

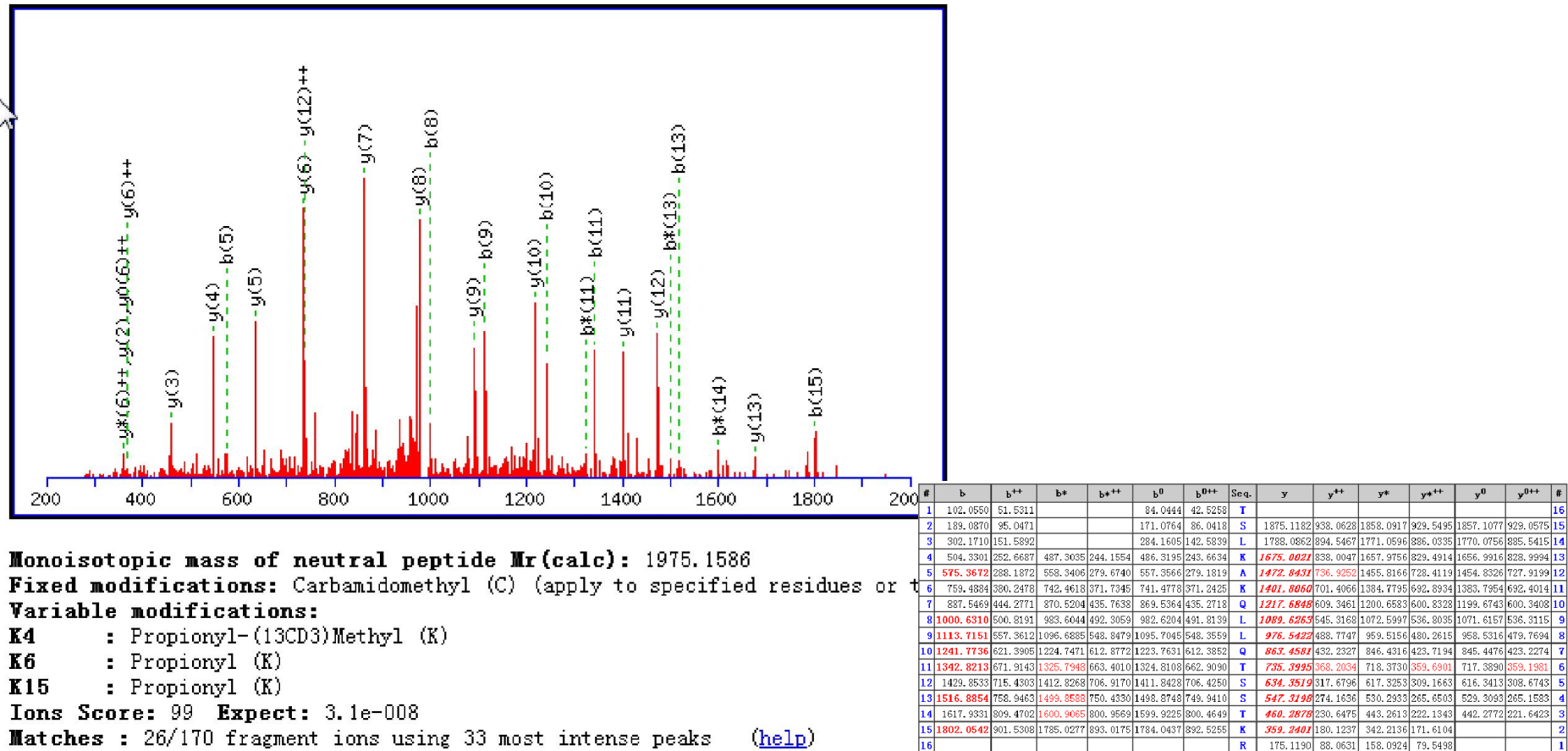
MS/MS Fragmentation of **TSLKAKQLLQTSSTKR**Found in **HOY9L2**, SLAIN motif-containing protein 2 (Fragment) OS=Homo sapiens GN=SLAIN2 PE=4 SV=1

Match to Query 14719: 1975.156108 from(988.585330,2+) intensity(194919.0938)

Title: File392 Spectrum14778 scans: 16369

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

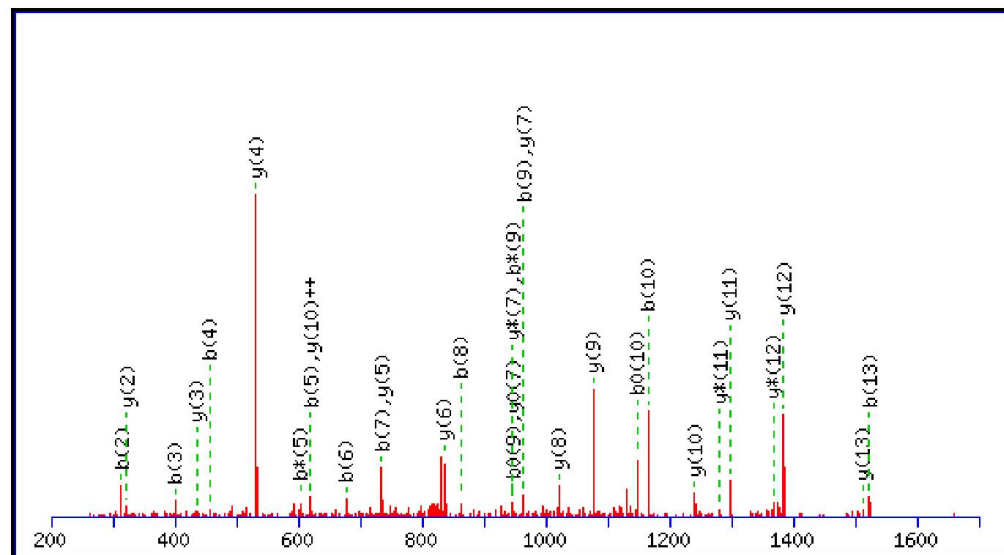
MS/MS Fragmentation of **KQSGYGGQTKPIFR**Found in **HOY3V9**, Uncharacterized protein (Fragment) OS=Homo sapiens PE=2 SV=1

Match to Query 10592: 1695.920508 from(848.967530,2+) intensity(857648.3125)

Title: File654 Spectrum10395 scans: 11930

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr4-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1695.9217**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl (K)**K10** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 97 **Expect:** 1.2e-007**Matches** : 31/142 fragment ions using 40 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							14
2	313.1870	157.0972	296.1605	148.5839			Q	1512.8078	756.9075	1495.7812	748.3943	1494.7972	747.9023	13
3	400.2191	200.6132	383.1925	192.0999	382.2085	191.6079	S	1384.7492	692.8782	1367.7227	684.3650	1366.7386	683.8730	12
4	457.2405	229.1239	440.2140	220.6106	439.2300	220.1186	G	1297.7172	649.3622	1280.6906	640.8490	1279.7066	640.3569	11
5	620.3039	310.6556	603.2773	302.1423	602.2933	301.6503	Y	1240.6957	620.8515	1223.6692	612.3382	1222.6852	611.8462	10
6	677.3253	339.1663	660.2988	330.6530	659.3148	330.1610	G	1077.6324	539.3198	1060.6058	530.8066	1059.6218	530.3146	9
7	734.3468	367.6770	717.3202	359.1638	716.3362	358.6717	G	1020.6109	510.8091	1003.5844	502.2958	1002.6004	501.8038	8
8	862.4054	431.7063	845.3788	423.1930	844.3948	422.7010	Q	963.5895	482.2984	946.5629	473.7851	945.5789	473.2931	7
9	963.4530	482.2302	946.4265	473.7169	945.4425	473.2249	T	835.5309	418.2691	818.5043	409.7558	817.5203	409.2638	6
10	1165.6121	583.3097	1148.5855	574.7964	1147.6015	574.3044	K	734.4832	367.7452	717.4567	359.2320			5
11	1262.6648	631.8360	1245.6383	623.3228	1244.6543	622.8308	P	532.3242	266.6657	515.2976	258.1525			4
12	1375.7489	688.3781	1358.7223	679.8648	1357.7383	679.3723	I	435.2714	218.1394	418.2449	209.6261			3
13	1522.8173	761.9123	1505.7907	753.3990	1504.8067	752.9070	F	322.1874	161.5973	305.1608	153.0840			2
14							R	175.1190	88.0631	158.0924	79.5498			1

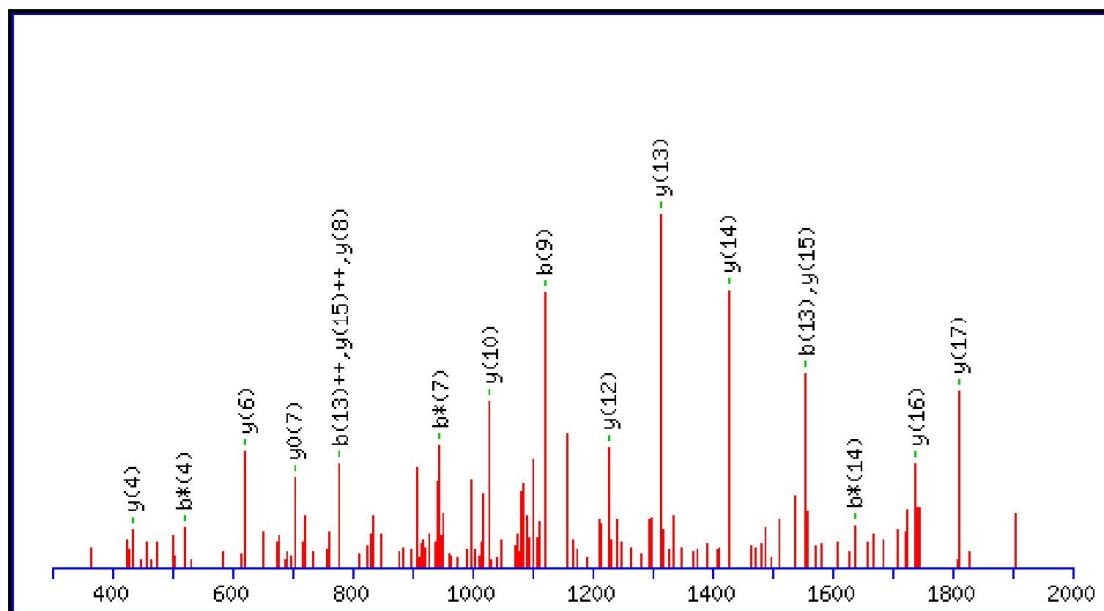
Found in **F6QR24**, Nuclear pore complex protein Nup153 OS=Homo sapiens GN=NUP153 PE=2 SV=1

Match to Query 14797: 2275.205668 from(1138.610110,2+) intensity(0.0000)

Title: File422 Spectrum9337 scans: 10829

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr13-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 2275.2023**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or**Variable modifications:****M2** : Label:13C(1)2H(3) (M)**K3** : Propionyl-(13CD3)Methyl (K)**K5** : Propionyl (K)**Ions Score:** 92 **Expect:** 5.4e-007**Matches** : 18/210 fragment ions using 16 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺ ++	b ⁰	b ⁰ ++	Seq.	y	y ⁺⁺	y ⁺	y ⁺ ++	y ⁰	y ⁰ ++	#	
1	129.0659	65.0366	112.0393	56.5233				Q						20	
2	254.1285	132.5679	247.1020	124.0546				I	2148.1511	1074.5792	2131.1245	1066.0659	2130.1495	1065.5739	19
3	466.2375	233.6474	449.2610	225.1341				K	2013.0884	1007.0478	1996.0618	998.5346	1995.0778	998.0425	18
4	537.3247	269.1660	520.2981	260.6527				A	1810.9294	905.9683	1793.9028	897.4550	1792.9188	896.9630	17
5	721.4458	361.2266	704.4193	352.7133				K	1739.8925	870.4498	1722.8657	861.9365	1721.8817	861.4445	16
6	849.5044	425.2558	832.4779	416.7426				Q	1555.7711	778.3892	1538.7445	769.8759	1537.7605	769.3839	15
7	962.5885	481.7979	945.5619	473.2948				L	1427.7125	714.3599	1410.6860	705.8466	1409.7019	705.3546	14
8	1049.6205	525.3139	1032.5940	516.8006	1031.6099	516.3086	S	1314.6284	657.8173	1297.6019	649.3046	1296.6179	648.8126	13	
9	1120.6576	560.8324	1103.6311	552.3192	1102.6470	551.8272	A	1227.5964	614.3018	1210.5699	605.7886	1209.5858	605.2966	12	
10	1248.7162	624.8617	1231.6896	616.3485	1230.7056	615.8565	Q	1156.5593	579.7833	1139.5327	570.2700	1138.5487	569.7780	11	
11	1335.7482	668.3777	1318.7217	659.8645	1317.7377	659.3725	S	1028.5007	514.7540	1011.4742	506.2407	1010.4902	505.7487	10	
12	1498.8115	749.9094	1481.7850	741.3961	1480.8010	740.9041	Y	941.4687	471.2380	924.4421	462.7247	923.4581	462.2327	9	
13	1555.8330	778.4201	1538.8065	769.9069	1537.8224	769.4149	G	778.4054	389.7063	761.3788	381.1930	760.3948	380.7010	8	
14	1654.9014	827.9644	1637.8749	819.4411	1636.8909	818.9491	Y	721.3839	361.1956	704.3673	352.6823	703.3733	352.1903	7	
15	1755.9491	878.4782	1738.9226	869.9649	1737.9385	869.4729	T	622.3155	311.6614	605.2889	303.1481	604.3049	302.6561	6	
16	1842.9811	921.9942	1825.9646	913.4809	1824.9706	912.9889	S	521.2678	261.1375	504.2413	252.6243	503.2572	252.1323	5	
17	1930.0132	965.5102	1912.9866	956.9969	1912.0026	956.5049	S	434.2358	217.6215	417.2092	209.1083	416.2252	208.6162	4	
18	2031.0608	1016.0341	2014.0343	1007.5208	2013.0503	1007.0288	T	347.2037	174.1055	330.1772	165.5922	329.1932	165.1002	3	
19	2102.0980	1051.5526	2085.0714	1043.0393	2084.0874	1042.5473	A	246.1561	123.5817	229.1295	115.0684			2	
20							R	175.1190	88.0631	153.0924	79.5496			1	

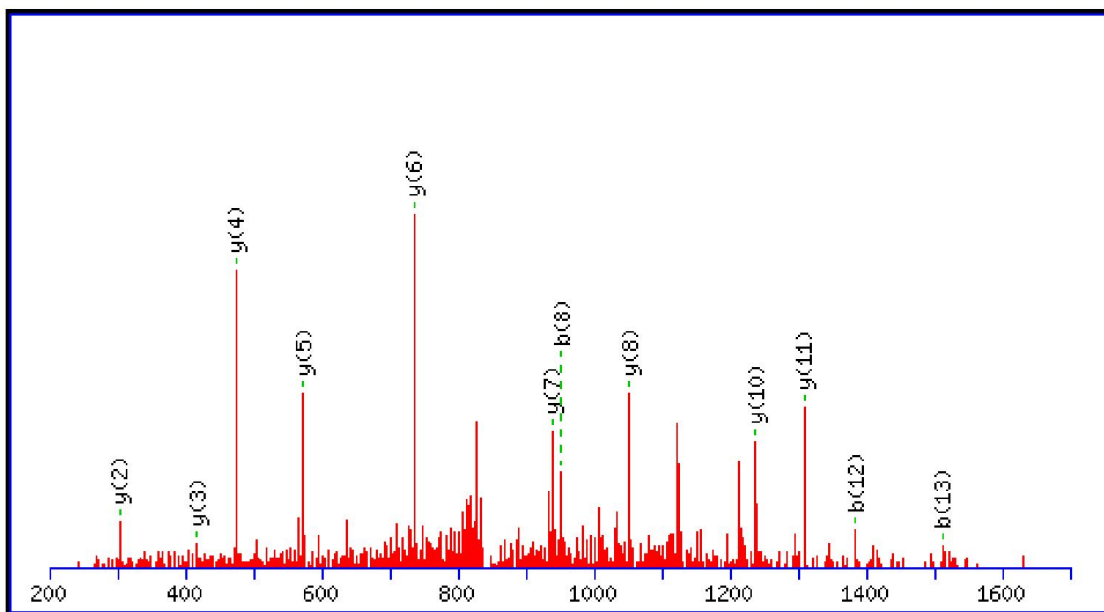
MS/MS Fragmentation of **YSQADALKYVGIER**Found in **Q15910**, Histone-lysine N-methyltransferase EZH2 OS=Homo sapiens GN=EZH2 PE=1 SV=2

Match to Query 9792: 1685.890608 from(843.952580, 2+) intensity(47430.5039)

Title: File419 Spectrum12074 scans: 13797

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-06-05-SW620-Kpropio-methyl-IP-Fr9-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc): 1685.8897**

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

Variable modifications:

K8 : Propionyl-(13CD3)Methyl (K)

Ions Score: 85 Expect: 1.6e-006

Matches : 12/148 fragment ions using 14 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	164.0706	82.5389					Y							14
2	251.1026	126.0550			233.0921	117.0497	S	1523.8337	762.4205	1506.8071	753.9072	1505.8231	753.4152	13
3	379.1612	190.0842	362.1347	181.5710	361.1506	181.0790	Q	1436.8016	718.9045	1419.7751	710.3912	1418.7911	709.8992	12
4	450.1983	225.6028	433.1718	217.0895	432.1878	216.5975	A	1308.7431	654.8752	1291.7165	646.3619	1290.7325	645.8699	11
5	565.2253	283.1163	548.1987	274.6030	547.2147	274.1120	D	1237.7059	619.3566	1220.6794	610.8453	1219.6954	610.3513	10
6	636.2624	318.6348	619.2358	310.1216	618.2518	309.6295	A	1122.6790	561.8431	1105.6825	553.3299	1104.6684	552.8379	9
7	749.3464	375.1769	732.3199	366.6636	731.3359	366.1716	L	1051.6419	526.3246	1034.6153	517.8113	1033.6313	517.3193	8
8	951.5055	476.2564	934.4789	467.7431	933.4949	467.2511	K	938.5578	469.7826	921.5313	461.2693	920.5473	460.7773	7
9	1114.5688	557.7880	1097.5422	549.2748	1096.5582	548.7827	Y	736.3988	368.7030	719.3723	360.1898	718.3883	359.6978	6
10	1213.6372	607.3222	1196.6107	598.8090	1195.6266	598.3170	V	573.3355	287.1714	556.3089	278.6581	555.3249	278.1661	5
11	1270.6587	635.8330	1253.6321	627.3197	1252.6481	626.8277	G	474.2671	237.6372	457.2405	229.1239	456.2565	228.6319	4
12	1383.7427	692.3750	1366.7162	683.8617	1365.7322	683.3697	I	417.2456	209.1264	400.2191	200.6132	399.2350	200.1212	3
13	1512.7853	756.8963	1495.7588	748.3830	1494.7748	747.8910	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
14							R	175.1190	88.0631	158.0924	79.5498			1

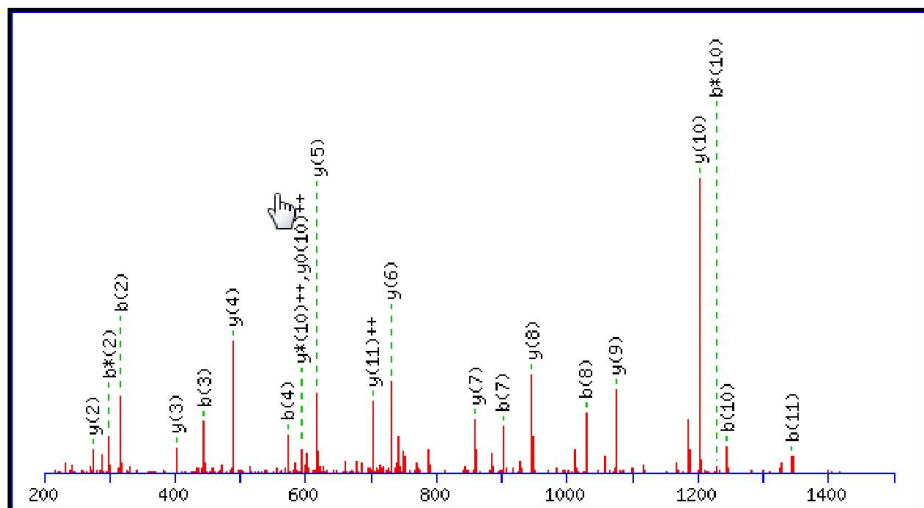
MS/MS Fragmentation of **LKQQSELQSQVR**Found in **C9J9W2**, LIM and SH3 domain protein 1 (Fragment) OS=Homo sapiens GN=LASPI PE=2 SV=1

Match to Query 7819: 1516.847868 from(759.431210, 2+) intensity(891431.9375)

Title: File660 Spectrum4849 scans: 5963

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr3-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1516.8482**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 78 **Expect:** 8.6e-006**Matches** : 21/116 fragment ions using 25 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							12
2	316.2504	158.6288	299.2238	150.1155			K	1404.7714	702.8893	1387.7449	694.3761	1386.7608	693.8841	11
3	444.3089	222.6581	427.2824	214.1448			Q	1202.6124	601.8098	1185.5858	593.2966	1184.6018	592.8046	10
4	572.3675	286.6874	555.3410	278.1741			Q	1074.5538	537.7805	1057.5273	529.2673	1056.5432	528.7753	9
5	659.3995	330.2034	642.3730	321.6901	641.3890	321.1981	S	946.4952	473.7513	929.4687	465.2380	928.4847	464.7460	8
6	788.4421	394.7247	771.4156	386.2114	770.4316	385.7194	E	859.4632	430.2352	842.4367	421.7220	841.4526	421.2300	7
7	901.5262	451.2667	884.4996	442.7535	883.5156	442.2615	L	730.4206	365.7139	713.3941	357.2007	712.4100	356.7087	6
8	1029.5848	515.2960	1012.5582	506.7827	1011.5742	506.2907	Q	617.3366	309.1719	600.3100	300.6586	599.3260	300.1666	5
9	1116.6168	558.8120	1099.5903	550.2988	1098.6062	549.8068	S	489.2780	245.1426	472.2514	236.6293	471.2674	236.1373	4
10	1244.6754	622.8413	1227.6488	614.3281	1226.6648	613.8360	Q	402.2459	201.6266	385.2194	193.1133			3
11	1343.7438	672.3755	1326.7172	663.8623	1325.7332	663.3703	V	274.1874	137.5973	257.1608	129.0840			2
12							R	175.1190	88.0631	158.0924	79.5498			1

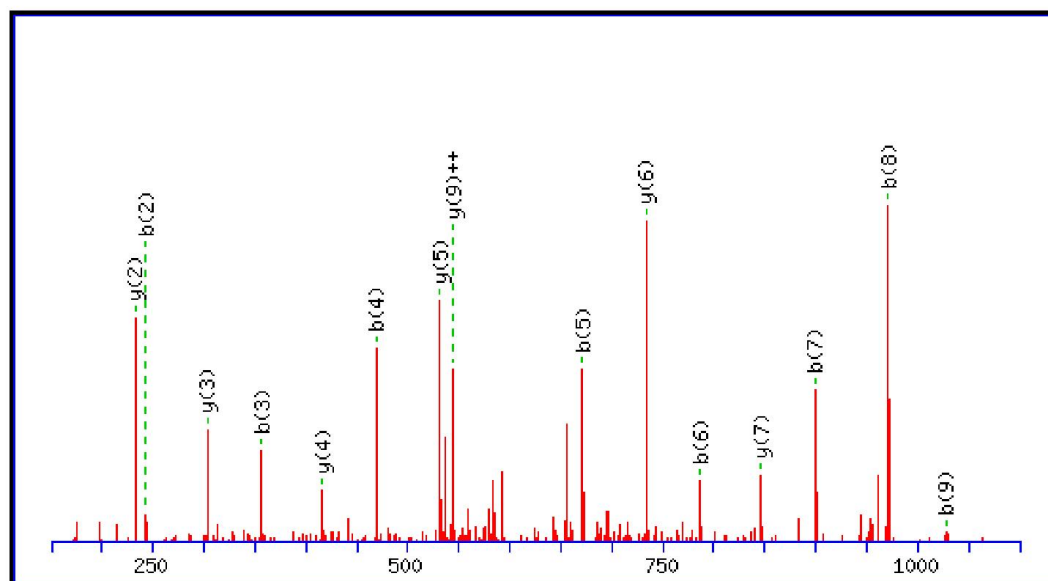
Found in **J3KPX7**, Prohibitin-2 OS=Homo sapiens GN=PHB2 PE=4 SV=1

Match to Query 3718: 1200.673808 from(601.344180, 2+) intensity(782513.6875)

Title: File440 Spectrum14076 scans: 15700

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1200.6735**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****N-term :** Acetyl (Protein N-term)**K5 :** Propionyl-(13CD3)Methyl (K)**Ions Score:** 73 **Expect:** 2.3e-005**Matches :** 15/88 fragment ions using 18 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0550	57.5311					A							10
2	242.1135	121.5604	225.0870	113.0471			Q	1088.6331	544.8202	1071.6066	536.3069	1070.6226	535.8149	9
3	356.1565	178.5819	339.1299	170.0686			N	960.5745	480.7909	943.5480	472.2776	942.5640	471.7856	8
4	469.2405	235.1239	452.2140	226.6106			L	846.5316	423.7694	829.5051	415.2562	828.5210	414.7642	7
5	671.3995	336.2034	654.3730	327.6901			K	733.4476	367.2274	716.4210	358.7141	715.4370	358.2221	6
6	786.4265	393.7169	769.3999	385.2036	768.4159	384.7116	D	531.2885	266.1479	514.2620	257.6346	513.2780	257.1426	5
7	899.5105	450.2589	882.4840	441.7456	881.5000	441.2536	L	416.2616	208.6344	399.2350	200.1212			4
8	970.5477	485.7775	953.5211	477.2642	952.5371	476.7722	A	303.1775	152.0924	286.1510	143.5791			3
9	1027.5691	514.2882	1010.5426	505.7749	1009.5586	505.2829	G	232.1404	116.5738	215.1139	108.0606			2
10							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **EATLKMAQLADSPR**

Found in **Q9NRJ4**, Tubby-related protein 4 OS=Homo sapiens GN=TULP4 PE=2 SV=2

Match to Query 9788: 1607.872408 from(804.943480, 2+) intensity(66701.1953)

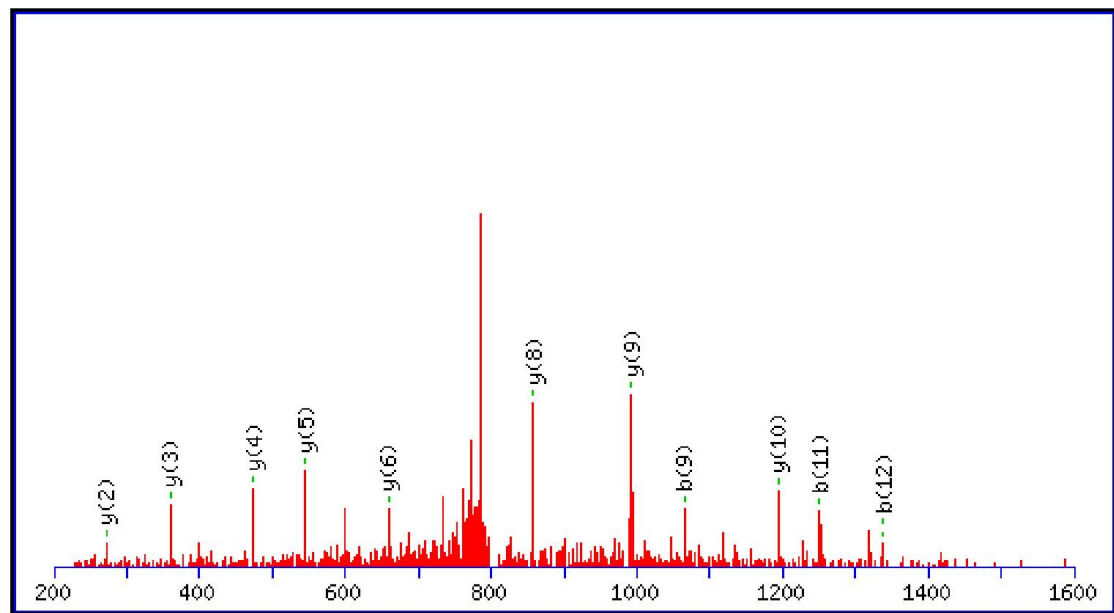
Title: File394 Spectrum13004 scans: 14506

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1607.8734

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

Variable modifications:

K5 : Propionyl-(13CD3)Methyl (K)

M6 : Label:13C(1)2H(3) (M)

Ions Score: 70 Expect: 5.9e-005

Matches : 11/144 fragment ions using 14 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	K							14
2	201.0870	101.0471			183.0764	92.0418	A	1479.8381	740.4227	1462.8115	731.9094	1461.8275	731.4174	13
3	302.1347	151.5710			284.1241	142.5657	T	1408.8010	704.9041	1391.7744	696.3909	1390.7904	695.8988	12
4	415.2187	208.1130			397.2082	199.1077	L	1307.7533	654.3803	1290.7268	645.8670	1289.7427	645.3750	11
5	617.3777	308.1925	600.3512	300.6792	599.3672	300.1872	K	1194.6692	597.8383	1177.6427	589.3250	1176.6587	588.8330	10
6	752.4404	376.7238	735.4139	368.2106	734.4298	367.7186	N	992.5102	496.7588	975.4837	488.2455	974.4997	487.7535	9
7	823.4775	412.2424	806.4510	403.7291	805.4670	403.2371	A	857.4476	423.2274	840.4210	420.7141	839.4370	420.2221	8
8	951.5361	476.2717	934.5096	467.7584	933.5255	467.2664	Q	796.4104	393.7089	769.3839	385.1956	768.3999	384.7036	7
9	1064.6202	532.8137	1047.5936	524.3004	1046.6096	523.8084	L	658.3519	329.6796	641.3253	321.1663	640.3413	320.6743	6
10	1135.6573	568.3328	1118.6307	559.8190	1117.6467	559.3270	A	545.2678	273.1375	528.2413	264.6243	527.2572	264.1823	5
11	1250.6842	625.8457	1233.6577	617.3325	1232.6737	616.8405	D	474.8307	237.6190	457.2041	229.1057	456.2201	228.6137	4
12	1337.7163	669.3618	1320.6897	660.8485	1319.7057	660.3565	S	359.2037	180.1055	342.1772	171.5922	341.1932	171.1002	3
13	1434.7690	717.8881	1417.7425	709.3749	1416.7584	708.8829	P	272.1717	136.5895	265.1452	128.0762	264.1388	127.5622	2
14							R	175.1190	88.0631	158.0924	79.5498			1

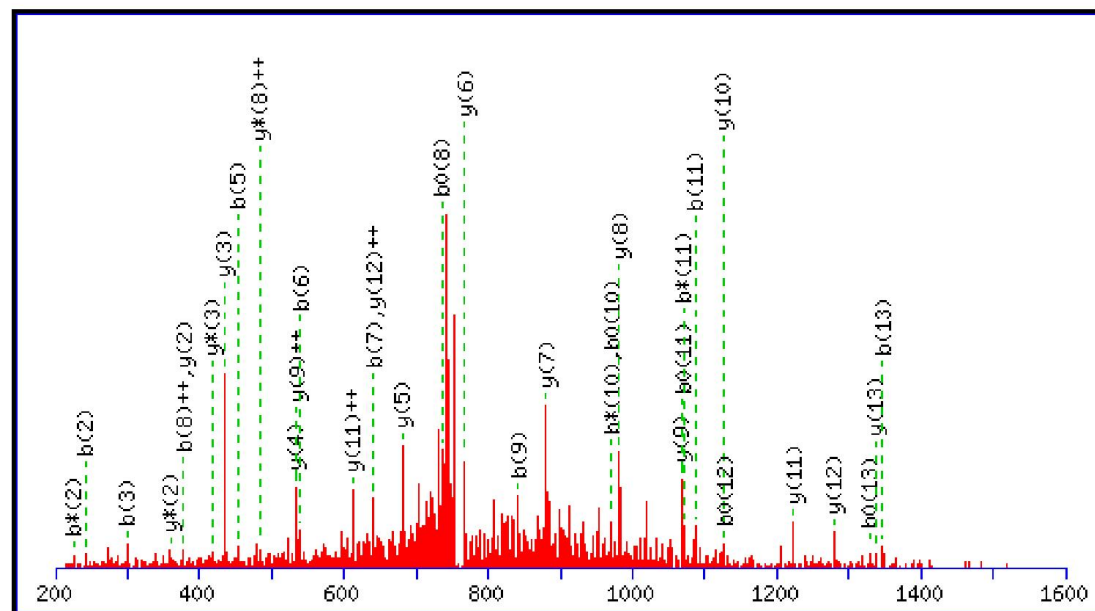
Found in **Q9BQ61**, Uncharacterized protein C19orf43 OS=Homo sapiens GN=C19orf43 PE=1 SV=1

Match to Query 8650: 1519.860928 from(760.937740,2+) intensity(65464.1211)

Title: File649 Spectrum13509 scans: 14933

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr20-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc): 1519.8631**

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

Variable modifications:

K1 : Propionyl (K)

K13 : Propionyl-(13CD3)Methyl (K)

Ions Score: 69 Expect: 5.2e-005

Matches : 35/136 fragment ions using 78 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	95.0679	168.1019	84.5546										14
2	242.1499	121.6786	225.1234	113.0653				G	1336.7492	668.8782	1319.7227	660.3650	1318.7396	659.8730
3	299.1714	150.0893	282.1448	141.5761				G	1279.7277	640.3675	1262.7012	631.8542	1261.7172	631.3622
4	396.2241	198.6157	379.1976	190.1024				P	1222.7063	611.8568	1205.6797	603.3455	1204.6957	602.8515
5	453.2456	227.1264	436.2191	218.6132				G	1125.6535	563.3304	1108.6270	554.8171	1107.6430	554.3251
6	540.2776	270.6426	523.2511	262.1292	522.2671	261.6372	S	1068.6321	534.8197	1051.6055	526.3064	1050.6215	525.8144	
7	641.3253	321.1663	624.2988	312.6530	623.3148	312.1610	T	981.6002	491.3037	964.5735	482.7904	963.5895	482.2984	
8	764.4094	377.7083	737.3828	369.1951	736.3988	368.7030	L	880.5523	440.7798	863.5258	452.2665	862.5418	451.7745	
9	841.4414	421.2245	824.4149	412.7111	823.4308	412.2191	S	767.4683	384.2378	750.4417	375.7245	749.4577	375.2325	
10	988.5098	494.7585	971.4833	486.2453	970.4993	485.7533	F	680.4363	340.7218	663.4097	332.2085			
11	1087.5782	544.2928	1070.5517	535.7795	1069.5677	535.2875	V	533.3678	267.1876	516.3413	258.6743			
12	1144.5997	572.8035	1127.5732	564.2902	1126.5891	563.7982	G	434.2994	217.6534	417.2729	209.1401			
13	1346.7587	673.8830	1329.7322	665.3697	1328.7481	664.8777	K	377.2780	189.1426	360.2614	180.6293			
14							R	175.1190	88.0631	158.0924	79.5498			

Match to Query 9012: 1684.978848 from(843.496700,2+) intensity(83880.1172)

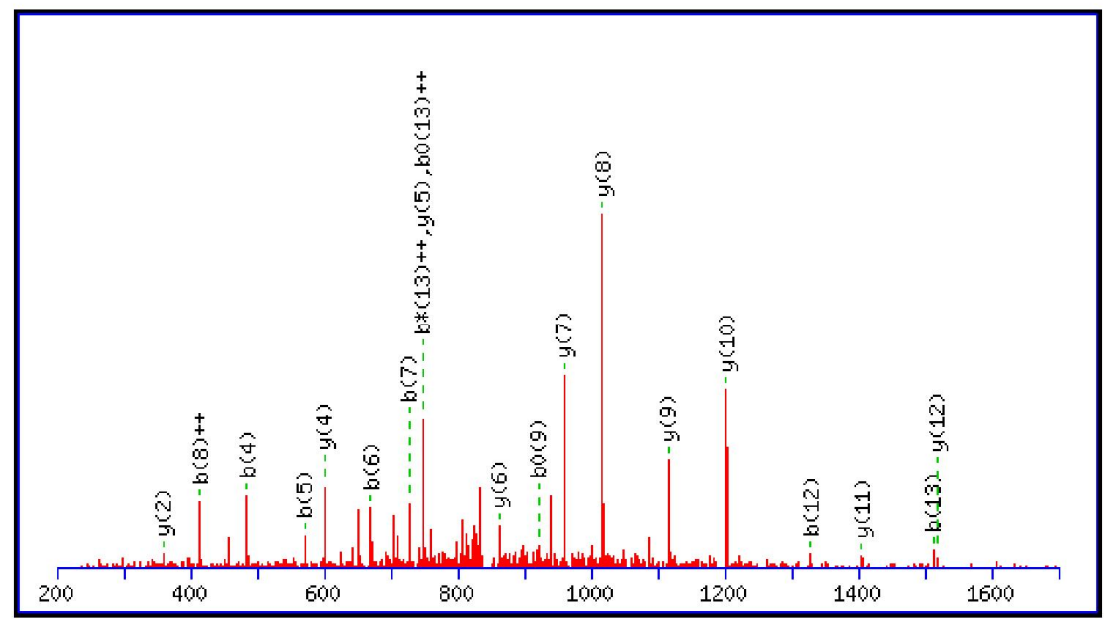
Title: File667 Spectrum11996 scans: 13910

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr18-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1684.9785
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or
Variable modifications:
K4 : Propionyl-(13CD3)Methyl (K)
K12 : Propionyl (K)
K13 : Propionyl (K)
Ions Score: 68 **Expect:** 5.1e-005
Matches : 20/132 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	96.5258					A							14
2	169.0972	85.0522					P	1614.9486	807.9780	1597.9221	799.4647	1596.9381	798.9727	13
3	282.1812	141.5942				I	L	1517.8959	759.4516	1500.8693	750.9383	1499.8853	750.4463	12
4	484.3402	242.6738	467.3137	234.1605			K	1404.8118	702.9095	1387.7853	694.3963	1386.8012	693.9043	11
5	571.3723	286.1898	554.3457	277.6765	553.3617	277.1845	S	1202.6528	601.8300	1185.6263	593.3168	1184.6422	592.8248	10
6	670.4407	335.7290	653.4141	327.2107	652.4301	326.7187	V	1115.6208	558.3140	1098.5942	549.8007	1097.6102	549.3087	9
7	727.4621	364.2347	710.4356	355.7214	709.4516	355.2294	G	1016.5524	508.7798	999.5258	500.2665	998.5418	499.7745	8
8	824.5149	412.7611	807.4884	404.2478	806.5043	403.7558	P	959.5309	480.2691	942.5043	471.7558	941.5203	471.2638	7
9	939.5418	470.2746	922.5153	461.7613	921.5313	461.2693	D	862.4781	431.7427	845.4516	423.2294	844.4676	422.7374	6
10	1086.6103	543.8088	1069.5837	535.2955	1068.5997	534.8035	F	747.4512	374.2292	730.4246	365.7160			5
11	1143.6517	572.3195	1126.6052	563.8062	1125.6212	563.3142	G	600.3828	300.6950	583.3562	292.1817			4
12	1327.7529	664.3801	1310.7264	655.8668	1309.7423	655.3748	K	543.3613	272.1843	526.3348	263.6710			3
13	1511.8741	756.4407	1494.8475	747.9274	1493.8635	747.4354	K	359.2401	180.1237	342.2136	171.6104			2
14							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **SGPSDHDLKPNAAIR**

Found in **A8MYT4**, Phosphatidylinositol 3-kinase catalytic subunit type 3 OS=Homo sapiens GN=PIK3C3 PE=2 SV=2

Match to Query 8779: 1638.823708 from(820.419130,2+) intensity(147951.2969)

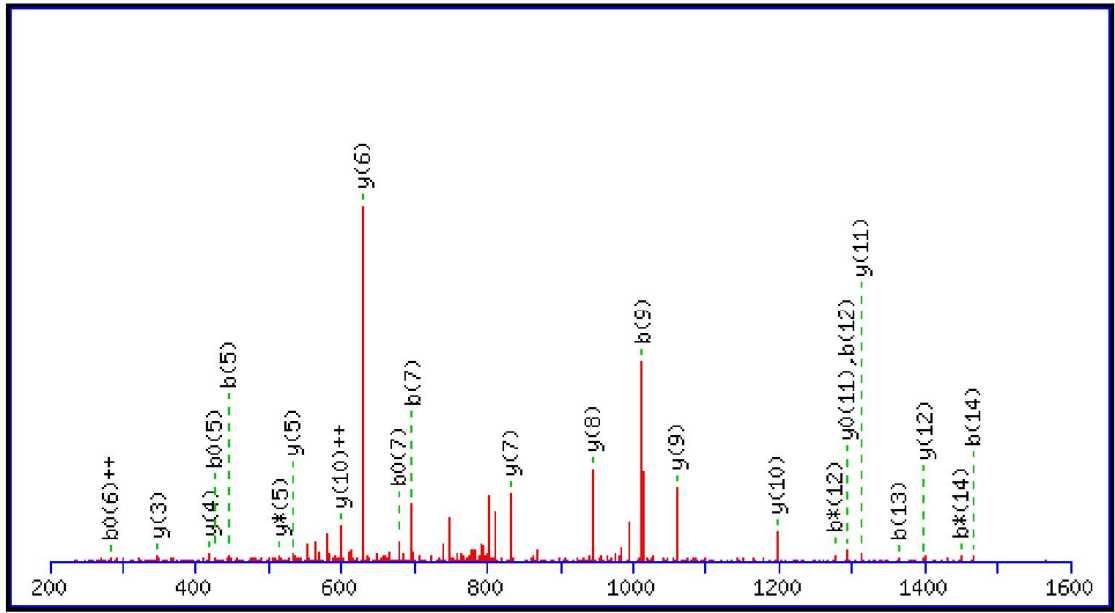
Title: File386 Spectrum6160 scans: 7108

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Frl4-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1638.8234

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

Variable modifications:

K9 : Propionyl-(13CD3)Methyl (K)

Ions Score: 67 Expect: 7.4e-005

Matches : 24/150 fragment ions using 40 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	95.5190	S							15
2	145.0608	73.0340			127.0502	64.0287	G	1552.7987	776.9030	1536.7721	768.3897	1534.7881	767.8977	14
3	242.1135	121.5604			224.1030	112.5551	P	1495.7772	748.3922	1478.7507	739.8790	1477.7667	739.3870	13
4	329.1456	165.0764			311.1350	156.0711	S	1398.7245	699.8659	1381.6979	691.3526	1380.7139	690.8606	12
5	444.1725	222.5899			426.1619	213.5846	D	1311.6924	656.3499	1294.6659	647.8366	1293.6819	647.3448	11
6	581.2314	291.1193			563.2209	282.1141	H	1196.6655	598.8364	1179.6389	590.3231	1178.6549	589.8311	10
7	696.2584	348.6328			678.2478	339.6275	D	1059.6066	530.3069	1042.5800	521.7936	1041.5960	521.3016	9
8	809.3424	405.1748			791.3319	396.1696	L	944.5796	472.7935	927.5531	464.2802	926.5691	463.7882	8
9	1011.5014	506.2544	994.4749	497.7411	993.4909	497.2491	K	831.4956	416.2514	814.4690	407.7381	813.4850	407.2461	7
10	1108.5542	554.7807	1091.5277	546.2675	1090.5436	545.7755	P	629.3365	315.1719	612.3100	306.6586	611.3260	306.1666	6
11	1222.5971	611.8022	1205.5706	603.2889	1204.5866	602.7969	N	532.2836	266.6455	515.2572	258.1323	514.2732	257.6402	5
12	1293.6342	647.3208	1276.6071	638.8075	1275.6237	638.3155	A	418.2409	209.6241	401.2143	201.1108	400.2303	200.6193	4
13	1364.6714	682.8393	1347.6448	674.3260	1346.6608	673.8340	A	347.2037	174.1055	330.1772	165.5922	329.1932	165.1002	3
14	1465.7190	733.3632	1448.6925	724.8499	1447.7085	724.3579	T	276.1666	138.5870	259.1401	130.0737	258.1561	129.5817	2
15							R	175.1190	88.0631	168.0924	79.5498			1

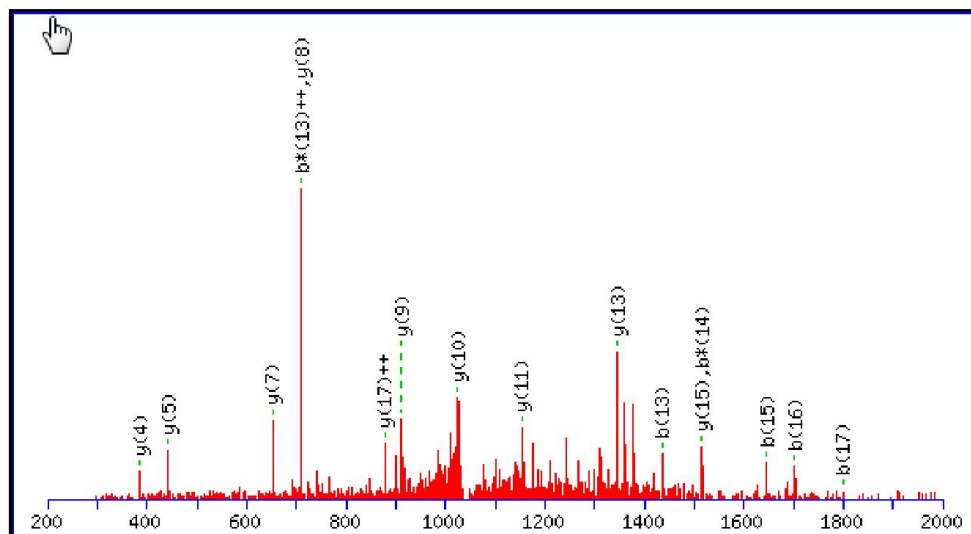
MS/MS Fragmentation of **TDDGKGLGMQLKGPLGPGGR**Found in **Q9NQS1**, Cell death regulator Aven OS=Homo sapiens GN=AVEN PE=1 SV=1

Match to Query 15036: 2087.123148 from(1044.568850, 2+) intensity(67384.5625)

Title: File658 Spectrum13479 scans: 15088

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr17-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 2087.1227**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K5** : Propionyl (K)**M9** : Label:13C(1)2H(3) (M)**K12** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 67 **Expect:** 0.00014**Matches** : 16/186 fragment ions using 17 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁰	b ⁰	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰	#
1	102.0550	51.5311			84.0444	42.5258	T						20
2	217.0819	109.0446			199.0713	100.0393	D	1987.0822	994.0448	1970.0557	985.5315	1969.0717	985.0395
3	332.1088	166.5581			314.0983	157.5528	D	1872.0653	936.5313	1855.0288	928.0180	1854.0447	927.5260
4	389.1303	195.0688			371.1197	186.0635	G	1757.0284	879.0178	1740.0018	870.5045		17
5	573.2515	287.1294	556.2249	278.6161	555.2409	278.1241	K	1700.0069	850.5071	1682.9803	841.9938		16
6	630.2729	315.6401	613.2464	307.1268	612.2624	306.6348	G	1515.8857	758.4465	1498.8592	749.9332		15
7	743.3570	372.1821	726.3305	363.6689	725.3464	363.1769	L	1458.8643	729.9358	1441.8377	721.4225		14
8	800.3785	400.6929	783.3519	392.1796	782.3679	391.6876	G	1395.7802	673.3937	1328.7536	664.8805		13
9	935.4411	468.2242	918.4146	459.7109	917.4306	459.2189	I	1288.7587	644.8830	1271.7322	636.3697		12
10	1063.4997	532.2535	1046.4732	523.7402	1045.4892	523.2482	Q	1153.6961	577.3517	1136.6696	568.8384		11
11	1176.5838	588.7965	1159.5572	580.2823	1158.5732	579.7902	L	1025.6378	513.3224	1008.6109	504.8091		10
12	1378.7428	689.8750	1361.7163	681.3618	1360.7322	680.8638	K	912.5534	456.7803	895.5269	448.2671		9
13	1435.7643	718.3858	1418.7377	709.8725	1417.7537	709.3805	G	710.3944	355.7008	693.3679	347.1876		8
14	1532.8170	766.9122	1515.7905	758.3989	1514.8065	757.9069	P	653.3729	327.1901	636.3464	318.6768		7
15	1645.9011	823.4542	1628.8745	814.9409	1627.8905	814.4489	L	556.3202	278.6637	539.2936	270.1504		6
16	1702.9226	851.9649	1685.8960	843.4516	1684.9120	842.9596	G	443.2361	222.1217	426.2096	213.6084		5
17	1799.9753	900.4913	1782.9488	891.9780	1781.9648	891.4860	P	386.2146	193.6110	369.1881	185.0977		4
18	1856.9968	929.0201	1839.9702	920.4888	1838.9862	919.9967	C	289.1619	145.0846	272.1353	136.5713		3
19	1914.0182	957.5128	1896.9917	948.9995	1896.0077	948.5075	G	232.1404	116.5738	215.1139	108.0606		2
20							R	175.1190	88.0631	158.0924	79.5498		1

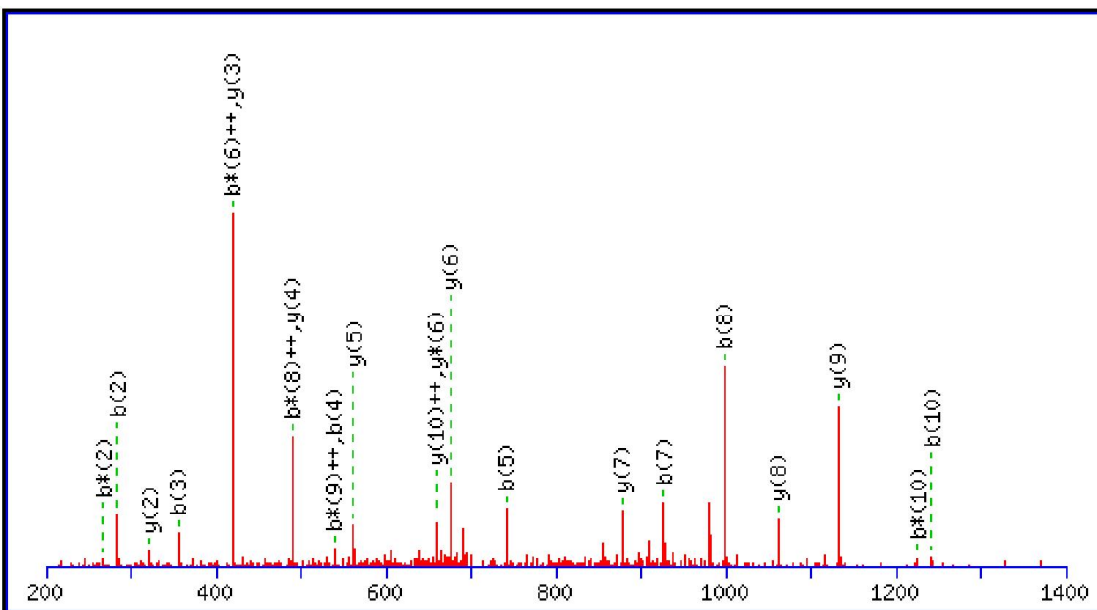
Found in **Q9BVP2**, Guanine nucleotide-binding protein-like 3 OS=Homo sapiens GN=GNL3 PE=1 SV=2

Match to Query 6244: 1414.857148 from(708.435850,2+) intensity(303580.1563)

Title: File386 Spectrum10835 scans: 12137

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr14-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1414.8569

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

Variable modifications:

K2 : Propionyl (K)**K4** : Propionyl (K)**K5** : Propionyl-(13CD3)Methyl (K)

Ions Score: 66 Expect: 5.3e-005

Matches : 22/78 fragment ions using 24 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	#
1	100.0757	50.5415			V					11
2	284.1969	142.6021	267.1703	134.0888	K	1316.7958	658.9015	1299.7692	650.3882	10
3	355.2340	178.1206	338.2074	169.6074	A	1132.6746	566.8409	1115.6480	558.3277	9
4	539.3552	270.1812	522.3286	261.6679	K	1061.6375	531.3224	1044.6109	522.8091	8
5	741.5142	371.2607	724.4876	362.7475	K	877.5163	439.2618	860.4897	430.7485	7
6	855.5571	428.2822	838.5306	419.7689	N	675.3573	338.1823	658.3307	329.6690	6
7	926.5942	463.8007	909.5677	455.2875	A	561.3144	281.1608	544.2878	272.6475	5
8	997.6313	499.3193	980.6048	490.8060	A	490.2772	245.6423	473.2507	237.1290	4
9	1094.6841	547.8457	1077.6575	539.3324	P	419.2401	210.1237	402.2136	201.6104	3
10	1241.7525	621.3799	1224.7260	612.8666	F	322.1874	161.5973	305.1608	153.0840	2
11					R	175.1190	88.0631	158.0924	79.5498	1

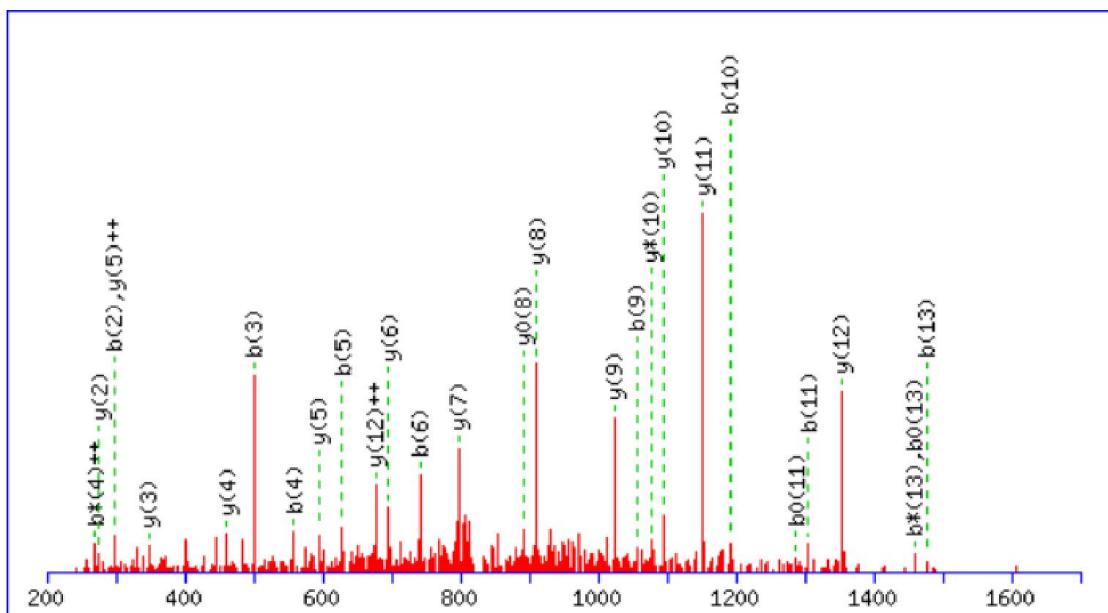
Found in **E9PBG7**, Calcium/calmodulin-dependent protein kinase type II subunit delta OS=Homo sapiens GN=CAMK2D PE=2 SV=1

Match to Query 10827: 1650.033788 from(826.024170,2+) intensity(613010.8125)

Title: File392 Spectrum18879 scans: 20903

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1650.0295

Fixed modifications: Carbamidomethyl (C) (apply to specified resi

Variable modifications:

K1 : Propionyl (K)

K3 : Propionyl-(13CD3)Methyl (K)

M10 : Label:13C(1)2H(3) (M)

Ions Score: 66 Expect: 2.1e-005

Matches : 28/140 fragment ions using 53 most intense peaks

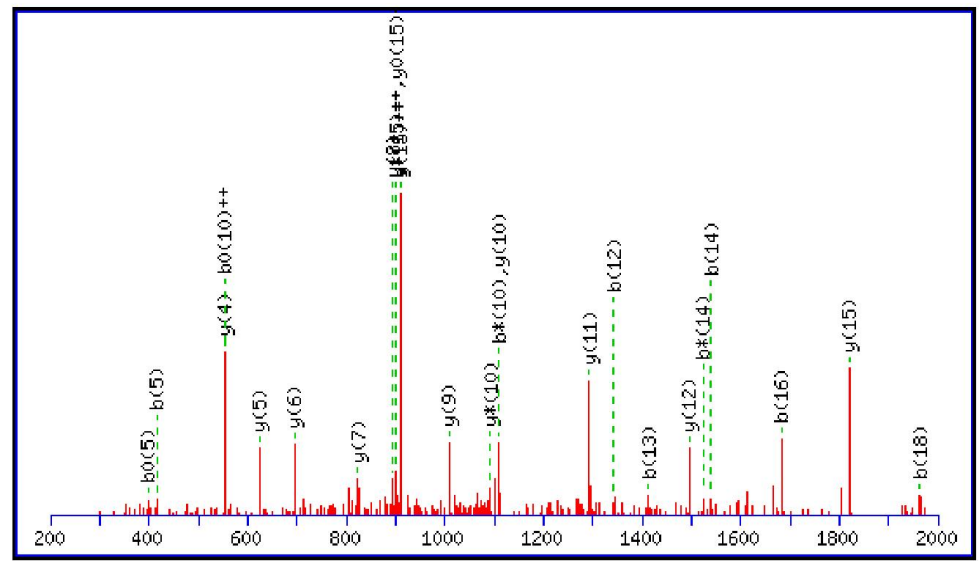
[\(hel](#)

#	b	b ⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							14
2	298.2125	149.6099	281.1860	141.0966			L	1466.9156	733.9614	1449.8891	725.4482	1448.9051	724.9562	13
3	500.3715	250.6894	483.3450	242.1761			K	1353.8316	677.4194	1336.8050	668.9061	1335.8210	668.4141	12
4	557.3930	279.2001	540.3664	270.6869			G	1151.6725	576.3399	1134.6460	567.8266	1133.6620	567.3346	11
5	628.4301	314.7187	611.4036	306.2054			A	1094.6511	547.8292	1077.6245	539.3159	1076.6405	538.8239	10
6	741.5142	371.2607	724.4876	362.7475			I	1023.6140	512.3106	1006.5874	503.7973	1005.6034	503.3053	9
7	854.5982	427.8028	837.5717	419.2895			L	910.5299	455.7686	893.5034	447.2553	892.5193	446.7633	8
8	955.6459	478.3266	938.6194	469.8133	937.6354	469.3213	T	797.4458	399.2266	780.4193	390.7133	779.4353	390.2213	7
9	1056.6936	528.8504	1039.6670	520.3372	1038.6830	519.8452	T	696.3982	348.7027	679.3716	340.1894	678.3876	339.6974	6
10	1191.7563	596.3818	1174.7297	587.8685	1173.7457	587.3765	M	595.3505	298.1789	578.3239	289.6656	577.3399	289.1736	5
11	1304.8403	652.9238	1287.8138	644.4105	1286.8298	643.9185	L	460.2878	230.6475	443.2613	222.1343	442.2772	221.6423	4
12	1375.8774	688.4424	1358.8509	679.9291	1357.8669	679.4371	A	347.2037	174.1055	330.1772	165.5922	329.1932	165.1002	3
13	1476.9251	738.9662	1459.8986	730.4529	1458.9146	729.9609	T	276.1666	138.5870	259.1401	130.0757	258.1561	129.5817	2
14							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **AASVSPNLKKTNAQAAPKPR**
 Found in **B4DH53**, MAP1S light chain OS=Homo sapiens GN=MAP1S PE=2 SV=1

Match to Query 16359: 2234.266448 from(1118.140500,2+) intensity(111044.6719)
 Title: File386 Spectrum10990 scans: 12302
 Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr14-ZW.mgf

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



Monoisotopic mass of neutral peptide Mr(calc): 2234.2655
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)
Variable modifications:
K9 : Propionyl-(13CD3)Methyl (K)
K10 : Propionyl (K)
K18 : Propionyl (K)
Ions Score: 63 **Expect:** 0.00019
Matches : 24/194 fragment ions using 34 most intense peaks ([help](#))

#	b	y ⁺⁺	b*	b ⁺⁺	b ⁰	y ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							20
2	143.0815	72.0444					A	2164.2357	1082.6215	2147.2092	1074.1082	2146.2251	1073.6162	19
3	230.1135	115.5604			212.1030	106.5551	S	2093.1986	1047.1029	2076.1721	1038.5897	2075.1880	1038.0977	18
4	317.1456	159.0764			299.1350	150.0711	S	2006.1666	1003.5869	1989.1400	995.0736	1988.1560	994.5816	17
5	416.2140	208.6106			398.2034	199.6053	V	1919.1345	960.0709	1902.1080	951.5576	1901.1240	951.0656	16
6	513.2667	257.1370			495.2562	248.1317	P	1820.0661	910.5367	1803.0396	902.0234	1802.0556	901.5314	15
7	627.3097	314.1585	610.2831	305.6452	609.2991	305.1532	N	1723.0134	862.0103	1705.9688	853.4970	1705.0028	853.0050	14
8	740.3937	370.7005	723.3672	362.1872	722.3832	361.6952	L	1608.9704	804.3889	1591.9439	796.4756	1590.9598	795.9836	13
9	942.5527	471.7800	925.5262	463.2667	924.5422	462.7747	K	1495.8864	748.4468	1478.8598	739.9336	1477.8758	739.4415	12
10	1126.6739	563.8406	1109.6474	555.3273	1108.6634	554.8353	K	1293.7374	647.3673	1276.7008	638.8546	1275.7168	638.3620	11
11	1227.7216	614.3644	1210.6951	605.8512	1209.7110	605.3592	T	1109.6062	555.3067	1092.5796	546.7935	1091.5956	546.3014	10
12	1341.7645	671.3859	1324.7380	662.8726	1323.7540	662.3808	N	1008.5585	504.7829	991.5320	496.2696			9
13	1412.8016	706.9045	1395.7751	698.3912	1394.7911	697.8992	A	894.5156	447.7614	877.4890	439.2482			8
14	1540.8602	770.9337	1523.8337	762.4205	1522.8497	761.9285	Q	823.4785	412.2429	806.4519	403.7296			7
15	1611.8973	806.4523	1594.8708	797.9390	1593.8868	797.4470	A	695.4199	348.2136	678.3933	339.7003			6
16	1682.9344	841.9709	1665.9079	833.4576	1664.9239	832.9656	A	624.3828	312.6950	607.3562	304.1817			5
17	1779.9872	890.4972	1762.9607	881.9840	1761.9766	881.4920	P	553.9457	277.1765	536.3191	268.6632			4
18	1964.1084	982.5578	1947.0818	974.0446	1946.0978	973.5525	K	456.2929	228.6501	439.2663	220.1368			3
19	2061.1612	1031.0842	2044.1346	1022.5709	2043.1506	1022.0789	P	272.1717	136.5895	255.1452	128.0762			2
20							R	175.1190	88.0631	158.0924	79.5498			1

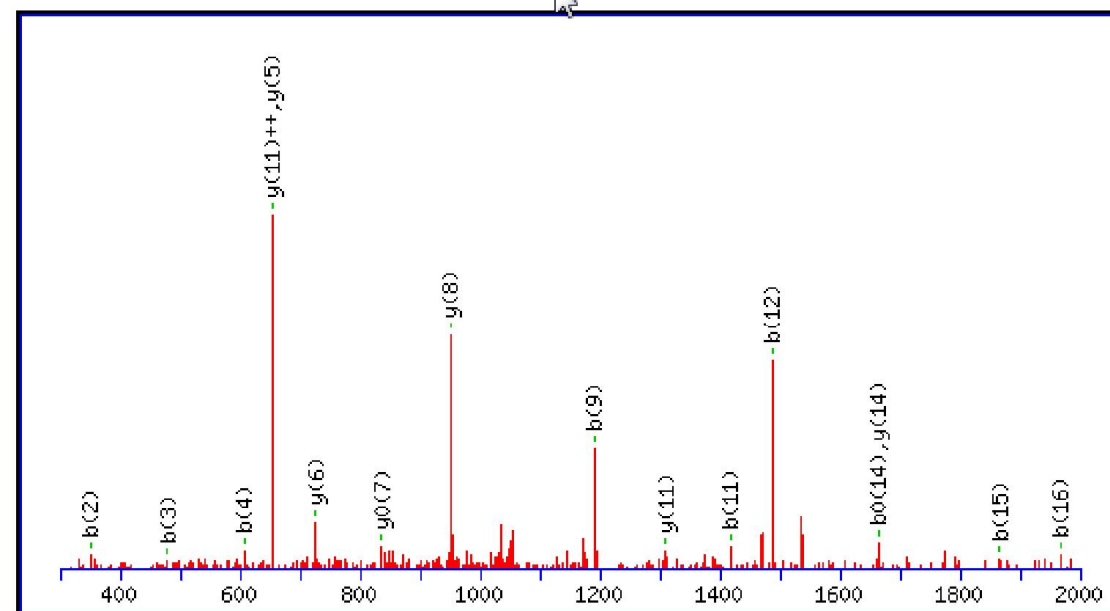
Found in **Q8NHM5**, Lysine-specific demethylase 2B OS=Homo sapiens GN=KDM2B PE=1 SV=1

Match to Query 15626: 2140.088968 from(1071.051760,2+) intensity(60884.8594)

Title: File386 Spectrum11418 scans: 12758

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr14-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 2140.0961**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues only)**Variable modifications:****K2** : Propionyl-(13CD3)Methyl (K)**K15** : Propionyl (K)**Ions Score:** 61 **Expect:** 0.00051**Matches** : 16/182 fragment ions using 17 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	148.0757	74.5415					F							17
2	350.2347	175.6210	333.2082	167.1077			K	1994.0349	997.5211	1977.0084	989.0078	1976.0244	988.5158	16
3	478.2933	239.6503	461.2667	231.1370			Q	1791.3759	896.4416	1774.8494	887.9283	1773.8654	887.4363	15
4	607.3359	304.1716	590.3093	295.6583	589.3258	295.1663	E	1663.8174	832.4123	1646.7908	823.8990	1645.8068	823.4070	14
5	704.3886	352.6980	687.3621	344.1847	686.3781	343.6927	P	1534.7748	767.3910	1517.7482	759.3777	1516.7642	758.8857	13
6	833.4312	417.2193	816.4047	408.7060	815.4207	408.2140	E	1437.7220	719.3646	1420.6955	710.8514	1419.7114	710.3594	12
7	948.4582	474.7327	931.4316	466.2195	930.4476	465.7274	D	1308.6794	654.8433	1291.6529	646.3301	1290.6688	645.8381	11
8	1077.5008	539.2540	1060.4742	530.7407	1059.4902	530.2487	E	1193.6525	597.3299	1176.6259	588.3166	1175.6419	588.3246	10
9	1190.5848	595.7961	1173.5583	587.2828	1172.5743	586.7908	L	1064.6099	532.8086	1047.5833	524.2963	1046.5993	523.8033	9
10	1287.6376	644.3224	1270.6110	635.8092	1269.6270	635.3172	P	951.5258	476.2665	934.4939	467.7533	933.5152	467.2613	8
11	1416.6502	708.8437	1399.6536	700.3305	1398.6696	699.8384	E	890.4730	427.7402	837.4465	419.2269	836.4625	418.7349	7
12	1487.7173	744.3623	1470.6908	735.8490	1469.7067	735.3570	A	725.4305	363.2189	708.4039	354.7056	707.4199	354.2136	6
13	1584.7701	792.8887	1567.7435	784.3754	1566.7595	783.8834	P	654.3933	327.7003	637.3668	319.1870	636.3828	318.6950	5
14	1681.8228	841.4151	1664.7963	832.9018	1663.8123	832.4098	P	557.3406	279.1739	540.3140	270.8607	539.3300	270.1686	4
15	1865.9440	933.4756	1848.9175	924.9624	1847.9354	924.4704	K	460.2878	230.6475	443.2613	222.1343	442.2772	221.6423	3
16	1966.9917	983.9995	1949.9651	975.4862	1948.9811	974.9942	T	276.1666	138.5870	259.1401	130.0737	258.1561	129.5817	2
17							R	175.1190	88.0631	158.0924	79.5499			1

MS/MS Fragmentation of **VTDLKAALRQ**

Found in **E7EQT4**, Apoptotic chromatin condensation inducer in the nucleus OS=Homo sapiens GN=ACIN1 PE=2 SV=2

Match to Query 5270: 1316.756568 from(659.385560, 2+) intensity(124479.6797)

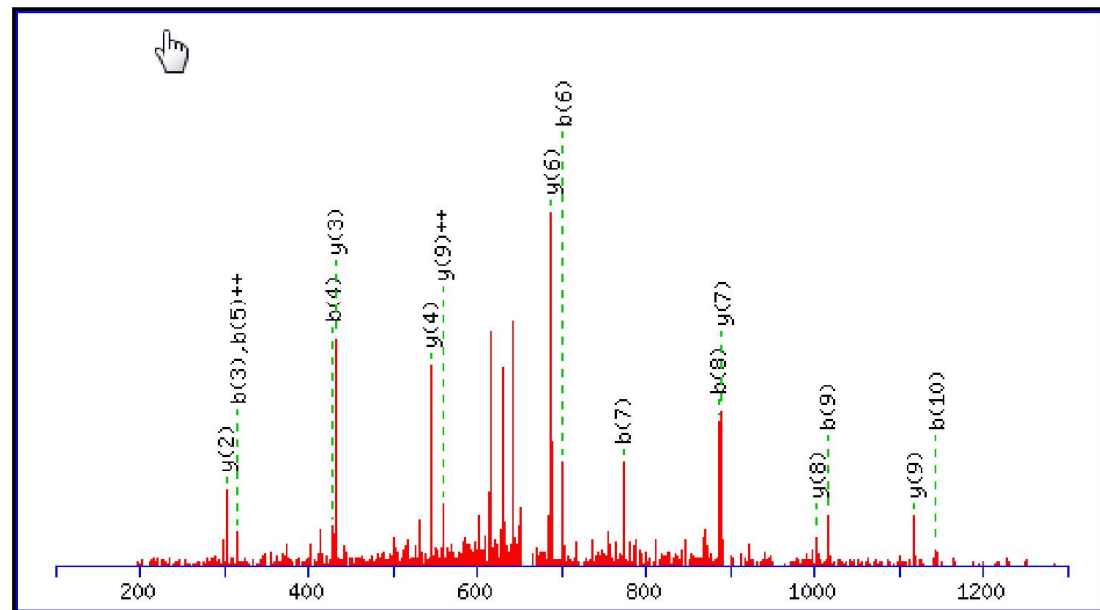
Title: File388 Spectrum13891 scans: 15609

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1316.7572

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

Variable modifications:

K5 : Propionyl-(13CD3)Methyl (K)

Ions Score: 61 Expect: 0.00035

Matches : 16/106 fragment ions using 22 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁺⁺	#
1	100.0787	50.5418					Y							11
2	201.1234	101.0653			183.1128	92.0600	T	1218.6961	609.3517	1201.6696	601.3384	1200.6855	600.8464	10
3	316.1505	158.5788			298.1397	149.5735	D	1117.6484	559.3279	1100.6219	550.8146	1099.6379	550.3226	9
4	429.2344	215.1208			411.2238	206.1155	L	1002.6215	501.8144	985.5949	493.3011	984.6109	492.8091	8
5	631.3934	316.2003	614.3668	307.6871	613.3828	307.1951	K	889.5374	445.2724	872.5109	436.7591	871.5269	436.2671	7
6	702.4305	351.7189	685.4040	343.2056	684.4199	342.7136	A	687.3784	344.1928	670.3519	335.6796	669.3678	335.1876	6
7	773.4676	387.2374	756.4411	378.7242	755.4571	378.2322	A	616.3413	308.6743	599.3148	300.1610	598.3307	299.6690	5
8	886.5517	443.7796	869.5251	435.2682	868.5411	434.7742	L	545.3042	273.1557	528.2776	264.6425	527.2936	264.1504	4
9	1015.5943	508.3008	998.5677	499.7875	997.5837	499.2955	E	432.2201	216.6137	415.1936	208.1004	414.2096	207.6084	3
10	1143.6529	572.3301	1126.6263	563.8168	1125.6423	563.3248	Q	303.1775	152.0924	286.1510	143.5791			2
11							R	175.1190	88.0631	158.0924	79.5498			1

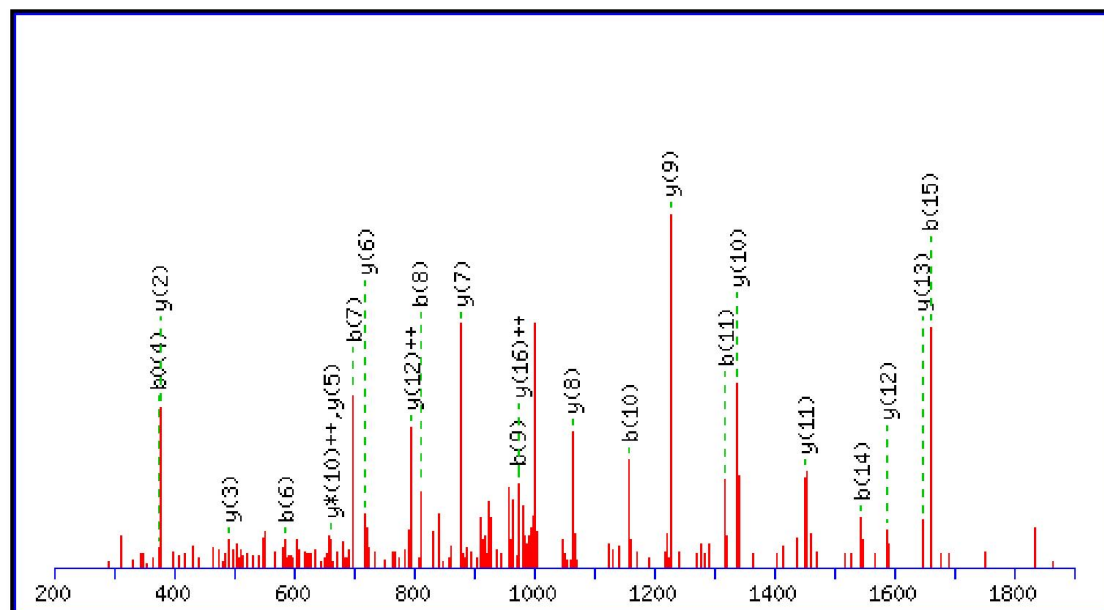
Found in **Q5VTE0**, Putative elongation factor 1-alpha-like 3 OS=Homo sapiens GN=EEF1A1P5 PE=5 SV=1

Match to query 13321: 2036.063948 from(1019.039250,2+) intensity(15974.4160)

Title: File422 Spectrum9491 scans: 10993

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr13-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc)**: 2036.0634

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

Variable modifications:

K10 : Propionyl (K)**K16** : Propionyl-(13CD3)Methyl (K)

Ions Score: 60 Expect: 0.00074

Matches : 23/170 fragment ions using 45 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							1
2	139.0370	95.0471			171.0764	86.0418	T	1960.0386	975.5229	1933.0120	967.0097	1932.0230	966.5177	16
3	290.1347	145.5710			272.1241	136.5657	T	1848.9909	924.9991	1831.9644	916.4853	1830.9804	915.9938	15
4	391.1823	196.0948			373.1718	187.0895	T	1747.9432	874.4753	1730.9167	865.9620	1729.9327	865.4700	14
5	448.2038	224.6055			430.1932	215.6003	G	1646.0956	823.9514	1629.8690	815.4381	1628.8850	814.9461	13
6	585.2627	293.1350			567.2522	284.1297	H	1589.8741	795.4407	1572.8475	786.9274	1571.8635	786.4354	12
7	698.3468	349.6770			680.3362	340.6717	L	1452.0152	726.9112	1435.7886	718.3980	1434.8046	717.9069	11
8	811.4308	406.2191			793.4203	397.2138	I	1339.7311	670.3692	1322.7046	661.8559	1321.7206	661.3639	10
9	974.4942	487.7507			956.4836	478.7454	Y	1226.6471	613.8272	1209.6205	605.3139	1208.6365	604.8219	9
10	1158.6154	579.8113	1141.5888	571.2980	1140.6048	570.8060	K	1063.5837	532.2955	1046.5572	523.7822	1045.5732	523.2902	8
11	1318.6460	659.8266	1301.6195	651.3134	1300.6354	650.8214	C	879.4635	440.2349	862.4360	431.7218	861.4520	431.2298	7
12	1375.6675	688.3374	1358.6409	679.8241	1357.6569	679.3321	G	719.4319	360.2196	702.4054	351.7063	701.4213	351.2143	6
13	1432.6889	716.8481	1415.6624	708.3348	1414.6784	707.8428	G	662.4104	331.7089	645.3839	323.1956	644.3999	322.7036	5
14	1545.7730	773.3901	1528.7464	764.8769	1527.7624	764.3849	I	605.3890	303.1981	588.3624	294.6848	587.3784	294.1928	4
15	1660.7999	830.9036	1643.7734	822.3903	1642.7894	821.8983	D	492.3049	246.6561	475.2784	238.1428	474.2943	237.6508	3
16	1862.9589	931.8631	1845.9324	923.4698	1844.9484	922.9778	K	377.3780	189.1426	360.2514	180.6293			2
17							R	175.1190	88.0631	158.0924	79.5498			

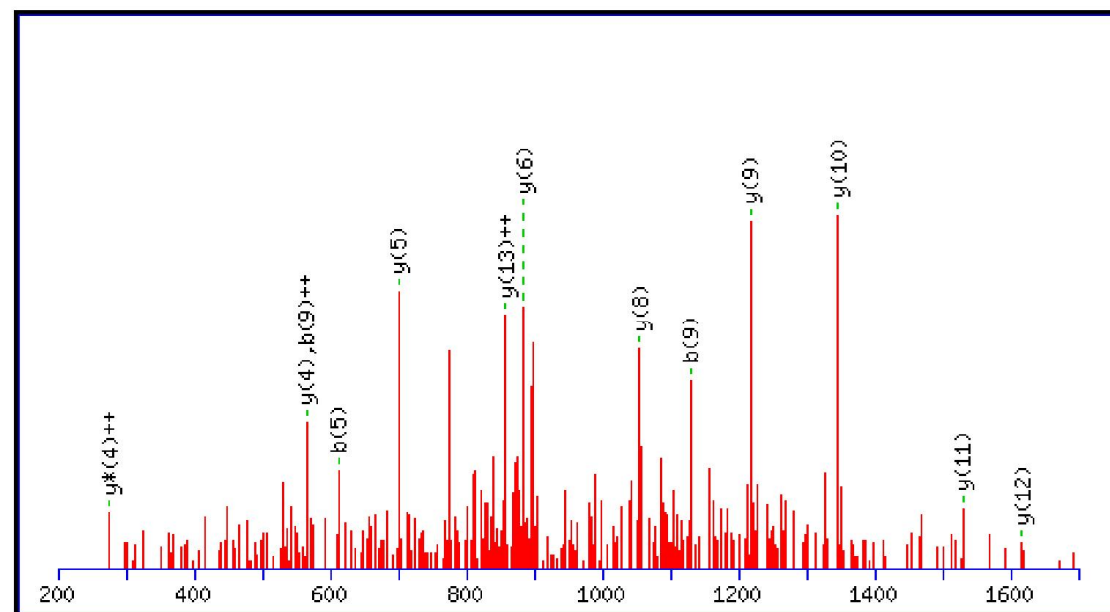
Found in **F8VR77**, Proliferation-associated protein 2G4 OS=Homo sapiens GN=PA2G4 PE=2 SV=1

Match to Query 11015: 1827.995088 from(915.004820, 2+) intensity(15173.9170)

Title: File422 Spectrum11833 scans: 13491

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr13-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc): 1827.9946**

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

Variable modifications:

K4 : Propionyl (K)**K9** : Propionyl (K)**M10** : Label:13C(1)2H(3) (M)**K11** : Propionyl-(13CD3)Methyl (K)

Ions Score: 58 Expect: 0.00091

Matches : 13/148 fragment ions using 15 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	116.0342	58.5207			98.0237	49.5155	D							14
2	213.0870	107.0471			195.0764	98.0418	P	1713.9749	857.4911	1696.9484	848.9778	1695.9644	848.4858	13
3	300.1190	150.5631			282.1084	141.5579	S	1616.9222	808.9647	1599.8956	800.4514	1598.9116	799.9594	12
4	484.2402	242.6237	467.2136	234.1105	466.2296	233.6184	K	1529.8901	765.4487	1512.8636	756.9354	1511.8796	756.4434	11
5	612.2988	306.6530	595.2722	298.1397	594.2882	297.6477	Q	1345.7690	673.3881	1328.7424	664.8748	1327.7584	664.3928	10
6	775.3621	388.1847	758.3385	379.6714	757.3515	379.1794	Y	1217.7104	609.3888	1200.6838	600.8456	1199.6998	600.3536	9
7	832.3836	416.6954	815.3570	408.1821	814.3730	407.8901	G	1054.6470	527.8272	1037.6205	519.3189	1036.6365	518.8219	8
8	945.4676	473.2375	928.4411	464.7242	927.4571	464.2322	L	997.6256	499.3164	980.5990	490.8032	979.6150	490.3111	7
9	1129.5888	565.2980	1112.5623	556.7848	1111.5782	556.2928	K	884.5415	442.7744	867.5150	434.2611	866.5310	433.7691	6
10	1284.6515	632.8294	1247.6249	624.3161	1246.6409	623.3241	I	700.4203	350.7188	683.3938	342.2005	682.4098	341.7085	5
11	1466.8105	733.9089	1449.7839	725.3956	1448.7999	724.9036	K	565.3577	283.1825	548.3311	274.6692	547.3471	274.1772	4
12	1567.8582	794.4327	1550.8316	775.9194	1549.8476	775.4274	T	363.1987	182.1030	346.1721	173.5897	345.1881	173.0977	3
13	1654.8902	827.9487	1637.8636	819.4355	1636.8796	818.9435	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
14							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **GWLKSNVSDAVAQSTR**

Found in **P60174-1**, Isoform 2 of Triosephosphate isomerase OS=Homo sapiens GN=TPI1

Match to Query 11677: 1791.937108 from(896.975830,2+) intensity(24611.7207)

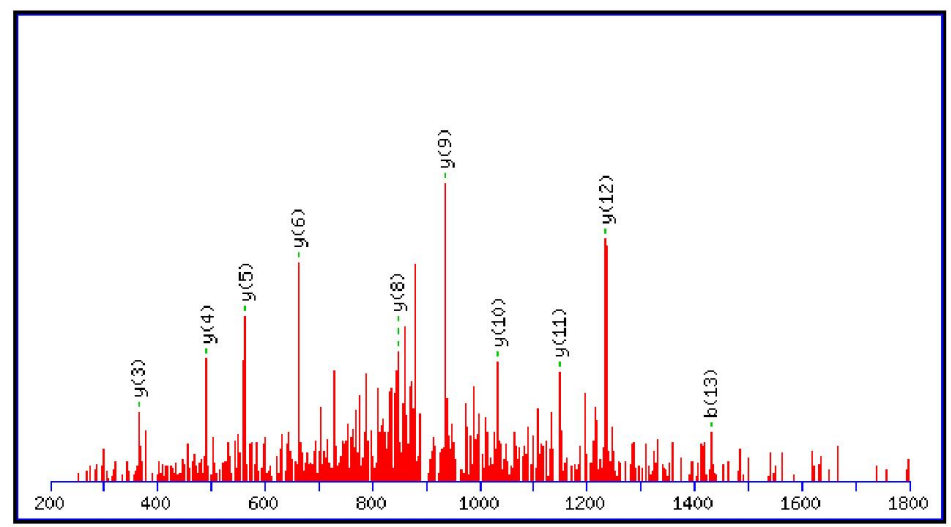
Title: File388 Spectrum11845 scans: 13426

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1791.9388

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

Variable modifications:

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 58 **Expect:** 0.00092

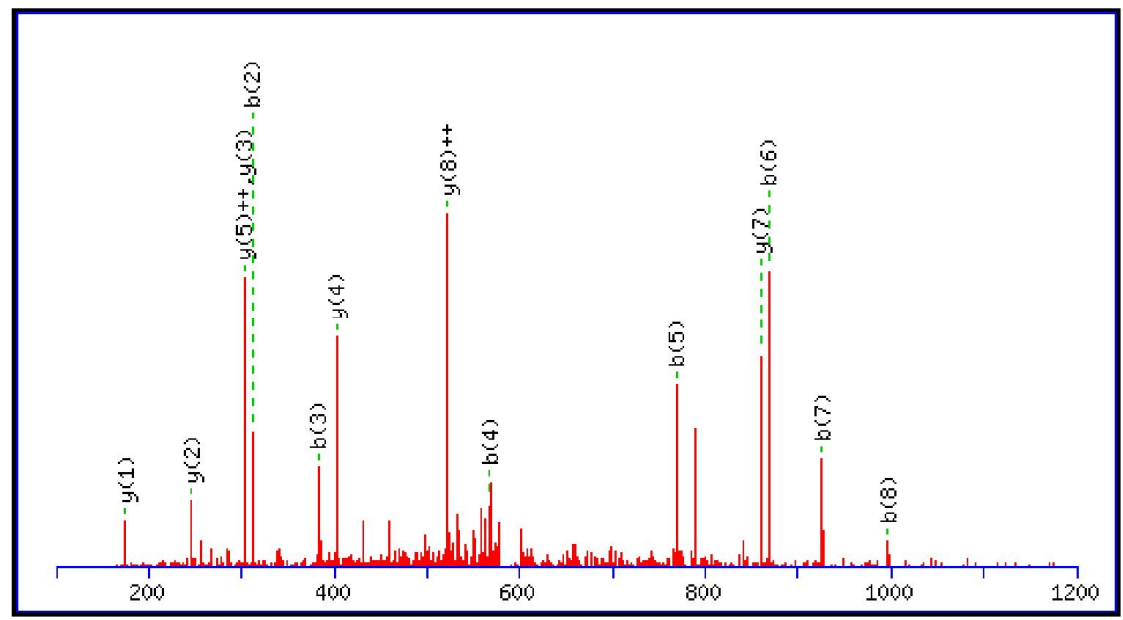
Matches : 10/164 fragment ions using 16 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0237	29.5180					G							16
2	244.1081	122.5577					W	1735.9246	868.4659	1718.8981	859.9527	1717.9140	859.4607	15
3	357.1921	179.0997					L	1549.8453	775.4263	1532.8187	766.9130	1531.8347	766.4210	14
4	559.3511	280.1792	542.3246	271.6659			K	1436.7612	718.3843	1419.7347	710.3710	1418.7507	709.8790	13
5	646.3832	323.6952	629.3566	315.1819	628.3726	314.6899	S	1234.6022	617.8047	1217.5757	609.2915	1216.5917	608.7995	12
7	760.4261	380.7167	743.3995	372.2034	742.4155	371.7114	N	1147.5702	574.2887	1130.5436	565.7755	1129.5596	565.2835	11
7	859.4945	430.2509	842.4679	421.7376	841.4839	421.2456	V	1033.5273	517.2673	1016.5007	508.7540	1015.5167	508.2620	10
8	946.5265	473.7669	929.5000	465.2536	928.5160	464.7616	S	934.4589	467.7331	917.4323	459.2198	916.4483	458.7278	9
9	1061.5535	531.2804	1044.5269	522.7671	1043.5429	522.2751	D	847.4268	424.2170	830.4003	415.7038	829.4163	415.2118	8
10	1132.5906	566.7989	1115.5640	558.2857	1114.5800	557.7936	A	732.3999	366.7036	715.3733	358.1903	714.3893	357.6983	7
11	1231.6590	616.3331	1214.6324	607.8199	1213.6484	607.3279	V	661.3628	331.1850	644.3362	322.6717	643.3522	322.1797	6
12	1302.6961	651.8517	1285.6686	643.3384	1284.6855	642.8464	A	562.2944	281.6508	545.2678	273.1375	544.2838	272.6455	5
13	1430.7547	715.8810	1413.7281	707.3677	1412.7441	706.8757	Q	491.2572	246.1323	474.2307	237.6190	473.2467	237.1270	4
14	1517.7867	759.3970	1500.7602	750.8837	1499.7762	750.3917	S	363.1987	182.1030	346.1721	173.5897	345.1831	173.0977	3
15	1618.8344	809.9208	1601.8078	801.4076	1600.8238	800.9156	T	276.1666	138.5870	259.1401	130.0737	258.1561	129.5817	2
16							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **AKAKKVGAR**
 Found in **E9PFK5**, Nucleolar protein 14 OS=Homo sapiens GN=NOI14 PE=2 SV=1

Match to Query 3442: 1169.739468 from(585.877010, 2+) intensity(85083.2891)
 Title: File440 Spectrum11741 scans: 13209
 Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr11-ZW.mgf

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



Monoisotopic mass of neutral peptide Mr(calc): 1169.7404
Fixed modifications: Carbamidomethyl (C) (apply to specified residues only)
Variable modifications:
N-term : Propionyl (protein N-term) (Protein N-term)
K2 : Propionyl (K)
K4 : Propionyl (K)
K5 : Propionyl-(13CD3)Methyl (K)
Ions Score: 58 **Expect:** 0.00022
Matches : 14/62 fragment ions using 20 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺ *	Seq.	y	y ⁺⁺	y*	y ⁺⁺ *	#
1	128.0706	64.5389			A					9
2	312.1918	156.5995	295.1652	148.0863	K	1043.6844	522.3459	1026.6579	513.8326	8
3	383.2289	192.1181	366.2023	183.6048	A	859.5632	430.2853	842.5367	421.7720	7
4	567.3501	284.1787	550.3235	275.6654	K	788.5261	394.7667	771.4996	386.2534	6
5	769.5091	385.2582	752.4825	376.7449	K	604.4050	302.7061	587.3784	294.1928	5
6	868.5775	434.7924	851.5510	426.2791	V	402.2459	201.6266	385.2194	193.1133	4
7	925.5990	463.3031	908.5724	454.7898	G	303.1775	152.0924	286.1510	143.5791	3
8	996.6361	498.8217	979.6095	490.3084	A	246.1561	123.5817	229.1295	115.0684	2
9					R	175.1190	88.0631	158.0924	79.5498	1

MS/MS Fragmentation of **FKETNDKAE**LDK

Found in **Q13123**, Protein Red OS=Homo sapiens GN=IK PE=1 SV=3

Match to Query 9195: 1594.812348 from(798.413450, 2+) intensity(10038.9229)

