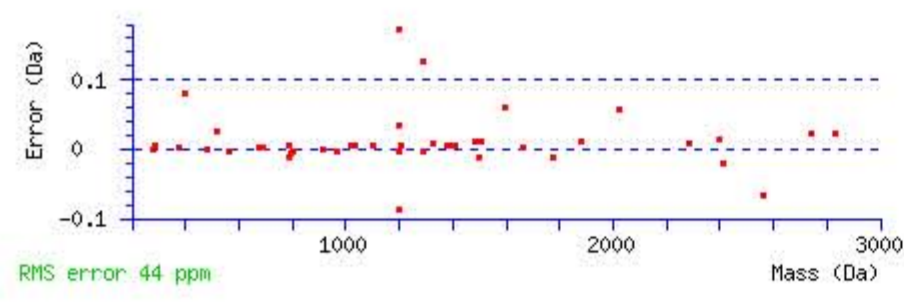
Match to Query 61264: 3792.513656 from(949.135690,4+) rtinseconds(1967) index(45788)  
 Title: Locus:1.1.1.3397.24 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 3792.511536  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q24 : Biotin:Thermo-21345 (Q)  
 Ions Score: 86 Expect: 2.5e-009  
 Matches : 43/302 fragment ions using 58 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	161.037925	81.022600					C							27
2	<b>289.096503</b>	145.051890	272.069954	136.538615			Q	3633.488150	1817.247713	3616.461601	1808.734438	3615.477585	1808.242431	26
3	449.127152	225.067214	432.100603	216.553940			C	3505.429572	1753.218424	3488.403023	1744.705149	3487.419007	1744.213141	25
4	<b>564.154095</b>	282.580686	547.127546	274.067411	546.143530	273.575403	D	3345.398923	1673.203099	3328.372374	1664.689825	3327.388358	1664.197817	24
5	<b>693.196688</b>	347.101982	676.170139	338.588708	<b>675.186123</b>	338.096700	E	3230.371980	1615.689628	3213.345431	1607.176353	3212.361415	1606.684345	23
6	<b>806.280752</b>	403.644014	<b>789.254203</b>	<b>395.130740</b>	788.270187	394.638732	L	3101.329387	1551.168331	3084.302838	1542.655057	3083.318822	1542.163049	22
7	<b>966.311401</b>	<b>483.659339</b>	949.284852	475.146064	948.300836	474.654056	C	2988.245323	1494.626299	2971.218774	1486.113025	2970.234758	1485.621017	21
8	1053.343429	527.175353	1036.316880	518.662078	<b>1035.332864</b>	<b>518.170070</b>	S	<b>2828.214674</b>	1414.610975	2811.188125	<b>1406.097700</b>	2810.204109	1405.605692	20
9	1216.406758	608.707017	<b>1199.380209</b>	600.193743	<b>1198.396193</b>	599.701735	Y	<b>2741.182646</b>	1371.094961	2724.156097	1362.581686	2723.172081	1362.089678	19
10	<b>1379.470087</b>	690.238682	1362.443538	681.725407	1361.459522	681.233399	Y	2578.119317	<b>1289.563296</b>	2561.092768	1281.050022	<b>2560.108752</b>	1280.558014	18
11	<b>1507.528665</b>	754.267971	1490.502116	745.754696	1489.518100	745.262688	Q	<b>2415.055988</b>	<b>1208.031632</b>	2398.029439	<b>1199.518357</b>	<b>2397.045423</b>	1199.026349	17
12	<b>1594.560693</b>	<b>797.783985</b>	1577.534144	<b>789.270710</b>	1576.550128	788.778702	S	<b>2286.997410</b>	1144.002343	2269.970861	1135.489068	2268.986845	1134.997060	16
13	1754.591342	877.799309	1737.564793	869.286035	1736.580777	868.794027	C	2199.965382	<b>1100.486329</b>	2182.938833	1091.973054	2181.954817	1091.481046	15
14	1914.621991	957.814634	1897.595442	949.301359	1896.611426	948.809351	C	2039.934733	<b>1020.471005</b>	<b>2022.908184</b>	1011.957730	2021.924168	1011.465722	14
15	2015.669670	1008.338473	1998.643121	999.825199	1997.659105	999.333191	T	<b>1879.904084</b>	940.455680	1862.877535	931.942406	1861.893519	931.450398	13
16	2130.696613	1065.851945	2113.670064	1057.338670	2112.686048	1056.846662	D	<b>1778.856405</b>	889.931841	1761.829856	881.418566	1760.845840	880.926558	12
17	2293.759942	1147.383609	2276.733393	1138.870335	2275.749377	1138.378327	Y	<b>1663.829462</b>	832.418369	1646.802913	823.905095	1645.818897	823.413086	11
18	2394.807621	1197.907449	2377.781072	1189.394174	2376.797056	1188.902166	T	<b>1500.766133</b>	750.886704	1483.739584	742.373430	<b>1482.755568</b>	741.881422	10
19	2465.844735	1233.426006	2448.818186	1224.912731	2447.834170	1224.420723	A	<b>1399.718454</b>	700.362865	1382.691905	691.849591	1381.707889	691.357583	9
20	2594.887328	1297.947302	2577.860779	<b>1289.434028</b>	2576.876763	1288.942020	E	<b>1328.681340</b>	664.844308	1311.654791	656.331033	1310.670775	655.839025	8
21	2754.917977	1377.962627	2737.891428	1369.449352	2736.907412	1368.957344	C	<b>1199.638747</b>	600.323011	1182.612198	591.809737	1181.628182	591.317729	7
22	2883.012940	1442.010108	2865.986391	1433.496834	2865.002375	1433.004826	K	1039.608098	520.307687	1022.581549	511.794412	1021.597533	511.302404	6
23	2980.065704	1490.536490	2963.039155	1482.023216	2962.055139	1481.531208	P	<b>911.513135</b>	456.260205	894.486586	447.746931	893.502570	447.254923	5
24	3419.291030	1710.149153	3402.264481	1701.635879	3401.280465	1701.143871	Q	814.460371	407.733823	797.433822	399.220549	796.449806	398.728541	4
25	3518.359444	1759.683360	3501.332895	1751.170086	3500.348879	1750.678078	V	<b>375.235045</b>	188.121160	358.208496	179.607886	357.224480	179.115878	3
26	3619.407123	1810.207200	3602.380574	1801.693925	3601.396558	1801.201917	T	<b>276.166631</b>	138.586953	259.140082	130.073679	258.156066	129.581671	2
27							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **CQCDELCSYYQSCCTDYTAECKPQVTR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
86.0	3792.511536	0.002120	<a href="#">CQCDELCSYYQSCCTDYTAECKPQVTR</a>
20.5	3792.511536	0.002120	<a href="#">CQCDELCSYYQSCCTDYTAECKPQVTR</a>