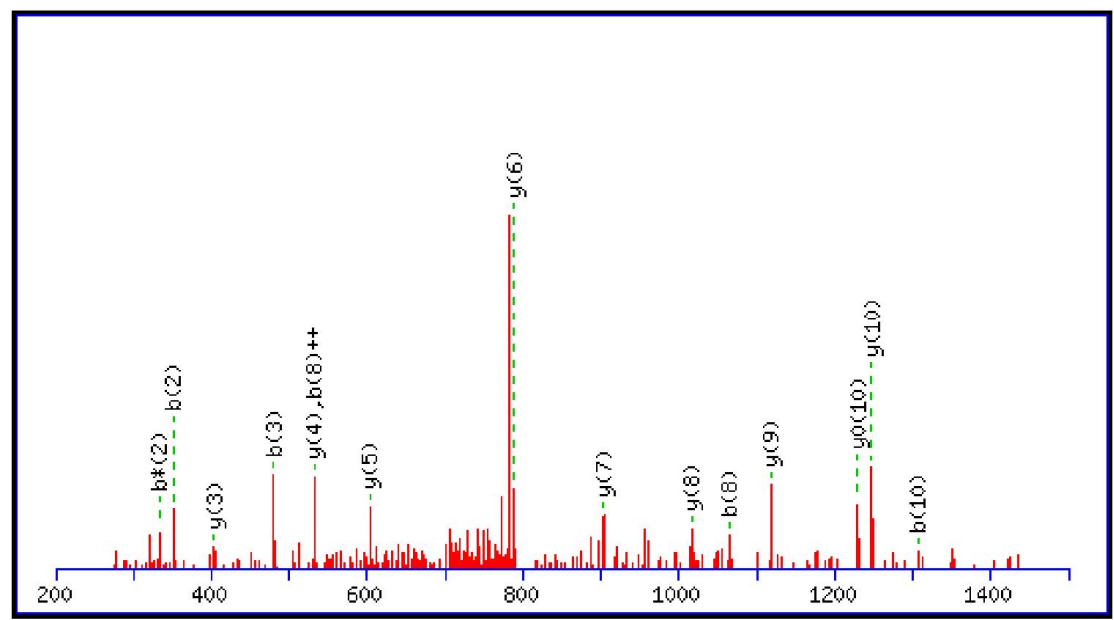
Title: File443 Spectrum9068 scans: 10462

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-6-SW620-Kpropio-methyl-IP-Fr15-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1594.8111

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K7 : Propionyl (K)

Ions Score: 52 **Expect:** 0.0026

Matches : 15/124 fragment ions using 24 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	148.0757	74.5415					F							12
2	350.2347	175.6210	333.2082	167.1077			K	1448.7500	724.8786	1431.7234	716.3654	1430.7394	715.8734	11
3	479.2773	240.1423	462.2507	231.6290	461.2667	231.1370	E	1246.5910	623.7991	1229.5644	615.2859	1238.5804	614.7938	10
4	580.3250	290.6661	563.2984	282.1529	562.3144	281.6608	T	1117.5484	559.2778	1100.5218	550.7646	1099.5378	550.2726	9
5	694.3679	347.6876	677.3414	339.1743	676.3573	338.6823	N	1016.5007	508.7540	999.4742	500.2407	998.4901	499.7487	8
6	809.3948	405.2011	792.3683	396.6878	791.3843	396.1958	D	902.4578	451.7325	885.4312	443.2193	884.4472	442.7272	7
7	993.5160	497.2616	976.4895	488.7484	975.5055	488.2564	K	787.4308	394.2191	770.4043	385.7058	769.4203	385.2138	6
8	1064.5531	532.7802	1047.5266	524.2669	1046.5426	523.7749	A	603.3097	302.1585	586.2831	293.6452	585.2991	293.1532	5
9	1193.5957	597.3015	1176.5692	588.7882	1175.5852	588.2962	E	532.2726	266.6399	515.2460	258.1263	514.2620	257.6346	4
10	1306.6798	653.2435	1289.6532	645.3303	1288.6692	644.8383	L	403.2300	202.1186	386.2034	193.6053	385.2194	193.1133	3
11	1421.7067	711.3570	1404.6802	702.8437	1403.6962	702.3517	D	290.1959	145.5766	273.1193	137.0633	272.1353	136.5713	2
12							R	175.1190	88.0631	158.0924	79.5498			1

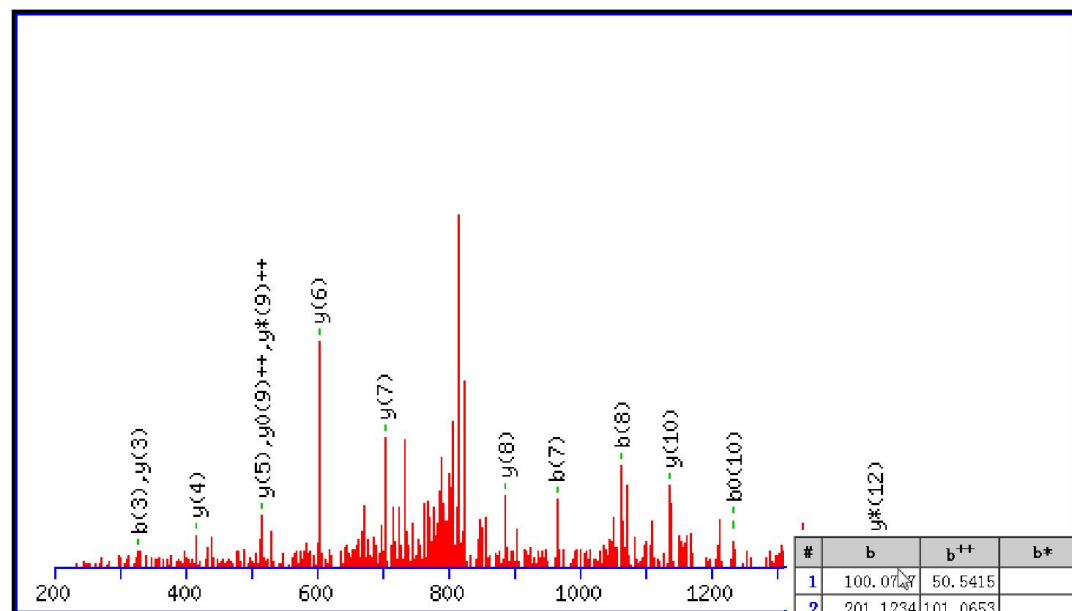
MS/MS Fragmentation of **VTQKSYKVSTSGPR**Found in **P05787**, Keratin, type II cytoskeletal 8 OS=Homo sapiens GN=KRT8 PE=1 SV=7

Match to Query 10634: 1666.915508 from(834.465030, 2+) intensity(25637.6309)

Title: File652 Spectrum7046 scans: 8207

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr10-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1666****Fixed modifications:** Carbamidomethyl (C) (apply to spec)**Variable modifications:****K4** : Propionyl-(13CD3)Methyl (K)**K7** : Propionyl (K)**Ions Score:** 52 **Expect:** 0.0035**Matches** : 14/144 fragment ions using 15 most intense peaks

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	100.0737	50.5415					V							14
2	201.1234	101.0653			183.1128	92.0600	T	1568.8551	784.9312	1551.8286	776.4179	1550.8446	775.9259	13
3	329.1819	165.0946	312.1554	156.5813	311.1714	156.0893	Q	1467.8075	734.4074	1450.7809	725.8941	1449.7969	725.4021	12
4	531.3410	266.1741	514.3144	257.6608	513.3304	257.1688	K	1339.7489	670.3781	1322.7223	661.8648	1321.7383	661.3728	11
5	618.3730	309.6901	601.3464	301.1769	600.3624	300.6848	S	1137.5899	569.2986	1120.5633	560.7853	1119.5793	560.2933	10
6	781.4363	391.2218	764.4098	382.7085	763.4258	382.2165	Y	1050.5578	525.7826	1033.5313	517.2693	1032.5473	516.7773	9
7	965.5575	483.2824	948.5309	474.7691	947.5469	474.2771	K	887.4945	444.2509	870.4680	435.7376	869.4839	435.2456	8
8	1064.6259	532.8166	1047.5994	524.3033	1046.6153	523.8113	V	703.3733	352.1903	686.3468	343.6770	685.3628	343.1850	7
9	1151.6579	576.3326	1134.6314	567.8193	1133.6474	567.3273	S	604.3049	302.6561	587.2784	294.1428	586.2944	293.6508	6
10	1252.7056	626.3564	1235.6791	618.3432	1234.6951	617.8512	T	517.2729	259.1401	500.2463	250.6268	499.2623	250.1348	5
11	1339.7376	670.3725	1322.7111	661.8592	1321.7271	661.3672	S	416.2252	208.6162	399.1987	200.1030	398.2146	199.6110	4
12	1396.7591	698.8832	1379.7326	690.3699	1378.7485	689.8779	G	329.1932	165.1002	312.1666	156.5870			3
13	1493.8119	747.4096	1476.7853	738.8963	1475.8013	738.4043	P	272.1717	136.5895	255.1452	128.0762			2
14							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **EHLEKKGQVR**

Found in **F8VZY9**, Keratin, type I cytoskeletal 18 OS=Homo sapiens GN=KRT18 PE=2 SV=1

Match to Query 6782: 1449.824928 from(725.919740, 2+) intensity(66155.8906)

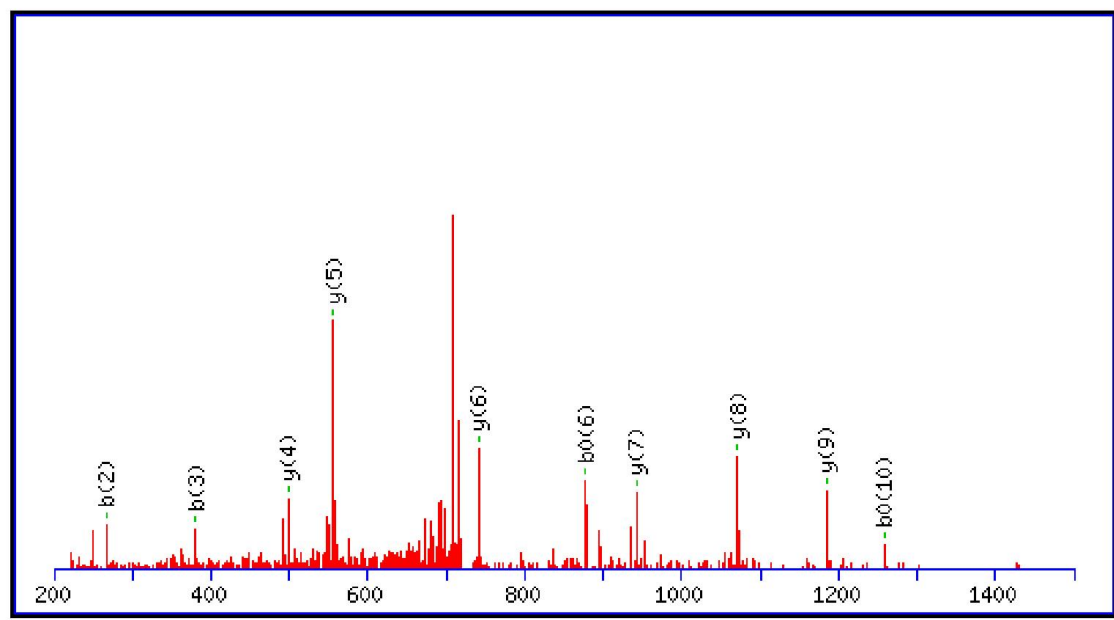
Title: File388 Spectrum6492 scans: 7687

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1449.8212

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

Variable modifications:

K5 : Propionyl-(13CD3)Methyl (K)

K6 : Propionyl (K)

Ions Score: 52 **Expect:** 0.0028

Matches : 10/98 fragment ions using 12 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	K							11
2	267.1088	134.0580			249.0982	125.0527	H	1321.7859	661.3966	1304.7594	652.8833	1303.7754	652.3913	10
3	380.1928	190.6001			362.1823	181.5948	L	1184.7270	592.3871	1167.7005	584.3539	1166.7165	583.9619	9
4	509.2354	255.1214			491.2249	246.1161	K	1071.6430	536.3251	1054.6164	527.8118	1053.6324	527.3188	8
5	711.3945	356.2009	694.3679	347.6876	693.3839	347.1956	K	942.6004	471.8038	925.5738	463.2905			7
6	895.5156	448.2615	878.4891	439.7482	877.5051	439.2562	K	740.4413	370.7243	723.4148	362.2110			6
7	952.5371	476.7722	935.5105	468.2589	934.5265	467.7669	G	556.3202	278.6637	539.2936	270.1504			5
8	1049.5899	525.2986	1032.5633	516.7853	1031.5793	516.2933	P	499.2987	250.1530	482.2722	241.6397			4
9	1177.6484	589.3279	1160.6219	580.8146	1159.6379	580.3226	Q	402.2459	201.6266	385.2194	193.1133			3
10	1276.7168	638.3621	1259.6903	630.3488	1258.7063	629.8568	V	274.1874	137.5973	257.1608	129.0840			2
11							R	175.1190	88.0631	158.0924	79.5498			1

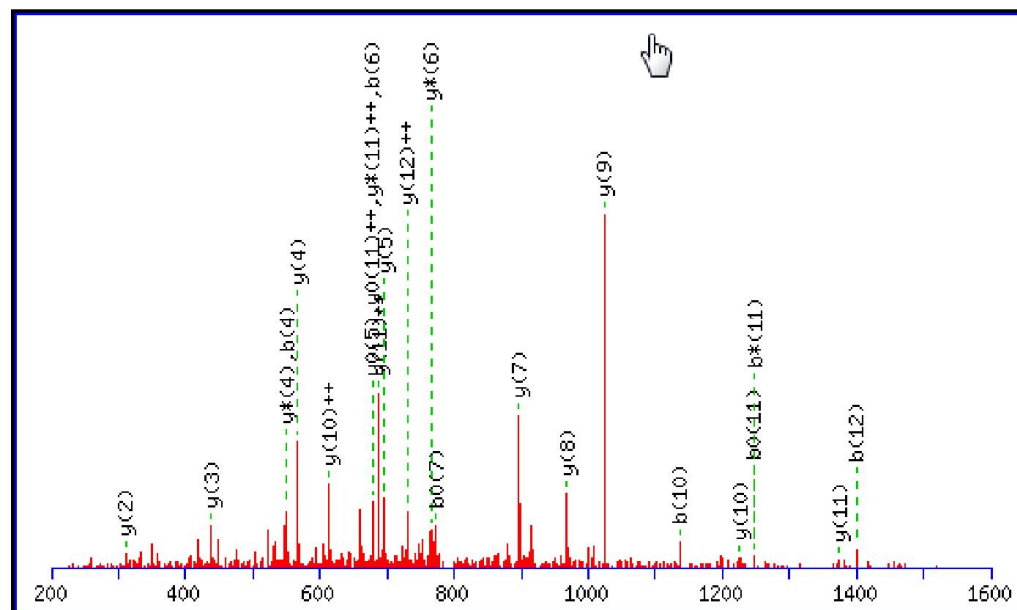
MS/MS Fragmentation of **ISFKGALSEEQMR**Found in **F8VQX1**, RasGAP-activating-like protein 1 OS=Homo sapiens GN=RASAL1 PE=2 SV=1

Match to Query 8201: 1572.835788 from(787.425170,2+) intensity(259861.9531)

Title: File388 Spectrum14427 scans: 16181

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1572.8363

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

Variable modifications:

K4 : Propionyl-(13C3)Methyl (K)

M12 : Label:13C(1)2H(3) (M)

Ions Score: 51 Expect: 0.0046

Matches : 24/130 fragment ions using 39 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					I							13
2	201.1234	101.0653			183.1128	92.0600	S	1460.7595	730.8834	1443.7330	722.3701	1442.7489	721.8781	12
3	348.1918	174.5995			330.1812	165.5942	F	1373.7275	687.3674	1356.7009	678.8541	1355.7169	678.5621	11
4	550.3508	275.6790	533.3242	267.1658	532.3402	266.6738	K	1226.6591	613.8332	1209.6325	605.3199	1208.6485	604.8279	10
5	607.3723	304.1898	590.3457	295.6765	589.3617	295.1845	G	1024.5001	512.7537	1007.4735	504.2404	1006.4895	503.7484	9
6	678.4094	339.7083	661.3828	331.1950	660.3988	330.7030	A	967.4786	484.2429	950.4520	475.7297	949.4680	475.2377	8
7	791.4934	396.2504	774.4669	387.7371	773.4829	387.2451	L	896.4415	448.7244	879.4149	440.2111	878.4309	439.7191	7
8	878.5255	439.7664	861.4989	431.2531	860.5149	430.7611	S	783.3574	392.1823	766.3309	383.6691	765.3468	383.1771	6
9	1007.5681	504.2877	990.5415	495.7744	989.5575	495.2824	E	696.3254	348.6663	679.2988	340.1531	678.3148	339.6610	5
10	1136.6107	568.8090	1119.5841	560.2957	1118.6001	559.3037	E	567.2828	284.1450	550.2562	275.6318	549.2722	275.1398	4
11	1264.6692	632.8383	1247.6427	624.3250	1246.6587	623.8330	Q	438.3403	219.6237	421.2137	211.1105			3
12	1399.7319	700.3696	1382.7054	691.8563	1381.7213	691.3643	K	310.1816	155.5944	293.1551	147.0812			2
13							R	175.1190	88.0631	158.0924	79.5498			1

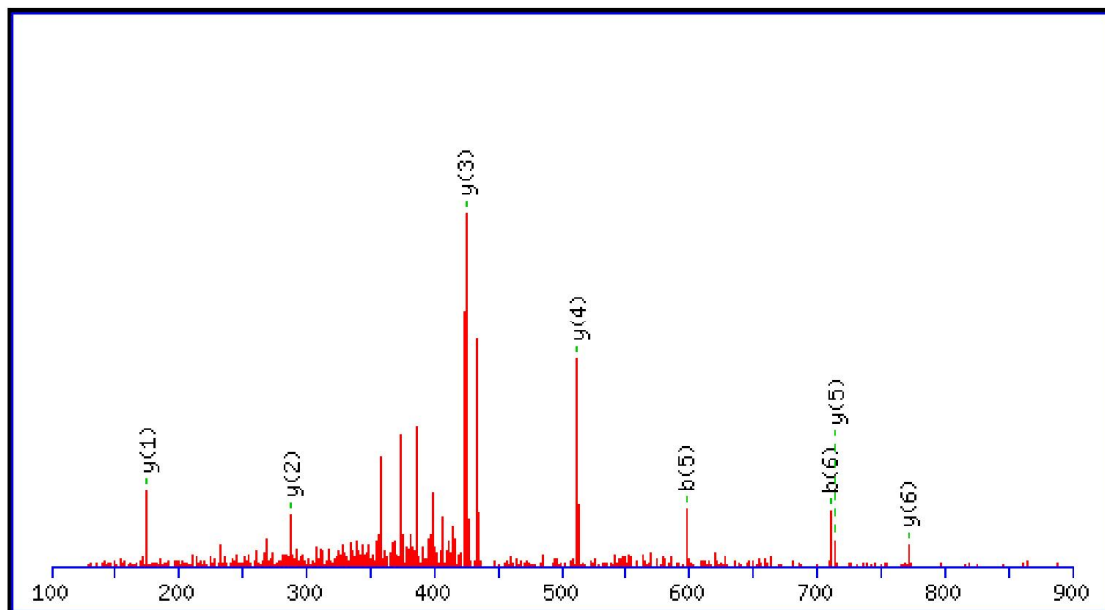
Found in **Q92499**, ATP-dependent RNA helicase DDX1 OS=Homo sapiens GN=DDX1 PE=1 SV=2

Match to Query 1229: 883.551368 from(442.782960,2+) intensity(23381.2656)

Title: File394 Spectrum4245 scans: 5060

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 883.5512**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K3** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 47 **Expect:** 0.0034**Matches** : 8/56 fragment ions using 16 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							7
2	171.1128	86.0600					G	771.4744	386.2409	754.4479	377.7276	753.4639	377.2356	6
3	373.2718	187.1395	356.2453	178.6263			K	714.4530	357.7301	697.4264	349.2168	696.4424	348.7248	5
4	460.3038	230.6558	443.2773	222.1423	442.2933	221.6503	S	512.2940	256.6506	495.2674	248.1373	494.2834	247.6453	4
5	597.3628	299.1850	580.3362	290.6717	579.3522	290.1797	H	425.2619	213.1346	408.2354	204.6213			3
6	710.4468	355.7270	693.4203	347.2138	692.4363	346.7218	I	288.2030	144.6051	271.1765	136.0919			2
7							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **QVLKQKHLDDCLR**

Found in **B5MC16**, Calmodulin-lysine N-methyltransferase OS=Homo sapiens GN=CAMKMT PE=2 SV=1

Match to Query 12314: 1781.972268 from(891.993410, 2+) intensity(25075.1875)

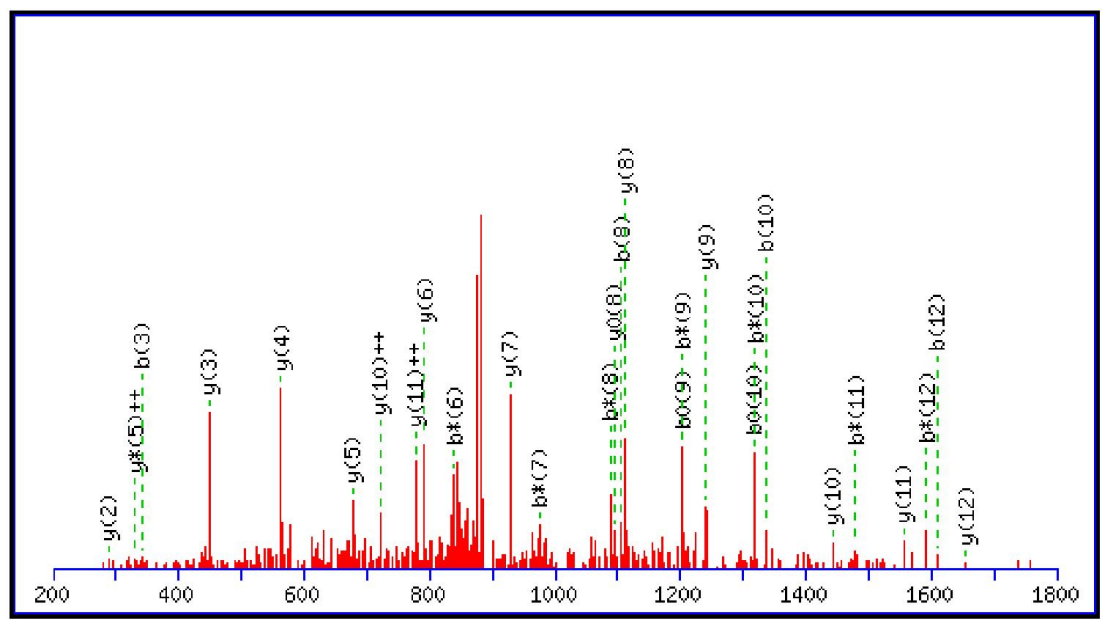
Title: File394 Spectrum11155 scans: 12533

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1781.9731

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

Variable modifications:

K4 : Propionyl-(13CD3)Methyl (K)

K6 : Propionyl (K)

Ions Score: 47 **Expect:** 0.011

Matches : 28/122 fragment ions using 72 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#	
1	129.0659	65.0366	112.0393	56.5233				Q						13	
2	228.1343	114.5708	211.1077	106.0575				V	1654.9218	827.9645	1637.8952	819.4513	1636.9112	818.9592	12
3	341.2183	171.1123	324.1918	162.5995				L	1555.8534	775.4303	1538.8268	769.9170	1537.8428	769.4250	11
4	543.3773	272.1923	526.3508	263.6790				K	1442.7693	721.8883	1425.7427	713.3750	1424.7587	712.8830	10
5	671.4359	336.2216	654.4094	327.7083				Q	1240.6103	620.8088	1223.5837	612.2955	1222.5997	611.8035	9
6	855.5571	428.2822	838.5306	419.7689				K	1112.5517	556.7795	1095.5252	548.2662	1094.5411	547.7742	8
7	992.6160	496.8116	975.5895	488.2984				H	928.4305	464.7189	911.4040	456.2056	910.4200	455.7136	7
8	1105.7001	553.3537	1088.6735	544.8404				L	791.3716	396.1894	774.3451	387.6762	773.3610	387.1842	6
9	1220.7270	610.8671	1203.7005	602.3539	1202.7165	601.8619		D	678.2876	339.6474	661.2610	331.1341	660.2770	330.6421	5
10	1335.7540	668.3806	1318.7274	659.8673	1317.7434	659.3753		D	563.2606	282.1339	546.2341	273.6207	545.2500	273.1287	4
11	1495.7846	748.3959	1478.7581	739.8827	1477.7740	739.3907		C	448.2337	224.6205	431.2071	216.1072			3
12	1608.8687	804.9380	1591.8421	796.4247	1590.8581	795.9327		L	288.2030	144.6051	271.1765	136.0919			2
13								R	175.1190	88.0631	158.0924	79.5498			1

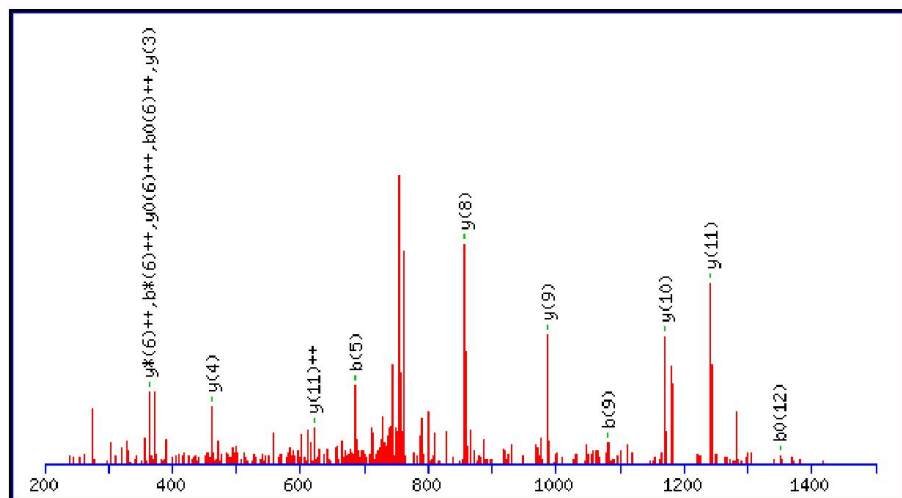
MS/MS Fragmentation of **KVAKEGGPKVTSR**Found in **Q15397**, Pumilio domain-containing protein KIAA0020 OS=Homo sapiens GN=KIAA0020 PE=1 SV=3

Match to Query 8103: 1541.904628 from(771.959590, 2+) intensity(8409.0791)

Title: File660 Spectrum5207 scans: 6344

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr3-ZW.mgf

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

Or, to DaLabel all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1541.9050**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**K4** : Propionyl (K)**K9** : Propionyl (K)**Ions Score:** 47 **Expect:** 0.0068**Matches** : 14/134 fragment ions using 12 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							13
2	302.2447	151.6210	285.2082	143.1077			V	1340.7532	670.8803	1323.7267	662.3670	1322.7427	661.8750	12
3	373.2718	187.1395	356.2453	178.6263			A	1241.6848	621.5461	1224.6583	612.8328	1223.6743	612.3408	11
4	557.3930	279.2001	540.3664	270.6869			K	1170.6477	585.8275	1153.6212	577.3142	1152.6371	576.8222	10
5	686.4356	343.7214	669.4090	335.2082	668.4250	334.7161	E	986.5265	493.7669	969.5000	485.2536	968.5160	484.7616	9
6	743.4571	372.2322	726.4305	363.7189	725.4465	363.2269	G	857.4839	429.2456	840.4574	420.7323	839.4734	420.2403	8
7	800.4785	400.7429	783.4520	392.2296	782.4680	391.7376	G	800.4625	400.7349	783.4359	392.2216	782.4519	391.7296	7
8	897.5313	449.2693	880.5047	440.7560	879.5207	440.2640	P	743.4410	372.2241	726.4145	363.7109	725.4305	363.2189	6
9	1081.6525	541.3299	1064.6259	532.8168	1063.6419	532.3246	K	646.3883	323.6978	629.3617	315.1845	628.3777	314.6925	5
10	1180.7209	590.3641	1163.6943	582.3508	1162.7103	581.8588	V	462.2671	231.6372	445.2405	223.1239	444.2565	222.6319	4
11	1281.7686	641.3879	1264.7420	632.8746	1263.7580	632.3826	T	363.1987	182.1030	346.1721	173.5897	345.1881	173.0977	3
12	1368.8006	684.9039	1351.7740	676.3907	1350.7900	675.8986	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
13							R	175.1190	88.0631	158.0924	79.5498			1

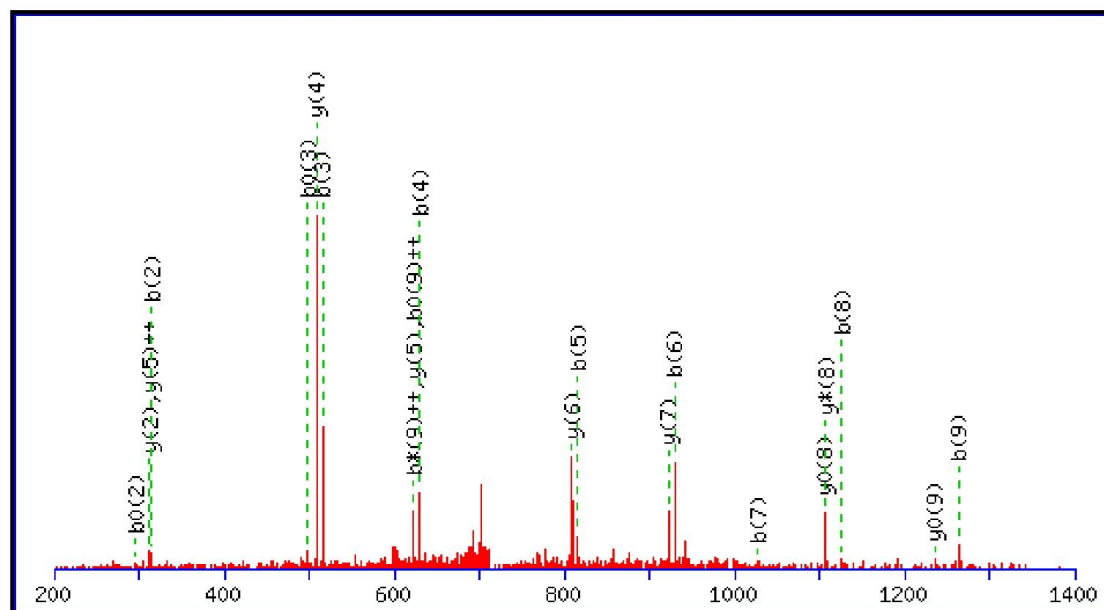
Found in **Q5VZU9**, Tripeptidyl-peptidase 2 OS=Homo sapiens GN=TPP2 PE=2 SV=1

Match to Query 6361: 1436.803928 from(719.409240, 2+) intensity(69501.9375)

Title: File419 Spectrum10494 scans: 12112

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-06-05-SW620-Kpropio-methyl-IP-Fr9-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1436.8049****Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl (K)**K3** : Propionyl-(13CD3)Methyl (K)**Ions Score: 47** **Expect: 0.011****Matches** : 21/98 fragment ions using 36 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							10
2	314.1710	157.5892	297.1445	149.0759	296.1605	148.5839	K	1253.6910	627.3491	1236.6644	618.8358	1235.6804	618.3438	9
3	516.3301	258.6627	499.3035	250.1554	498.3195	249.6634	K	1124.6484	562.8278	1107.6218	554.3146	1106.6378	553.8225	8
4	629.4141	315.2107	612.3876	306.6974	611.4036	306.2054	I	922.4894	461.7483	905.4628	453.2350	904.4788	452.7430	7
5	815.4934	408.2504	798.4669	399.7371	797.4829	399.2451	W	809.4053	405.2063	792.3787	396.6930	791.3947	396.2010	6
6	930.5204	465.7638	913.4938	457.2506	912.5098	456.7585	D	623.3260	312.1666	606.2994	303.6534	605.3154	303.1613	5
7	1027.5731	514.2902	1010.5466	505.7769	1009.5626	505.2849	P	508.2990	254.6532	491.2725	246.1399			4
8	1126.6416	563.8244	1109.6150	555.3111	1108.6310	554.8191	V	411.2463	206.1268	394.2197	197.6135			3
9	1263.7005	632.3539	1246.8739	623.8406	1245.6899	623.3486	H	312.1779	156.5926	295.1513	148.0793			2
10							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **SLVIVKKLNTR**

Found in **Q8N655**, Uncharacterized protein C10orf12 OS=Homo sapiens GN=C10orf12 PE=1 SV=1

Match to Query 6095: 1399.904768 from(700.959660, 2+) intensity(79978.1953)

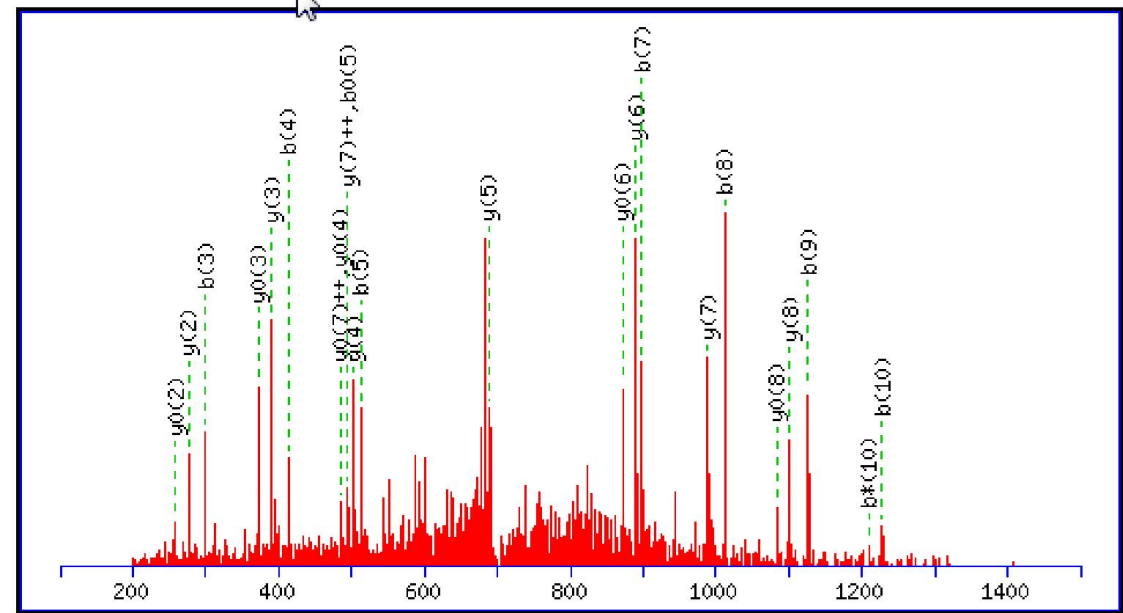
Title: File388 Spectrum15903 scans: 17797

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1399.9035

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

Variable modifications:

K6 : Propionyl-(13CD3)Methyl (K)

K7 : Propionyl (K)

Ions Score: 46 **Expect:** 0.0015

Matches : 23/108 fragment ions using 36 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b [*]	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							11
2	201.1234	101.0653			183.1128	92.0500	L	1313.8788	657.4430	1296.8522	648.9297	1295.8682	648.4377	10
3	300.1918	150.5996			282.1812	141.5942	Y	1200.7947	600.9010	1183.7682	592.3877	1182.7841	591.8967	9
4	413.2758	207.1416			395.2653	198.1363	I	1101.7263	551.3668	1084.6997	542.8535	1083.7157	542.3615	8
5	512.3443	256.6758			494.3337	247.6705	Y	988.6422	494.3248	971.6157	486.3115	970.6317	485.8195	7
6	714.5033	357.7553	697.4767	349.2420	696.4927	348.7500	K	889.5738	445.2905	872.5473	436.7773	871.5632	436.2853	6
7	898.6245	449.8159	881.5979	441.3026	880.6139	440.8106	K	687.4148	344.2110	670.3883	335.6978	669.4042	335.2068	5
8	1011.7085	506.3579	994.6820	497.8446	993.6979	497.3526	L	503.2936	252.1504	486.2671	243.6372	485.2831	243.1452	4
9	1125.7514	563.3794	1108.7249	554.8661	1107.7409	554.3741	N	390.2096	195.6084	373.1830	187.0951	372.1990	186.6031	3
10	1226.7991	613.9032	1209.7726	605.8899	1208.7886	604.8979	T	276.1666	138.5870	259.1401	130.0737	258.1661	129.5817	2
11							R	175.1190	88.0631	158.0924	79.5498			1

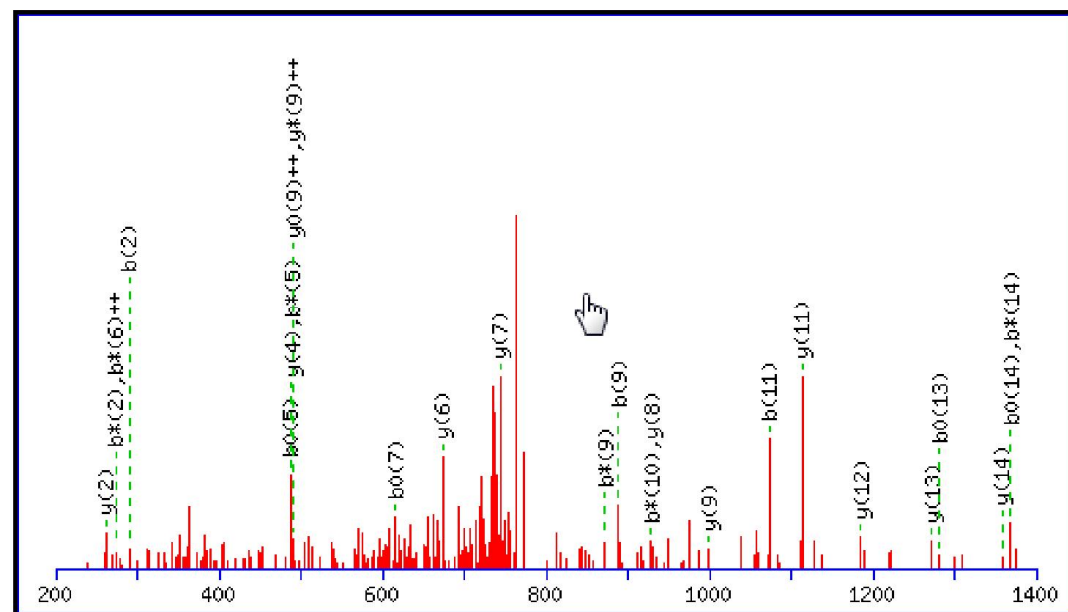
MS/MS Fragmentation of **KSSAGGAKAGQPESR**Found in **P17098**, Zinc finger protein 8 OS=Homo sapiens GN=ZNF8 PE=1 SV=2

Match to Query 8060: 1559.821988 from(780.918270,2+) intensity(6126.0859)

Title: File440 Spectrum3286 scans: 4144

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc): 1559.8176**

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)**K8** : Propionyl (K)

Ions Score: 45 Expect: 0.014

Matches : 25/164 fragment ions using 60 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							15
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	S	1358.6659	679.3366	1341.6393	671.3233	1340.6553	670.8313	14
3	377.2303	189.1188	360.2038	180.6055	359.2198	180.1135	S	1271.6339	636.3206	1254.6073	627.8073	1253.6233	627.3153	13
4	448.2675	224.6374	431.2409	216.1241	430.2569	215.6321	A	1184.6018	592.3046	1167.5753	584.2913	1166.5913	583.7993	12
5	505.2889	253.1481	488.2624	244.6348	487.2784	244.1428	G	1113.5647	557.2860	1096.5382	548.7727	1095.5541	548.2807	11
6	662.3104	331.6583	645.2838	323.1456	644.2998	322.6535	C	1056.5432	523.7753	1039.5167	520.2620	1038.5327	519.7700	10
7	633.3475	317.1774	616.3210	308.6641	615.3369	308.1721	A	999.5218	500.2645	982.4952	491.7513	981.5112	491.2592	9
8	817.4687	409.2380	800.4421	400.7247	799.4581	400.2327	K	928.4847	464.7460	911.4581	456.2327	910.4741	455.7407	8
9	888.5058	444.7565	871.4792	436.2433	870.4952	435.7513	A	744.3635	372.6854	727.3369	364.1721	726.3529	363.6801	7
10	945.5273	473.2673	928.5007	464.7540	927.5167	464.2620	C	673.3264	337.1668	656.2998	328.6536	655.3158	328.1615	6
11	1073.5858	537.2966	1056.5593	528.7833	1055.5753	528.2913	Q	616.3049	308.6561	599.2784	300.1428	598.2944	299.6508	5
12	1170.6386	585.3229	1153.6121	577.3097	1152.6280	576.8177	P	488.2463	244.6268	471.2198	236.1135	470.2358	235.6215	4
13	1299.6812	650.3442	1282.6546	641.8310	1281.6706	641.3390	E	391.1936	196.1094	374.1670	187.5872	373.1830	187.0951	3
14	1386.7132	693.3602	1369.6867	685.3470	1368.7027	684.8550	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
15							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **THFKKSLDDGKVS**

Found in **F5H0L8**, SEC23-interacting protein OS=Homo sapiens GN=SEC23IP PE=2 SV=1

Match to Query 12640: 1802.979348 from(902.496950, 2+) intensity(32097.1836)

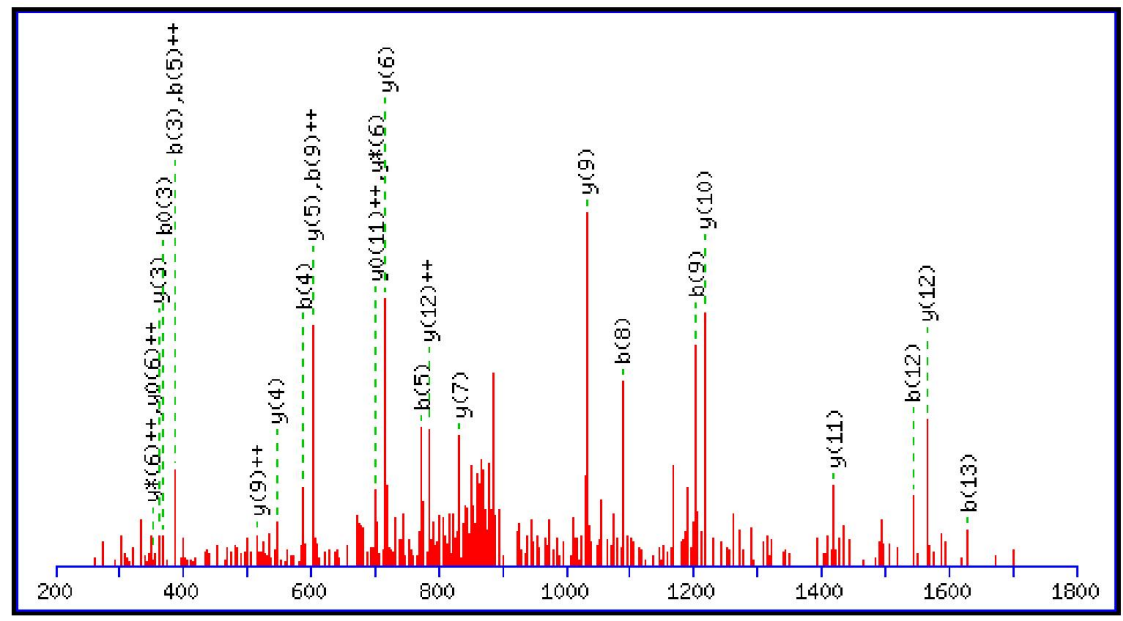
Title: File394 Spectrum10127 scans: 11437

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1802.9799

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

Variable modifications:

K4 : Propionyl-(13CD3)Methyl (K)

K5 : Propionyl (K)

K11 : Propionyl (K)

Ions Score: 45 **Expect:** 0.017

Matches : 25/148 fragment ions using 44 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#	
1	102.0560	51.5311			84.0444	42.5258	T							14	
2	239.1139	120.0606			221.1033	111.0553	H	1702.9395	851.9734	1685.9130	843.4601	1684.9290	842.9621	13	
3	386.1825	193.5948			368.1717	184.5895	F	1565.8806	783.4439	1548.8541	774.9307	1547.8701	774.4387	12	
4	588.3415	294.6743		571.3147	286.1610	570.3307	285.6690	K	1418.8122	709.9097	1401.7857	701.9965	1400.8016	700.9045	11
5	772.4625	386.7349	755.4359	378.2216	754.4519	377.7296	K	1216.6532	608.8302	1199.6266	600.3170	1198.6426	599.8250	10	
6	859.4945	430.2509	842.4680	421.7376	841.4839	421.2456	S	1032.5320	516.7696	1015.5055	508.2564	1014.5214	507.7644	9	
7	972.5786	486.7929	955.5520	478.2796	954.5680	477.7876	L	945.5000	473.2536	928.4734	464.7404	927.4894	464.2483	8	
8	1087.6055	544.3064	1070.5790	535.7931	1069.5949	535.3011	D	832.4159	416.7116	815.3894	408.1983	814.4054	407.7063	7	
9	1202.6325	601.8199	1185.6059	593.3066	1184.6219	592.8146	D	717.3890	359.1981	700.3624	350.6849	699.3784	350.1928	6	
10	1259.6539	630.3306	1242.6274	621.8173	1241.6433	621.3253	G	602.3620	301.6847	585.3385	293.1714	584.3515	292.6794	5	
11	1443.7761	722.3912	1426.7485	713.8779	1425.7645	713.3859	K	545.3406	273.1739	528.3140	264.6606	527.3300	264.1686	4	
12	1542.8435	771.9254	1525.8170	763.4121	1524.8329	762.9201	V	361.2194	181.1133	344.1928	172.6001	343.2088	172.1081	3	
13	1629.8755	815.4414	1612.8490	806.9281	1611.8660	806.4361	S	262.1510	131.5791	245.1294	123.0659	244.1404	122.5738	2	
14							R	175.1190	88.0631	158.0924	79.5498			1	

MS/MS Fragmentation of **DWYQKQGPGR**

Found in **P08727**, Keratin, type I cytoskeletal 19 OS=Homo sapiens GN=KRT19 PE=1 SV=4

Match to Query 8577: 1491.736548 from(746.875550, 2+) intensity(30655.0273)

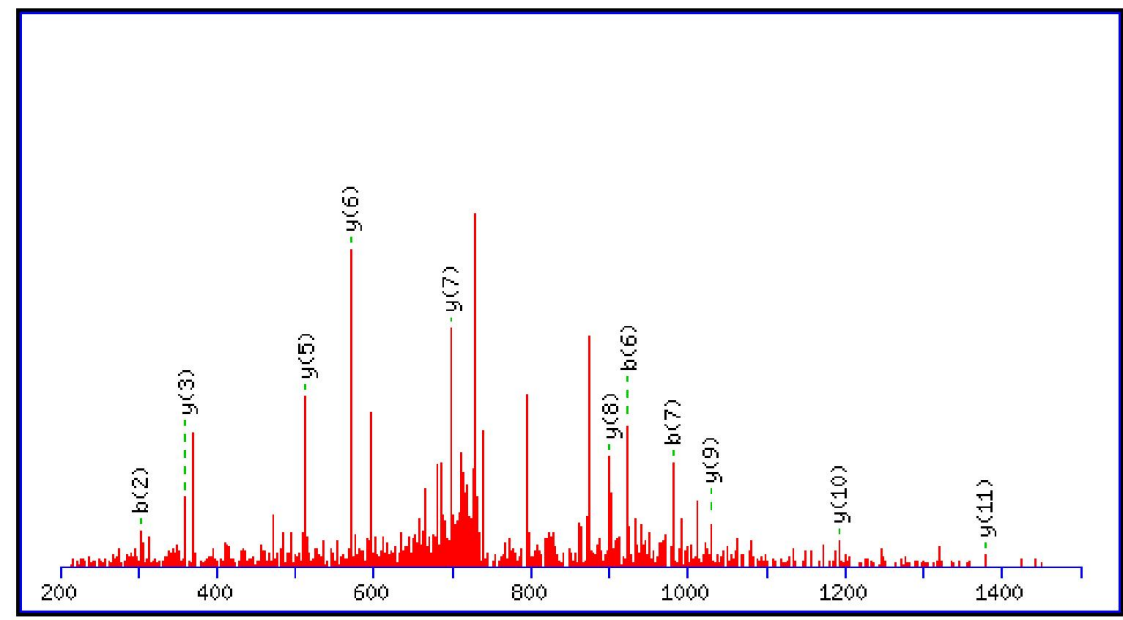
Title: File392 Spectrum10177 scans: 11453

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr6-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1491.7379

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

Variable modifications:

K5 : Propionyl-(13CD3)Methyl (K)

Ions Score: 45 Expect: 0.0096

Matches : 11/124 fragment ions using 26 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	116.0342	58.5207			98.0237	49.5155	D							12
2	302.1135	151.5604			284.1030	142.5551	W	1377.7182	689.3628	1360.6917	680.8495	1359.7077	680.3575	11
3	465.1769	233.0921			447.1663	224.0868	Y	1191.6389	596.3231	1174.6124	587.8098	1173.6284	587.3178	10
4	593.2354	297.1214	576.2089	288.6081	575.2249	288.1161	Q	1028.5756	514.7914	1011.5491	506.2782	1010.5650	505.7862	9
5	795.3945	398.2009	778.3679	389.6876	777.3839	389.1956	K	900.5170	450.7622	883.4905	442.2489	882.5065	441.7569	8
6	923.4530	462.2302	906.4265	453.7169	905.4425	453.2349	Q	698.3580	349.6826	681.3315	341.1694	680.3474	340.6774	7
7	980.4745	490.7409	963.4479	482.2276	962.4639	481.7356	G	570.2994	285.6534	553.2729	277.1401	552.2889	276.6481	6
8	1077.5273	539.2673	1060.5007	530.7540	1059.5167	530.2620	P	513.2780	257.1426	496.2514	248.6293	495.2674	248.1373	5
9	1134.5487	567.7780	1117.5222	559.2647	1116.5382	558.7227	G	416.2252	208.6162	399.1987	200.1030	398.2145	199.6110	4
10	1231.6015	616.3044	1214.5749	607.7911	1213.5909	607.2991	P	359.2037	180.1055	342.1772	171.5922	341.1932	171.1002	3
11	1318.6335	659.8204	1301.6070	651.3071	1300.6229	650.8151	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
12							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **KLAEQFPR**

Found in **E9PL10**, Transcription factor BTF3 homolog 4 OS=Homo sapiens GN=BTF3L4 PE=2 SV=1

Match to Query 2898: 1061.614348 from(531.814450, 2+) intensity(101693.7109)

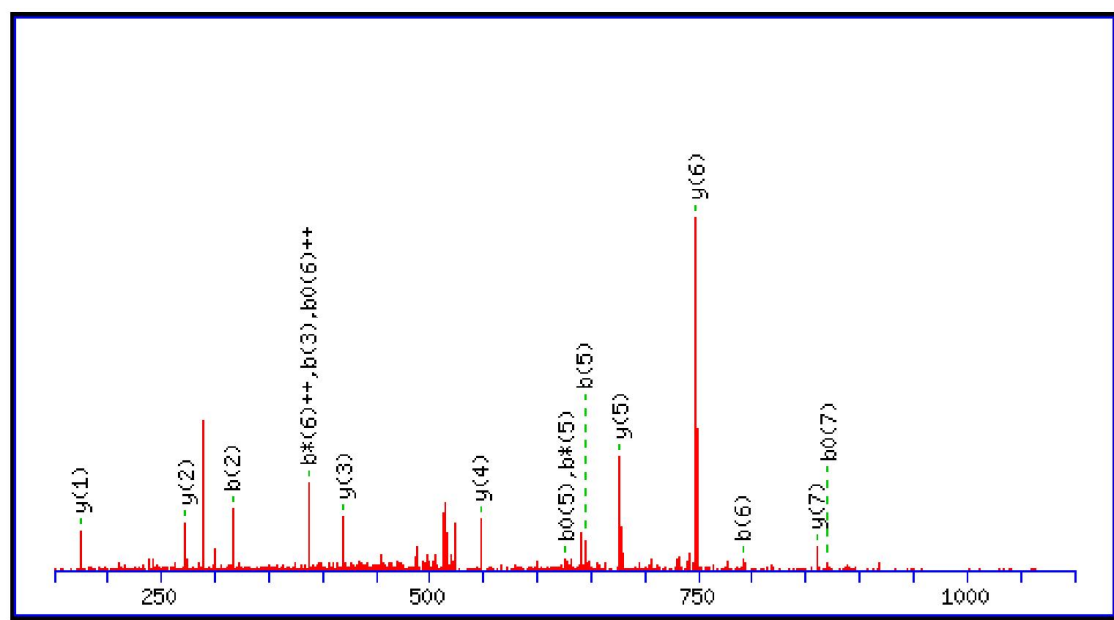
Title: File394 Spectrum9278 scans: 10529

Data file \\192.168.1.104\public\raw data\Date_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1061.6142

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

Variable modifications:

K1 : Propionyl-(13C³)Methyl (K)

Ions Score: 45 **Expect:** 0.011

Matches : 16/70 fragment ions using 28 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							8
2	316.2504	158.6288	299.2238	150.1155			L	860.4625	430.7349	843.4359	422.2216	842.4519	421.7296	7
3	387.2875	194.1474	370.2609	185.6341			A	747.3784	374.1928	730.3519	365.6796	729.3679	365.1876	6
4	516.3301	258.6687	499.3035	250.1554	498.3195	249.6634	E	676.3413	338.6743	659.3148	330.1610	658.3307	329.6690	5
5	644.3886	322.6980	627.3621	314.1847	626.3781	313.6927	Q	547.2987	274.1530	530.2722	265.6397			4
6	791.4571	396.2322	774.4305	387.7189	773.4465	387.2269	P	419.2401	210.1237	402.2136	201.6104			3
7	888.5098	444.7585	871.4833	436.2453	870.4993	435.7533	P	272.1717	136.5895	255.1452	128.0762			2
8							R	175.1190	88.0631	158.0924	79.5498			1

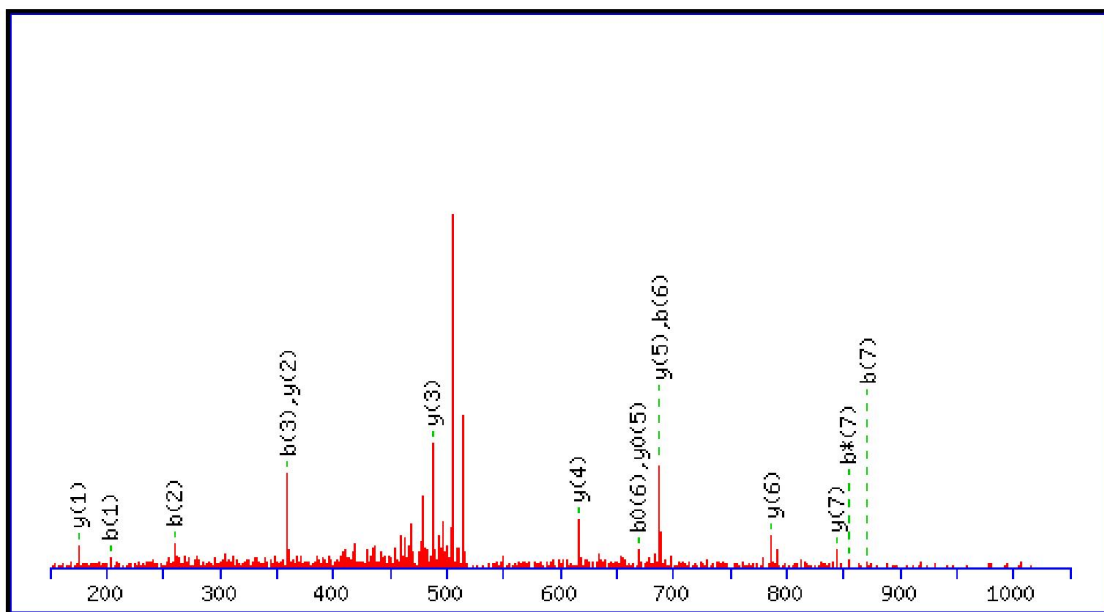
Found in **E7EUYO**, DNA-dependent protein kinase catalytic subunit OS=Homo sapiens GN=PRKDC PE=2 SV=1

Match to Query 2738: 1044.620208 from(523.317380, 2+) intensity(29836.3086)

Title: File386 Spectrum4653 scans: 5491

Data file \\192.168.1.104\public\raw data\Elite01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr14-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1044.6200

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)**K7** : Propionyl (K)

Ions Score: 45 Expect: 0.009

Matches : 15/70 fragment ions using 27 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							8
2	260.1878	130.5976	243.1612	122.0842			G	843.4683	422.2378	826.4417	413.7245	825.4577	413.2325	7
3	359.2562	180.1317	342.2296	171.6184			V	786.4468	393.7271	769.4203	385.2138	768.4363	384.7218	6
4	430.2933	215.6603	413.2667	207.1370			A	687.3784	344.1928	670.3519	335.6796	669.3679	335.1876	5
5	559.3359	280.1716	542.3093	271.6583	541.3253	271.1663	E	616.3413	308.6743	599.3148	300.1610	598.3307	299.6690	4
6	687.3945	344.2009	670.3679	335.6876	669.3839	335.1956	Q	487.2987	244.1530	470.2722	235.6397			3
7	871.5156	436.2615	854.4891	427.7482	853.5051	427.2562	K	359.2401	180.1237	342.2136	171.6104			2
8							R	175.1190	88.0631	158.0924	79.5498			1

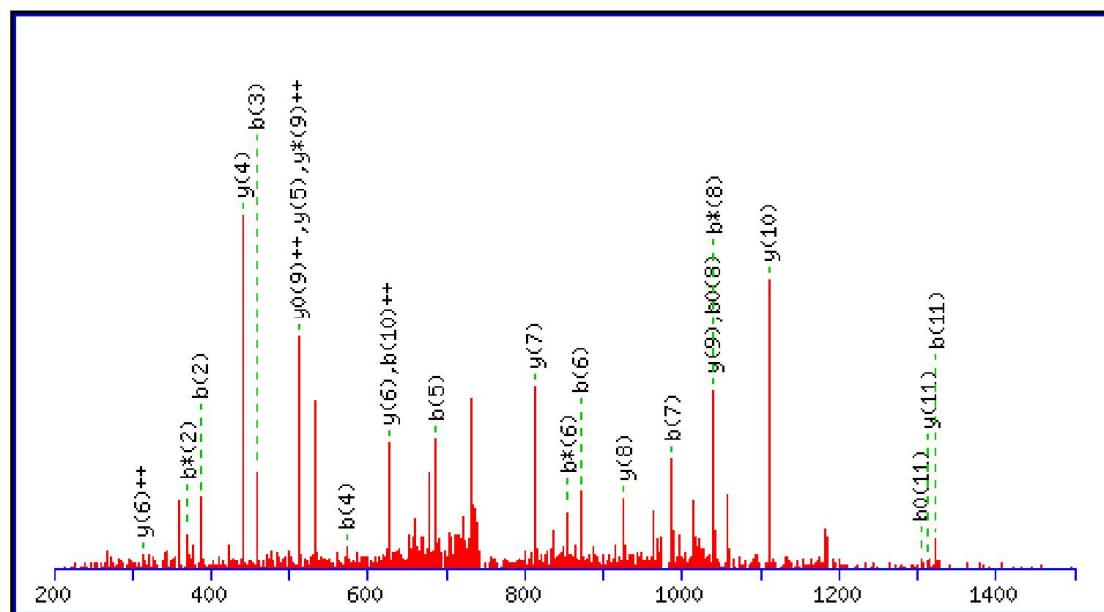
Found in **Q13470**, Non-receptor tyrosine-protein kinase TNK1 OS=Homo sapiens GN=TNK1 PE=1 SV=3

Match to Query 7464: 1495.840428 from(748.927490,2+) intensity(77194.1563)

Title: File388 Spectrum12472 scans: 14095

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1495.8419**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or [terminal only](#))**Variable modifications:****K1** : Propionyl (K)**K2** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 45 **Expect:** 0.015**Matches** : 24/110 fragment ions using 39 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							12
2	387.2875	194.1474	370.2609	185.6341			K	1312.7281	656.8877	1295.7015	648.3544	1294.7175	647.8624	11
3	458.3246	229.6659	441.2980	221.1527			A	1110.5691	555.7882	1093.5425	547.2749	1092.5535	546.7829	10
4	572.3675	286.6874	555.3410	278.1741			N	1039.5390	520.2696	1022.5054	511.7563	1021.5214	511.2643	9
5	685.4516	343.2294	668.4250	334.7161			L	925.4890	463.2482	908.4625	454.7349	907.4785	454.2429	8
6	871.5309	436.2691	854.5043	427.7558			W	812.4050	406.7061	795.3794	398.1928	794.3944	397.7008	7
7	986.5578	493.7826	969.5313	485.2693	968.5473	484.7773	D	626.3257	313.6665	609.2991	305.1532	608.3151	304.6612	6
8	1057.5949	529.3011	1040.5684	520.7878	1039.5844	520.2958	A	511.2987	256.1530	494.2722	247.6397			5
9	1154.6477	577.8275	1137.6212	569.3142	1136.6371	568.8222	P	440.2616	220.6344	423.2350	212.1212			4
10	1251.7005	626.3539	1234.6739	617.8406	1233.6899	617.3486	L	343.2088	172.1081	326.1823	163.5948			3
11	1322.7376	661.8724	1305.7110	653.3592	1304.7270	652.8671	A	246.1561	123.5817	229.1295	115.0684			2
12							R	175.1190	88.0631	168.0924	79.5498			1

MS/MS Fragmentation of **KASGAPAGAR**

Found in **E9PFK5**, Nucleolar protein 14 OS=Homo sapiens GN=NOP14 PE=2 SV=1

Match to Query 1394: 958.546428 from(480.280490, 2+) intensity(8626.3740)

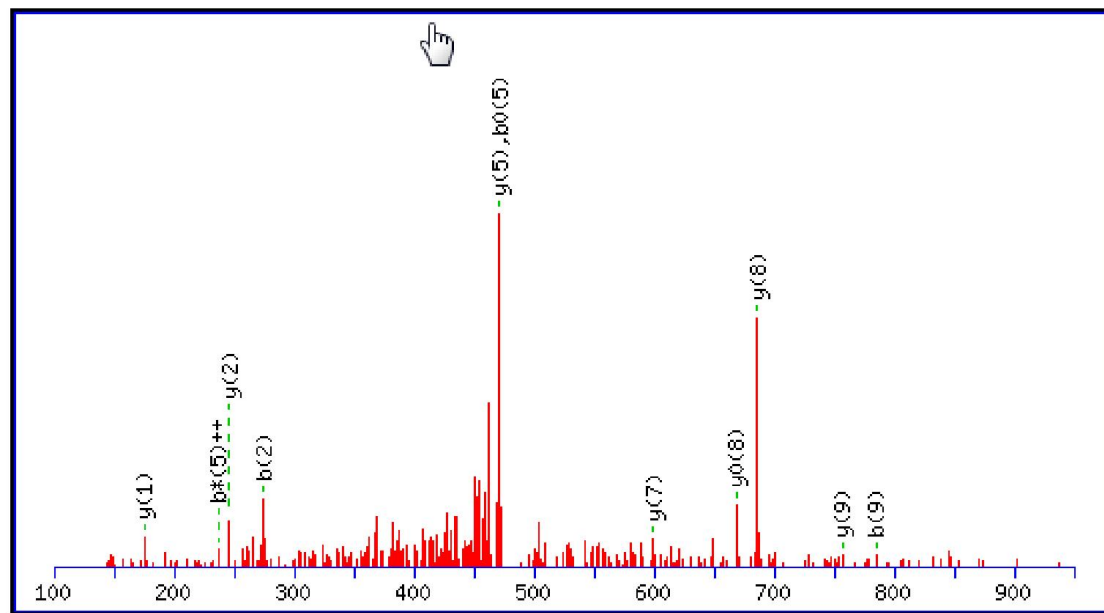
Title: File440 Spectrum1496 scans: 2208

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 958.5468

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 45 **Expect:** 0.013

Matches : 11/90 fragment ions using 16 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺ *	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺ *	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							10
2	274.2034	137.6053	257.1769	129.0921			A	757.3957	379.2012	740.3686	370.6879	739.3846	370.1959	9
3	361.2354	181.1214	344.2089	172.6081	343.2249	172.1161	S	686.3580	343.6826	669.3315	335.1694	668.3474	334.6774	8
4	418.2569	209.6321	401.2303	201.1188	400.2463	200.6268	G	599.3260	300.1666	582.2994	291.6534			7
5	489.2940	245.1506	472.2675	236.6374	471.2834	236.1454	A	542.3045	271.6559	525.2780	263.1426			6
6	586.3468	293.6770	569.3202	285.1638	568.3362	284.6717	P	471.2674	236.1373	454.2409	227.6241			5
7	657.3839	329.1956	640.3573	320.6823	639.3733	320.1903	A	374.2146	187.6110	357.1881	179.0977			4
8	714.4054	357.7063	697.3788	349.1930	696.3648	348.7010	G	303.1775	152.0924	286.1510	143.5791			3
9	785.4425	393.2249	768.4159	384.7116	767.4319	384.2196	A	246.1561	123.5817	229.1295	115.0684			2
10							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **QFQFKAKR**

Found in **Q9NRF8**, CTP synthase 2 OS=Homo sapiens GN=CTPS2 PE=1 SV=1

Match to Query 3990: 1181.683328 from(591.848940, 2+) intensity(309332.5625)

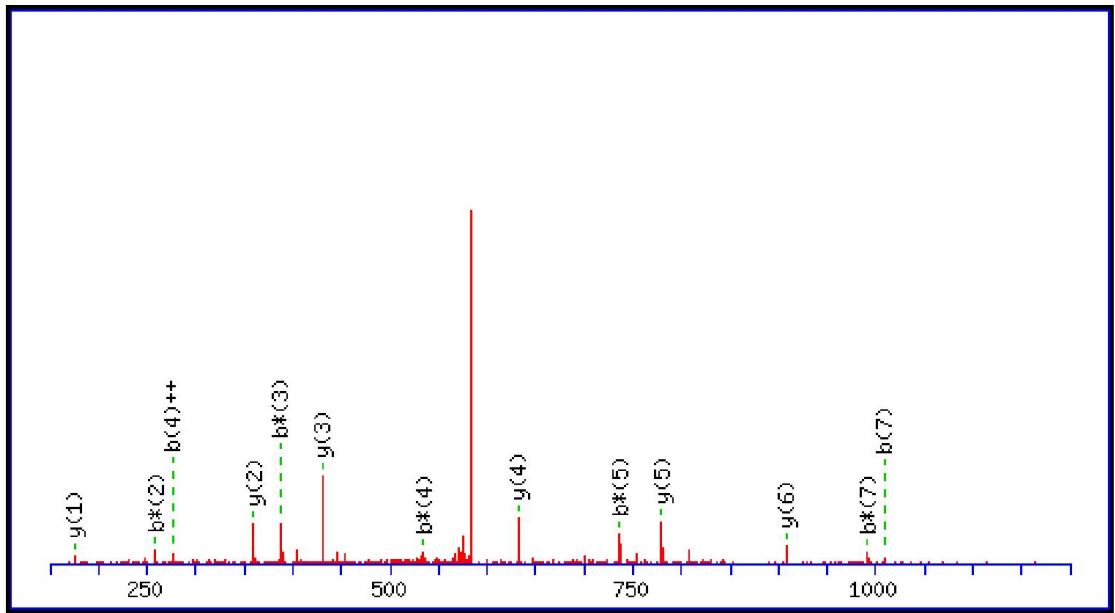
Title: File386 Spectrum12040 scans: 13422

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr14-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1181.6830

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

Variable modifications:

K5 : Propionyl-(13CD3)Methyl (K)

K7 : Propionyl (K)

Ions Score: 44 **Expect:** 0.012

Matches : 14/56 fragment ions using 20 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	#
1	129.0659	65.0366	112.0393	56.5233	Q					8
2	276.1343	138.5708	259.1077	130.0575	F	1054.6317	527.8195	1037.6051	519.3062	7
3	404.1928	202.6001	387.1663	194.0868	Q	907.5632	454.2853	890.5367	445.7720	6
4	551.2613	276.1343	534.2347	267.6210	F	779.5047	390.2560	762.4781	381.7427	5
5	753.4203	377.2138	736.3937	368.7005	K	632.4363	316.7218	615.4097	308.2085	4
6	824.4574	412.7323	807.4308	404.2191	A	430.2772	215.6423	413.2507	207.1290	3
7	1008.5786	504.7929	991.5520	496.2796	K	359.2401	180.1237	342.2136	171.6104	2
8					R	175.1190	88.0631	158.0924	79.5498	1

MS/MS Fragmentation of **MLKTAVSEKMLKPTGR**

Found in **FZZ2C0**, Exosome complex exonuclease RRP44 OS=Homo sapiens GN=DIS3 PE=2 SV=1

Match to Query 14545: 1983.155868 from(992.585210, 2+) intensity(112453.6563)

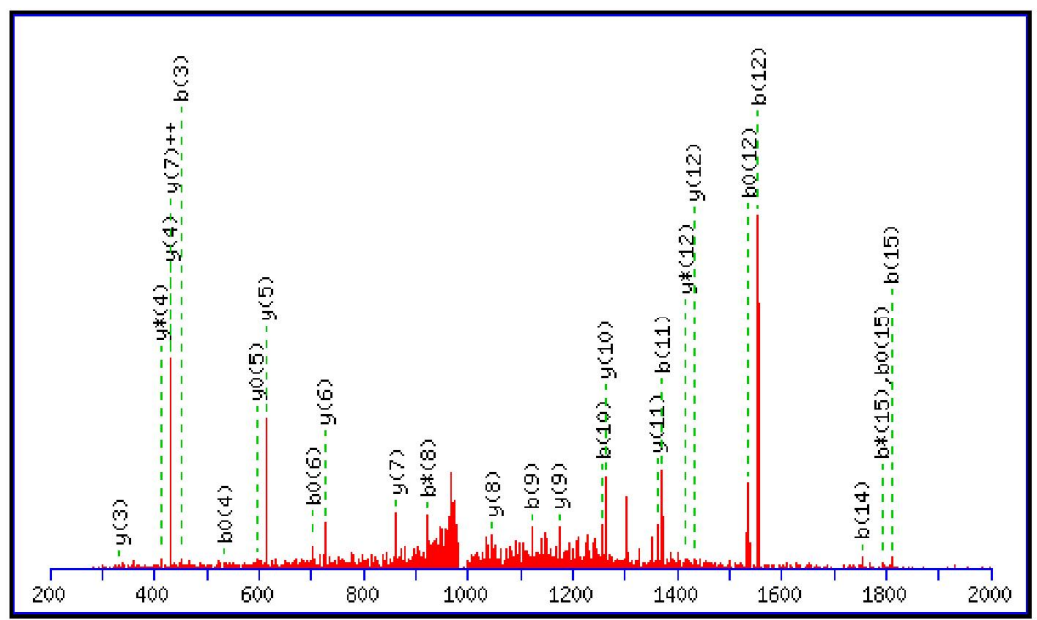
Title: File652 Spectrum15184 scans: 16896

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr10-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1983.1562

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

Variable modifications:

- M1** : Label:13C(1)2H(3) (M)
- K3** : Propionyl-(13CD3)Methyl (K)
- K9** : Propionyl (K)
- M10** : Label:13C(1)2H(3) (M)
- K12** : Propionyl (K)

Ions Score: 43 **Expect:** 0.016

Matches : 27/166 fragment ions using 67 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	136.0699	68.5386					I							16
2	249.1540	125.0806					L	1849.1009	925.0541	1832.0743	916.5408	1831.0903	916.0488	15
3	451.3130	226.1601	434.2365	217.6469			K	1736.0168	868.5120	1718.9902	859.9988	1718.0062	859.5068	14
4	552.3607	276.6840	535.3342	268.1707	534.3501	267.6787	T	1533.8578	767.4325	1516.8812	758.9193	1515.9472	758.4272	13
5	623.3978	312.2025	606.3713	303.6893	605.3873	303.1973	A	1432.8101	716.9087	1415.7835	708.3954	1414.7995	707.9034	12
6	722.4662	361.7368	705.4397	353.2235	704.4557	352.7315	V	1361.7730	681.3901	1344.7464	672.8769	1343.7624	672.3843	11
7	809.4983	405.2528	792.4717	396.7395	791.4877	396.2475	S	1262.7046	631.8559	1245.6780	623.3426	1244.6940	622.8506	10
8	938.5409	469.7741	921.5143	461.2608	920.5303	460.7688	E	1175.6725	588.3399	1158.6460	579.8266	1157.6620	579.3346	9
9	1122.6620	561.8347	1105.6355	553.3214	1104.6515	552.8294	K	1046.6299	523.8186	1029.6034	515.3053	1028.6194	514.8133	8
10	1257.7247	629.3660	1240.6982	620.8527	1239.7141	620.3607	I	862.5088	431.7580	845.4822	423.2447	844.4982	422.7527	7
11	1370.8089	685.9080	1353.7822	677.3947	1352.7982	676.9027	L	727.4461	364.2267	710.4196	355.7134	709.4355	355.2214	6
12	1554.9299	777.9686	1537.9034	769.4553	1536.9194	768.9633	K	614.3620	307.6847	597.3355	299.1714	596.3515	298.6794	5
13	1651.9827	826.4950	1634.9562	817.9817	1633.9721	817.4897	P	430.2409	215.6241	413.2143	207.1108	412.2303	206.6188	4
14	1753.0304	877.0188	1736.0038	868.5056	1735.0198	868.0135	T	333.1881	167.0977	316.1615	158.5844	315.1775	158.0924	3
15	1810.0518	905.5296	1793.0253	897.0163	1792.0413	896.5243	G	232.1404	116.5738	215.1199	108.0606			2
16							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **LALKTLKKVR**

Found in **Q2NL82**, Pre-rRNA-processing protein TSR1 homolog OS=Homo sapiens GN=TSR1 PE=1 SV=1

Match to Query 7124: 1441.952128 from(721.983340, 2+) intensity(105017.2422)

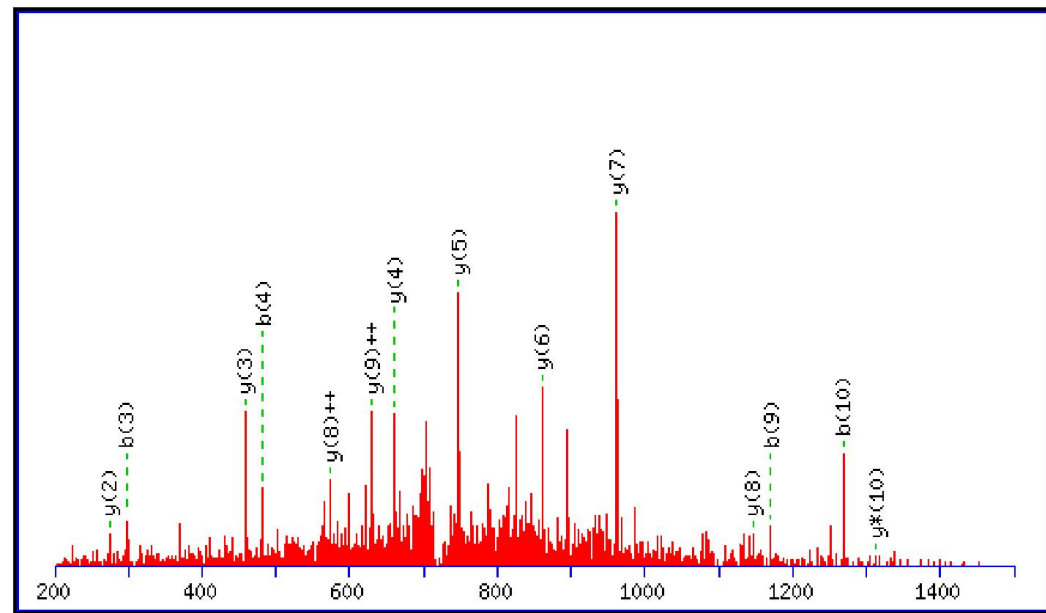
Title: File443j Spectrum15197 scans: 17009

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-6-SW620-Kpropio-methyl-IP-Fr15-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1441.9504

Fixed modifications: Carbamidomethyl (C) (apply to sp)

Variable modifications:
K4 : Propionyl (K)
K8 : Propionyl-(13CD3)Methyl (K)
K9 : Propionyl (K)

Ions Score: 43 **Expect:** 0.0015

Matches : 14/98 fragment ions using 26 most intense peaks

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							11
2	185.1285	93.0679					A	1329.8737	665.4405	1312.8471	656.9272	1311.8631	656.4352	10
3	298.2125	149.6099					L	1258.8366	629.9219	1241.8100	621.4086	1240.8260	620.9166	9
4	482.3337	241.6705	465.3071	233.1572			K	1145.7525	573.3799	1128.7260	564.8666	1127.7419	564.3746	8
5	583.3814	292.1943	566.3548	283.6811	565.3708	283.1890	T	961.6313	481.3193	944.6048	472.8060	943.6208	472.3140	7
6	696.4654	348.7364	679.4389	340.2231	678.4549	339.7311	L	850.5836	430.7955	843.5571	422.2822	842.5731	421.7902	6
7	783.4975	392.2524	766.4709	383.7391	765.4869	383.2471	S	747.4996	374.2534	730.4730	365.7402	729.4890	365.2481	5
8	985.6565	493.3319	968.6299	484.8186	967.6459	484.3266	K	660.4676	330.7374	643.4410	322.2241			4
9	1169.7777	585.3925	1152.7511	576.8792	1151.7671	576.3872	K	458.3085	229.6579	441.2820	221.1446			3
10	1268.8461	634.9267	1251.8195	626.4134	1250.8355	625.9214	V	274.1874	137.5973	257.1608	129.0840			2
11							R	175.1190	88.0631	158.0924	79.5498			1

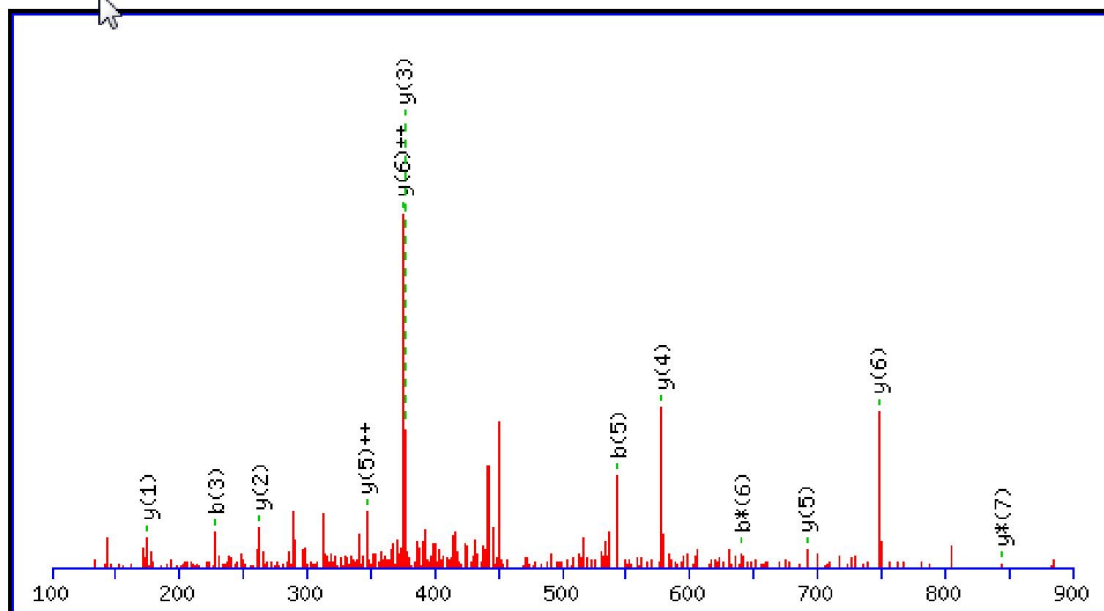
Found in **075420**, PERQ amino acid-rich with GYF domain-containing protein 1 OS=Homo sapiens GN=GIGYF1 PE=1 SV=2

Match to Query 1040: 917.556428 from(459.785490, 2+) intensity(12051.6621)

Title: File440 Spectrum7958 scans: 9163

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 917.5567**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K5** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 42 **Expect:** 0.016**Matches** : 12/62 fragment ions using 24 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺ *	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺ *	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							8
2	171.1128	86.0600					L	861.5425	431.2749	844.5160	422.7618	843.5319	422.2696	7
3	228.1343	114.5708					G	748.4584	374.7329	731.4319	366.2196	730.4479	365.7276	6
4	341.2183	171.1128					L	691.4370	346.2221	674.4104	337.7089	673.4264	337.2168	5
5	543.3173	272.1923	528.3508	263.6790			K	578.3529	289.6801	561.3264	281.1668	560.3424	280.6748	4
6	657.4203	329.2138	640.3937	320.7005			N	376.1939	188.6006	359.1674	180.0873	358.1833	179.5953	3
7	744.4523	372.7298	727.4258	364.2165	726.4417	363.7245	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
8							R	175.1190	88.0631	158.0924	79.5498			1

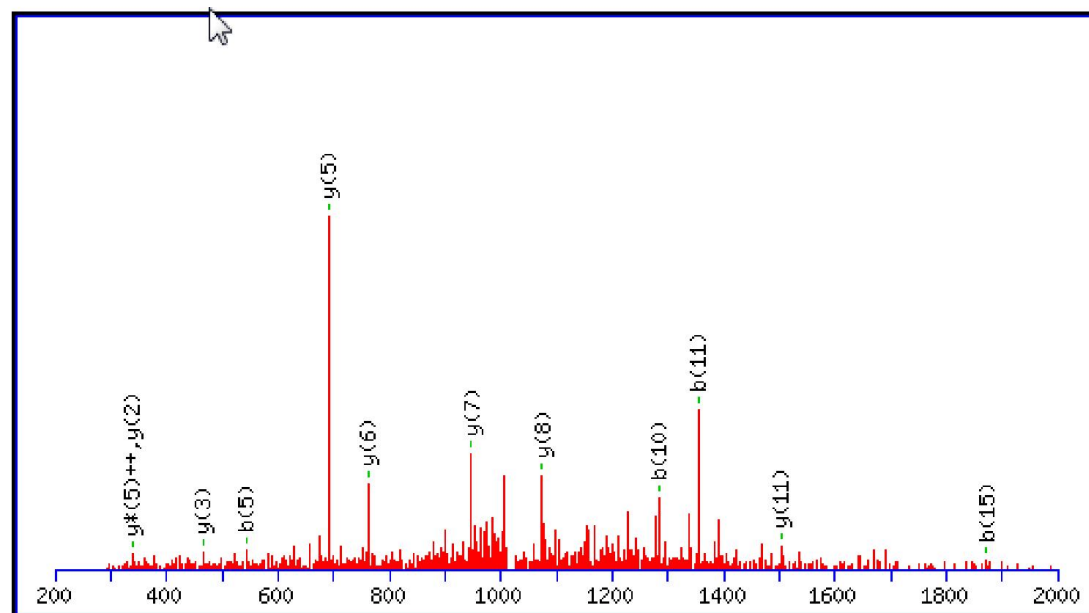
MS/MS Fragmentation of **TPLCAILKQKAPQQYR**Found in **A8MTK3**, POT1 protection of telomeres 1 homolog (S. pombe), isoform CRA_a OS=Homo sapiens GN=POT1 PE=2 SV=1

Match to Query 14754: 2044.142308 from(1023.078430, 2+) intensity(112413.2500)

Title: File386 Spectrum16342 scans: 18040

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr14-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 2044.1412**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or t**Variable modifications:****K8** : Propionyl-(13CD3)Methyl (K)**K10** : Propionyl (K)**Ions Score:** 41 **Expect:** 0.045**Matches** : 12/136 fragment ions using 17 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T					16
2	199.1077	100.0575			181.0972	91.0522	P	1944.1008	972.5540	1927.0743	964.0408	15
3	312.1918	156.5995			294.1812	147.5942	L	1847.0480	924.0277	1830.0215	915.5144	14
4	472.2224	236.6149			454.2119	227.6096	C	1733.9640	867.4856	1716.9374	858.9724	13
5	543.2595	272.1334			525.2490	263.1281	A	1573.9333	787.4703	1556.9068	778.9570	12
6	658.3436	328.6754			638.3330	319.6702	I	1502.8962	751.9517	1485.8697	743.4385	11
7	769.4277	385.2175			751.4171	376.2122	L	1389.8121	695.4097	1372.7856	686.8964	10
8	971.5867	486.2970	954.5601	477.7837	953.5761	477.2917	K	1276.7281	638.8677	1259.7015	630.3544	9
9	1099.6453	550.3263	1082.6137	541.8130	1081.6347	541.3210	Q	1074.5691	537.7882	1057.5425	529.2749	8
10	1283.7664	642.3869	1266.7399	633.8736	1265.7559	633.3816	K	946.5105	473.7589	929.4839	465.2456	7
11	1354.8036	677.9054	1337.7770	669.3921	1336.7930	668.9001	A	762.3893	381.6983	745.3628	373.1850	6
12	1451.8563	726.4318	1434.8298	717.9185	1433.8458	717.4265	P	691.3522	346.1797	674.3257	337.6665	5
13	1579.9149	790.4611	1562.8884	781.9478	1561.9043	781.4558	Q	594.2994	297.6534	577.2729	289.1401	4
14	1707.9735	854.4904	1690.9469	845.9771	1689.9629	845.4851	Q	466.2409	233.6241	449.2143	225.1108	3
15	1871.0368	936.0220	1854.0103	927.5088	1853.0262	927.0168	Y	338.1823	169.5948	321.1557	161.0815	2
16							R	175.1190	88.0631	158.0924	79.5498	1

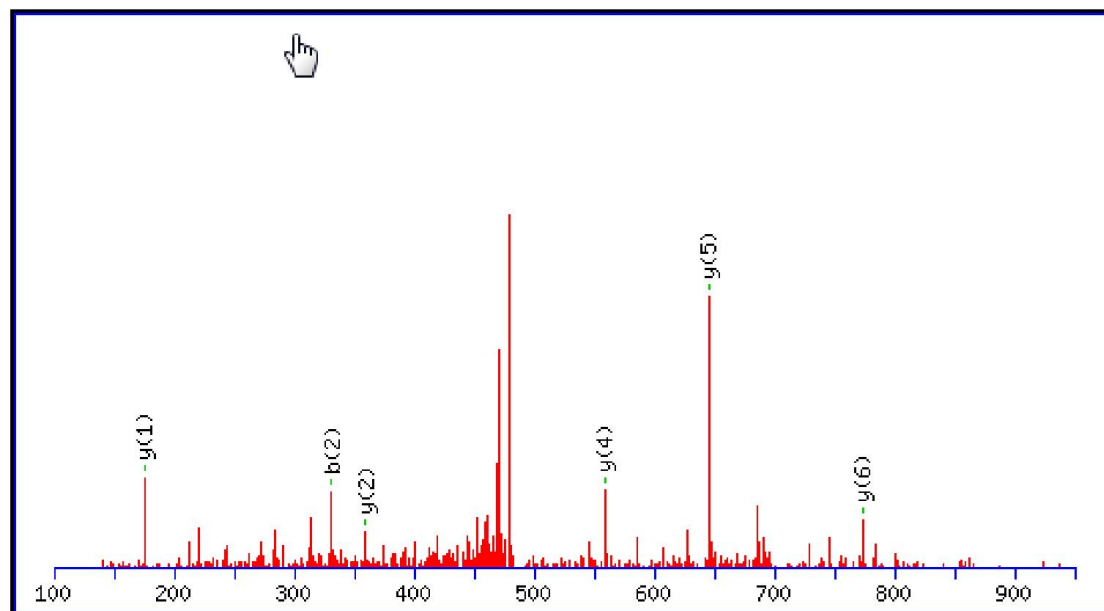
Found in **G3V1T4**, Nuclear pore complex protein Nup107 OS=Homo sapiens GN=NUP107 PE=2 SV=1

Match to Query 1550: 974.579748 from(488.297150, 2+) intensity(23531.1719)

Title: File440 Spectrum1870 scans: 2624

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 974.5781**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**K6** : Propionyl (K)**Ions Score:** 40 **Expect:** 0.026**Matches** : 6/60 fragment ions using 8 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	263.1663	102.0868	186.1397	93.5735			K							7
2	331.2249	166.1161	314.1983	157.6028			Q	773.4264	387.2169	756.3999	378.7036	755.4159	378.2116	6
3	418.2569	209.6321	401.2303	201.1188	400.2463	200.6268	S	645.3679	323.1876	628.3413	314.6743	627.3573	314.1823	5
4	489.2940	245.1506	472.2675	236.6374	471.2834	236.1454	A	558.3358	279.6715	541.3093	271.1583			4
5	617.3526	309.1799	600.3260	300.6667	599.3420	300.1746	Q	487.2987	244.1530	470.2722	235.6397			3
6	801.4738	401.2405	784.4472	392.7272	783.4632	392.2352	K	359.2401	180.1237	342.2136	171.6104			2
7							R	175.1190	88.0631	168.0924	79.5498			1

MS/MS Fragmentation of **AAVKTLNPKAEVAR**

Found in **P40227**, T-complex protein 1 subunit zeta OS=Homo sapiens GN=CCT6A PE=1 SV=3

Match to Query 8805: 1638.958968 from(820.486760, 2+) intensity(42681.8750)

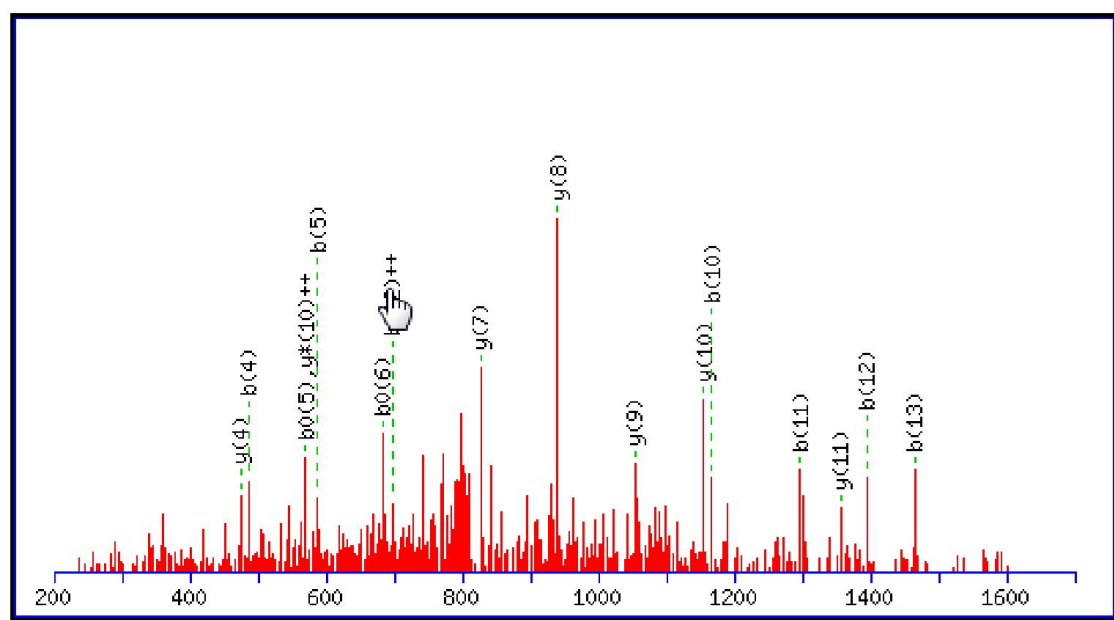
Title: File386 Spectrum15176 scans: 16768