# Mascot Search Results

## Peptide View

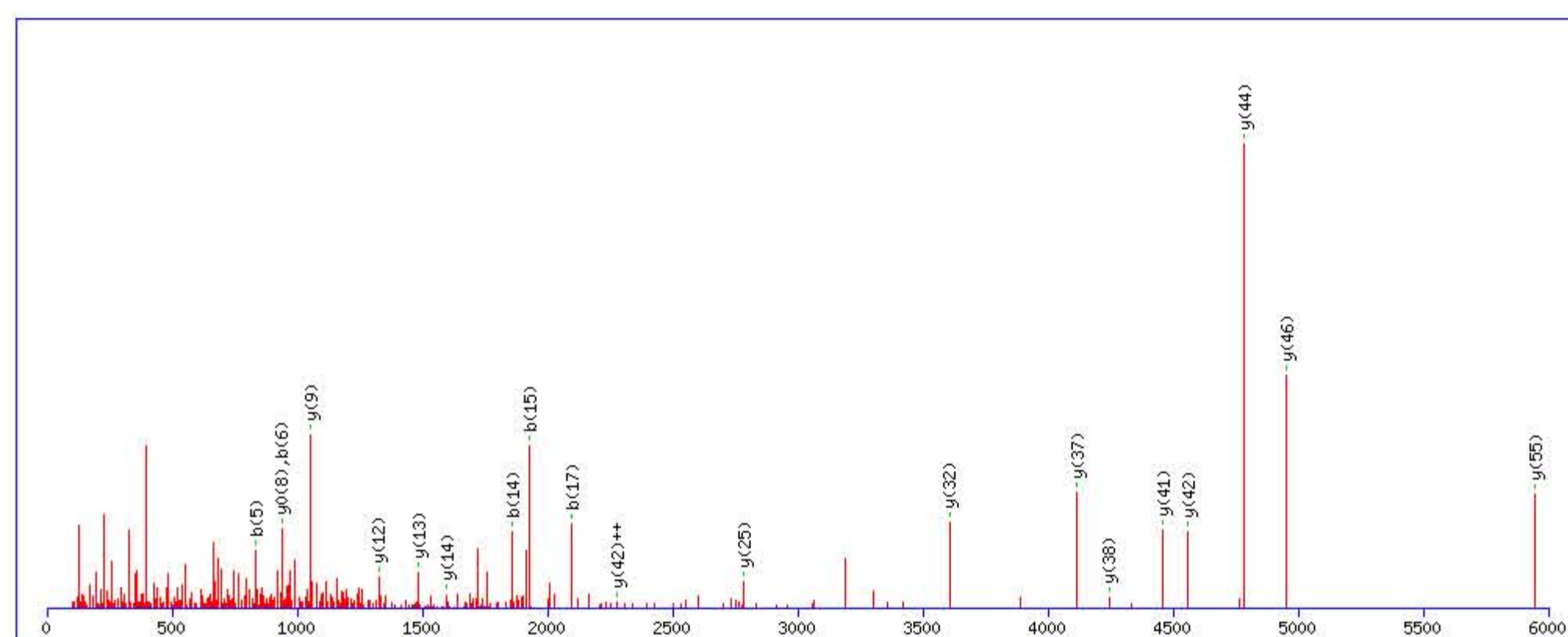
MS/MS Fragmentation of **GNPEQTPVLKPEEEAPAPEV GASKPEGIDSRPETLHPGRPQPPAEELCSGKPFDAFTDLK**  
 Found in **VTNC\_HUMAN**, Vitronectin OS=Homo sapiens GN=VTN PE=1 SV=1

Match to Query 69089: 6883.379552 from(861.429720,8+) rtinseconds(2104) index(32479)  
 Title: Locus:1.1.1.3396.16 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da  Full range