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr14-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1638.9577

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

Variable modifications:

N-term : Acetyl (Protein N-term)

K4 : Propionyl-(13CD3)Methyl (K)

K9 : Propionyl (K)

Ions Score: 38 **Expect:** 0.06

Matches : 16/136 fragment ions using 28 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0550	57.5311					A							14
2	185.0921	93.0497					A	1526.9173	763.9623	1509.8908	755.4490	1508.9068	754.9570	13
3	284.1605	142.5839					V	1455.8802	728.4438	1438.8537	719.9305	1437.8697	719.4385	12
4	486.3195	243.6634	469.2929	235.1501			K	1356.8118	678.9095	1339.7853	670.3963	1338.8012	669.9043	11
5	587.3672	294.1872	570.3406	285.6740	569.3566	285.1819	T	1154.6529	577.8300	1137.6263	569.3168	1136.6422	568.8248	10
6	700.4512	350.7293	683.4247	342.2160	682.4407	341.7240	L	1053.6051	527.3062	1036.5786	518.7929	1035.5946	518.3009	9
7	814.4942	407.7507	797.4676	399.2374	796.4836	398.7454	N	940.5211	470.7642	923.4945	462.2509	922.5105	461.7589	8
8	911.5469	456.2771	894.5204	447.7638	893.5364	447.2718	P	826.4781	413.7427	809.4516	405.2294	808.4676	404.7374	7
9	1095.6681	548.3377	1078.6416	539.8244	1077.6575	539.3224	K	729.4254	365.2163	712.3988	356.7030	711.4148	356.2110	6
10	1166.7052	583.8562	1149.6787	575.3430	1148.6947	574.8510	A	645.3042	273.1557	628.2776	264.6425	627.2936	264.1504	5
11	1295.7478	648.3775	1278.7213	639.8643	1277.7372	639.3723	K	474.2671	237.6372	457.2405	229.1239	456.2565	228.6319	4
12	1394.8162	697.9118	1377.7897	689.3985	1376.8057	688.9065	V	345.2245	173.1159	328.1979	164.6028			3
13	1465.8533	733.4303	1448.8268	724.9170	1447.8428	724.4250	A	246.1561	123.5817	229.1295	115.0684			2
14							R	175.1190	88.0631	158.0924	79.5498			1

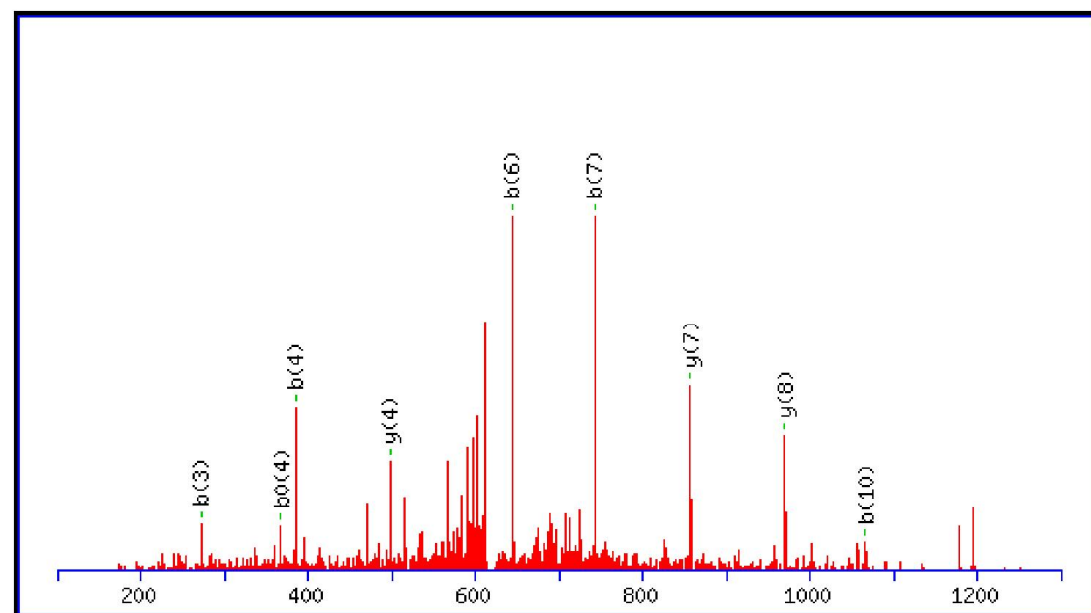
Found in **095750**, Fibroblast growth factor 19 OS=Homo sapiens GN=FGF19 PE=1 SV=1

Match to Query 4430: 1239.754728 from(620.884640, 2+) intensity(133018.7813)

Title: File654 Spectrum11311 scans: 12907

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr4-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1239.7572**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K5** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 37 **Expect:** 0.043**Matches** : 9/108 fragment ions using 11 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T							11
2	201.1234	101.0653			183.1128	92.0600	V	1139.7168	570.3520	1122.6902	561.8488	1121.7062	561.3567	10
3	272.1605	136.5839			254.1499	127.5786	A	1040.6484	520.3278	1023.6218	512.3146	1022.6378	511.8225	9
4	385.2445	193.1259			367.2340	184.1206	I	969.6113	485.3093	952.5847	476.7960	951.6007	476.3040	8
5	587.4038	294.2054	570.3770	285.6921	569.3930	285.2001	K	856.5272	428.7672	839.5006	420.2540	838.5166	419.7820	7
6	644.4250	322.7162	627.3985	314.2029	626.4145	313.7109	G	654.3682	327.6877	637.3416	319.1745	636.3576	318.6824	6
7	743.4934	372.2504	726.4669	363.7371	725.4829	363.2451	V	597.3467	299.1770	580.3202	290.6637	579.3362	290.1717	5
8	880.5523	440.7798	863.5258	432.2665	862.5418	431.7745	H	498.2783	249.6428	481.2518	241.1295	480.2677	240.6375	4
9	967.5844	484.2958	950.5578	475.7826	949.5738	475.2905	S	361.2194	181.1135	344.1928	172.6001	343.2088	172.1081	3
10	1066.6528	533.8300	1049.6262	525.3168	1048.6422	524.8248	V	274.1874	137.5973	257.1608	129.0840			2
11							R	175.1190	88.0631	158.0924	79.5498			1

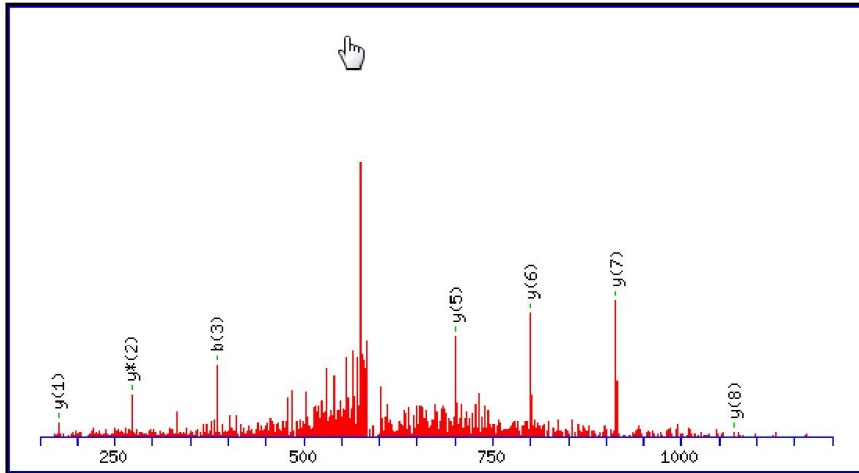
MS/MS Fragmentation of **DRLVPLKNR**Found in **H7C602**, T-lymphoma invasion and metastasis-inducing protein 2 OS=Homo sapiens GN=TIAM2 PE=2 SW=1

Match to Query 3972: 1183.727748 from(592.871150, 2+) intensity(15340.2852)

Title: File649 Spectrum11051 scans: 12311

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr20-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1183.7310**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K7** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 37 **Expect:** 0.042**Matches** : 8/78 fragment ions using 10 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺ +	b ⁰	b ⁰ +	Seq.	y	y ⁺⁺	y ⁺	y ⁺ +	#
1	116.0342	58.5207			98.0237	49.5155	D					9
2	272.1353	136.5713	255.1088	128.0580	254.1248	127.5660	R	1069.7113	535.3593	1052.6848	526.8460	8
3	385.2194	193.1133	368.1928	184.6001	367.2088	184.1081	L	913.6102	457.3087	896.5836	448.7955	7
4	484.2878	242.6475	467.2613	234.1343	466.2772	233.6423	V	800.5261	400.7667	783.4996	392.2534	6
5	581.3406	291.1739	564.3140	282.6606	563.3300	282.1686	P	701.4577	351.2325	684.4312	342.1928	5
6	694.4246	347.7160	677.3981	339.2027	676.4141	338.7107	L	604.4050	302.7061	587.3784	294.1928	4
7	896.5836	448.7955	879.5571	440.2822	878.5731	439.7902	K	491.3209	246.1641	474.2943	237.6508	3
8	1010.6266	505.8169	993.6000	497.3037	992.6160	496.8116	N	289.1619	145.0846	272.1353	136.5713	2
9							R	175.1190	88.0631	158.0924	79.5498	1

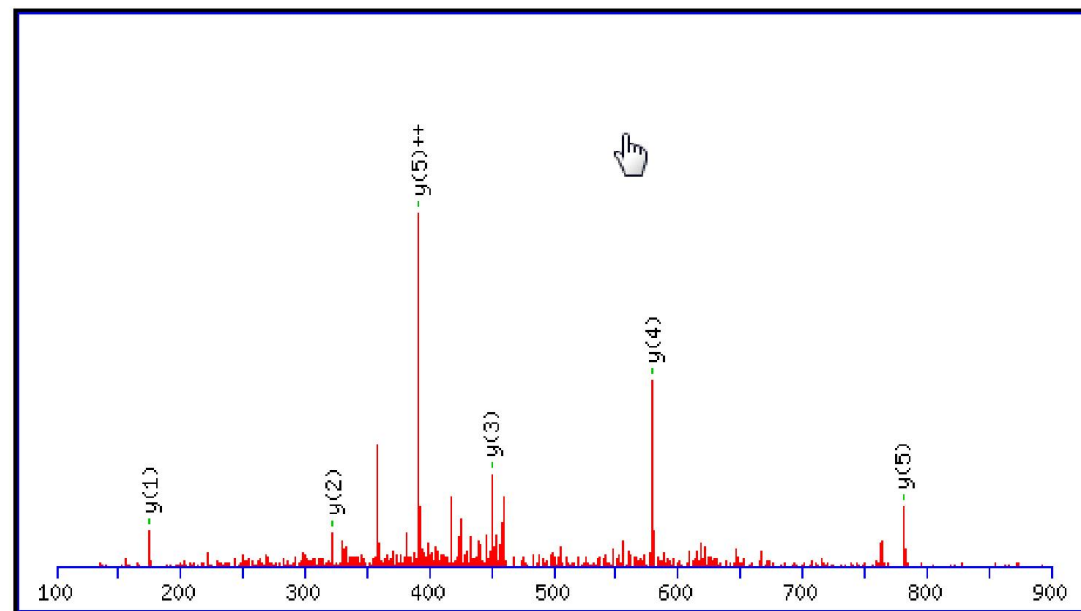
MS/MS Fragmentation of **VKEQFR**Found in **014802**, DNA-directed RNA polymerase III subunit RPC1 OS=Homo sapiens GN=POLR3A PE=1 SV=2

Match to Query 1533: 935.534088 from(468.774320, 2+) intensity(22065.8086)

Title: File448 Spectrum12546 scans: 14308

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-6-SW620-Kpropio-methyl-IP-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 935.5349**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****N-term :** Propionyl (protein N-term) (Protein N-term)**K2 :** Propionyl-(13CD3)Methyl (K)**Ions Score:** 37 **Expect:** 0.066**Matches :** 6/48 fragment ions using 8 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	136.1019	78.5546					V							6
2	358.2609	179.6341	341.2344	171.1208			K	781.4476	391.2274	764.4210	382.7141	763.4370	382.2221	5
3	487.3035	244.1554	470.2770	235.6421	469.2929	235.1501	K	579.2885	290.1479	562.2620	281.6346	561.2780	281.1426	4
4	615.3621	308.1847	598.3355	299.6714	597.3515	299.1794	Q	450.2459	225.6266	433.2194	217.1133			3
5	762.4305	381.7189	745.4040	373.2056	744.4199	372.7136	F	322.1874	161.5973	305.1608	153.0840			2
6							R	175.1190	88.0631	158.0924	79.5498			1

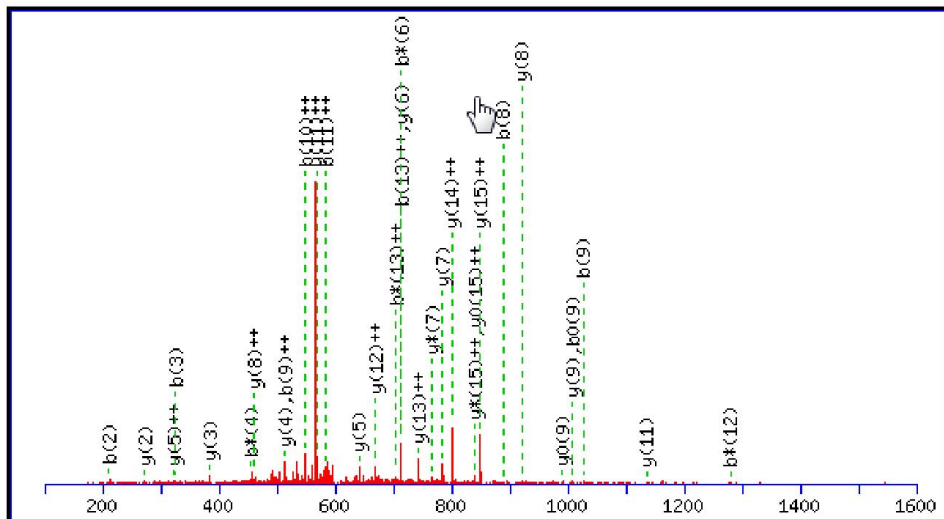
MS/MS Fragmentation of **IPNFKGASHAAEQLPR**Found in **Q2M296-3**, Isoform 3 of Methenyltetrahydrofolate synthase domain-containing protein OS=Homo sapiens GN=MTHFS

Match to Query 12153: 1808.978172 from(604.000000,3+) intensity(38576.3711)

Title: File658 Spectrum8433 scans: 9706

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr17-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide $M_r(\text{calc})$:** 1808.9806**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K5** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 37 **Expect:** 0.13**Matches** : 33/154 fragment ions using 72 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					I							16
2	211.1441	106.0757					P	1696.9038	848.9555	1679.8773	840.4423	1678.8332	839.9503	15
3	325.1870	163.0972	308.1605	154.5839			N	1599.8511	800.4292	1582.8245	791.9159	1581.8405	791.4239	14
4	472.2554	236.6314	455.2239	228.1181			F	1485.8081	743.4077	1468.7816	734.8944	1467.7976	734.4024	13
5	674.4145	337.7109	657.3879	329.1976			K	1338.7397	669.8735	1321.7132	661.3602	1320.7291	660.8882	12
6	731.4359	366.2216	714.4094	357.7083			G	1136.5807	568.7940	1119.5541	560.2907	1118.5701	559.7887	11
7	802.4730	401.7402	785.4465	393.2269			A	1079.5592	540.2833	1062.5327	531.7700	1061.5487	531.2780	10
8	889.5051	445.2562	872.4785	436.7429	871.4945	436.2509	S	1008.5221	504.7647	991.4956	496.2514	990.5116	495.7594	9
9	1026.5640	513.7856	1009.5374	505.2724	1008.5534	504.7803	H	921.4901	461.2487	904.4635	452.7354	903.4795	452.2434	8
10	1097.6011	549.3042	1080.5745	540.7909	1079.5905	540.2989	A	784.4312	392.7192	767.4046	384.2060	766.4206	383.7139	7
11	1168.6382	584.8227	1151.6117	576.3095	1150.6276	575.8175	A	713.3941	357.2007	696.3675	348.6874	695.3835	348.1954	6
12	1297.6808	649.3440	1280.6542	640.8308	1279.6702	640.3388	E	642.3570	321.6821	625.3304	313.1688	624.3464	312.6768	5
13	1425.7394	713.3733	1408.7128	704.8601	1407.7288	704.3680	Q	513.3144	257.1608	496.2878	248.6475			4
14	1538.8234	769.9154	1521.7969	761.4021	1520.8129	760.9101	L	385.2558	193.1315	368.2292	184.6183			3
15	1635.8762	818.4417	1618.8497	809.9285	1617.8656	809.4365	P	272.1717	136.5895	255.1452	128.0762			2
16							R	175.1190	88.0631	158.0924	79.5498			1

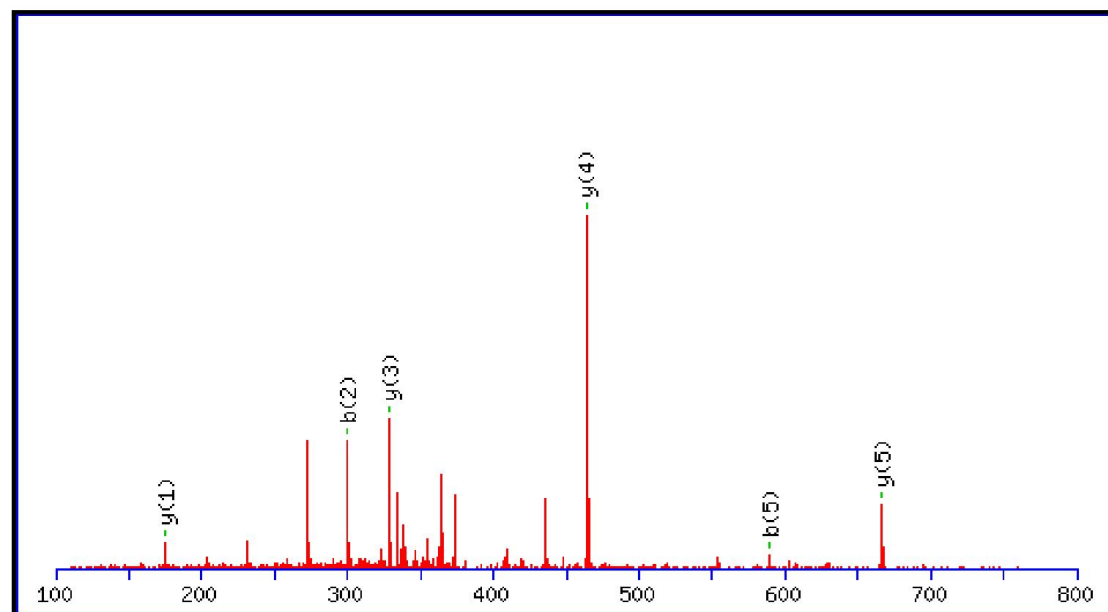
MS/MS Fragmentation of **PKMPGR**Found in **Q9Y5K6**, CD2-associated protein OS=Homo sapiens GN=CD2AP PE=1 SV=1

Match to Query 221: 762.461828 from(382.238190, 2+) intensity(97489.3281)

Title: File392 Spectrum4019 scans: 4788

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 762.4603**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-(13CD3)Methyl (K)**M3** : Label:13C(1)2H(3) (M)**Ions Score:** 36 **Expect:** 0.059**Matches** : 6/38 fragment ions using 7 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	98.0600	49.5337			P					6
2	300.2191	150.6132	283.1925	142.0999	K	666.4149	333.7111	649.3883	325.1978	5
3	435.2817	218.1445	418.2552	209.6312	M	464.2558	232.6316	447.2293	224.1183	4
4	532.3345	266.6709	515.3079	258.1576	P	329.1932	165.1002	312.1666	156.5870	3
5	589.3560	295.1816	572.3294	286.6683	G	232.1404	116.5738	215.1139	108.0606	2
6					R	175.1190	88.0631	158.0924	79.5498	1

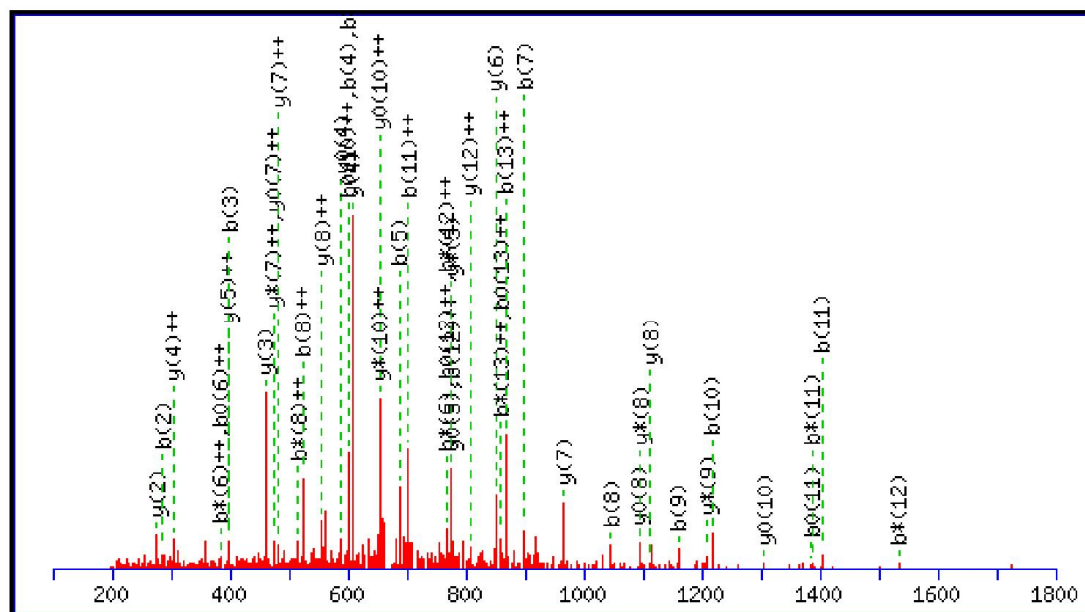
Found in **H7C5D0**, Protein DENND6A (Fragment) OS=Homo sapiens GN=DENND6A PE=4 SV=1

Match to Query 14565: 2009.043972 from(670.688600, 3+) intensity(31107.2813)

Title: File388 Spectrum17027 scans: 19170

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to DaLabel all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 2009.0432

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

Variable modifications:

K4 : Propionyl-(13CD3)Methyl (K)

K13 : Propionyl (K)

Ions Score: 36 Expect: 0.17

Matches : 48/152 fragment ions using 80 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	138.0662	69.5367					H							15
2	285.1346	143.0709					F	1872.9916	936.9994	1855.9650	928.4861	1854.9810	927.9941	14
3	398.2187	199.6130					L	1725.9232	863.4652	1708.8966	854.9519	1707.9126	854.4599	13
4	600.3777	900.6925	583.3511	292.1792			K	1612.8391	806.9232	1595.8125	798.4099	1594.8285	797.9179	12
5	687.4097	344.2085	670.3832	335.6952	669.3991	335.2032	S	1410.6801	705.8437	1393.6535	697.3304	1392.6695	696.8384	11
6	784.4625	392.7349	767.4359	384.2216	766.4519	383.7296	P	1323.6480	662.3277	1306.6215	653.8144	1305.6375	653.3224	10
7	898.5054	449.7563	881.4783	441.2431	880.4948	440.7511	N	1226.5953	613.8013	1209.5687	605.2880	1208.5847	604.7960	9
8	1045.5738	523.2905	1028.5473	514.7773	1027.5632	514.2853	F	1112.5524	556.7798	1096.5258	548.2665	1094.5418	547.7745	8
9	1160.6008	580.8040	1143.6742	572.2907	1142.5902	571.7987	D	965.4839	483.2456	948.4574	474.7323	947.4734	474.2403	7
10	1217.6222	609.3147	1200.5957	600.8015	1199.6117	600.3095	G	850.4570	425.7321	833.4305	417.2139	832.4464	416.7269	6
11	1403.7015	702.3544	1386.6750	693.8411	1385.6910	693.3491	W	793.4355	397.2214	776.4090	388.7081	775.4250	388.2161	5
12	1550.7699	775.8886	1533.7434	767.3753	1532.7594	766.8833	F	607.3562	304.1817	590.3297	295.6685	589.3457	295.1765	4
13	1734.8911	867.9492	1717.8646	859.4359	1716.8806	858.9439	K	460.2878	230.6475	443.2613	222.1343	442.2772	221.6423	3
14	1835.9388	918.4730	1818.9123	909.9598	1817.9282	909.4678	T	276.1666	138.5870	259.1401	130.0737	258.1561	129.5817	2
15							R	175.1190	88.0631	158.0924	79.5493			1

MS/MS Fragmentation of **SGLLKALR**

Found in **F8WE41**, Nuclear cap-binding protein subunit 2 OS=Homo sapiens GN=NCBP2 PE=2 SV=1

Match to Query 3108: 1029.646328 from(515.830440,2+) intensity(9958.5732)

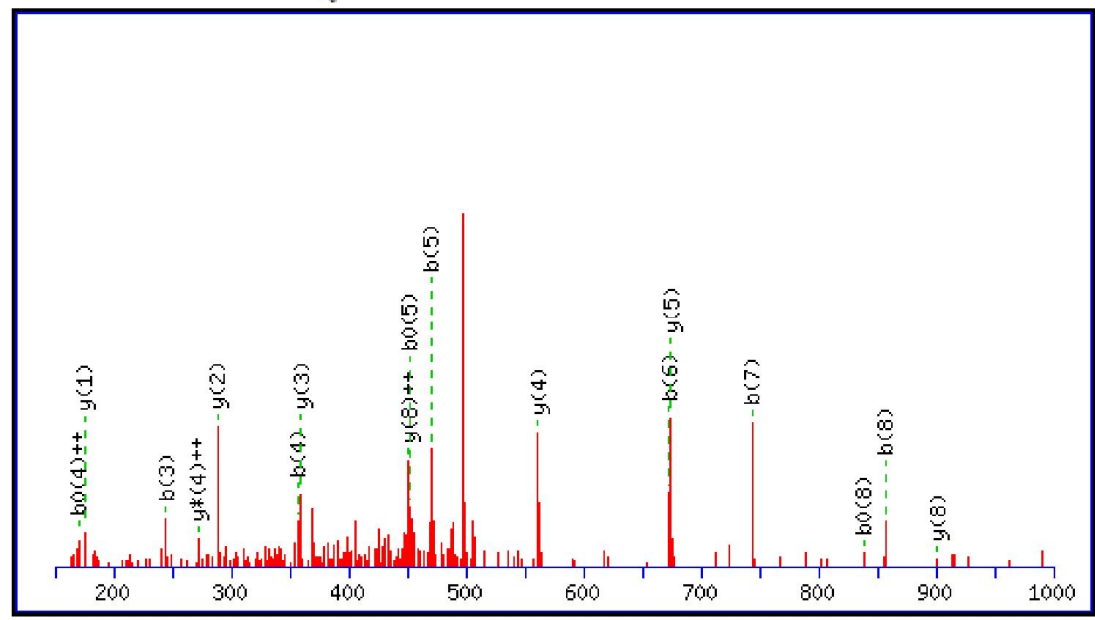
Title: File390 Spectrum12907 scans: 15436

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr2-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1029.6455

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

Variable modifications:

N-term : Acetyl (Protein N-term)

K6 : Propionyl-(13CD3)Methyl (K)

Ions Score: 36 **Expect:** 0.045

Matches : 17/70 fragment ions using 33 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	S					9
2	187.0713	94.0393			169.0608	85.0340	G	901.6102	451.3087	884.5837	442.7955	8
3	244.0928	122.5500			226.0822	113.5448	G	844.5887	422.7980	827.5622	414.2847	7
4	357.1769	179.0921			339.1663	170.0868	L	787.5673	394.2873	770.5407	385.7740	6
5	470.2609	235.6341			452.2504	226.6288	L	674.4832	337.7452	657.4567	329.2320	5
6	672.4199	336.7136	655.5934	328.2003	654.4094	327.7083	K	561.3991	281.2032	544.5726	272.6899	4
7	743.4571	372.2322	726.4305	363.7189	725.4465	363.2269	A	359.2407	180.1237	342.2136	171.6104	3
8	856.5411	428.7742	839.5146	420.2609	838.5306	419.7689	L	288.2030	144.6051	271.1765	136.0919	2
9							R	175.1190	88.0631	158.0924	79.5498	1

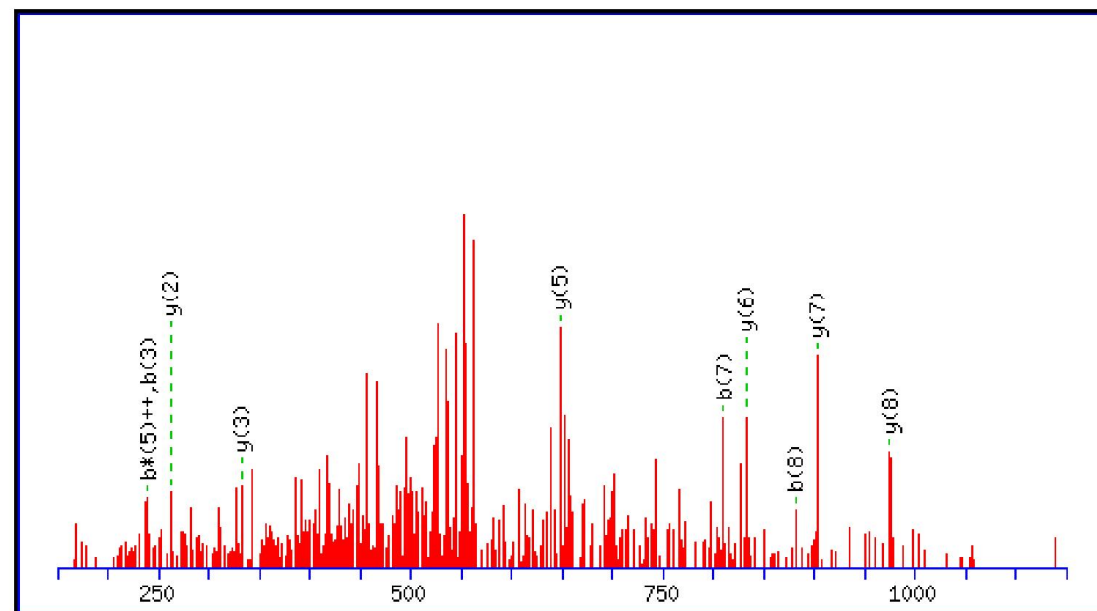
MS/MS Fragmentation of **PAAAKLKASR**Found in **A7E2D7**, E1A-binding protein p400 (Fragment) OS=Homo sapiens GN=EP400 PE=2 SV=1

Match to Query 3401: 1141.707988 from(571.861270, 2+) intensity(5912.1660)

Title: File443 Spectrum7209 scans: 8456

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-6-SW620-Kpropio-methyl-IP-Fr15-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide****Fixed modifications:** Carbamidomethyl (C)**Variable modifications:****K5** : Propionyl (K)**K7** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 35 **Expect:** 0.059**Matches** : 10/82 fragment ions using 19 mo

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	98.0600	49.5337					P							10
2	169.0972	85.0522					A	1045.6637	523.3355	1028.6371	514.8222	1027.6531	514.3302	9
3	240.1343	120.5708					A	974.6266	487.8169	957.6000	479.3037	956.6160	478.8116	8
4	311.1714	156.0893					A	903.5895	452.2984	886.5629	443.7851	885.5789	443.2931	7
5	495.2926	248.1499	478.2660	239.6366			K	832.5523	416.7798	815.5258	408.2665	814.5418	407.7745	6
6	608.3766	304.6920	591.3501	296.1787			L	648.4312	324.7192	631.4046	316.2059	630.4206	315.7139	5
7	810.5356	405.7715	793.5091	397.2582			K	535.3471	268.1772	518.3206	259.6639	517.3365	259.1719	4
8	881.5728	441.2900	864.5462	432.7767			A	333.1881	167.0977	316.1615	158.5844	315.1775	158.0924	3
9	968.6048	484.8060	951.5782	476.2928	950.5942	475.8007	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
10							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **EHYLKQKR**

Found in **B5MCA1**, Coiled-coil domain-containing protein 104 OS=Homo sapiens GN=CCDC104 PE=2 SV=1

Match to Query 3842: 1230.698708 from(616.356630,2+) intensity(78258.2266)

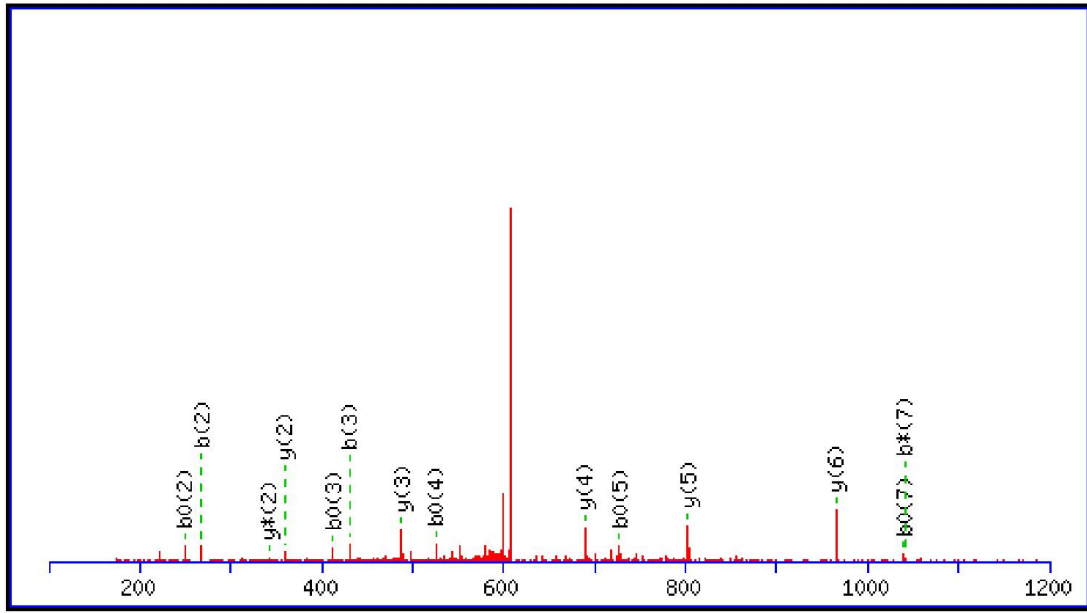
Title: File660 Spectrum4402 scans: 5486

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr3-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1230.6993

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

Variable modifications:

K5 : Propionyl-(13CD3)Methyl (K)

K7 : Propionyl (K)

Ions Score: 35 **Expect:** 0.13

Matches : 14/62 fragment ions using 21 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	K					8
2	267.1088	134.0580			249.0982	125.0527	H	1102.6640	551.8357	1085.6375	543.3224	7
3	430.1721	215.5897			412.1615	206.5844	Y	965.6051	483.3062	948.5786	474.7929	6
4	543.2562	272.1317			525.2456	263.1264	L	802.5418	401.7745	785.5152	393.2613	5
5	745.4152	373.2112	728.3886	364.6980	727.4046	364.2059	K	689.4577	345.2325	672.4312	336.7192	4
6	873.4738	437.2405	856.4472	428.7272	855.4632	428.2352	Q	487.2987	244.1530	470.2722	235.6397	3
7	1057.5949	529.3011	1040.5684	520.7878	1039.5844	520.2958	K	359.2401	180.1237	342.2136	171.6104	2
8							R	175.1190	88.0631	158.0924	79.5498	1

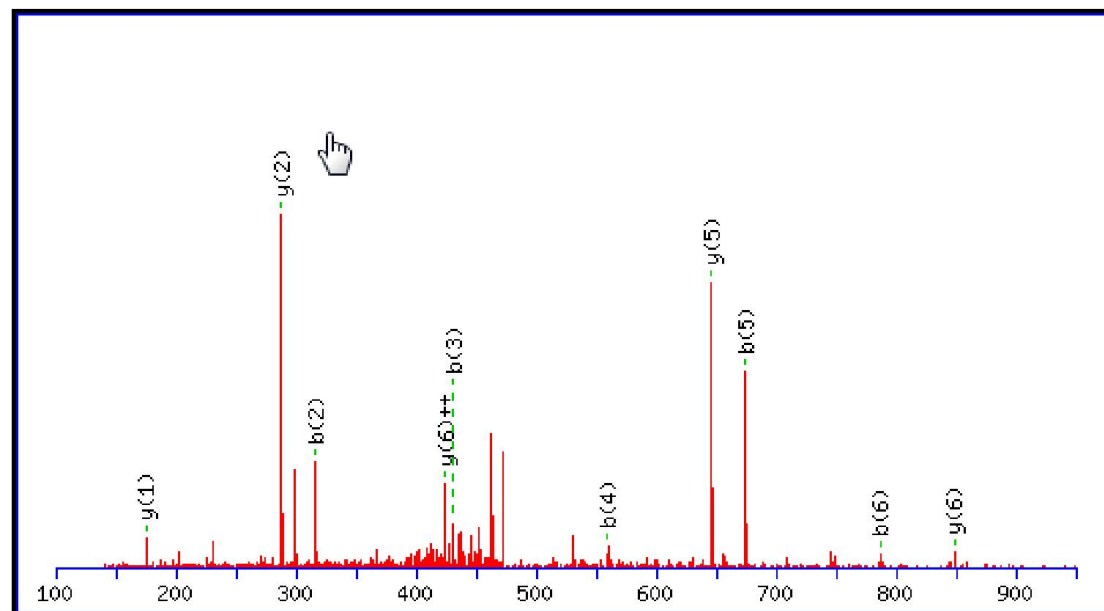
Found in **Q9UMY1**, Nucleolar protein 7 OS=Homo sapiens GN=NOL7 PE=1 SV=2

Match to Query 1545: 960.551188 from(481.282870, 2+) intensity(66393.2109)

Title: File388 Spectrum5403 scans: 6512

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 960.5513**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 35 **Expect:** 0.1**Matches** : 10/62 fragment ions using 18 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							7
2	316.2509	158.6288	299.2238	150.1155			K	848.4745	424.7409	831.4479	416.2276	830.4639	415.7356	6
3	431.2773	216.1423	414.2607	207.6290	413.2667	207.1370	D	646.3155	323.6614	629.2889	315.1481	628.3049	314.6561	5
4	559.3359	280.1716	542.3093	271.6583	541.3253	271.1663	Q	531.2885	266.1479	514.2620	257.6348	513.2780	257.1426	4
5	674.3620	337.6850	657.3363	329.1718	656.3523	328.6798	D	403.2300	202.1186	386.2034	193.6053	385.2194	193.1133	3
6	787.4459	394.2271	770.4203	385.7138	769.4363	385.2218	L	288.2030	144.6051	271.1765	136.0919			2
7							R	175.1190	88.0631	158.0924	79.5498			1

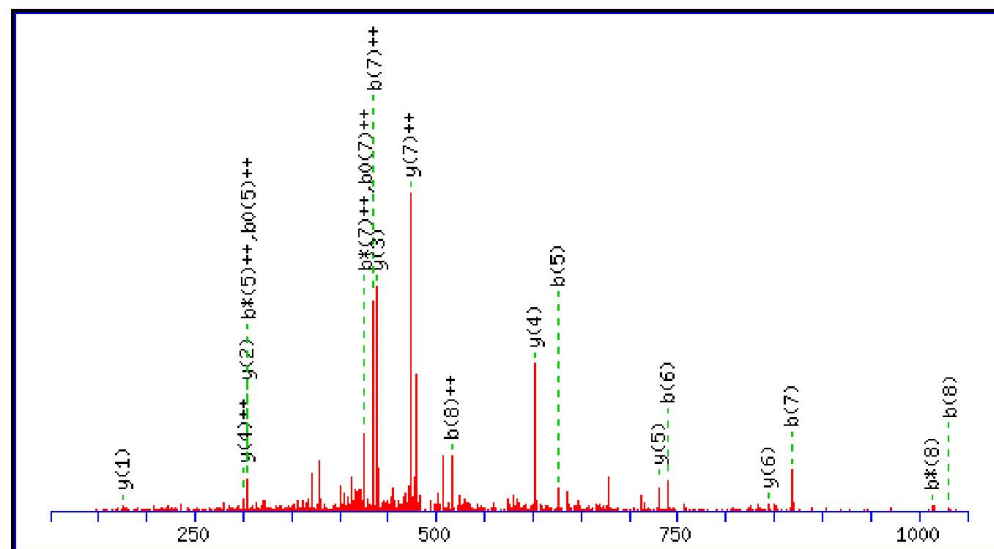
Found in BIANRO, Poly(A) binding protein, cytoplasmic 4 (Inducible form), isoform CRA_e OS=Homo sapiens GN=PABPC4 PE=2 SV=1

Match to Query 6842: 1466.783892 from(489.935240, 3+) intensity(78308.3359)

Title: File440 Spectrum6594 scans: 7697

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide $M_r(\text{calc})$:** 1466.7845**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**M9** : Label:13C(1)2H(3) (M)**Ions Score:** 35 **Expect:** 0.17**Matches** : 19/100 fragment ions using 27 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							11
2	274.2034	137.6053	257.1769	129.0921			A	1265.6328	633.3200	1248.6063	624.8068	1247.6222	624.3143	10
3	411.2623	206.1348	394.2358	197.6215			H	1194.5957	597.8015	1177.5691	589.2882	1176.5851	588.7962	9
4	524.3464	262.6768	507.3198	254.1636			L	1057.5368	529.2720	1040.5102	520.7588	1039.5262	520.2667	8
5	625.3941	313.2007	608.3675	304.6874	607.3835	304.1954	T	944.4527	472.7300	927.4262	464.2167	926.4421	463.7247	7
6	739.4370	370.2221	722.4104	361.7089	721.4264	361.2168	N	843.4050	422.2062	826.3785	413.6929			6
7	867.4956	434.2514	850.4690	425.7381	849.4850	425.2461	Q	729.3621	365.1847	712.3356	356.6714			5
8	1030.5589	515.7831	1013.5323	507.2698	1012.5483	506.7778	Y	601.3035	301.1554	584.2770	292.6421			4
9	1165.6216	583.3144	1148.5950	574.3011	1147.6110	574.3091	H	438.2402	219.6237	421.2137	211.1105			3
10	1293.6801	647.3437	1276.6536	638.3304	1275.6696	638.3384	Q	303.1775	152.0924	286.1510	143.5791			2
11							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **HLEMDAFKR**

Found in **J3KPS2**, Protein FAM83H (Fragment) OS=Homo sapiens GN=FAM83H PE=4 SV=1

Match to Query 3757: 1223.649028 from(612.831790, 2+) intensity(28718.8613)

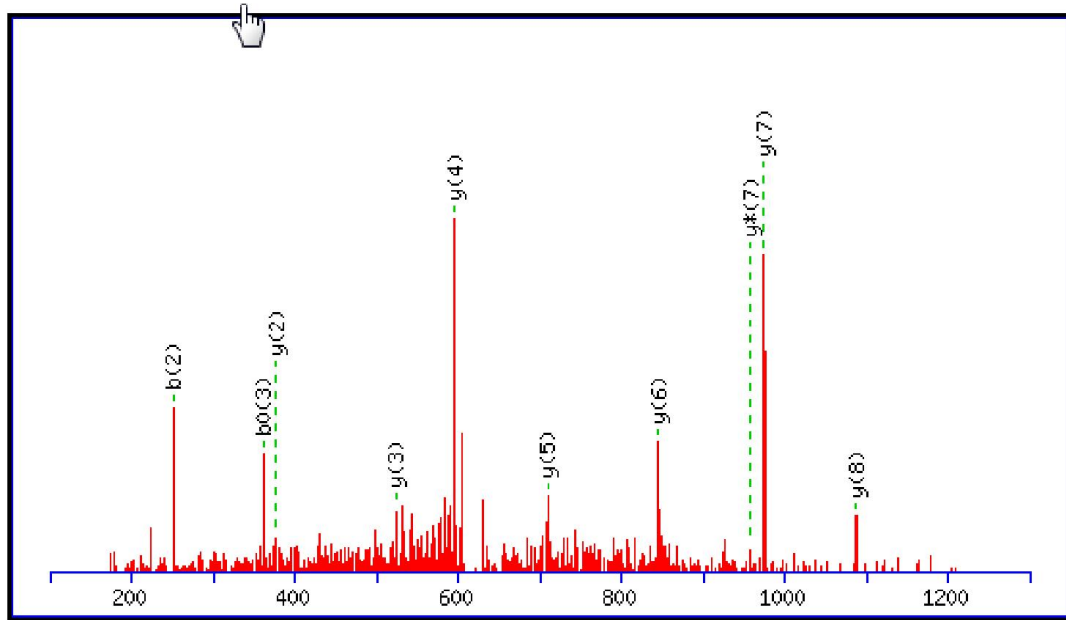
Title: File419 Spectrum9103 scans: 10628

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-06-05-SW620-Kpropio-methyl-IP-Fr9-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1223.6514

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

Variable modifications:

M4 : Label:13C(1)2H(3) (M)

K8 : Propionyl-(13CD3)Methyl (K)

Ions Score: 34 **Expect:** 0.15

Matches : 10/70 fragment ions using 22 most intense peaks [\(help\)](#)

#	b	b++	b+	b*++	b ⁰	b ⁰ ++	Seq.	y	y++	y+	y*++	y ⁰	y ⁰ ++	#
1	138.0662	69.5367					H							9
2	261.1603	126.0788					L	1087.5998	544.3035	1070.5732	535.7902	1069.5882	535.2982	8
3	380.1928	190.6001			362.1823	181.5948	E	974.5157	487.7615	957.4891	479.2482	956.5051	478.7582	7
4	515.2555	258.1314			497.2450	249.1261	K	845.4731	423.2402	828.4466	414.7269	827.4625	414.2349	6
5	630.2825	315.6449			612.2719	306.6396	D	710.4104	355.7089	693.3839	347.1956	692.3999	346.7036	5
6	701.3196	351.1634			683.3090	342.1581	A	595.3835	298.1954	578.3569	289.6821			4
7	848.3880	424.6976			830.3774	415.6923	F	524.3464	262.6768	507.3198	254.1636			3
8	1060.5470	525.7771	1033.5205	517.2639	1032.5364	516.7719	K	377.2780	189.1426	360.2514	180.6293			2
9							R	175.1190	88.0631	158.0924	79.5498			1

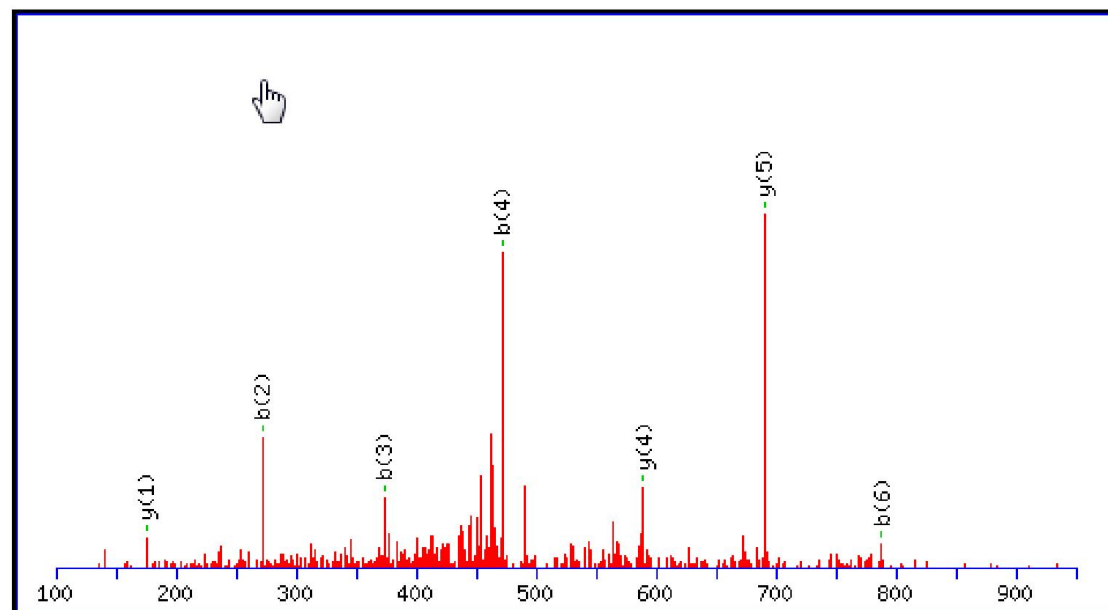
MS/MS Fragmentation of **SKTVLKR**Found in **Q9UK61**, Protein FAM208A OS=Homo sapiens GN=FAM208A PE=1 SV=3

Match to Query 1822: 960.623748 from(481.319150, 2+) intensity(19628.7578)

Title: File448 Spectrum7200 scans: 8578

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-6-SW620-Kpropio-methyl-IP-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc): 960.6240**

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

Variable modifications:

K2 : Propionyl (K)**K6** : Propionyl-(13CD3)Methyl (K)

Ions Score: 33 Expect: 0.054

Matches : 7/62 fragment ions using 8 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							7
2	273.1605	136.5839	255.1339	128.0706	254.1499	127.5786	K	874.5993	437.3033	857.5728	429.2900	856.5887	428.7980	6
3	373.2082	187.1077	356.1816	178.5944	355.1976	178.1024	T	690.4781	345.7427	673.4516	337.2294	672.4676	336.7374	5
4	473.2766	236.6419	455.2500	228.1287	454.2660	227.6366	V	589.4304	295.2189	572.4039	286.7056			4
5	585.3606	293.1840	568.3341	284.6707	567.3501	284.1787	L	490.3620	245.6847	473.3355	237.1714			3
6	787.5197	394.2635	770.4931	385.7502	769.5091	385.2582	K	377.2780	189.1426	360.2514	180.6293			2
7							R	175.1190	88.0631	158.0924	79.5498			1

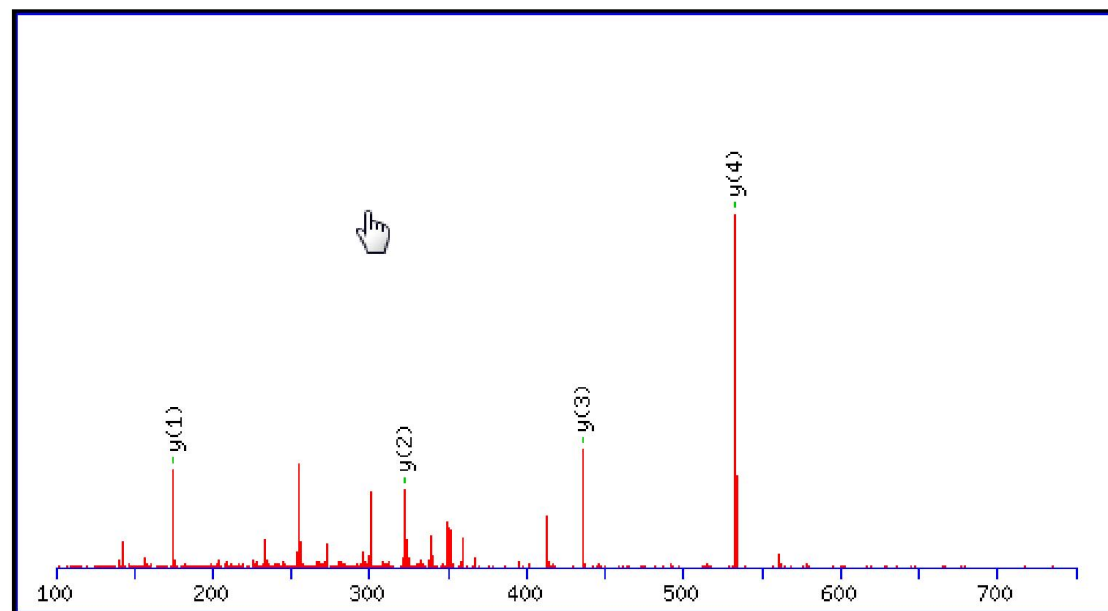
MS/MS Fragmentation of **KPLFR**Found in **Q00534**, Cyclin-dependent kinase 6 OS=Homo sapiens GN=CDK6 PE=1 SV=1

Match to Query 120: 733.476348 from(367.745450, 2+) intensity(149053.1250)

Title: File386 Spectrum10086 scans: 11335

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr14-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 733.4759**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 32 **Expect:** 0.06**Matches** : 4/32 fragment ions using 7 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	203.1663	102.0868	186.1397	93.5735	K					5
2	300.2191	150.6132	283.1925	142.0999	P	532.3242	266.6657	515.2976	258.1525	4
3	413.3031	207.1552	396.2766	198.6419	L	435.2714	218.1394	418.2449	209.6261	3
4	560.3715	280.6894	543.3450	272.1761	F	322.1874	161.5973	305.1608	153.0840	2
5					R	175.1190	88.0631	158.0924	79.5498	1

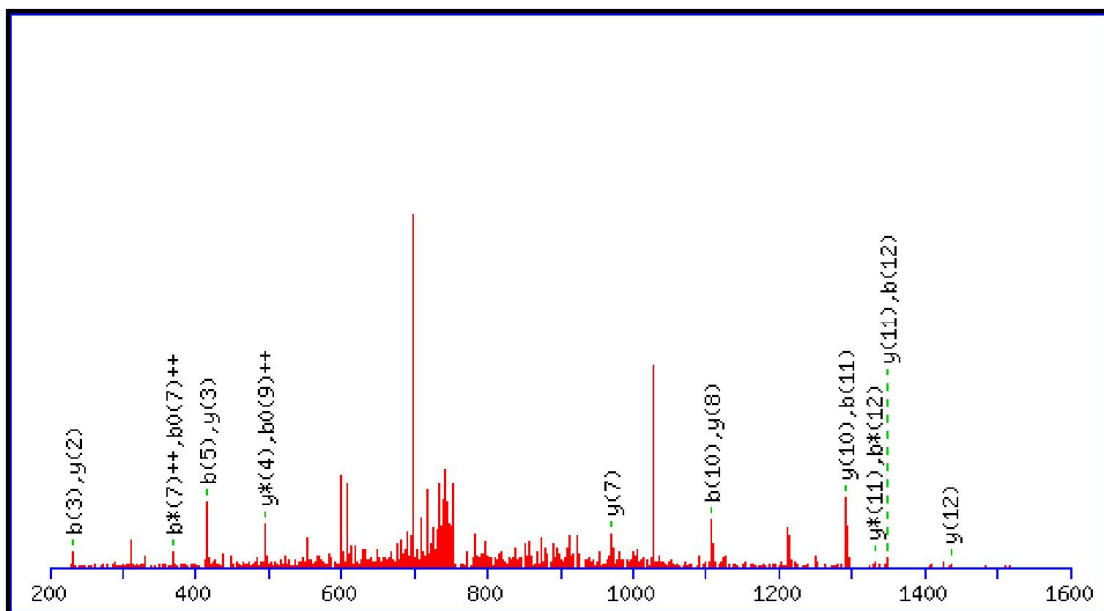
Found in **Q9P2G4**, Microtubule-associated protein 10 OS=Homo sapiens GN=MAP10 PE=1 SV=2

Match to Query 7903: 1521.887908 from(761.951230,2+) intensity(32169.0371)

Title: File660 Spectrum7847 scans: 9170

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr3-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc)**: 1521.9012Fixed modifications: Carbamidomethyl (C) (apply to specified residues or [add all](#))

Variable modifications:

K7 : Propionyl-(13CD3)Methyl (K)**K11** : Propionyl (K)

Ions Score: 31 Expect: 0.26

Matches : 18/110 fragment ions using 26 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							13
2	175.0713	88.0393			157.0608	79.0340	S	1435.8765	718.4419	1418.8499	709.9286	1417.8659	709.4366	12
3	232.0928	116.5500			214.0822	107.5448	G	1348.8445	674.9259	1331.8179	666.4126			11
4	303.1299	152.0686			285.1193	143.0633	A	1291.8230	646.4151	1274.7964	637.9019			10
5	416.2140	208.6106			398.2034	199.6053	L	1220.7859	610.8968	1203.7593	602.3833			9
6	553.2729	277.1401			535.2623	268.1348	H	1107.7018	554.3545	1090.6753	545.8413			8
7	755.4319	378.2196	738.4054	369.7063	737.4213	369.2143	K	970.6429	485.8251	953.6163	477.3118			7
8	911.5330	456.2701	894.5065	447.7569	893.5224	447.2649	R	768.4839	384.7456	751.4573	376.2323			6
9	1010.6014	505.8044	993.5749	497.2911	992.5909	496.7991	V	612.3828	306.6950	595.3562	298.1817			5
10	1107.6542	554.3307	1090.6276	545.8175	1089.6436	545.3254	P	513.3144	257.1608	496.2878	248.6475			4
11	1291.7754	646.3913	1274.7488	637.8780	1273.7648	637.3860	K	416.2616	208.6344	399.2350	200.1212			3
12	1348.7968	674.9021	1331.7703	666.3888	1330.7863	665.8968	G	232.1404	116.5738	215.1139	108.0606			2
13							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **LAGGAAIKGGR**

Found in **014979**, Heterogeneous nuclear ribonucleoprotein D-like OS=Homo sapiens GN=HNRPDL PE=1 SV=3

Match to Query 2226: 1043.634608 from(522.824580,2+) intensity(7091.7891)

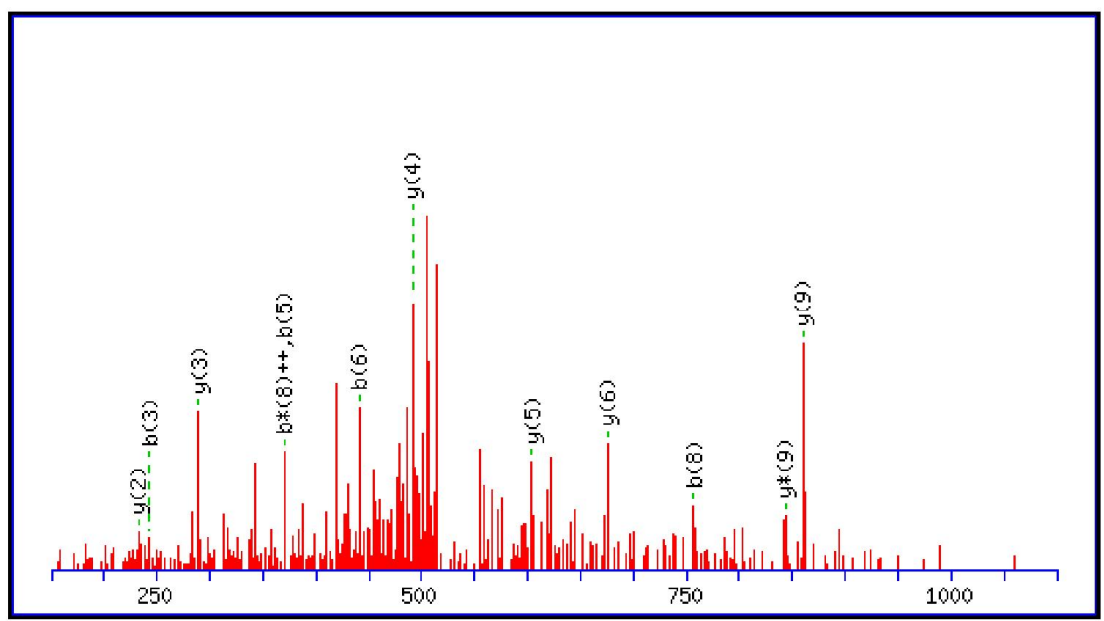
Title: File440 Spectrum6881 scans: 8006

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1043.6360
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or
Variable modifications:
K8 : Propionyl-(13CD3)Methyl (K)
Ions Score: 31 **Expect:** 0.19
Matches : 12/66 fragment ions using 26 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	114.0913	27.5493			L					11
2	185.1285	93.0679			A	931.5592	466.2833	914.5327	457.7700	10
3	242.1499	121.5786			G	860.5221	430.7647	843.4956	422.2514	9
4	299.1714	150.0893			G	803.5006	402.2540	786.4741	393.7407	8
5	370.2085	185.6079			A	746.4792	373.7432	729.4526	365.2300	7
6	441.2456	221.1264			A	675.4421	338.2247	658.4155	329.7114	6
7	554.3297	277.6685			I	604.4050	302.7061	587.3784	294.1928	5
8	756.4887	378.7480	739.4621	370.2347	K	491.3209	246.1641	474.2943	237.6508	4
9	813.5102	407.2587	796.4836	398.7454	G	289.1619	145.0846	272.1353	136.5713	3
10	870.5316	435.7694	853.5051	427.2562	G	232.1404	116.5738	215.1139	108.0606	2
11					R	175.1190	88.0631	158.0924	79.5498	1

MS/MS Fragmentation of **LGLKMANEAAAKNR**

Found in **Q96DF8**, Protein DGCR14 OS=Homo sapiens GN=DGCR14 PE=1 SV=1

Match to Query 8719: 1619.919768 from(810.967160, 2+) intensity(25497.2539)

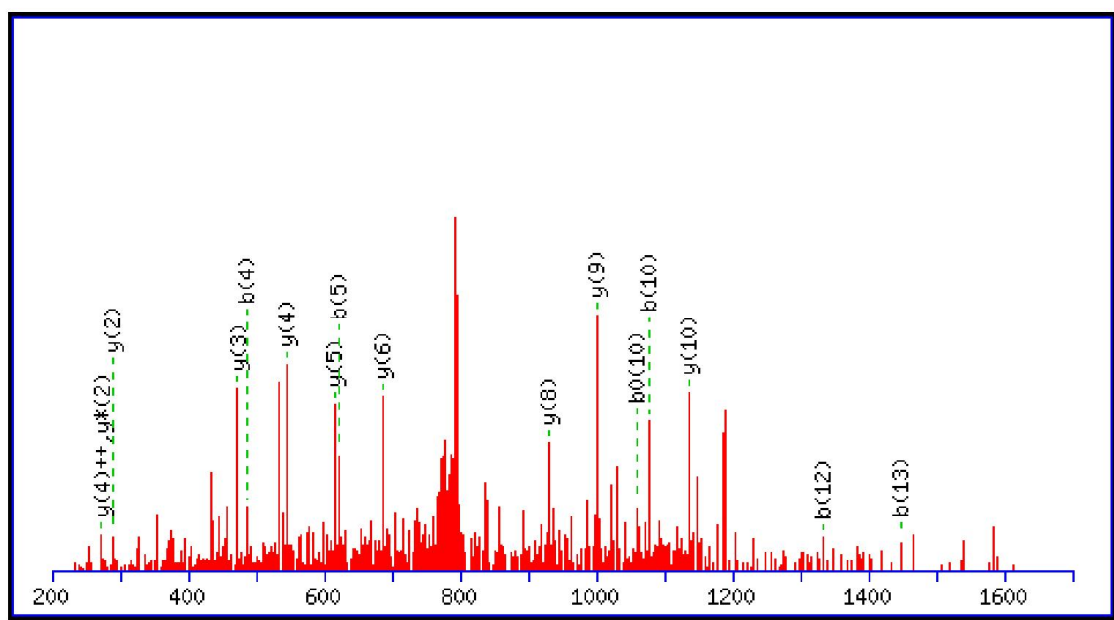
Title: File388 Spectrum11636 scans: 13203

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1619.9210

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

Variable modifications:

K4 : Propionyl-(13CD3)Methyl (K)

M5 : Label:13C(1)2H(3) (M)

K12 : Propionyl (K)

Ions Score: 31 **Expect:** 0.4

Matches : 16/124 fragment ions using 42 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							14
2	171.1128	85.0600					G	1507.8442	754.4258	1490.8177	745.9125	1489.8337	745.4205	13
3	284.1969	142.6021					L	1450.8228	725.9150	1433.7962	717.4018	1432.8122	716.9097	12
4	486.3559	243.6816	469.3293	235.1683			K	1337.7387	669.3730	1320.7122	660.8597	1319.7282	660.3677	11
5	621.4186	311.2129	604.3920	302.6996			N	1135.5797	568.2935	1118.5532	559.7802	1117.5691	559.2882	10
6	692.4557	346.7315	675.4291	338.2182			A	1008.5178	500.7622	983.4905	492.2489	982.5065	491.7569	9
7	806.4986	403.7529	789.4720	395.2397			N	929.4799	465.2436	912.4534	456.7303	911.4694	456.2383	8
8	935.5412	468.2742	918.5146	459.7610	917.5306	459.2689	E	815.4370	408.2221	798.4104	399.7089	797.4264	399.2169	7
9	1006.5783	503.7928	989.5517	495.2795	988.5677	494.7875	A	686.3944	343.7008	669.3678	335.1876			6
10	1077.6154	539.3113	1060.5889	530.7981	1059.6048	530.3061	A	615.3573	308.1823	598.3307	299.6690			5
11	1148.6525	574.8299	1131.6260	566.3166	1130.6420	565.8246	A	544.3202	272.6637	527.2936	264.1504			4
12	1332.7737	666.8905	1315.7472	658.3772	1314.7631	657.8852	K	473.2831	237.1452	456.2565	228.6319			3
13	1446.8166	723.9120	1429.7901	715.3987	1428.8061	714.9067	N	289.1679	145.0846	272.1353	136.5713			2
14							R	175.1190	88.0631	158.0924	79.5498			1

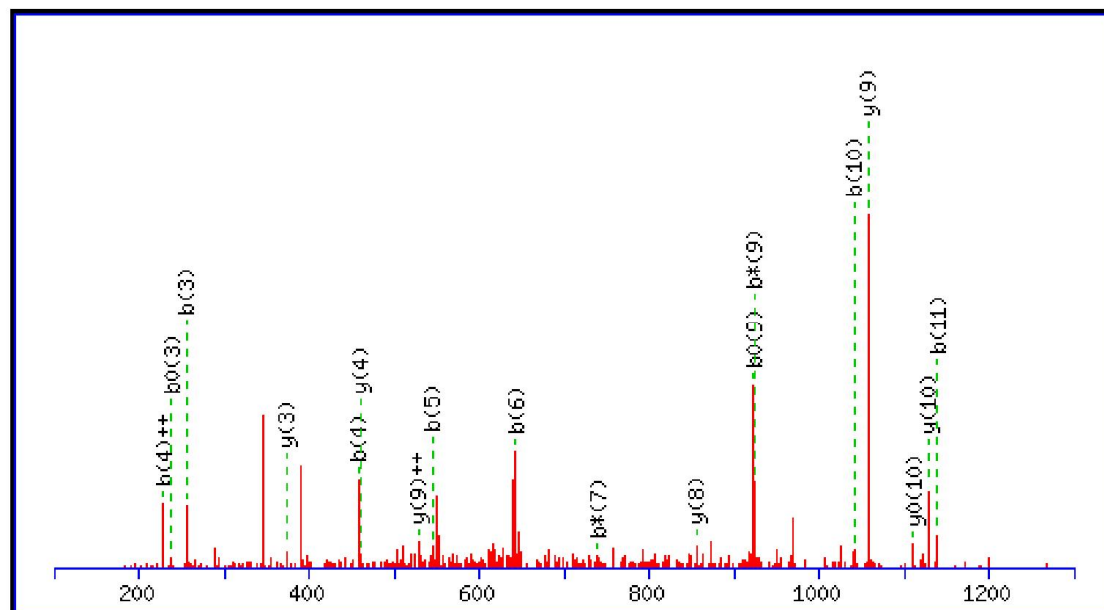
Found in **B4DJ58**, Ribosomal L1 domain-containing protein 1 OS=Homo sapiens GN=RSL1D1 PE=2 SV=1

Match to Query 4807: 1311.698208 from(656.856380, 2+) intensity(215553.1875)

Title: File440 Spectrum11498 scans: 12950

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1311.7055**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K4** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 31 **Expect:** 0.36**Matches** : 18/122 fragment ions using 44 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0593	44.5233			70.0287	35.5190	S							12
2	185.0921	93.0497			167.0815	84.0444	P	1225.6808	613.3440	1208.6542	604.3308	1207.6702	604.3388	11
3	256.1293	128.5682			238.1186	119.5629	A	1126.6280	564.8177	1111.6015	556.3044	1110.6175	555.8124	10
4	458.2882	229.6477	441.2616	221.1345	440.2776	220.6425	K	1057.5909	529.2991	1040.5644	520.7858	1039.5804	520.2938	9
5	545.3202	273.1637	528.2937	264.6505	527.3097	264.1585	S	855.4319	428.2196	838.4054	419.7063	837.4213	419.2143	8
6	642.3730	321.6901	625.3464	313.1769	624.3624	312.6848	P	768.3999	384.7036	751.3733	376.1903	750.3893	375.6983	7
7	756.4159	378.7116	739.3594	370.1983	738.4053	369.7063	N	671.3471	336.1772	654.3206	327.6639	653.3365	327.1719	6
8	853.4687	427.2380	836.4421	418.7247	835.4581	418.2327	P	557.3042	279.1557	540.2776	270.6425	539.2936	270.1504	5
9	940.5007	470.7540	923.4742	462.2407	922.4901	461.7487	S	460.2514	230.6293	443.2249	222.1161	442.2409	221.6241	4
10	1041.5484	521.2778	1024.5218	512.7646	1023.5378	512.2725	T	373.2194	187.1133	356.1928	178.6001	355.2088	178.1081	3
11	1138.6011	569.8042	1121.5746	561.2909	1120.5906	560.7989	P	272.1717	136.5895	255.1452	128.0762			2
12							R	175.1190	88.0631	158.0924	79.5498			1

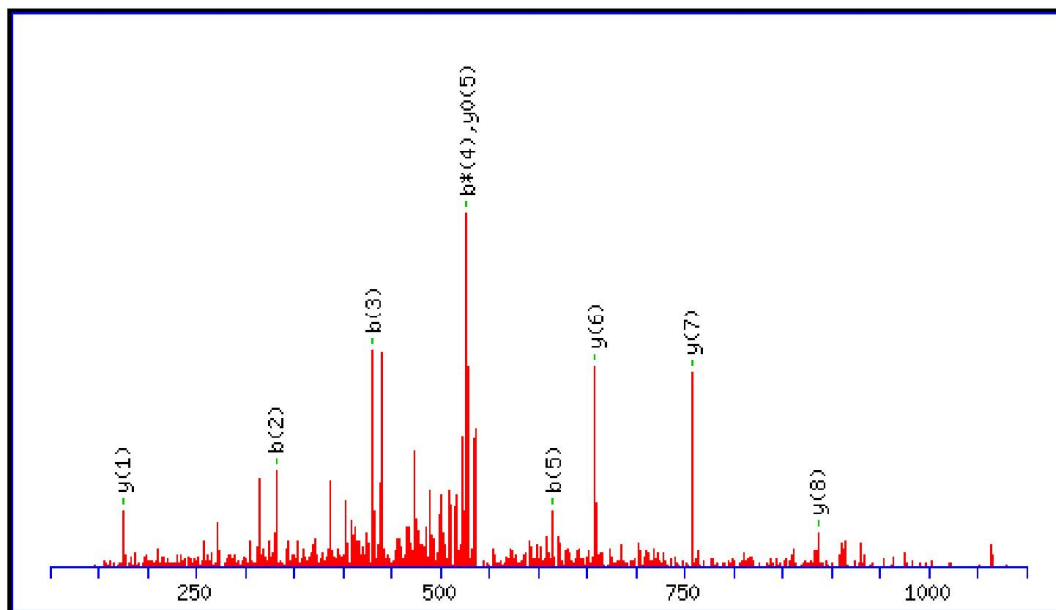
Found in **E9PKK0**, 182 kDa tankyrase-1-binding protein OS=Homo sapiens GN=TNKS1BP1 PE=2 SV=1

Match to Query 2973: 1087.614968 from(544.814760,2+) intensity(31439.4707)

Title: File388 Spectrum6427 scans: 7617

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1087.6146**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 30 **Expect:** 0.39**Matches** : 9/92 fragment ions using 10 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							9
2	332.2089	166.6981	315.1823	158.0948	314.1983	157.6028	E	886.4629	443.7351	869.4363	435.2218	868.4523	434.7298	8
3	431.2773	216.1423	414.2507	207.6290	413.2667	207.1370	V	757.4203	379.2138	740.3937	370.7005	739.4097	370.2085	7
4	544.3614	272.6843	527.3348	264.1710	526.3508	263.6790	L	658.3519	329.6796	641.3253	321.1663	640.3413	320.6743	6
5	615.3985	308.2029	598.3719	299.4996	597.3879	299.1976	A	545.2678	273.1375	528.2413	264.6243	527.2572	264.1323	5
6	702.4305	351.7189	685.4040	343.2056	684.4199	342.7136	S	474.2307	237.6190	457.2041	229.1057	456.2201	228.6137	4
7	799.4833	400.2453	782.4567	391.7320	781.4727	391.2400	P	387.1987	194.1030	370.1721	185.5897	369.1881	185.0977	3
8	914.6102	457.7537	897.4837	449.2455	896.4996	448.7535	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
9							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **KHLHTHGPR**

Found in **P25490**, Transcriptional repressor protein YY1 OS=Homo sapiens GN=YY1 PE=1 SV=2

Match to Query 3002: 1155.653548 from(578.834050,2+) intensity(4199.0898)

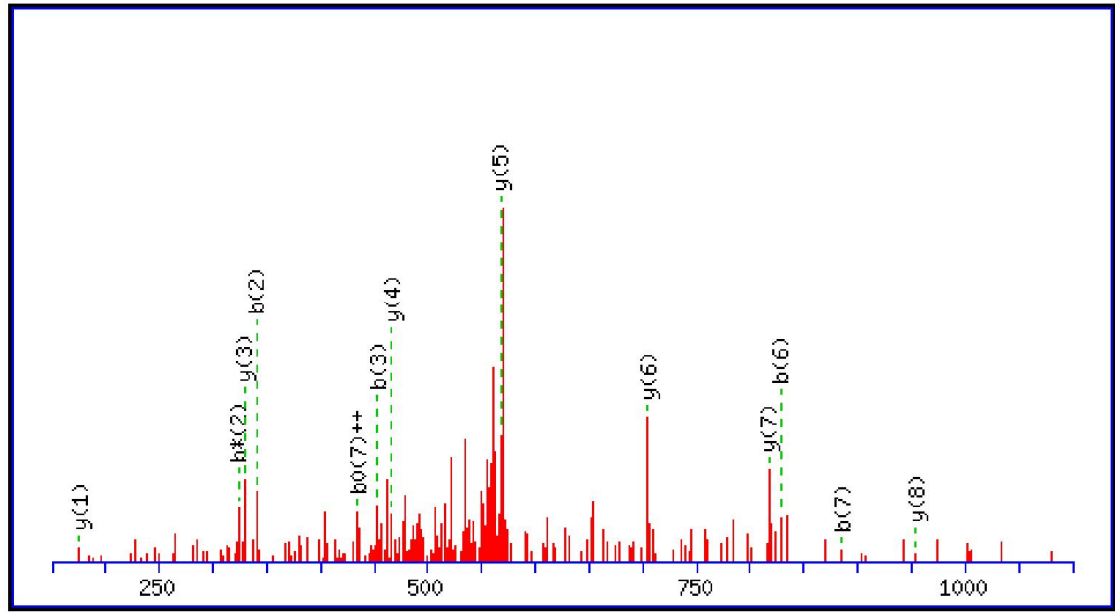
Title: File660 Spectrum373 scans: 902

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr3-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1155.6534

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 30 **Expect:** 0.43

Matches : 13/80 fragment ions using 45 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							9
2	340.2252	170.6162	323.1987	162.1030			H	954.5017	477.7545	937.4751	469.2412	936.4911	468.7492	8
3	453.3093	227.1583	436.2827	218.6450			L	817.4427	409.2250	800.4162	400.7117	799.4322	400.2197	7
4	590.3682	295.6877	573.3416	287.1745			H	704.3587	352.6830	687.3321	344.1637	686.3481	343.6777	6
5	691.4159	346.2116	674.3893	337.6983	673.4053	337.2063	T	567.2998	284.1535	550.2732	275.6402	549.2892	275.1482	5
6	828.4748	414.7410	811.4482	406.2277	810.4642	405.7357	H	466.2521	233.6297	449.2255	225.1164			4
7	885.4962	443.2518	868.4697	434.7385	867.4857	434.2465	G	329.1932	165.1002	312.1666	156.5870			3
8	982.5490	491.7781	965.5224	483.2649	964.5384	482.7729	P	272.1717	136.5895	256.1452	128.0762			2
9							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **AGGEPWGAKKPR**

Found in **E5RHJ4**, DBIRD complex subunit KIAA1967 (Fragment) OS=Homo sapiens GN=KIAA1967 PE=2 SV=1

Match to Query 6455: 1382.759128 from(692.386840, 2+) intensity(46311.7227)

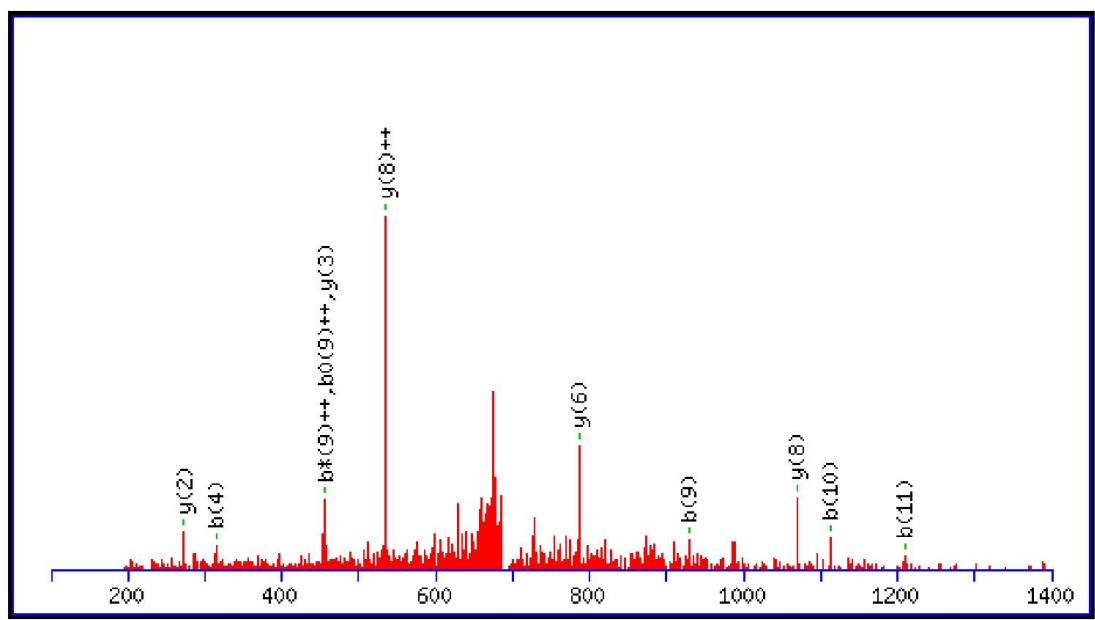
Title: File394 Spectrum11304 scans: 12692

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1382.7579

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

Variable modifications:

K9 : Propionyl-(13CD3)Methyl (K)

K10 : Propionyl (K)

Ions Score: 29 Expect: 0.55

Matches : 11/94 fragment ions using 12 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁰⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁰⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							12
2	129.0689	65.0386					G	1312.7281	656.3877	1236.7015	648.3844	1294.7175	647.9824	11
3	186.0873	93.5473					G	1255.7066	628.3569	1238.6801	619.8437	1237.6961	619.3517	10
4	315.1299	158.0636			297.1193	149.0633	E	1198.6852	599.8462	1181.6586	591.3329	1180.6746	590.8409	9
5	412.1827	206.5950			394.1721	197.5897	P	1069.6426	535.3249	1052.6160	526.8116			8
6	538.2620	299.6346			530.2514	290.6293	W	972.5898	486.7985	956.5632	478.2853			7
7	655.2835	328.1454			637.2729	319.1401	G	786.5105	393.7589	769.4839	385.2456			6
8	726.3206	363.6639			708.3100	354.6586	A	729.4890	365.2481	712.4625	356.7349			5
9	928.4796	464.7439	911.4530	456.2302	910.4690	455.7331	K	658.4519	329.7296	641.4254	321.2163			4
10	1112.6908	556.8040	1095.5742	548.2907	1094.5902	547.7937	K	456.2929	228.6501	439.2653	220.1368			3
11	1209.6535	605.3304	1192.6270	596.8171	1191.6430	596.3251	P	272.1717	136.5895	255.1452	123.0762			2
12							R	175.1190	88.0631	158.0924	79.5498			1

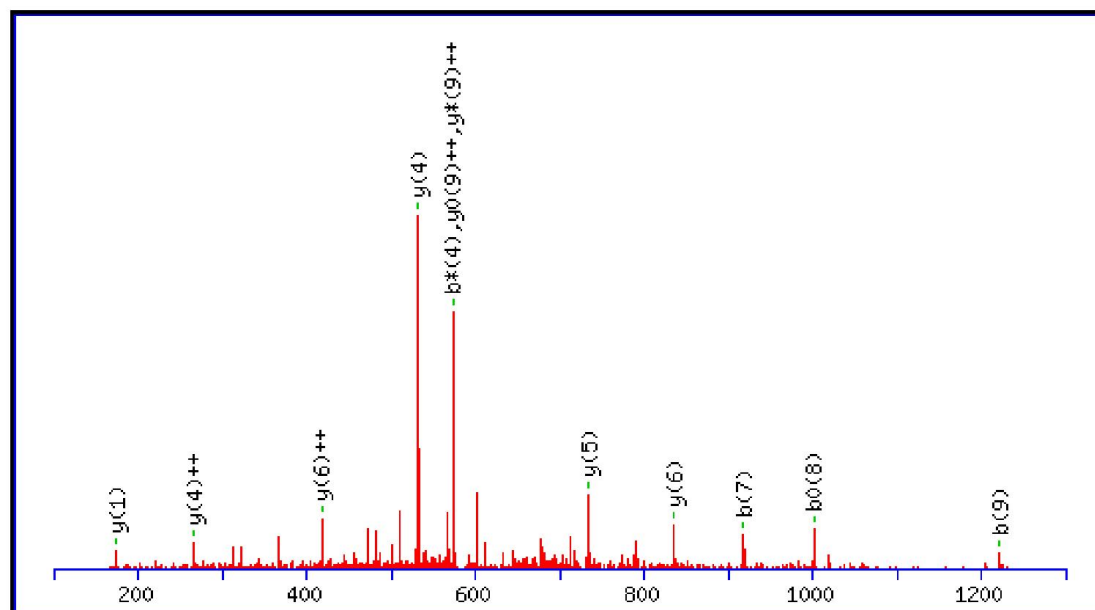
Found in **P54277**, PMS1 protein homolog 1 OS=Homo sapiens GN=PMS1 PE=1 SV=1

Match to Query 11054: 1751.948322 from(584.990050, 3+) intensity(88685.5859)

Title: File386 Spectrum14227 scans: 15755

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr14-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(cal****Fixed modifications:** Carbamidomethyl (C) (appl**Variable modifications:****K2** : Propionyl (K)**K9** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 29 **Expect:** 0.73**Matches** : 12/134 fragment ions using 11 most int

#	b	b ⁺⁺	b*	b* ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y* ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							13
2	298.2125	149.6099	281.1860	141.0966			K	1639.8810	820.4441	1622.8545	811.9309	1621.8704	811.4389	12
3	461.2758	231.1416	444.2493	222.6283			Y	1455.7598	728.3836	1438.7333	719.8703	1437.7493	719.3783	11
4	590.3184	295.6629	573.2919	287.1496	572.3079	286.6576	E	1292.6965	646.8519	1275.6700	638.3386	1274.6859	637.8466	10
5	719.3610	360.1842	702.3345	351.6709	701.3505	351.1789	E	1163.6539	582.3306	1146.6274	573.8173	1145.6433	573.3253	9
6	847.4560	424.2316	830.4294	415.7184	829.4454	415.2264	K	1034.6113	517.8093	1017.5848	509.2960	1016.6008	508.8040	8
7	918.4931	459.7502	901.4666	451.2369	900.4825	450.7449	A	906.5164	453.7618	889.4898	445.2485	888.5058	444.7565	7
8	1019.5408	510.2740	1002.5142	501.7608	1001.5302	501.2688	T	835.4792	418.2433	818.4527	409.7300	817.4687	409.2380	6
9	1221.6998	611.3535	1204.6733	602.8403	1203.6892	602.3483	K	734.4316	367.7194	717.4050	359.2061	716.4210	358.7141	5
10	1336.7267	668.8670	1319.7002	660.3537	1318.7162	659.8617	D	532.2726	266.6399	515.2460	258.1266	514.2620	257.6346	4
11	1449.8108	725.4090	1432.7843	716.8958	1431.8002	716.4038	L	417.2456	209.1264	400.2191	200.6132	399.2350	200.1212	3
12	1578.8534	789.9303	1561.8269	781.4171	1560.8428	780.9251	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
13							R	175.1190	88.0631	158.0924	79.5498			1

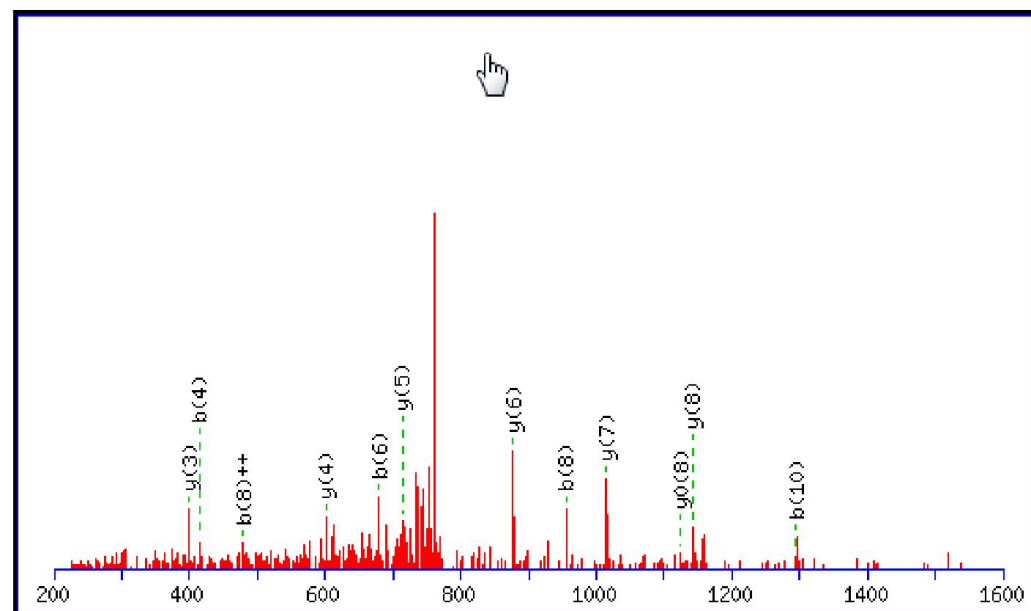
MS/MS Fragmentation of **SAAKQHYLKHSR**Found in **Q9UPZ9**, Serine/threonine-protein kinase ICK OS=Homo sapiens GN=ICK PE=1 SV=1

Match to Query 9041: 1555.858008 from(778.936280, 2+) intensity(28214.5996)

Title: File394 Spectrum5163 scans: 6065

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1554.8539**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K4** : Propionyl (K)**K9** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 29 **Expect:** 0.69**Matches** : 12/124 fragment ions using 27 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							12
2	159.0764	80.0418			141.0659	71.0366	A	1468.8292	734.9182	1451.8026	726.4050	1450.8186	725.9130	11
3	230.1135	115.5604			212.1030	106.5551	A	1397.7921	699.3997	1380.7655	690.8864	1379.7815	690.3944	10
4	414.2347	207.6210	397.2082	199.1077	396.2241	198.6157	K	1326.7550	663.8811	1309.7284	655.3678	1308.7444	654.8758	9
5	542.2933	271.6503	525.2667	263.1370	524.2827	262.6450	Q	1142.6338	571.8205	1125.6072	563.3073	1124.6232	562.8152	8
6	679.3522	340.1797	662.3257	331.6665	661.3416	331.1745	H	1014.5752	507.7912	997.5487	499.2780	996.5646	498.7860	7
7	842.4155	421.7114	825.3890	413.1981	824.4050	412.7061	Y	877.5163	439.2618	860.4897	430.7485	859.5057	430.2565	6
8	955.4996	478.2534	938.4730	469.7402	937.4890	469.2482	L	714.4530	357.7301	697.4264	349.2168	696.4424	348.7248	5
9	1157.6586	579.3329	1140.6321	570.8197	1139.6480	570.3277	K	601.3689	301.1881	584.3424	292.6748	583.3583	292.1828	4
10	1294.7175	647.8624	1277.6910	639.3491	1276.7070	638.8571	H	399.2099	200.1086	382.1833	191.5953	381.1993	191.1033	3
11	1381.7495	691.3784	1364.7230	682.8651	1363.7390	682.3731	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
12							R	175.1190	88.0631	158.0924	79.5498			

MS/MS Fragmentation of **LKAQKEDDVACSR**

Found in **Q93075**, Putative deoxyribonuclease TATDN2 OS=Homo sapiens GN=TATDN2 PE=1 SV=2

Match to Query 8928: 1648.836148 from(825.425350,2+) intensity(22388.1328)