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 6883.374893  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications:  
 Q5 : Biotin:Thermo-21345 (Q)  
 Ions Score: 44 Expect: 0.00052  
 Matches : 20/708 fragment ions using 44 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>+++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>+++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							61
2	172.071667	86.539471	155.045118	78.026197			N	6827.360757	3414.184017	6810.334208	3405.670742	6809.350192	3405.178734	60
3	269.124431	135.065854	252.097882	126.552579			P	6713.317830	3357.162553	6696.291281	3348.649279	6695.307265	3348.157271	59
4	398.167024	199.587150	381.140475	191.073876	380.156459	190.581868	E	6616.265066	3308.636171	6599.238517	3300.122897	6598.254501	3299.630889	58
5	<b>837.392350</b>	419.199813	820.365801	410.686539	819.381785	410.194531	Q	6487.222473	3244.114875	6470.195924	3235.601600	6469.211908	3235.109592	57
6	<b>938.440029</b>	469.723653	921.413480	461.210378	920.429464	460.718370	T	6047.997147	3024.502212	6030.970598	3015.988937	6029.986582	3015.496929	56
7	1035.492793	518.250035	1018.466244	509.736760	1017.482228	509.244752	P	<b>5946.949468</b>	2973.978372	5929.922919	2965.465098	5928.938903	2964.973090	55
8	1134.561207	567.784242	1117.534658	559.270967	1116.550642	558.778959	V	5849.896704	2925.451990	5832.870155	2916.938716	5831.886139	2916.446708	54
9	1247.645271	624.326274	1230.618722	615.812999	1229.634706	615.320991	L	5750.828290	2875.917783	5733.801741	2867.404509	5732.817725	2866.912501	53
10	1375.740234	688.373755	1358.713685	679.860481	1357.729669	679.368473	K	5637.744226	2819.375751	5620.717677	2810.862477	5619.733661	2810.370469	52
11	1472.792998	736.900137	1455.766449	728.386863	1454.782433	727.894855	P	5509.649263	2755.328270	5492.622714	2746.814995	5491.638698	2746.322987	51
12	1601.835591	801.421434	1584.809042	792.908159	1583.825026	792.416151	E	5412.596499	2706.801888	5395.569950	2698.288613	5394.585934	2697.796605	50
13	1730.878184	865.942730	1713.851635	857.429456	1712.867619	856.937448	E	5283.553906	2642.280591	5266.527357	2633.767317	5265.543341	2633.275309	49
14	<b>1859.920777</b>	930.464027	1842.894228	921.950752	1841.910212	921.458744	E	5154.511313	2577.759295	5137.484764	2569.246020	5136.500748	2568.754012	48
15	<b>1930.957891</b>	965.982584	1913.931342	957.469309	1912.947326	956.977301	A	5025.468720	2513.237998	5008.442171	2504.724724	5007.458155	2504.232716	47
16	2028.010655	1014.508966	2010.984106	1005.995691	2010.000090	1005.503683	P	<b>4954.431606</b>	2477.719441	4937.405057	2469.206167	4936.421041	2468.714159	46
17	<b>2099.047769</b>	1050.027523	2082.021220	1041.514248	2081.037204	1041.022240	A	4857.378842	2429.193059	4840.352293	2420.679785	4839.368277	2420.187777	45
18	2196.100533	1098.553905	2179.073984	1090.040630	2178.089968	1089.548622	P	<b>4786.341728</b>	2393.674502	4769.315179	2385.161228	4768.331163	2384.669220	44
19	2325.143126	1163.075201	2308.116577	1154.561927	2307.132561	1154.069919	E	4689.288964	2345.148120	4672.262415	2336.634846	4671.278399	2336.142838	43
20	2424.211540	1212.609408	2407.184991	1204.096134	2406.200975	1203.604126	V	<b>4560.246371</b>	<b>2280.626824</b>	4543.219822	2272.113549	4542.235806	2271.621541	42
21	2481.233004	1241.120140	2464.206455	1232.606865	2463.222439	1232.114858	G	<b>4461.177957</b>	2231.092617	4444.151408	2222.579342	4443.167392	2222.087334	41
22	2552.270118	1276.638697	2535.243569	1268.125423	2534.259553	1267.633415	A	4404.156493	2202.581885	4387.129944	2194.068610	4386.145928	2193.576602	40
23	2639.302146	1320.154711	2622.275597	1311.641437	2621.291581	1311.149429	S	4333.119379	2167.063328	4316.092830	2158.550053	4315.108814	2158.058045	39
24	2767.397109	1384.202193	2750.370560	1375.688918	2749.386544	1375.196910	K	<b>4246.087351</b>	2123.547314	4229.060802	2115.034039	4228.076786	2114.542031	38
25	2864.449873	1432.728575	2847.423324	1424.215300	2846.439308	1423.723292	P	<b>4117.992388</b>	2059.499832	4100.965839	2050.986558	4099.981823	2050.494550	37
26	2993.492466	1497.249871	2976.465917	1488.736597	2975.481901	1488.244589	E	4020.939624	2010.973450	4003.913075	2002.460176	4002.929059	2001.968168	36
27	3050.513930	1525.760603	3033.487381	1517.247329	3032.503365	1516.755321	G	3891.897031	1946.452154	3874.870482	1937.938879	3873.886466	1937.446871	35
28	3163.597994	1582.302635	3146.571445	1573.789361	3145.587429	1573.297353	I	3834.875567	1917.941422	3817.849018	1909.428147	3816.865002	1908.936139	34
29	3278.624937	1639.816107	3261.598388	1631.302832	3260.614372	1630.810824	D	3721.791503	1861.399390	3704.764954	1852.886115	3703.780938	1852.394107	33
30	3365.656965	1683.332121	3348.630416	1674.818846	3347.646400	1674.326838	S	<b>3606.764560</b>	1803.885918	3589.738011	1795.372644	3588.753995	1794.880636	32
31	3521.758076	1761.382676	3504.731527	1752.869402	3503.747511	1752.377394	R	3519.732532	1760.369904	3502.705983	1751.856630	3501.721967	1751.364622	31
32	3618.810840	1809.909058	3601.784291	1801.395784	3600.800275	1800.903776	P	3363.631421	1682.319349	3346.604872	1673.806074	3345.620856	1673.314066	30
33	3747.853433	1874.430355	3730.826884	1865.917080	3729.842868	1865.425072	E	3266.578657	1633.792967	3249.552108	1625.279692	3248.568092	1624.787684	29
34	3848.901112	1924.954194	3831.874563	1916.440920	3830.890547	1915.948912	T	3137.536064	1569.271670	3120.509515	1560.758396	3119.525499	1560.266388	28
35	3961.985176	1981.496226	3944.958627	1972.982952	3943.974611	1972.490944	L	3036.488385	1518.747831	3019.461836	1510.234556	3018.477820	1509.742548	27
36	4099.044088	2050.025682	4082.017539	2041.512408	4081.033523	2041.020400	H	2923.404321	1462.205799	2906.377772	1453.692524	2905.393756	1453.200516	26
37	4196.096852	2098.552064	4179.070303	2090.038790	4178.086287	2089.546782	P	<b>2786.345409</b>	1393.676343	2769.318860	1385.163068	2768.334844	1384.671060	25
38	4253.118316	2127.062796	4236.091767	2118.549522	4235.107751	2118.057514	G	2689.292645	1345.149961	2672.266096	1336.636686	2671.282080	1336.144678	24
39	4409.219427	2205.113352	4392.192878	2196.600077	4391.208862	2196.108069	R	2632.271181	1316.639229	2615.244632	1308.125954	2614.260616	1307.633946	23
40	4506.272191	2253.639734	4489.245642	2245.126459	4488.261626	2244.634451	P	2476.170070	1238.588673	2459.143521	1230.075399	2458.159505	1229.583391	22
41	4634.330769	2317.669023	4617.304220	2309.155748	4616.320204	2308.663740	Q	2379.117306	1190.062291	2362.090757	1181.549017	2361.106741	1181.057009	21
42	4731.383533	2366.195405	4714.356984	2357.682130	4713.372968	2357.190122	P	2251.058728	1126.033002	2234.032179	1117.519728	2233.048163	1117.027720	20
43	4828.436297	2414.721787	4811.409748	2406.208512	4810.425732	2405.716504	P	2154.005964	1077.506620	2136.979415	1068.993346	2135.995399	1068.501338	19
44	4899.473411	2450.240344	4882.446862	2441.727069	4881.462846	2441.235061	A	2056.953200	1028.980238	2039.926651	1020.466964	2038.942635	1019.974956	18
45	5028.516004	2514.761640	5011.489455	2506.248366	5010.505439	2505.756358	E	1985.916086	993.461681	1968.889537	984.948407	1967.905521	984.456399	17
46	5157.558597	2579.282937	5140.532048	2570.769662	5139.548032	2570.277654	E	1856.873493	928.940385	1839.846944	920.427110	1838.862928	919.935102	16
47	5286.601190	2643.804233	5269.574641	2635.290959	5268.590625	2634.798951	E	1727.830900	864.419088	1710.804351	855.905814	1709.820335	855.413806	15
48	5399.685254	2700.346265	5382.658705	2691.832991	5381.674689	2691.340983	L	<b>1598.788307</b>	799.897792	1581.761758	791.384517	1580.777742	790.892509	14
49	5559.715903	2780.361590	5542.689354	2771.848315	5541.705338	2771.356307	C	<b>1485.704243</b>	743.355760	1468.677694	734.842485	1467.693678	734.350477	13
50	5646.747931	2823.877604	5629.721382	2815.364329	5628.737366	2814.872321	S	<b>1325.673594</b>	663.340435	1308.647045	654.827161	1307.663029	654.335153	12
51	5703.769395	2852.388336	5686.742846	2843.875061	5685.758830	2843.383053	G	1238.641566	619.824421	1221.615017	611.311147	1220.631001	610.819139	11
52	5831.864358	2916.435817	5814.837809	2907.922543	5813.853793	2907.430535	K	1181.620102	591.313689	1164.593553	582.800415	1163.609537	582.308407	10
53	5928.917122	2964.962199	5911.890573	2956.448925	5910.906557	2955.956917	P	<b>1053.525139</b>	527.266208	1036.498590	518.752933	1035.514574	518.260925	9
54	6075.985536	3038.496406	6058.958987	3029.983132	6057.974971</									

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **GGQIMTLK**

Found in **VWF\_HUMAN**, von Willebrand factor OS=Homo sapiens GN=VWF PE=1 SV=4

Match to Query 16446: 1157.625008 from(579.819780,2+) rtinseconds(1935) index(31358)

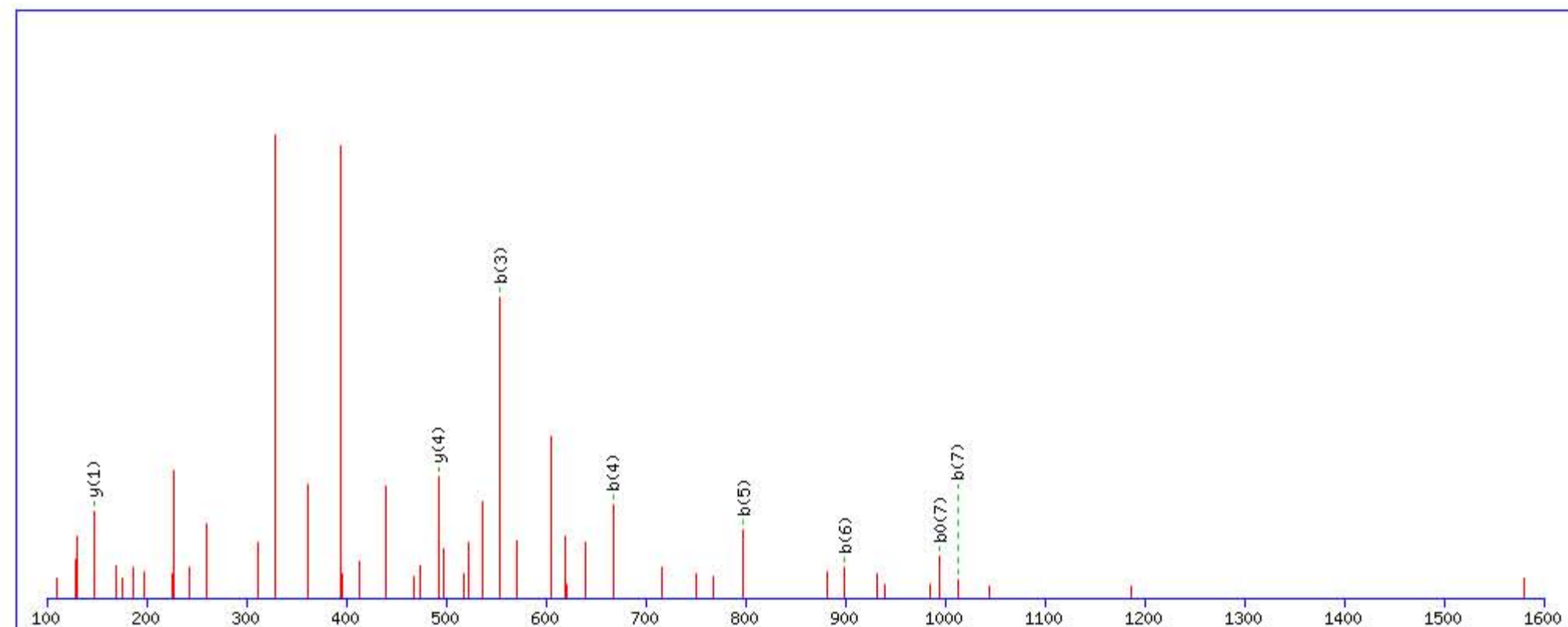
Title: Locus:1.1.1.3337.19 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1157.630066