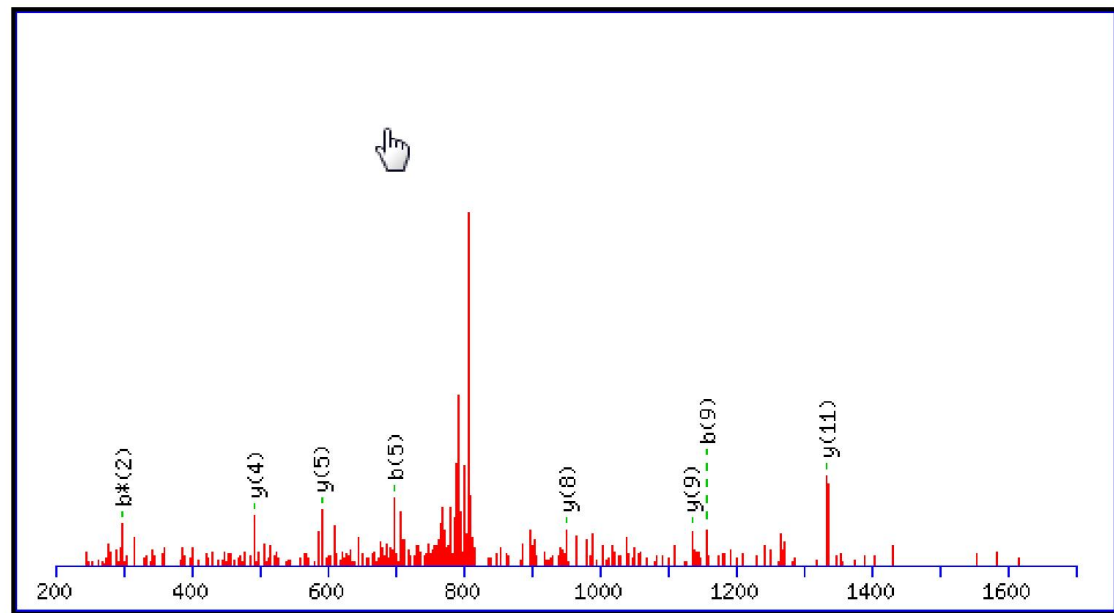
Title: File386 Spectrum7499 scans: 8557

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr14-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 164

Fixed modifications: Carbamidomethyl (C) (apply to spe

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K5 : Propionyl (K)

Ions Score: 29 Expect: 0.63

Matches : 8/130 fragment ions using 13 most intense peak

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							13
2	316.2504	158.6288	299.2238	150.1155			K	1536.7595	768.8834	1519.7330	760.3701	1518.7490	759.8781	12
3	387.2875	194.1474	370.2609	185.6341			A	1334.6005	667.8039	1317.5740	659.2906	1316.5899	658.7986	11
4	515.3460	258.1767	498.3195	249.6634			Q	1283.5634	632.2853	1246.5368	623.7721	1245.5528	623.2801	10
5	699.4672	350.2372	682.4407	341.7240			K	1135.5048	568.2560	1118.4783	559.7428	1117.4942	559.2508	9
6	828.5098	414.7585	811.4833	406.2453	810.4993	405.7533	E	951.3836	476.1955	934.3571	467.6822	933.3731	467.1902	8
7	943.5368	472.2720	926.5102	463.7587	925.5262	463.2667	D	822.3410	411.6742	805.3145	403.1609	804.3305	402.6689	7
8	1058.5637	529.7855	1041.5372	521.2722	1040.5531	520.7802	D	707.3141	354.1607	690.2876	345.6474	689.3035	345.1554	6
9	1157.6321	579.3197	1140.6056	570.8064	1139.6216	570.3144	V	592.2872	296.6472	575.2606	288.1339	574.2766	287.6419	5
10	1228.6692	614.8383	1211.6427	606.3250	1210.6587	605.8330	A	493.2187	247.1130	476.1922	238.5997	475.2082	238.1077	4
11	1388.6999	694.8536	1371.6733	686.3403	1370.6893	685.8483	C	422.1816	211.5945	405.1551	203.0812	404.1711	202.5892	3
12	1475.7319	738.3696	1458.7054	729.8563	1457.7213	729.3643	S	282.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
13							R	175.1190	88.0631	158.0924	79.5498			1

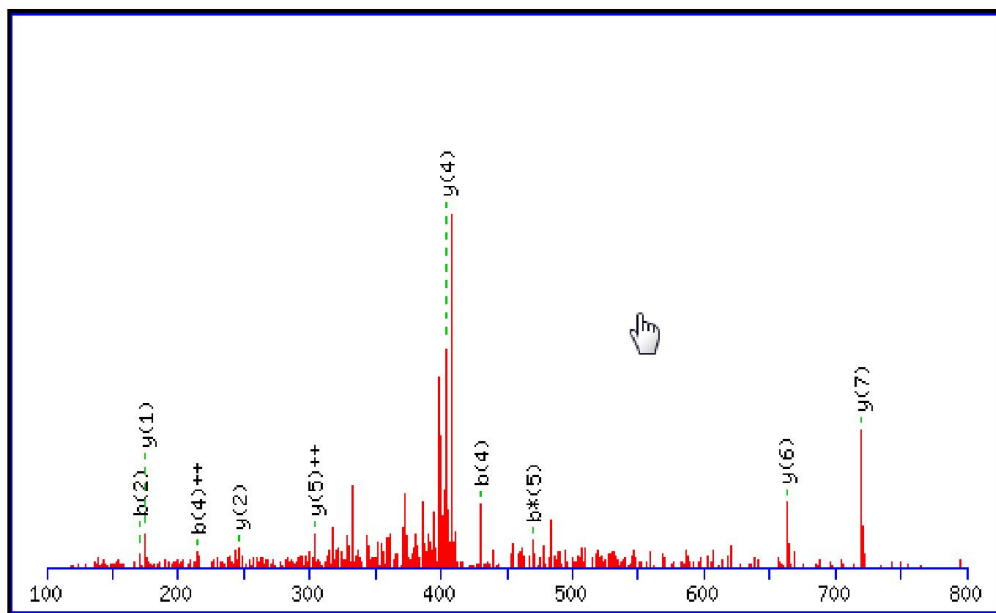
MS/MS Fragmentation of **IGGKGTAR**Found in **P20290-2**, Isoform 2 of Transcription factor BTF3 OS=Homo sapiens GN=BTF3

Match to Query 619: 832.503828 from(417.259190, 2+) intensity(15790.2529)

Title: File649 Spectrum3146 scans: 3856

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr20-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 832.5039**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K4** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 28 **Expect:** 0.41**Matches :** 10/64 fragment ions using 21 most intense peaks[\(help\)](#)

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					I							8
2	171.1128	86.0600					G	720.4272	360.7172	703.4006	352.2039	702.4166	351.7119	7
3	228.1343	114.5708					G	663.4057	332.2065	646.3791	323.6932	645.3951	323.2012	6
4	430.2933	215.6503	413.2667	207.1370			K	606.3842	303.6957	589.3577	295.1825	588.3737	294.6905	5
5	487.3147	244.1610	470.2882	235.6477			G	404.2252	202.6162	387.1987	194.1030	386.2146	193.6110	4
6	588.3624	294.6849	571.3359	286.1716	570.3519	285.6796	T	347.2037	174.1055	330.1772	165.5922	329.1932	165.1002	3
7	659.3995	330.2034	642.3730	321.6901	641.3890	321.1981	A	246.1561	123.5817	229.1295	115.0684			2
8							R	175.1190	88.0631	153.0924	79.5498			1

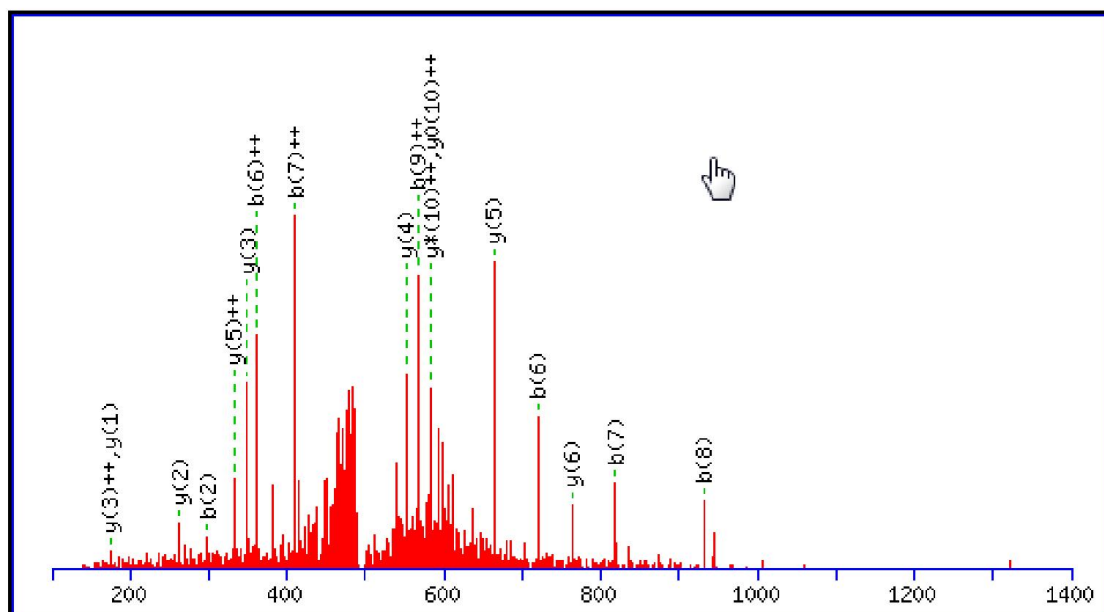
Found in **Q9BW04**, Specifically androgen-regulated gene protein OS=Homo sapiens GN=SARG PE=1 SV=2

Match to Query 6945: 1480.923672 from(494.648500, 3+) intensity(42679.0820)

Title: File671 Spectrum12897 scans: 14294

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$

Fixed modifications: Carbamidomethyl (C) (apply

Variable modifications:

K1 : Propionyl (K)

K9 : Propionyl-(13CD3)Methyl (K)

Ions Score: 28 Expect: 0.17

Matches : 17/112 fragment ions using 29 most inten

#	b	b ⁺⁺	b ⁺	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							12
2	298.2125	149.6099	281.1360	141.0966			L	1297.8111	649.4092	1230.7845	640.8959	1279.3005	640.4039	11
3	395.2653	198.1363	378.2387	189.6230			P	1184.7270	592.8671	1167.7005	584.3539	1166.7165	583.8619	10
4	492.3180	246.6627	475.2915	238.1494			P	1087.6743	544.3408	1070.6477	535.8275	1069.6637	535.3355	9
5	606.3610	303.6841	589.3344	295.1709			N	990.6215	495.8144	973.5949	487.3011	972.6109	486.8091	8
6	719.4450	360.2262	702.4185	351.7129			I	876.5786	438.7929	859.5520	430.2796	858.5680	429.7876	7
7	818.5135	409.7604	801.4869	401.2471			V	763.4945	382.2509	746.4680	373.7376	745.4839	373.2456	6
8	931.5975	466.3024	914.5710	457.7891			L	664.4261	332.7167	647.3995	324.2034	646.4155	323.7114	5
9	1133.7565	567.3819	1116.7300	558.8686			K	551.3420	276.1746	534.3155	267.6614	533.3315	267.1694	4
10	1220.7886	610.8979	1203.7620	602.3846	1202.7780	601.8926	S	349.1830	175.0951	332.1565	166.5819	331.1724	166.0899	3
11	1307.8206	654.4139	1290.7940	645.9007	1289.8100	645.4086	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
12							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **MHILKGSPNVIPR**

Found in **J3KPA2**, TM2 domain containing 1, isoform CRA_c OS=Homo sapiens GN=TM2D1 PE=4 SV=1

Match to Query 9200: 1538.919408 from(770.466980,2+) intensity(488869.7813)

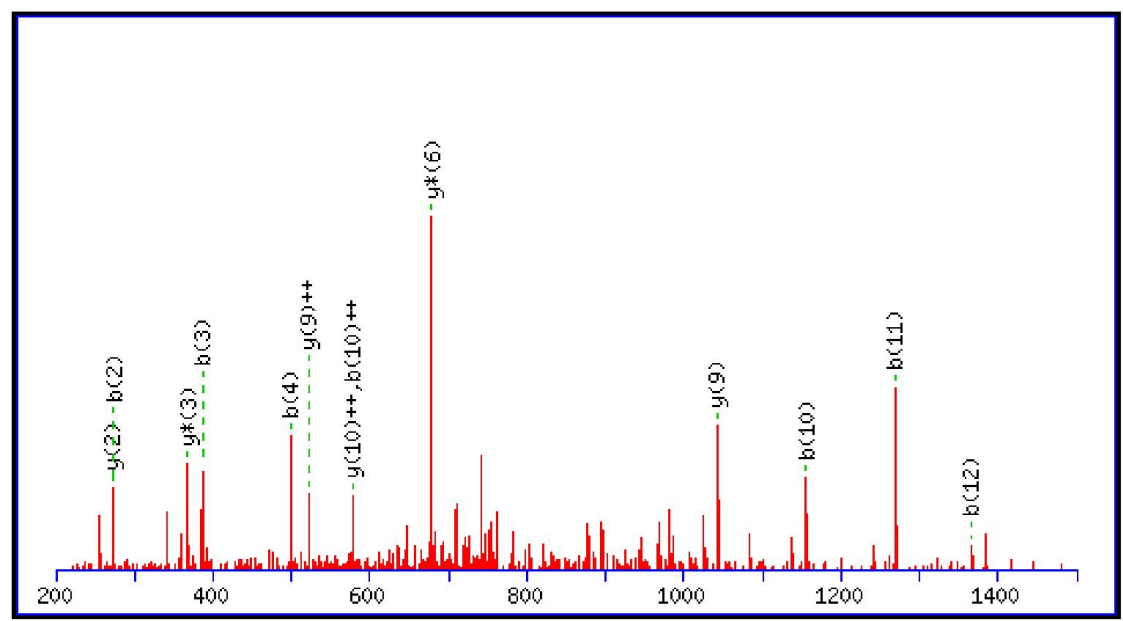
Title: File392 Spectrum20433 scans: 22592

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr6-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1538.91
Fixed modifications: Carbamidomethyl (C) (apply to specific...)
Variable modifications:
M1 : Label:13C(1)2H(3) (M)
K5 : Propionyl-(13CD3)Methyl (K)
Ions Score: 28 **Expect:** 0.44
Matches : 13/112 fragment ions using 26 most intense peaks

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	136.0699	68.5386					H							13
2	273.1289	137.0681					H	1404.8594	702.9334	1387.8329	694.4201	1386.8489	693.9281	12
3	386.2129	193.6101					I	1267.8005	634.4039	1250.7740	625.8906	1249.7900	625.3986	11
4	499.2970	250.1521					L	1154.7165	577.8619	1137.6899	569.3486	1136.7059	568.8566	10
5	701.4560	351.2316	684.4294	342.7184			K	1041.6324	521.3198	1024.6058	512.8066	1023.6218	512.3146	9
6	758.4775	379.7424	741.4509	371.2291			G	839.4734	420.2403	822.4468	411.7271	821.4628	411.2350	8
7	845.5095	423.2584	828.4829	414.7451	827.4989	414.2531	S	782.4519	391.7296	765.4254	383.2163	764.4413	382.7243	7
8	942.5623	471.7848	925.5357	463.2715	924.5517	462.7795	P	695.4199	348.2136	678.3933	339.7003			6
9	1056.6052	528.8062	1039.5785	520.2930	1038.5946	519.8009	N	598.3671	299.6872	581.3406	291.1739			5
10	1155.6736	578.3404	1138.6470	569.8272	1137.6630	569.3352	V	484.3242	242.6657	467.2976	234.1525			4
11	1268.7577	634.8825	1251.7311	626.3692	1250.7471	625.8772	I	385.2558	193.1315	368.2292	184.6183			3
12	1365.8104	683.4089	1348.7839	674.8956	1347.7999	674.4036	P	272.1717	136.5895	255.1452	128.0762			2
13							R	175.1190	88.0631	158.0924	79.5498			1

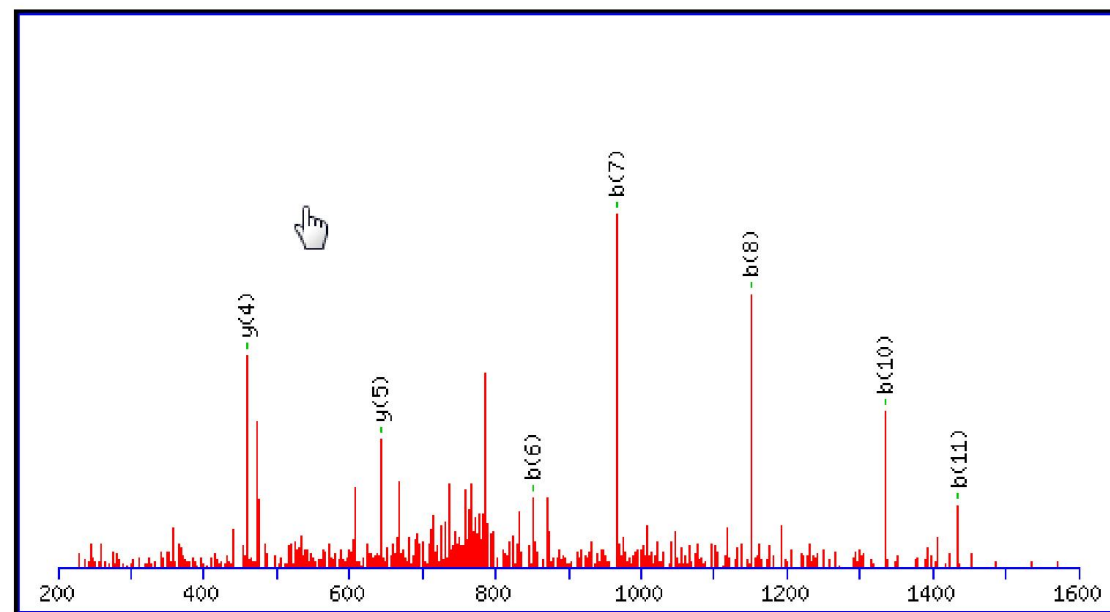
Found in **HOY4X3**, RNA-binding protein 39 (Fragment) OS=Homo sapiens GN=RBM39 PE=4 SV=1

Match to Query 8528: 1606.913308 from(804.463930, 2+) intensity(38880.4023)

Title: File388 Spectrum11051 scans: 12579

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1606.9224

Fixed modifications: Carbamidomethyl (C) (apply to s

Variable modifications:

N-term : Propionyl-(13CD3)Methyl (Protein N-term)

K6 : Propionyl-(13CD3)Methyl (K)

K8 : Propionyl (K)

Ions Score: 27 Expect: 0.8

Matches : 7/118 fragment ions using 14 most intense pe

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	162.1034	81.5553			144.0928	72.5500	S							12
2	249.1354	125.0713			231.1248	116.0660	S	1446.8336	723.9204	1429.8071	715.4072	1428.8230	714.9152	11
3	346.1881	173.5977			328.1776	164.5924	P	1359.8016	680.4044	1342.7750	671.8912	1341.7910	671.3991	10
4	493.2566	247.1319			475.2460	238.1266	F	1262.7488	631.8780	1245.7223	623.3648	1244.7383	622.8728	9
5	649.3577	325.1825	632.3311	316.6692	631.3471	316.1772	R	1115.6804	558.3438	1098.6539	549.8306	1097.6698	549.3386	8
6	851.5167	426.2620	834.4901	417.7487	833.5061	417.2567	K	959.5793	480.2933	942.5527	471.7800	941.5687	471.2880	7
7	966.5436	483.7755	949.5171	475.2622	948.5831	474.7702	D	757.4203	379.2138	740.3937	370.7005	739.4097	370.2085	6
8	1150.6648	575.8360	1133.6383	567.3228	1132.6542	566.8308	K	642.3933	321.7003	625.3668	313.1870	624.3828	312.6950	5
9	1237.6968	619.3521	1220.6703	610.8388	1219.6863	610.3468	S	458.2722	229.6397	441.2456	221.1264	440.2616	220.6344	4
10	1334.7496	667.8784	1317.7230	659.3652	1316.7390	658.8732	P	371.2401	186.1237	354.2136	177.6104			3
11	1433.8180	717.4126	1416.7915	708.8994	1415.8074	708.4074	V	274.1874	137.5973	257.1608	129.0840			2
12							R	175.1190	88.0631	158.0924	79.5498			1

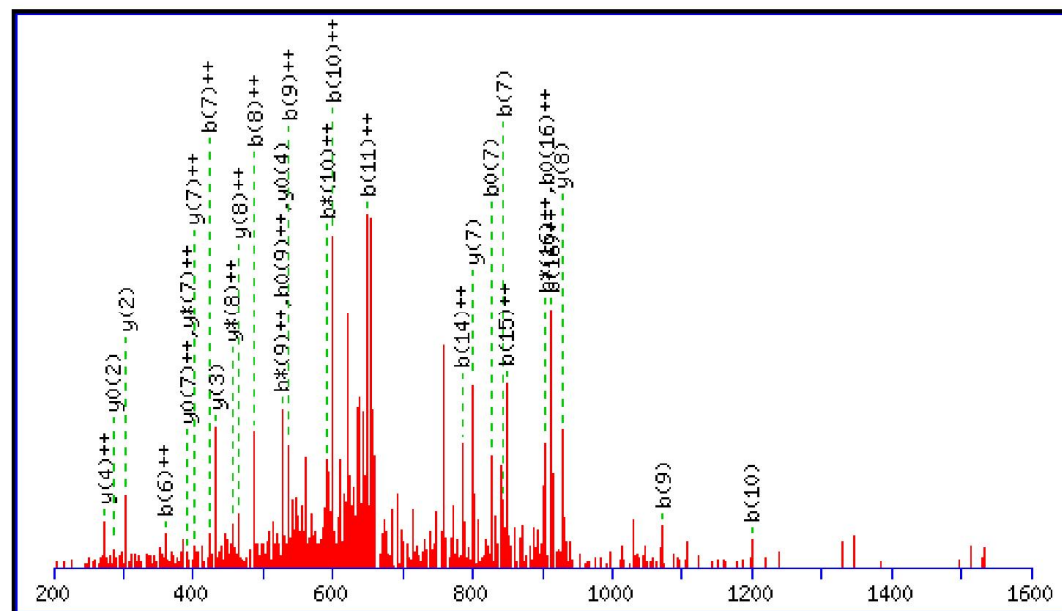
MS/MS Fragmentation of **VLEDGKQVQVVLQER**Found in **E9PB70**, Kinesin-like protein KIF2A OS=Homo sapiens GN=KIF2A PE=2 SV=1

Match to Query 13898: 1998.088572 from(667.036800, 3+) intensity(7883.1938)

Title: File669 Spectrum7002 scans: 8134

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr1-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1998.1019**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues o**Variable modifications:****K6** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 27 **Expect:** 1.3**Matches** : 30/176 fragment ions using 74 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					Y							17
2	213.1598	107.0835					L	1900.0407	950.5240	1883.0142	942.0107	1882.0301	941.5187	16
3	342.2023	171.6048			324.1918	162.5995	E	1786.9566	893.9820	1769.9301	885.4687	1768.9461	884.9767	15
4	457.2293	229.1183			439.2187	220.1130	D	1657.9140	829.4607	1640.8875	820.9474	1639.9035	820.4554	14
5	514.2508	257.6290			496.2402	248.6237	G	1542.8871	771.9472	1525.8606	763.4339	1524.8765	762.9419	13
6	716.4098	358.7095	699.3832	350.1952	698.3992	349.7032	K	1485.8656	743.4365	1468.8391	734.9232	1467.8551	734.4312	12
7	844.4683	422.2378	827.4418	414.2245	826.4578	413.7325	Q	1283.7066	642.3570	1266.6801	633.8437	1265.6961	633.3517	11
8	972.5269	486.7671	955.5004	478.2538	954.5164	477.7618	Q	1155.6480	578.3277	1138.6215	569.8144	1137.6375	569.3224	10
9	1071.5953	536.3013	1054.5688	527.7880	1053.5848	527.2960	Y	1027.5895	514.2984	1010.5629	505.7851	1009.5789	505.2931	9
10	1199.6539	600.3306	1182.6274	591.8173	1181.6434	591.3253	Q	928.5211	464.7642	911.4945	456.2509	910.5105	455.7589	8
11	1298.7223	649.8648	1281.6958	641.3515	1280.7118	640.8595	Y	800.4625	400.7349	783.4359	392.2216	782.4519	391.7296	7
12	1397.7907	699.3990	1380.7642	690.3857	1379.7802	690.3937	Y	701.3941	351.2007	684.3675	342.6874	683.3835	342.1954	6
13	1454.8122	727.9097	1437.7857	719.3965	1436.8016	718.9045	G	602.3257	301.6665	585.2991	293.1532	584.3151	292.6612	5
14	1567.8963	784.4518	1550.8697	775.9385	1549.8857	775.4465	L	545.3042	273.1557	528.2776	264.8425	267.2936	264.1504	4
15	1695.9548	848.4811	1678.9283	839.9678	1677.9443	839.4758	Q	432.2201	216.6137	415.1936	208.1004	414.2096	207.6084	3
16	1824.9974	913.0024	1807.9709	904.4891	1806.9869	903.9971	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
17							R	175.1190	88.0631	158.0924	79.5498			1

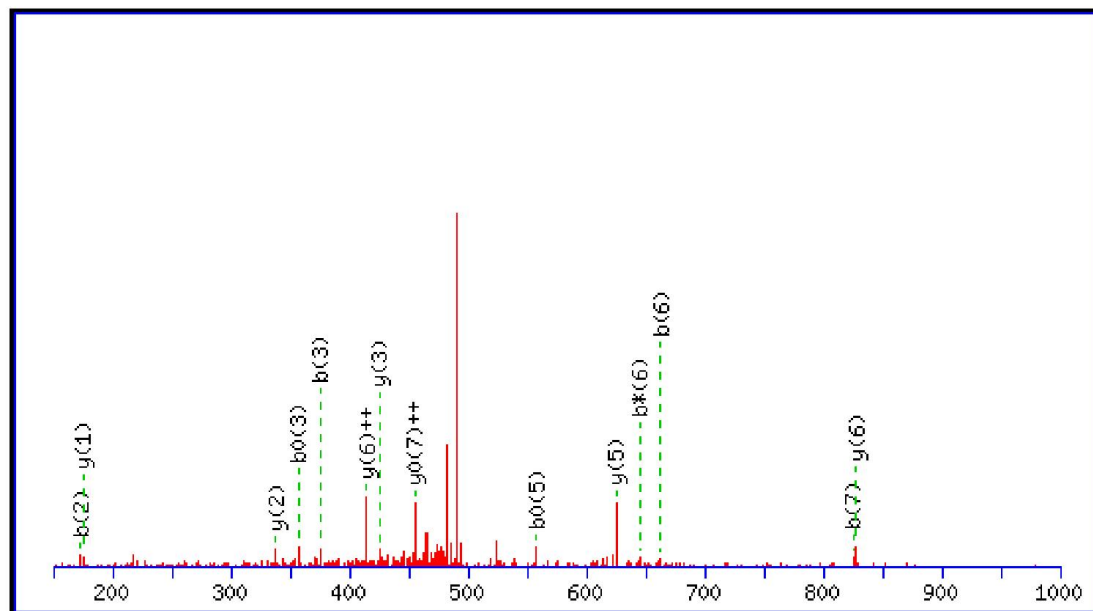
MS/MS Fragmentation of **ATKTVSYR**Found in **Q8N8U2**, Chromodomain Y-like protein 2 OS=Homo sapiens GN=CDYL2 PE=1 SV=2

Match to Query 1110: 998.567168 from(500.290860, 2+) intensity(14889.3145)

Title: File667 Spectrum2963 scans: 4199

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr18-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 998.5669**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K3** : Propionyl-(13C³)Methyl (K)**Ions Score:** 26 **Expect:** 0.88**Matches** : 14/74 fragment ions using 32 most

#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							8
2	173.0921	87.0497			155.0815	78.0444	T	928.5371	464.7722	911.5105	456.2589	910.5265	455.7669	7
3	375.2511	188.1292	358.2245	179.6159	357.2405	179.1239	K	827.4894	414.2483	810.4629	405.7351	809.4788	405.2431	6
4	476.2988	238.6530	459.2722	230.1397	458.2882	229.6477	T	625.3304	313.1688	608.3039	304.6556	607.3198	304.1636	5
5	575.3672	288.1812	558.3406	279.6740	557.3566	279.1819	V	524.2827	262.6450	507.2562	254.1317	506.2722	253.6397	4
6	662.3992	331.7032	645.3727	323.1900	644.3886	322.6980	S	425.2143	213.1108	408.1878	204.5975	407.2037	204.1055	3
7	825.4625	413.2349	808.4360	404.7216	807.4520	404.2296	Y	338.1823	169.5948	321.1557	161.0815			2
8							R	175.1190	88.0631	158.0924	79.5498			1

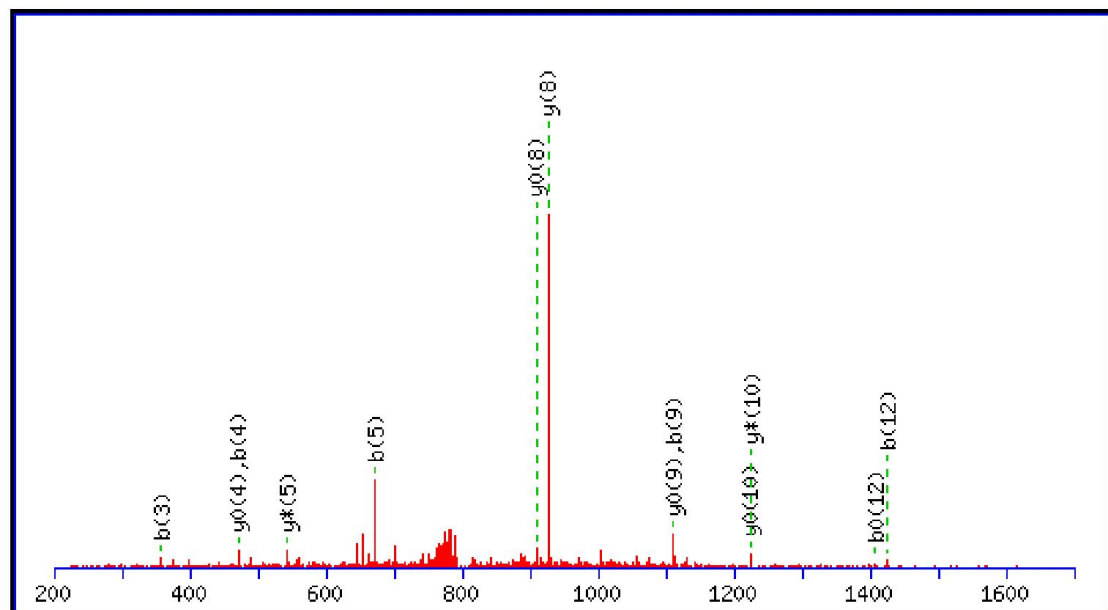
MS/MS Fragmentation of **EDLLKYFGAQSVR**Found in **A8K1C9**, RNA-binding protein 40 OS=Homo sapiens GN=RNPC3 PE=2 SV=1

Match to Query 8475: 1598.867888 from(800.441220, 2+) intensity(49615.4648)

Title: File671 Spectrum11798 scans: 13122

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, to DaLabel all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1598.8577****Fixed modifications:** Carbamidomethyl (C) (apply to specific)**Variable modifications:****K5** : Propionyl-(13CD3)Methyl (K)**Ions Score: 24 Expect: 2.1****Matches : 13/132 fragment ions using 14 most intense peaks**

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	E							13
2	245.0768	123.0420			227.0662	114.0368	D	1470.8224	735.9148	1453.7958	727.4016	1452.8118	726.9095	12
3	358.1609	179.5841			340.1503	170.5788	L	1355.7954	678.4014	1338.7689	669.8881	1337.7849	669.3961	11
4	471.2449	236.1261			453.2344	227.1208	L	1242.7114	621.8593	1225.6848	613.3460	1224.7008	612.8540	10
5	673.4040	337.2056	656.3774	328.6923	655.3934	328.2003	K	1129.6273	565.3173	1112.6008	556.8040	1111.6167	556.3120	9
6	836.4673	418.7373	819.4407	410.2240	818.4567	409.7320	F	927.4683	464.2378	910.4417	455.7245	909.4577	455.2325	8
7	983.5357	492.2715	966.5091	483.7582	965.5251	483.2662	Y	764.4050	382.7061	747.3764	374.1928	746.3944	373.7008	7
8	1040.5572	520.7822	1023.5306	512.2689	1022.5466	511.7769	G	617.3366	309.1719	600.3100	300.6586	599.3260	300.1666	6
9	1111.5943	556.3008	1094.5677	547.7875	1093.5837	547.2955	A	560.3151	280.6612	543.2885	272.1479	542.3045	271.6559	5
10	1239.6529	620.3801	1222.6263	611.8168	1221.6423	611.3248	Q	489.2780	245.1426	472.2514	236.6293	471.2674	236.1373	4
11	1326.6849	663.8461	1309.6583	655.3328	1308.6743	654.8408	S	361.2194	181.1133	344.1928	172.6001	343.2088	172.1081	3
12	1425.7533	713.3803	1408.7267	704.8670	1407.7427	704.3750	V	274.1874	137.5973	257.1608	129.0840			2
13							R	175.1190	88.0631	158.0924	79.5498			1

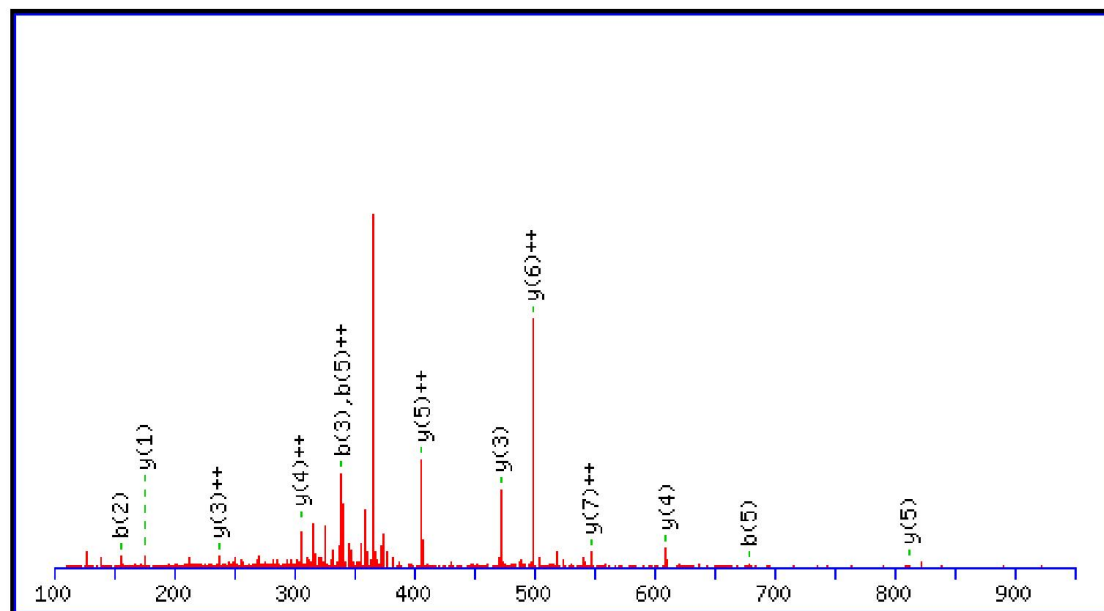
Found in **P62701**, 40S ribosomal protein S4, X isoform OS=Homo sapiens GN=RPS4X PE=1 SV=2

Match to Query 3780: 1148.730162 from(383.917330, 3+) intensity(57175.6484)

Title: File394 Spectrum6552 scans: 7614

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring**Monoisotopic mass of neutral peptide Mr(calc):** 1148.7302**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or +)**Variable modifications:****K3** : Propionyl (K)**K4** : Propionyl-(13CD3)Methyl (K)**K7** : Propionyl (K)**Ions Score:** 24 **Expect:** 0.63**Matches** : 13/52 fragment ions using 25 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	58.0287	29.5180			G					8
2	155.0815	78.0444			P	1092.7161	546.8617	1075.6895	538.3484	7
3	339.2027	170.1050	322.1761	161.5917	K	995.6633	498.3353	978.6367	489.8220	6
4	541.3617	271.1845	524.3351	262.6712	K	811.5421	406.2747	794.5156	397.7614	5
5	678.4206	339.7139	661.3941	331.2007	H	609.3831	305.1952	592.3566	296.6819	4
6	791.5047	396.2560	774.4781	387.7427	L	472.3242	236.6657	455.2976	228.1525	3
7	975.6258	488.3166	958.5993	479.8033	K	359.2401	180.1237	342.2136	171.6104	2
8					R	175.1190	88.0631	158.0924	79.5498	1

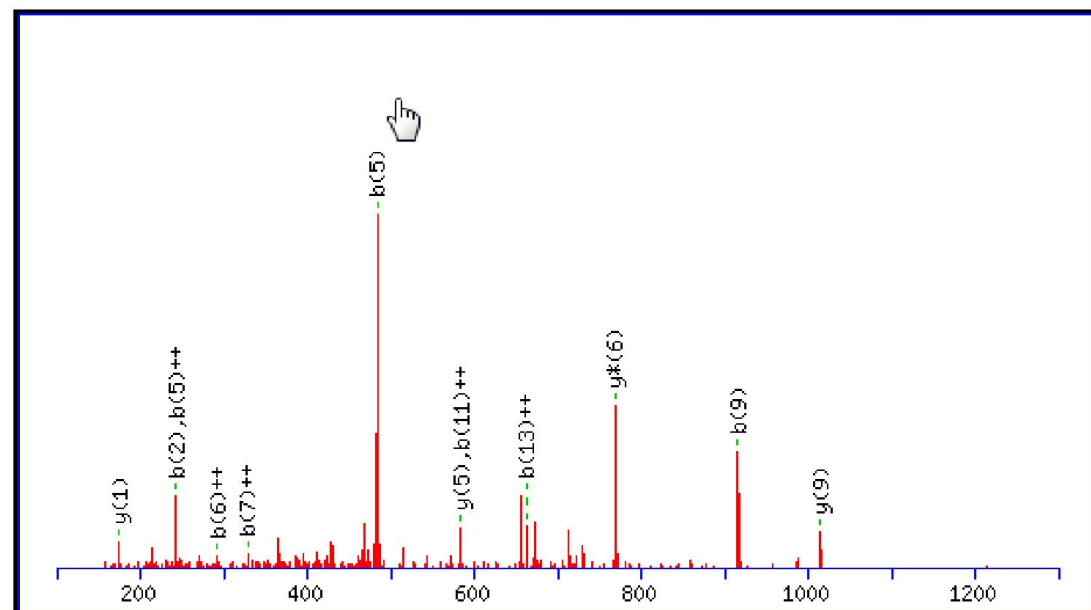
MS/MS Fragmentation of **ELIGATAGKLHTGR**Found in **F8W943**, Argininosuccinate lyase (Fragment) OS=Homo sapiens GN=ASL PE=2 SV=1

Match to Query 8650: 1496.860992 from(499.960940, 3+) intensity(332980.7813)

Title: File392 Spectrum16961 scans: 18761

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc)**: 1496.8584

Fixed modifications: Carbamidomethyl (C) (apply to specified residue)

Variable modifications:

K9 : Propionyl-(13CD3)Methyl (K)

Ions Score: 24 Expect: 1.8

Matches : 12/136 fragment ions using 19 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	E							14
2	243.1339	122.0705			225.1234	113.0653	L	1368.8230	684.9152	1351.7965	676.4019	1350.8125	675.9099	13
3	356.2180	178.6126			338.2074	169.6074	I	1255.7390	628.3731	1238.7124	619.8599	1237.7294	619.3678	12
4	413.2395	207.1234			395.2289	198.1181	G	1142.6549	571.8311	1125.6284	563.3178	1124.6444	562.8258	11
5	484.2766	242.6419			466.2660	233.6366	A	1085.6335	543.3204	1068.6069	534.8071	1067.6229	534.3151	10
6	585.3243	293.1658			567.3137	284.1605	T	1014.5963	507.8018	997.5698	499.2885	996.5858	498.7965	9
7	656.3614	328.6843			638.3508	319.6790	A	913.5487	457.2780	896.5221	448.7647	895.5381	448.2727	8
8	713.3828	357.1951			695.3723	348.1898	G	842.5115	421.7594	825.4850	413.2461	824.5010	412.7541	7
9	915.5418	458.2746	898.5153	449.7613	897.5313	449.2693	K	785.4901	393.2487	768.4635	384.7354	767.4795	384.2434	6
10	1028.6259	514.8166	1011.5994	506.3033	1010.6153	505.8113	L	583.3311	292.1692	566.3045	283.6559	565.3205	283.1639	5
11	1165.6848	583.3460	1148.6583	574.8328	1147.6743	574.3408	H	470.2470	235.6271	453.2205	227.1139	452.2364	226.6219	4
12	1266.7325	633.8699	1249.7060	625.3566	1248.7219	624.8646	T	333.1888	167.0977	316.1615	158.5844	315.1775	158.0924	3
13	1323.7540	662.3806	1306.7274	653.8673	1305.7434	653.3753	G	232.1404	116.5738	215.1139	108.0606			2
14							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **YIKLRTGKTR**

Found in **H0YE88**, Transcriptional enhancer factor TEF-1 OS=Homo sapiens GN=TEAD1 PE=2 SV=1

Match to Query 5693: 1364.841408 from(683.427980, 2+) intensity(20136.0137)

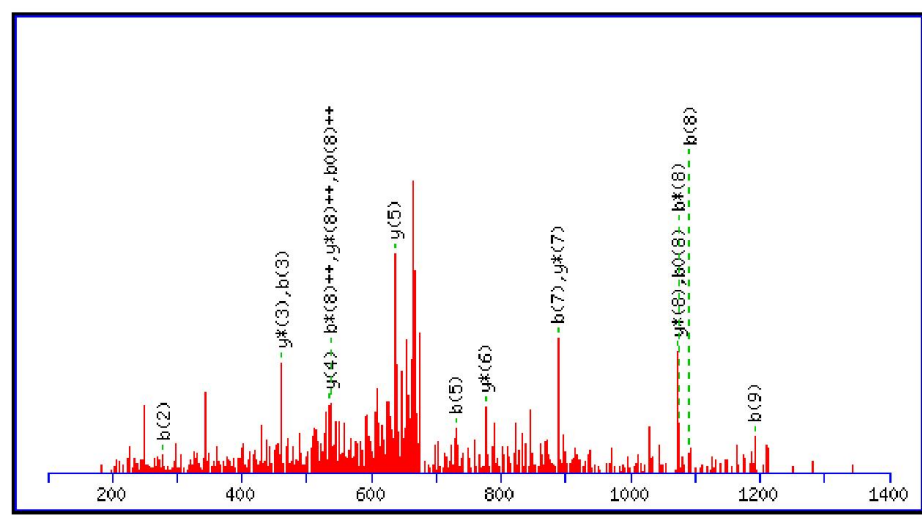
Title: File388 Spectrum7434 scans: 8701

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1364.8412

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

Variable modifications:

K3 : Propionyl (K)

K8 : Propionyl-(13CD3)Methyl (K)

Ions Score: 22 **Expect:** 1

Matches : 17/92 fragment ions using 34 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	164.0706	82.5389					Y							10
2	277.1547	139.0810					I	1202.7852	601.8962	1185.7587	593.3830	1184.7746	592.8910	9
3	461.2758	231.1416	444.2493	222.6283			K	1089.7011	545.3542	1072.6746	536.8409	1071.6906	536.3489	8
4	574.3599	287.6836	557.3334	279.1703			L	905.5800	453.2936	888.5534	444.7803	887.5694	444.2883	7
5	730.4610	365.7341	713.4345	357.2209			R	792.4959	396.7516	775.4693	388.2383	774.4853	387.7463	6
6	831.5087	416.2580	814.4822	407.7447	813.4981	407.2527	T	636.3948	318.7010	619.3682	310.1878	618.3842	309.6957	5
7	888.5302	444.7687	871.5036	436.2554	870.5196	435.7634	G	535.3471	268.1772	518.3206	259.6639	517.3365	259.1719	4
8	1090.6892	545.8482	1073.6626	537.3350	1072.6786	536.8429	K	478.3256	239.6665	461.2991	231.1532	460.3151	230.6612	3
9	1191.7369	596.3721	1174.7103	587.8588	1173.7263	587.3668	T	276.1666	138.5870	259.1401	130.0737	258.1561	129.5817	2
10							R	175.1190	88.0631	158.0924	79.5498			1

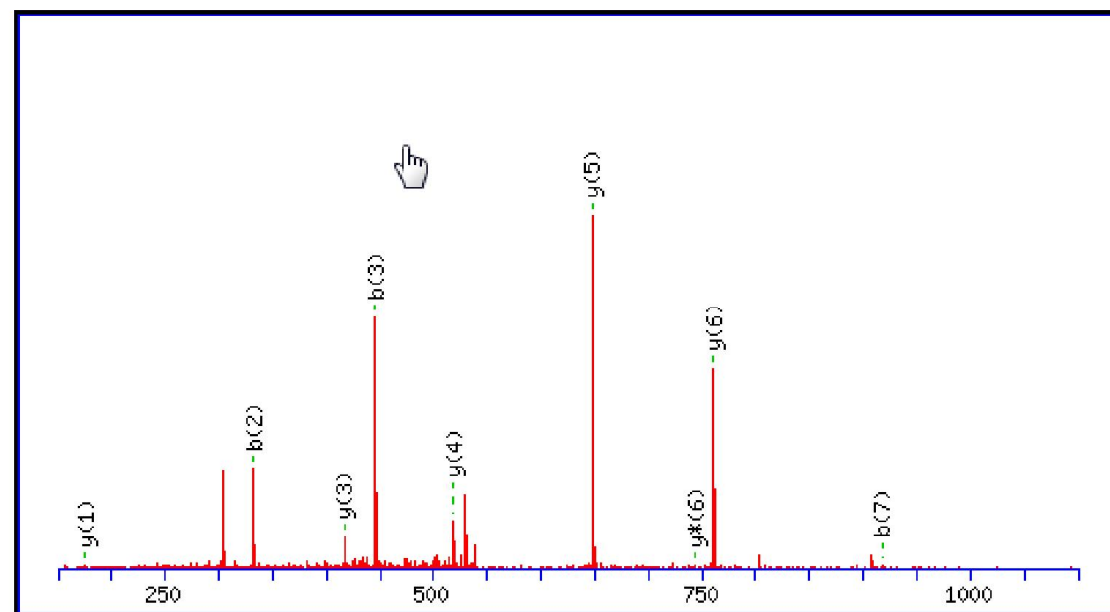
MS/MS Fragmentation of **EKIETELR**Found in **E7ESK7**, 14-3-3 protein zeta/delta (Fragment) OS=Homo sapiens GN=YWHAZ PE=2 SV=1

Match to Query 2752: 1090.615948 from(546.315250, 2+) intensity(36465.8555)

Title: File440 Spectrum17183 scans: 19072

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1090.6142**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 22 **Expect:** 2.4**Matches** : 9/78 fragment ions using 27 most intense peaks

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	K							8
2	332.2089	166.6081	315.1823	158.0948	314.1983	157.6028	K	962.5790	481.7931	945.5524	473.2798	944.5684	472.7878	7
3	445.2929	223.1501	428.2654	214.6368	427.2824	214.1448	I	760.4199	380.7136	743.3934	372.2003	742.4094	371.7083	6
4	574.3355	287.6714	557.3090	279.1581	556.3250	278.6661	K	647.3359	324.1716	630.3093	315.6583	629.3253	315.1663	5
5	675.3832	338.1952	658.3567	329.6820	657.3727	329.1900	T	518.2933	259.6503	501.2667	251.1370	500.2827	250.6450	4
6	804.4258	402.7165	787.3993	394.2033	786.4152	393.7113	B	417.2456	209.1264	400.2191	200.6132	399.2350	200.1212	3
7	917.5099	459.2586	900.4833	450.7453	899.4993	450.2533	L	288.2030	144.6051	271.1765	136.0919			2
8							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **TYSSSLKR**

Found in **HOY901**, Ladinin-1 (Fragment) OS=Homo sapiens GN=LAD1 PE=2 SV=1

Match to Query 1345: 1014.561488 from(508.288020, 2+) intensity(15789.7627)

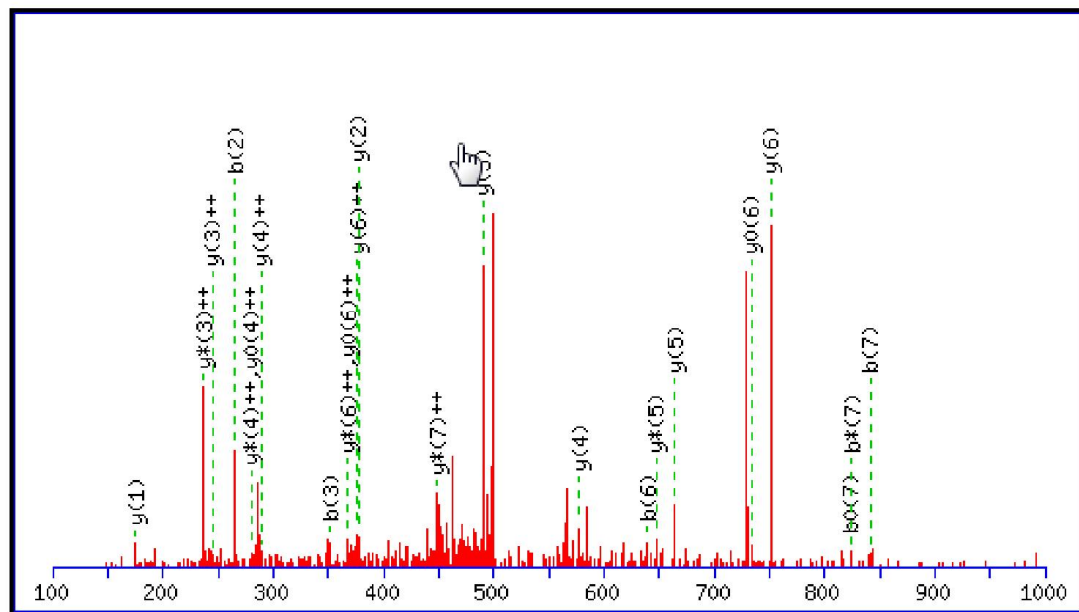
Title: File669 Spectrum5264 scans: 6280

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr1-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1014.5618

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

Variable modifications:

K7 : Propionyl-(13CD3)Methyl (K)

Ions Score: 21 **Expect:** 3.1

Matches : 23/66 fragment ions using 67 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T							8
2	265.1183	133.0628			247.1077	124.0575	Y	914.5214	457.7644	897.4949	449.2511	896.5109	448.7591	7
3	352.1503	176.5788			334.1397	167.5735	S	751.4581	376.2327	734.4316	367.7194	733.4475	367.2274	6
4	439.1823	220.0948			421.1718	211.0895	S	664.4261	332.7167	647.3995	324.2034	646.4155	323.7114	5
5	526.2144	263.6108			508.2038	254.6055	S	577.3947	289.2007	560.3675	230.6874	559.3835	280.1954	4
6	639.2984	320.1529			621.2879	311.1476	L	490.3620	245.6847	473.3355	237.1714			3
7	841.4574	421.2324	824.4309	412.7191	823.4469	412.2271	K	377.2780	189.1426	360.2514	180.6293			2
8							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **TQKALILDSVMR**

Found in **Q8WZ64**, Arf-GAP with Rho-GAP domain, ANK repeat and PH domain-containing protein 2 OS=Homo sapiens GN=ARAP2 PE=1 SV=3

Match to Query 6460: 1430.835428 from(716.424990,2+) intensity(48018.9492)

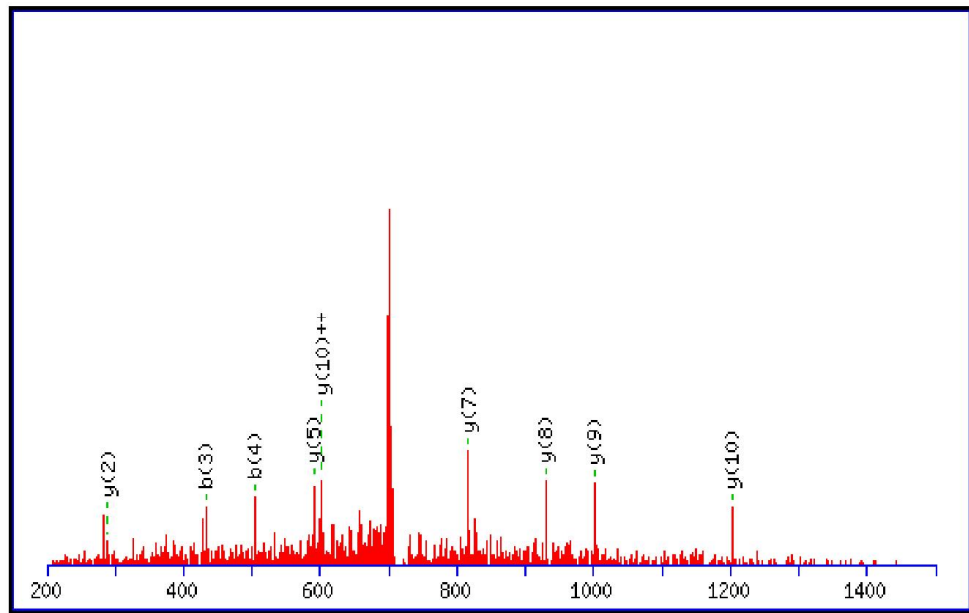
Title: File388 Spectrum13385 scans: 15069

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1430.8365

Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini on^{1+*})

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

Ions Score: 21 Expect: 2.9

Matches : 9/124 fragment ions using 26 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T							12
2	230.1135	115.5604	213.0870	107.0471	212.1030	106.5551	Q	1330.7962	665.9017	1313.7696	657.3834	1312.7856	656.8964	11
3	432.2725	216.6399	415.2460	203.1266	414.2620	207.6346	K	1202.7376	601.8724	1135.7110	593.3592	1134.7270	592.8671	10
4	503.3097	252.1585	486.2831	243.6452	485.2991	243.1532	A	1000.5706	500.7929	983.5520	492.2796	982.5680	491.7876	9
5	616.3937	308.7005	599.3672	300.1872	598.3832	299.6962	L	929.5415	465.2744	912.5149	456.7611	911.5309	456.2691	8
6	729.4778	365.2425	712.4512	356.7293	711.4672	356.2372	I	816.4574	408.7323	799.4308	400.2191	798.4468	399.7271	7
7	842.5619	421.7846	825.5353	413.2713	824.5513	412.7793	L	703.3733	352.1903	686.3468	343.6770	685.3628	343.1850	6
8	957.5883	479.2980	940.5622	470.7348	939.5782	470.2923	D	590.2893	295.6483	573.2627	287.1350	572.2787	286.6430	5
9	1044.6208	522.8140	1027.5943	514.3008	1026.6103	513.8088	S	475.2623	238.1348	458.2358	229.6215	457.2518	229.1295	4
10	1143.6892	572.3483	1126.6627	563.8350	1125.6787	563.3430	V	388.2303	194.6188	371.2037	186.1055			3
11	1257.7322	629.3697	1240.7056	620.8564	1239.7216	620.3644	N	289.1619	145.0846	272.1353	136.5713			2
12							R	175.1190	88.0631	158.0924	79.5498			1

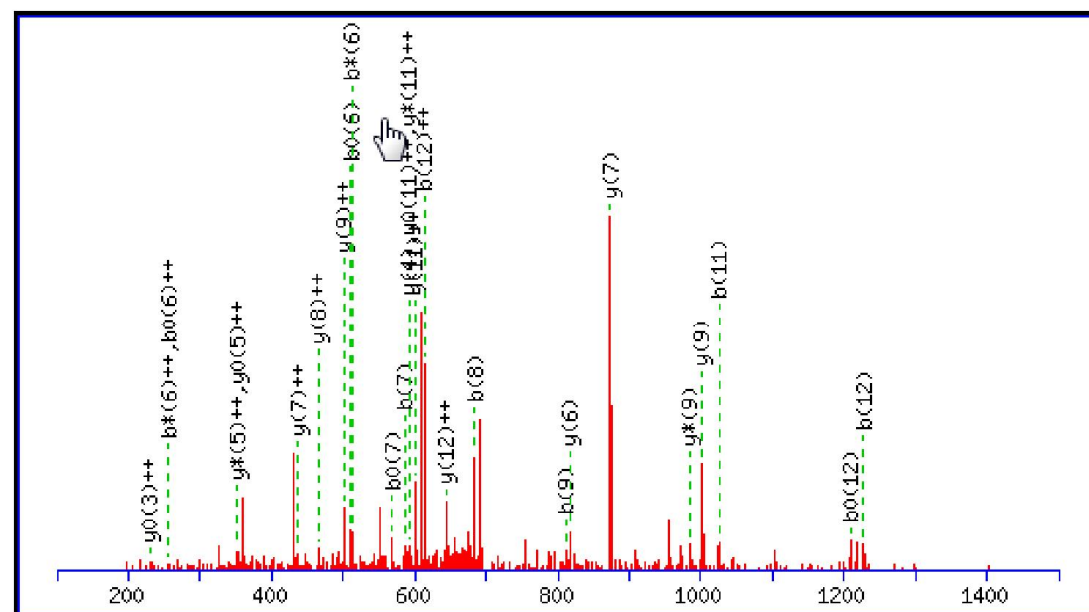
Found in **H9KVB4**, Trinucleotide repeat-containing gene 18 protein OS=Homo sapiens GN=TNRC18 PE=2 SV=1

Match to Query 6564: 1400.827728 from(701.421140,2+) intensity(38974.1602)

Title: File443 Spectrum6130 scans: 7298

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-6-SW620-Kpropio-methyl-IP-Fr15-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1400.8372**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K12** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 20 **Expect:** 3.2**Matches** : 27/138 fragment ions using 90 most intense peaks [\(hel\)](#)

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	115.0502	58.0287	98.0237	49.5155			N							13
2	202.0822	101.5448	185.0557	93.0315	184.0717	92.5395	S	1287.8016	644.4044	1270.7750	635.8912	1269.7910	635.3991	12
3	330.1772	165.5922	313.1506	157.0790	312.1668	156.5870	K	1200.7698	600.8884	1183.7430	592.3751	1182.7590	591.8831	11
4	401.2143	201.1108	384.1878	192.5975	383.2037	192.1055	A	1072.6746	536.8409	1055.6480	528.3277	1054.6640	527.8357	10
5	472.2514	236.6293	455.2249	228.1161	454.2409	227.6241	A	1001.6375	501.3224	984.6109	492.8091	983.6269	492.3171	9
6	529.2729	265.1401	512.2463	256.6268	511.2623	256.1348	G	930.6004	465.8038	913.5738	457.2905	912.5898	456.7985	8
7	586.2944	293.6508	569.2678	285.1375	568.2838	284.6455	G	873.5789	437.2931	856.5523	428.7798	855.5683	428.2878	7
8	683.3471	342.1772	666.3206	333.6639	665.3385	333.1719	P	816.5574	408.7824	799.5309	400.2691	798.5469	399.7771	6
9	811.4421	406.2247	794.4155	397.7114	793.4315	397.2194	K	719.5047	360.2560	702.4781	351.7427	701.4941	351.2507	5
10	924.5261	462.7667	907.4996	454.2534	906.5156	453.7614	L	591.4097	296.2085	574.3832	287.6952	573.3991	287.2032	4
11	1025.5738	513.2905	1008.5473	504.7773	1007.5633	504.2853	T	478.3256	239.6665	461.2991	231.1532	460.3151	230.6612	3
12	1227.7328	614.3701	1210.7063	605.8568	1209.7223	605.3648	K	377.2780	189.1426	360.2514	180.6293			2
13							R	175.1190	88.0631	158.0924	79.5493			1

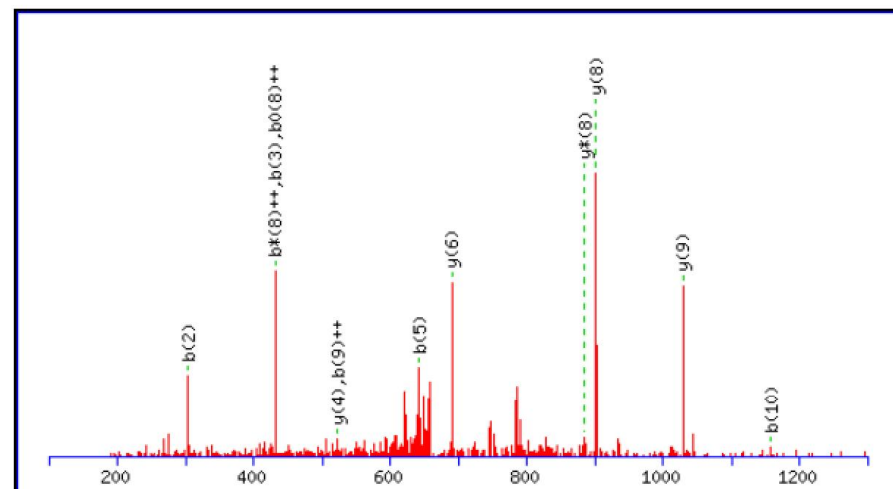
Found in **Q6P1J9**, Parafibromin OS=Homo sapiens GN=CDC73 PE=1 SV=1

Match to Query 4790: 1331.746688 from(666.880620,2+) intensity(34781.2969)

Title: File671 Spectrum7222 scans: 8241

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, 100 to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1331.7470

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

Ions Score: 31 Expect: 0.36

Matches : 12/98 fragment ions using 12 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T					11
2	304.2140	152.6106	287.1874	144.0973	286.2034	143.6053	K	1231.7066	616.3569	1214.6801	607.8437	10
3	432.2725	216.6399	415.2460	208.1266	414.2620	207.6346	Q	1029.5476	515.2774	1012.5211	506.7642	9
4	529.3253	265.1663	512.2988	256.6530	511.3147	256.1610	P	901.4890	451.2482	884.4625	442.7349	8
5	642.4094	321.7083	625.3828	313.1951	624.3988	312.7030	I	804.4363	402.7218	787.4097	394.2085	7
6	739.4621	370.2347	722.4356	361.7214	721.4516	361.2294	P	691.3522	346.1797	674.3257	337.6665	6
7	810.4993	405.7533	793.4727	397.2400	792.4887	396.7480	A	594.2994	297.6534	577.2729	289.1401	5
8	881.5364	441.2718	864.5098	432.7585	863.5258	432.2665	A	523.2623	262.1348	506.2358	253.6215	4
9	1044.5997	522.8035	1027.5731	514.2902	1026.5891	513.7982	Y	452.2252	226.6162	435.1987	218.1030	3
10	1158.6426	579.8249	1141.6161	571.3117	1140.6321	570.8197	N	289.1619	145.0846	272.1353	136.5713	2
11							R	175.1190	88.0631	158.0924	79.5498	1

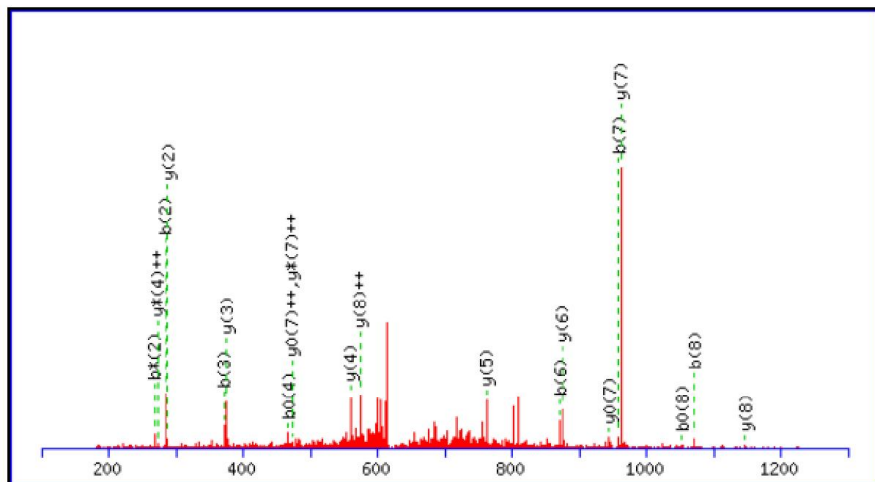
Found in **J3QRV5**, Lethal(2) giant larvae protein homolog 2 OS=Homo sapiens GN=LLGL2 PE=4 SV=1

Match to Query 3778: 1243.812968 from(622.913760,2+) intensity(46833.3438)

Title: File671 Spectrum11978 scans: 13314

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, 100 to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1243.8136

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

Variable modifications:

K2 : Propionyl (K)

K5 : Propionyl-(13CD3)Methyl (K)

K6 : Propionyl (K)

Ions Score: 34 Expect: 0.028

Matches : 20/86 fragment ions using 44 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							9
2	284.1969	142.6021	267.1703	134.0888			K	1145.7525	573.3799	1128.7260	564.8666	1127.7419	564.3746	8
3	371.2289	186.1181	354.2023	177.6048	353.2183	177.1128	S	961.6313	481.3193	944.6048	472.8060	943.6208	472.3140	7
4	484.3130	242.6601	467.2864	234.1468	466.3024	233.6548	L	874.5993	437.8033	857.5727	429.2900	856.5887	428.7980	6
5	686.4720	343.7396	669.4454	335.2264	668.4614	334.7343	K	761.5152	381.2613	744.4887	372.7480	743.5047	372.2560	5
6	870.5932	435.8002	853.5666	427.2869	852.5826	426.7949	K	559.3562	280.1817	542.3297	271.6685	541.3457	271.1765	4
7	957.6252	479.3162	940.5986	470.8030	939.6146	470.3109	S	375.2350	188.1212	358.2085	179.6079	357.2245	179.1159	3
8	1070.7092	535.8583	1053.6827	527.3450	1052.6987	526.8530	L	288.2030	144.6051	271.1765	136.0919			2
9							R	175.1190	88.0631	158.0924	79.5498			1

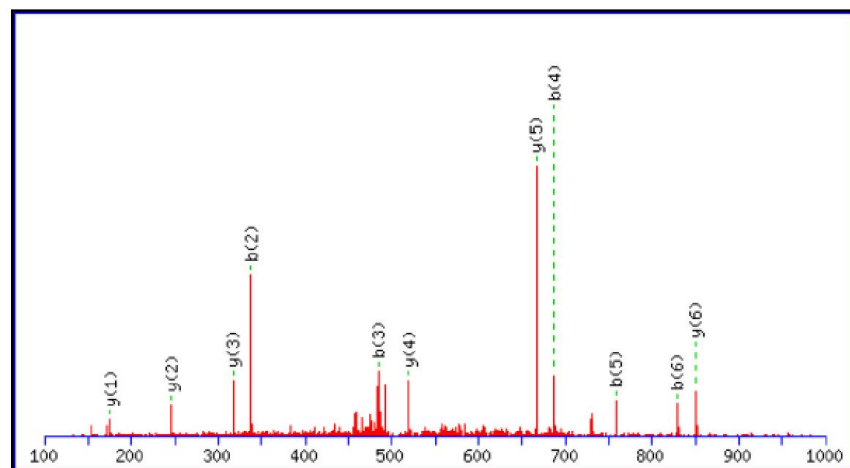
Found in **Q13895**, Bystin OS=Homo sapiens GN=BYSL PE=1 SV=3

Match to Query 1641: 1002.613748 from(502.314150,2+) intensity(50403.8359)

Title: File660 Spectrum13595 scans: 15302

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr3-ZW.mgf

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

Or, 100 to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1002.6135

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

Variable modifications:

N-term : Propionyl (protein N-term) (Protein N-term)

K2 : Propionyl (K)

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 42 Expect: 0.015

Matches : 11/46 fragment ions using 18 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	154.0863	77.5468			P					7
2	338.2074	169.6074	321.1809	161.0941	K	850.5418	425.7745	833.5152	417.2613	6
3	485.2758	243.1416	468.2493	234.6283	F	666.4206	333.7139	649.3941	325.2007	5
4	687.4349	344.2211	670.4083	335.7078	K	519.3522	260.1797	502.3256	251.6665	4
5	758.4720	379.7396	741.4454	371.2264	A	317.1932	159.1002	300.1666	150.5870	3
6	829.5091	415.2582	812.4825	406.7449	A	246.1561	123.5817	229.1295	115.0684	2
7					R	175.1190	88.0631	158.0924	79.5498	1

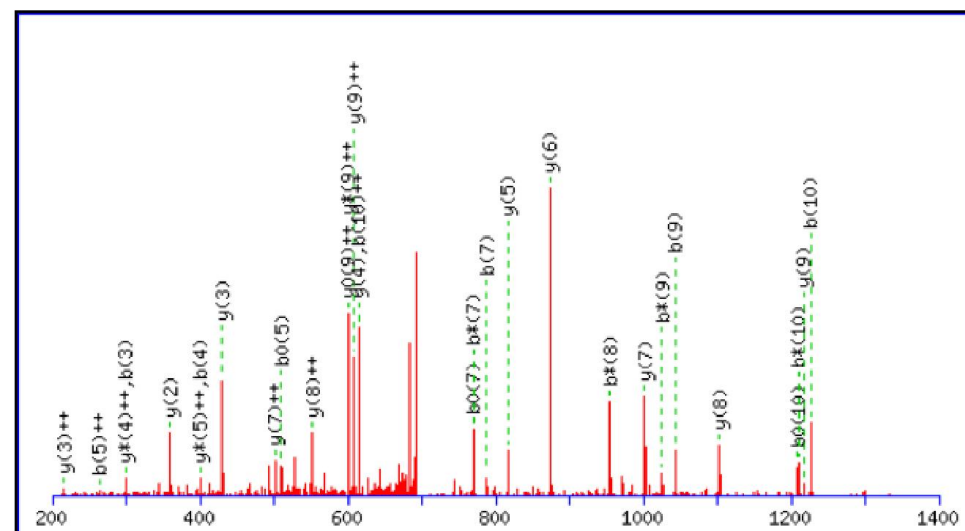
Found in Q99459, Cell division cycle 5-like protein OS=Homo sapiens GN=CDC5L PE=1 SV=2

Match to Query 4841: 1399.841288 from(700.927920,2+) intensity(219706.3750)

Title: File667 Spectrum4478 scans: 5875

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr18-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1399.8419

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

Variable modifications:

K7 : Propionyl-(13CD3)Methyl (K)

K8 : Propionyl (K)

K10 : Propionyl (K)

Ions Score: 67 Expect: 5.4e-005

Matches : 30/96 fragment ions using 34 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							11
2	185.1285	93.0679					A	1287.7652	644.3862	1270.7386	635.8730	1269.7546	635.3810	10
3	299.1714	150.0893	282.1448	141.5761			N	1216.7281	608.8677	1199.7015	600.3544	1198.7175	599.8624	9
4	400.2191	200.6132	383.1925	192.0999	382.2085	191.6079	T	1102.6852	551.8462	1085.6586	543.3329	1084.6746	542.8409	8
5	528.2776	264.6425	511.2511	256.1292	510.2671	255.6372	Q	1001.6375	501.3224	984.6109	492.8091			7
6	585.2991	293.1532	568.2726	284.6399	567.2885	284.1479	G	873.5789	437.2931	856.5524	428.7798			6
7	787.4581	394.2327	770.4316	385.7194	769.4475	385.2274	K	816.5574	408.7824	799.5309	400.2691			5
8	971.5793	486.2933	954.5527	477.7800	953.5687	477.2880	K	614.3984	307.7028	597.3719	299.1896			4
9	1042.6164	521.8118	1025.5899	513.2986	1024.6058	512.8066	A	430.2772	215.6423	413.2507	207.1290			3
10	1226.7376	613.8724	1209.7110	605.3592	1208.7270	604.8671	K	359.2401	180.1237	342.2136	171.6104			2
11							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **LDIMLKR**

Found in **I3L2C9**, Phospholipase D2 OS=Homo sapiens GN=PLD2 PE=2 SV=1

Match to Query 1688: 965.613128 from(483.813840,2+) intensity(56794.9336)

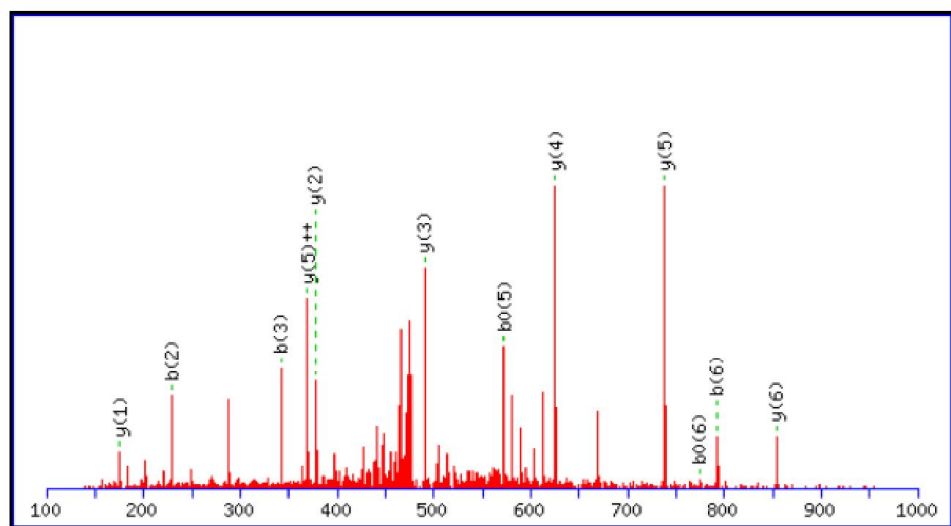
Title: File649 Spectrum14158 scans: 15625

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr20-ZW.mgf

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

Or, 100 to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 965.6125

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

Variable modifications:

M4 : Label:13C(1)2H(3) (M)

K6 : Propionyl-(13CD3)Methyl (K)

Ions Score: 35 Expect: 0.042

Matches : 12/50 fragment ions using 27 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							7
2	229.1183	115.0628			211.1077	106.0575	D	853.5357	427.2715	836.5092	418.7582	835.5251	418.2662	6
3	342.2023	171.6048			324.1918	162.5995	I	738.5088	369.7580	721.4822	361.2447			5
4	477.2650	239.1361			459.2545	230.1309	M	625.4247	313.2160	608.3981	304.7027			4
5	590.3491	295.6782			572.3385	286.6729	L	490.3620	245.6847	473.3355	237.1714			3
6	792.5081	396.7577	775.4815	388.2444	774.4975	387.7524	K	377.2780	189.1426	360.2514	180.6293			2
7							R	175.1190	88.0631	158.0924	79.5498			1

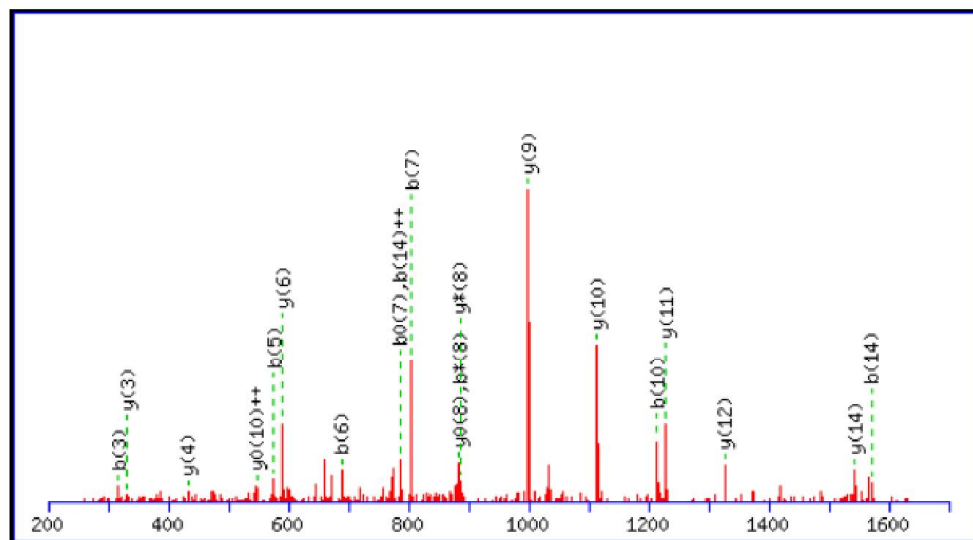
Found in **Q2PPJ7**, Ral GTPase-activating protein subunit alpha-2 OS=Homo sapiens GN=RALGAPA2 PE=1 SV=2

Match to Query 12620: 1801.964948 from(901.989750,2+) intensity(227886.9688)

Title: File394 Spectrum10738 scans: 12089

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, 200 to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1801.9629

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K10 : Propionyl (K)

Ions Score: 53 Expect: 0.003

Matches : 20/160 fragment ions using 28 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							16
2	260.1878	130.5975	243.1612	122.0842			K	1745.9487	873.4780	1728.9222	864.9647	1727.9382	864.4727	15
3	317.2092	159.1082	300.1827	150.5950			G	1543.7897	772.3985	1526.7632	763.8852	1525.7791	763.3932	14
4	477.2399	239.1236	460.2133	230.6103			C	1486.7682	743.8878	1469.7417	735.3745	1468.7577	734.8825	13
5	576.3083	288.6578	559.2817	280.1445			V	1326.7376	663.8724	1309.7110	655.3592	1308.7270	654.8672	12
6	689.3923	345.1998	672.3658	336.6865			L	1227.6692	614.3382	1210.6426	605.8250	1209.6586	605.3329	11
7	804.4193	402.7133	787.3927	394.2000	786.4087	393.7080	D	1114.5851	557.7962	1097.5586	549.2829	1096.5746	548.7909	10
8	901.4721	451.2397	884.4455	442.7264	883.4615	442.2344	P	999.5582	500.2827	982.5316	491.7694	981.5476	491.2774	9
9	1029.5306	515.2690	1012.5041	506.7557	1011.5201	506.2637	Q	902.5054	451.7563	885.4789	443.2431	884.4948	442.7511	8
10	1213.6518	607.3295	1196.6253	598.8163	1195.6412	598.3243	K	774.4468	387.7271	757.4203	379.2138	756.4363	378.7218	7
11	1270.6733	635.8403	1253.6467	627.3270	1252.6627	626.8350	G	590.3257	295.6665	573.2991	287.1532	572.3151	286.6612	6
12	1371.7210	686.3641	1354.6944	677.8508	1353.7104	677.3588	T	533.3042	267.1557	516.2776	258.6425	515.2936	258.1504	5
13	1472.7686	736.8880	1455.7421	728.3747	1454.7581	727.8827	T	432.2565	216.6319	415.2300	208.1186	414.2459	207.6266	4
14	1571.8370	786.4222	1554.8105	777.9089	1553.8265	777.4169	V	331.2088	166.1081	314.1823	157.5948			3
15	1628.8585	814.9329	1611.8320	806.4196	1610.8479	805.9276	G	232.1404	116.5738	215.1139	108.0606			2
16							R	175.1190	88.0631	158.0924	79.5498			1

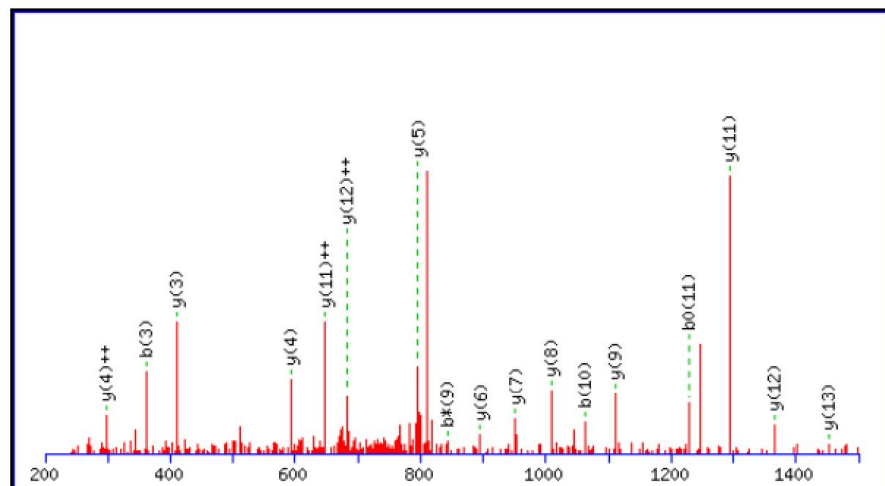
Found in **B4DEB1**, Histone H3 OS=Homo sapiens GN=H3F3A PE=2 SV=1

Match to Query 10911: 1652.976908 from(827.495730,2+) intensity(70017.6875)

Title: File392 Spectrum6683 scans: 7707

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr6-ZW.mgf

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

Or, 200 to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1652.9755

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

K10 : Propionyl-(13CD3)Methyl (K)

K11 : Propionyl (K)

Ions Score: 79 Expect: 3.6e-006

Matches : 17/138 fragment ions using 26 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							14
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	S	1451.8238	726.4155	1434.7972	717.9023	1433.8132	717.4102	13
3	361.2354	181.1214	344.2089	172.6081	343.2249	172.1161	A	1364.7917	682.8995	1347.7652	674.3862	1346.7812	673.8942	12
4	458.2882	229.6477	441.2616	221.1345	440.2776	220.6425	P	1293.7546	647.3810	1276.7281	638.8677	1275.7441	638.3757	11
5	545.3202	273.1637	528.2937	264.6505	527.3097	264.1585	S	1196.7019	598.8546	1179.6753	590.3413	1178.6913	589.8493	10
6	646.3679	323.6876	629.3414	315.1743	628.3573	314.6823	T	1109.6698	555.3386	1092.6433	546.8253	1091.6593	546.3333	9
7	703.3894	352.1983	686.3628	343.6850	685.3788	343.1930	G	1008.6222	504.8147	991.5956	496.3014			8
8	760.4108	380.7091	743.3843	372.1958	742.4003	371.7038	G	951.6007	476.3040	934.5741	467.7907			7
9	859.4792	430.2433	842.4527	421.7300	841.4687	421.2380	V	894.5792	447.7933	877.5527	439.2800			6
10	1061.6383	531.3228	1044.6117	522.8095	1043.6277	522.3175	K	795.5108	398.2590	778.4843	389.7458			5
11	1245.7594	623.3834	1228.7329	614.8701	1227.7489	614.3781	K	593.3518	297.1795	576.3253	288.6663			4
12	1342.8122	671.9097	1325.7857	663.3965	1324.8016	662.9045	P	409.2306	205.1190	392.2041	196.6057			3
13	1479.8711	740.4392	1462.8446	731.9259	1461.8605	731.4339	H	312.1779	156.5926	295.1513	148.0793			2
14							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **SKDMYHASKSAKR**

Found in **Q8N5A5**, Zinc finger CCCH-type with G patch domain-containing protein OS=Homo sapiens GN=ZGPAT PE=1 SV=3

Match to Query 11597: 1697.896828 from(849.955690,2+) intensity(25783.1309)

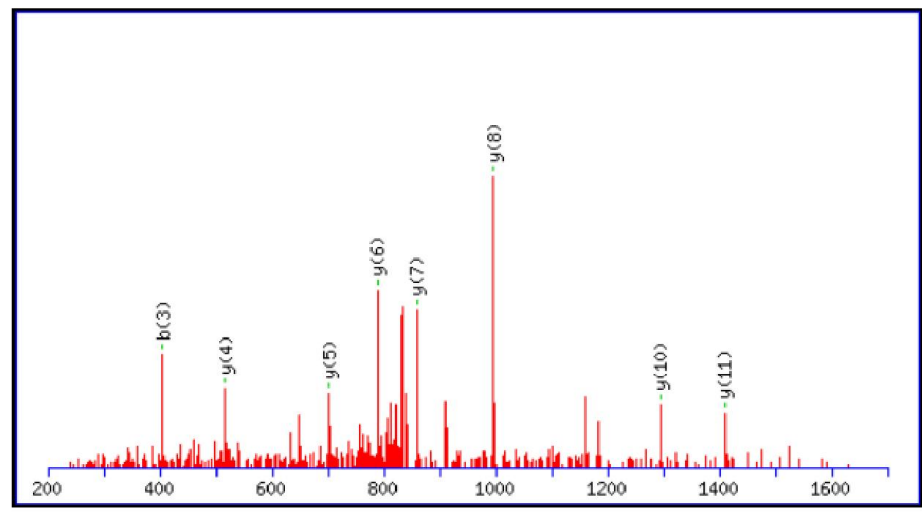
Title: File392 Spectrum7778 scans: 8884

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr6-ZW.mgf

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

Or, 200 1700

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1697.8952

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

Variable modifications:

- K2 : Propionyl-(13CD3)Methyl (K)
- M4 : Label:13C(1)2H(3) (M)
- K9 : Propionyl (K)
- K12 : Propionyl (K)

Ions Score: 39 Expect: 0.07

Matches : 8/136 fragment ions using 14 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b ⁺	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							13
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	K	1611.8705	806.4389	1594.8439	797.9256	1593.8599	797.4336	12
3	405.2253	203.1163	388.1987	194.6030	387.2147	194.1110	D	1409.7114	705.3594	1392.6849	696.8461	1391.7009	696.3541	11
4	540.2879	270.6476	523.2614	262.1343	522.2774	261.6423	M	1294.6845	647.8459	1277.6580	639.3326	1276.6739	638.8406	10
5	703.3513	352.1793	686.3247	343.6660	685.3407	343.1740	Y	1159.6218	580.3146	1142.5953	571.8013	1141.6113	571.3093	9
6	840.4102	420.7087	823.3836	412.1954	822.3996	411.7034	H	996.5585	498.7829	979.5320	490.2696	978.5479	489.7776	8
7	911.4473	456.2273	894.4207	447.7140	893.4367	447.2220	A	859.4996	430.2534	842.4730	421.7402	841.4890	421.2482	7
8	998.4793	499.7433	981.4528	491.2300	980.4687	490.7380	S	788.4625	394.7349	771.4359	386.2216	770.4519	385.7296	6
9	1182.6005	591.8039	1165.5739	583.2906	1164.5899	582.7986	K	701.4305	351.2189	684.4039	342.7056	683.4199	342.2136	5
10	1269.6325	635.3199	1252.6060	626.8066	1251.6220	626.3146	S	517.3093	259.1583	500.2827	250.6450	499.2987	250.1530	4
11	1340.6696	670.8385	1323.6431	662.3252	1322.6591	661.8332	A	430.2772	215.6423	413.2507	207.1290			3
12	1524.7908	762.8990	1507.7643	754.3858	1506.7802	753.8938	K	359.2401	180.1237	342.2136	171.6104			2
13							R	175.1190	88.0631	158.0924	79.5498			1

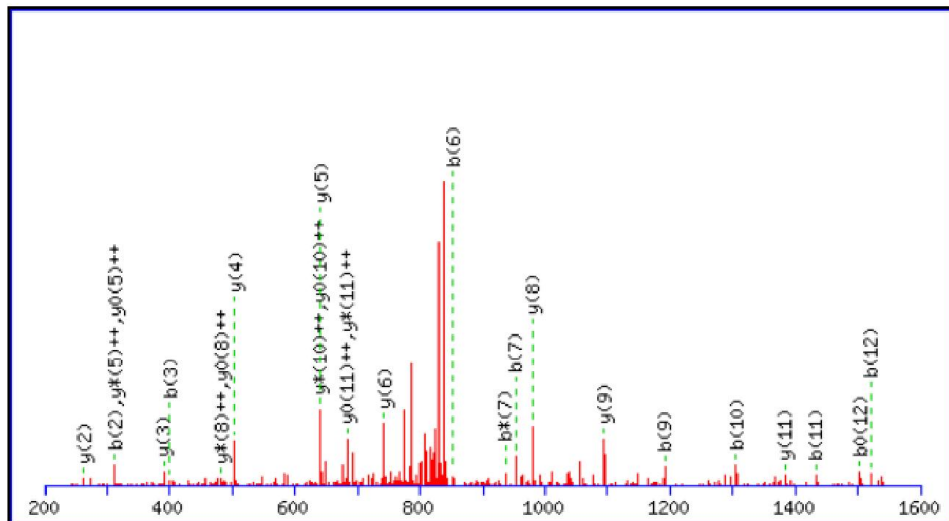
Found in **P47914**, 60S ribosomal protein L29 OS=Homo sapiens GN=RPL29 PE=1 SV=2

Match to Query 10031: 1693.878148 from(847.946350,2+) intensity(986363.2500)

Title: File658 Spectrum1707 scans: 2510

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr17-ZW.mgf

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

Or, 200 to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1693.8768

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

Variable modifications:

N-term : Propionyl (protein N-term) (Protein N-term)

K2 : Propionyl (K)

K4 : Propionyl-(13CD3)Methyl (R)

Ions Score: 81 Expect: 3.8e-006

Matches : 26/136 fragment ions using 26 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	128.0706	64.5389					A							13
2	312.1918	156.5995	295.1652	148.0863			K	1567.8208	784.4140	1550.7943	775.9008	1549.8102	775.4088	12
3	399.2238	200.1155	382.1973	191.6023	381.2132	191.1103	S	1383.6996	692.3535	1366.6731	683.8402	1365.6891	683.3482	11
4	601.3828	301.1951	584.3563	292.6818	583.3723	292.1898	K	1296.6676	648.8374	1279.6411	640.3242	1278.6570	639.8322	10
5	715.4258	358.2165	698.3992	349.7032	697.4152	349.2112	N	1094.5086	547.7579	1077.4820	539.2447	1076.4980	538.7527	9
6	852.4847	426.7460	835.4581	418.2327	834.4741	417.7407	H	980.4657	490.7365	963.4391	482.2232	962.4551	481.7312	8
7	953.5323	477.2698	936.5058	468.7565	935.5218	468.2645	T	843.4068	422.2070	826.3802	413.6937	825.3962	413.2017	7
8	1054.5800	527.7936	1037.5535	519.2804	1036.5695	518.7884	T	742.3591	371.6832	725.3325	363.1699	724.3485	362.6779	6
9	1191.6389	596.3231	1174.6124	587.8098	1173.6284	587.3178	H	641.3114	321.1593	624.2848	312.6461	623.3008	312.1541	5
10	1305.6819	653.3446	1288.6553	644.8313	1287.6713	644.3393	N	504.2525	252.6299	487.2259	244.1166	486.2419	243.6246	4
11	1433.7404	717.3739	1416.7139	708.8606	1415.7299	708.3686	Q	390.2096	195.6084	373.1830	187.0951	372.1990	186.6031	3
12	1520.7725	760.8899	1503.7459	752.3766	1502.7619	751.8846	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
13							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **KQVAKKSTSR**

Found in **E9PRF4**, Histone-lysine N-methyltransferase SETDB1 (Fragment) OS=Homo sapiens GN=SETDB1 PE=2 SV=1

Match to Query 6806: 1464.857768 from(733.436160,2+) intensity(27188.8887)