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

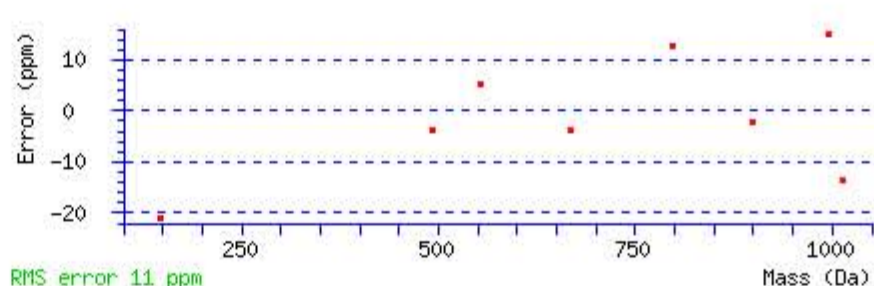
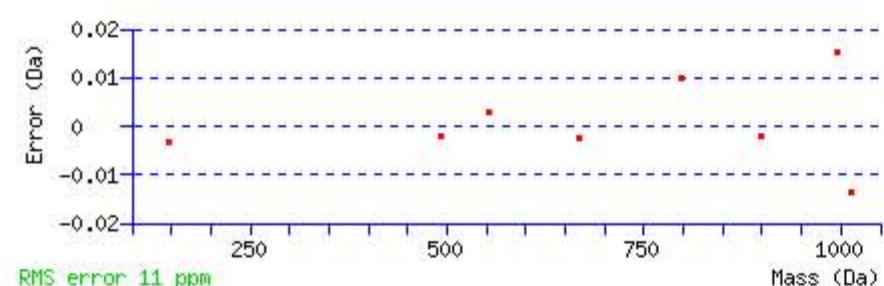
Variable modifications:

Q3 : Biotin:Thermo-21345 (Q)

Ions Score: 37 Expect: 0.0055

Matches : 8/66 fragment ions using 10 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.028740	29.518008					G							8
2	115.050204	58.028740					G	1101.615886	551.311581	1084.589337	542.798307	1083.605321	542.306299	7
3	<b>554.275530</b>	277.641403	537.248981	269.128129			Q	1044.594422	522.800849	1027.567873	514.287575	1026.583857	513.795567	6
4	<b>667.359594</b>	334.183435	650.333045	325.670161			I	605.369096	303.188186	588.342547	294.674912	587.358531	294.182904	5
5	<b>798.400079</b>	399.703678	781.373530	391.190403			M	<b>492.285032</b>	246.646154	475.258483	238.132880	474.274467	237.640872	4
6	<b>899.447758</b>	450.227517	882.421209	441.714243	881.437193	441.222235	T	361.244547	181.125912	344.217998	172.612637	343.233982	172.120629	3
7	<b>1012.531822</b>	506.769549	995.505273	498.256275	<b>994.521257</b>	497.764267	L	260.196868	130.602072	243.170319	122.088798			2
8							K	<b>147.112804</b>	74.060040	130.086255	65.546765			1



NCBI BLAST search of **GGQIMTLK**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
37.2	1157.630066	-0.005058	<a href="#">GGQIMTLK</a>
17.3	1157.630051	-0.005043	<a href="#">QLSQMLK</a>
11.5	1157.640411	-0.015403	<a href="#">SPGKNSSIQLK</a>
9.5	1157.636566	-0.011558	<a href="#">ILVEEMAPLK</a>
9.4	1157.619293	0.005715	<a href="#">TNFEGPPRLK</a>
8.5	1157.640411	-0.015403	<a href="#">AQQLSSGNLK</a>
8.2	1157.629196	-0.004188	<a href="#">EPQITITQLK</a>
7.5	1157.622665	0.002343	<a href="#">QRTDSLK</a>
7.4	1157.611420	0.013588	<a href="#">MKLDVPEQAK</a>
6.6	1157.636566	-0.011558	<a href="#">LLAIMPDELK</a>



**Peptide View**

MS/MS Fragmentation of **ILTSDVFQDCNK**

Found in **VWF\_HUMAN**, von Willebrand factor OS=Homo sapiens GN=VWF PE=1 SV=4

Match to Query 16776: 1749.848862 from(584.290230,3+) rtinseconds(2167) index(47022)

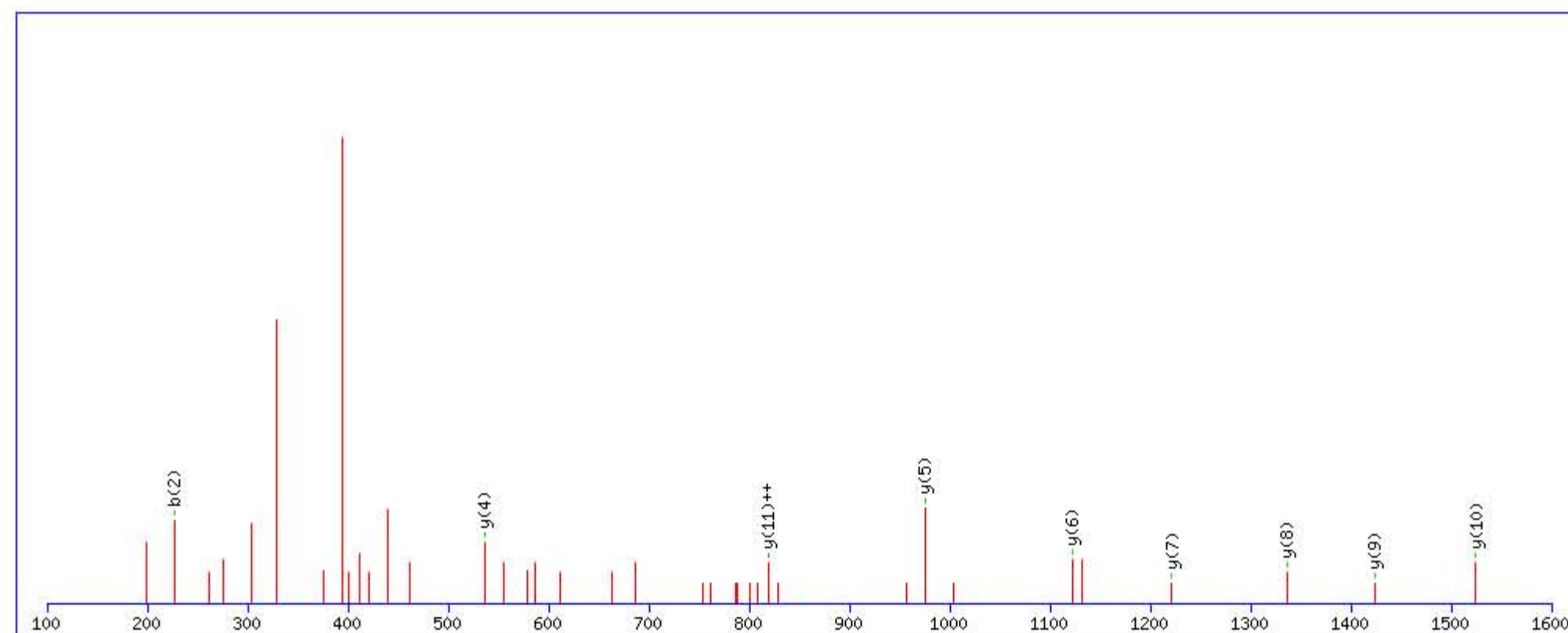
Title: Locus:1.1.1.3467.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 4.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1749.842987

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

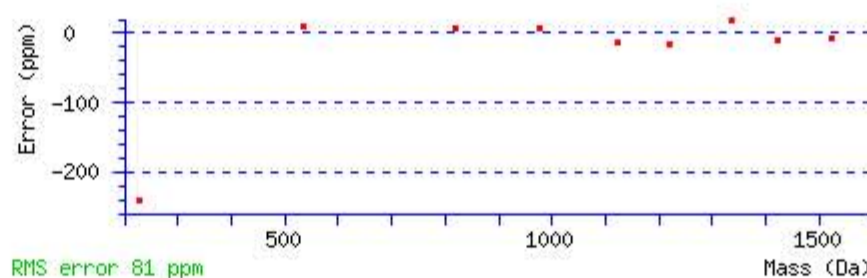
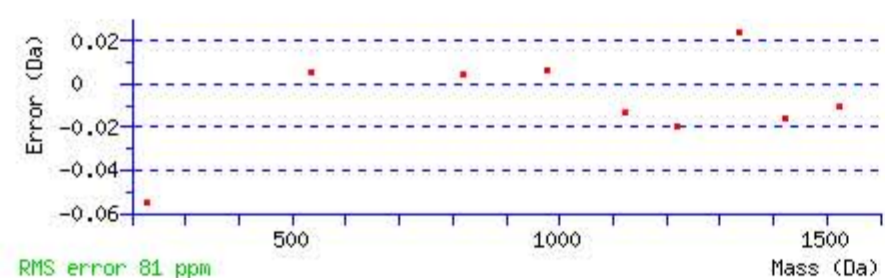
Variable modifications:

Q8 : Biotin:Thermo-21345 (Q)

Ions Score: 45 Expect: 0.0019

Matches : 9/108 fragment ions using 14 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>+</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>+</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							12
2	<b>227.175404</b>	114.091340					L	1637.766191	<b>819.386734</b>	1620.739642	810.873459	1619.755626	810.381451	11
3	328.223083	164.615179			310.212518	155.609897	T	<b>1524.682127</b>	762.844702	1507.655578	754.331427	1506.671562	753.839419	10
4	415.255111	208.131193			397.244546	199.125911	S	<b>1423.634448</b>	712.320862	1406.607899	703.807588	1405.623883	703.315580	9
5	530.282054	265.644665			512.271489	256.639383	D	<b>1336.602420</b>	668.804848	1319.575871	660.291574	1318.591855	659.799565	8
6	629.350468	315.178872			611.339903	306.173589	V	<b>1221.575477</b>	611.291377	1204.548928	602.778102	1203.564912	602.286094	7
7	776.418882	388.713079			758.408317	379.707796	F	<b>1122.507063</b>	561.757170	1105.480514	553.243895	1104.496498	552.751887	6
8	1215.644208	608.325742	1198.617659	599.812468	1197.633643	599.320459	Q	<b>975.438649</b>	488.222963	958.412100	479.709688	957.428084	479.217680	5
9	1330.671151	665.839214	1313.644602	657.325939	1312.660586	656.833931	D	<b>536.213323</b>	268.610300	519.186774	260.097025	518.202758	259.605017	4
10	1490.701800	745.854538	1473.675251	737.341264	1472.691235	736.849256	C	421.186380	211.096828	404.159831	202.583553			3
11	1604.744727	802.876002	1587.718178	794.362727	1586.734162	793.870719	N	261.155731	131.081503	244.129182	122.568229			2
12							K	147.112804	74.060040	130.086255	65.546765			1



NCBI BLAST search of [ILTSDVFQDCNK](#)

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

**All matches to this query**

Score	Mr(calc):	Delta	Sequence
44.6	1749.842987	0.005875	<a href="#">ILTSDVFQDCNK</a>

# MASCOT Search Results

## Peptide View

MS/MS Fragmentation of **VSSQCADTR**

Found in **VWF\_HUMAN**, von Willebrand factor OS=Homo sapiens GN=VWF PE=1 SV=4

Match to Query 20958: 1333.610088 from(667.812320,2+) rtinseconds(1300) index(27758)

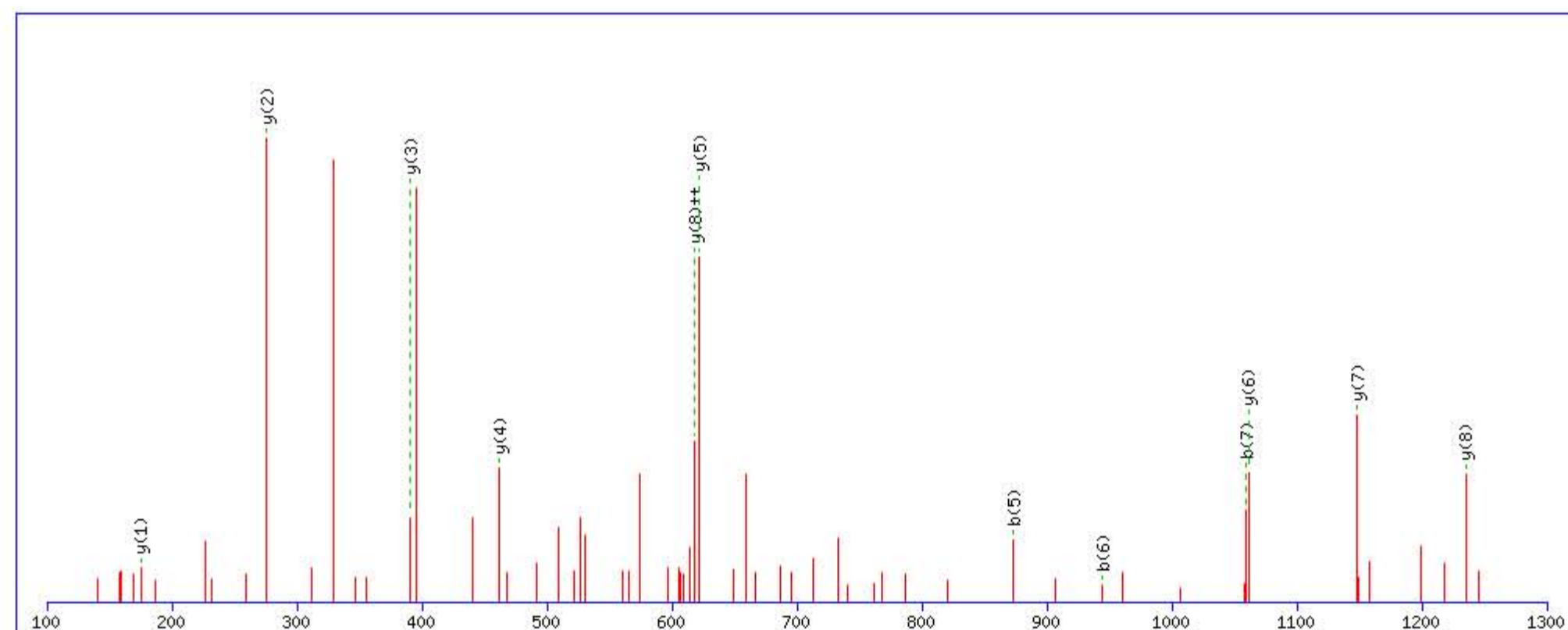
Title: Locus:1.1.1.3115.9 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1333.611862