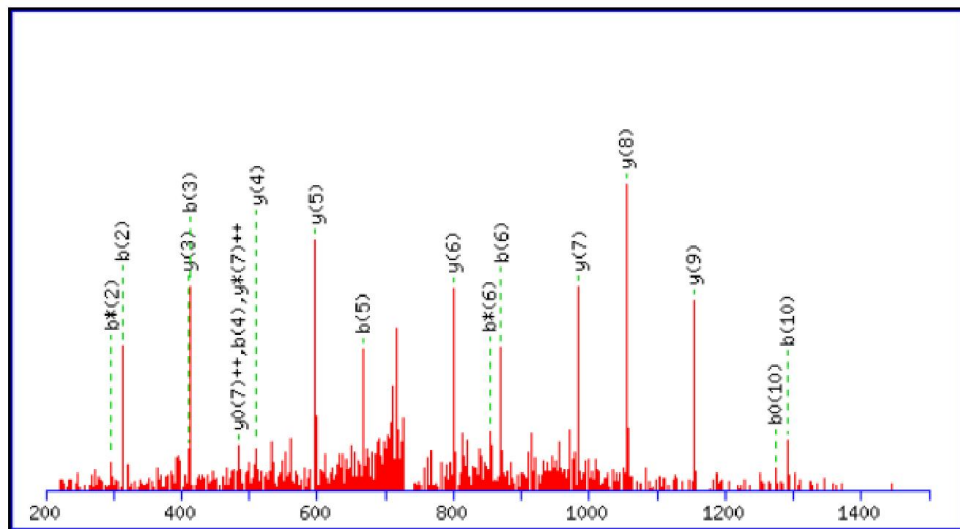
Title: File440 Spectrum10055 scans: 11410

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, 200 to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1464.8573

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

Variable modifications:

- K1 : Propionyl (K)
- K5 : Propionyl (K)
- K6 : Propionyl-(13CD3)Methyl (K)

Ions Score: 48 Expect: 0.0052

Matches : 18/104 fragment ions using 25 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							11
2	313.1870	157.0972	296.1605	148.5839			Q	1281.7434	641.3753	1264.7168	632.8621	1263.7328	632.3701	10
3	412.2554	206.6314	395.2289	198.1181			V	1153.6848	577.3460	1136.6583	568.8328	1135.6743	568.3408	9
4	483.2926	242.1499	466.2660	233.6366			A	1054.6164	527.8118	1037.5899	519.2986	1036.6058	518.8066	8
5	667.4137	334.2105	650.3872	325.6972			K	983.5793	492.2933	966.5527	483.7800	965.5687	483.2880	7
6	869.5728	435.2900	852.5462	426.7767			K	799.4581	400.2327	782.4316	391.7194	781.4475	391.2274	6
7	956.6048	478.8060	939.5782	470.2928	938.5942	469.8007	S	597.2991	299.1532	580.2726	290.6399	579.2885	290.1479	5
8	1057.6525	529.3299	1040.6259	520.8166	1039.6419	520.3246	T	510.2671	255.6372	493.2405	247.1239	492.2565	246.6319	4
9	1144.6845	572.8459	1127.6579	564.3326	1126.6739	563.8406	S	409.2194	205.1133	392.1928	196.6001	391.2088	196.1081	3
10	1291.7529	646.3801	1274.7264	637.8668	1273.7423	637.3748	F	322.1874	161.5973	305.1608	153.0840			2
11							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 19843: 2897.590362 from(966.870730,3+) intensity(230322.1563)

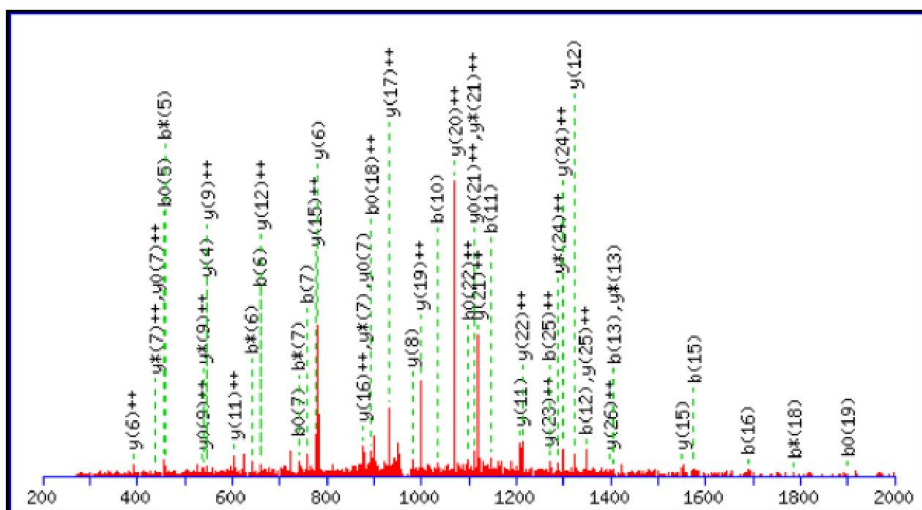
Title: File440 Spectrum18095 scans: 20210

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-5-SW620-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, 200 2000

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calcd): 2897.5884

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

Variable modifications:

K6 : Propionyl (K)

K12 : Propionyl-(13CD3)Methyl (K)

K26 : Propionyl (K)

Ions Score: 58 Expect: 0.0009

Matches : 49/300 fragment ions using 105 most intense peaks [\(help\)](#)

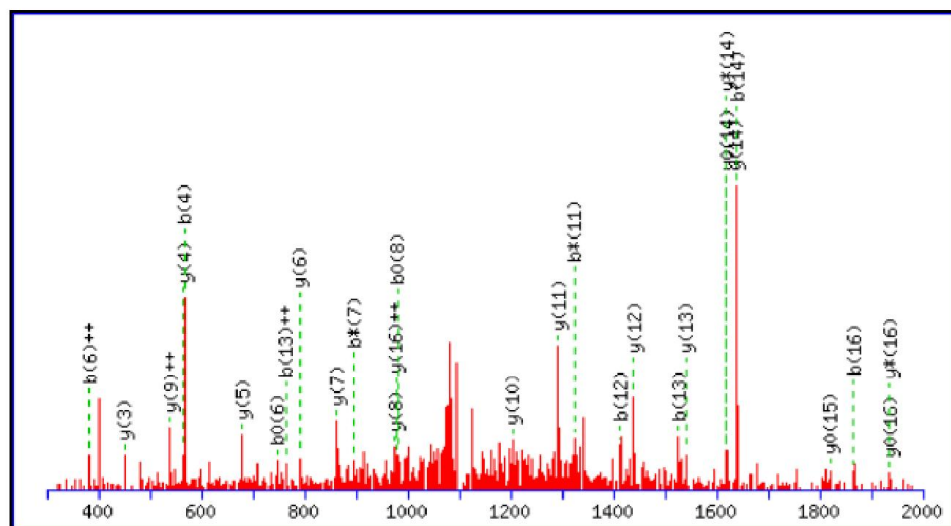
#	b	b ⁺⁺	b [*]	b ^{***}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T							27
2	203.1026	102.0550			185.0921	93.0497	T	2797.5479	1399.2776	2780.5214	1390.7643	2779.5374	1390.2723	26
3	304.1503	152.5788			286.1397	143.5735	T	2696.5003	1348.7538	2679.4737	1340.2405	2678.4897	1339.7485	25
4	361.1718	181.0895			343.1612	172.0842	G	2595.4526	1298.2299	2578.4260	1289.7167	2577.4420	1289.2246	24
5	475.2147	238.1110	458.1882	229.5977	457.2041	229.1057	N	2538.4311	1269.7192	2521.4046	1261.2059	2520.4206	1260.7139	23
6	659.3359	330.1716	642.3093	321.6583	641.3253	321.1663	K	2424.3882	1212.6977	2407.3616	1204.1845	2406.3776	1203.6925	22
7	758.4043	379.7058	741.3777	371.1925	740.3937	370.7005	V	2240.2670	1120.6371	2223.2405	1112.1239	2222.2564	1111.6319	21
8	905.4727	453.2400	888.4462	444.7267	887.4621	444.2347	F	2141.1986	1071.1029	2124.1721	1062.5897	2123.1880	1062.0977	20
9	962.4942	481.7507	945.4676	473.2375	944.4836	472.7454	G	1994.1302	997.5687	1977.1036	989.0555	1976.1196	988.5634	19
10	1033.5313	517.2693	1016.5047	508.7560	1015.5207	508.2640	A	1937.1087	969.0580	1920.0822	960.5447	1919.0982	960.0527	18
11	1146.6154	573.8113	1129.5888	565.2980	1128.6048	564.8060	L	1866.0716	933.5394	1849.0451	925.0262	1848.0610	924.5342	17
12	1348.7744	674.8908	1331.7478	666.3775	1330.7638	665.8855	K	1752.9875	876.9974	1735.9610	868.4841	1734.9770	867.9921	16
13	1405.7958	703.4016	1388.7693	694.8883	1387.7853	694.3963	G	1550.8285	775.9179	1533.8020	767.4046	1532.8180	766.9126	15
14	1476.8329	738.9201	1459.8064	730.4068	1458.8224	729.9148	A	1493.8071	747.4072	1476.7805	738.8939	1475.7965	738.4019	14
15	1575.9014	788.4543	1558.8748	779.9410	1557.8908	779.4490	V	1422.7700	711.8886	1405.7434	703.3753	1404.7594	702.8833	13
16	1690.9283	845.9678	1673.9018	837.4545	1672.9177	836.9625	D	1323.7015	662.3544	1306.6750	653.8411	1305.6910	653.3491	12
17	1747.9498	874.4785	1730.9232	865.9652	1729.9392	865.4732	G	1208.6746	604.8409	1191.6480	596.3277	1190.6640	595.8357	11
18	1804.9712	902.9893	1787.9447	894.4760	1786.9607	893.9840	G	1151.6531	576.3302	1134.6266	567.8169	1133.6426	567.3249	10
19	1918.0553	959.5313	1901.0287	951.0180	1900.0447	950.5260	L	1094.6317	547.8195	1077.6051	539.3062	1076.6211	538.8142	9
20	2005.0873	1003.0473	1988.0608	994.5340	1987.0768	994.0420	S	981.5476	491.2774	964.5211	482.7642	963.5370	482.2722	8
21	2118.1714	1059.5893	2101.1448	1051.0761	2100.1608	1050.5840	I	894.5156	447.7614	877.4890	439.2482	876.5050	438.7561	7
22	2215.2241	1108.1157	2198.1976	1099.6024	2197.2136	1099.1104	P	781.4315	391.2194	764.4050	382.7061	763.4209	382.2141	6
23	2352.2831	1176.6452	2335.2565	1168.1319	2334.2725	1167.6399	H	684.3787	342.6930	667.3522	334.1797	666.3682	333.6877	5
24	2439.3151	1220.1612	2422.2885	1211.6479	2421.3045	1211.1559	S	547.3198	274.1636	530.2933	265.6503	529.3093	265.1583	4
25	2540.3628	1270.6850	2523.3362	1262.1717	2522.3522	1261.6797	T	460.2878	230.6475	443.2613	222.1343	442.2772	221.6423	3
26	2724.4839	1362.7456	2707.4574	1354.2323	2706.4734	1353.7403	K	359.2401	180.1237	342.2136	171.6104			2
27							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 15638: 2202.249368 from(1102.131960,2+) intensity(60800.7969)

Title: File669 Spectrum17598 scans: 19485

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-6-18-SW620-Kpropio-methyl-IP-Fr1-ZW.mgf

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

Or, 300 2000 Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 2202.2433

Fixed modifications: Carbamidomethyl (C) (apply to specified residue)

Variable modifications:

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 41 Expect: 0.032

Matches : 29/174 fragment ions using 68 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							18
2	251.1503	126.0788					H	2090.1666	1045.5869	2073.1400	1037.0736	2072.1560	1036.5816	17
3	365.1932	183.1002	348.1666	174.5870			N	1953.1077	977.0575	1936.0811	968.5442	1935.0971	968.0522	16
4	567.3522	284.1797	550.3256	275.6665			K	1839.0647	920.0360	1822.0382	911.5227	1821.0542	911.0307	15
5	664.4050	332.7061	647.3784	324.1928			P	1636.9057	818.9565	1619.8792	810.4432	1618.8952	809.9512	14
6	765.4526	383.2300	748.4261	374.7167	747.4421	374.2247	T	1539.8530	770.4301	1522.8264	761.9168	1521.8424	761.4248	13
7	912.5210	456.7642	895.4945	448.2509	894.5105	447.7589	F	1438.8053	719.9063	1421.7787	711.3930	1420.7947	710.9010	12
8	999.5531	500.2802	982.5265	491.7669	981.5425	491.2749	S	1291.7369	646.3721	1274.7103	637.8588	1273.7263	637.3668	11
9	1127.6117	564.3095	1110.5851	555.7962	1109.6011	555.3042	Q	1204.7048	602.8561	1187.6783	594.3428	1186.6943	593.8508	10
10	1228.6593	614.8333	1211.6328	606.3200	1210.6488	605.8280	T	1076.6463	538.8268	1059.6197	530.3135	1058.6357	529.8215	9
11	1341.7434	671.3753	1324.7168	662.8621	1323.7328	662.3701	I	975.5986	488.3029	958.5720	479.7897			8
12	1412.7805	706.8939	1395.7540	698.3806	1394.7699	697.8886	A	862.5145	431.7609	845.4880	423.2476			7
13	1525.8646	763.4359	1508.8380	754.9227	1507.8540	754.4306	L	791.4774	396.2423	774.4509	387.7291			6
14	1638.9486	819.9780	1621.9221	811.4647	1620.9381	810.9727	L	678.3933	339.7003	661.3668	331.1870			5
15	1752.9916	876.9994	1735.9650	868.4861	1734.9810	867.9941	N	565.3093	283.1583	548.2827	274.6450			4
16	1866.0756	933.5415	1849.0491	925.0282	1848.0651	924.5362	I	451.2663	226.1368	434.2398	217.6235			3
17	2029.1390	1015.0731	2012.1124	1006.5598	2011.1284	1006.0678	Y	338.1823	169.5948	321.1557	161.0815			2
18							R	175.1190	88.0631	158.0924	79.5498			1

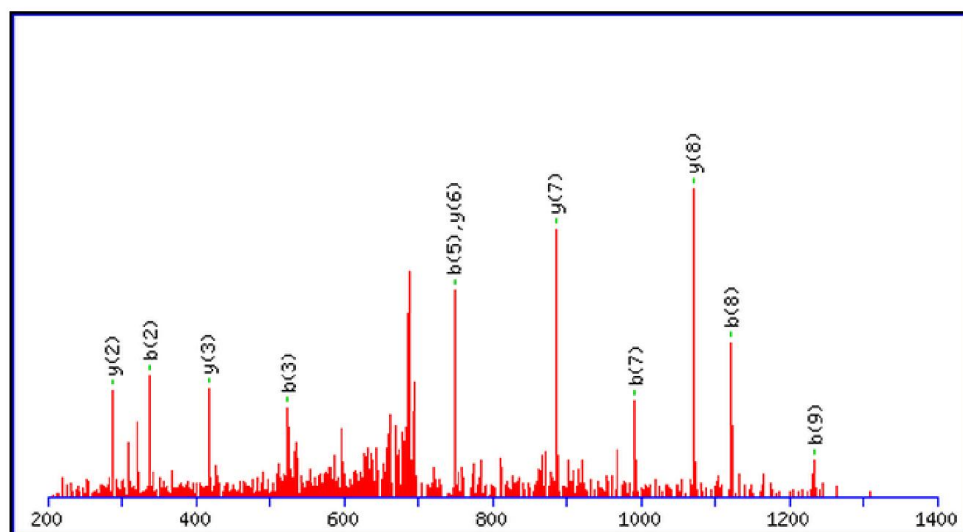
Found in **Q9GZY0**, Nuclear RNA export factor 2 OS=Homo sapiens GN=NXF2 PE=1 SV=1

Match to Query 6900: 1407.700648 from(704.857600,2+) intensity(51287.1406)

Title: File314 Spectrum7796 scans: 9406

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr9-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1407.6998

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

Variable modifications:

M1 : Label:13C(1)2H(3)

K2 : Propionyl-(13CD3)M

Ions Score: 52 Expect: 0.0

Matches : 11/94 fragment id

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	136.0699	68.5386					M							10
2	338.2290	169.6181	321.2024	161.1048			K	1273.6444	637.3258	1256.6179	628.8126	1255.6338	628.3206	9
3	524.3083	262.6578	507.2817	254.1445			W	1071.4854	536.2463	1054.4588	527.7331	1053.4748	527.2411	8
4	661.3672	331.1872	644.3406	322.6740			H	885.4061	443.2067	868.3795	434.6934	867.3955	434.2014	7
5	748.3992	374.7032	731.3727	366.1900	730.3886	365.6980	S	748.3472	374.6772	731.3206	366.1640	730.3366	365.6719	6
6	877.4418	439.2245	860.4153	430.7113	859.4312	430.2193	E	661.3151	331.1612	644.2886	322.6479	643.3046	322.1559	5
7	992.4687	496.7380	975.4422	488.2247	974.4582	487.7327	D	532.2726	266.6399	515.2460	258.1266	514.2620	257.6346	4
8	1121.5113	561.2593	1104.4848	552.7460	1103.5008	552.2540	E	417.2456	209.1264	400.2191	200.6132	399.2350	200.1212	3
9	1234.5954	617.8013	1217.5689	609.2881	1216.5848	608.7961	I	288.2030	144.6051	271.1765	136.0919			2
10							R	175.1190	88.0631	158.0924	79.5498			1

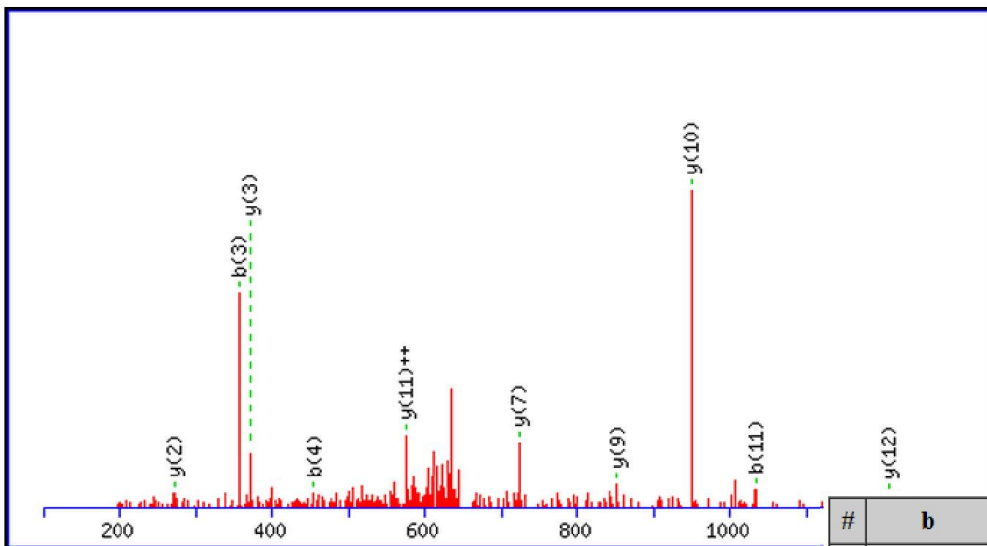
Found in **MOQXA7**, Protein Wiz OS=Homo sapiens GN=WIZ PE=4 SV=1

Match to Query 5727: 1304.748028 from(653.381290,2+) intensity(35976.8203)

Title: File314 Spectrum5313 scans: 6757

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr9-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1304.7474

Fixed modifications: Carbamidomethyl (C) (apply to specif

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

Ions Score: 31 Expect: 0.32

Matches : 10/92 fragment ions using 22 most intense peaks

#	b	b ⁺⁺	b [*]	b ^{*++}	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
1	98.0600	49.5337			P					13
2	155.0815	78.0444			G	1208.7019	604.8546	1191.6753	596.3413	12
3	357.2405	179.1239	340.2140	170.6106	K	1151.6804	576.3438	1134.6539	567.8306	11
4	454.2933	227.6503	437.2667	219.1370	P	949.5214	475.2643	932.4948	466.7511	10
5	511.3147	256.1610	494.2882	247.6477	G	852.4686	426.7380	835.4421	418.2247	9
6	582.3519	291.6796	565.3253	283.1663	A	795.4472	398.2272	778.4206	389.7139	8
7	639.3733	320.1903	622.3468	311.6770	G	724.4101	362.7087	707.3835	354.1954	7
8	736.4261	368.7167	719.3995	360.2034	P	667.3886	334.1979	650.3620	325.6847	6
9	807.4632	404.2352	790.4367	395.7220	A	570.3358	285.6715	553.3093	277.1583	5
10	935.5218	468.2645	918.4952	459.7513	Q	499.2987	250.1530	482.2722	241.6397	4
11	1034.5902	517.7987	1017.5636	509.2855	V	371.2401	186.1237	354.2136	177.6104	3
12	1131.6430	566.3251	1114.6164	557.8118	P	272.1717	136.5895	255.1452	128.0762	2
13					R	175.1190	88.0631	158.0924	79.5498	1

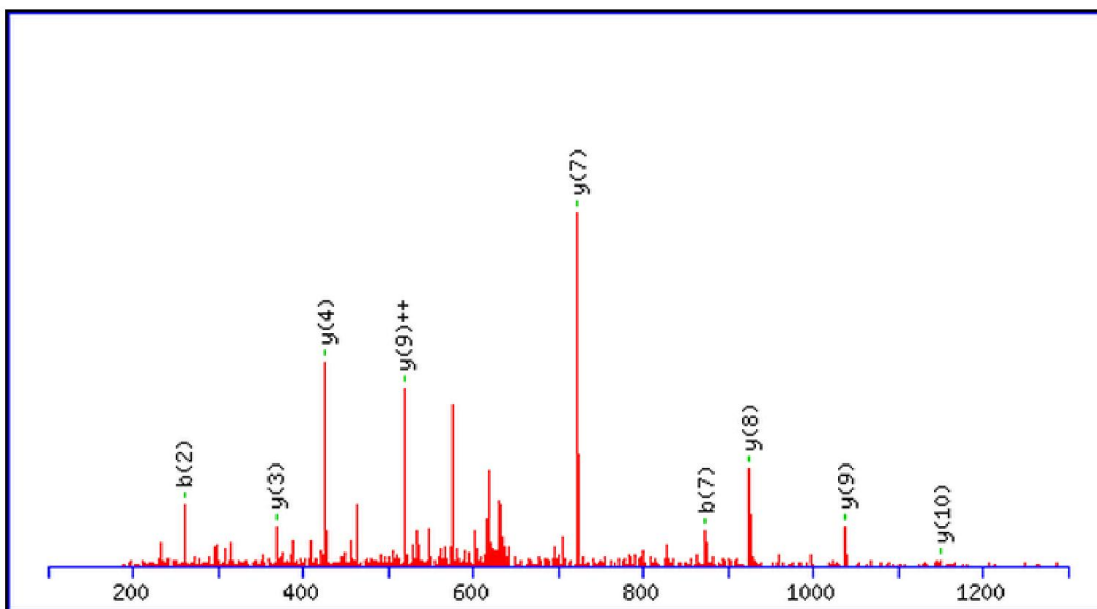
Found in **F8WD00**, U3 small nucleolar RNA-associated protein 14 homolog A OS=Homo sapiens GN=UTP14A PE=2 SV=1

Match to Query 5650: 1297.766088 from(649.890320,2+) intensity(112340.5703)

Title: File314 Spectrum12142 scans: 14042

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr9-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1297.7667

Fixed modifications: Carbamidomethyl (C) (ag)

Variable modifications:

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 43 Expect: 0.018

Matches : 9/94 fragment ions using 12 most i

#	b	b ⁺⁺	b [*]	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	148.0757	74.5415					F							11
2	261.1598	131.0835					L	1151.7056	576.3564	1134.6790	567.8431	1133.6950	567.3511	10
3	374.2438	187.6255					I	1038.6215	519.8144	1021.5949	511.3011	1020.6109	510.8091	9
4	576.4028	288.7051	559.3763	280.1918			K	925.5374	463.2724	908.5109	454.7591	907.5269	454.2671	8
5	647.4399	324.2236	630.4134	315.7103			A	723.3784	362.1928	706.3519	353.6796	705.3678	353.1876	7
6	744.4927	372.7500	727.4662	364.2367			P	652.3413	326.6743	635.3148	318.1610	634.3307	317.6690	6
7	873.5353	437.2713	856.5088	428.7580	855.5247	428.2660	E	555.2885	278.1479	538.2620	269.6346	537.2780	269.1426	5
8	930.5568	465.7820	913.5302	457.2687	912.5462	456.7767	G	426.2459	213.6266	409.2194	205.1133			4
9	1027.6095	514.3084	1010.5830	505.7951	1009.5990	505.3031	P	369.2245	185.1159	352.1979	176.6026			3
10	1124.6623	562.8348	1107.6357	554.3215	1106.6517	553.8295	P	272.1717	136.5895	255.1452	128.0762			2
11							R	175.1190	88.0631	158.0924	79.5498			1

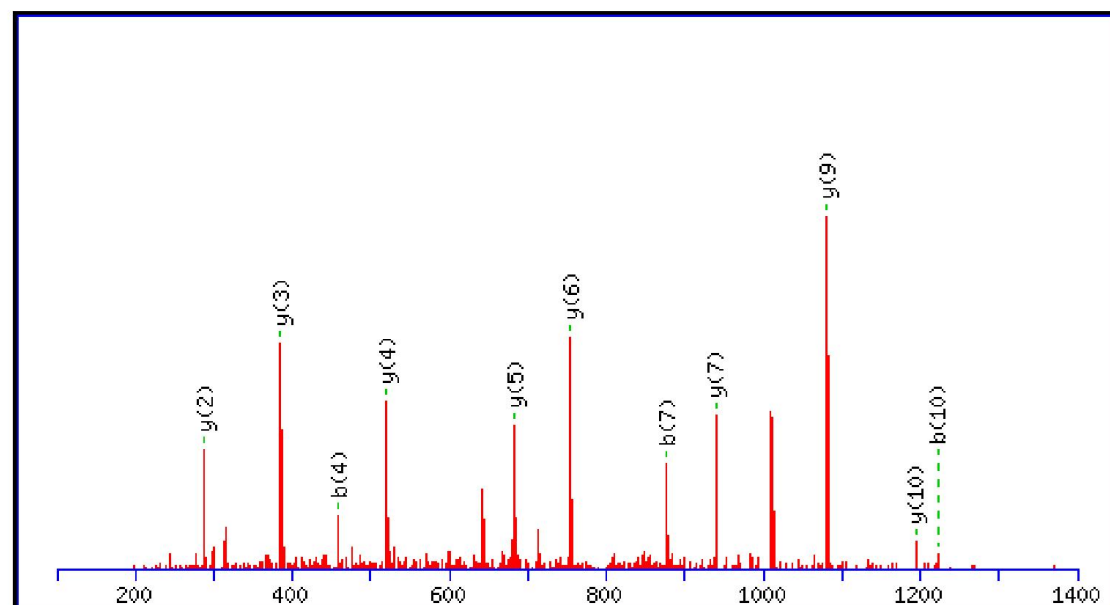
MS/MS Fragmentation of **KLAAKAYMPLR**Found in **F5H8K3**, PHD finger protein 19 OS=Homo sapiens GN=PHF19 PE=2 SV=1

Match to Query 6707: 1394.850188 from(698.432370, 2+) intensity(214282.7969)

Title: File314 Spectrum14179 scans: 16215

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr9-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1394.8501**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or t**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**K5** : Propionyl (K)**M8** : Label:13C(1)2H(3) (M)**Ions Score:** 78 **Expect:** 2.9e-006**Matches** : 11/80 fragment ions using 12 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	#
1	203.1663	102.5868	186.1397	93.5735	K					11
2	316.2504	158.6288	299.2238	150.1155	L	1193.6984	597.3528	1176.6718	588.8395	10
3	387.2875	194.1474	370.2609	185.6341	A	1080.6143	540.8108	1063.5877	532.2975	9
4	458.3246	229.6659	441.2980	221.1527	A	1009.5772	505.2922	992.5506	496.7790	8
5	642.4458	321.7265	625.4192	313.2132	K	938.5401	469.7737	921.5135	461.2604	7
6	713.4829	357.2451	696.4563	348.7318	A	754.4189	377.7131	737.3923	369.1998	6
7	876.5462	438.7767	859.5197	430.2635	Y	683.3818	342.1945	666.3552	333.6813	5
8	1011.6083	506.3081	994.5823	497.7948	H	520.3184	260.6629	503.2919	252.1496	4
9	1108.6616	554.8345	1091.6351	546.3212	P	385.2558	193.1315	368.2292	184.6183	3
10	1221.7457	611.3765	1204.7192	602.8632	L	288.2030	144.6051	271.1765	136.0919	2
11					R	175.1190	88.0631	158.0924	79.5498	1

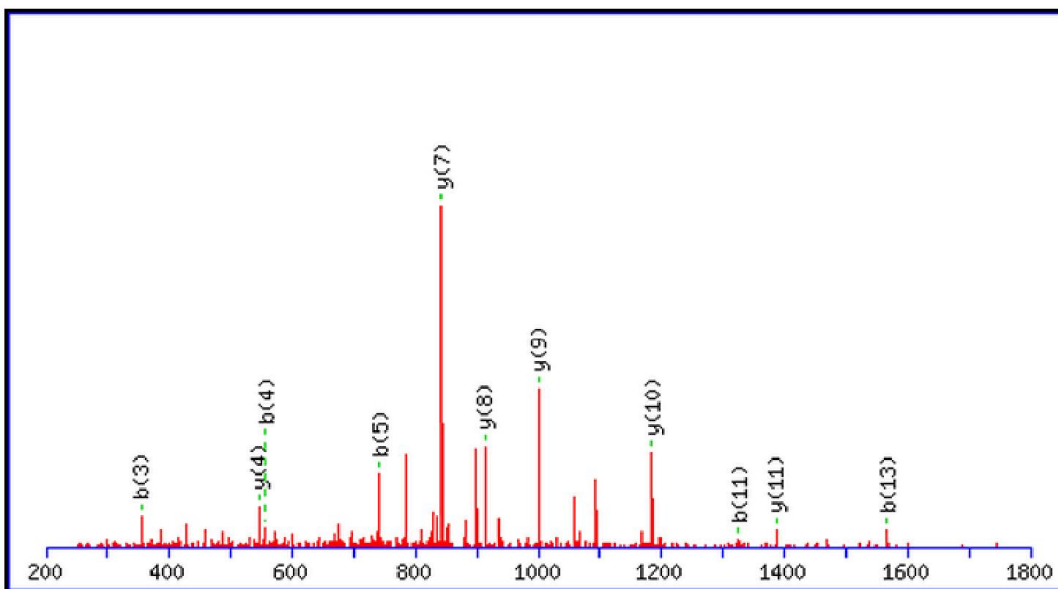
Found in **Q96BK5**, PIN2/TERF1-interacting telomerase inhibitor 1 OS=Homo sapiens GN=PINX1 PE=1 SV=2

Match to Query 12905: 1740.004988 from(871.009770,2+) intensity(133428.2969)

Title: File312 Spectrum8804 scans: 10358

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1740.004988

Fixed modifications: Carbamidomethyl (C) (apply to s

Variable modifications:

K3 : Propionyl (K)

K4 : Propionyl-(13CD3)Methyl (K)

K5 : Propionyl (K)

Ions Score: 47 Expect: 0.0074

Matches : 11/136 fragment ions using 15 most intense

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							14
2	171.1128	86.0600					A	1641.9443	821.4758	1624.9177	812.9625	1623.9337	812.4705	13
3	355.2340	178.1206	338.2074	169.6074			K	1570.9072	785.9572	1553.8806	777.4439	1552.8966	776.9519	12
4	557.3930	279.2001	540.3664	270.6869			K	1386.7860	693.8966	1369.7594	685.3834	1368.7754	684.8914	11
5	741.5142	371.2607	724.4876	362.7475			K	1184.6270	592.8171	1167.6004	584.3039	1166.6164	583.8118	10
6	828.5462	414.7767	811.5197	406.2635	810.5356	405.7715	S	1000.5058	500.7565	983.4793	492.2433	982.4952	491.7513	9
7	899.5833	450.2953	882.5568	441.7820	881.5727	441.2900	A	913.4738	457.2405	896.4472	448.7272	895.4632	448.2352	8
8	996.6361	498.8217	979.6095	490.3084	978.6255	489.8164	P	842.4367	421.7220	825.4101	413.2087	824.4261	412.7167	7
9	1067.6732	534.3402	1050.6466	525.8270	1049.6626	525.3350	A	745.3839	373.1956	728.3573	364.6823	727.3733	364.1903	6
10	1196.7158	598.8615	1179.6892	590.3483	1178.7052	589.8562	E	674.3468	337.6770	657.3202	329.1638	656.3362	328.6717	5
11	1325.7584	663.3828	1308.7318	654.8696	1307.7478	654.3775	E	545.3042	273.1557	528.2776	264.6425	527.2936	264.1504	4
12	1453.8170	727.4121	1436.7904	718.8988	1435.8064	718.4068	Q	416.2616	208.6344	399.2350	200.1212			3
13	1566.9010	783.9541	1549.8745	775.4409	1548.8905	774.9489	L	288.2030	144.6051	271.1765	136.0919			2
14							R	175.1190	88.0631	158.0924	79.5498			1

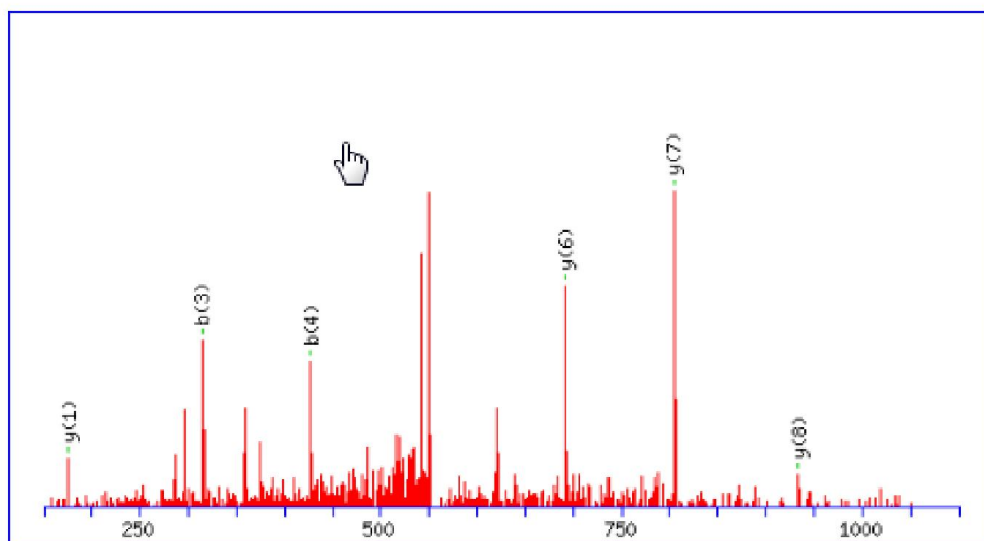
MS/MS Fragmentation of **AIELIKSGGR**Found in **E7EW10**, Membrane-associated guanylate kinase, WW and PDZ domain-containing protein 2 OS=Homo sapiens GN=MAGI2 PE=2 SV=1

Match to Query 3916: 1116.677588 from(559.346070,2+) intensity(27267.5508)

Title: File312 Spectrum7082 scans: 8520

Data file \\192.168.1.104\public\raw_data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, 150 to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1116.6775

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

Variable modifications:

K6 : Propionyl-(13CD3)Methyl (K)

Ions Score: 27 Expect: 0.52

Matches : 6/88 fragment ions using 9 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							10
2	185.1285	93.0679					I	1046.6477	523.8275	1029.6212	515.3142	1028.6371	514.8222	9
3	314.1710	157.5892			296.1605	148.5839	E	933.5636	467.2855	916.5371	458.7722	915.5531	458.2802	8
4	427.2551	214.1312			409.2445	205.1259	L	804.5210	402.7642	787.4945	394.2509	786.5105	393.7589	7
5	540.3392	270.6732			522.3286	261.6679	I	691.4370	346.2221	674.4104	337.7089	673.4264	337.2168	6
6	742.4982	371.7527	725.4716	363.2395	724.4876	362.7474	K	578.3529	289.6801	561.3264	281.1668	560.3424	280.6748	5
7	829.5302	415.2687	812.5037	406.7555	811.5197	406.2635	S	376.1939	188.6006	359.1674	180.0873	358.1833	179.5953	4
8	886.5517	443.7795	869.5251	435.2662	868.5411	434.7742	G	289.1619	145.0846	272.1353	136.5713			3
9	943.5731	472.2902	926.5466	463.7769	925.5626	463.2849	G	232.1404	116.5738	215.1139	108.0606			2
10							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 10491: 1594.988862 from(532.670230,3+) intensity(29796.8184)

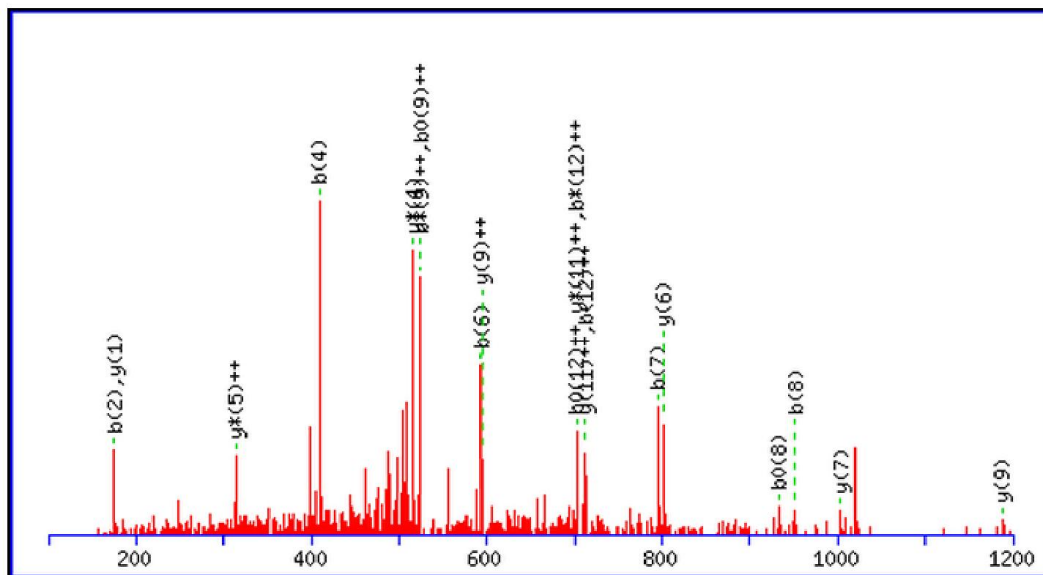
Title: File312 Spectrum6632 scans: 8040

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1594.9774

Fixed modifications: Carbamidomethyl (C) (apply to S)

Variable modifications:

M3 : Label:13C(1)2H(3) (M)

K7 : Propionyl-(13CD3)Methyl (K)

Ions Score: 27 Expect: 0.22

Matches : 20/110 fragment ions using 22 most intense

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							13
2	175.0713	88.0393			157.0608	79.0340	S	1508.9527	754.9800	1491.9261	746.4667	1490.9421	745.9747	12
3	310.1340	155.5706			292.1234	146.5654	M	1421.9206	711.4640	1404.8941	702.9507			11
4	409.2024	205.1048			391.1919	196.0996	V	1286.8580	643.9326	1269.8314	635.4194			10
5	480.2395	240.6234			462.2290	231.6181	A	1187.7896	594.3984	1170.7630	585.8851			9
6	593.3236	297.1654			575.3130	288.1602	L	1116.7524	558.8799	1099.7259	550.3666			8
7	795.4826	398.2449	778.4561	389.7317	777.4720	389.2397	K	1003.6684	502.3378	986.6418	493.8246			7
8	951.5837	476.2955	934.5572	467.7822	933.5732	467.2902	R	801.5094	401.2583	784.4828	392.7450			6
9	1064.6678	532.8375	1047.6412	524.3243	1046.6572	523.8322	L	645.4083	323.2078	628.3817	314.6945			5
10	1161.7205	581.3639	1144.6940	572.8506	1143.7100	572.3586	P	532.3242	266.6657	515.2976	258.1525			4
11	1308.7890	654.8981	1291.7624	646.3848	1290.7784	645.8928	F	435.2714	218.1394	418.2449	209.6261			3
12	1421.8730	711.4402	1404.8465	702.9269	1403.8625	702.4349	L	288.2030	144.6051	271.1765	136.0919			2
13							R	175.1190	88.0631	158.0924	79.5498			1

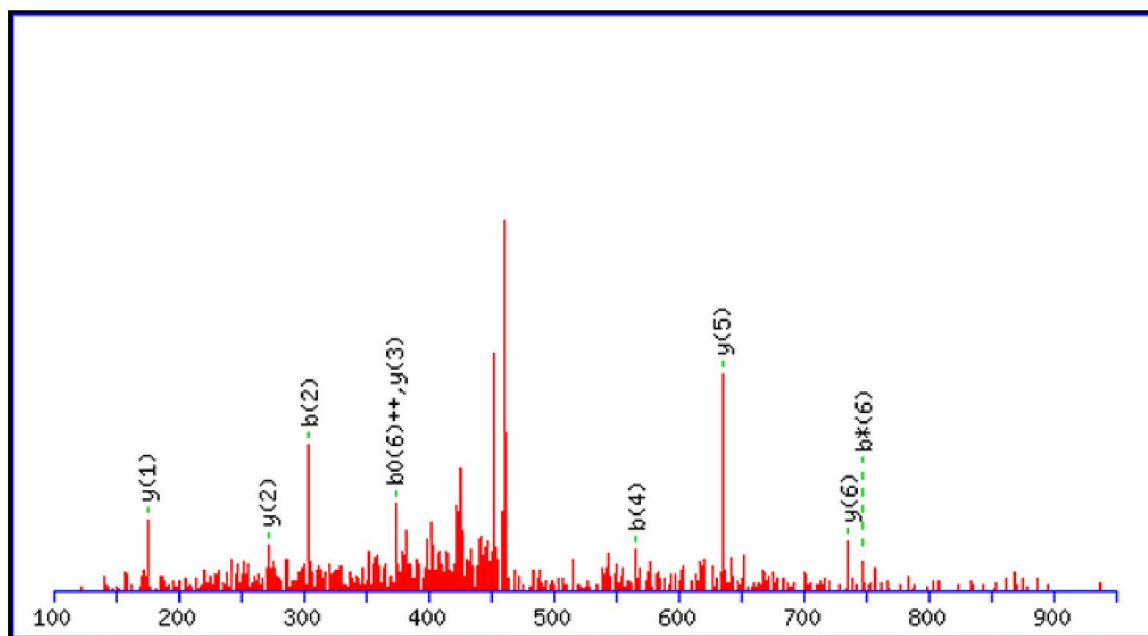
Found in **F2Z3C0**, 40S ribosomal protein S9 OS=Homo sapiens GN=RPS9 PE=2 SV=1

Match to Query 1869: 938.553448 from(470.284000,2+) intensity(16680.0313)

Title: File312 Spectrum4895 scans: 6186

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 937.5506

Fixed modifications: Carbamidomethyl

Variable modifications:

K1 : Propionyl-(13CD3)Methyl

Ions Score: 31 Expect: 0.18

Matches : 9/66 fragment ions

#	b	b ⁺⁺	b [*]	b ^{***}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							7
2	304.2140	152.6106	287.1874	144.0973	286.2034	143.6053	T	736.3988	368.7030	719.3723	360.1898	718.3883	359.6978	6
3	467.2773	234.1423	450.2507	225.6290	449.2667	225.1370	Y	635.3511	318.1792	618.3246	309.6659	617.3406	309.1739	5
4	566.3457	283.6765	549.3192	275.1632	548.3351	274.6712	V	472.2878	236.6475	455.2613	228.1343	454.2772	227.6423	4
5	667.3934	334.2003	650.3668	325.6871	649.3828	325.1951	T	373.2194	187.1133	356.1928	178.6001	355.2088	178.1081	3
6	764.4462	382.7267	747.4196	374.2134	746.4356	373.7214	P	272.1717	136.5895	255.1452	128.0762			2
7							R	175.1190	88.0631	158.0924	79.5498			1

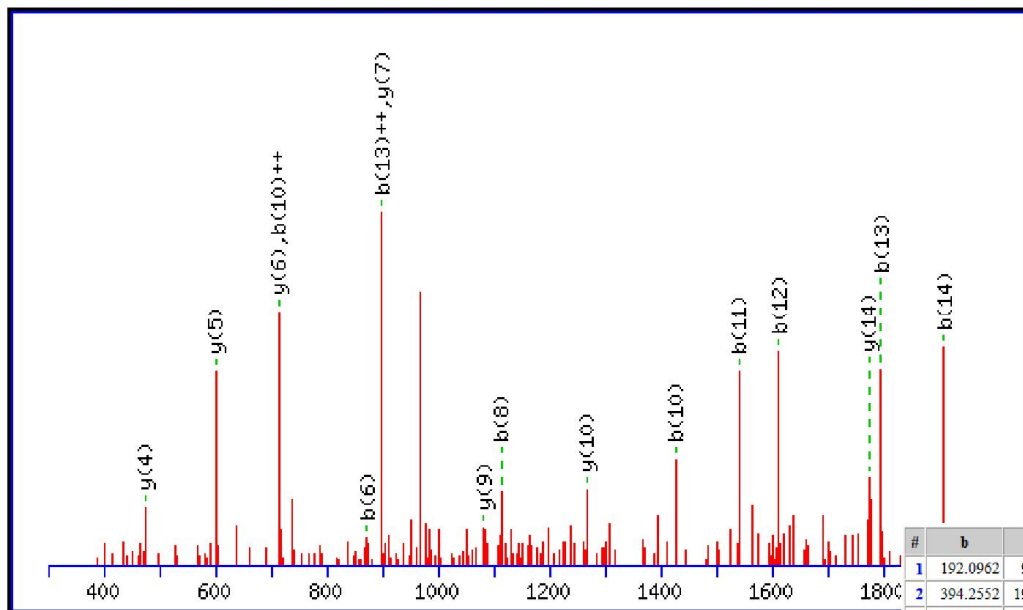
MS/MS Fragmentation of **IKETINNQEKLAQLQAVR**Found in **D6RDG3**, Transcription factor BTF3 (Fragment) OS=Homo sapiens GN=BTF3 PE=2 SV=1

Match to Query 18897: 2508.413668 from(1255.214110, 2+) intensity(430861.0313)

Title: File312 Spectrum19338 scans: 21701

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 2508.4109**Fixed modifications:** Carbamidomethyl (C) (apply to specified resid**Variable modifications:****M-term** : Propionyl (protein N-term) (Protein N-term)**M1** : Label:13C(1)2H(3) (M)**K2** : Propionyl-(13CD3)Methyl (K)**M6** : Label:13C(1)2H(3) (M)**K10** : Propionyl (K)**K13** : Propionyl (K)**Ions Score:** 68 **Expect:** 5.8e-005**Matches** : 16/190 fragment ions using 16 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	192.0962	96.5517					M							19
2	394.2552	197.6312	377.2286	189.1180			K	2318.3294	1159.6683	2301.3028	1151.1550	2300.3188	1150.6630	18
3	523.2978	262.1525	506.2712	253.6392	505.2872	253.1472	E	2116.1703	1058.5888	2099.1438	1050.0755	2098.1598	1049.5835	17
4	624.3454	312.6764	607.3189	304.1631	606.3349	303.6711	T	1987.1277	994.0675	1970.1012	985.5542	1969.1172	985.0622	16
5	737.4295	369.2184	720.4030	360.7051	719.4189	360.2131	I	1886.0801	943.5437	1869.0535	935.0304	1868.0695	934.5384	15
6	872.4922	436.7497	855.4656	428.2365	854.4816	427.7444	M	1772.9960	887.0016	1755.9695	878.4884	1754.9854	877.9964	14
7	986.5351	493.7712	969.5086	485.2579	968.5245	484.7659	N	1637.9333	819.4703	1620.9068	810.9570	1619.9228	810.4650	13
8	1114.5937	557.8005	1097.5671	549.2872	1096.5831	548.7952	Q	1523.8904	762.4488	1506.8639	753.9356	1505.8798	753.4436	12
9	1243.6363	621.8181	1226.6097	613.8085	1225.6257	613.3165	E	1395.8318	698.4196	1378.8053	689.9063	1377.8213	689.4143	11
10	1427.7575	714.3824	1410.7309	705.8691	1409.7469	705.3771	K	1266.7892	633.8983	1249.7627	625.3850			10
11	1540.8415	770.9244	1523.8150	762.4111	1522.8310	761.9191	L	1082.6681	541.8377	1065.6415	533.3244			9
12	1611.8786	806.4430	1594.8521	797.9297	1593.8681	797.4377	A	969.5840	485.2956	952.5574	476.7824			8
13	1795.9998	898.5035	1778.9733	889.9903	1777.9892	889.4983	K	898.5469	449.7771	881.5203	441.2638			7
14	1909.0839	955.0456	1892.0573	946.5323	1891.0733	946.0403	L	714.4257	357.7165	697.3992	349.2032			6
15	2037.1425	1019.0749	2020.1159	1010.5616	2019.1319	1010.0696	Q	601.3416	301.1745	584.3151	292.6612			5
16	2108.1796	1054.5934	2091.1530	1046.0801	2090.1690	1045.5881	A	473.2831	237.1452	456.2565	228.6319			4
17	2236.2381	1118.6227	2219.2116	1110.1094	2218.2276	1109.6174	Q	402.2459	201.6266	385.2194	193.1133			3
18	2335.3066	1168.1569	2318.2800	1159.6436	2317.2960	1159.1516	V	274.1874	137.5973	257.1608	129.0840			2
19							R	175.1190	88.0631	158.0924	79.5498			1

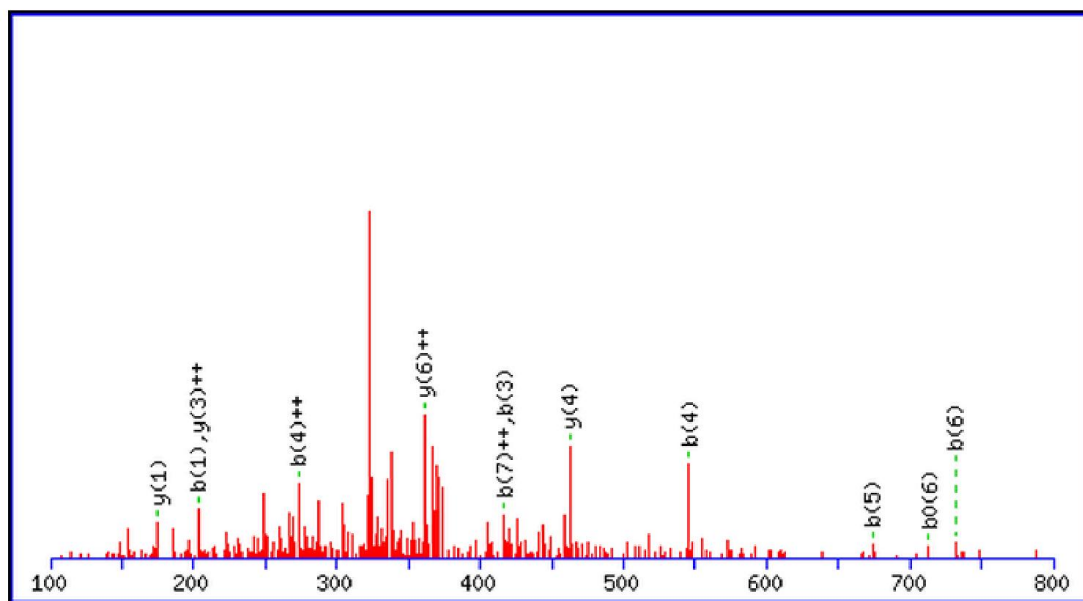
Found in **Q9UMN6**, Histone-lysine N-methyltransferase MLL4 OS=Homo sapiens GN=WBP7 PE=1 SV=1

Match to Query 4152: 1134.590742 from(379.204190,3+) intensity(7865.1655)

Title: File312 Spectrum512 scans: 1178

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1134.5902

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 32 Expect: 0.19

Matches : 12/88 fragment ions using 14 mo:

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							9
2	359.2674	180.1373	342.2409	171.6241			R	933.4384	467.2229	916.4119	458.7096	915.4279	458.2176	8
3	416.2889	208.6481	399.2623	200.1348			G	777.3373	389.1723	760.3108	380.6590	759.3268	380.1670	7
4	545.3315	273.1694	528.3049	264.6561	527.3209	264.1641	E	720.3159	360.6616	703.2893	352.1483	702.3053	351.6563	6
5	674.3741	337.6907	657.3475	329.1774	656.3635	328.6854	E	591.2733	296.1403	574.2467	287.6270	573.2627	287.1350	5
6	731.3955	366.2014	714.3690	357.6881	713.3849	357.1961	G	462.2307	231.6190	445.2041	223.1057	444.2201	222.6137	4
7	832.4432	416.7252	815.4166	408.2120	814.4326	407.7200	T	405.2092	203.1083	388.1827	194.5950	387.1987	194.1030	3
8	961.4858	481.2465	944.4592	472.7333	943.4752	472.2412	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
9							R	175.1190	88.0631	158.0924	79.5498			1

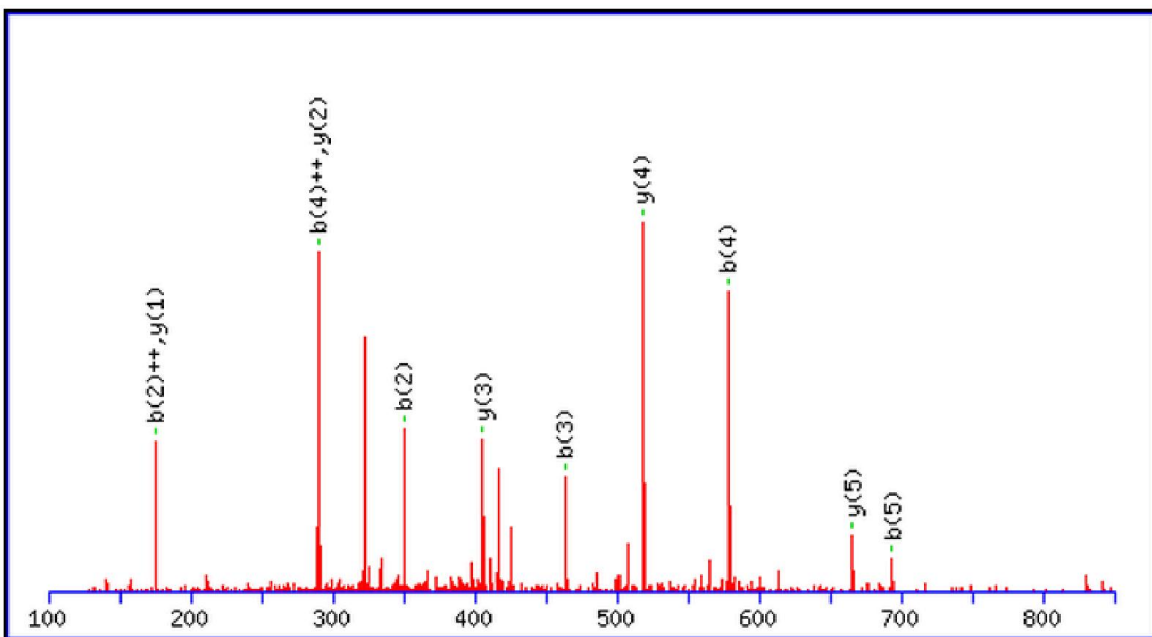
Found in **C9JQG7**, Chromodomain Y-like protein (Fragment) OS=Homo sapiens GN=CDYL PE=2 SV=1

Match to Query 1155: 866.476968 from(434.245760,2+) intensity(121829.0703)

Title: File312 Spectrum7538 scans: 9007

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 866.4771

Fixed modifications:

Variable modification

K1 : Propionyl-

Ions Score: 33 Expe

Matches : 11/52 frag

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							6
2	350.2347	175.6210	333.2082	167.1077			F	665.3253	333.1663	648.2988	324.6530	647.3148	324.1610	5
3	463.3188	232.1630	446.2922	223.6497			I	518.2569	259.6321	501.2304	251.1188	500.2463	250.6268	4
4	578.3457	289.6765	561.3192	281.1632	560.3351	280.6712	D	405.1728	203.0901	388.1463	194.5768	387.1623	194.0848	3
5	693.3727	347.1900	676.3461	338.6767	675.3621	338.1847	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
6							R	175.1190	88.0631	158.0924	79.5498			1

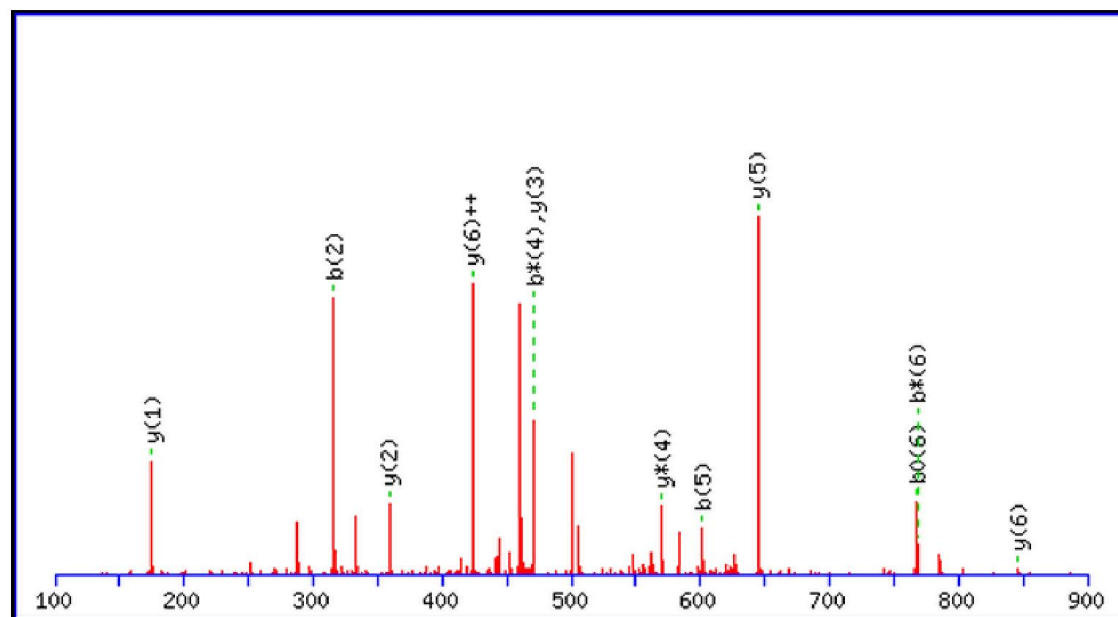
Found in **H0Y2S9**, Myosin phosphatase Rho-interacting protein (Fragment) OS=Homo sapiens GN=MPRIIP PE=4 SV=3

Match to Query 2132: 958.608608 from(480.311580,2+) intensity(2149818.2500)

Title: File312 Spectrum7671 scans: 9149

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 958.6084

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl

K6 : Propionyl (K)

Ions Score: 34 Expect: 0.057

Matches : 12/58 fragment ions us

	#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
	1	114.0913	57.5493					L							7
	2	316.2504	158.6288	299.2238	150.1155			K	846.5316	423.7694	829.5051	415.2562	828.5210	414.7642	6
	3	373.2718	187.1395	356.2453	178.6263			G	644.3726	322.6899	627.3461	314.1767	626.3620	313.6847	5
	4	488.2988	244.6530	471.2722	236.1397	470.2882	235.6477	D	587.3511	294.1792	570.3246	285.6659	569.3406	285.1739	4
	5	601.3828	301.1951	584.3563	292.6818	583.3723	292.1898	L	472.3242	236.6657	455.2976	228.1525			3
	6	785.5040	393.2556	768.4775	384.7424	767.4934	384.2504	K	359.2401	180.1237	342.2136	171.6104			2
	7							R	175.1190	88.0631	158.0924	79.5498			1

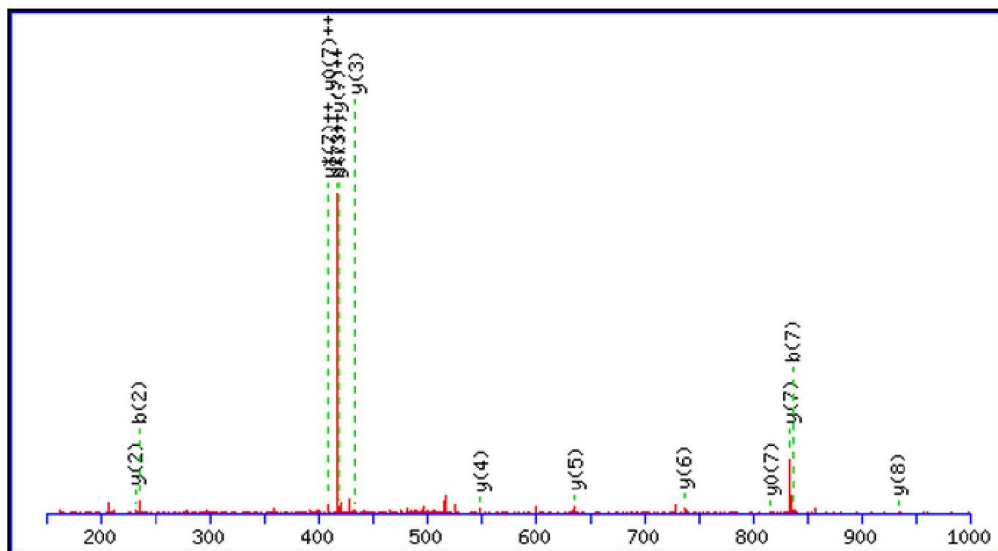
Found in **P13639**, Elongation factor 2 OS=Homo sapiens GN=EEF2 PE=1 SV=4

Match to Query 4071: 1067.582748 from(534.798650,2+) intensity(227659.8750)

Title: File340 Spectrum4474 scans: 5397

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr7-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1067.5827

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

Variable modifications:

M1 : Label:13C(1)2H(3) (M)

K7 : Propionyl-(13CD3)Methyl (K)

Ions Score: 21 Expect: 2.6

Matches : 15/72 fragment ions using 58 most int

#	b	b ⁺⁺	b*	b* ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y* ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	136.0699	68.5386					M							9
2	235.1384	118.0728					V	933.5273	467.2673	916.5007	458.7540	915.5167	458.2620	8
3	332.1911	166.5992					P	834.4588	417.7331	817.4323	409.2198	816.4483	408.7278	7
4	433.2388	217.1230			415.2282	208.1178	T	737.4061	369.2067	720.3795	360.6934	719.3955	360.2014	6
5	520.2708	260.6391			502.2603	251.6338	S	636.3584	318.6828	619.3319	310.1696	618.3478	309.6776	5
6	635.2978	318.1525			617.2872	309.1472	D	549.3264	275.1668	532.2998	266.6535	531.3158	266.1615	4
7	837.4568	419.2320	820.4302	410.7188	819.4462	410.2267	K	434.2994	217.6534	417.2729	209.1401			3
8	894.4783	447.7428	877.4517	439.2295	876.4677	438.7375	G	232.1404	116.5738	215.1139	108.0606			2
9							R	175.1190	88.0631	158.0924	79.5498			1

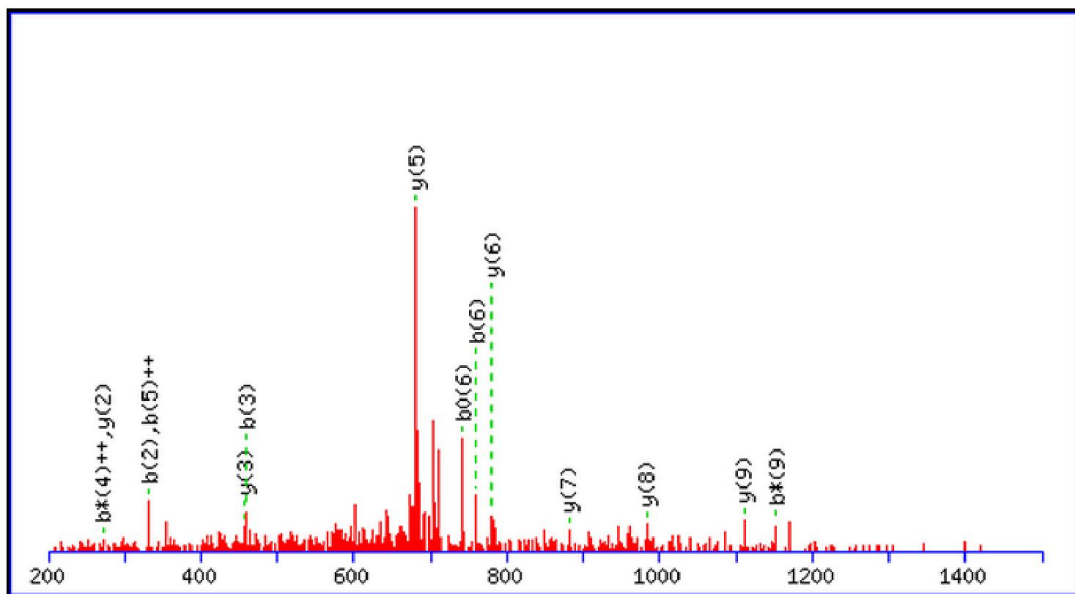
Found in **Q6R954**, Polymerase delta interacting protein 46 OS=Homo sapiens GN=PDIP46 PE=2 SV=1

Match to Query 8879: 1439.836288 from(720.925420,2+) intensity(24912.3145)

Title: File340 Spectrum6426 scans: 7483

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1439.8369

Fixed modifications: Carbamidomethyl (C) (a)

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

K9 : Propionyl (K)

Ions Score: 23 Expect: 1.9

Matches : 14/102 fragment ions using 47 mo

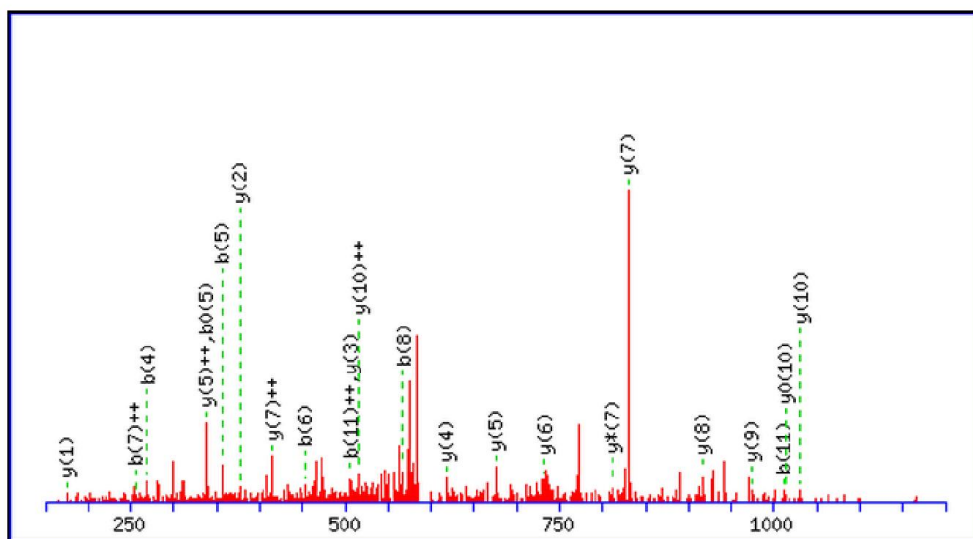
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							11
2	331.2249	166.1161	314.1983	157.6028			Q	1238.6852	619.8462	1221.6586	611.3329	1220.6746	610.8409	10
3	459.2834	230.1454	442.2569	221.6321			Q	1110.6266	555.8169	1093.6000	547.3037	1092.6160	546.8116	9
4	560.3311	280.6692	543.3046	272.1559	542.3206	271.6639	T	982.5680	491.7876	965.5415	483.2744	964.5574	482.7824	8
5	661.3788	331.1930	644.3523	322.6798	643.3682	322.1878	T	881.5203	441.2638	864.4938	432.7505	863.5098	432.2585	7
6	760.4472	380.7272	743.4207	372.2140	742.4367	371.7220	V	780.4727	390.7400	763.4461	382.2267			6
7	857.5000	429.2536	840.4734	420.7404	839.4894	420.2483	P	681.4042	341.2058	664.3777	332.6925			5
8	985.5586	493.2829	968.5320	484.7696	967.5480	484.2776	Q	584.3515	292.6794	567.3249	284.1661			4
9	1169.6797	585.3435	1152.6532	576.8302	1151.6692	576.3382	K	456.2929	228.6501	439.2663	220.1368			3
10	1266.7325	633.8699	1249.7060	625.3566	1248.7219	624.8646	P	272.1717	136.5895	255.1452	128.0762			2
11							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 5445: 1183.657328 from(592.835940,2+) intensity(31017.3262)

Title: File340 Spectrum5712 scans: 6722

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZWk562\2013-5-23-K562-Kpropio-methyl-IP-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1183.6582

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

Variable modifications:

K11 : Propionyl-(13CD3)Methyl (K)

Ions Score: 33 Expect: 0.2

Matches : 23/92 fragment ions using 87 most in

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							12
2	155.0815	78.0444					P	1127.6440	564.3256	1110.6175	555.8124	1109.6335	555.3204	11
3	212.1030	106.5551					G	1030.5913	515.7993	1013.5647	507.2860	1012.5807	506.7940	10
4	269.1244	135.0659					G	973.5698	487.2885	956.5432	478.7753	955.5592	478.2833	9
5	356.1565	178.5819			338.1459	169.5766	S	916.5483	458.7778	899.5218	450.2645	898.5378	449.7725	8
6	453.2092	227.1083			435.1987	218.1030	P	829.5163	415.2618	812.4897	406.7485			7
7	510.2307	255.6190			492.2201	246.6137	G	732.4635	366.7354	715.4370	358.2221			6
8	567.2522	284.1297			549.2416	275.1244	G	675.4421	338.2247	658.4155	329.7114			5
9	680.3362	340.6717			662.3257	331.6665	L	618.4206	309.7139	601.3941	301.2007			4
10	808.3948	404.7010	791.3682	396.1878	790.3842	395.6958	Q	505.3365	253.1719	488.3100	244.6586			3
11	1010.5538	505.7805	993.5273	497.2673	992.5432	496.7753	K	377.2780	189.1426	360.2514	180.6293			2
12							R	175.1190	88.0631	158.0924	79.5498			1

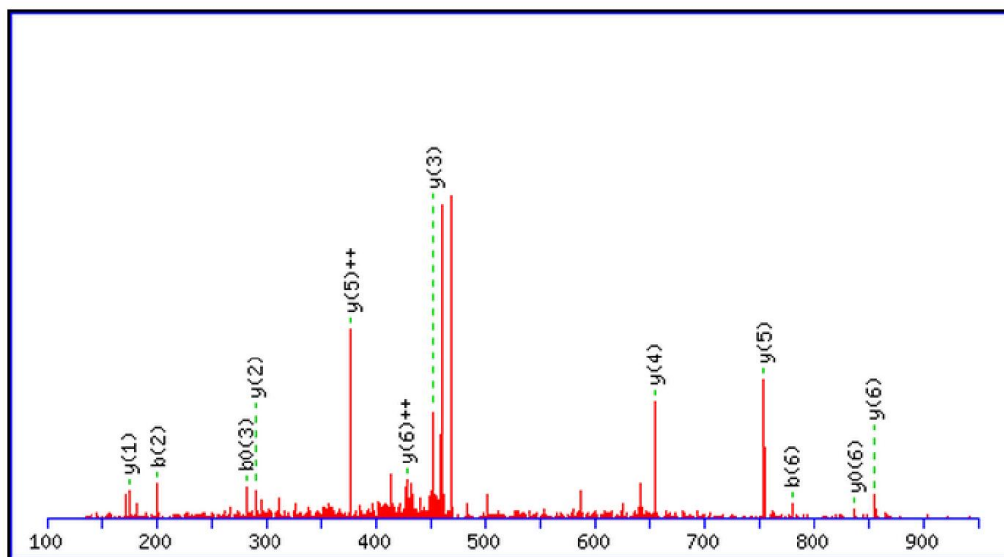
Found in **K7EJB8**, Protein phosphatase 1 regulatory subunit 14A OS=Homo sapiens GN=PPP1R14A PE=4 SV=1

Match to Query 2516: 953.545568 from(477.780060,2+) intensity(46758.8008)

Title: File340 Spectrum5861 scans: 6881

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr7-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 953.5455

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

Variable modifications:

K4 : Propionyl-(J3CN3)Methyl (K)

Ions Score: 39 Expec

Matches : 12/62 fragm

#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							7
2	201.1234	101.0653			183.1128	92.0600	T	855.4843	428.2458	838.4578	419.7325	837.4738	419.2405	6
3	300.1918	150.5995			282.1812	141.5942	V	754.4367	377.7220	737.4101	369.2087	736.4261	368.7167	5
4	502.3508	251.6790	485.3242	243.1658	484.3402	242.6738	K	655.3682	328.1878	638.3417	319.6745	637.3577	319.1825	4
5	665.4141	333.2107	648.3876	324.6974	647.4036	324.2054	Y	453.2092	227.1082	436.1827	218.5950	435.1987	218.1030	3
6	780.4411	390.7242	763.4145	382.2109	762.4305	381.7189	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
7							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **LAKKTAEEPAASGR**

Found in **Q9NQS7**, Inner centromere protein OS=Homo sapiens GN=INCENP PE=1 SV=3

Match to Query 9030: 1557.863248 from(779.938900,2+) intensity(19372.4043)

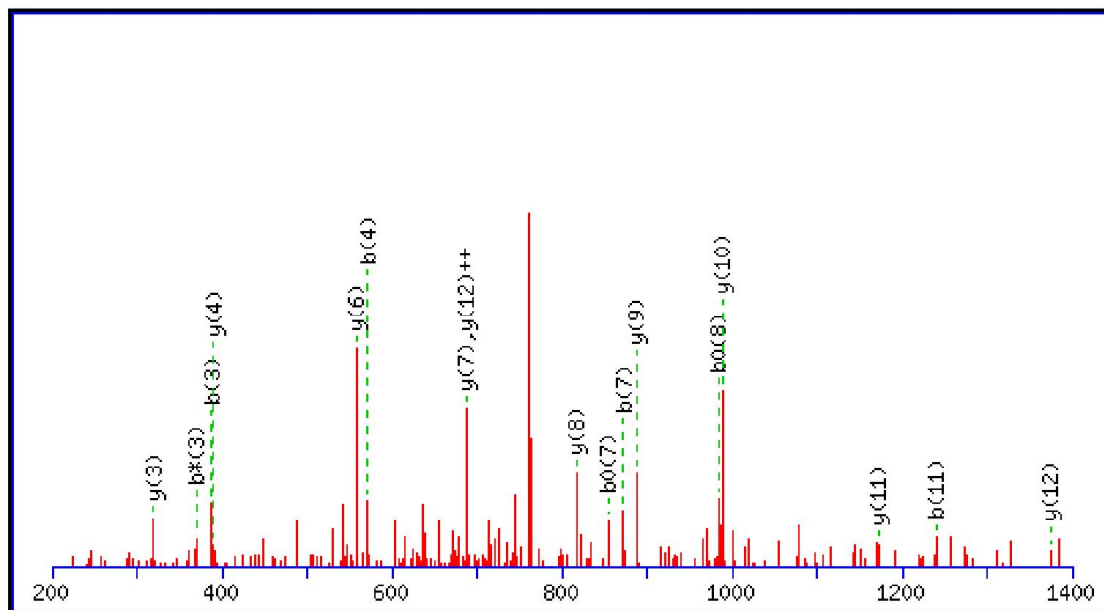
Title: File309 Spectrum5796 scans: 7064

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr6-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1557.8635

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

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

K4 : Propionyl (K)

Ions Score: 51 Expect: 0.0039

Matches : 17/140 fragment ions using 36 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							14
2	185.1285	93.0679					A	1445.7867	723.3970	1428.7602	714.8837	1427.7762	714.3917	13
3	387.2875	194.1474	370.2609	185.6341			K	1374.7496	687.8788	1357.7231	679.3652	1356.7390	678.8732	12
4	571.4086	286.2080	554.3821	277.6947			K	1172.5906	586.7989	1156.5640	578.2857	1154.5800	577.7937	11
5	672.4563	336.7318	655.4298	328.2185	654.4458	327.7265	T	988.4694	494.7383	971.4429	486.2251	970.4588	485.7331	10
6	743.4934	372.2504	726.4669	363.7371	725.4829	363.2451	A	887.4217	444.2145	870.3952	435.7012	869.4112	435.2092	9
7	872.5360	436.7717	855.5095	428.2589	854.5255	427.7664	E	816.3846	408.6959	799.3581	400.1827	798.3741	399.6907	8
8	1001.5786	501.2930	984.5521	492.7797	983.5681	492.2877	E	687.3420	344.1747	670.3155	335.6614	669.3315	335.1694	7
9	1098.6314	549.8193	1081.6048	541.3061	1080.6208	540.8140	P	558.2994	279.6534	541.2729	271.1401	540.2839	270.6481	6
10	1169.6685	585.3379	1152.6420	576.8246	1151.6579	576.3326	A	461.2467	231.1270	444.2201	222.6137	443.2361	222.1217	5
11	1240.7056	620.8564	1223.6791	612.3432	1222.6951	611.8512	A	390.2095	195.6084	373.1830	187.0951	372.1990	186.6031	4
12	1327.7376	664.3725	1310.7111	655.8592	1309.7271	655.3672	S	319.1724	160.0899	302.1459	151.5766	301.1619	151.0846	3
13	1384.7591	692.8832	1367.7326	684.3699	1366.7485	683.8779	C	232.1494	116.5738	215.1139	108.0606			2
14							R	175.1190	88.0631	158.0924	79.5498			1

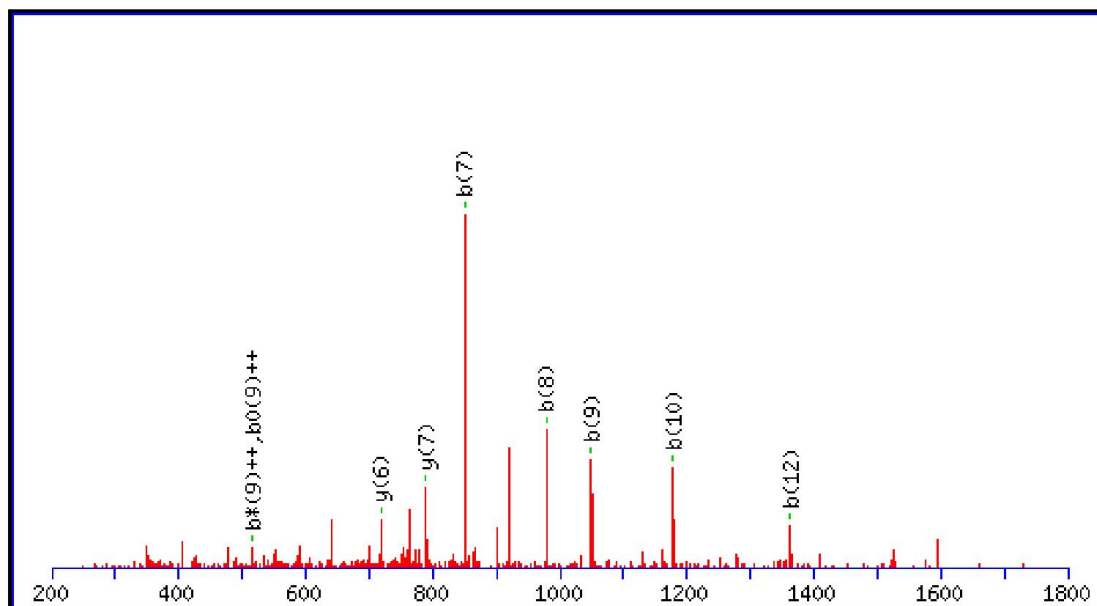
Found in **Q5JZB7**, Spindlin-2B OS=Homo sapiens GN=SPIN2B PE=2 SV=1

Match to Query 11948: 1765.876448 from(883.945500, 2+) intensity(111218.6563)

Title: File309 Spectrum8373 scans: 9815

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1765.8810
Fixed modifications: Carbamidomethyl (C) (apply to specified r
Variable modifications:
M1 : Label:13C(1)2H(3) (M)
K2 : Propionyl-(13CD3)Methyl (K)
Ions Score: 23 **Expect:** 1.9
Matches : 9/160 fragment ions using 15 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	136.0699	68.5386					M							15
2	338.2290	169.6181	321.2024	161.1048			K	1631.8256	816.4165	1614.7991	807.9032	1613.8151	807.4112	14
3	439.2766	220.1420	422.2501	211.6287	421.2661	211.1367	T	1429.6666	715.3369	1412.6401	706.8237	1411.6560	706.3317	13
4	536.3294	268.6683	519.3029	260.1551	518.3188	259.6631	P	1328.6189	664.8131	1311.5924	656.2998	1310.6084	655.8078	12
5	650.3723	325.6898	633.3458	317.1765	632.3618	316.6845	N	1231.5662	616.2867	1214.5396	607.7734	1213.5556	607.2814	11
6	721.4094	361.2084	704.3829	352.6951	703.3989	352.2031	A	1117.5232	559.2653	1100.4967	550.7520	1099.5127	550.2600	10
7	849.4680	425.2376	832.4415	416.7244	831.4575	416.2324	Q	1046.4861	523.7467	1029.4596	515.2334	1028.4756	514.7414	9
8	978.5106	489.7589	961.4841	481.2457	960.5000	480.7537	E	918.4276	459.7174	901.4010	451.2041	900.4170	450.7121	8
9	1049.5477	525.2775	1032.5212	516.7642	1031.5372	516.2722	A	789.3850	395.1961	772.3584	386.6828	771.3744	386.1908	7
10	1178.5907	589.7988	1161.5638	581.2855	1160.5798	580.7935	E	718.3478	359.6776	701.3213	351.1643	700.3373	350.6723	6
11	1235.6118	618.3095	1218.5852	609.7963	1217.6012	609.3042	G	589.3053	295.1563	572.2787	286.6430	571.2947	286.1510	5
12	1363.6704	682.3388	1346.6438	673.8255	1345.6598	673.3335	Q	532.2838	266.6455	515.2572	258.1323	514.2732	257.6402	4
13	1491.7289	746.3681	1474.7024	737.8548	1473.7184	737.3628	Q	404.2252	202.6162	387.1987	194.1030	386.2146	193.6110	3
14	1592.7766	796.8919	1575.7501	788.3787	1574.7661	787.8867	T	276.1666	138.5870	259.1401	130.0737	258.1561	129.5817	2
15							R	175.1190	88.0631	158.0924	79.5498			1

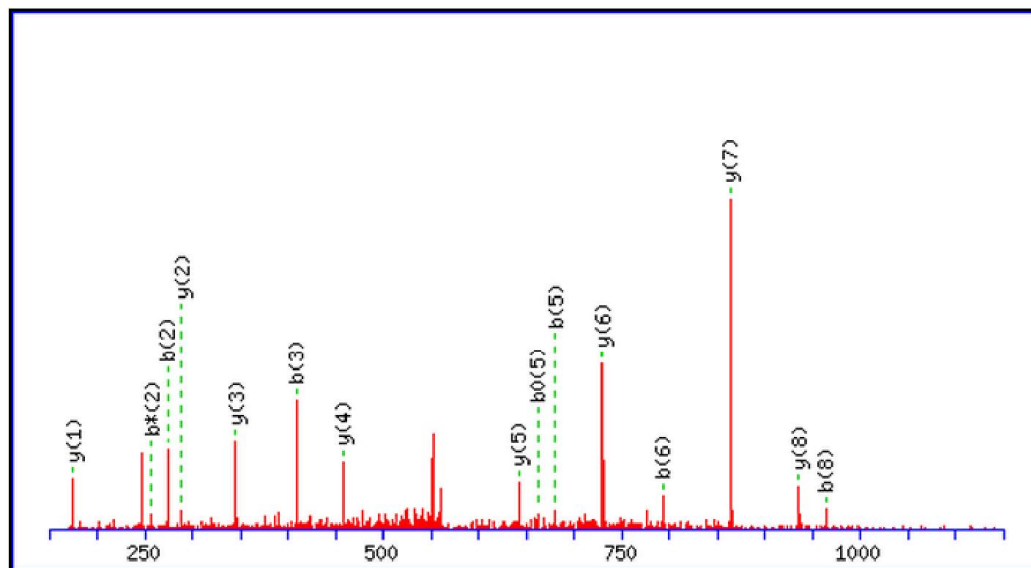
Found in **H0YHX9**, Nascent polypeptide-associated complex subunit alpha (Fragment) OS=Homo sapiens GN=NACA PE=2 SV=1

Match to Query 5366: 1136.712748 from(569.363650,2+) intensity(117938.2891)

Title: File320 Spectrum12847 scans: 14333

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZWk562\2013-5-23-562-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1136.7127

Fixed modifications: Ca:

Variable modifications:

K1 : Propionyl-(13C)

M3 : Label:13C(1)2H

K5 : Propionyl (K)

Ions Score: 57 Expect:

Matches : 15/80 fragmen:

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							9
2	274.2034	137.6053	257.1769	129.0921			A	935.5615	468.2844	918.5350	459.7711	917.5510	459.2791	8
3	409.2661	205.1367	392.2395	196.6234			M	864.5244	432.7658	847.4979	424.2526	846.5139	423.7606	7
4	496.2981	248.6527	479.2716	240.1394	478.2875	239.6474	S	729.4618	365.2345	712.4352	356.7212	711.4512	356.2292	6
5	680.4193	340.7133	663.3927	332.2000	662.4087	331.7080	K	642.4297	321.7185	625.4032	313.2052			5
6	793.5033	397.2553	776.4768	388.7420	775.4928	388.2500	L	458.3085	229.6579	441.2820	221.1446			4
7	850.5248	425.7660	833.4983	417.2528	832.5142	416.7608	G	345.2245	173.1159	328.1979	164.6026			3
8	963.6089	482.3081	946.5823	473.7948	945.5983	473.3028	L	288.2030	144.6051	271.1765	136.0919			2
9							R	175.1190	88.0631	158.0924	79.5498			1

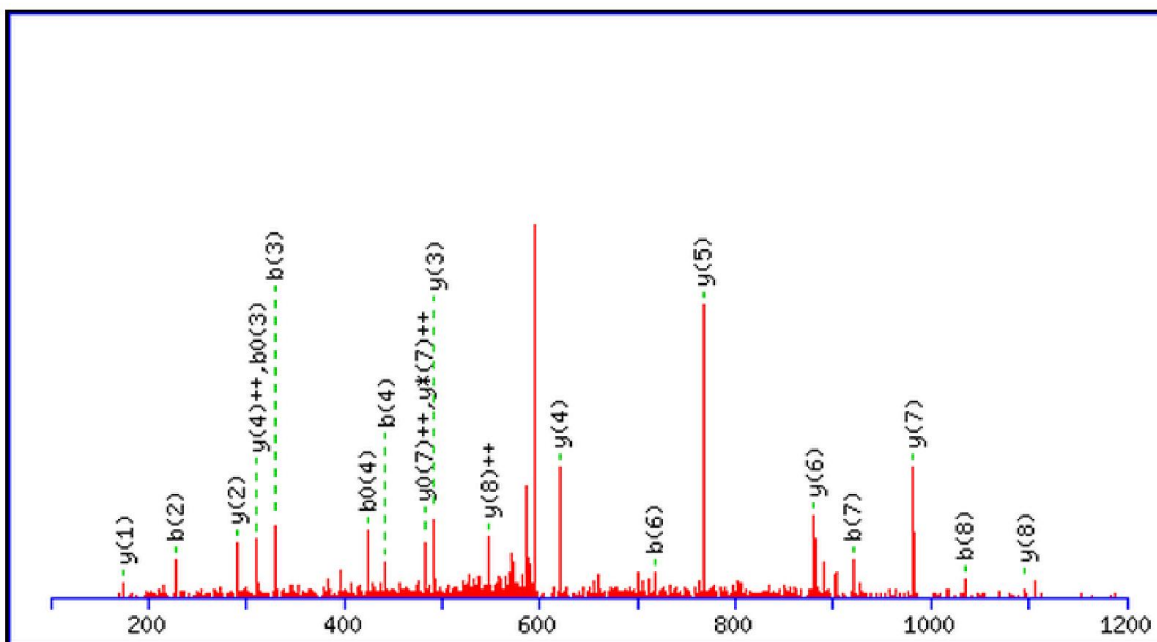
Found in **I3L3Z8**, Pre-mRNA-processing-splicing factor 8 (Fragment) OS=Homo sapiens GN=PRPF8 PE=4 SV=1

Match to Query 6346: 1207.681608 from(604.848080,2+) intensity(116592.1484)

Title: File320 Spectrum12819 scans: 14303

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZWk562\2013-5-23-562-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr (k)

Fixed modifications: Carbamidomethyl (C)

Variable modifications:

K7 : Propionyl-(13CD3)Methyl (K)

Ions Score: 58 Expect: 0.00062

Matches : 20/88 fragment ions using 32 m/z

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					I							9
2	228.1343	114.5708	211.1077	106.0575			N	1095.6066	548.3069	1078.5800	539.7936	1077.5960	539.3016	8
3	329.1819	165.0946	312.1554	156.5813	311.1714	156.0893	T	981.5636	491.2855	964.5371	482.7722	963.5531	482.2802	7
4	442.2660	221.6366	425.2395	213.1234	424.2554	212.6314	L	880.5160	440.7616	863.4894	432.2483	862.5054	431.7563	6
5	589.3344	295.1709	572.3079	286.6576	571.3239	286.1656	F	767.4319	384.2196	750.4054	375.7063	749.4213	375.2143	5
6	717.3930	359.2001	700.3665	350.6869	699.3824	350.1949	Q	620.3635	310.6854	603.3369	302.1721	602.3529	301.6801	4
7	919.5520	460.2796	902.5255	451.7664	901.5414	451.2744	K	492.3049	246.6561	475.2784	238.1428	474.2943	237.6508	3
8	1034.5790	517.7931	1017.5524	509.2798	1016.5684	508.7878	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
9							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 5640: 1158.688948 from(580.351750,2+) intensity(56163.8398)

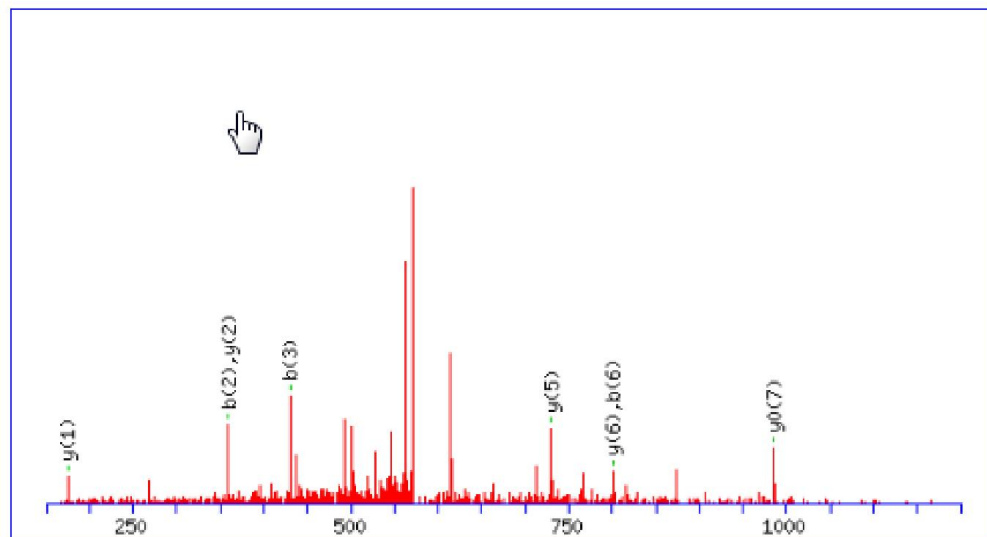
Title: File320 Spectrum9130 scans: 10367

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-562-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, 150 to 1200 Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1158.6993

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K7 : Propionyl (K)

Ions Score: 31 Expect: 0.23

Matches : 9/72 fragment ions using 10 most intense peaks

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	157.1084	79.0578	140.0818	70.5446			R							8
2	359.2674	180.1373	342.2409	171.6241			K	1003.6055	502.3064	986.5790	493.7931	985.5949	493.3011	7
3	430.3045	215.6559	413.2780	207.1426			A	801.4465	401.2269	784.4199	392.7136	783.4359	392.2216	6
4	543.3886	272.1979	526.3620	263.6847			L	730.4094	365.7083	713.3828	357.1951	712.3988	356.7030	5
5	672.4312	336.7192	655.4046	328.2059	654.4206	327.7139	E	617.3253	309.1663	600.2988	300.6530	599.3148	300.1610	4
6	801.4738	401.2405	784.4472	392.7272	783.4632	392.2352	E	488.2827	244.6450	471.2562	236.1317	470.2722	235.6397	3
7	985.5949	493.3011	968.5684	484.7878	967.5844	484.2958	K	359.2401	180.1237	342.2136	171.6104			2
8							R	175.1190	88.0637	158.0924	79.5498			1

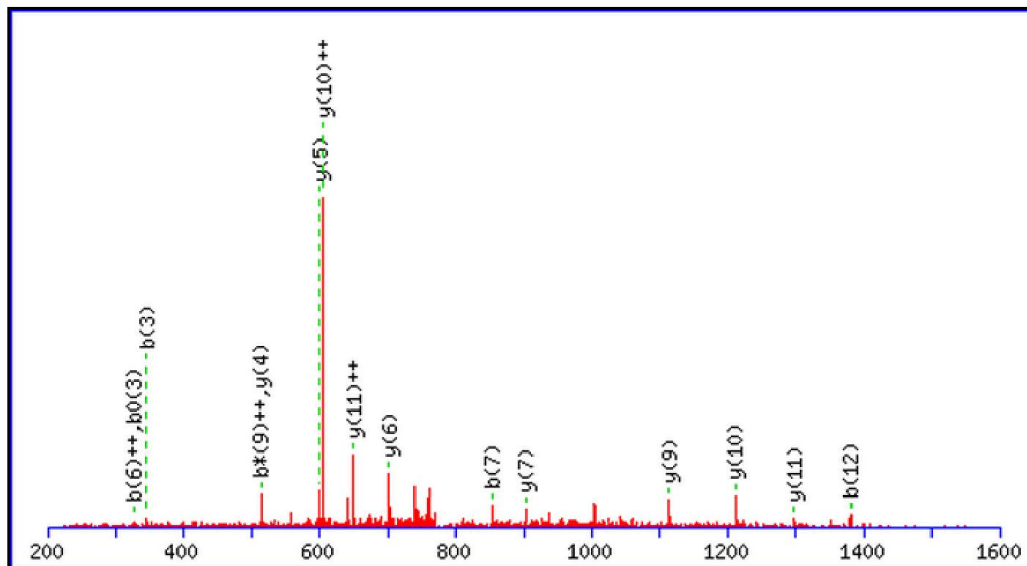
Found in **Q9UMN6**, Histone-lysine N-methyltransferase MLL4 OS=Homo sapiens GN=WBP7 PE=1 SV=1

Match to Query 11378: 1553.887548 from(777.951050,2+) intensity(126050.6250)

Title: File320 Spectrum13553 scans: 15086

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-562-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1553.8838

Fixed modifications: Carbamidomethyl (C) (apply to all)

Variable modifications:

K7 : Propionyl-(13CD3)Methyl (K)

Ions Score: 37 Expect: 0.088

Matches : 15/120 fragment ions using 28 most intense

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	187.0866	94.0469					W							13
2	258.1237	129.5655					A	1368.8118	684.9095	1351.7853	676.3963	1350.8012	675.9043	12
3	345.1557	173.0815			327.1452	164.0762	S	1297.7747	649.3910	1280.7481	640.8777	1279.7641	640.3857	11
4	442.2085	221.6079			424.1979	212.6026	P	1210.7427	605.8750	1193.7161	597.3617	1192.7321	596.8697	10
5	539.2613	270.1343			521.2507	261.1290	P	1113.6899	557.3486	1096.6634	548.8353	1095.6793	548.3433	9
6	652.3453	326.6763			634.3348	317.6710	L	1016.6371	508.8222	999.6106	500.3089	998.6266	499.8169	8
7	854.5043	427.7558	837.4778	419.2425	836.4938	418.7505	K	903.5531	452.2802	886.5265	443.7669	885.5425	443.2749	7
8	955.5520	478.2796	938.5255	469.7664	937.5415	469.2744	T	701.3941	351.2007	684.3675	342.6874	683.3835	342.1954	6
9	1042.5840	521.7957	1025.5575	513.2824	1024.5735	512.7904	S	600.3464	300.6768	583.3198	292.1636	582.3358	291.6715	5
10	1139.6368	570.3220	1122.6103	561.8088	1121.6262	561.3168	P	513.3144	257.1608	496.2878	248.6475			4
11	1267.6954	634.3513	1250.6688	625.8381	1249.6848	625.3460	Q	416.2616	208.6344	399.2350	200.1212			3
12	1380.7794	690.8934	1363.7529	682.3801	1362.7689	681.8881	L	288.2030	144.6051	271.1765	136.0919			2
13							R	175.1190	88.0631	158.0924	79.5498			1

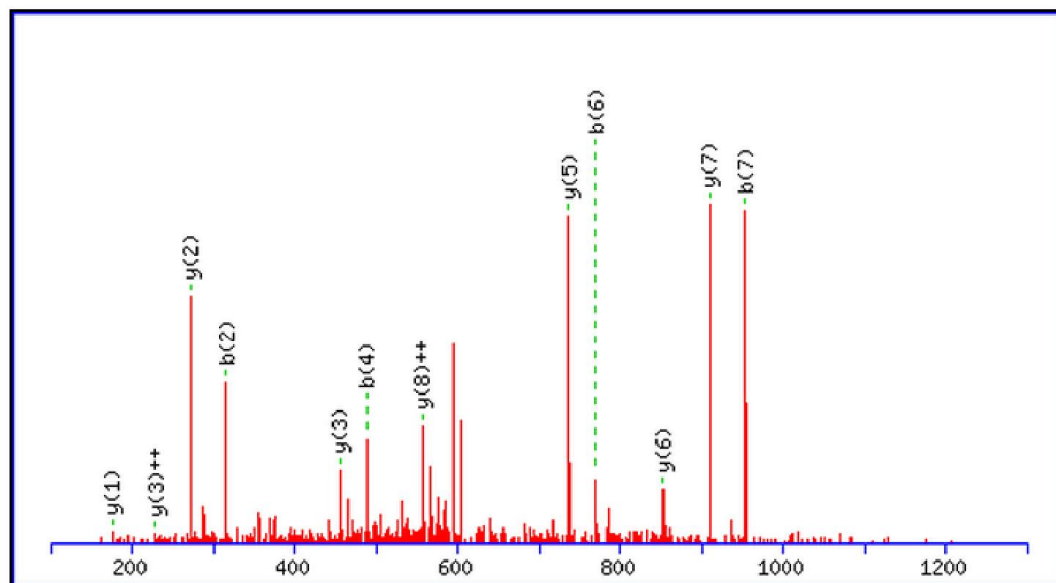
Found in **B2RPK0**, Putative high mobility group protein B1-like 1 OS=Homo sapiens GN=HMGB1P1 PE=5 SV=1

Match to Query 6613: 1223.714208 from(612.864380,2+) intensity(135332.8750)

Title: File320 Spectrum9934 scans: 11226

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-562-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1223.7146

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

Variable modifications:

N-term : Propionyl (protein N-term)

K2 : Propionyl-(13CD3)Methyl (K)

K6 : Propionyl (K)

K7 : Propionyl (K)

Ions Score: 37 Expect: 0.068

Matches : 12/78 fragment ions using

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0550	57.5311					G							9
2	316.2140	158.6106	299.1874	150.0973			K	1111.6743	556.3408	1094.6477	547.8275	1093.6637	547.3355	8
3	373.2354	187.1214	356.2089	178.6081			G	909.5152	455.2613	892.4887	446.7480	891.5047	446.2560	7
4	488.2624	244.6348	471.2358	236.1216	470.2518	235.6295	D	852.4938	426.7505	835.4672	418.2373	834.4832	417.7452	6
5	585.3151	293.1612	568.2886	284.6479	567.3046	284.1559	P	737.4668	369.2371	720.4403	360.7238			5
6	769.4363	385.2218	752.4098	376.7085	751.4258	376.2165	K	640.4141	320.7107	623.3875	312.1974			4
7	953.5575	477.2824	936.5309	468.7691	935.5469	468.2771	K	456.2929	228.6501	439.2663	220.1368			3
8	1050.6103	525.8088	1033.5837	517.2955	1032.5997	516.8035	P	272.1717	136.5895	255.1452	128.0762			2
9							R	175.1190	88.0631	158.0924	79.5498			1

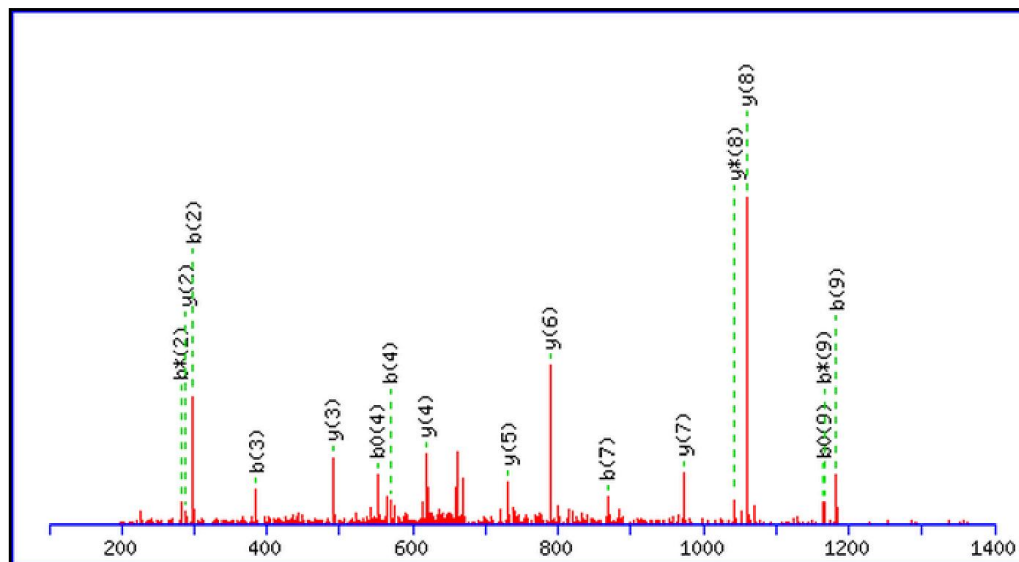
Found in **B4DX32**, DNA/RNA-binding protein KIN17 OS=Homo sapiens GN=KIN PE=2 SV=1

Match to Query 8520: 1355.876928 from(678.945740,2+) intensity(285733.1250)

Title: File320 Spectrum13216 scans: 14727

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-562-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1355.8773

Fixed modifications: Carbamido

Variable modifications:

K2 : Propionyl (K)

K4 : Propionyl (K)

K8 : Propionyl-(13CD3)Meth

Ions Score: 39 Expect: 0.0083

Matches : 17/88 fragment ions

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					I							10
2	298.2125	149.6099	281.1860	141.0966			K	1243.8005	622.4039	1226.7740	613.8906	1225.7900	613.3986	9
3	385.2445	193.1259	368.2180	184.6126	367.2340	184.1206	S	1059.6793	530.3433	1042.6528	521.8300	1041.6688	521.3380	8
4	569.3657	285.1865	552.3392	276.6732	551.3552	276.1812	K	972.6473	486.8273	955.6208	478.3140			7
5	626.3872	313.6972	609.3606	305.1840	608.3766	304.6919	G	788.5261	394.7667	771.4996	386.2534			6
6	739.4713	370.2393	722.4447	361.7260	721.4607	361.2340	L	731.5047	366.2560	714.4781	357.7427			5
7	867.5298	434.2686	850.5033	425.7553	849.5193	425.2633	Q	618.4206	309.7139	601.3941	301.2007			4
8	1069.6888	535.3481	1052.6623	526.8348	1051.6783	526.3428	K	490.3620	245.6847	473.3355	237.1714			3
9	1182.7729	591.8901	1165.7464	583.3768	1164.7623	582.8848	L	288.2030	144.6051	271.1765	136.0919			2
10							R	175.1190	88.0631	158.0924	79.5498			1

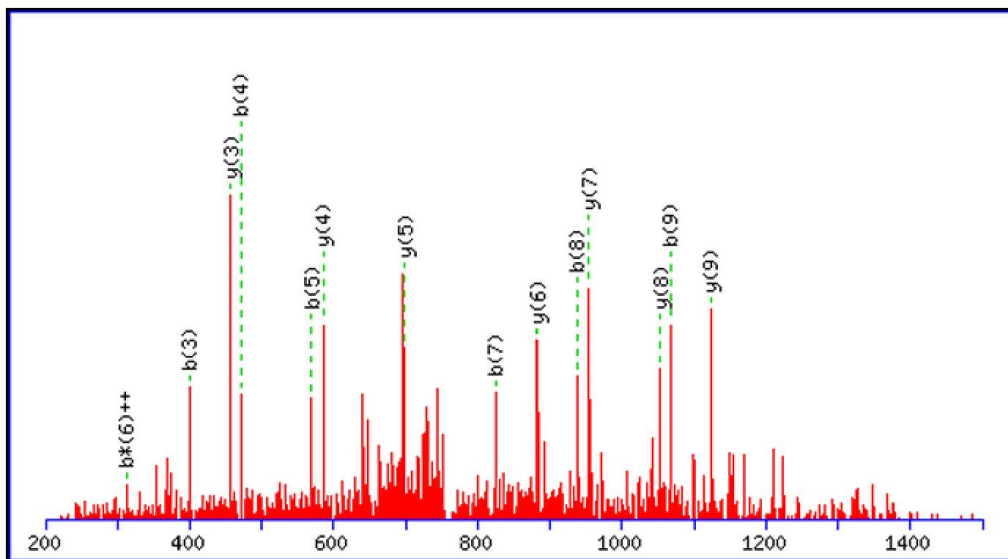
Found in **Q9C0D4**, Zinc finger protein 518B OS=Homo sapiens GN=ZNF518B PE=2 SV=2

Match to Query 10987: 1520.958708 from(761.486630,2+) intensity(53742.7578)

Title: File320 Spectrum13604 scans: 15140

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-562-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1520.9563

Fixed modifications: Carbamidomethyl (C) (a)

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

K7 : Propionyl (K)

K11 : Propionyl (K)

Ions Score: 40 Expect: 0.0085

Matches : 14/106 fragment ions using 26 mos

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	98.0600	49.5337					P							12
2	197.1285	99.0679					V	1424.9108	712.9590	1407.8842	704.4458	1406.9002	703.9538	11
3	399.2875	200.1474	382.2609	191.6341			K	1325.8424	663.4248	1308.8158	654.9116	1307.8318	654.4195	10
4	470.3246	235.6659	453.2980	227.1527			A	1123.6834	562.3453	1106.6568	553.8320	1105.6728	553.3400	9
5	569.3930	285.2001	552.3664	276.6869			V	1052.6463	526.8268	1035.6197	518.3135	1034.6357	517.8215	8
6	640.4301	320.7187	623.4036	312.2054			A	953.5778	477.2926	936.5513	468.7793	935.5673	468.2873	7
7	824.5513	412.7793	807.5247	404.2660			K	882.5407	441.7740	865.5142	433.2607	864.5302	432.7687	6
8	937.6354	469.3213	920.6088	460.8080			L	698.4196	349.7134	681.3930	341.2001	680.4090	340.7081	5
9	1066.6779	533.8426	1049.6514	525.3293	1048.6674	524.8373	E	585.3355	293.1714	568.3089	284.6581	567.3249	284.1661	4
10	1163.7307	582.3690	1146.7042	573.8557	1145.7201	573.3637	P	456.2929	228.6501	439.2663	220.1368			3
11	1347.8519	674.4296	1330.8253	665.9163	1329.8413	665.4243	K	359.2401	180.1237	342.2136	171.6104			2
12							R	175.1190	88.0631	158.0924	79.5498			1

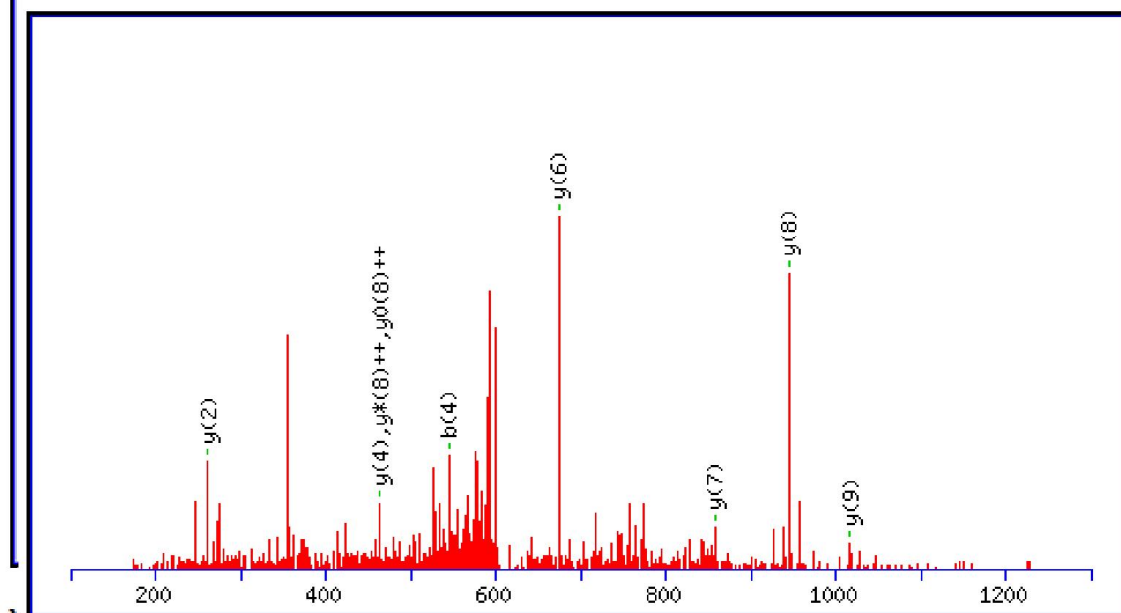
Found in **Q9Y483**, Metal-response element-binding transcription factor 2 OS=Homo sapiens GN=MTF2 PE=1 SV=2MS/MS Fragmentation of **KASKPISDSR**Found in **Q9Y483**, Metal-response element-binding transcription factor 2 OS=Homo sapiens GN=MTF2 PE=1 SV=2

Match to Query 6483: 1217.688568 from(609.851560, 2+) intensity(39773.0859)

Title: File320 Spectrum5673 scans: 6673

(Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-562-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, Plot from to DaLabel all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc):

Fixed modifications: Carbamidomethyl (C) (apply to

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

K4 : Propionyl (K)

Ions Score: 40 Expect: 0.039

Matches : 9/102 fragment ions using 10 most intense p

#	b	b ⁺⁺	b ⁺	b ⁺ ++	b ⁰	b ⁰ ++	Seq.	y	y ⁺⁺	y [*]	y [*] ++	y ⁰	y ⁰ ++	#
1	203.1663	102.0868	186.1397	93.5735			K							10
2	274.2034	137.6053	257.1769	129.0921			A	1016.5371	508.7722	999.5106	500.2589	998.5265	499.7669	9
3	361.2354	181.1214	344.2089	172.6081	343.2249	172.1161	S	945.5000	473.2536	928.4734	464.7404	927.4894	464.2483	8
4	545.3566	273.1819	528.3301	264.6687	527.3460	264.1767	K	858.4680	429.7376	841.4414	421.2243	840.4574	420.7323	7
5	642.4094	321.7083	625.3828	313.1951	624.3988	312.7030	P	674.3468	337.6770	657.3202	329.1638	656.3362	328.6717	6
6	755.4934	373.2504	738.4669	369.7371	737.4829	369.2451	I	577.2940	289.1506	560.2675	280.6374	559.2835	280.1454	5
7	842.5255	421.7664	825.4989	413.2531	824.5149	412.7611	S	464.2100	232.6086	447.1834	224.0953	446.1994	223.6033	4
8	957.5524	479.2798	940.5259	470.7666	939.5418	470.2746	D	377.1779	189.0926	360.1514	180.5793	359.1674	180.0873	3
9	1044.5844	522.7959	1027.5579	514.2826	1026.5739	513.7906	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
10							R	175.1190	88.0631	158.0924	79.5498			1

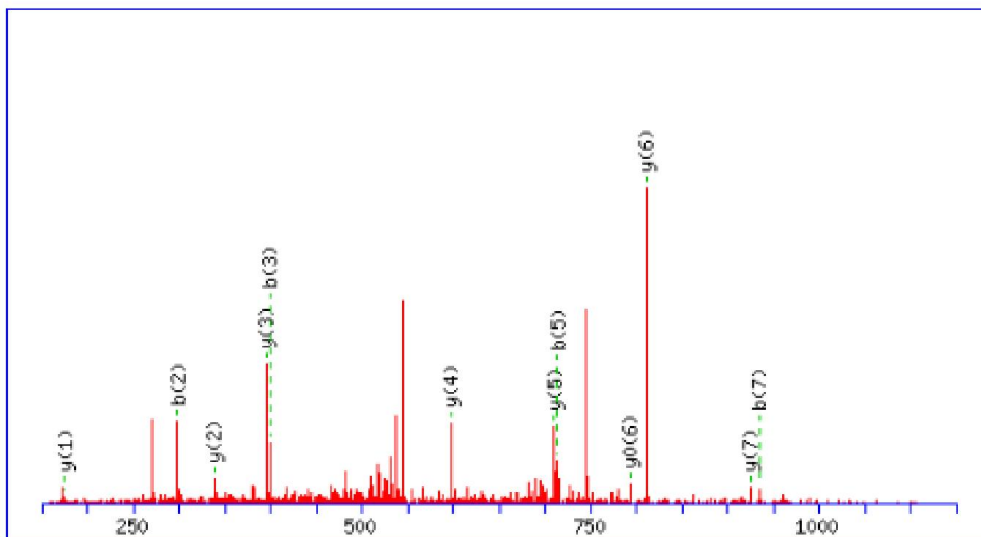
Found in **Q86UX7**, Fermitin family homolog 3 OS=Homo sapiens GN=FERMT3 PE=1 SV=1

Match to Query 4952: 1107.692348 from(554.853450,2+) intensity(127852.6641)

Title: File320 Spectrum13283 scans: 14798

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-562-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, 150 to 1150 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1107.6924

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

Variable modifications:

K1 : Propionyl (K)

K5 : Propionyl-(13CD3)Methyl (K)

Ions Score: 43 Expect: 0.0082

Matches : 12/70 fragment ions using 30 most intense peaks

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							8
2	298.2125	149.6099	281.1860	141.0966			L	924.5786	462.7929	907.5520	454.2796	906.5680	453.7876	7
3	399.2602	200.1337	382.2336	191.6205	381.2496	191.1285	T	811.4945	406.2509	794.4680	397.7376	793.4839	397.2456	6
4	512.3443	256.6758	495.3177	248.1625	494.3337	247.6705	L	710.4468	355.7270	693.4203	347.2138			5
5	714.5033	357.7553	697.4767	349.2420	696.4927	348.7500	K	597.3628	299.1850	580.3362	290.6717			4
6	771.5247	386.2660	754.4982	377.7527	753.5142	377.2607	G	395.2037	198.1055	378.1772	189.5922			3
7	934.5881	467.7977	917.5615	459.2844	916.5775	458.7924	Y	338.1823	169.5948	337.1557	161.0815			2
8							R	175.1190	88.0631	158.0924	79.5498			1

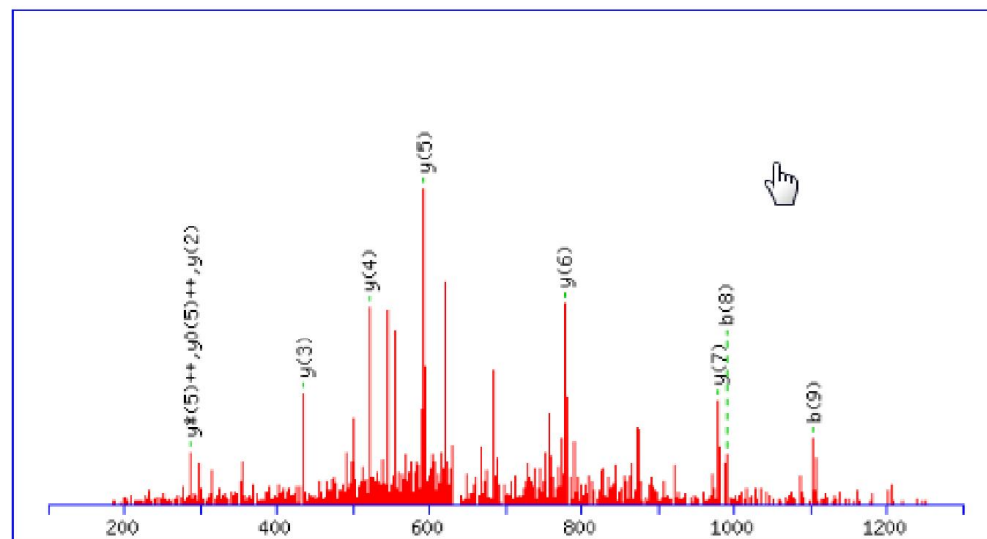
Found in **P46777**, 60S ribosomal protein L5 OS=Homo sapiens GN=RPL5 PE=1 SV=3

Match to Query 7346: 1276.776828 from(639.395690,2+) intensity(72028.1797)

Title: File320 Spectrum13018 scans: 14515

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-562-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, 100 to 1300 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1276.7776

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

Variable modifications:

K4 : Propionyl-(13CD3)Methyl (K)

K5 : Propionyl (K)

Ions Score: 44 Expect: 0.011

Matches : 10/86 fragment ions using 11 most intense peaks

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							10
2	171.1128	86.0600					A	1178.7165	589.8619	1161.6899	581.3486	1160.7059	580.8566	9
3	299.1714	150.0893	282.1448	141.5761			Q	1107.6793	554.3433	1090.6528	545.8300	1089.6688	545.3380	8
4	501.3304	251.1688	484.3038	242.6556			K	979.6208	490.3140	962.5942	481.8007	961.6102	481.3087	7
5	685.4516	343.2294	668.4250	334.7162			K	777.4617	389.2345	760.4352	380.7212	759.4512	380.2292	6
6	756.4887	378.7480	739.4621	370.2347			A	593.3406	297.1739	576.3140	288.6606	575.3300	288.1686	5
7	843.5207	422.2640	826.4942	413.7507	825.5101	413.2587	S	522.3035	261.6554	505.2769	253.1421	504.2929	252.6501	4
8	990.5891	495.7982	973.5626	487.2849	972.5786	486.7929	F	435.2714	218.1394	418.2449	209.6261			3
9	1103.6732	552.3402	1086.6466	543.8270	1085.6626	543.3350	L	288.2030	144.6051	271.1765	136.0919			2
10							R	175.1190	88.0631	158.0924	79.5498			1

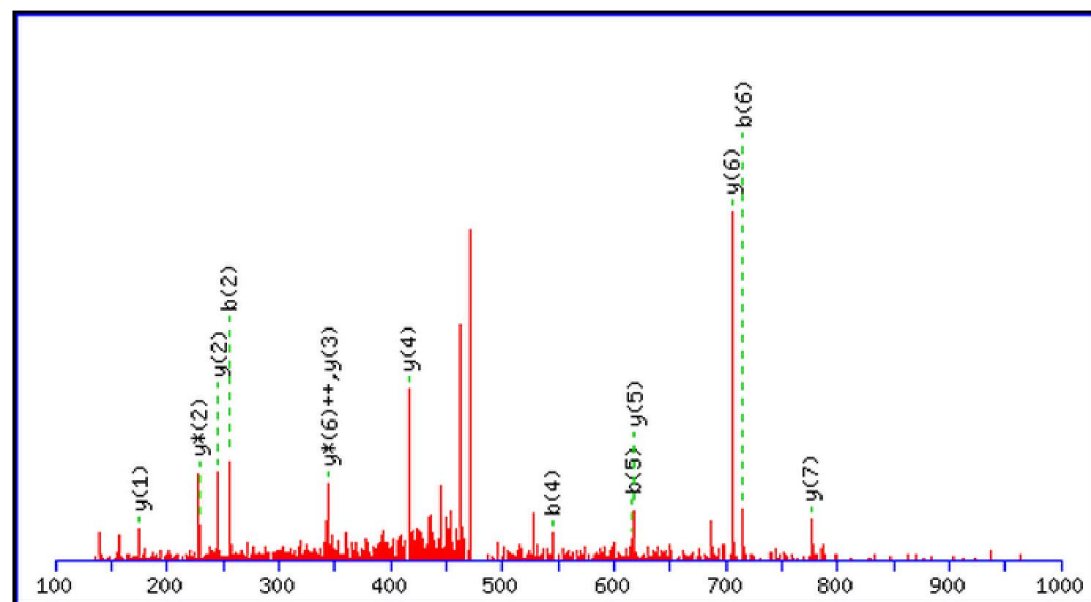
Found in **K7EL20**, Eukaryotic translation initiation factor 3 subunit G (Fragment) OS=Homo sapiens GN=EIF3G PE=3 SV=1

Match to Query 2730: 959.604108 from(480.809330,2+) intensity(37284.5273)

Title: File320 Spectrum4575 scans: 5500

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-562-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 959.6036

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

Variable modifications:

K1 : Propionyl (K)

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 50 Expect: 0.0019

Matches : 13/70 fragment ions using

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							8
2	256.1656	128.5864	239.1390	120.0731			A	776.4897	388.7485	759.4632	380.2352	758.4792	379.7432	7
3	343.1976	172.1024	326.1710	163.5892	325.1870	163.0972	S	705.4526	353.2300	688.4261	344.7167	687.4421	344.2247	6
4	545.3566	273.1819	528.3301	264.6687	527.3460	264.1767	K	618.4206	309.7139	601.3941	301.2007			5
5	616.3937	308.7005	599.3672	300.1872	598.3832	299.6952	A	416.2616	208.6344	399.2350	200.1212			4
6	715.4621	358.2347	698.4356	349.7214	697.4516	349.2294	V	345.2245	173.1159	328.1979	164.6026			3
7	786.4993	393.7533	769.4727	385.2400	768.4887	384.7480	A	246.1561	123.5817	229.1295	115.0684			2
8							R	175.1190	88.0631	158.0924	79.5498			1

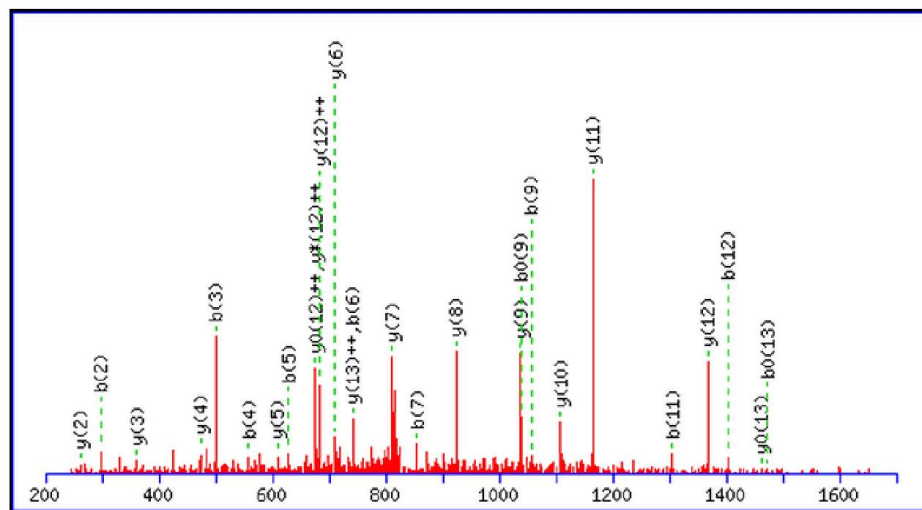
Found in **H0Y6G2**, Calcium/calmodulin-dependent protein kinase type II subunit gamma (Fragment) OS=Homo sapiens GN=CAMK2G PE=4 SV=1

Match to Query 11054: 1664.045628 from(833.030090,2+) intensity(97248.1016)

Title: File375 Spectrum15750 scans: 18267

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fr4-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1664.0452

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

Variable modifications:

K1 : Propionyl (K)

K3 : Propionyl-(13CD3)Methyl (K)

M10 : Label:13C(1)2H(3) (M)

Ions Score: 60 Expect: 6.7e-005

Matches : 27/140 fragment ions using 58 most intense

#	b	b ⁺⁺	b [*]	b ^{***}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							14
2	298.2125	149.6099	281.1860	141.0966			L	1480.9313	740.9693	1463.9047	732.4560	1462.9207	731.9640	13
3	500.3715	250.6894	483.3450	242.1761			K	1367.8472	684.4272	1350.8207	675.9140	1349.8366	675.4220	12
4	557.3930	279.2001	540.3664	270.6869			G	1165.6882	583.3477	1148.6616	574.8345	1147.6776	574.3425	11
5	628.4301	314.7187	611.4036	306.2054			A	1108.6667	554.8370	1091.6402	546.3237	1090.6562	545.8317	10
6	741.5142	371.2607	724.4876	362.7475			I	1037.6296	519.3184	1020.6031	510.8052	1019.6190	510.3132	9
7	854.5982	427.8028	837.5717	419.2895			L	924.5456	462.7764	907.5190	454.2631	906.5350	453.7711	8
8	955.6459	478.3266	938.6194	469.8133	937.6354	469.3213	T	811.4615	406.2344	794.4349	397.7211	793.4509	397.2291	7
9	1056.6936	528.8504	1039.6670	520.3372	1038.6830	519.8452	T	710.4138	355.7105	693.3873	347.1973	692.4032	346.7053	6
10	1191.7563	596.3818	1174.7297	587.8685	1173.7457	587.3765	M	609.3661	305.1867	592.3396	296.6734	591.3556	296.1814	5
11	1304.8403	652.9238	1287.8138	644.4105	1286.8298	643.9185	L	474.3035	237.6554	457.2769	229.1421	456.2929	228.6501	4
12	1403.9087	702.4580	1386.8822	693.9447	1385.8982	693.4527	V	361.2194	181.1133	344.1928	172.6001	343.2088	172.1081	3
13	1490.9408	745.9740	1473.9142	737.4607	1472.9302	736.9687	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
14							R	175.1190	88.0631	158.0924	79.5498			1

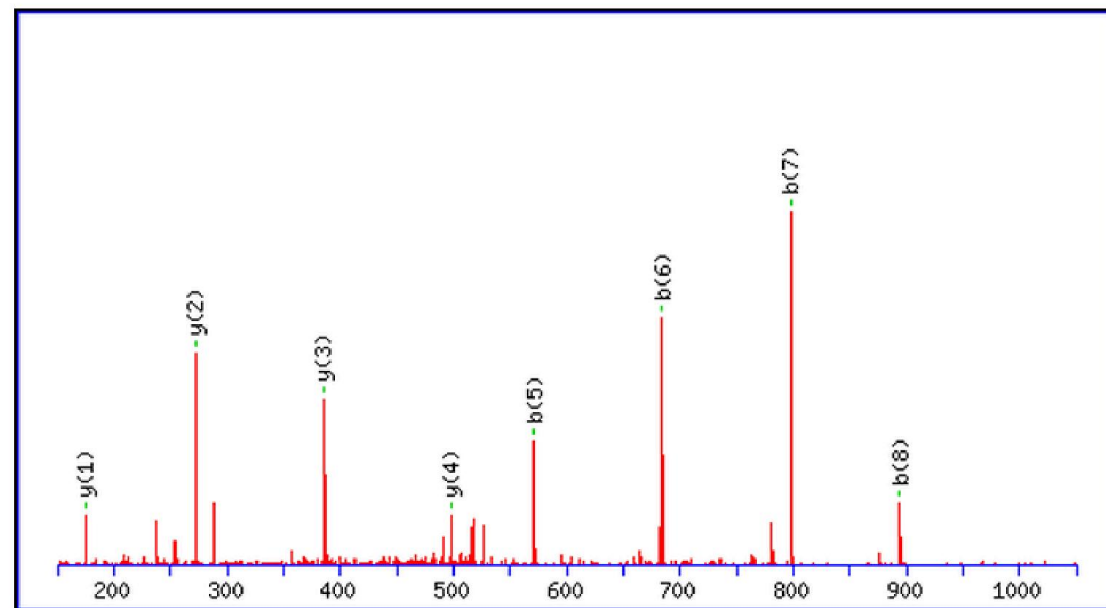
MS/MS Fragmentation of **PGTKLLLPR**Found in **Q9NYZ3**, G2 and S phase-expressed protein 1 OS=Homo sapiens GN=GTSE1 PE=1 SV=3

Match to Query 3191: 1067.707128 from(534.860840,2+) intensity(79356.2031)

Title: File375 Spectrum12028 scans: 13721

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fr4-ZW.mgf

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

Or, 150 to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral pept

Fixed modifications: Carbamidomet

Variable modifications:

K4 : Propionyl-(13CD3)Methyl

Ions Score: 36 Expect: 0.016

Matches : 8/74 fragment ions usin

#	b	b ⁺⁺	b [*]	b ^{**}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{**}	y ⁰	y ⁰⁺⁺	#
1	98.0600	49.5337					P							9
2	155.0815	78.0444					G	971.6521	486.3297	954.6255	477.8164	953.6415	477.3244	8
3	256.1292	128.5682			238.1186	119.5629	T	914.6306	457.8189	897.6041	449.3057	896.6200	448.8137	7
4	458.2882	229.6477	441.2616	221.1345	440.2776	220.6425	K	813.5829	407.2951	796.5564	398.7818			6
5	571.3723	286.1898	554.3457	277.6765	553.3617	277.1845	L	611.4239	306.2156	594.3974	297.7023			5
6	684.4563	342.7318	667.4298	334.2185	666.4458	333.7265	L	498.3398	249.6736	481.3133	241.1603			4
7	797.5404	399.2738	780.5138	390.7606	779.5298	390.2685	L	385.2558	193.1315	368.2292	184.6183			3
8	894.5932	447.8002	877.5666	439.2869	876.5826	438.7949	P	272.1717	136.5895	255.1452	128.0762			2
9							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **MVIITGPPEAQFKAQGR**

Found in **F8W930**, Insulin-like growth factor 2 mRNA-binding protein 2 OS=Homo sapiens GN=IGF2BP2 PE=2 SV=1

Match to Query 13917: 1920.070288 from(961.042420,2+) intensity(20393.0879)

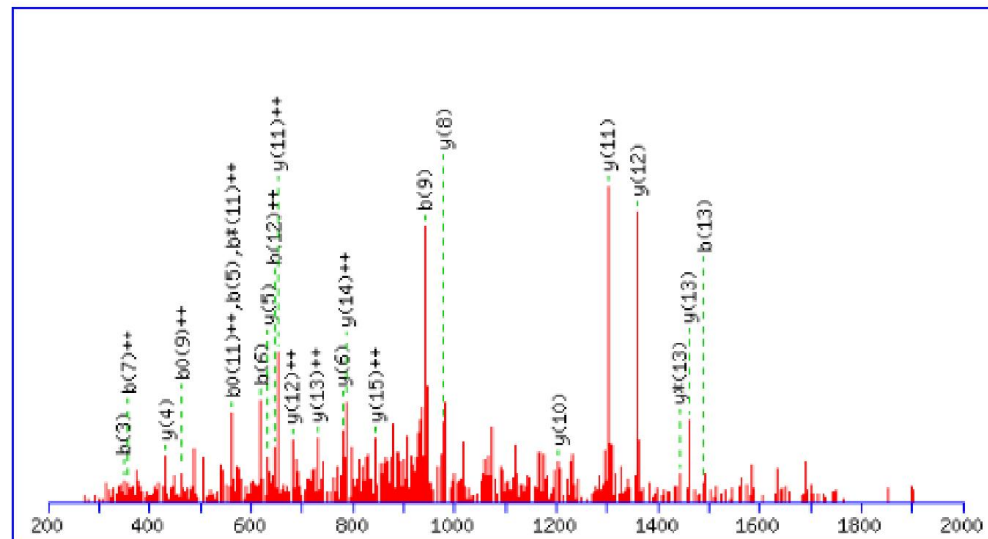
Title: File375 Spectrum13309 scans: 15087

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fr4-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1920.0684

Fixed modifications: Carbamidomethyl (C) (apply to specified res.)

Variable modifications:

M1 : Label:13C(1)2H(3) (M)

K13 : Propionyl-(13CD3)Methyl (K)

Ions Score: 22 Expect: 3.2

Matches : 24/148 fragment ions using 63 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	136.0699	68.5386					M							17
2	235.1384	118.0728					V	1786.0130	893.5102	1768.9865	884.9969	1768.0025	884.5049	16
3	348.2224	174.6148					I	1686.9446	843.9759	1669.9181	835.4627	1668.9341	834.9707	15
4	461.3065	231.1569					I	1573.8606	787.4339	1556.8340	778.9206	1555.8500	778.4286	14
5	562.3542	281.6807			544.3436	272.6734	T	1460.7765	730.8919	1443.7499	722.3786	1442.7659	721.8866	13
6	619.3756	310.1915			601.3651	301.1862	G	1359.7288	680.3680	1342.7023	671.8548	1341.7182	671.3628	12
7	716.4284	358.7178			698.4178	349.7126	P	1302.7073	651.8573	1285.6808	643.3440	1284.6968	642.8520	11
8	813.4812	407.2442			795.4706	398.2389	P	1205.6546	603.3309	1188.6280	594.8177	1187.6440	594.3256	10
9	942.5238	471.7655			924.5132	462.7602	E	1108.6018	554.8045	1091.5753	546.2913	1090.5913	545.7993	9
10	1013.5609	507.2841			995.5503	498.2788	A	979.5592	490.2833	962.5327	481.7700			8
11	1141.6194	571.3134	1124.5929	562.8001	1123.6089	562.3081	Q	908.5221	454.7647	891.4956	446.2514			7
12	1288.6879	644.8476	1271.6613	636.3343	1270.6773	635.8423	F	780.4635	390.7354	763.4370	382.2221			6
13	1490.8469	745.9271	1473.8203	737.4138	1472.8363	736.9218	K	633.3951	317.2012	616.3686	308.6879			5
14	1561.8840	781.4456	1544.8574	772.9324	1543.8734	772.4403	A	431.2361	216.1217	414.2096	207.6084			4
15	1689.9426	845.4749	1672.9160	836.9616	1671.9320	836.4696	Q	360.1990	180.6031	343.1724	172.0899			3
16	1746.9640	873.9857	1729.9375	865.4724	1728.9535	864.9804	G	232.1404	116.5738	215.1139	108.0606			2
17							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 7620: 1401.862528 from(701.938540,2+) intensity(35531.0391)

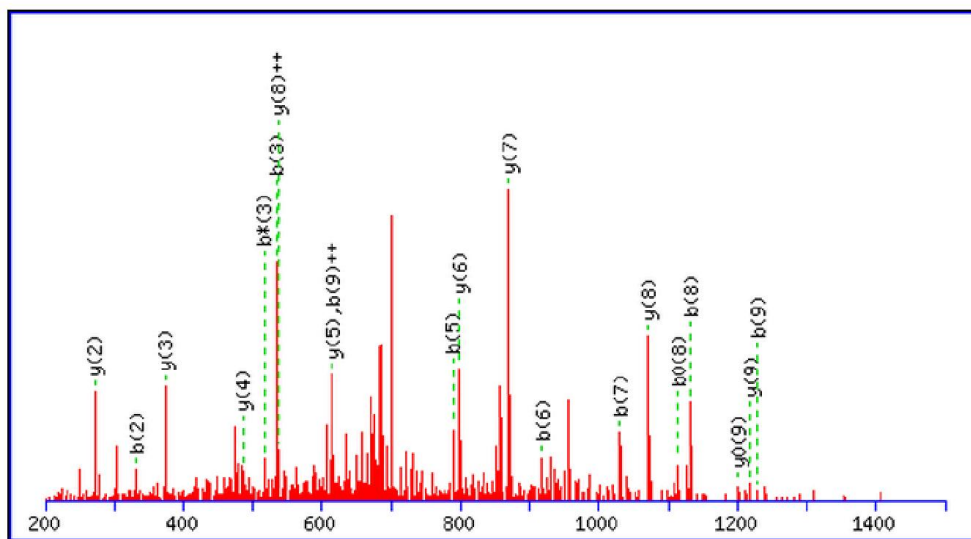
Title: File375 Spectrum10972 scans: 12594

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZWk562\2013-5-15-562-Kpropio-methyl-IP-Fr4-ZW.mgf

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

Or, 200 1500

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1401.8616

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

Variable modifications:

K1 : Propionyl (K)

K3 : Propionyl-(13CD3)Met]

K5 : Propionyl (K)

Ions Score: 36 Expect: 0.038

Matches : 20/90 fragment ions

#	b	b ⁺⁺	b [*]	b ^{***}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							10
2	332.1969	166.6021	315.1703	158.0888			F	1218.7478	609.8775	1201.7212	601.3642	1200.7372	600.8722	9
3	534.3559	267.6816	517.3293	259.1683			K	1071.6793	536.3433	1054.6528	527.8300	1053.6688	527.3380	8
4	605.3930	303.2001	588.3664	294.6869			A	869.5203	435.2638	852.4938	426.7505	851.5098	426.2585	7
5	789.5142	395.2607	772.4876	386.7475			K	798.4832	399.7452	781.4567	391.2320	780.4727	390.7400	6
6	917.5728	459.2900	900.5462	450.7767			Q	614.3620	307.6847	597.3355	299.1714	596.3515	298.6794	5
7	1030.6568	515.8320	1013.6303	507.3188			L	486.3035	243.6554	469.2769	235.1421	468.2929	234.6501	4
8	1131.7045	566.3559	1114.6779	557.8426	1113.6939	557.3506	T	373.2194	187.1133	356.1928	178.6001	355.2088	178.1081	3
9	1228.7573	614.8823	1211.7307	606.3690	1210.7467	605.8770	P	272.1717	136.5895	255.1452	128.0762			2
10							R	175.1190	88.0631	158.0924	79.5498			1

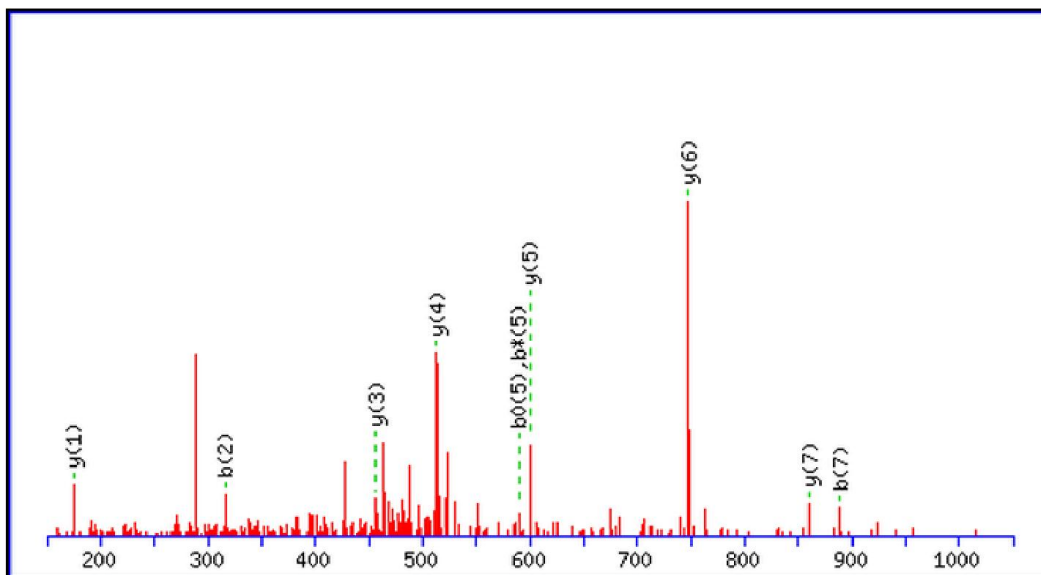
Found in **Q7Z5K2**, Wings apart-like protein homolog OS=Homo sapiens GN=WAPAL PE=1 SV=1

Match to Query 3109: 1061.650248 from(531.832400,2+) intensity(14045.9766)

Title: File375 Spectrum8977 scans: 10464

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fr4-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1061.6506

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

Variable modifications:

K1 : Propionyl-(13CD3)Me

K7 : Propionyl (K)

Ions Score: 40 Expect: 0.02

Matches : 10/70 fragment ions

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							8
2	316.2504	158.6288	299.2238	150.1155			I	860.4989	430.7531	843.4723	422.2398	842.4883	421.7478	7
3	463.3188	232.1630	446.2922	223.6497			F	747.4148	374.2110	730.3883	365.6978	729.4042	365.2058	6
4	550.3508	275.6790	533.3242	267.1658	532.3402	266.6738	S	600.3464	300.6768	583.3198	292.1636	582.3358	291.6715	5
5	607.3723	304.1898	590.3457	295.6765	589.3617	295.1845	G	513.3144	257.1608	496.2878	248.6475			4
6	704.4250	352.7161	687.3985	344.2029	686.4145	343.7109	P	456.2929	228.6501	439.2663	220.1368			3
7	888.5462	444.7767	871.5197	436.2635	870.5356	435.7715	K	359.2401	180.1237	342.2136	171.6104			2
8							R	175.1190	88.0631	158.0924	79.5498			1

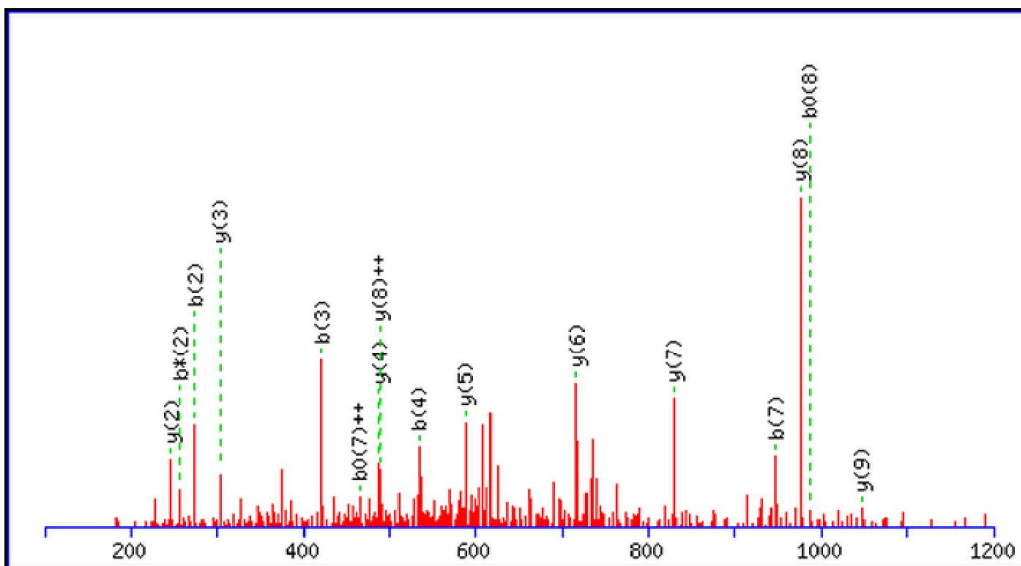
Found in **O15156**, Zinc finger and BTB domain-containing protein 7B OS=Homo sapiens GN=ZBTB7B PE=1 SV=2

Match to Query 5584: 1248.746428 from(625.380490,2+) intensity(36088.4766)

Title: File375 Spectrum10089 scans: 11652

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fr4-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1248.7463

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

K7 : Propionyl (K)

Ions Score: 51 Expect: 0.0023

Matches : 16/90 fragment ions using :

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							10
2	274.2034	137.6053	257.1769	129.0921			A	1047.5946	524.3009	1030.5680	515.7876	1029.5840	515.2956	9
3	421.2718	211.1395	404.2453	202.6263			F	976.5574	488.7824	959.5309	480.2691	958.5469	479.7771	8
4	534.3559	267.6816	517.3293	259.1683			L	829.4890	415.2482	812.4625	406.7349	811.4785	406.2429	7
5	662.4145	331.7109	645.3879	323.1976			Q	716.4050	358.7061	699.3784	350.1928	698.3944	349.7008	6
6	763.4621	382.2347	746.4356	373.7214	745.4516	373.2294	T	588.3464	294.6768	571.3198	286.1636	570.3358	285.6715	5
7	947.5833	474.2953	930.5568	465.7820	929.5728	465.2900	K	487.2987	244.1530	470.2722	235.6397			4
8	1004.6048	502.8060	987.5782	494.2928	986.5942	493.8007	G	303.1775	152.0924	286.1510	143.5791			3
9	1075.6419	538.3246	1058.6153	529.8113	1057.6313	529.3193	A	246.1561	123.5817	229.1295	115.0684			2
10							R	175.1190	88.0631	158.0924	79.5498			1

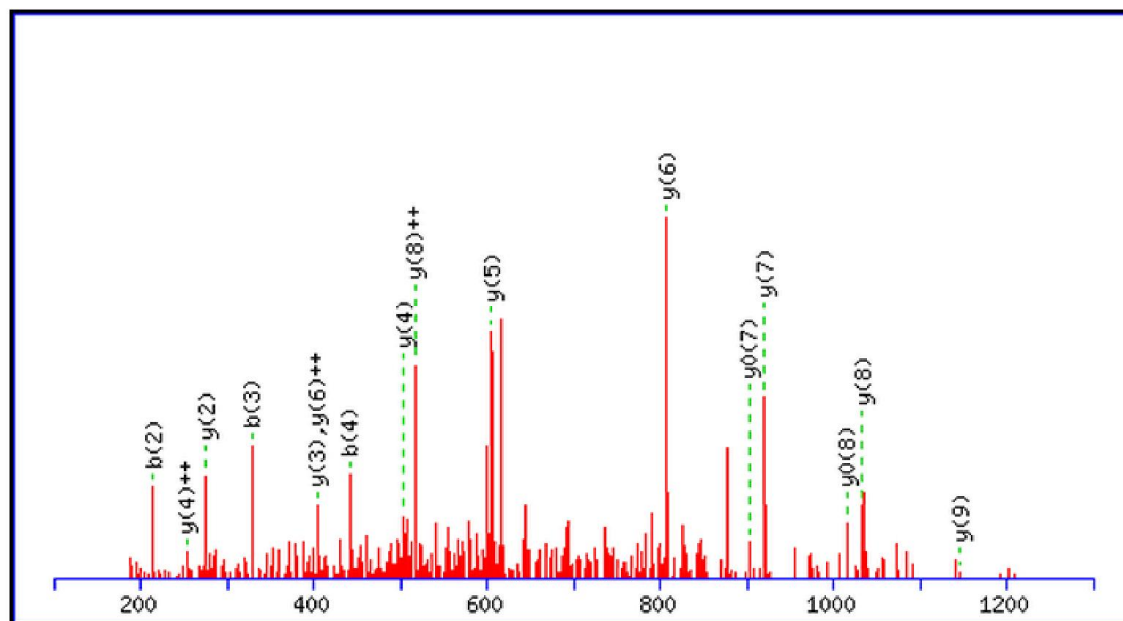
Found in **P08670**, Vimentin OS=Homo sapiens GN=VIM PE=1 SV=4

Match to Query 5689: 1246.775728 from(624.395140,2+) intensity(33411.3242)

Title: File373 Spectrum13349 scans: 14945

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fr3-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide
 Fixed modifications: Carbamidomethyl
 Variable modifications:
 K5 : Propionyl-(13CD3)Methyl (K)
 Ions Score: 50 Expect: 0.0016
 Matches : 16/98 fragment ions using

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T							10
2	215.1390	108.0731			197.1285	99.0679	L	1146.7365	573.8719	1129.7100	565.3586	1128.7260	564.8666	9
3	328.2231	164.6152			310.2125	155.6099	L	1033.6525	517.3299	1016.6259	508.8166	1015.6419	508.3246	8
4	441.3071	221.1572			423.2966	212.1519	I	920.5684	460.7878	903.5418	452.2746	902.5578	451.7826	7
5	643.4662	322.2367	626.4396	313.7234	625.4556	313.2314	K	807.4843	404.2458	790.4578	395.7325	789.4738	395.2405	6
6	744.5138	372.7606	727.4873	364.2473	726.5033	363.7553	T	605.3253	303.1663	588.2988	294.6530	587.3148	294.1610	5
7	843.5823	422.2948	826.5557	413.7815	825.5717	413.2895	V	504.2776	252.6425	487.2511	244.1292	486.2671	243.6372	4
8	972.6248	486.8161	955.5983	478.3028	954.6143	477.8108	E	405.2092	203.1082	388.1827	194.5950	387.1987	194.1030	3
9	1073.6725	537.3399	1056.6460	528.8266	1055.6620	528.3346	T	276.1666	138.5870	259.1401	130.0737	258.1561	129.5817	2
10							R	175.1190	88.0631	158.0924	79.5498			1

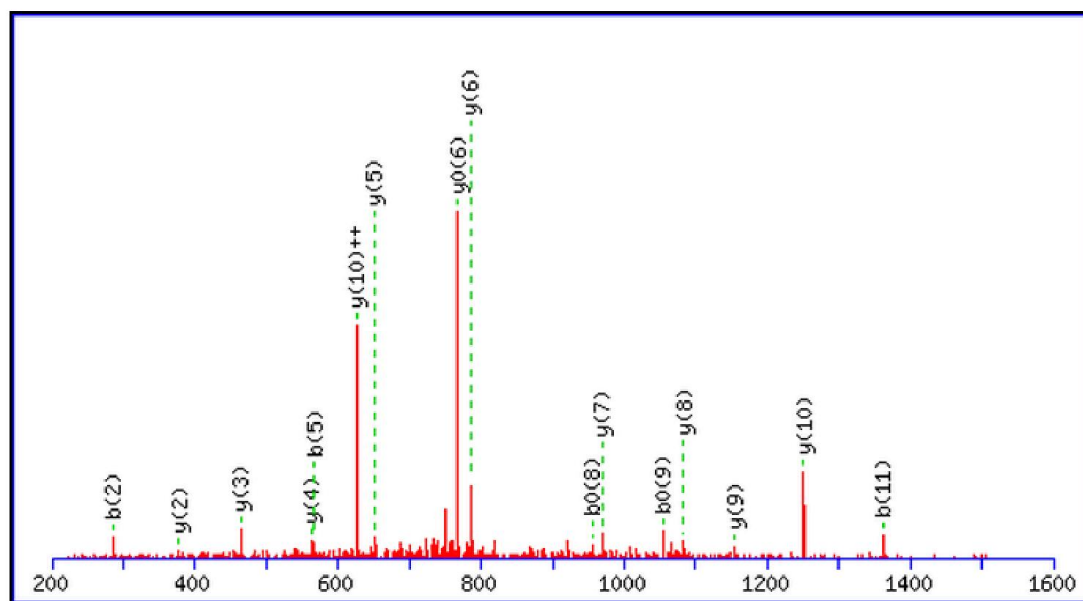
Found in **I3L080**, Hepatoma-derived growth factor-related protein 2 OS=Homo sapiens GN=HDGFRP2 PE=2 SV=1

Match to Query 10032: 1534.930888 from(768.472720,2+) intensity(45496.5938)

Title: File373 Spectrum12189 scans: 13708

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fr3-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(ca.

Fixed modifications: Carbamidomethyl (C) (

Variable modifications:

K1 : Propionyl (K)

K6 : Propionyl (K)

M7 : Label:13C(1)2H(3) (M)

K11 : Propionyl-(13CD3)Methyl (K)

Ions Score: 65 Expect: 6e-005

Matches : 16/126 fragment ions using 26 mo.

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							12
2	286.1761	143.5917	269.1496	135.0784	268.1656	134.5864	T	1351.8159	676.4116	1334.7894	667.8983	1333.8053	667.4063	11
3	383.2289	192.1181	366.2023	183.6048	365.2183	183.1128	P	1250.7682	625.8878	1233.7417	617.3745	1232.7577	616.8825	10
4	454.2660	227.6366	437.2395	219.1234	436.2554	218.6314	A	1153.7155	577.3614	1136.6889	568.8481	1135.7049	568.3561	9
5	567.3501	284.1787	550.3235	275.6654	549.3395	275.1734	L	1082.6783	541.8428	1065.6518	533.3295	1064.6678	532.8375	8
6	751.4713	376.2393	734.4447	367.7260	733.4607	367.2340	K	969.5943	485.3008	952.5677	476.7875	951.5837	476.2955	7
7	886.5339	443.7706	869.5074	435.2573	868.5234	434.7653	M	785.4731	393.2402	768.4466	384.7269	767.4625	384.2349	6
8	973.5660	487.2866	956.5394	478.7733	955.5554	478.2813	S	650.4104	325.7089	633.3839	317.1956	632.3999	316.7036	5
9	1072.6344	536.8208	1055.6078	528.3075	1054.6238	527.8155	V	563.3784	282.1928	546.3519	273.6796	545.3678	273.1876	4
10	1159.6664	580.3368	1142.6398	571.8236	1141.6558	571.3316	S	464.3100	232.6586	447.2834	224.1454	446.2994	223.6534	3
11	1361.8254	681.4163	1344.7989	672.9031	1343.8148	672.4111	K	377.2780	189.1426	360.2514	180.6293			2
12							R	175.1190	88.0631	158.0924	79.5498			1

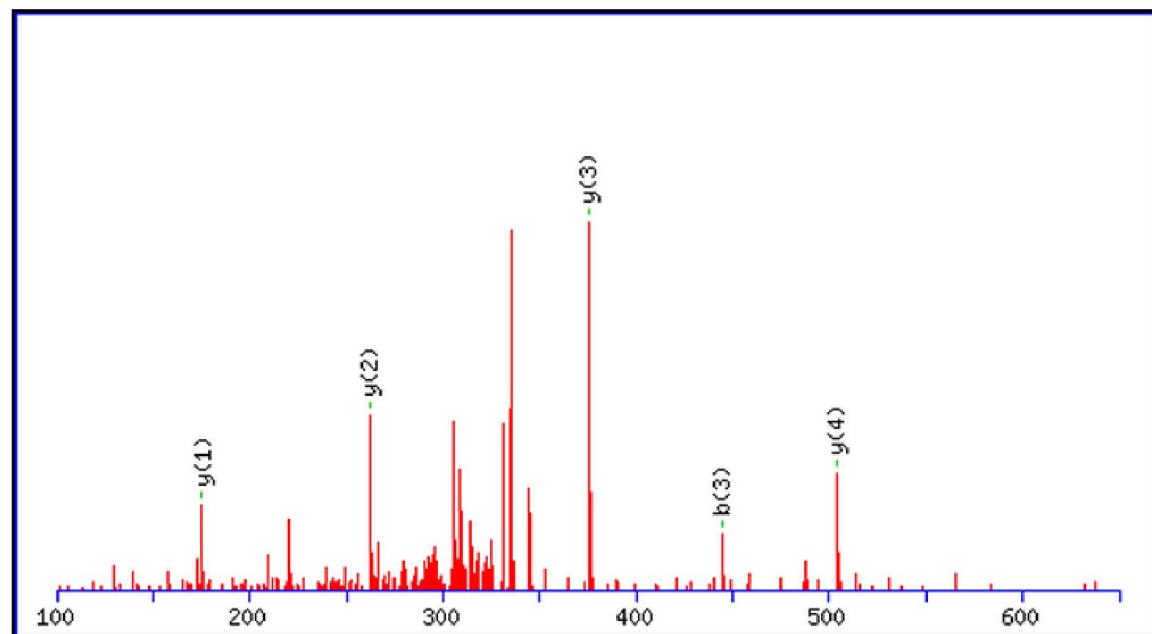
Found in **A0JNWS**, UHRF1-binding protein 1-like OS=Homo sapiens GN=UHRF1BP1L PE=1 SV=2

Match to Query 18: 704.445048 from(353.229800,2+) intensity(8895.4434)

Title: File373 Spectrum2309 scans: 3078

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fr3-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 704.4453

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

Variable modifications:

K1 : Propionyl-(13CD3)Met

Ions Score: 30 Expect: 0.26

Matches : 5/40 fragment ions

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							5
2	331.2249	166.1161	314.1983	157.6028			Q	503.2936	252.1504	486.2671	243.6372	485.2831	243.1452	4
3	444.3089	222.6581	427.2824	214.1448			I	375.2350	188.1212	358.2085	179.6079	357.2245	179.1159	3
4	531.3410	266.1741	514.3144	257.6608	513.3304	257.1688	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
5							R	175.1190	88.0631	158.0924	79.5498			1

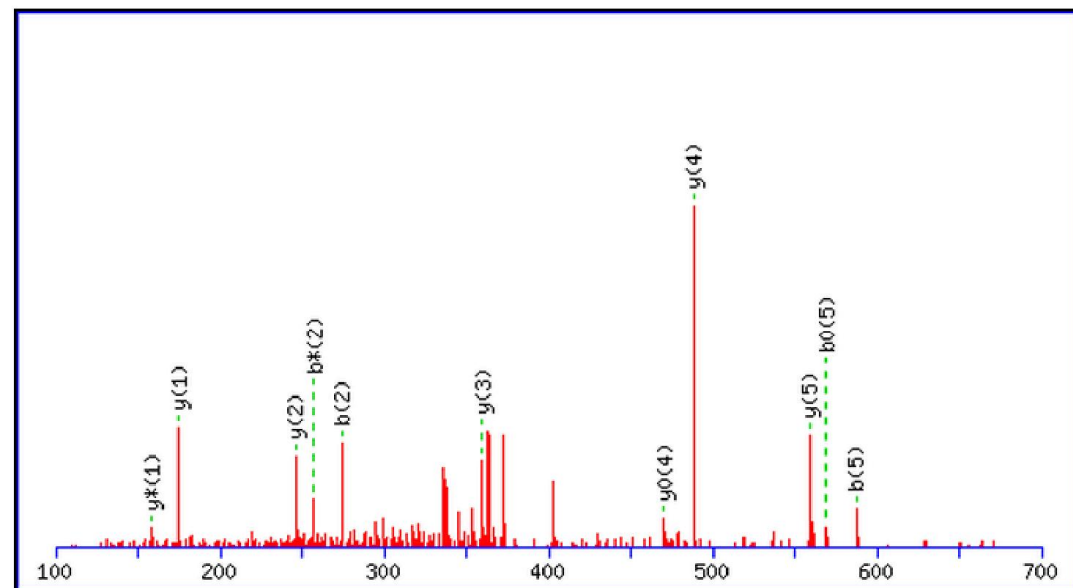
Found in **Q8IUVV8**, E3 ubiquitin-protein ligase UBR2 OS=Homo sapiens GN=UBR2 PE=1 SV=1

Match to Query 211: 760.471968 from(381.243260,2+) intensity(12606.0537)

Title: File373 Spectrum3382 scans: 4234

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZWk562\2013-5-15-562-Kpropio-methyl-IP-Fr3-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 760.4715

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

Variable modifications:

K1 : Propionyl

Ions Score: 34 Ex

Matches : 11/50 fr

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							6
2	274.2034	137.6053	257.1769	129.0921			A	559.3198	280.1636	542.2933	271.6503	541.3093	271.1583	5
3	403.2460	202.1266	386.2194	193.6134	385.2354	193.1214	E	488.2827	244.6450	471.2562	236.1317	470.2722	235.6397	4
4	516.3301	258.6687	499.3035	250.1554	498.3195	249.6634	I	359.2401	180.1237	342.2136	171.6104			3
5	587.3672	294.1872	570.3406	285.6740	569.3566	285.1819	A	246.1561	123.5817	229.1295	115.0684			2
6							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 586: 818.487528 from(410.251040,2+) intensity(42031.4531)

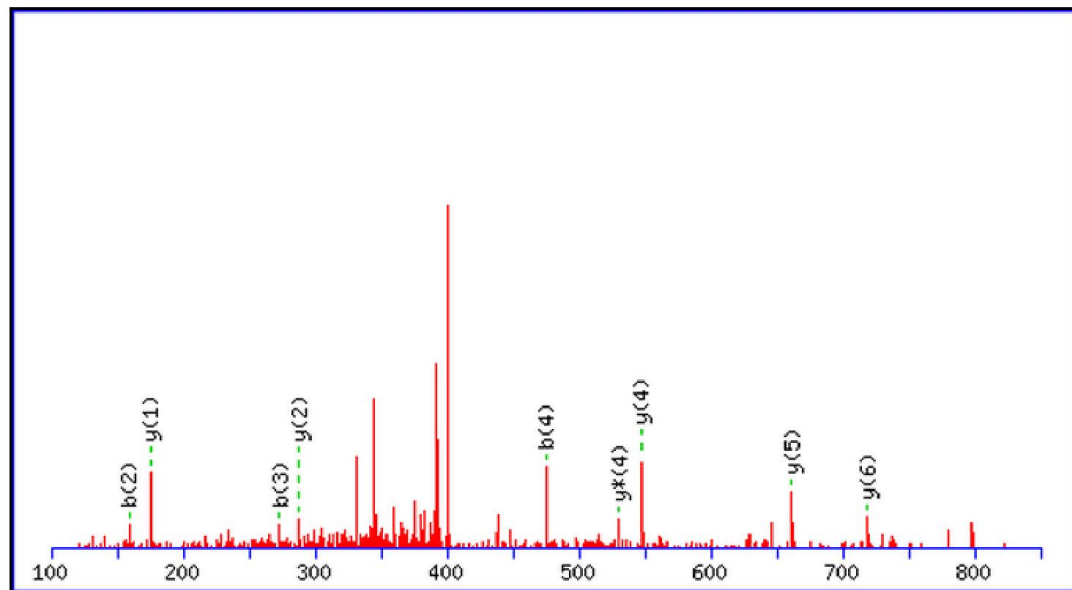
Title: File373 Spectrum3261 scans: 4105

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fr3-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 818.4883

Fixed modifications: Carbamido

Variable modifications:

K4 : Propionyl-(13CD3)Meth

Ions Score: 38 Expect: 0.039

Matches : 9/56 fragment ions u

#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	102.0550	51.5311			84.0444	42.5258	T					7
2	159.0764	80.0418			141.0659	71.0366	G	718.4479	359.7276	701.4213	351.2143	6
3	273.1193	137.0633	256.0928	128.5500	255.1088	128.0580	N	661.4264	331.2168	644.3999	322.7036	5
4	475.2784	238.1428	458.2518	229.6295	457.2678	229.1375	K	547.3835	274.1954	530.3569	265.6821	4
5	532.2998	266.6535	515.2733	258.1403	514.2893	257.6483	G	345.2245	173.1159	328.1979	164.6026	3
6	645.3839	323.1956	628.3573	314.6823	627.3733	314.1903	L	288.2030	144.6051	271.1765	136.0919	2
7							R	175.1190	88.0631	158.0924	79.5498	1

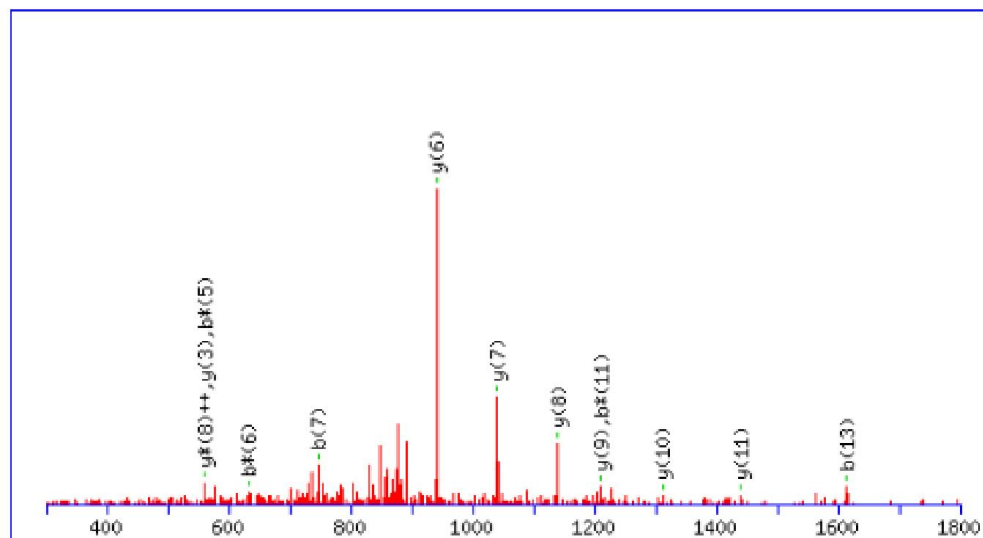
Found in **Q12972**, Nuclear inhibitor of protein phosphatase 1 OS=Homo sapiens GN=PPP1R8 PE=1 SV=2

Match to Query 13778: 1787.090068 from(894.552310,2+) intensity(25304.2461)

Title: File276 Spectrum12603 scans: 14135

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fr2-ZW.mgf

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

Or, 300 to 1800 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1787.0884

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

Variable modifications:

M2 : Label:13C(1)2H(3) (M)

K11 : Propionyl (K)

K12 : Propionyl (K)

K13 : Propionyl-(13CD3)Methyl (K)

Ions Score: 49 Expect: 0.0017

Matches : 13/130 fragment ions using 15 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	115.0502	58.0287	98.0237	49.5155			N							14
2	250.1129	125.5601	233.0863	117.0468			M	1674.0528	837.5300	1657.0262	829.0168	1656.0422	828.5247	13
3	349.1813	175.0943	332.1547	166.5810			V	1538.9901	769.9987	1521.9636	761.4854	1520.9795	760.9934	12
4	477.2399	239.1236	460.2133	230.6103			Q	1439.9217	720.4645	1422.8951	711.9512	1421.9111	711.4592	11
5	578.2875	289.6474	561.2610	281.1341	560.2770	280.6421	T	1311.8631	656.4352	1294.8366	647.9219	1293.8526	647.4299	10
6	649.3247	325.1660	632.2981	316.6527	631.3141	316.1607	A	1210.8154	605.9114	1193.7889	597.3981			9
7	748.3931	374.7002	731.3665	366.1869	730.3825	365.6949	V	1139.7783	570.3928	1122.7518	561.8795			8
8	847.4615	424.2344	830.4349	415.7211	829.4509	415.2291	V	1040.7099	520.8586	1023.6834	512.3453			7
9	944.5142	472.7608	927.4877	464.2475	926.5037	463.7555	P	941.6415	471.3244	924.6150	462.8111			6
10	1043.5827	522.2950	1026.5561	513.7817	1025.5721	513.2897	V	844.5887	422.7980	827.5622	414.2847			5
11	1227.7038	614.3556	1210.6773	605.8423	1209.6933	605.3503	K	745.5203	373.2638	728.4938	364.7505			4
12	1411.8250	706.4161	1394.7985	697.9029	1393.8145	697.4109	K	561.3991	281.2032	544.3726	272.6899			3
13	1613.9840	807.4957	1596.9575	798.9824	1595.9735	798.4904	K	377.2780	189.1426	360.2514	180.6293			2
14							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 6108: 1215.728248 from(608.871400,2+) intensity(102705.3516)

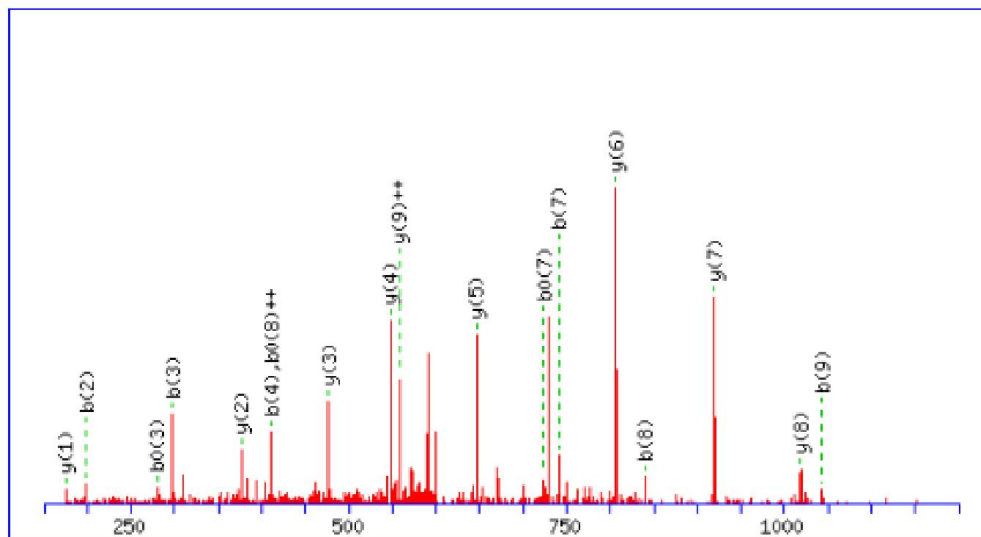
Title: File276 Spectrum11504 scans: 12963

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fr2-ZW.mgf

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

Or, 150 to 1200 Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1215.7282

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

Variable modifications:

K9 : Propionyl-(13CD3)Methyl (K)

Ions Score: 57 Expect: 0.00055

Matches : 18/74 fragment ions using 30 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T					10
2	199.1077	100.0575			181.0972	91.0522	P	1115.6878	558.3475	1098.6612	549.8343	9
3	298.1761	149.5917			280.1656	140.5864	V	1018.6350	509.8212	1001.6085	501.3079	8
4	411.2602	206.1337			393.2496	197.1285	L	919.5666	460.2869	902.5401	451.7737	7
5	571.2908	286.1491			553.2803	277.1438	C	806.4826	403.7449	789.4560	395.2316	6
6	670.3593	335.6833			652.3487	326.6780	V	646.4519	323.7296	629.4254	315.2163	5
7	741.3964	371.2018			723.3858	362.1965	A	547.3835	274.1954	530.3569	265.6821	4
8	840.4648	420.7360			822.4542	411.7307	V	476.3464	238.6768	459.3198	230.1636	3
9	1042.6238	521.8155	1025.5973	513.3023	1024.6132	512.8103	K	377.2780	189.1426	360.2514	180.6293	2
10							R	175.1190	88.0631	158.0924	79.5498	1

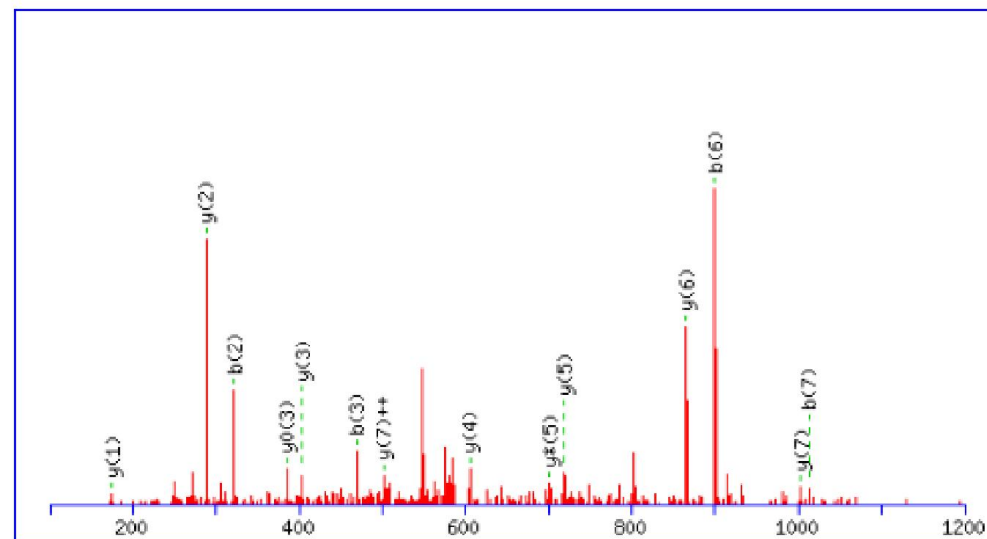
Found in **Q03701**, CCAAT/enhancer-binding protein zeta OS=Homo sapiens GN=CEBPZ PE=1 SV=3

Match to Query 3442: 1185.714328 from(593.864440,2+) intensity(25360.4883)

Title: File365 Spectrum9386 scan#: 10900

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-6-3-K562-Kpropio-methyl-IP-Fr20-ZW.mgf

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

Or, 100 to 1200 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1185.7142

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

Variable modifications:

K1 : Propionyl (K)

K5 : Propionyl-(13CD3)Methyl (K)

Ions Score: 43 Expect: 0.013

Matches : 14/70 fragment ions using 28 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							8
2	322.1874	161.5973	305.1608	153.0840			H	1002.6004	501.8038	985.5738	493.2905	984.5898	492.7985	7
3	469.2558	235.1315	452.2292	226.6183			F	865.5414	433.2744	848.5149	424.7611	847.5309	424.2691	6
4	582.3398	291.6736	565.3133	283.1603			I	718.4730	359.7402	701.4465	351.2269	700.4625	350.7349	5
5	784.4989	392.7531	767.4723	384.2398			K	605.3890	303.1981	588.3624	294.6848	587.3784	294.1928	4
6	899.5258	450.2665	882.4993	441.7533	881.5152	441.2613	D	403.2300	202.1186	386.2034	193.6053	385.2194	193.1133	3
7	1012.6099	506.8086	995.5833	498.2953	994.5993	497.8033	I	288.2030	144.6051	271.1765	136.0919			2
8							R	175.1190	88.0631	158.0924	79.5498			1

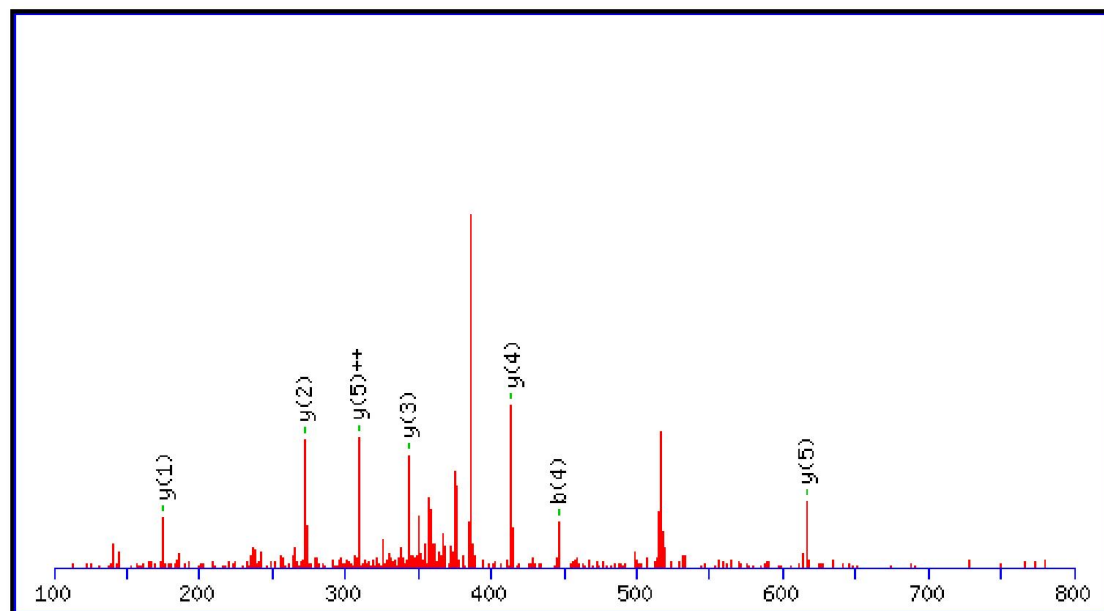
MS/MS Fragmentation of **ATKAAPR**Found in **A4UHQ9**, C2ORF3 variant 2 OS=Homo sapiens GN=C2orf3 PE=2 SV=1

Match to Query 446: 787.484408 from(394.749480, 2+) intensity(24143.3242)

Title: File307 Spectrum2175 scans: 2831

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr19-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 787.4825**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K3** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 29 **Expect:** 0.29**Matches** : 7/56 fragment ions using 1

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							7
2	173.0921	87.0497			155.0815	78.0444	T	717.4526	359.2300	700.4261	350.7167	699.4421	350.2247	6
3	375.2511	188.1292	358.2245	179.6159	357.2405	179.1239	K	616.4050	308.7061	599.3784	300.1928			5
4	446.2882	223.6477	429.2616	215.1345	428.2776	214.6425	A	414.2459	207.6266	397.2194	199.1133			4
5	517.3253	259.1663	500.2988	250.6530	499.3147	250.1610	A	343.2088	172.1081	326.1823	163.5948			3
6	614.3781	307.6927	597.3515	299.1794	596.3675	298.6874	P	272.1717	136.5895	255.1452	128.0762			2
7							R	175.1190	88.0631	158.0924	79.5498			1

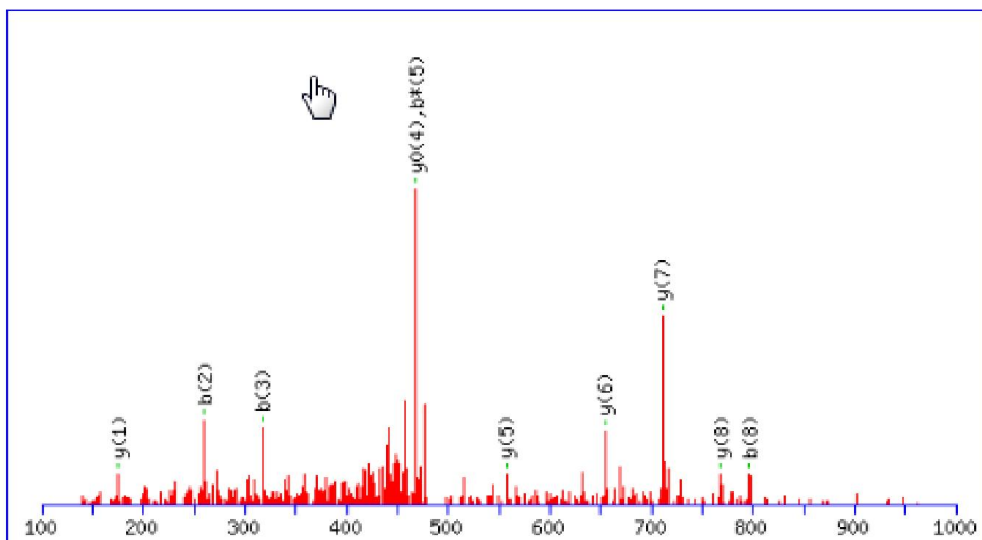
MS/MS Fragmentation of **KGGPAPVDR**Found in **E7EU24**, Protein CBFA2T3 OS=Homo sapiens GN=CBFA2T3 PE=2 SV=2

Match to Query 2120: 969.551848 from(485.783200,2+) intensity(16014.0156)

Title: File307 Spectrum3376 scans: 4114

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZWk562\2013-5-23-K562-Kpropio-methyl-IP-Fr19-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 969.5516

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 30 Expect: 0.37

Matches : 10/80 fragment ions using 18 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							9
2	260.1878	130.5975	243.1612	122.0842			C	768.3999	384.7036	751.3733	376.1903	750.3893	375.6983	8
3	317.2092	159.1082	300.1827	150.5950			G	711.3784	356.1928	694.3519	347.6796	693.3678	347.1876	7
4	414.2620	207.6346	397.2354	199.1214			P	654.3570	327.6821	637.3304	319.1688	636.3464	318.6768	6
5	485.2991	243.1532	468.2725	234.6399			A	557.3042	279.1557	540.2776	270.6425	539.2936	270.1504	5
6	582.3519	291.6796	565.3253	283.1663			P	486.2671	243.6372	469.2405	235.1239	468.2565	234.6319	4
7	681.4203	341.2138	664.3937	332.7005			V	389.2143	195.1108	372.1878	186.5975	371.2037	186.1055	3
8	796.4472	398.7272	779.4207	390.2140	778.4367	389.7220	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
9							R	175.1190	88.0631	158.0924	79.5498			1

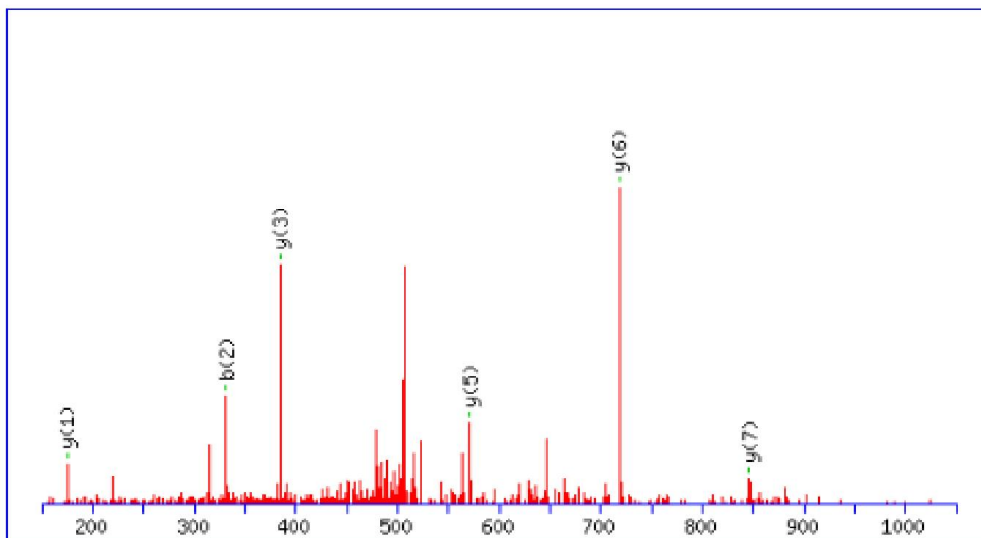
Found in **B7Z6Q6**, Kinesin-like protein KIF2C OS=Homo sapiens GN=KIF2C PE=2 SV=1