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

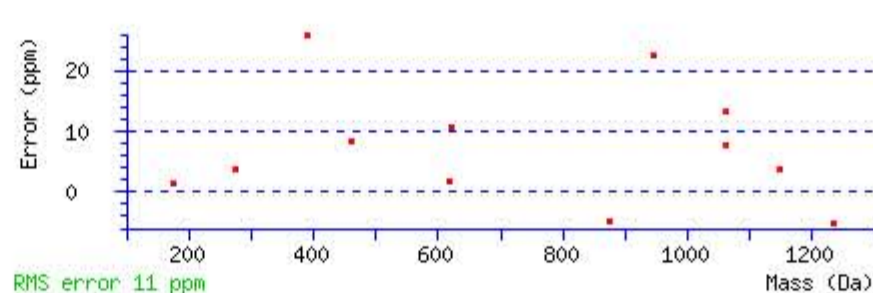
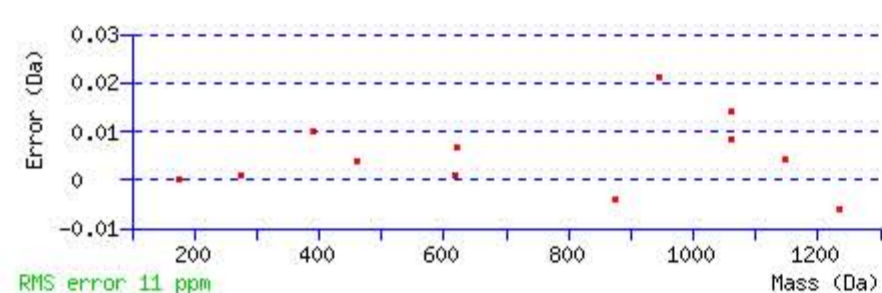
Variable modifications:

Q4 : Biotin:Thermo-21345 (Q)

Ions Score: 51 Expect: 1.6e-005

Matches : 12/86 fragment ions using 23 most intense peaks ([help](#))

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>***</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>***</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	100.075690	50.541483					V							9
2	187.107718	94.057497			169.097153	85.052214	S	1235.550719	618.278998	1218.524170	609.765723	1217.540154	609.273715	8
3	274.139746	137.573511			256.129181	128.568229	S	1148.518691	574.762984	1131.492142	566.249709	1130.508126	565.757701	7
4	713.365072	357.186174	696.338523	348.672900	695.354507	348.180892	Q	1061.486663	531.246970	1044.460114	522.733695	1043.476098	522.241687	6
5	873.395721	437.201499	856.369172	428.688224	855.385156	428.196216	C	622.261337	311.634307	605.234788	303.121032	604.250772	302.629024	5
6	944.432835	472.720056	927.406286	464.206781	926.422270	463.714773	A	462.230688	231.618982	445.204139	223.105707	444.220123	222.613700	4
7	1059.459778	530.233527	1042.433229	521.720253	1041.449213	521.228245	D	391.193574	196.100425	374.167025	187.587151	373.183009	187.095143	3
8	1160.507457	580.757367	1143.480908	572.244092	1142.496892	571.752084	T	276.166631	138.586953	259.140082	130.073679	258.156066	129.581671	2
9							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **VSSQCADTR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

All matches to this query

Score	Mr(calc):	Delta	Sequence
51.4	1333.611862	-0.001774	<a href="#">VSSQCADTR</a>
0.3	1333.590729	0.019359	<a href="#">CFSRAGSVYCK</a>

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

# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **QHSDPCALNPR**

Found in **VWF\_HUMAN**, von Willebrand factor OS=Homo sapiens GN=VWF PE=1 SV=4

Match to Query 30690: 1604.748282 from(535.923370,3+) rtinseconds(1456) index(28522)

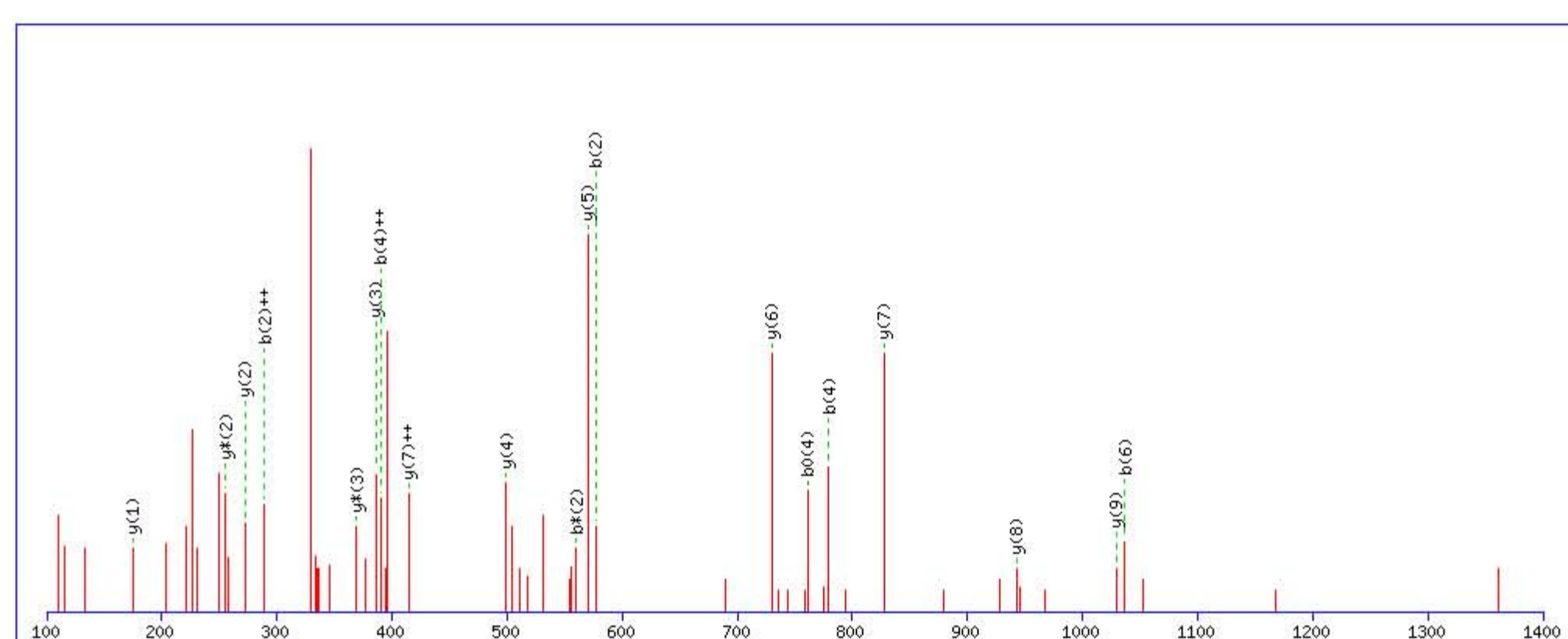
Title: Locus:1.1.1.3170.10 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"

Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point

Or, Plot from  to  Da

Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1604.755157

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)

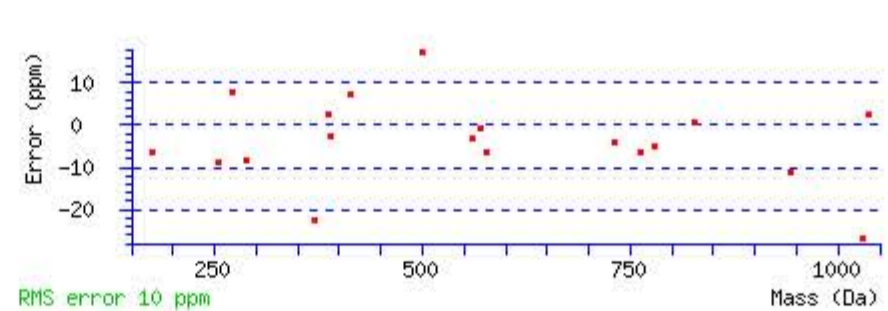
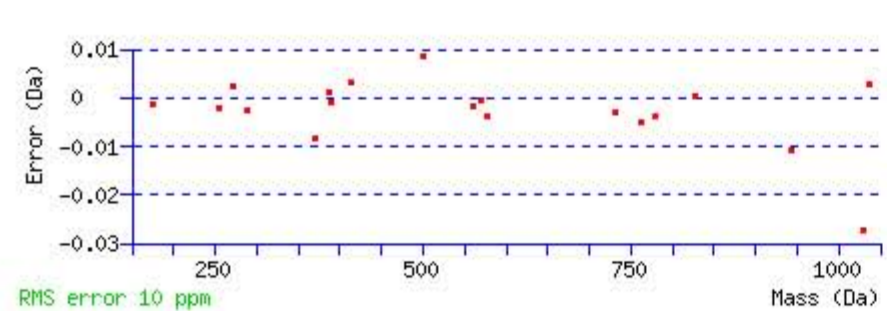
Variable modifications:

Q1 : Biotin:Thermo-21345 (Q)

Ions Score: 46 Expect: 0.00014

Matches : 19/102 fragment ions using 41 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	440.232602	220.619939	423.206053	212.106664			Q							11
2	<b>577.291514</b>	<b>289.149395</b>	<b>560.264965</b>	280.636121			H	1166.537117	583.772196	1149.510568	575.258922	1148.526552	574.766914	10
3	664.323542	332.665409	647.296993	324.152134	646.312977	323.660126	S	<b>1029.478205</b>	515.242740	1012.451656	506.729466	1011.467640	506.237458	9
4	<b>779.350485</b>	<b>390.178880</b>	762.323936	381.665606	<b>761.339920</b>	381.173598	D	<b>942.446177</b>	471.726726	925.419628	463.213452	924.435612	462.721444	8
5	876.403249	438.705263	859.376700	430.191988	858.392684	429.699980	P	<b>827.419234</b>	<b>414.213255</b>	810.392685	405.699980			7
6	<b>1036.433898</b>	518.720587	1019.407349	510.207313	1018.423333	509.715305	C	<b>730.366470</b>	365.686873	713.339921	357.173598			6
7	1107.471012	554.239144	1090.444463	545.725870	1089.460447	545.233861	A	<b>570.335821</b>	285.671548	553.309272	277.158274			5
8	1220.555076	610.781176	1203.528527	602.267901	1202.544511	601.775893	L	<b>499.298707</b>	250.152991	482.272158	241.639717			4
9	1334.598003	667.802639	1317.571454	659.289365	1316.587438	658.797357	N	<b>386.214643</b>	193.610959	<b>369.188094</b>	185.097685			3
10	1431.650767	716.329021	1414.624218	707.815747	1413.640202	707.323739	P	<b>272.171716</b>	136.589496	<b>255.145167</b>	128.076221			2
11							R	<b>175.118952</b>	88.063114	158.092403	79.549839			1



NCBI BLAST search of **QHSDPCALNPR**

(Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)

Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
46.2	1604.755157	-0.006875	<a href="#">QHSDPCALNPR</a>
4.9	1604.747726	0.000556	<a href="#">IHNEERSYKCNR</a>
0.7	1604.754288	-0.006006	<a href="#">GPSPASSSSSSPPAHPR</a>
0.4	1604.732529	0.015753	<a href="#">GDVGDRGDKQQGMAR</a>

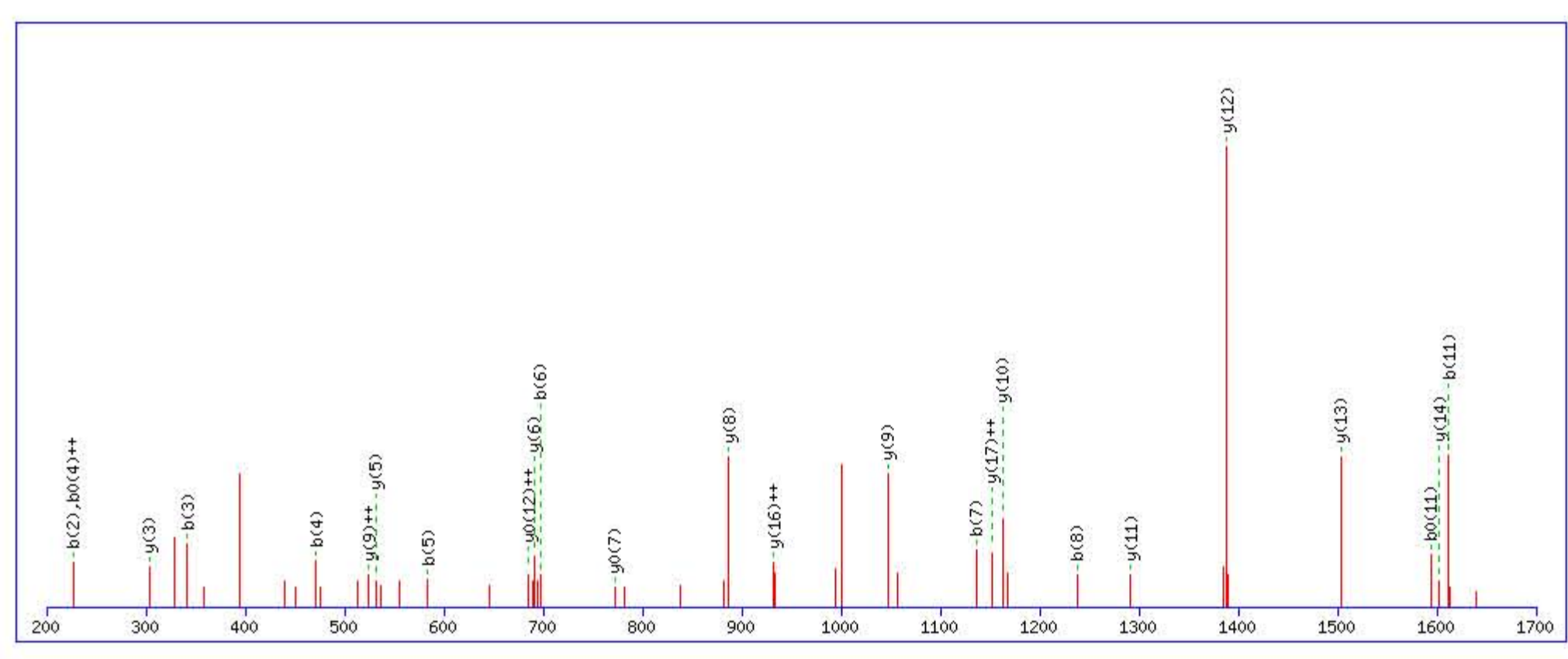
# MASCOT SEARCH RESULTS

## Peptide View

MS/MS Fragmentation of **ILDELLQTCVDPEDCPVCEVAGR**  
 Found in **VWF\_HUMAN**, von Willebrand factor OS=Homo sapiens GN=VWF PE=1 SV=4