Match to Query 2857: 1047.634008 from(524.824280,2+) intensity(47148.5039)

Title: File371 Spectrum9101 scans: 11107

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fr1-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc) : 1047.6349

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 33 Expect: 0.12

Matches : 6/70 fragment ions using 9 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							8
2	331.2249	166.1161	314.1983	157.6028			Q	846.4832	423.7452	829.4567	415.2320	828.4726	414.7400	7
3	478.2933	239.6503	461.2667	231.1370			F	718.4246	359.7160	701.3981	351.2027	700.4141	350.7107	6
4	565.3253	283.1663	548.2988	274.6530	547.3147	274.1610	S	571.3562	286.1817	554.3297	277.6685	553.3457	277.1765	5
5	664.3937	332.7005	647.3672	324.1872	646.3832	323.6952	V	484.3242	242.6657	467.2976	234.1525			4
6	761.4465	381.2269	744.4199	372.7136	743.4359	372.2216	P	385.2558	193.1315	368.2292	184.6183			3
7	874.5306	437.7689	857.5040	429.2556	856.5200	428.7636	L	288.2030	144.6051	271.1765	136.0919			2
8							R	175.1190	88.0631	158.0924	79.5498			1

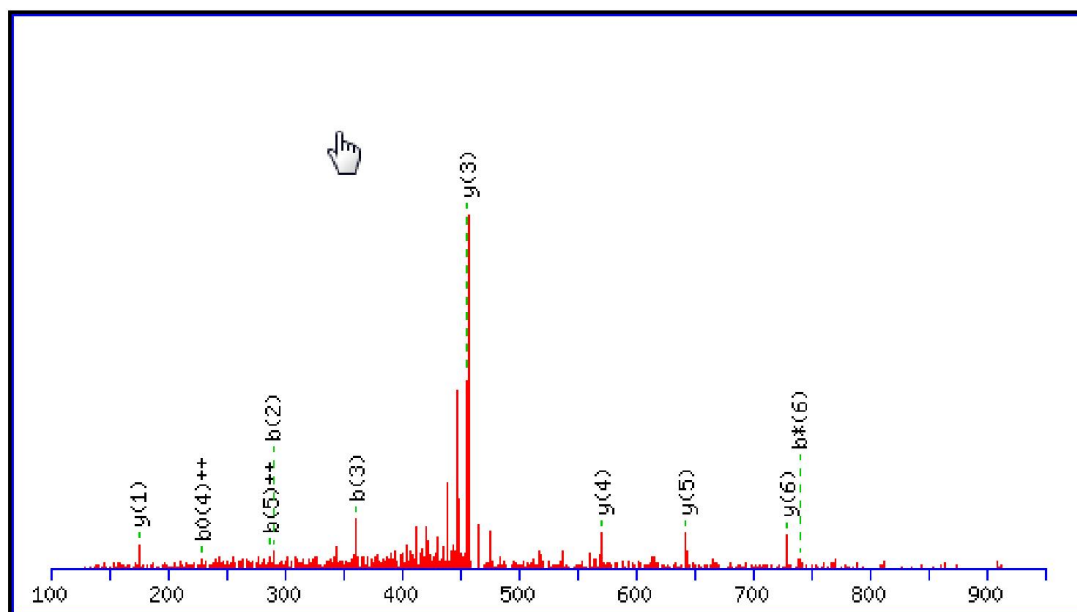
MS/MS Fragmentation of **KSADPKR**Found in **E9PNV7**, Zinc finger protein 707 (Fragment) OS=Homo sapiens GN=ZNF707 PE=2 SV=1

Match to Query 1844: 930.540688 from(466.277620,2+) intensity(13520.3525)

Title: File368 Spectrum1790 scans: 2763

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-6-3-K562-Kpropio-methyl-IP-Fr18-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc)**: 930.5407

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)**K6** : Propionyl (K)

Ions Score: 33 Expect: 0.16

Matches : 10/64 fragment ions using 16 mo

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							7
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	S	729.3890	365.1981	712.3624	356.6849	711.3784	356.1928	6
3	361.2354	181.1214	344.2089	172.6081	343.2249	172.1161	A	642.3570	321.6821	625.3304	313.1688	624.3464	312.6768	5
4	476.2624	238.6348	459.2358	230.1216	458.2518	229.6295	D	571.3198	286.1636	554.2933	277.6503	553.3093	277.1583	4
5	573.3151	287.1612	556.2886	272.6479	555.3046	273.1559	P	456.2929	228.6501	439.2663	220.1368			3
6	757.4363	379.2218	740.4098	370.7085	739.4258	370.2165	K	359.2401	180.1237	342.2136	171.6104			2
7							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 7205: 1354.857388 from(678.435970,2+) intensity(117963.9531)

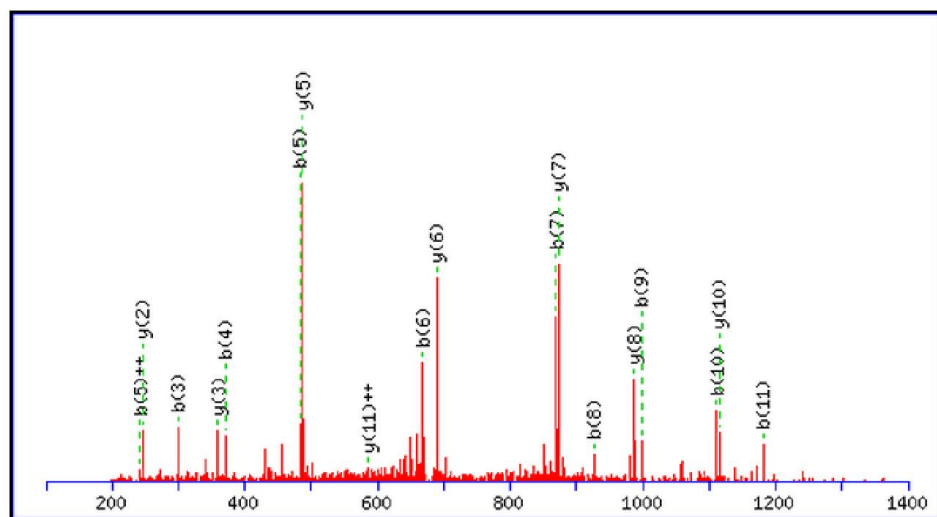
Title: File338 Spectrum11325 scans: 12646

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr17-ZW.mgf

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

Or, Plot from to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1354.8569
 Fixed modifications: Carbamidomethyl (C) (apply to specified r
 Variable modifications:
 K1 : Propionyl (K)
 K6 : Propionyl (K)
 K7 : Propionyl-(13CD3)Methyl (K)
 Ions Score: 66 Expect: 3.1e-005
 Matches : 19/88 fragment ions using 35 most intense peaks (h

#	b	b ⁺⁺	b*	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546	K					12
2	242.1499	121.5786	225.1234	113.0653	G	1171.7430	586.3751	1154.7165	577.8619	11
3	299.1714	150.0893	282.1448	141.5761	G	1114.7215	557.8644	1097.6950	549.3511	10
4	370.2085	185.6079	353.1819	177.0946	A	1057.7001	529.3537	1040.6735	520.8404	9
5	483.2926	242.1499	466.2660	233.6366	L	986.6630	493.8351	969.6364	485.3218	8
6	667.4137	334.2105	650.3872	325.6972	K	873.5789	437.2931	856.5523	428.7798	7
7	869.5728	435.2900	852.5462	426.7767	K	689.4577	345.2325	672.4312	336.7192	6
8	926.5942	463.8007	909.5677	455.2875	G	487.2987	244.1530	470.2722	235.6397	5
9	997.6313	499.3193	980.6048	490.8060	A	430.2772	215.6423	413.2507	207.1290	4
10	1110.7154	555.8613	1093.6888	547.3481	I	359.2401	180.1237	342.2136	171.6104	3
11	1181.7525	591.3799	1164.7260	582.8666	A	246.1561	123.5817	229.1295	115.0684	2
12					R	175.1190	88.0631	158.0924	79.5498	1

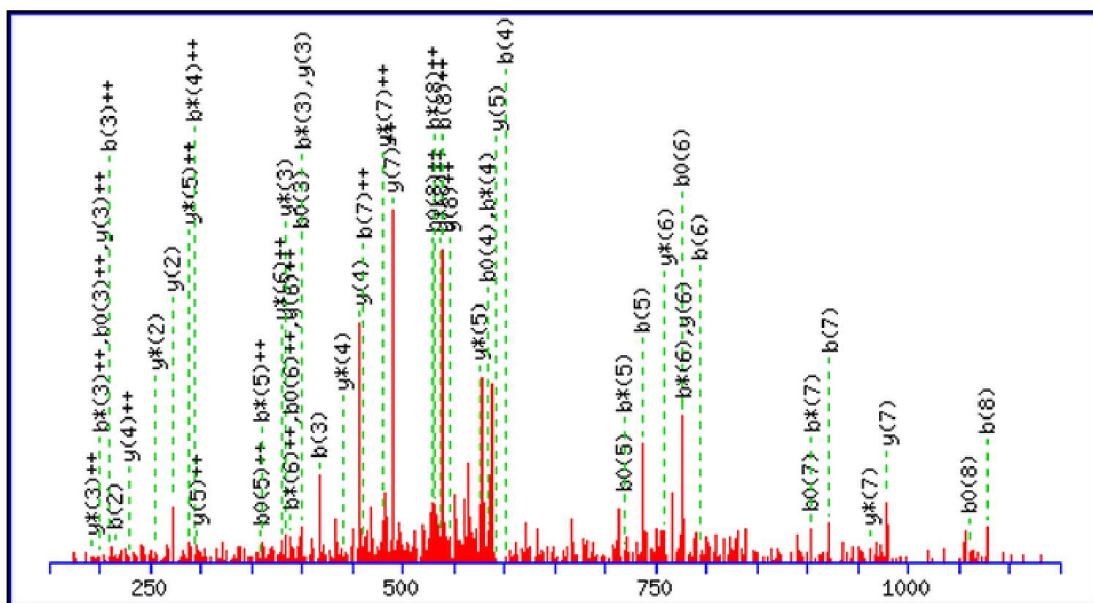
Found in **B0QY89**, Eukaryotic translation initiation factor 3 subunit L OS=Homo sapiens GN=EIF3L PE=2 SV=1

Match to Query 5063: 1191.717988 from(596.866270,2+) intensity(30733.3301)

Title: File338 Spectrum9670 scans: 10880

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr17-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(ca

Fixed modifications: Carbamidomethyl (C) (

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

K4 : Propionyl (K)

M5 : Label:13C(1)2H(3) (M)

Ions Score: 26 Expect: 0.65 ([help](#))

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
1	102.0550	51.5311			84.0444	42.5258	T					9
2	215.1390	108.0731			197.1285	99.0679	L	1091.6787	546.3430	1074.6521	537.8297	8
3	417.2980	209.1527	400.2715	200.6394	399.2875	200.1474	K	978.5946	489.8009	961.5681	481.2877	7
4	601.4192	301.2132	584.3927	292.7000	583.4086	292.2080	K	776.4356	388.7214	759.4091	380.2082	6
5	736.4819	368.7446	719.4553	360.2313	718.4713	359.7393	M	592.3144	296.6609	575.2879	288.1476	5
6	793.5033	397.2553	776.4768	388.7420	775.4928	388.2500	G	457.2518	229.1295	440.2252	220.6162	4
7	921.5619	461.2846	904.5354	452.7713	903.5514	452.2793	Q	400.2303	200.6188	383.2037	192.1055	3
8	1077.6630	539.3352	1060.6365	530.8219	1059.6525	530.3299	R	272.1717	136.5895	255.1452	128.0762	2
9							P	116.0706	58.5389			1

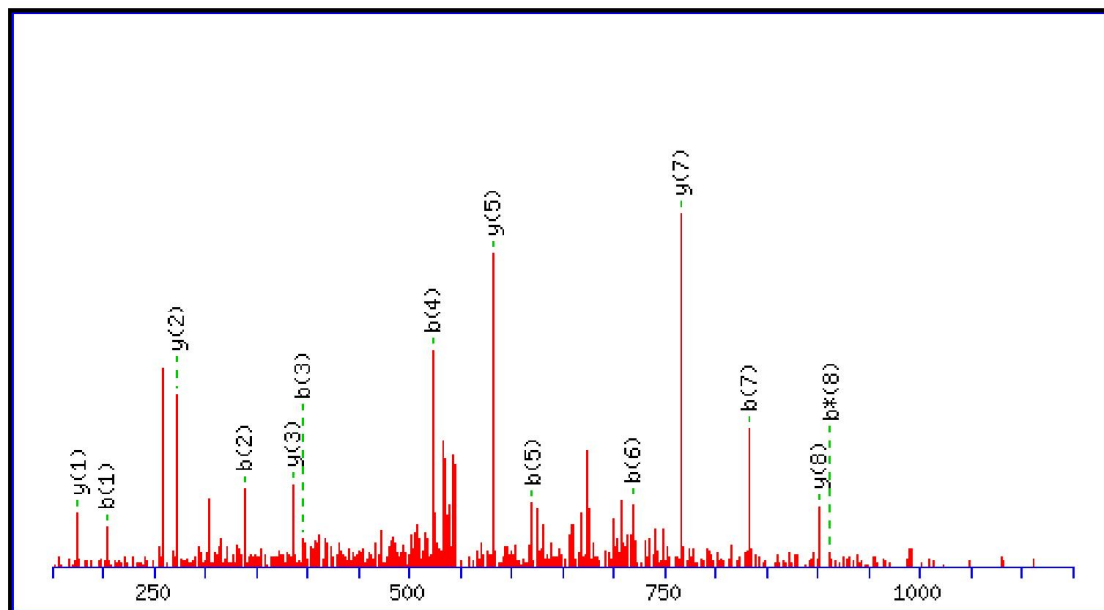
MS/MS Fragmentation of **KMGQPVLPR**Found in **B3KP41**, PHD finger protein 3 (Fragment) OS=Homo sapiens GN=PHF3 PE=2 SV=1

Match to Query 2817: 1102.671728 from(552.343140, 2+) intensity(35497.2188)

Title: File362 Spectrum8705 scans: 9956

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-6-3-K562-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1102.6714**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**M2** : Label:13C(1)2H(3) (M)**Ions Score:** 44 **Expect:** 0.011**Matches** : 14/64 fragment ions using 29 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735	K					9
2	338.2290	169.6181	321.2024	161.1048	I	901.5197	451.2635	884.4931	442.7502	8
3	395.2504	198.1288	378.2239	189.6156	G	766.4570	383.7321	749.4305	375.2189	7
4	523.3090	262.1581	506.2825	253.6449	Q	709.4355	355.2214	692.4090	346.7081	6
5	620.3618	310.6845	603.3352	302.1712	P	581.3770	291.1921	564.3504	282.6788	5
6	719.4302	360.2187	702.4036	351.7055	V	484.3242	242.6657	467.2976	234.1525	4
7	832.5142	416.7608	815.4877	408.2475	L	385.2558	193.1315	368.2292	184.6183	3
8	929.5670	465.2871	912.5405	456.7739	P	272.1717	136.5895	255.1452	128.0762	2
9					R	175.1190	88.0631	158.0924	79.5498	1

MS/MS Fragmentation of **AYHKYKAKR**
 Found in **E9PIZ3**, 60S ribosomal protein L8 OS=Homo sapiens GN=RPL8 PE=2 SV=1

Match to Query 5327: 1349.771468 from(675.893010, 2+) intensity(20911.5605)

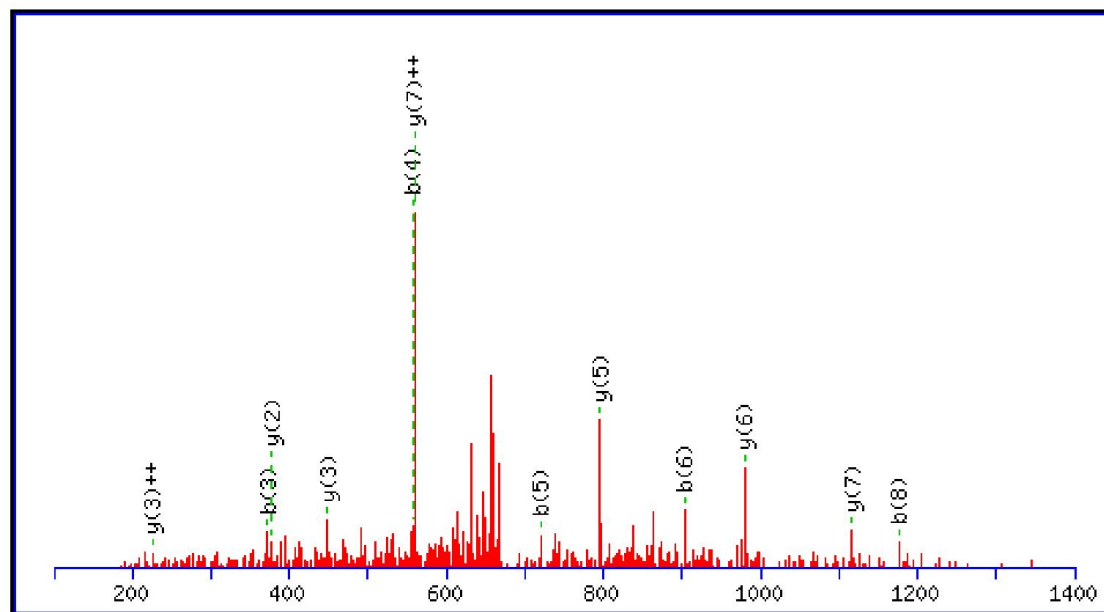
Title: File362 Spectrum6575 scans: 7684

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-6-3-K562-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1349.7728

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

Variable modifications:

K4 : Propionyl (K)

K6 : Propionyl (K)

K8 : Propionyl-(13CD3)Methyl (K)

Ions Score: 29 **Expect:** 0.47

Matches : 12/58 fragment ions using 24 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	#
1	72.0444	36.5258			A					9
2	233.1077	118.0575			Y	1279.7430	640.3751	1262.7165	631.8619	8
3	372.1666	186.5870			H	1116.6797	558.8435	1099.6531	550.3302	7
4	556.2878	278.6475	539.2613	270.1343	K	979.6208	490.3140	962.5942	481.8007	6
5	719.3511	360.1792	702.3246	351.6659	Y	795.4996	398.2534	778.4730	389.7402	5
6	903.4723	452.2398	886.4458	443.7265	K	632.4363	316.7218	615.4097	308.2085	4
7	974.5094	487.7584	957.4829	479.2451	A	448.3151	224.6612	431.2885	216.1479	3
8	1176.6684	588.8379	1159.6419	580.3246	K	377.2780	189.1426	360.2514	180.6293	2
9					R	175.1190	88.0631	158.0924	79.5498	1

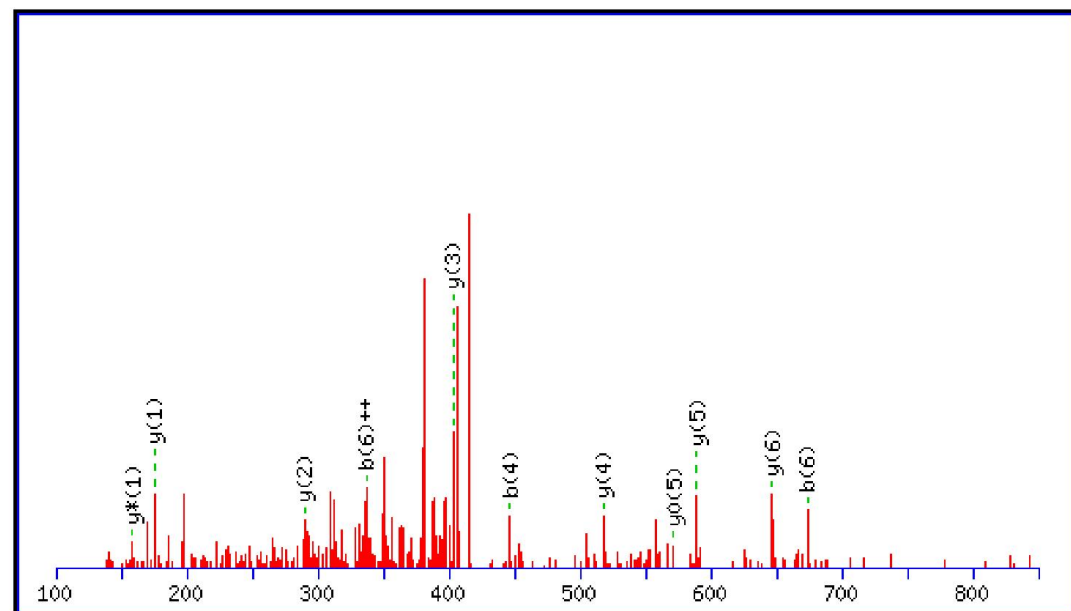
MS/MS Fragmentation of **KGADLDR**Found in **B3KNZ8**, Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 3 OS=Homo sapiens GN=CENTG3 PE=2 SV=1

Match to Query 531: 847.467808 from(424.741180, 2+) intensity(8125.7539)

Title: File362 Spectrum3602 scans: 4510

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-6-3-K562-Kpropio-methyl-IP-Fr16-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 847.4672**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 30 **Expect:** 0.21**Matches** : 11/64 fragment ions using 3f

#	b	b ⁺⁺	b [*]	b ^{***}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							7
2	260.1878	130.5975	243.1612	122.0842			G	646.3155	323.6614	629.2889	315.1481	628.3049	314.6561	6
3	331.2249	166.1161	314.1983	157.6028			A	589.2940	295.1506	572.2675	286.6374	571.2835	286.1454	5
4	446.2518	223.6295	429.2253	215.1163	428.2412	214.6243	D	518.2569	259.6321	501.2304	251.1188	500.2463	250.6268	4
5	559.3359	280.1716	542.3093	271.6583	541.3253	271.1663	L	403.2300	202.1186	386.2034	193.6053	385.2194	193.1133	3
6	674.3628	337.6850	657.3363	329.1718	656.3523	328.6798	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
7							R	175.1190	88.0631	158.0924	79.5498			1

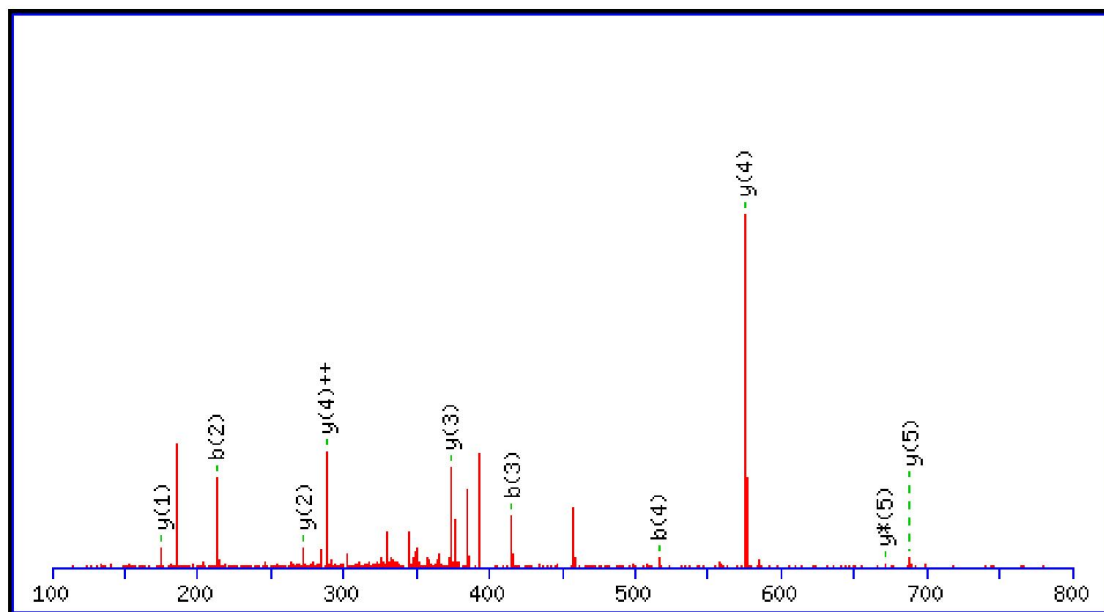
MS/MS Fragmentation of **VIKTPR**Found in **Q9UMN6**, Histone-lysine N-methyltransferase MLL4 OS=Homo sapiens GN=WBP7 PE=1 SV=1

Match to Query 638: 786.523168 from(394.268860, 2+) intensity(120378.4922)

Title: File322 Spectrum4776 scans: 5610

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr15-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 786.5236**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K3** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 29 **Expect:** 0.13**Matches** : 10/46 fragment ions using 21 most intense

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							6
2	213.1598	107.0835					I	688.4625	344.7349	671.4359	336.2216	670.4519	335.7296	5
3	415.3188	208.1630	398.2922	199.6497			K	575.3784	288.1928	558.3519	279.6796	557.3678	279.1876	4
4	516.3664	258.6869	499.3399	250.1736	498.3559	249.6816	T	373.2194	187.1133	356.1928	178.6001	355.2088	178.1081	3
5	613.4192	307.2132	596.3927	298.7000	595.4086	298.2080	P	272.1717	136.5895	255.1452	128.0762			2
6							R	175.1190	88.0631	153.0924	79.5498			1

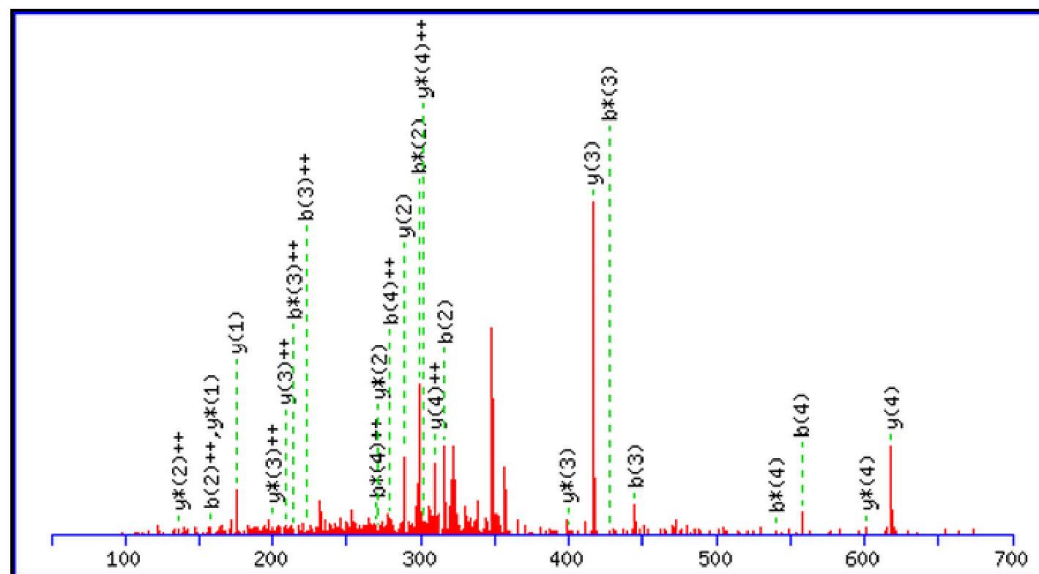
Found in **Q5T6W5**, Heterogeneous nuclear ribonucleoprotein K OS=Homo sapiens GN=HNRNPK PE=2 SV=1

Match to Query 203: 730.496248 from(366.255400,2+) intensity(11531.8877)

Title: File322 Spectrum6074 scans: 7020

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr15-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 730.4974

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

Variable modifications:

K2 : Propionyl-(13CD3)Met

Ions Score: 30 Expect: 0.12

#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	114.0913	57.5493			I					5
2	316.2504	158.6288	299.2238	150.1155	K	618.4206	309.7139	601.3941	301.2007	4
3	444.3089	222.6581	427.2824	214.1448	Q	416.2616	208.6344	399.2350	200.1212	3
4	557.3930	279.2001	540.3664	270.6869	I	288.2030	144.6051	271.1765	136.0919	2
5					R	175.1190	88.0631	158.0924	79.5498	1

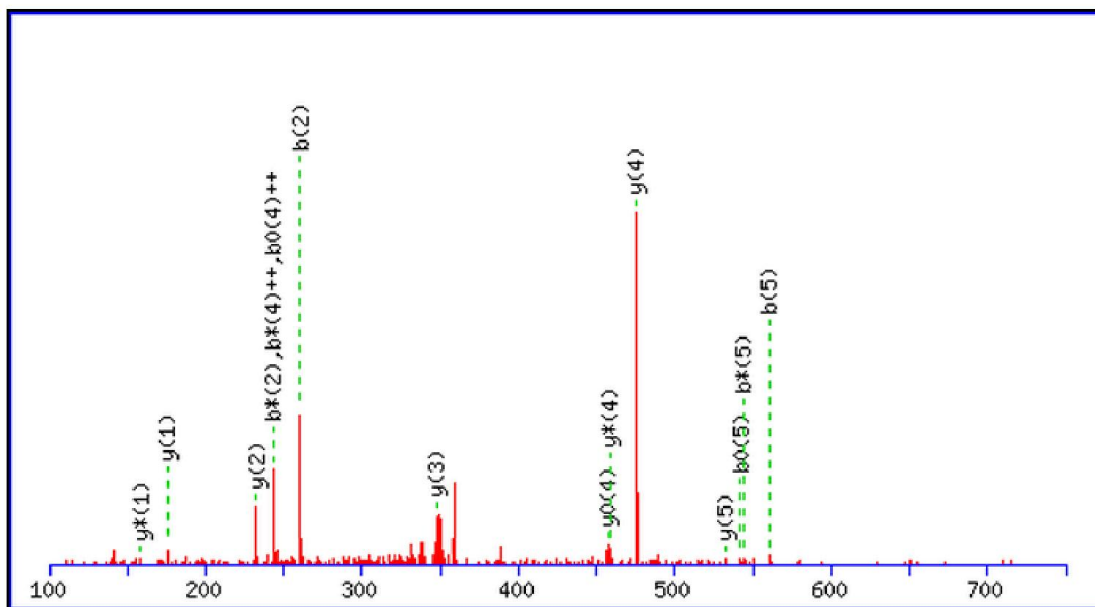
Found in **J3KR15**, N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase D OS=Homo sapiens GN=NAPEPLD PE=4 SV=1

Match to Query 217: 733.435708 from(367.725130,2+) intensity(31839.1367)

Title: File322 Spectrum1004 scans: 1475

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr15-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 733.4355

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

Variable modifications:

K1 : Propionyl-(13C)

Ions Score: 36 Expect:

Matches : 15/50 fragment

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							6
2	260.1878	130.5975	243.1612	122.0842			G	532.2838	266.6455	515.2572	258.1323	514.2732	257.6402	5
3	388.2827	194.6450	371.2562	186.1317			K	475.2623	238.1348	458.2358	229.6215	457.2518	229.1295	4
4	503.3097	252.1585	486.2831	243.6452	485.2991	243.1532	D	347.1674	174.0873	330.1408	165.5740	329.1568	165.0820	3
5	560.3311	280.6692	543.3046	272.1559	542.3206	271.6639	G	232.1404	116.5738	215.1139	108.0606			2
6							R	175.1190	88.0631	158.0924	79.5498			1

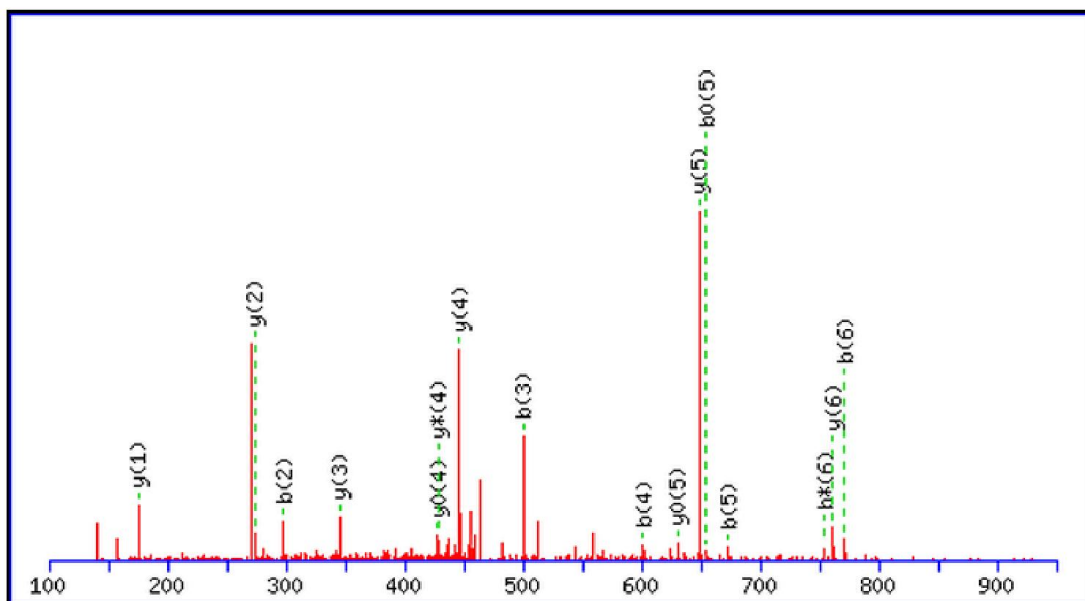
Found in **F6QR24**, Nuclear pore complex protein Nup153 OS=Homo sapiens GN=NUP153 PE=2 SV=1

Match to Query 2027: 944.628208 from(473.321380,2+) intensity(59718.7695)

Title: File359 Spectrum6194 scans: 7336

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-6-3-K562-Kpropio-methyl-IP-Fr14-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 944.6291

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

Variable modifications:

K1 : Propionyl (K)

K3 : Propionyl-(13CD3)Me

Ions Score: 37 Expect: 0.02

Matches : 16/60 fragment ion

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							7
2	298.2125	149.6099	281.1860	141.0966			I	761.5152	381.2613	744.4887	372.7480	743.5047	372.2560	6
3	500.3715	250.6894	483.3450	242.1761			K	648.4312	324.7192	631.4046	316.2059	630.4206	315.7139	5
4	601.4192	301.2132	584.3927	292.7000	583.4086	292.2080	T	446.2722	223.6397	429.2456	215.1264	428.2616	214.6344	4
5	672.4563	336.7318	655.4298	328.2185	654.4458	327.7265	A	345.2245	173.1159	328.1979	164.6026			3
6	771.5247	386.2660	754.4982	377.7527	753.5142	377.2607	V	274.1874	137.5973	257.1608	129.0840			2
7							R	175.1190	88.0631	158.0924	79.5498			1

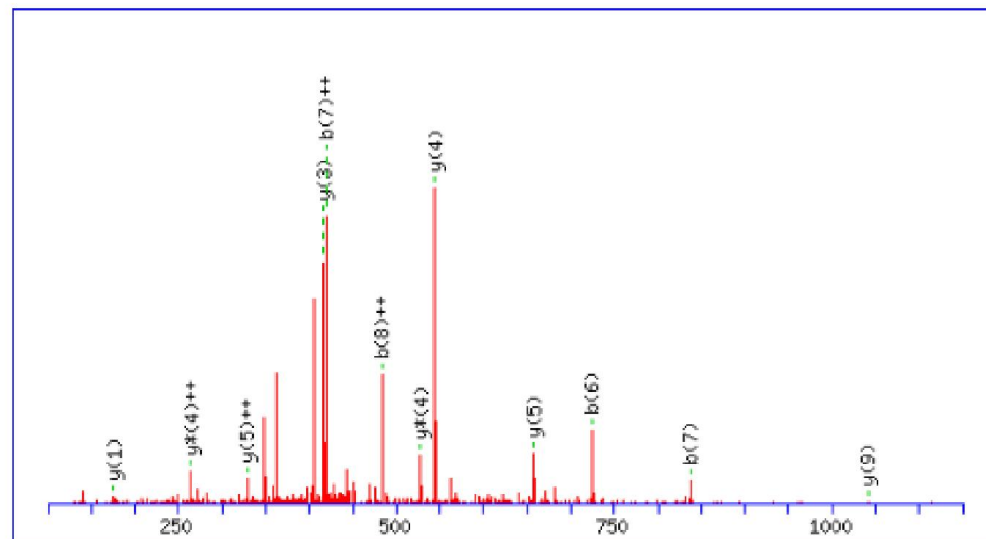
Found in **M0QZ22**, Protein Smaug homolog 2 OS=Homo sapiens GN=SAMD4B PE=4 SV=1

Match to Query 7830: 1379.879382 from(460.967070,3+) intensity(103940.1094)

Title: File359 Spectrum6643 scans: 7815

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-6-3-K562-Kpropio-methyl-IP-Fr14-ZW.mgf

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

Or, 100 1150 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1379.8885

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

Ions Score: 26 Expect: 0.24

Matches : 12/98 fragment ions using 20 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	138.0662	69.5367					H							11
2	340.2252	170.6162	323.1987	162.1030			K	1243.8369	622.4221	1226.8104	613.9088	1225.8263	613.4168	10
3	453.3093	227.1583	436.2827	218.6450			I	1041.6779	521.3426	1024.6513	512.8293	1023.6673	512.3373	9
4	524.3464	262.6768	507.3198	254.1636			A	928.5938	464.8006	911.5673	456.2873	910.5833	455.7953	8
5	637.4304	319.2189	620.4039	310.7056			L	857.5567	429.2820	840.5302	420.7687	839.5461	420.2767	7
6	724.4625	362.7349	707.4359	354.2216	706.4519	353.7296	S	744.4726	372.7400	727.4461	364.2267	726.4621	363.7347	6
7	837.5465	419.2769	820.5200	410.7636	819.5360	410.2716	I	657.4406	329.2239	640.4141	320.7107			5
8	965.6051	483.3062	948.5786	474.7929	947.5945	474.3009	Q	544.3566	272.6819	527.3300	264.1686			4
9	1093.7001	547.3537	1076.6735	538.8404	1075.6895	538.3484	K	416.2980	208.6526	399.2714	200.1394			3
10	1206.7841	603.8957	1189.7576	595.3824	1188.7736	594.8904	L	288.2030	144.6051	271.1765	136.0919			2
11							R	175.1190	88.0631	158.0924	79.5498			1

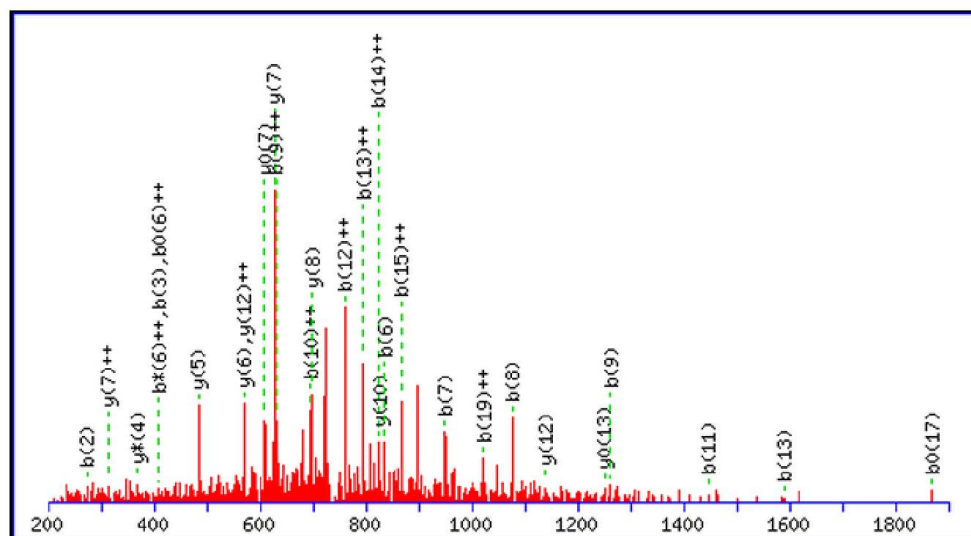
Found in **B5MCI0**, Smoothelin OS=Homo sapiens GN=SMTN PE=2 SV=1

Match to Query 16027: 2215.205892 from(739.409240,3+) intensity(84502.7578)

Title: File359 Spectrum14992 scans: 16720

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-6-3-K562-Kpropio-methyl-IP-Fr14-ZW.mgf

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

Or, 200 1900 Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 2215.2063

Fixed modifications: Carbamidomethyl (C) (apply to specified res

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

M3 : Label:13C(1)2H(3) (M)

K6 : Propionyl (K)

K9 : Propionyl (K)

Ions Score: 31 Expect: 0.53

Matches : 29/210 fragment ions using 72 most intense peaks

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							20
2	274.2034	137.6053	257.1769	129.0921			A	2014.0546	1007.5310	1997.0281	999.0177	1996.0441	998.5257	19
3	409.2661	205.1367	392.2395	196.6234			M	1943.0175	972.0124	1925.9910	963.4991	1925.0070	963.0071	18
4	522.3501	261.6787	505.3236	253.1654			I	1807.9549	904.4811	1790.9283	895.9678	1789.9443	895.4758	17
5	651.3927	326.2000	634.3662	317.6867	633.3822	317.1947	E	1694.8708	847.9390	1677.8442	839.4258	1676.8602	838.9338	16
6	835.5139	418.2606	818.4874	409.7473	817.5033	409.2553	K	1565.8282	783.4177	1548.8016	774.9045	1547.8176	774.4125	15
7	948.5980	474.8026	931.5714	466.2893	930.5874	465.7973	L	1381.7070	691.3571	1364.6805	682.8439	1363.6965	682.3519	14
8	1077.6406	539.3239	1060.6140	530.8106	1059.6300	530.3186	E	1268.6230	634.8151	1251.5964	626.3018	1250.6124	625.8098	13
9	1261.7617	631.3845	1244.7352	622.8712	1243.7512	622.3792	K	1139.5804	570.2938	1122.5538	561.7805	1121.5698	561.2885	12
10	1390.8043	695.9058	1373.7778	687.3925	1372.7938	686.9005	E	955.4592	478.2332	938.4326	469.7200	937.4486	469.2279	11
11	1447.8258	724.4165	1430.7993	715.9033	1429.8152	715.4113	G	826.4166	413.7119	809.3900	405.1987	808.4060	404.7067	10
12	1518.8629	759.9351	1501.8364	751.4218	1500.8523	750.9298	A	769.3951	385.2012	752.3686	376.6879	751.3846	376.1959	9
13	1589.9000	795.4537	1572.8735	786.9404	1571.8895	786.4484	A	698.3580	349.6826	681.3315	341.1694	680.3474	340.6774	8
14	1646.9215	823.9644	1629.8949	815.4511	1628.9109	814.9591	G	627.3209	314.1641	610.2944	305.6508	609.3103	305.1588	7
15	1733.9535	867.4804	1716.9270	858.9671	1715.9430	858.4751	S	570.2994	285.6534	553.2729	277.1401	552.2889	276.6481	6
16	1831.0063	916.0068	1813.9797	907.4935	1812.9957	907.0015	P	483.2674	242.1373	466.2409	233.6241			5
17	1888.0277	944.5175	1871.0012	936.0042	1870.0172	935.5122	G	386.2146	193.6110	369.1881	185.0577			4
18	1945.0492	973.0282	1928.0227	964.5150	1927.0386	964.0230	G	329.1932	165.1002	312.1666	156.5870			3
19	2042.1020	1021.5546	2025.0754	1013.0414	2024.0914	1012.5493	P	272.1717	136.5895	255.1452	128.0762			2
20							R	175.1190	88.0631	158.0924	79.5498			1

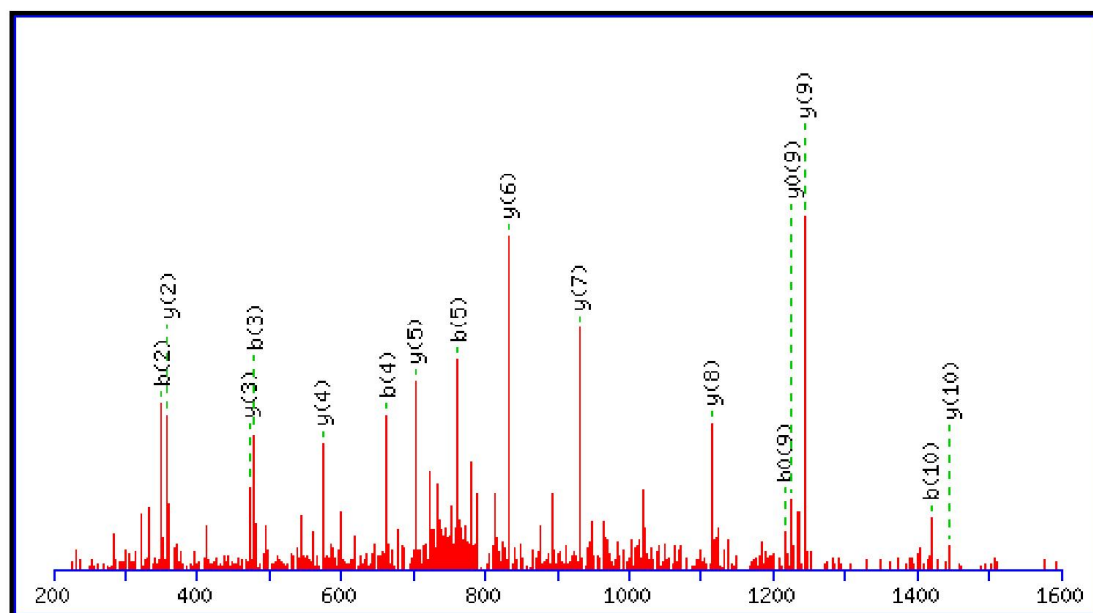
Found in **Q9Y6V7**, Probable ATP-dependent RNA helicase DDX49 OS=Homo sapiens GN=DDX49 PE=1 SV=1

Match to Query 9979: 1591.910248 from(796.962400, 2+) intensity(52408.3398)

Title: File336 Spectrum12200 scans: 13758

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr13-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1591.9094**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-(13CD3)Methyl (K)**K4** : Propionyl (K)**K10** : Propionyl (K)**Ions Score:** 62 **Expect:** 0.00027**Matches** : 16/108 fragment ions using 27 most intense peaks

#	b	b ⁺⁺	b ⁺	b ⁺ ++	b ⁰	b ⁰ ++	Seq.	y	y ⁺⁺	y ⁺	y ⁺ ++	y ⁰	y ⁰ ++	#
1	148.0757	74.5415					F							11
2	350.2347	175.6210	333.2082	167.1077			K	1445.8483	723.4278	1428.8217	714.9145	1427.8377	714.4225	10
3	479.2773	240.1423	462.2507	231.6290	461.2667	231.1370	E	1243.6892	622.3483	1226.6627	613.8350	1225.6787	613.3430	9
4	663.3985	332.2029	646.3719	323.6896	645.3879	323.1976	K	1114.6467	557.8270	1097.6201	549.3137	1096.6361	548.8217	8
5	762.4669	381.7371	745.4403	373.2238	744.4563	372.7318	V	930.5255	465.7664	913.4989	457.2531	912.5149	456.7611	7
6	891.5095	446.2584	874.4829	437.7451	873.4989	437.2531	E	831.4571	416.2322	814.4305	407.7189	813.4465	407.2269	6
7	1020.5521	510.7797	1003.5255	502.2664	1002.5415	501.7744	E	702.4145	351.7109	685.3879	343.1976	684.4039	342.7056	5
8	1121.5998	561.3035	1104.5732	552.7902	1103.5892	552.2982	T	573.3719	287.1896	556.3453	278.6763	555.3613	278.1843	4
9	1234.6838	617.8455	1217.6573	609.3323	1216.6733	608.8403	L	472.3242	236.6657	455.2976	228.1525			3
10	1418.8050	709.9061	1401.7784	701.3929	1400.7944	700.9009	K	359.2401	180.1237	342.2136	171.6104			2
11							R	175.1190	88.0631	158.0924	79.5498			1

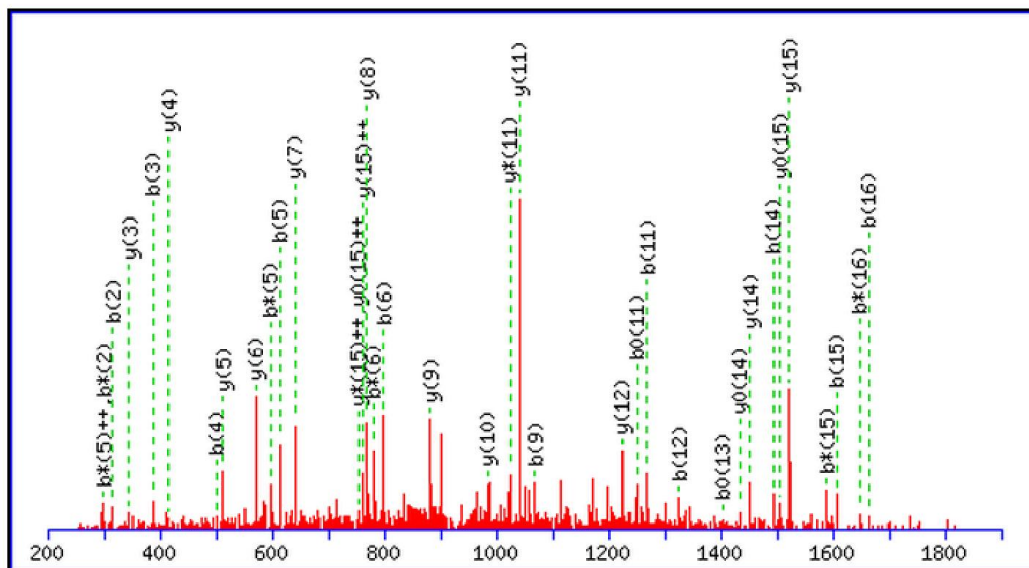
Found in **O94761**, ATP-dependent DNA helicase Q4 OS=Homo sapiens GN=RECQL4 PE=1 SV=1

Match to Query 12792: 1837.107388 from(919.560970,2+) intensity(66936.5391)

Title: File336 Spectrum14773 scans: 16502

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr13-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1837.1058

Fixed modifications: Carbamidomethyl (C) (apply to specific)

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K6 : Propionyl (K)

Ions Score: 67 Expect: 3e-005

Matches : 37/158 fragment ions using 78 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							17
2	316.2504	158.6288	299.2238	150.1155			K	1725.0290	863.0181	1708.0025	854.5049	1707.0185	854.0129	16
3	387.2875	194.1474	370.2609	185.6341			A	1522.8700	761.9386	1505.8435	753.4254	1504.8594	752.9334	15
4	501.3304	251.1688	484.3038	242.6556			N	1451.8329	726.4201	1434.8063	717.9068	1433.8223	717.4148	14
5	614.4145	307.7109	597.3879	299.1976			L	1337.7900	669.3986	1320.7634	660.8853	1319.7794	660.3933	13
6	798.5356	399.7715	781.5091	391.2582			K	1224.7059	612.8566	1207.6793	604.3433	1206.6953	603.8513	12
7	855.5571	428.2822	838.5306	419.7689			G	1040.5847	520.7960	1023.5582	512.2827	1022.5742	511.7907	11
8	956.6048	478.8060	939.5782	470.2928	938.5942	469.8007	T	983.5633	492.2853	966.5367	483.7720	965.5527	483.2800	10
9	1069.6888	535.3481	1052.6623	526.8348	1051.6783	526.3428	L	882.5156	441.7614	865.4890	433.2482			9
10	1197.7474	599.3773	1180.7209	590.8641	1179.7369	590.3721	Q	769.4315	385.2194	752.4050	376.7061			8
11	1268.7845	634.8959	1251.7580	626.3826	1250.7740	625.8906	A	641.3729	321.1901	624.3464	312.6768			7
12	1325.8060	663.4066	1308.7795	654.8934	1307.7954	654.4014	G	570.3358	285.6715	553.3093	277.1583			6
13	1422.8588	711.9330	1405.8322	703.4197	1404.8482	702.9277	P	513.3144	257.1608	496.2878	248.6475			5
14	1493.8959	747.4516	1476.8693	738.9383	1475.8853	738.4463	A	416.2616	208.6344	399.2350	200.1212			4
15	1606.9799	803.9936	1589.9534	795.4803	1588.9694	794.9883	L	345.2245	173.1159	328.1979	164.6026			3
16	1664.0014	832.5043	1646.9749	823.9911	1645.9908	823.4991	G	232.1404	116.5738	215.1139	108.0606			2
17							R	175.1190	88.0631	158.0924	79.5498			1

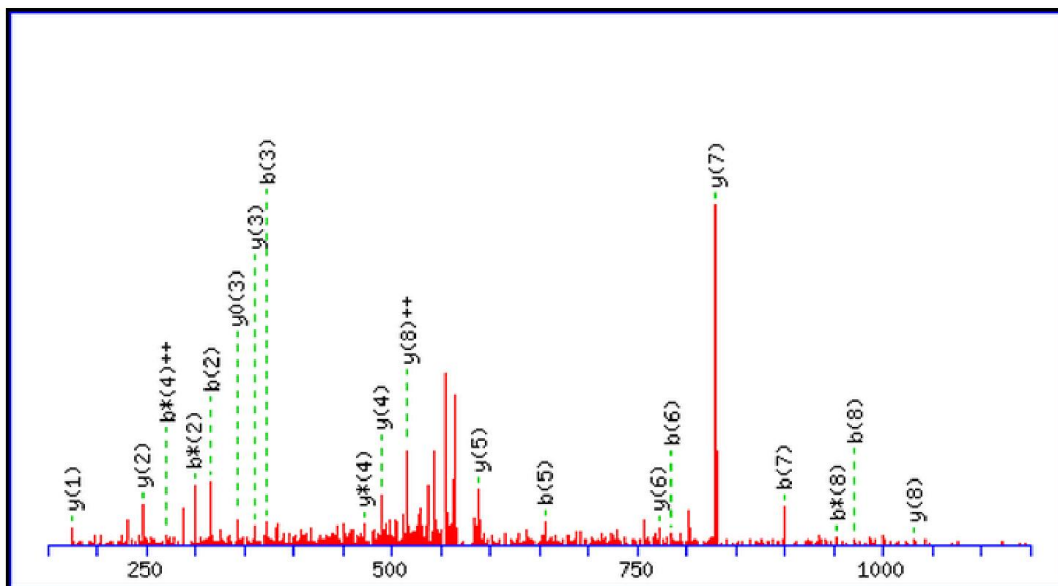
Found in **Q6R954**, Polymerase delta interacting protein 46 OS=Homo sapiens GN=PDIP46 PE=2 SV=1

Match to Query 4700: 1143.687348 from(572.850950,2+) intensity(36830.8047)

Title: File336 Spectrum5985 scans: 7126

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr13-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1143.6884

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K4 : Propionyl (K)

Ions Score: 28 Expect: 0.41

Matches : 20/78 fragment ions using 7

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					I							9
2	316.2504	158.6288	299.2238	150.1155			K	1031.6117	516.3095	1014.5851	507.7962	1013.6011	507.3042	8
3	373.2718	187.1395	356.2453	178.6263			G	829.4526	415.2300	812.4261	406.7167	811.4421	406.2247	7
4	557.3930	279.2001	540.3664	270.6869			K	772.4312	386.7192	755.4046	378.2060	754.4206	377.7139	6
5	656.4614	328.7343	639.4349	320.2211			V	588.3100	294.6586	571.2835	286.1454	570.2994	285.6534	5
6	784.5200	392.7636	767.4934	384.2504			Q	489.2416	245.1244	472.2150	236.6112	471.2310	236.1191	4
7	899.5469	450.2771	882.5204	441.7638	881.5364	441.2718	D	361.1830	181.0951	344.1565	172.5819	343.1724	172.0899	3
8	970.5840	485.7957	953.5575	477.2824	952.5735	476.7904	A	246.1561	123.5817	229.1295	115.0684			2
9							R	175.1190	88.0631	158.0924	79.5498			1

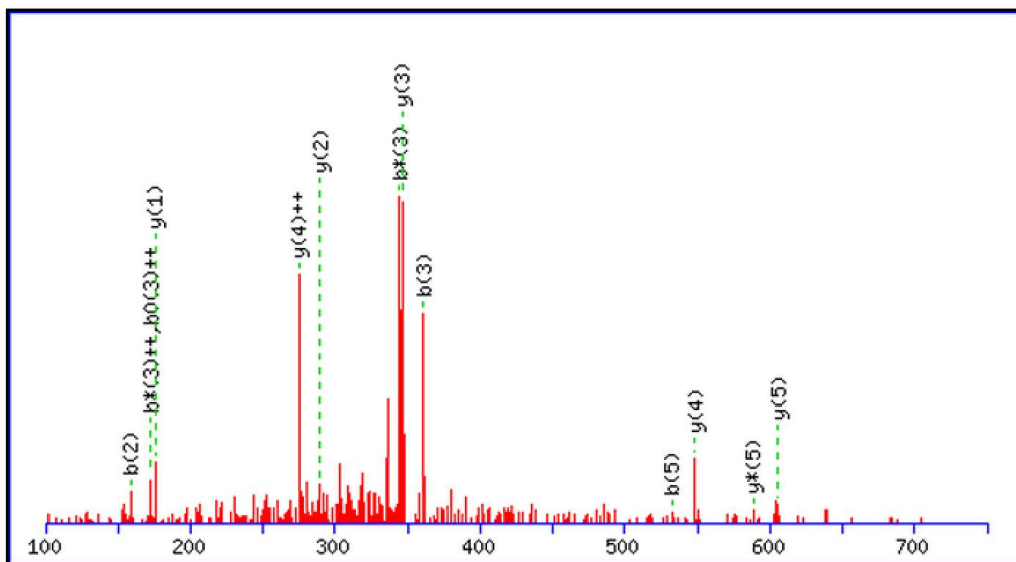
Found in **G3V3N2**, Rho guanine nucleotide exchange factor 40 (Fragment) OS=Homo sapiens GN=ARHGEF40 PE=2 SV=1

Match to Query 31: 705.404568 from(353.709560,2+) intensity(14358.3887)

Title: File336 Spectrum1010 scans: 1533

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZWk562\2013-5-23-K562-Kpropio-methyl-IP-Fr13-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 705.4042

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

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

Ions Score: 30 Expect: 0.22

Matches : 13/46 fragment ions

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
1	102.0550	51.5311			84.0444	42.5258	T					6
2	159.0764	80.0418			141.0659	71.0366	G	605.3638	303.1855	588.3373	294.6723	5
3	361.2354	181.1214	344.2089	172.6081	343.2249	172.1161	K	548.3424	274.6748	531.3158	266.1615	4
4	418.2569	209.6321	401.2303	201.1188	400.2463	200.6268	G	346.1833	173.5953	329.1568	165.0820	3
5	532.2998	266.6535	515.2733	258.1403	514.2893	257.6483	N	289.1619	145.0846	272.1353	136.5713	2
6							R	175.1190	88.0631	158.0924	79.5498	1

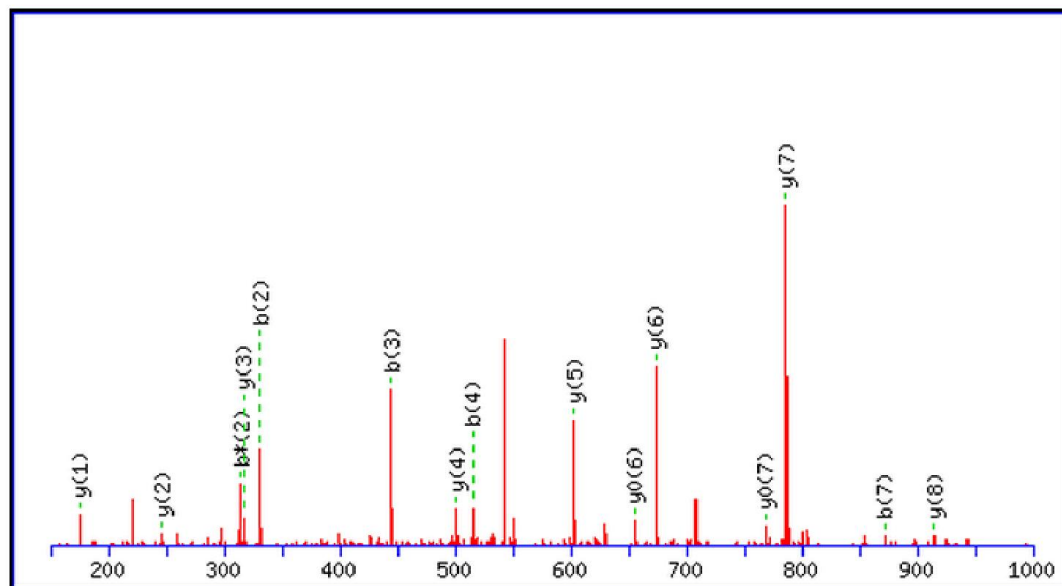
Found in **Q71DI3**, Histone H3.2 OS=Homo sapiens GN=HIST2H3A PE=1 SV=3

Match to Query 4351: 1115.691008 from(558.852780,2+) intensity(1977045.5000)

Title: File334 Spectrum7582 scans: 8668

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr12-ZW.mgf

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

Or, 150 to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral p

Fixed modifications: Carbamidic

Variable modifications:

K1 : Propionyl-(13CD3)Meth

K6 : Propionyl (K)

Ions Score: 62 Expect: 0.0001

Matches : 15/80 fragment ions

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							9
2	331.2249	166.1161	314.1983	157.6028			Q	914.5418	457.7745	897.5152	449.2613	896.5312	448.7693	8
3	444.3089	222.6581	427.2824	214.1448			L	786.4832	393.7452	769.4567	385.2320	768.4726	384.7400	7
4	515.3460	258.1767	498.3195	249.6634			A	673.3992	337.2032	656.3726	328.6899	655.3886	328.1979	6
5	616.3937	308.7005	599.3672	300.1872	598.3832	299.6952	T	602.3620	301.6847	585.3355	293.1714	584.3515	292.6794	5
6	800.5149	400.7611	783.4884	392.2478	782.5043	391.7558	K	501.3144	251.1608	484.2878	242.6475			4
7	871.5520	436.2796	854.5255	427.7664	853.5415	427.2744	A	317.1932	159.1002	300.1666	150.5870			3
8	942.5891	471.7982	925.5626	463.2849	924.5786	462.7929	A	246.1561	123.5817	229.1295	115.0684			2
9							R	175.1190	88.0631	158.0924	79.5498			1

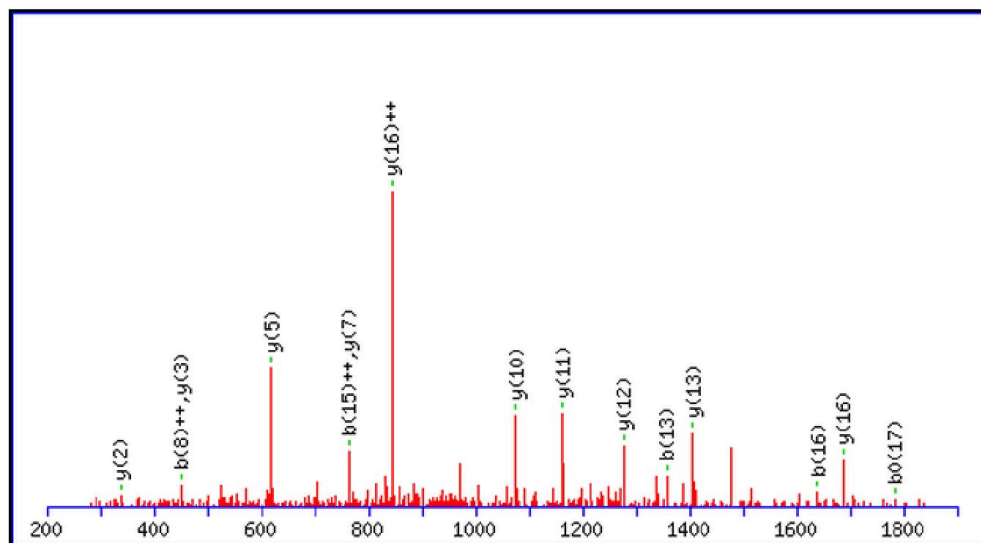
Found in **E9PEI0**, Cell division cycle-associated protein 2 OS=Homo sapiens GN=CDCA2 PE=2 SV=1

Match to Query 14607: 1975.026708 from(988.520630,2+) intensity(55254.6367)

Title: File334 Spectrum10677 scans: 11969

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr12-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1975.0283

Fixed modifications: Carbamidomethyl (C) (apply to specified

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 74 Expect: 2.5e-005

Matches : 15/192 fragment ions using 16 most intense peaks

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							18
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	S	1773.8766	887.4419	1756.8501	878.9287	1755.8660	878.4367	17
3	387.2511	194.1292	370.2245	185.6159	369.2405	185.1239	P	1686.8446	843.9259	1669.8180	835.4127	1668.8340	834.9206	16
4	500.3351	250.6712	483.3086	242.1579	482.3246	241.6659	L	1589.7918	795.3995	1572.7653	786.8863	1571.7812	786.3943	15
5	571.3723	286.1898	554.3457	277.6765	553.3617	277.1845	A	1476.7077	738.8575	1459.6812	730.3442	1458.6972	729.8522	14
6	699.4308	350.2191	682.4043	341.7058	681.4203	341.2138	Q	1405.6706	703.3390	1388.6441	694.8257	1387.6601	694.3337	13
7	814.4578	407.7325	797.4312	399.2193	796.4472	398.7272	D	1277.6121	639.3097	1260.5855	630.7964	1259.6015	630.3044	12
8	901.4898	451.2485	884.4633	442.7353	883.4792	442.2433	S	1162.5851	581.7962	1145.5586	573.2829	1144.5745	572.7909	11
9	998.5426	499.7749	981.5160	491.2616	980.5320	490.7696	P	1075.5531	538.2802	1058.5265	529.7669	1057.5425	529.2749	10
10	1085.5746	543.2909	1068.5481	534.7777	1067.5640	534.2857	S	978.5003	489.7538	961.4738	481.2405	960.4898	480.7485	9
11	1213.6332	607.3202	1196.6066	598.8070	1195.6226	598.3149	Q	891.4683	446.2378	874.4417	437.7245	873.4577	437.2325	8
12	1270.6546	635.8310	1253.6281	627.3177	1252.6441	626.8257	G	763.4097	382.2085	746.3832	373.6952	745.3991	373.2032	7
13	1357.6867	679.3470	1340.6601	670.8337	1339.6761	670.3417	S	706.3883	353.6978	689.3617	345.1845	688.3777	344.6925	6
14	1454.7394	727.8734	1437.7129	719.3601	1436.7289	718.8681	P	619.3562	310.1817	602.3297	301.6685			5
15	1525.7765	763.3919	1508.7500	754.8786	1507.7660	754.3866	A	522.3035	261.6554	505.2769	253.1421			4
16	1638.8606	819.9339	1621.8341	811.4207	1620.8500	810.9287	L	451.2663	226.1368	434.2398	217.6235			3
17	1801.9239	901.4656	1784.8974	892.9523	1783.9134	892.4603	Y	338.1823	169.5948	321.1557	161.0815			2
18							R	175.1190	88.0631	158.0924	79.5498			1

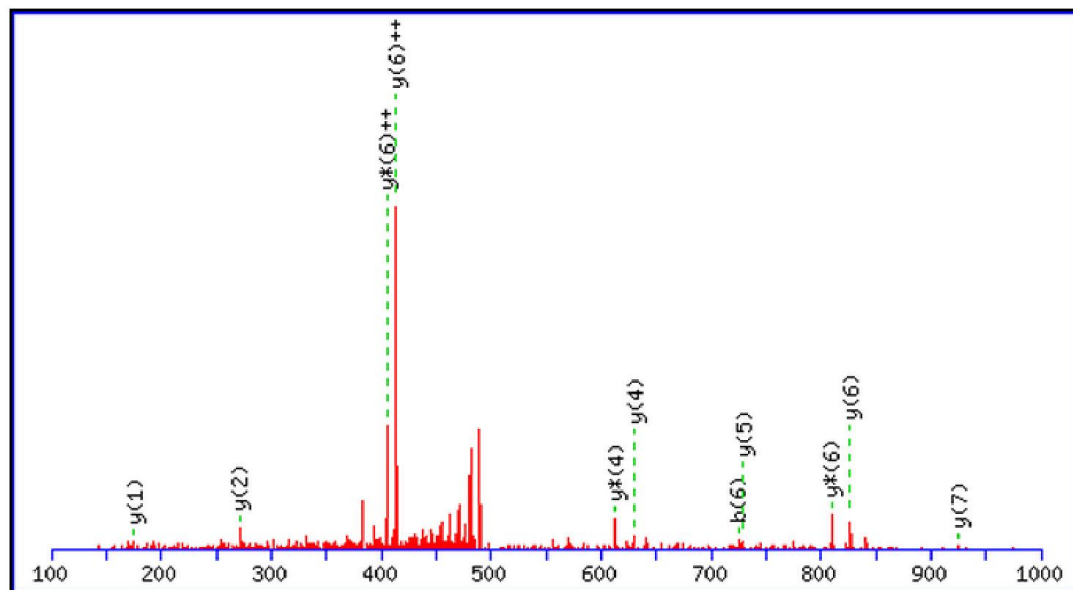
Found in **Q5QPL9**, RNA-binding protein Raly (Fragment) OS=Homo sapiens GN=RALY PE=2 SV=1

Match to Query 2907: 995.653608 from(498.834080,2+) intensity(53707.6211)

Title: File334 Spectrum4162 scans: 4987

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr12-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc):

Fixed modifications: Carbamidomethyl (C) (appl)

Variable modifications:

K5 : Propionyl-(13CD3)Methyl (K)

Ions Score: 40 Expect: 0.0079

Matches : 11/48 fragment ions using 17 most in

#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	72.0444	36.5258			A					8
2	171.1128	86.0600			V	925.6214	463.3144	908.5949	454.8011	7
3	268.1656	134.5864			P	826.5530	413.7801	809.5265	405.2669	6
4	367.2340	184.1206			V	729.5003	365.2538	712.4737	356.7405	5
5	569.3930	285.2001	552.3664	276.6869	K	630.4318	315.7196	613.4053	307.2063	4
6	725.4941	363.2507	708.4676	354.7374	R	428.2728	214.6401	411.2463	206.1268	3
7	822.5469	411.7771	805.5203	403.2638	P	272.1717	136.5895	255.1452	128.0762	2
8					R	175.1190	88.0631	158.0924	79.5498	1

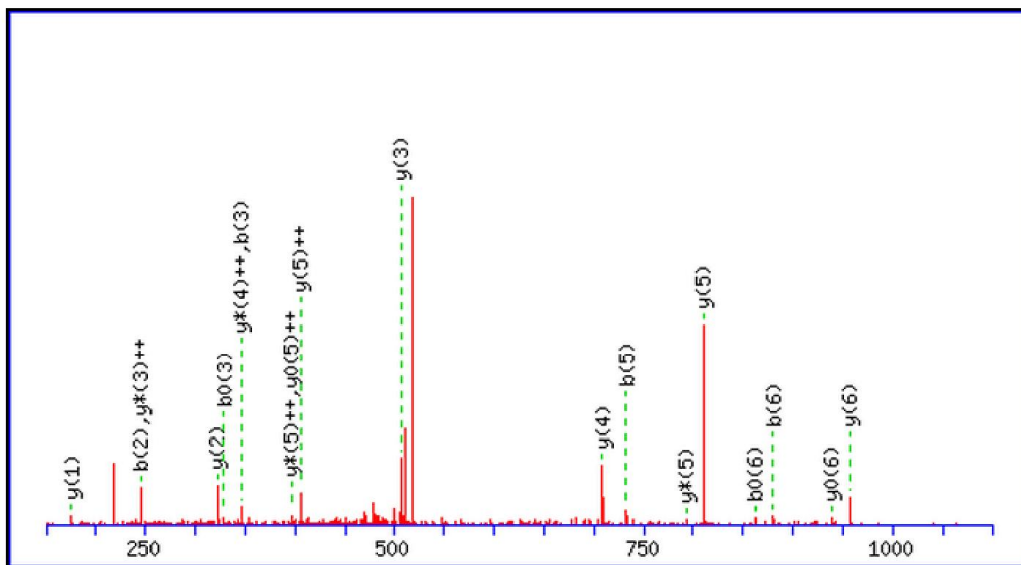
Found in **M0QXA7**, Protein Wiz OS=Homo sapiens GN=WIZ PE=4 SV=1

Match to Query 3620: 1052.628028 from(527.321290,2+) intensity(202455.3750)

Title: File334 Spectrum13253 scans: 14717

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr12-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1052.6291

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

Variable modifications:

K4 : Propionyl-(13CD3)Methyl (K)

K5 : Propionyl (K)

Ions Score: 42 Expect: 0.0

Matches : 19/54 fragment id

#	b	b ⁺⁺	b [*]	b ^{***}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	98.0600	49.5337					P							7
2	245.1285	123.0679					F	956.5837	478.7955	939.5571	470.2822	938.5731	469.7902	6
3	346.1761	173.5917			328.1656	164.5864	T	809.5152	405.2613	792.4887	396.7480	791.5047	396.2560	5
4	548.3351	274.6712	531.3086	266.1579	530.3246	265.6659	K	708.4676	354.7374	691.4410	346.2241			4
5	732.4563	366.7318	715.4298	358.2185	714.4458	357.7265	K	506.3085	253.6579	489.2820	245.1446			3
6	879.5247	440.2660	862.4982	431.7527	861.5142	431.2607	F	322.1874	161.5973	305.1608	153.0840			2
7							R	175.1190	88.0631	158.0924	79.5498			1

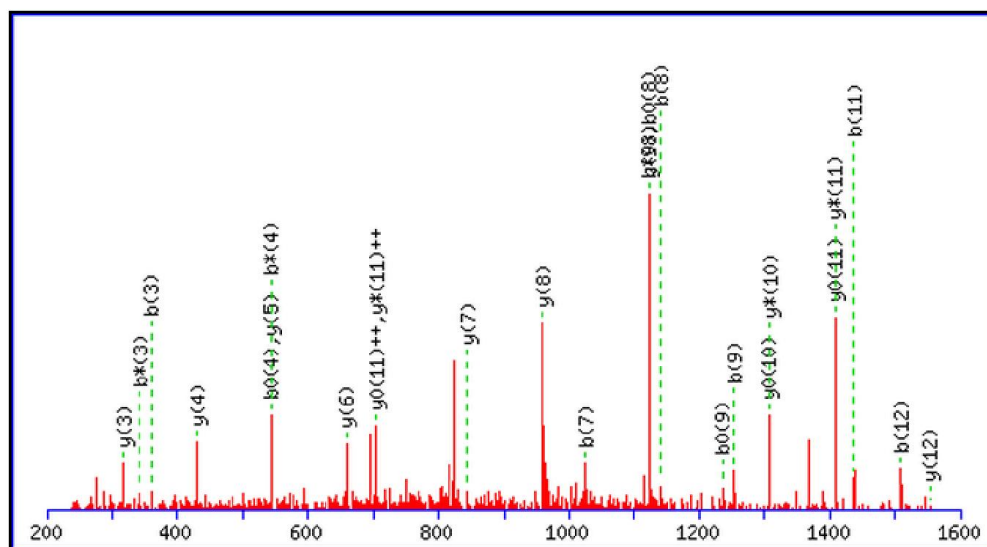
Found in **K7EJ74**, 116 kDa U5 small nuclear ribonucleoprotein component (Fragment) OS=Homo sapiens GN=EFTUD2 PE=4 SV=1

Match to Query 11999: 1681.849088 from(841.931820,2+) intensity(221610.8125)

Title: File334 Spectrum18414 scans: 20231

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr12-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1681.8584

Fixed modifications: Carbamidomethyl (C) (apply)

Variable modifications:

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 51 Expect: 0.0036

Matches : 26/132 fragment ions using 42 most in

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	E							13
2	258.1084	129.5579	241.0819	121.0446	240.0979	120.5526	Q	1553.8231	777.4152	1536.7966	768.9019	1535.8125	768.4099	12
3	359.1561	180.0817	342.1296	171.5684	341.1456	171.0764	T	1425.7645	713.3859	1408.7380	704.8726	1407.7540	704.3806	11
4	561.3151	281.1612	544.2886	272.6479	543.3046	272.1559	K	1324.7168	662.8621	1307.6903	654.3488	1306.7063	653.8568	10
5	724.3785	362.6929	707.3519	354.1796	706.3679	353.6876	Y	1122.5578	561.7826	1105.5313	553.2693	1104.5473	552.7773	9
6	839.4054	420.2063	822.3789	411.6931	821.3948	411.2011	D	959.4945	480.2509	942.4680	471.7376	941.4839	471.2456	8
7	1025.4847	513.2460	1008.4582	504.7327	1007.4742	504.2407	W	844.4676	422.7374	827.4410	414.2241	826.4570	413.7321	7
8	1140.5117	570.7595	1123.4851	562.2462	1122.5011	561.7542	D	658.3883	329.6978	641.3617	321.1845	640.3777	320.6925	6
9	1253.5957	627.3015	1236.5692	618.7882	1235.5852	618.2962	L	543.3613	272.1843	526.3348	263.6710			5
10	1366.6798	683.8435	1349.6532	675.3303	1348.6692	674.8383	L	430.2772	215.6423	413.2507	207.1290			4
11	1437.7169	719.3621	1420.6904	710.8488	1419.7063	710.3568	A	317.1932	159.1002	300.1666	150.5870			3
12	1508.7540	754.8806	1491.7275	746.3674	1490.7435	745.8754	A	246.1561	123.5817	229.1295	115.0684			2
13							R	175.1190	88.0631	158.0924	79.5498			1

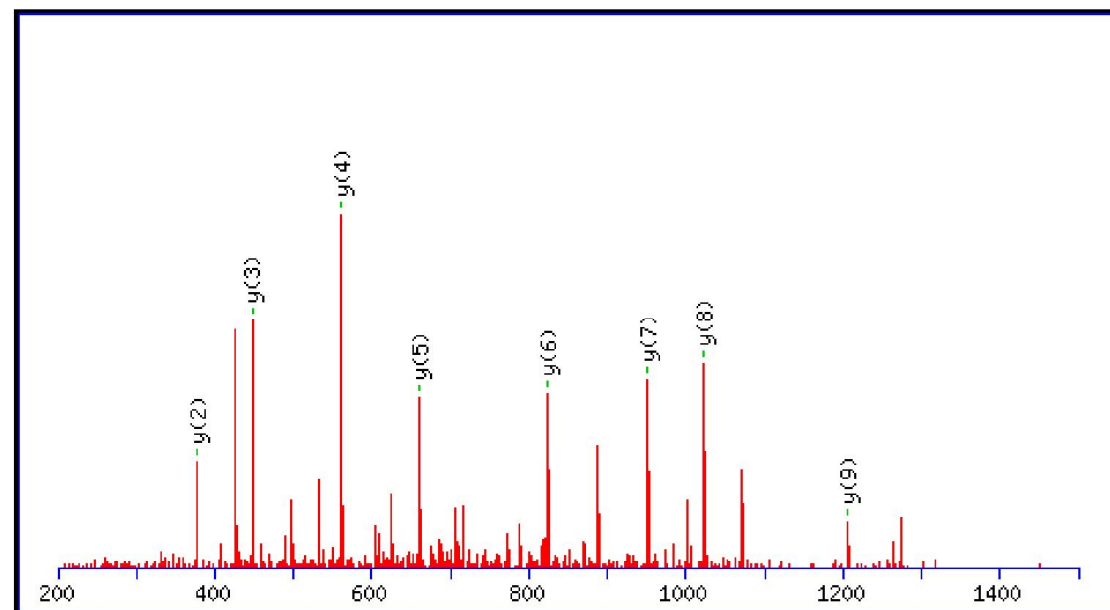
Found in **H3BNWO**, THUMP domain-containing protein 1 OS=Homo sapiens GN=THUMP1 PE=2 SV=1

Match to Query 7748: 1446.883888 from(724.449220, 2+) intensity(452856.6563)

Title: File371 Spectrum9510 scans: 11544

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fri-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1446.8831**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or**Variable modifications:****K1** : Propionyl (K)**K3** : Propionyl (K)**K10** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 67 **Expect:** 4e-005**Matches** : 8/80 fragment ions using 12 most intense peaks (hel'n)

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546	K					11
2	242.1499	121.5786	225.1234	113.0653	G	1263.7692	632.3882	1246.7427	623.8750	10
3	426.2711	213.6392	409.2445	205.1259	K	1206.7478	603.8775	1189.7212	595.3642	9
4	497.3082	249.1577	480.2817	240.6445	A	1022.6266	511.8169	1005.6000	503.3037	8
5	625.3668	313.1870	608.3402	304.6738	Q	951.5895	476.2984	934.5629	467.7851	7
6	788.4301	394.7187	771.4036	386.2054	Y	823.5309	412.2691	806.5043	403.7558	6
7	887.4985	444.2529	870.4720	435.7396	V	660.4676	330.7374	643.4410	322.2241	5
8	1000.5826	500.7949	983.5560	492.2817	L	561.3991	281.2032	544.3726	272.6899	4
9	1071.6197	536.3135	1054.5932	527.8002	A	448.3151	224.6612	431.2885	216.1479	3
10	1273.7787	637.3930	1256.7522	628.8797	K	377.2780	189.1426	360.2514	180.6293	2
11					R	175.1190	88.0631	158.0924	79.5498	1

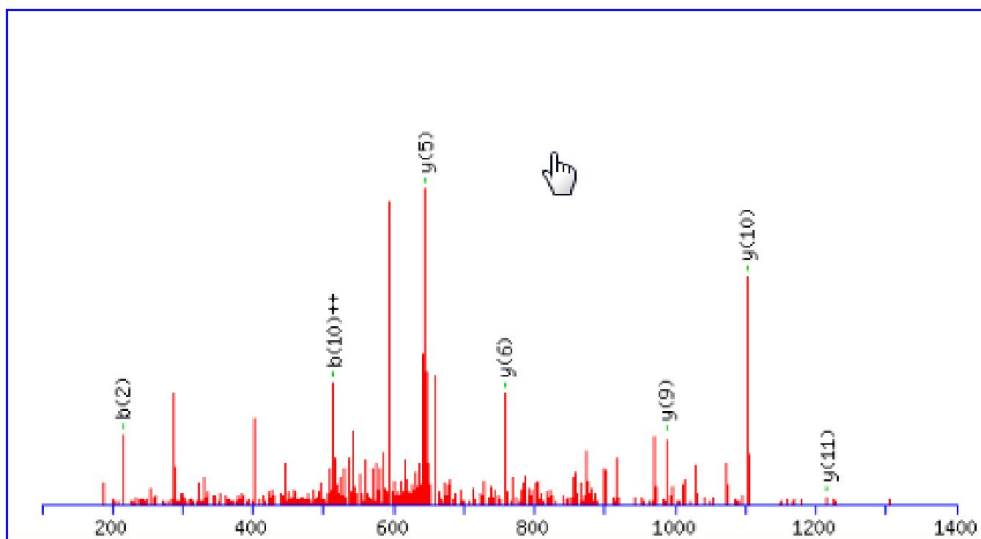
Found in **Q96QE3**, ATPase family AAA domain-containing protein 5 OS=Homo sapiens GN=ATAD5 PE=1 SV=4

Match to Query 6217: 1316.743868 from(659.379210,2+) intensity(37110.5195)

Title: File371 Spectrum13424 scans: 16061

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZWk562\2013-5-15-562-Kpropio-methyl-IP-Fr1-ZW.mgf

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

Or, 100 to 1400 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1315.7368

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

Variable modifications:

K10 : Propionyl-(13CD3)Methyl (K)

Ions Score: 22 Expect: 2.7

Matches : 7/98 fragment ions using 12 most intense peaks

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T							12
2	215.1390	108.0731			197.1285	99.0679	L	1215.6964	608.3519	1198.6699	599.8386	1197.6859	599.3466	11
3	330.1660	165.5866			312.1554	156.5813	D	1102.6124	551.8098	1085.5858	543.2966	1084.6018	542.8045	10
4	431.2136	216.1105			413.2031	207.1052	T	987.5854	494.2964	970.5589	485.7831	969.5749	485.2911	9
5	488.2351	244.6212			470.2245	235.6159	G	886.5378	443.7725	869.5112	435.2592			8
6	559.2722	280.1397			541.2617	271.1345	A	829.5163	415.2618	812.4897	406.7485			7
7	672.3563	336.6818			654.3457	327.6765	I	758.4792	379.7432	741.4526	371.2300			6
8	769.4090	385.2082			751.3985	376.2029	P	645.3951	323.2012	628.3686	314.6879			5
9	826.4305	413.7189			808.4199	404.7136	G	548.3424	274.6748	531.3158	266.1615			4
10	1028.5895	514.7984	1011.5630	506.2851	1010.5790	505.7931	K	491.3209	246.1641	474.2943	237.6508			3
11	1142.6325	571.8199	1125.6059	563.3066	1124.6219	562.8146	N	289.1619	145.0846	272.1353	136.5713			2
12							R	175.1190	88.0631	158.0924	79.5498			1

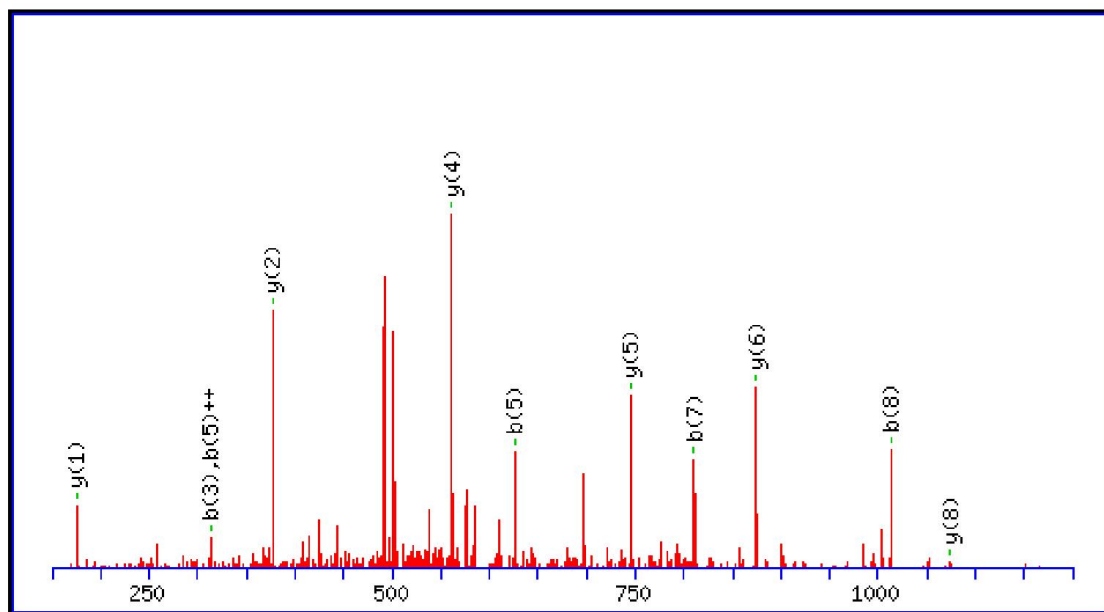
Found in **Q92797**, Symplekin OS=Homo sapiens GN=SYMPK PE=1 SV=2

Match to Query 3998: 1185.735928 from(593.875240, 2+) intensity(417987.9063)

Title: File305 Spectrum7285 scans: 8952

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1185.7354**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K5** : Propionyl (K)**K8** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 60 **Expect:** 0.00018**Matches** : 11/76 fragment ions using 10 most intens

#	b	b ⁺⁺	b ⁺	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							9
2	185.1285	93.0679					A	1073.6586	537.3329	1056.6321	528.8197	1055.6480	528.3277	8
3	313.1870	157.0972	296.1605	148.5839			Q	1002.6215	501.8144	985.5949	493.3011	984.6109	492.8091	7
4	442.2296	221.6185	425.2031	213.1052	424.2191	212.6132	E	874.5629	437.7851	857.5364	429.2718	856.5523	428.7798	6
5	626.3508	313.6790	609.3243	305.1658	608.3402	304.6738	K	745.5203	373.2638	728.4938	364.7505			5
6	697.3879	349.1976	680.3614	340.6843	679.3774	340.1923	A	561.3991	281.2032	544.3726	272.6899			4
7	810.4720	405.7396	793.4454	397.2264	792.4614	396.7343	L	490.3620	245.6847	473.3355	237.1714			3
8	1012.6310	506.8191	995.6044	498.3059	994.6204	497.8139	K	377.2780	189.1426	360.2514	180.6293			2
9							R	175.1190	88.0631	158.0924	79.5498			1

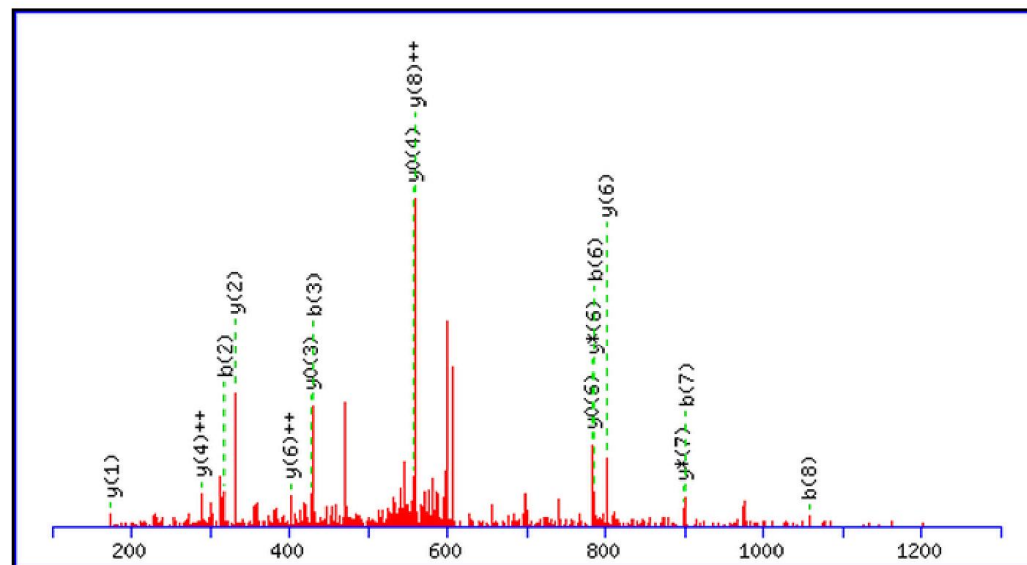
Found in **P17066**, Heat shock 70 kDa protein 6 OS=Homo sapiens GN=HSPA6 PE=1 SV=2

Match to Query 4381: 1230.647188 from(616.330870,2+) intensity(56340.2852)

Title: File305 Spectrum3589 scans: 4953

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1230.6477

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (F)