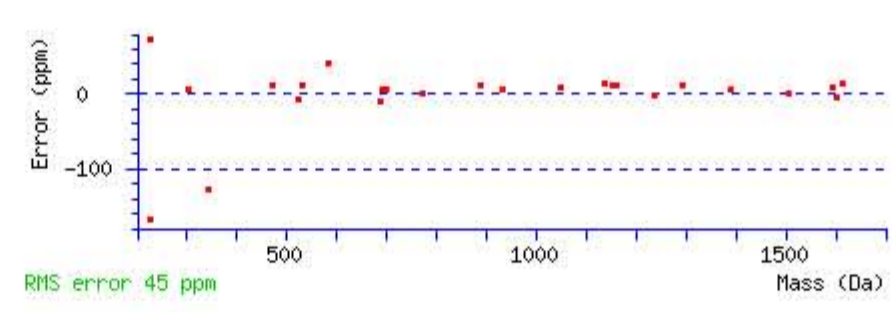
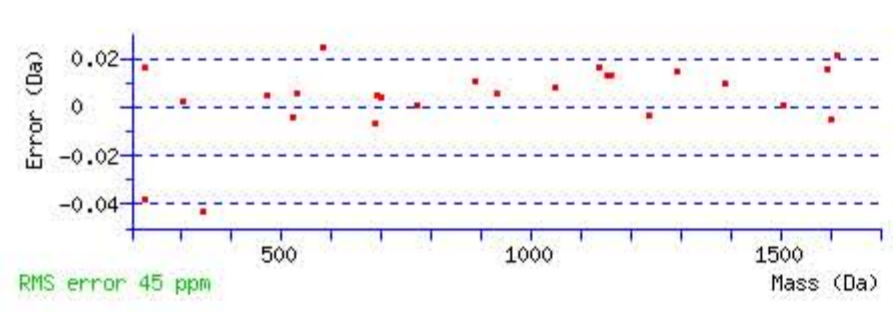
Match to Query 53976: 2998.395192 from(1000.472340,3+) rtinseconds(2623) index(35388)  
 Title: Locus:1.1.1.3576.25 File:"2013-07-02 CLN FXIII 180 min 3rd F 3.wiff"  
 Data file C:\Program Files (x86)\Matrix Science\Mascot Daemon\mgf\9 FXIII 180 min 3rd\mascot\_daemon\_merge.mgf

Click mouse within plot area to zoom in by factor of two about that point  
 Or, Plot from  to  Da   
 Label all possible matches  Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2998.390854  
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)  
 Variable modifications: Q7 : Biotin:Thermo-21345 (Q)  
 Ions Score: 80 Expect: 4.3e-008  
 Matches : 25/240 fragment ions using 37 most intense peaks [\(help\)](#)

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	114.091340	57.549308					I							23
2	<b>227.175404</b>	114.091340					L	2886.314052	1443.660664	2869.287503	1435.147389	2868.303487	1434.655381	22
3	<b>342.202347</b>	171.604811			324.191782	162.599529	D	2773.229988	1387.118632	2756.203439	1378.605357	2755.219423	1378.113349	21
4	<b>471.244940</b>	236.126108			453.234375	<b>227.120826</b>	E	2658.203045	1329.605160	2641.176496	1321.091886	2640.192480	1320.599878	20
5	<b>584.329004</b>	292.668140			566.318439	283.662858	L	2529.160452	1265.083864	2512.133903	1256.570589	2511.149887	1256.078581	19
6	<b>697.413068</b>	349.210172			679.402503	340.204890	L	2416.076388	1208.541832	2399.049839	1200.028557	2398.065823	1199.536549	18
7	<b>1136.638394</b>	568.822835	1119.611845	560.309561	1118.627829	559.817553	Q	2302.992324	<b>1151.999800</b>	2285.965775	1143.486525	2284.981759	1142.994517	17
8	<b>1237.686073</b>	619.346675	1220.659524	610.833400	1219.675508	610.341392	T	1863.766998	<b>932.387137</b>	1846.740449	923.873863	1845.756433	923.381855	16
9	1397.716722	699.361999	1380.690173	690.848725	1379.706157	690.356717	C	1762.719319	881.863298	1745.692770	873.350023	1744.708754	872.858015	15
10	1496.785136	748.896206	1479.758587	740.382932	1478.774571	739.890924	V	<b>1602.688670</b>	801.847973	1585.662121	793.334699	1584.678105	792.842691	14
11	<b>1611.812079</b>	806.409678	1594.785530	797.896403	<b>1593.801514</b>	797.404395	D	<b>1503.620256</b>	752.313766	1486.593707	743.800492	1485.609691	743.308483	13
12	1708.864843	854.936060	1691.838294	846.422785	1690.854278	845.930777	P	<b>1388.593313</b>	694.800294	1371.566764	686.287020	1370.582748	<b>685.795012</b>	12
13	1837.907436	919.457356	1820.880887	910.944082	1819.896871	910.452074	E	<b>1291.540549</b>	646.273912	1274.514000	637.760638	1273.529984	637.268630	11
14	1952.934379	976.970828	1935.907830	968.457553	1934.923814	967.965545	D	<b>1162.497956</b>	581.752616	1145.471407	573.239342	1144.487391	572.747333	10
15	2112.965028	1056.986152	2095.938479	1048.472877	2094.954463	1047.980869	C	<b>1047.471013</b>	<b>524.239144</b>	1030.444464	515.725870	1029.460448	515.233862	9
16	2210.017792	1105.512534	2192.991243	1096.999259	2192.007227	1096.507251	P	<b>887.440364</b>	444.223820	870.413815	435.710545	869.429799	435.218537	8
17	2309.086206	1155.046741	2292.059657	1146.533466	2291.075641	1146.041458	V	790.387600	395.697438	773.361051	387.184163	<b>772.377035</b>	386.692155	7
18	2469.116855	1235.062065	2452.090306	1226.548791	2451.106290	1226.056783	C	<b>691.319186</b>	346.163231	674.292637	337.649956	673.308621	337.157948	6
19	2598.159448	1299.583362	2581.132899	1291.070087	2580.148883	1290.578079	E	<b>531.288537</b>	266.147907	514.261988	257.634632	513.277972	257.142624	5
20	2697.227862	1349.117569	2680.201313	1340.604294	2679.217297	1340.112286	V	402.245944	201.626610	385.219395	193.113335			4
21	2768.264976	1384.636126	2751.238427	1376.122851	2750.254411	1375.630843	A	<b>303.177530</b>	152.092403	286.150981	143.579129			3
22	2825.286440	1413.146858	2808.259891	1404.633583	2807.275875	1404.141575	G	232.140416	116.573846	215.113867	108.060571			2
23							R	175.118952	88.063114	158.092403	79.549839			1



NCBI BLAST search of **ILDELLQTCVDPEDCPVCEVAGR**  
 (Parameters: blastp, nr protein database, expect=20000, no filter, PAM30)  
 Other BLAST [web gateways](#)

### All matches to this query

Score	Mr(calc):	Delta	Sequence
80.1	2998.390854	0.004338	<a href="#">ILDELLQTCVDPEDCPVCEVAGR</a>
1.5	2998.398026	-0.002834	<a href="#">VFQTYDPEDNGFIPDSLLEDVMK</a>