Ions Score: 21 Expect: 3.2

Matches : 16/90 fragment ions using

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	116.0342	58.5207			98.0237	49.5155	D							9
2	318.1932	159.6003	301.1667	151.0870	300.1827	150.5950	K	1116.6280	558.8177	1099.6015	550.3044	1098.6175	549.8124	8
3	431.2773	216.1423	414.2507	207.6290	413.2667	207.1370	I	914.4690	457.7381	897.4425	449.2249	896.4585	448.7329	7
4	528.3301	264.6687	511.3035	256.1554	510.3195	255.6634	P	801.3850	401.1961	784.3584	392.6828	783.3744	392.1908	6
5	657.3727	329.1900	640.3461	320.6767	639.3621	320.1847	E	704.3322	352.6697	687.3056	344.1565	686.3216	343.6645	5
6	786.4152	393.7113	769.3887	385.1980	768.4047	384.7060	E	575.2896	288.1484	558.2630	279.6352	557.2790	279.1432	4
7	901.4422	451.2247	884.4156	442.7115	883.4316	442.2195	D	446.2470	223.6271	429.2205	215.1139	428.2364	214.6219	3
8	1057.5433	529.2753	1040.5168	520.7620	1039.5327	520.2700	R	331.2201	166.1137	314.1935	157.6004			2
9							R	175.1190	88.0631	158.0924	79.5498			1

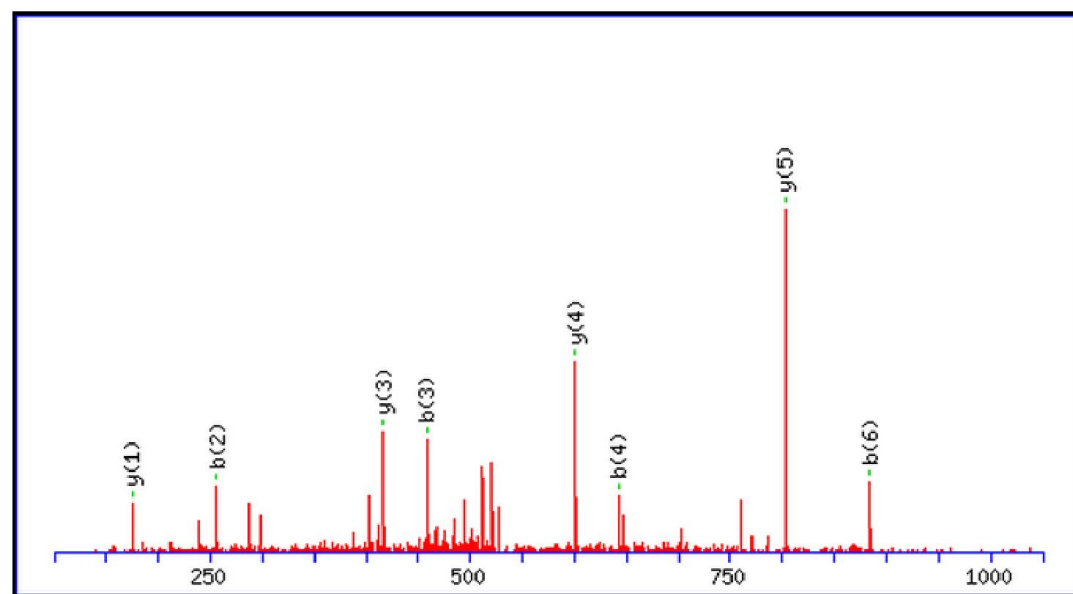
Found in **B4DY99**, Coiled-coil domain-containing protein 86 OS=Homo sapiens GN=CCDC86 PE=2 SV=1

Match to Query 2652: 1056.689548 from(529.352050,2+) intensity(65551.0859)

Title: File305 Spectrum6197 scans: 7791

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1056.6928

Fixed modifications: Carbamidomethyl (C) (apply

Variable modifications:

K2 : Propionyl (K)

K3 : Propionyl-(13CD3)Methyl (K)

K4 : Propionyl (K)

Ions Score: 35 Expect: 0.025

Matches : 8/46 fragment ions using 9 most intens

#	b	b ⁺⁺	b [*]	b ^{***}	Seq.	y	y ⁺⁺	y [*]	y ^{***}	#
1	72.0444	36.5258			A					7
2	256.1656	128.5864	239.1390	120.0731	K	986.6630	493.8351	969.6364	485.3218	6
3	458.3246	229.6659	441.2980	221.1527	K	802.5418	401.7745	785.5152	393.2613	5
4	642.4458	321.7265	625.4192	313.2132	K	600.3828	300.6950	583.3562	292.1817	4
5	770.5043	385.7558	753.4778	377.2425	Q	416.2616	208.6344	399.2350	200.1212	3
6	883.5884	442.2978	866.5619	433.7846	L	288.2030	144.6051	271.1765	136.0919	2
7					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 19077: 2715.470922 from(906.164250,3+) intensity(55584.5977)

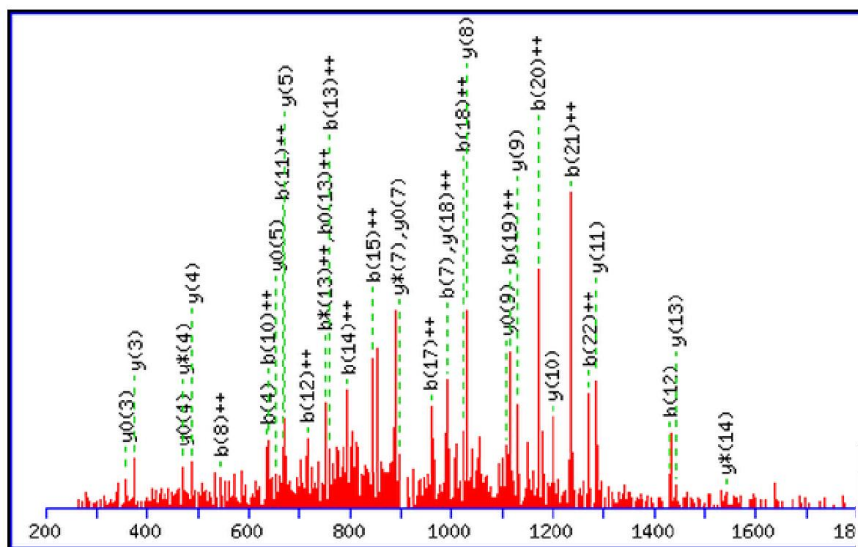
Title: File305 Spectrum14427 scans: 16570

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr11-ZW.mgf

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

Or, Plot from to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2715.4715
 Fixed modifications: Carbamidomethyl (C) (apply to specific...)
 Variable modifications:
 K1 : Propionyl (K)
 K4 : Propionyl-(13CD3)Methyl (K)
 K19 : Propionyl (K)
 Ions Score: 45 Expect: 0.021
 Matches : 36/250 fragment ions using 85 most intense peaks

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							23
2	322.1874	161.5973	305.1608	153.0840			H	2532.3577	1266.6825	2515.3311	1258.1692	2514.3471	1257.6772	21
3	435.2714	218.1394	418.2449	209.6261			L	2395.2988	1198.1530	2378.2722	1189.6397	2377.2882	1189.1477	22
4	637.4304	319.2189	620.4039	310.7056			K	2282.2147	1141.6110	2265.1882	1133.0977	2264.2041	1132.6057	20
5	734.4832	367.7452	717.4567	359.2320			P	2080.0557	1040.5315	2063.0291	1032.0182	2062.0451	1031.5262	19
6	863.5258	432.2665	846.4993	423.7533	845.5152	423.2613	E	1983.0029	992.0051	1965.9764	983.4918	1964.9924	982.9998	18
7	991.5844	496.2958	974.5578	487.7826	973.5738	487.2905	Q	1853.9603	927.4838	1836.9338	918.9705	1835.9498	918.4785	17
8	1088.6371	544.8222	1071.6106	536.3089	1070.6266	535.8169	P	1725.9018	863.4545	1708.8752	854.9412	1707.8912	854.4492	16
9	1159.6743	580.3408	1142.6477	571.8275	1141.6637	571.3355	A	1628.8490	814.9281	1611.8224	806.4149	1610.8384	805.9229	15
10	1274.7012	637.8542	1257.6747	629.3410	1256.6906	628.8490	D	1557.8119	779.4096	1540.7853	770.8963	1539.8013	770.4043	14
11	1331.7227	666.3650	1314.6961	657.8517	1313.7121	657.3597	G	1442.7849	721.8961	1425.7584	713.3828	1424.7744	712.8908	13
12	1430.7911	715.8992	1413.7645	707.3859	1412.7805	706.8939	V	1385.7635	693.3854	1368.7369	684.8721	1367.7529	684.3801	12
13	1517.8231	759.4152	1500.7966	750.9019	1499.8125	750.4099	S	1286.6951	643.8512	1269.6685	635.3379	1268.6845	634.8459	11
14	1588.8602	794.9337	1571.8337	786.4205	1570.8497	785.9285	A	1199.6630	600.3352	1182.6365	591.8219	1181.6525	591.3299	10
15	1687.9286	844.4680	1670.9021	835.9547	1669.9181	835.4627	V	1128.6259	564.8166	1111.5994	556.3033	1110.6154	555.8113	9
16	1802.9556	901.9814	1785.9290	893.4682	1784.9450	892.9761	D	1029.5575	515.2824	1012.5310	506.7691	1011.5469	506.2771	8
17	1916.0396	958.5235	1899.0131	950.0102	1898.0291	949.5182	L	914.5306	457.7689	897.5040	449.2556	896.5200	448.7636	7
18	2045.0822	1023.0448	2028.0557	1014.5315	2027.0717	1014.0395	E	801.4465	401.2269	784.4199	392.7136	783.4359	392.2216	6
19	2229.2034	1115.1053	2212.1769	1106.5921	2211.1928	1106.1001	K	672.4039	336.7056	655.3774	328.1923	654.3933	327.7003	5
20	2342.2875	1171.6474	2325.2609	1163.1341	2324.2769	1162.6421	L	488.2827	244.6450	471.2562	236.1317	470.2722	235.6397	4
21	2471.3301	1236.1687	2454.3035	1227.6554	2453.3195	1227.1634	E	375.1987	188.1030	358.1721	179.5897	357.1881	179.0977	3
22	2542.3672	1271.6872	2525.3406	1263.1740	2524.3566	1262.6819	A	246.1561	123.5817	229.1295	115.0684			2
23							R	175.1190	88.0631	158.0924	79.5498			1

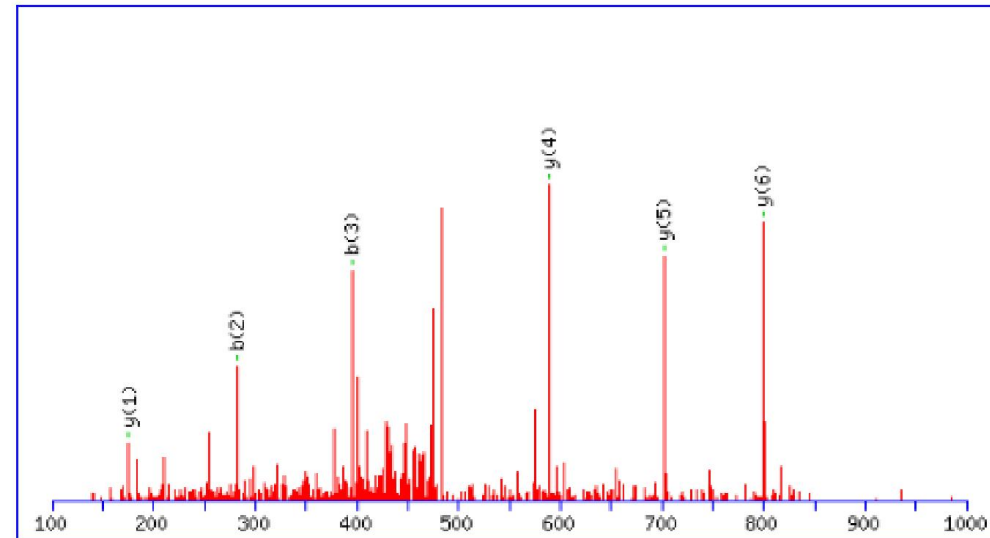
MS/MS Fragmentation of **KPIVLKR**Found in **H0YCL8**, Sororin (Fragment) OS=Homo sapiens GN=CDCA5 PE=4 SV=1

Match to Query 2119: 982.680268 from(492.347410,2+) intensity(35293.9766)

Title: File371 Spectrum7986 scans: 9918

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-15-562-Kpropio-methyl-IP-Fr1-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 982.6812

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

Variable modifications:

K1 : Propionyl (K)

K6 : Propionyl-(13CD3)Methyl (K)

Ions Score: 33 Expect: 0.012

Matches : 6/48 fragment ions using 8 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546	K					7
2	282.1812	141.5942	265.1547	133.0810	P	799.5673	400.2873	782.5407	391.7740	6
3	395.2653	198.1363	378.2387	189.6230	I	702.5145	351.7609	685.4880	343.2476	5
4	494.3337	247.6705	477.3071	239.1572	V	589.4304	295.2189	572.4039	286.7056	4
5	607.4178	304.2125	590.3912	295.6992	L	490.3620	245.6847	473.3355	237.1714	3
6	809.5768	405.2920	792.5502	396.7788	K	377.2780	189.1426	360.2514	180.6293	2
7					R	175.1190	88.0631	158.0924	79.5498	1

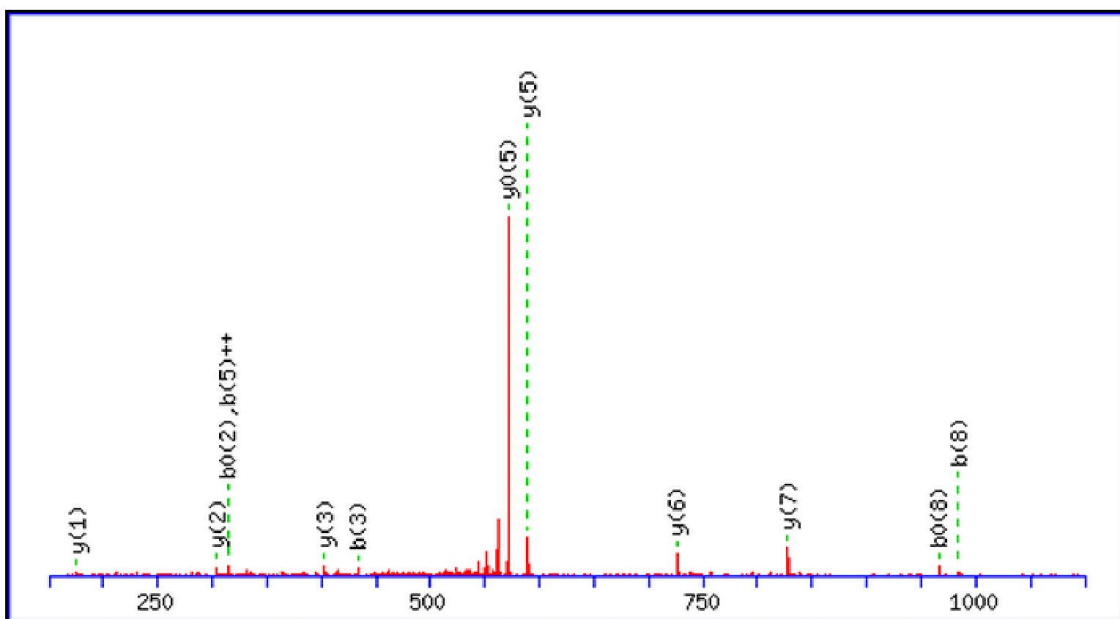
Found in **P55072**, Transitional endoplasmic reticulum ATPase OS=Homo sapiens GN=VCP PE=1 SV=4

Match to Query 5009: 1157.594948 from(579.804750,2+) intensity(399530.6250)

Title: File332 Spectrum2158 scans: 2842

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZWk562\2013-5-23-K562-Kpropio-methyl-IP-Fr10-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide

Fixed modifications: Carbamidomethyl

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

Ions Score: 42 Expect: 0.019

Matches : 12/92 fragment ions using 2

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	E							9
2	332.2089	166.6081	315.1823	158.0948	314.1983	157.6028	K	1029.5596	515.2834	1012.5331	506.7702	1011.5491	506.2782	8
3	433.2566	217.1319	416.2300	208.6186	415.2460	208.1266	T	827.4006	414.2039	810.3741	405.6907	809.3900	405.1987	7
4	570.3155	285.6614	553.2889	277.1481	552.3049	276.6561	H	726.3529	363.6801	709.3264	355.1668	708.3424	354.6748	6
5	627.3369	314.1721	610.3104	305.6588	609.3264	305.1668	G	589.2940	295.1506	572.2675	286.6374	571.2835	286.1454	5
6	756.3795	378.6934	739.3530	370.1801	738.3690	369.6881	E	532.2726	266.6399	515.2460	258.1266	514.2620	257.6346	4
7	855.4479	428.2276	838.4214	419.7143	837.4374	419.2223	V	403.2300	202.1186	386.2034	193.6053	385.2194	193.1133	3
8	984.4905	492.7489	967.4640	484.2356	966.4800	483.7436	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
9							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **KEKDTPNENR**

Found in **Q15022**, Polycomb protein SUZ12 OS=Homo sapiens GN=SUZ12 PE=1 SV=3

Match to Query 7274: 1359.691268 from(680.852910,2+) intensity(121536.6484)

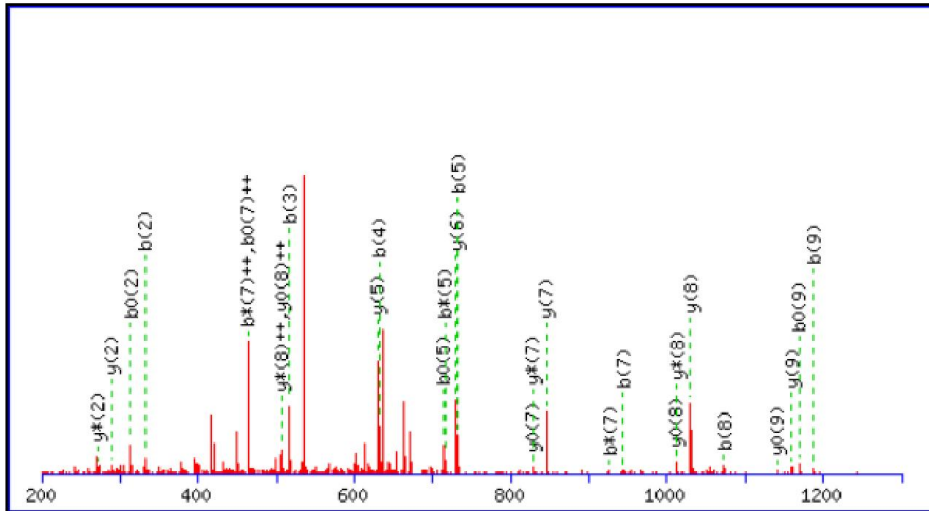
Title: File334 Spectrum4187 scans: 5014

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr12-ZW.mgf

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

Or, 200 to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1359.6903

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

K3 : Propionyl (K)

Ions Score: 35 Expect: 0.12

Matches : 28/102 fragment ions using 51 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							10
2	332.2089	166.6081	315.1823	158.0948	314.1983	157.6028	E	1158.5386	579.7729	1141.5120	571.2596	1140.5280	570.7676	9
3	516.3301	258.6687	499.3035	250.1554	498.3195	249.6634	K	1029.4960	515.2516	1012.4694	506.7383	1011.4854	506.2463	8
4	631.3570	316.1821	614.3305	307.6689	613.3464	307.1769	D	845.3748	423.1910	828.3482	414.6778	827.3642	414.1857	7
5	732.4047	366.7060	715.3781	358.1927	714.3941	357.7007	T	730.3478	365.6776	713.3213	357.1643	712.3373	356.6723	6
6	829.4574	415.2324	812.4309	406.7191	811.4469	406.2271	P	629.3002	315.1537	612.2736	306.6404	611.2896	306.1484	5
7	943.5004	472.2538	926.4738	463.7406	925.4898	463.2485	N	532.2474	266.6273	515.2209	258.1141	514.2368	257.6221	4
8	1072.5430	536.7751	1055.5164	528.2618	1054.5324	527.7698	E	418.2045	209.6059	401.1779	201.0926	400.1939	200.6006	3
9	1186.5859	593.7966	1169.5593	585.2833	1168.5753	584.7913	N	289.1619	145.0846	272.1353	136.5713			2
10							R	175.1190	88.0631	158.0924	79.5498			1

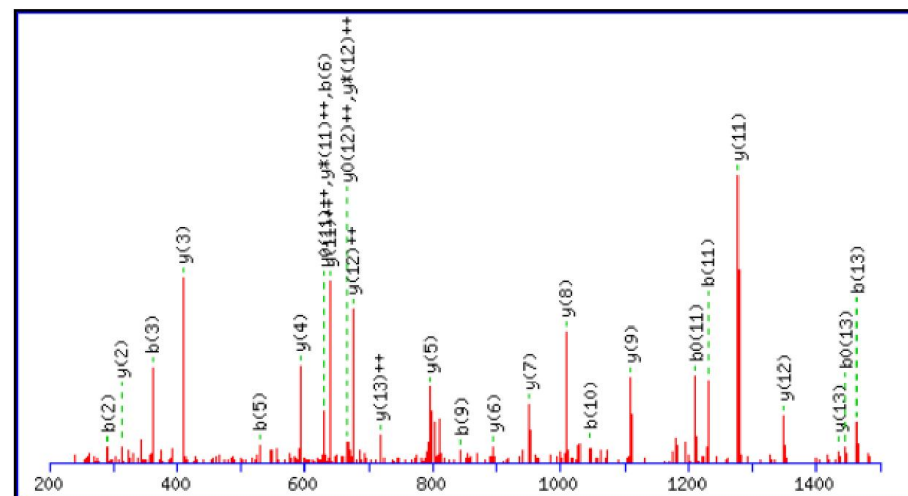
Found in **Q71DI3**, Histone H3.2 OS=Homo sapiens GN=HIST2H3A PE=1 SV=3

Match to Query 11298: 1636.979948 from(819.497250,2+) intensity(857586.5000)

Title: File334 Spectrum8017 scans: 9132

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr12-ZW.mgf

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

Or, 200 1500 Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1636.9806

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

K10 : Propionyl-(13CD3)Methyl (K)

K11 : Propionyl (K)

Ions Score: 86 Expect: 5.2e-007

Matches : 28/138 fragment ions using 39 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							14
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	S	1435.8289	718.4181	1418.8023	709.9048	1417.8183	709.4128	13
3	361.2354	181.1214	344.2089	172.6081	343.2249	172.1161	A	1348.7968	674.9021	1331.7703	666.3888	1330.7863	665.8968	12
4	458.2882	229.6477	441.2616	221.1345	440.2776	220.6425	P	1277.7597	639.3835	1260.7332	630.8702	1259.7492	630.3782	11
5	529.3253	265.1663	512.2988	256.6530	511.3147	256.1610	A	1180.7070	590.8571	1163.6804	582.3438	1162.6964	581.8518	10
6	630.3730	315.6901	613.3464	307.1769	612.3624	306.6848	T	1109.6698	555.3386	1092.6433	546.8253	1091.6593	546.3333	9
7	687.3945	344.2009	670.3679	335.6876	669.3839	335.1956	G	1008.6222	504.8147	991.5956	496.3014			8
8	744.4159	372.7116	727.3894	364.1983	726.4054	363.7063	G	951.6007	476.3040	934.5741	467.7907			7
9	843.4843	422.2458	826.4578	413.7325	825.4738	413.2405	V	894.5792	447.7933	877.5527	439.2800			6
10	1045.6433	523.3253	1028.6168	514.8120	1027.6328	514.3200	K	795.5108	398.2590	778.4843	389.7458			5
11	1229.7645	615.3859	1212.7380	606.8726	1211.7540	606.3806	K	593.3518	297.1795	576.3253	288.6663			4
12	1326.8173	663.9123	1309.7907	655.3990	1308.8067	654.9070	P	409.2306	205.1190	392.2041	196.6057			3
13	1463.8762	732.4417	1446.8496	723.9285	1445.8656	723.4365	H	312.1779	156.5926	295.1513	148.0793			2
14							R	175.1190	88.0631	158.0924	79.5498			1

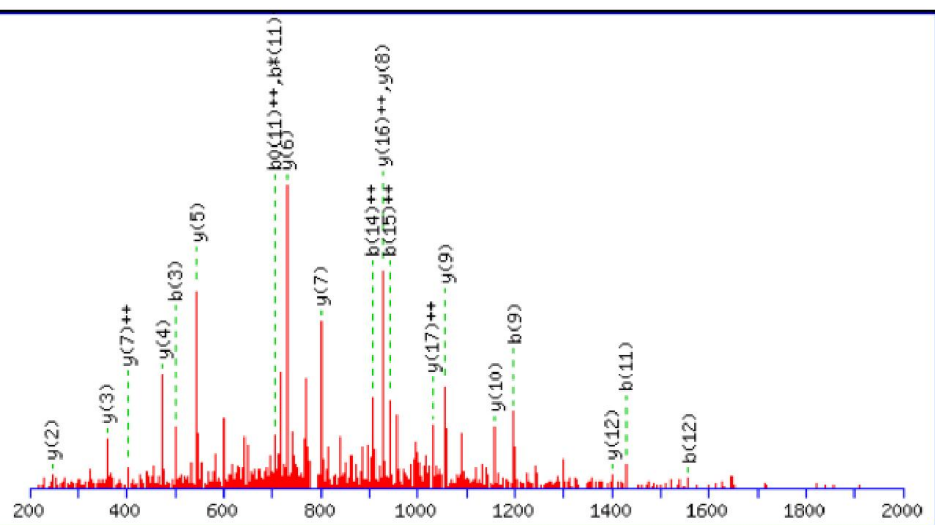
Found in **Q13442**, 28 kDa heat- and acid-stable phosphoprotein OS=Homo sapiens GN=PDAP1 PE=1 SV=1

Match to Query 16117: 2355.275712 from(786.099180,3+) intensity(42050.9766)

Title: File309 Spectrum14178 scans: 16007

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 2355.2744

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

Variable modifications:

K2 : Label:13C(1)2H(3) (M)
 K3 : Propionyl-(13CD3)Methyl (K)
 K4 : Label:13C(1)2H(3) (M)
 K9 : Propionyl (K)
 K14 : Propionyl (K)

Ions Score: 58 Expect: 0.0012

Matches : 21/188 fragment ions using 32 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	164.0706	82.5389					Y							19
2	299.1333	150.0703					M	2193.2184	1097.1128	2176.1919	1088.5996	2175.2078	1088.1076	18
3	501.2923	251.1498	484.2657	242.6365			K	2058.1557	1029.5815	2041.1292	1021.0682	2040.1452	1020.5762	17
4	636.3550	318.6811	619.3284	310.1678			M	1855.9967	928.5020	1838.9702	919.9887	1837.9862	919.4967	16
5	773.4139	387.2106	756.3873	378.6973			H	1720.9341	860.9707	1703.9075	852.4574	1702.9235	851.9654	15
6	886.4979	443.7526	869.4714	435.2393			L	1583.8751	792.4412	1566.8486	783.9279	1565.8646	783.4359	14
7	957.5350	479.2712	940.5085	470.7579			A	1470.7911	735.8992	1453.7645	727.3859	1452.7805	726.8939	13
8	1014.5565	507.7819	997.5300	499.2686			G	1399.7540	700.3806	1382.7274	691.8673	1381.7434	691.3753	12
9	1198.6777	599.8425	1181.6511	591.3292			K	1342.7325	671.8699	1325.7060	663.3566	1324.7219	662.8646	11
10	1299.7254	650.3663	1282.6988	641.8530	1281.7148	641.3610	T	1158.6113	579.8093	1141.5848	571.2960	1140.6008	570.8040	10
11	1428.7680	714.8876	1411.7414	706.3743	1410.7574	705.8823	E	1057.5637	529.2855	1040.5371	520.7722	1039.5531	520.2802	9
12	1556.8265	778.9169	1539.8000	770.4036	1538.8160	769.9116	Q	928.5211	464.7642	911.4945	456.2509	910.5105	455.7589	8
13	1627.8637	814.4355	1610.8371	805.9222	1609.8531	805.4302	A	800.4625	400.7349	783.4359	392.2216	782.4519	391.7296	7
14	1811.9848	906.4961	1794.9583	897.9828	1793.9743	897.4908	K	729.4254	365.2163	712.3988	356.7030	711.4148	356.2110	6
15	1883.0219	942.0146	1865.9954	933.5013	1865.0114	933.0093	A	545.3042	273.1557	528.2776	264.6425	527.2936	264.1504	5
16	1998.0489	999.5281	1981.0223	991.0148	1980.0383	990.5228	D	474.2671	237.6372	457.2405	229.1239	456.2565	228.6319	4
17	2111.1330	1056.0701	2094.1064	1047.5568	2093.1224	1047.0648	L	359.2401	180.1237	342.2136	171.6104			3
18	2182.1701	1091.5887	2165.1435	1083.0754	2164.1595	1082.5834	A	246.1561	123.5817	229.1295	115.0684			2
19							R	175.1190	88.0631	158.0924	79.5498			1

Found in **P52597**, Heterogeneous nuclear ribonucleoprotein F OS=Homo sapiens GN=HNRNPF PE=1 SV=3

Match to Query 7163: 1419.836888 from(710.925720,2+) intensity(76685.4297)

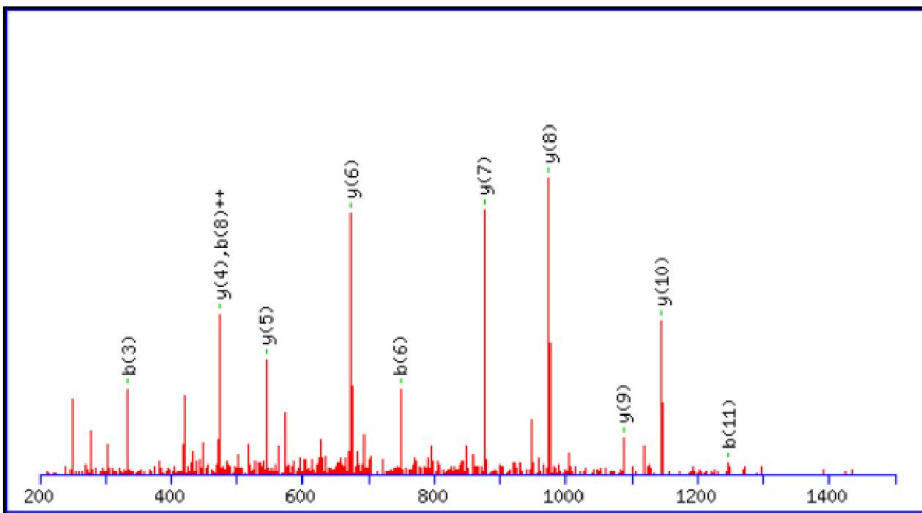
Title: File309 Spectrum12005 scans: 13689

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr6-ZW.mgf

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

Or, 200 to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calcd): 1419.8358

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

Variable modifications:

K6 : Propionyl-(13CD3)Methyl (K)

Ions Score: 61 Expect: 0.00024

Matches : 11/100 fragment ions using 12 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	164.0706	82.5389					Y							12
2	277.1547	139.0810					I	1257.7798	629.3935	1240.7532	620.8803	1239.7692	620.3882	11
3	334.1761	167.5917					G	3144.6957	572.8515	1127.6692	564.3382	1126.6852	563.8462	10
4	447.2602	224.1337					I	1087.6743	544.3408	1070.6477	535.8275	1069.6637	535.3355	9
5	546.3286	273.6679					V	974.5902	487.7987	957.5636	479.2855	956.5796	478.7935	8
6	748.4876	374.7475	731.4611	366.2342			K	875.5218	438.2645	858.4952	429.7513	857.5112	429.2592	7
7	876.5462	438.7767	859.5197	430.2635			Q	673.3628	337.1850	656.3362	328.6717	655.3522	328.1797	6
8	947.5833	474.2953	930.5568	465.7820			A	545.3042	273.1557	528.2776	264.6425	527.2936	264.1504	5
9	1004.6048	502.8060	987.5782	494.2928			G	474.2671	237.6372	457.2405	229.1239	456.2565	228.6319	4
10	1117.6888	559.3481	1100.6623	550.8348			L	417.2456	209.1264	400.2191	200.6132	399.2350	200.1212	3
11	1246.7314	623.8694	1229.7049	615.3561	1228.7209	614.8641	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
12							R	175.1190	88.0631	158.0924	79.5498			1

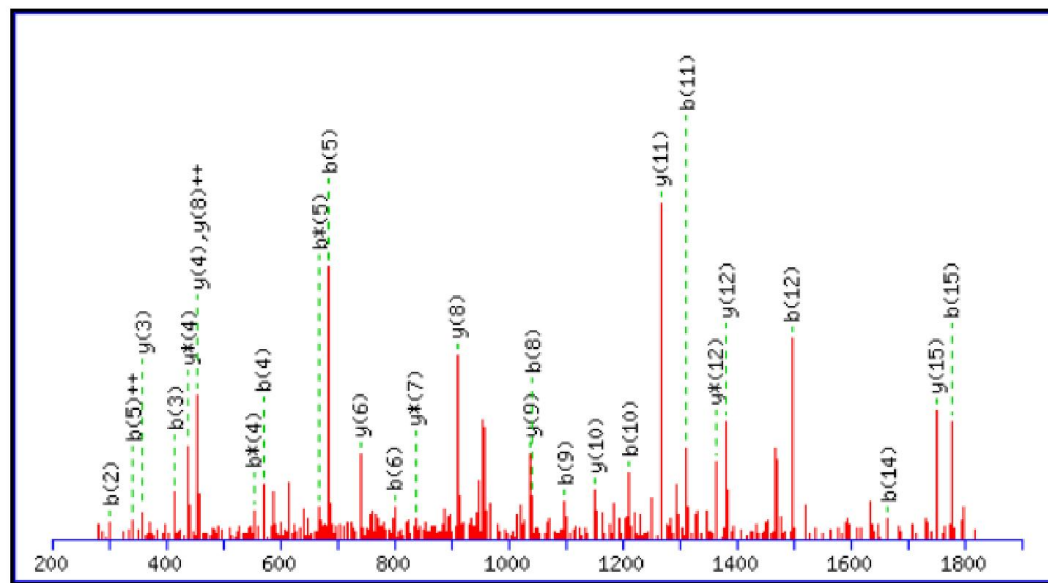
Found in **P62805**, Histone H4 OS=Homo sapiens GN=HIST1H4A PE=1 SV=2

Match to Query 13677: 1951.186748 from(976.600650,2+) intensity(222395.4688)

Title: File309 Spectrum11582 scans: 13238

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1951.1851

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

K12 : Propionyl (K)

Ions Score: 80 Expect: 1.1e-006

Matches : 28/162 fragment ions using 48 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5718			K							16
2	302.2347	151.6210	285.2082	143.1077			V	1750.0334	875.5203	1733.0068	867.0071	1732.0228	866.5150	15
3	415.3188	208.1630	398.2922	199.6497			L	1650.9650	825.9861	1633.9384	817.4728	1632.9544	816.9808	14
4	571.4199	286.2136	554.3933	277.7003			R	1537.8809	769.4441	1520.8544	760.9308	1519.8703	760.4388	13
5	686.4468	343.7270	669.4203	335.2138	668.4363	334.7218	D	1381.7798	691.3935	1364.7532	682.8803	1363.7692	682.3883	12
6	800.4897	400.7485	783.4632	392.2352	782.4792	391.7432	N	1266.7528	633.8801	1249.7263	625.3668	1248.7423	624.8748	11
7	913.5738	457.2905	896.5473	448.7773	895.5632	448.2853	I	1152.7099	576.8586	1135.6834	568.3453	1134.6994	567.8533	10
8	1041.6324	521.3198	1024.6058	512.8066	1023.6218	512.3146	Q	1039.6259	520.3166	1022.5993	511.8033	1021.6153	511.3113	9
9	1098.6539	549.8306	1081.6273	541.3173	1080.6433	540.8253	G	911.5673	456.2873	894.5407	447.7740	893.5567	447.2820	8
10	1211.7379	606.3726	1194.7114	597.8593	1193.7274	597.3673	I	854.5458	427.7765	837.5193	419.2633	836.5352	418.7713	7
11	1312.7856	656.8964	1295.7590	648.3832	1294.7750	647.8912	T	741.4618	371.2345	724.4352	362.7212	723.4512	362.2292	6
12	1496.9068	748.9570	1479.8802	740.4438	1478.8962	739.9517	K	640.4141	320.7107	623.3875	312.1974			5
13	1593.9595	797.4834	1576.9330	788.9701	1575.9490	788.4781	P	456.2929	228.6501	439.2663	220.1368			4
14	1664.9967	833.0020	1647.9701	824.4887	1646.9861	823.9967	A	359.2401	180.1237	342.2136	171.6104			3
15	1778.0807	889.5440	1761.0542	881.0307	1760.0702	880.5387	I	288.2030	144.6051	271.1765	136.0919			2
16							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **LKANKDSLYKPILR**

Found in **Q14692**, Ribosome biogenesis protein BMS1 homolog OS=Homo sapiens GN=BMS1 PE=1 SV=1

Match to Query 14025: 1844.104348 from(923.059450,2+) intensity(154355.6250)

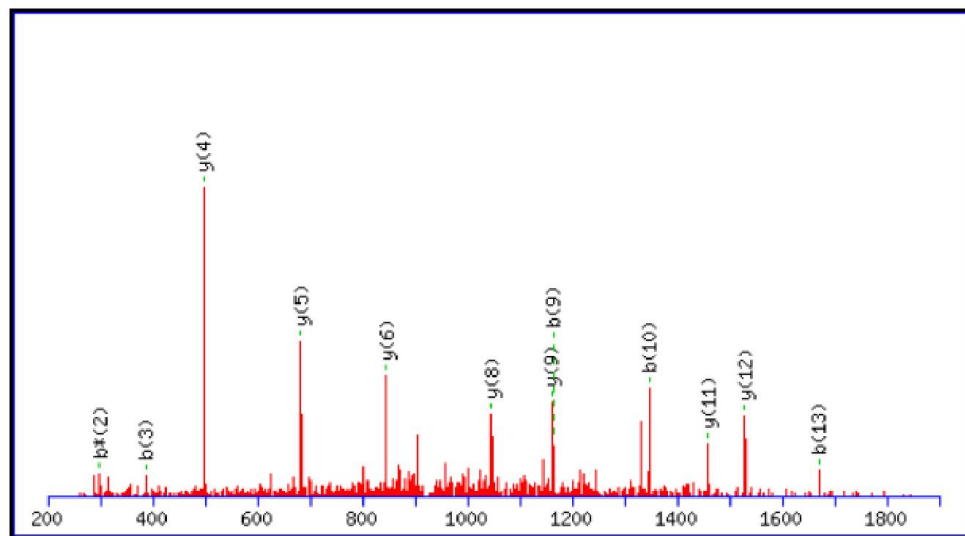
Title: File312 Spectrum16529 scans: 18598

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1844.1044

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K5 : Propionyl (K)

K10 : Propionyl (K)

Ions Score: 53 Expect: 0.00099

Matches : 12/130 fragment ions using 16 most intense peaks ([help](#))

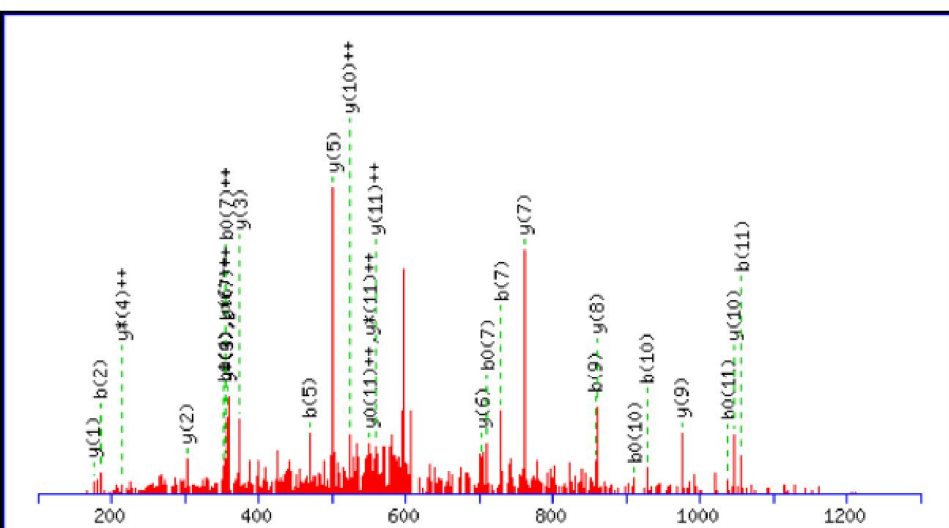
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							14
2	316.2504	158.6288	299.2238	150.1155			K	1732.0276	866.5174	1715.0011	858.0042	1714.0171	857.5122	13
3	387.2875	194.1474	370.2609	185.6341			A	1529.8686	765.4379	1512.8421	756.9247	1511.8580	756.4327	12
4	501.3304	251.1688	484.3038	242.6556			N	1458.8315	729.9194	1441.8049	721.4061	1440.8209	720.9141	11
5	685.4516	343.2294	668.4250	334.7161			K	1344.7886	672.8979	1327.7620	664.3846	1326.7780	663.8926	10
6	800.4785	400.7429	783.4520	392.2296	782.4679	391.7376	D	1160.6674	580.8373	1143.6408	572.3241	1142.6568	571.8320	9
7	887.5105	444.2589	870.4840	435.7456	869.5000	435.2536	S	1045.6404	523.3239	1028.6139	514.8106	1027.6299	514.3186	8
8	1000.5946	500.8009	983.5681	492.2877	982.5840	491.7957	L	958.6084	479.8078	941.5819	471.2946			7
9	1163.6579	582.3326	1146.6314	573.8193	1145.6474	573.3273	Y	845.5244	423.2658	828.4978	414.7525			6
10	1347.7791	674.3932	1330.7526	665.8799	1329.7685	665.3879	K	682.4610	341.7341	665.4345	333.2209			5
11	1444.8319	722.9196	1427.8053	714.4063	1426.8213	713.9143	P	498.3398	249.6736	481.3133	241.1603			4
12	1557.9159	779.4616	1540.8894	770.9483	1539.9054	770.4563	I	401.2871	201.1472	384.2605	192.6339			3
13	1671.0000	836.0036	1653.9735	827.4904	1652.9894	826.9984	L	288.2030	144.6051	271.1765	136.0919			2
14							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 4722: 1229.697848 from(615.856200,2+) intensity(20065.5801)

Title: File314 Spectrum4887 scans: 6302

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-K562-Kpropio-methyl-IP-Fr9-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1229.7001

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

Variable modifications:

K7 : Propionyl-(13CD3)Methyl (K)

Ions Score: 41 Expect: 0.034

Matches : 28/98 fragment ions using 72 most intense peaks ([help](#))

#	b	y ⁰	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							12
2	185.1285	93.0679					A	1117.6233	559.3153	1100.5967	550.8020	1099.6127	550.3100	11
3	256.1656	128.5864					A	1046.5862	523.7967	1029.5596	515.2834	1028.5756	514.7914	10
4	371.1925	186.0999			353.1819	177.0946	D	975.5491	488.2782	958.5225	479.7649	957.5385	479.2729	9
5	470.2609	235.6341			452.2504	226.6288	V	860.5221	430.7647	843.4956	422.2514			8
6	527.2824	264.1448			509.2718	255.1396	G	761.4537	381.2305	744.4272	372.7172			7
7	729.4414	365.2243	712.4149	356.7111	711.4308	356.2191	K	704.4322	352.7198	687.4057	344.2065			6
8	786.4629	393.7351	769.4363	385.2218	768.4523	384.7298	G	502.2732	251.6402	485.2467	243.1270			5
9	857.5000	429.2536	840.4734	420.7404	839.4894	420.2483	A	445.2518	223.1295	428.2252	214.6162			4
10	928.5371	464.7722	911.5105	456.2589	910.5265	455.7669	A	374.2146	187.6110	357.1881	179.0977			3
11	1056.5957	528.8015	1039.5691	520.2882	1038.5851	519.7962	Q	303.1775	152.0924	286.1510	143.5791			2
12							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **AQYKGAASEAGR**

Found in **Q14320**, Protein FAM50A OS=Homo sapiens GN=FAM50A PE=1 SV=2

Match to Query 5830: 1319.647068 from(660.830810, 2+) intensity(899282.4375)

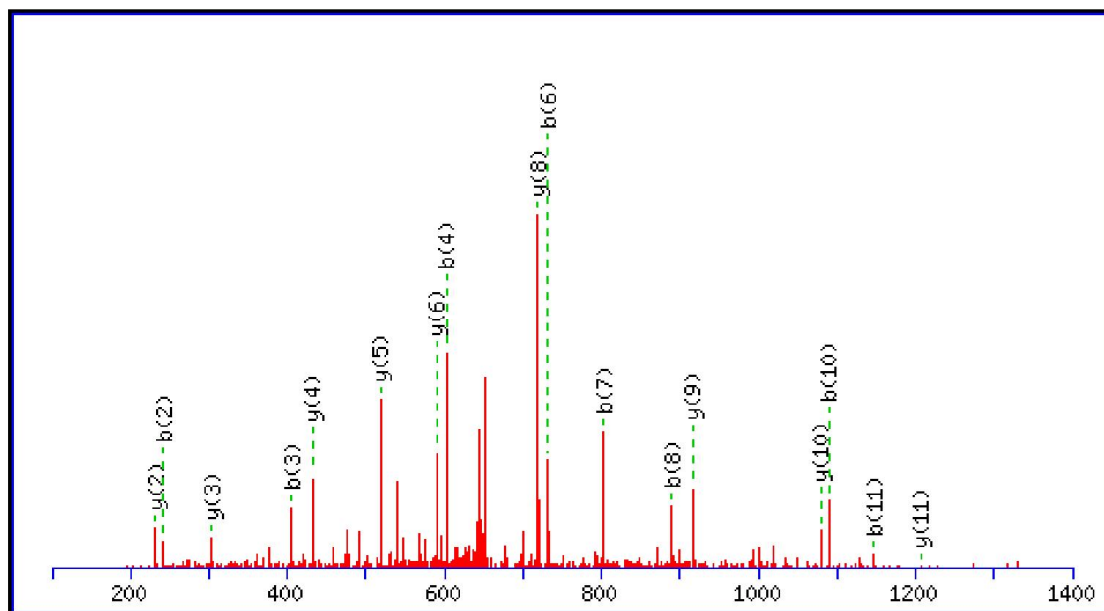
Title: File1284 Spectrum9530 scans: 10231

Data file I:\2013-9-12-Hela-Prometh-Fr9-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1319.6469

Fixed modifications: Carbamidomethyl (C) (apply to spec)

Variable modifications:

N-term : Acetyl (Protein N-term)

K4 : Propionyl-Methylation (K)

Ions Score: 77 Expect: 7.3e-006

Matches : 17/110 fragment ions using 24 most intense peak

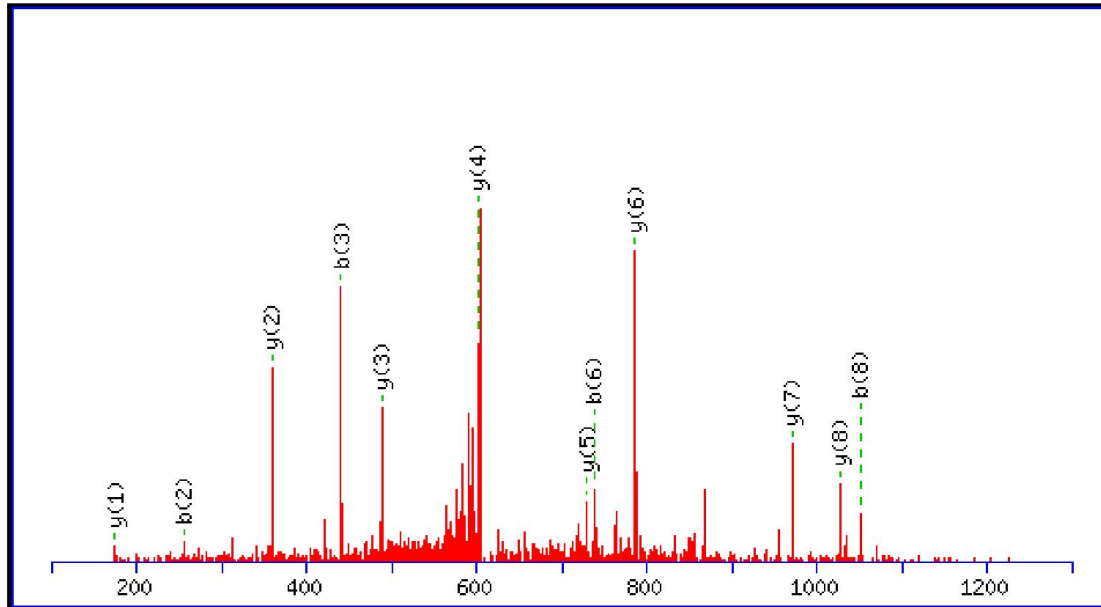
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0550	57.5311					A							12
2	242.1135	121.5604	225.0870	113.0471			Q	1207.6066	604.3069	1190.5800	595.7937	1189.5960	595.3016	11
3	405.1769	203.0921	388.1503	194.5788			Y	1079.5480	540.2776	1062.5215	531.7644	1061.5374	531.2724	10
4	603.3137	302.1605	586.2871	293.6472			K	916.4847	458.7460	899.4581	450.2327	898.4741	449.7407	9
5	660.3352	330.6712	643.3086	322.1579			G	718.3478	359.6776	701.3213	351.1643	700.3373	350.6723	8
6	731.3723	366.1898	714.3457	357.6765			A	661.3264	331.1668	644.2998	322.6536	643.3158	322.1615	7
7	802.4094	401.7083	785.3823	393.1951			A	590.2893	295.6483	573.2627	287.1350	572.2787	286.6430	6
8	889.4414	445.2243	872.4143	436.7111	871.4308	436.2191	S	519.2522	260.1297	502.2256	251.6164	501.2416	251.1244	5
9	1018.4840	509.7456	1001.4575	501.2324	1000.4734	500.7404	E	432.2201	216.6137	415.1936	208.1004	414.2096	207.6084	4
10	1089.5211	545.2642	1072.4948	536.7509	1071.5106	536.2589	A	303.1775	152.0924	286.1510	143.5791			3
11	1146.5426	573.7749	1129.5160	565.2617	1128.5320	564.7696	G	232.1404	116.5738	215.1139	108.0806			2
12							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 4910: 1224.717008 from(613.365780, 2+) intensity(136380.3906)

Title: File1284 Spectrum8249 scans: 8896

Data file I:\2013-9-12-Hela-Prometh-Fr9-ZW.mgf

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

Or, to DaLabel all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1224.7190**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-Methylation (K)**K3** : Propionyl (K)**K8** : Propionyl (K)**Ions Score:** 57 **Expect:** 0.001**Matches** : 12/80 fragment ions using 22 most intense peaks

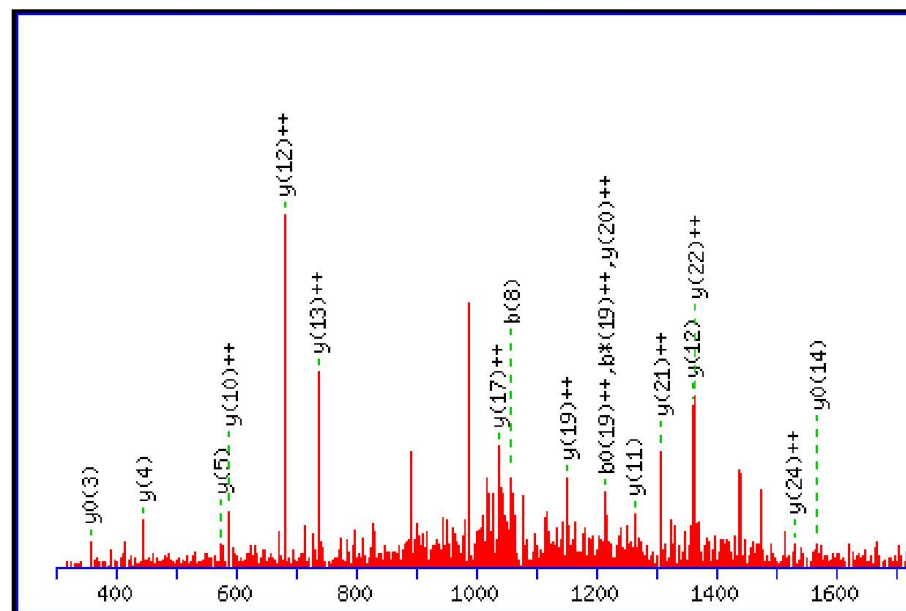
#	b	b ⁺⁺	b*	b ⁺⁺ *	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺ *	y ⁰	y ⁰⁺⁺	#
1	199.1491	100.0757	182.1176	91.5624			K							9
2	256.1656	128.5864	239.1390	120.0731			G	1027.5895	514.2984	1010.5629	505.7851	1009.5789	505.2931	8
3	440.2867	220.6474	423.2602	212.1337			K	970.5680	485.7876	953.5415	477.2744	952.5574	476.7824	7
4	497.3082	249.1577	480.2817	240.6445			G	786.4468	393.7271	769.4203	385.2138	768.4363	384.7218	6
5	625.3668	313.1870	608.3402	304.6738			Q	729.4254	365.2163	712.3988	356.7030	711.4148	356.2110	5
6	738.4509	369.7291	721.4243	361.2158			I	601.3668	301.1870	584.3402	292.6738	583.3562	292.1817	4
7	867.4934	434.2504	850.4669	425.7371	849.4829	425.2451	E	488.2827	244.6450	471.2562	236.1317	470.2722	235.6397	3
8	1051.6146	526.3109	1034.5881	517.7977	1033.6041	517.3057	K	359.2401	180.1237	342.2136	171.6104			2
9							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 22039: 3231.443622 from(1078.155150, 3+) intensity(15968.8232)

Title: File1284 Spectrum16424 scans: 17412

Data file I:\2013-9-12-Hela-Prometh-Fr9-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

#	b	b ⁺⁺	b [*]	b ⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺	y ⁰	y ⁰⁺⁺	#
1	116.0342	58.5207			98.0237	49.5155	D							26
2	173.0557	87.0315			155.0451	78.0262	G	3116.4517	1558.7295	3099.4252	1550.2162	3098.4412	1549.7242	25
3	371.1925	186.0999	354.1660	177.5866	353.1819	177.0946	K	3059.4303	1530.2188	3042.4037	1521.7055	3041.4197	1521.2135	24
4	502.2330	251.6201	485.2064	243.1069	484.2224	242.6149	N	2861.2934	1431.1504	2844.2669	1422.6371	2843.2829	1422.1451	23
5	617.2599	309.1336	600.2334	300.6203	599.2494	300.1283	D	2730.2529	1365.6301	2713.2264	1357.1168	2712.2424	1356.6248	22
6	801.3811	401.1942	784.3546	392.6809	783.3706	392.1889	K	2615.2260	1308.1166	2598.1995	1299.6034	2597.2154	1299.1114	21
7	990.4237	465.7155	913.3972	457.2022	912.4131	456.7102	E	2431.1048	1216.0561	2414.0783	1207.5428	2413.0943	1207.0508	20
8	1059.4663	530.2368	1042.4398	521.7235	1041.4557	521.2315	E	2302.0622	1151.5348	2285.0357	1143.0215	2284.0517	1142.5295	19
9	1160.5140	580.7606	1143.4874	572.2474	1142.5034	571.7553	T	2173.0196	1087.0135	2155.9931	1078.5002	2155.0091	1078.0082	18
10	1344.6352	672.8212	1327.6086	664.3079	1326.6246	663.8159	K	2071.9720	1036.4836	2054.9454	1027.9763	2053.9614	1027.4843	17
11	1459.6621	730.3347	1442.6356	721.8214	1441.6515	721.3294	D	1887.8508	944.4290	1870.8242	935.9158	1869.8402	935.4287	16
12	1645.7414	823.3743	1628.7149	814.8611	1627.7309	814.3691	W	1772.8238	886.9156	1755.7973	878.4023	1754.8133	877.9103	15
13	1758.8255	879.9164	1741.7989	871.4031	1740.8149	870.9111	I	1586.7445	793.8759	1569.7180	785.3626	1568.7340	784.8706	14
14	1871.9095	936.4584	1854.8830	927.9451	1853.8990	927.4531	L	1473.6605	737.3339	1456.6339	728.8206	1455.6499	728.3286	13
15	1968.9623	984.9848	1951.9358	976.4715	1950.9517	975.9795	P	1360.5764	680.7918	1343.5499	672.2786	1342.5658	671.7866	12
16	2055.9943	1028.5008	2038.9678	1019.9875	2037.9838	1019.4955	S	1263.5236	632.2655	1246.4971	623.7522	1245.5131	623.2602	11
17	2171.0213	1086.0143	2153.9947	1077.5010	2153.0107	1077.0090	D	1176.4916	588.7494	1159.4651	580.2362	1158.4810	579.7442	10
18	2334.0846	1167.5459	2317.0581	1159.0327	2316.0740	1158.5407	Y	1061.4647	531.2360	1044.4381	522.7227	1043.4541	522.2307	9
19	2449.1116	1225.0594	2432.0850	1216.5461	2431.1010	1216.0541	D	898.4013	449.7043	881.3748	441.1910	880.3908	440.6990	8
20	2586.1705	1293.5889	2569.1439	1285.0756	2568.1599	1284.5836	H	783.3744	392.1908	766.3478	383.6776	765.3638	383.1856	7
21	2657.2076	1329.1074	2640.1810	1320.5942	2639.1970	1320.1021	A	646.3155	323.6614	629.2889	315.1481	628.3049	314.6561	6
22	2786.2502	1393.6287	2769.2236	1385.1154	2768.2396	1384.6234	E	575.2784	288.1428	558.2518	279.6295	557.2678	279.1375	5
23	2857.2873	1429.1473	2840.2607	1420.6340	2839.2787	1420.1420	A	446.2358	223.6215	429.2092	215.1083	428.2252	214.6162	4
24	2986.3299	1493.6686	2969.3033	1485.1553	2968.3193	1484.6633	E	375.1987	188.1030	358.1721	179.5897	357.1881	179.0977	3
25	3057.3670	1529.1871	3040.3404	1520.6739	3039.3564	1520.1819	A	246.1561	123.5817	229.1295	115.0684		115.0684	2
26							R	175.1190	88.0631	158.0924	79.5498			1

Monoisotopic mass of neutral peptide Mr(calc): 3230.4713

Fixed modifications: Carbamidomethyl (C) (apply to specified)

Variable modifications:

K3 : Propionyl-Methylation (K)

K6 : Propionyl (K)

K10 : Propionyl (K)

Ions Score: 32 Expect: 0.17

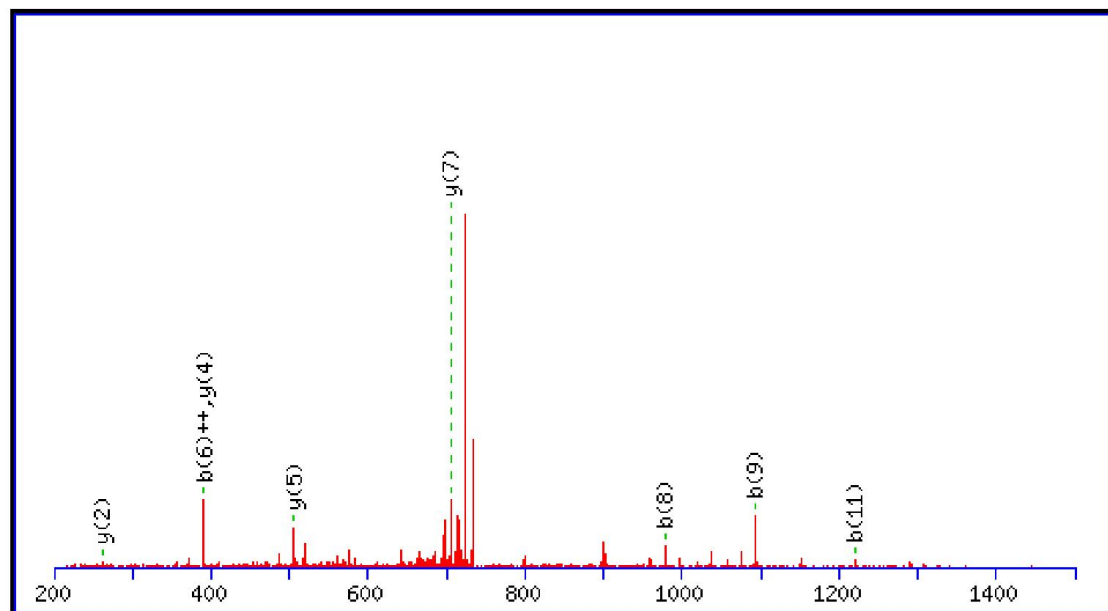
Matches : 18/292 fragment ions using 34 most intense peaks

Match to Query 8656: 1480.718368 from(741.366460,2+) intensity(77073.6719)

Title: File1284 Spectrum5157 scans: 5675

Data file I:\2013-9-12-Hela-Prometh-Fr9-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc): 1480.7100**

Fixed modifications: Carbamidomethyl (C) (apply to specified)

Variable modifications:

K6 : Propionyl-(13CD3)Methyl (K)

Ions Score: 22 Expect: 2.6

Matches : 8/130 fragment ions using 13 most intense peaks (he

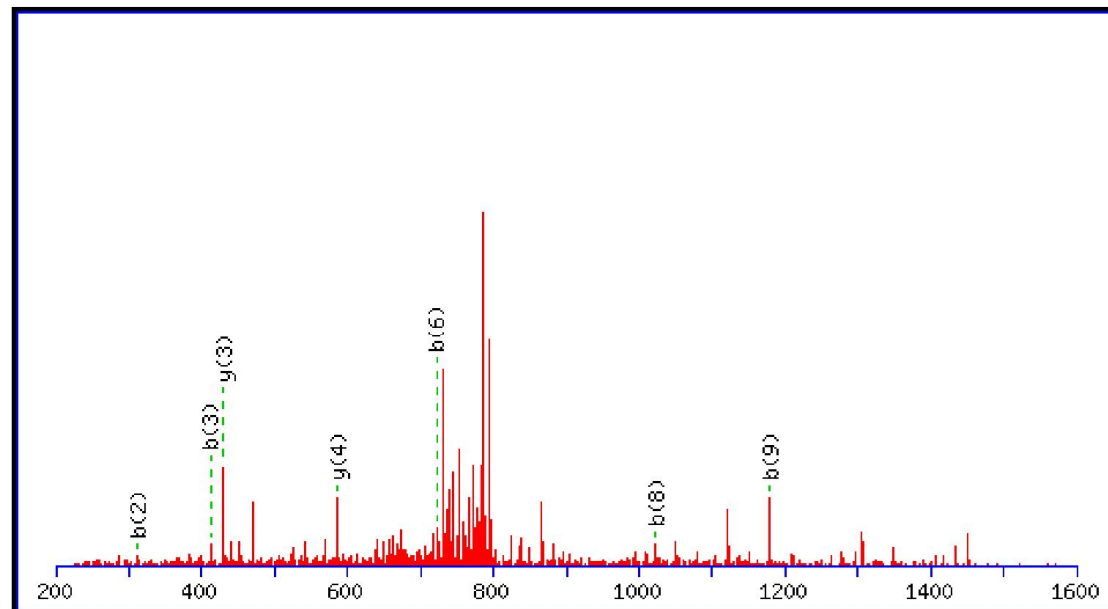
#	m/z	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	132.0478	66.5275					I							13
2	219.0798	110.0435			201.0692	101.0382	S	1350.6768	675.8421	1333.6503	667.3288	1332.6663	666.8368	12
3	332.1639	166.5856			314.1533	157.5803	L	1263.6448	632.3260	1246.6183	623.8128	1245.6342	623.3208	11
4	447.1908	224.0990			429.1802	215.0938	D	1150.5607	575.7840	1133.5342	567.2707	1132.5502	566.7787	10
5	576.2334	288.6203			558.2228	279.6151	E	1035.5338	518.2705	1018.5072	509.7573	1017.5232	509.2653	9
6	778.3924	389.6998	761.3659	381.1866	760.3818	380.6946	K	906.4912	453.7492	889.4647	445.2360	888.4806	444.7440	8
7	849.4295	425.2184	832.4030	416.7051	831.4190	416.2131	A	704.3322	352.6697	687.3056	344.1565	686.3216	343.6645	7
8	977.4881	489.2477	960.4615	480.7344	959.4775	480.2424	Q	633.2951	317.1512	616.2685	308.6379	615.2845	308.1459	6
9	1092.5150	546.7612	1075.4885	538.2479	1074.5045	537.7559	D	505.2365	253.1219	488.2100	244.6086	487.2259	244.1166	5
10	1163.5522	582.2797	1146.5256	573.7664	1145.5416	573.2744	A	390.2096	195.6084	373.1830	187.0951	372.1990	186.6031	4
11	1220.5736	610.7904	1203.5471	602.2772	1202.5630	601.7852	G	319.1724	160.0899	302.1459	151.5766	301.1619	151.0846	3
12	1307.6056	654.3065	1290.5791	645.7932	1289.5951	645.3012	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
13							R	175.1190	88.0631	158.0924	79.5438			1

Match to Query 10368: 1606.914528 from(804.464540, 2+) intensity(127834.1016)

Title: File1284 Spectrum6161 scans: 6721

Data file I:\2013-9-12-Hela-Prometh-Fr9-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1606.9195**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-Methylation (K)**K12** : Propionyl-Methylation (K)**Ions Score:** 24 **Expect:** 3.1**Matches** : 7/108 fragment ions using 14 most intense peaks

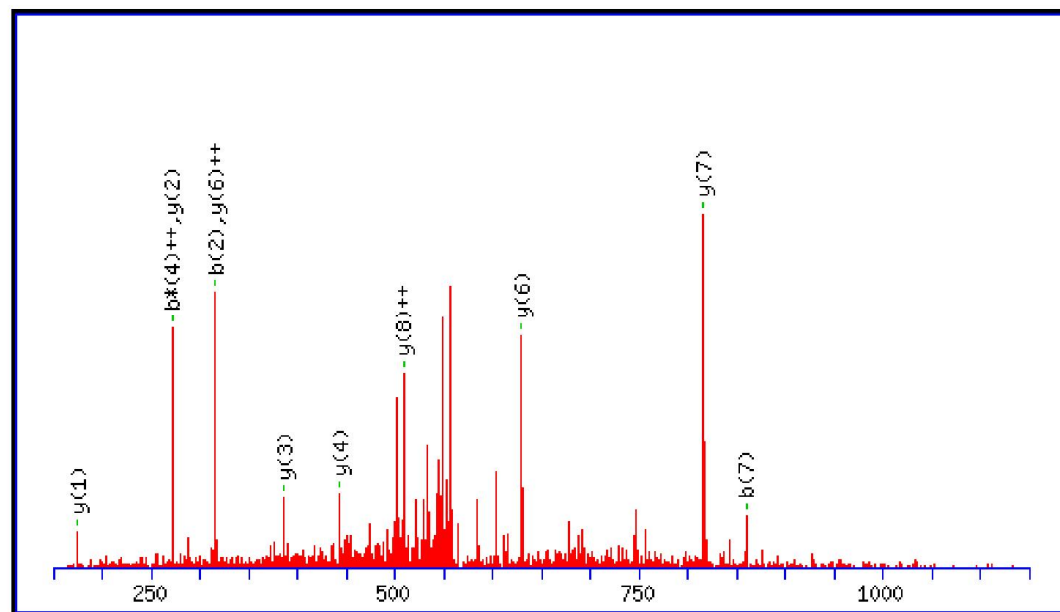
#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					I							12
2	312.2282	156.6177	295.2016	148.1044			K	1494.8427	747.9250	1477.8162	739.4117	1476.8322	738.9197	11
3	411.2966	206.1519	394.2700	197.6387			V	1296.7059	648.8566	1279.6793	640.3433	1278.6953	639.8513	10
4	508.3493	254.6733	491.3228	246.1650			P	1197.6375	599.3224	1180.6109	590.8091	1179.6269	590.3171	9
5	607.4178	304.2125	590.3912	295.6992			V	1100.5847	550.7960	1083.5582	542.2827	1082.5742	541.7907	8
6	722.4447	361.7260	705.4182	353.2127	704.4341	352.7207	D	1001.5163	501.2618	984.4398	492.7485	983.5057	492.2565	7
7	908.5240	454.7656	891.4975	446.2524	890.5135	445.7604	W	886.4894	443.7483	869.4628	435.2350			6
8	1022.5669	511.7871	1005.5404	503.2738	1004.5564	502.7818	N	700.4100	350.7087	683.3835	342.1954			5
9	1178.6681	589.8377	1161.6415	581.3244	1160.6575	580.8324	R	586.3671	293.6872	569.3406	285.1739			4
10	1277.7365	639.3719	1260.7099	630.8586	1259.7259	630.3666	V	430.2660	215.6366	413.2395	207.1234			3
11	1391.7794	696.3933	1374.7528	687.8801	1373.7638	687.3881	N	331.1976	166.1024	314.1710	157.5892			2
12							K	217.1547	109.0810	200.1281	100.5677			1

Match to Query 4008: 1130.563328 from(566.288940, 2+) intensity(57499.6953)

Title: File1284 Spectrum12379 scans: 13198

Data file I:\2013-9-12-Hela-Prometh-Fr9-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1130.5629**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****N-term :** Acetyl (Protein N-term)**K2 :** Propionyl-(13CD3)Methyl (K)**Ions Score:** 25 **Expect:** 1.1**Matches :** 11/82 fragment ions using 30 most intens

#	b	b ⁺⁺	b*	b ⁺⁺ *	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺ *	y ⁰	y ⁰⁺⁺	#
1	114.0550	57.5311					A							9
2	316.2140	158.6106	299.1874	150.0973			K	1018.5225	509.7649	1001.4960	501.2516	1000.5119	500.7596	8
3	502.2933	251.6503	485.2667	243.1370			W	816.3635	408.6854	799.3369	400.1721	798.3529	399.6801	7
4	559.3147	280.1610	542.2882	271.6477			G	630.2842	315.6457	613.2576	307.1325	612.2736	306.6404	6
5	688.3573	344.6823	671.3308	336.1690	670.3468	335.6770	E	573.2627	287.1350	556.2362	278.6217	555.2522	278.1297	5
6	745.3788	373.1930	728.3523	364.6798	727.3682	364.1878	G	444.2201	222.6137	427.1936	214.1004	426.2096	213.6084	4
7	860.4057	430.7065	843.3792	422.1932	842.3952	421.7012	D	387.1987	194.1030	370.1721	185.5897	369.1881	185.0977	3
8	957.4585	479.2329	940.4320	470.7196	939.4479	470.2276	P	272.1717	136.5895	255.1452	128.0762			2
9							R	175.1190	88.0631	158.0924	79.5498			1

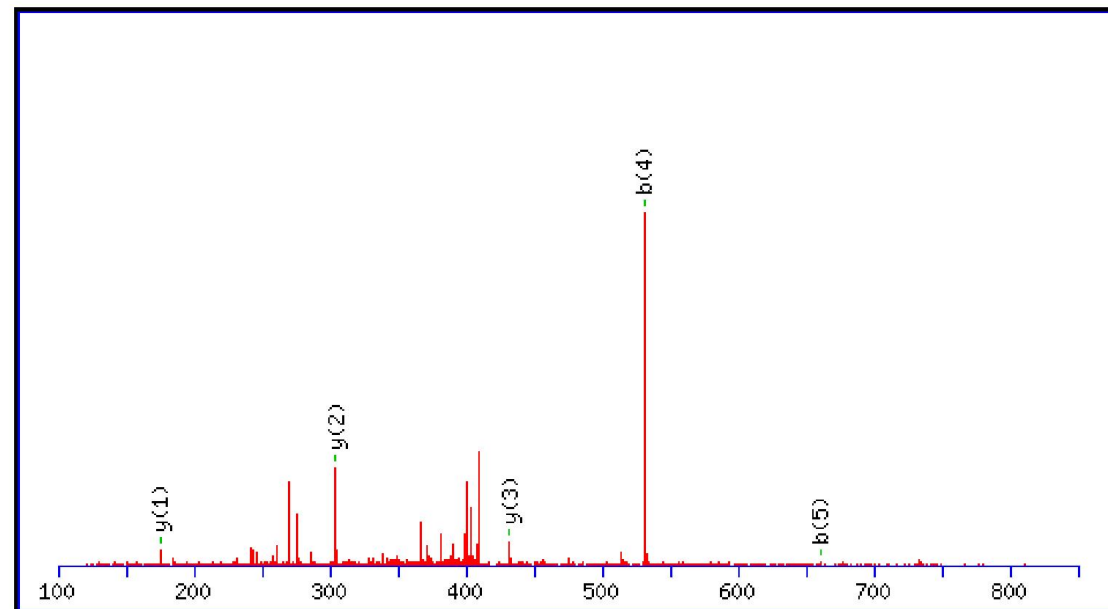
MS/MS Fragmentation of **KEAKER**Found in **Q8WUQ7**, Cactin OS=Homo sapiens GN=CACTIN PE=1 SV=3

Match to Query 832: 833.487468 from(417.751010,2+) intensity(111378.0000)

Title: File1284 Spectrum4600 scans: 5095

Data file I:\2013-9-12-Hela-Prometh-Fr9-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 833.4879**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:**

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 23 **Expect:** 1.8**Matches :** 5/56 fragment ions using 7 most

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							6
2	332.2089	166.6081	315.1823	158.0948	314.1983	157.6028	E	632.3362	316.6717	615.3097	308.1585	614.3257	307.6665	5
3	403.2460	202.1266	386.2194	193.6134	385.2354	193.1214	A	503.2936	252.1504	486.2671	243.6372	485.2831	243.1452	4
4	531.3410	266.1741	514.3144	257.6608	513.3304	257.1688	K	432.2565	216.6319	415.2300	208.1186	414.2459	207.6266	3
5	660.3836	330.6954	643.3570	322.1821	642.3730	321.6901	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
6							R	175.1190	88.0631	158.0924	79.5498			1

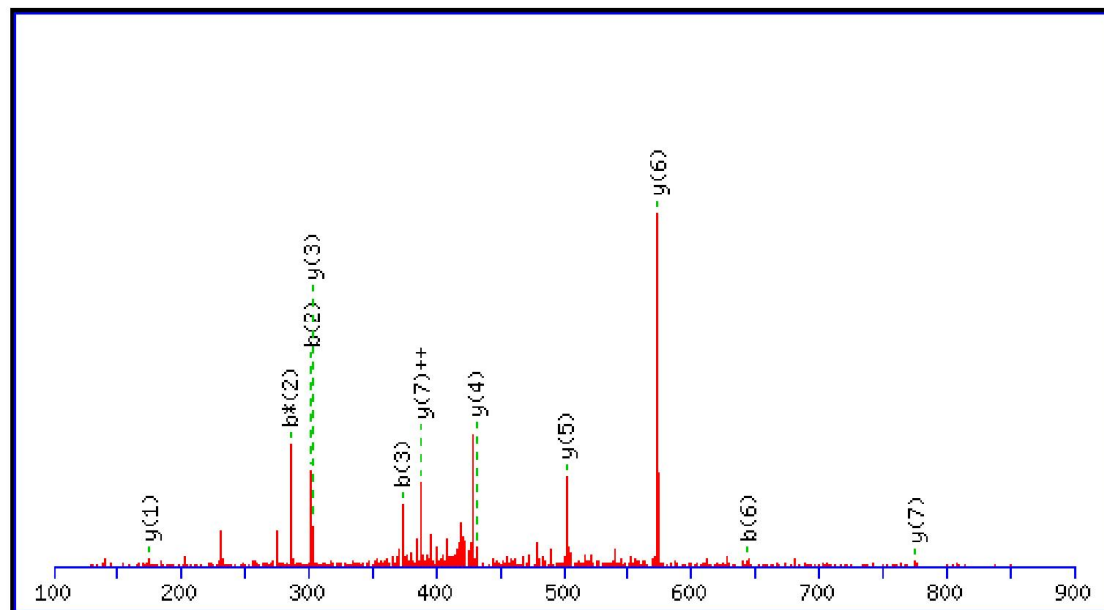
Found in **Q99986**, Serine/threonine-protein kinase VRK1 OS=Homo sapiens GN=VRK1 PE=1 SV=1

Match to Query 1176: 873.530668 from(437.772610, 2+) intensity(58982.7031)

Title: File1284 Spectrum2177 scans: 2565

Data file I:\2013-9-12-Hela-Prometh-Fr9-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 873.5305**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or**Variable modifications:****K2** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 31 **Expect:** 0.24**Matches** : 11/54 fragment ions using 30 most intense peaks ([help](#))

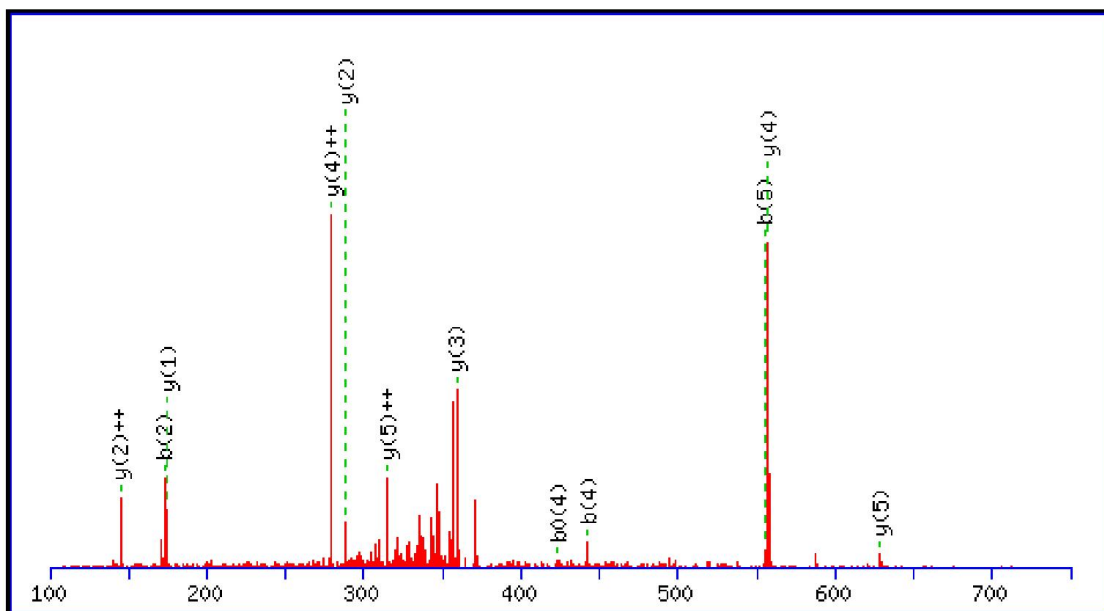
#	b	b ⁺⁺	b*	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	#
1	100.0757	50.5415			V					8
2	302.2347	151.6210	285.2082	143.1077	K	775.4693	388.2383	758.4428	379.7250	7
3	373.2718	187.1395	356.2453	178.6263	A	573.3103	287.1588	556.2838	278.6455	6
4	444.3089	222.6581	427.2824	214.1448	A	502.2732	251.6402	485.2467	243.1270	5
5	572.3675	286.6874	555.3410	278.1741	Q	431.2361	216.1217	414.2096	207.6084	4
6	643.4046	322.2059	626.3781	313.6927	A	303.1775	152.0924	286.1510	143.5791	3
7	700.4261	350.7167	683.3995	342.2034	G	232.1404	116.5738	215.1139	108.0606	2
8					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 134: 728.454268 from(365.234410, 2+) intensity(67997.4141)

Title: File1284 Spectrum5448 scans: 5978

Data file I:\2013-9-12-Hela-Prometh-Fr9-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 728.4545**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K3** : Propionyl-Methylation (K)**Ions Score:** 42 **Expect:** 0.036**Matches :** 12/46 fragment ions using 19 most intens

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
1	102.0550	51.5311			84.0444	42.5258	T					6
2	173.0921	87.0497			155.0815	78.0444	A	628.4141	314.7107	611.3875	306.1974	5
3	371.2289	186.1181	354.2023	177.6048	353.2183	177.1128	K	557.3770	279.1921	540.3504	270.6788	4
4	442.2660	221.6366	425.2395	213.1234	424.2554	212.6314	A	359.2401	180.1237	342.2136	171.6104	3
5	555.3501	278.1787	538.3235	269.6654	537.3395	269.1734	L	288.2030	144.6051	271.1765	136.0919	2
6							R	175.1190	88.0631	158.0924	79.5498	1

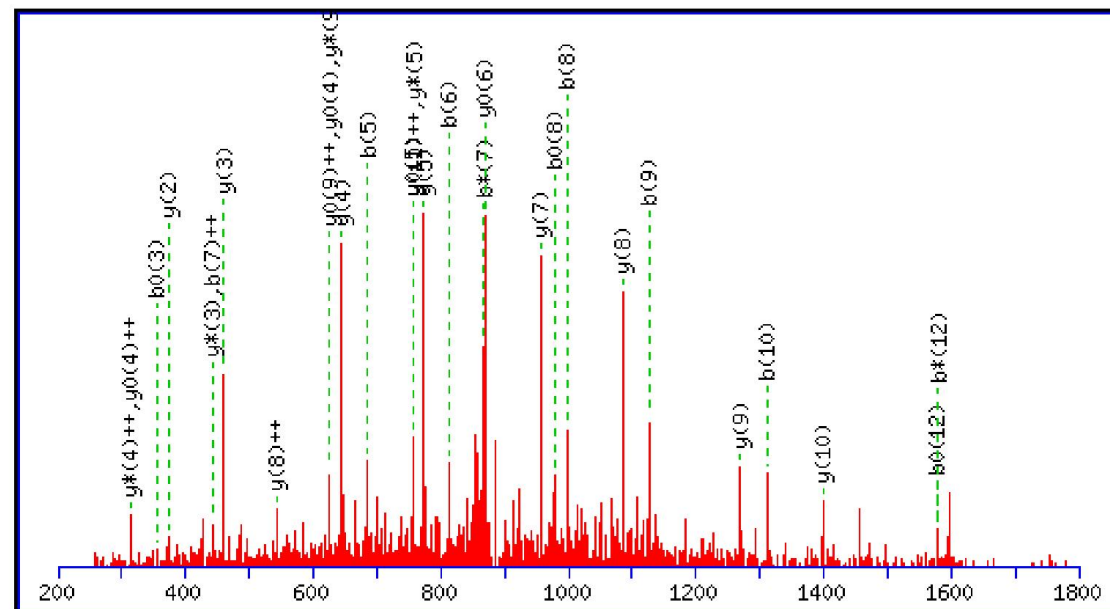
MS/MS Fragmentation of **EEIEKQALEKSKR**Found in **J3KP06**, LIM domain only protein 7 OS=Homo sapiens GN=LMO7 PE=4 SV=1

Match to Query 13253: 1768.958108 from(885.486330,2+) intensity(98777.8906)

Title: File1335 Spectrum13992 scans: 15047

Data file I:\2013-9-14-Hela-Prometh-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):****Fixed modifications:** Carbamidomethyl (C) (apply**Variable modifications:****K5** : Propionyl (K)**K10** : Propionyl (K)**K12** : Propionyl-Methylation (K)**Ions Score:** 39 **Expect:** 0.15**Matches** : 30/132 fragment ions using 47 most inter

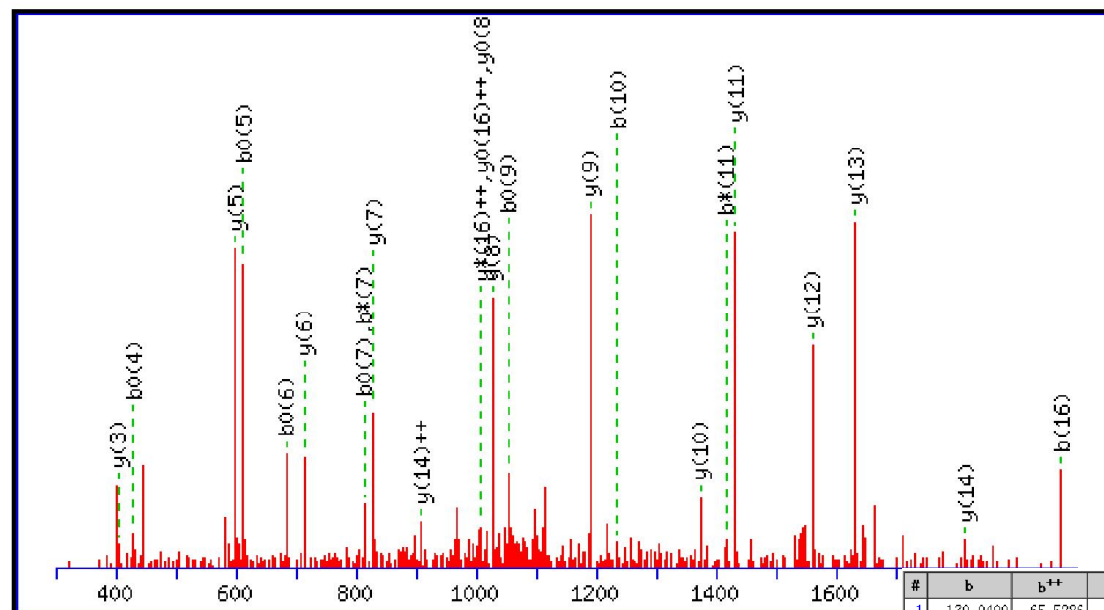
#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.4286			112.0393	56.5233	E							13
2	259.0925	130.0499			241.0819	121.0446	E	1640.9218	820.9645	1623.8952	812.4512	1622.9112	811.9592	12
3	372.1765	186.5919			354.1660	177.5866	I	1511.8792	756.4432	1494.8526	747.9299	1493.8686	747.4379	11
4	501.2191	251.1132			483.2086	242.1079	E	1398.7951	699.9012	1381.7686	691.3879	1380.7845	690.8959	10
5	685.3403	343.1738	668.3137	334.6605	667.3297	334.1685	K	1269.7525	635.3799	1252.7260	626.8666	1251.7419	626.3746	9
6	813.3989	407.2031	796.3723	398.6898	795.3883	398.1978	Q	1085.6313	543.3193	1068.6048	534.8060	1067.6208	534.3140	8
7	884.4360	442.7216	867.4094	434.2084	866.4254	433.7164	A	957.5728	479.2900	940.5462	470.7767	939.5622	470.2847	7
8	997.5201	499.2637	980.4935	490.7504	979.5095	490.2584	L	886.5356	443.7715	869.5091	435.2582	868.5251	434.7662	6
9	1126.5626	563.7850	1109.5361	555.2717	1108.5521	554.7797	E	773.4516	387.2294	756.4250	378.7162	755.4410	378.2241	5
10	1310.6838	655.8456	1293.6573	647.3323	1292.6733	646.8403	K	644.4090	322.7081	627.3824	314.1949	626.3984	313.7028	4
11	1397.7159	699.3616	1380.6893	690.8483	1379.7053	690.3563	S	460.2878	230.6475	443.2613	222.1343	442.2772	221.6423	3
12	1595.8527	798.4300	1578.8261	789.9167	1577.8421	789.4247	K	373.2558	187.1315	356.2292	178.6183			2
13							R	175.1190	88.0631	158.0924	79.5498			1

Match to [Query 17355: 2261.124128 from(1131.569340, 2+) intensity(220357.1875)

Title: File1335 Spectrum15418 scans: 16533

Data file I:\2013-9-14-Hela-Prometh-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 2261.1216

Fixed modifications: Carbamidomethyl (C) (apply to specified

Variable modifications:

K5 : Propionyl (K)

K9 : Propionyl (K)

K11 : Propionyl-Methylation (K)

Ions Score: 69 Expect: 0.00015

Matches : 24/192 fragment ions using 34 most intense peaks

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	E							18
2	227.1026	114.0550			209.0921	105.0497	P	2133.0863	1067.0468	2116.0597	1058.5335	2115.0757	1058.0415	17
3	384.1241	142.5657			266.1135	133.5604	G	2036.0335	1018.5204	2019.0070	1010.0071	2018.0229	1009.5151	16
4	447.1874	224.0974			429.1769	215.0921	Y	1979.0120	990.0097	1961.9855	981.4964	1961.0015	981.0044	15
5	631.3086	316.1579	614.2821	307.6447	613.2980	307.1527	K	1815.9487	908.4780	1798.9222	899.9647	1797.9381	899.4727	14
6	702.3457	351.6765	685.3192	343.1632	684.3352	342.6712	A	1631.8275	816.4174	1614.8010	807.9041	1613.8170	807.4121	13
7	831.3883	416.1978	814.3618	407.6845	813.3777	407.1925	E	1560.7904	780.8988	1543.7639	772.3856	1542.7799	771.8936	12
8	888.4098	444.7085	871.3832	436.1953	870.3992	435.7032	G	1431.7478	716.3775	1414.7213	707.8643	1413.7373	707.3723	11
9	1072.5310	536.7691	1055.5044	528.2558	1054.5204	527.7638	K	1374.7264	687.8668	1357.6998	679.3535	1356.7158	678.8615	10
10	1235.5943	618.3008	1218.5677	609.7875	1217.5837	609.2955	Y	1190.6052	595.8062	1173.5786	587.2930	1172.5946	586.8009	9
11	1433.7311	717.3692	1416.7046	708.8559	1415.7205	708.3639	K	1027.5419	514.2746	1010.5153	505.7613	1009.5313	505.2693	8
12	1548.7581	774.8827	1531.7315	766.3694	1530.7475	765.8774	D	829.4050	415.2061	812.3785	406.6929	811.3945	406.2009	7
13	1663.7850	832.3961	1646.7584	823.8829	1645.7744	823.3909	D	714.3781	357.6927	697.3515	349.1794	696.3675	348.6874	6
14	1760.8378	880.9225	1743.8112	872.4092	1742.8272	871.9172	P	599.3511	300.1792	582.3246	291.6659	581.3406	291.1739	5
15	1859.9062	930.4567	1842.8796	921.9435	1841.8956	921.4514	V	502.2984	251.6528	485.2718	243.1395	484.2878	242.6475	4
16	1974.9331	987.9702	1957.9066	979.4569	1956.9226	978.9649	D	403.3300	202.1186	386.2034	193.6053	385.2194	193.1133	3
17	2088.0172	1044.5122	2070.9806	1035.9990	2070.0066	1035.5069	L	288.2030	144.6051	271.1765	136.0919			2
18							R	175.1190	88.0631	158.0924	79.5498			1

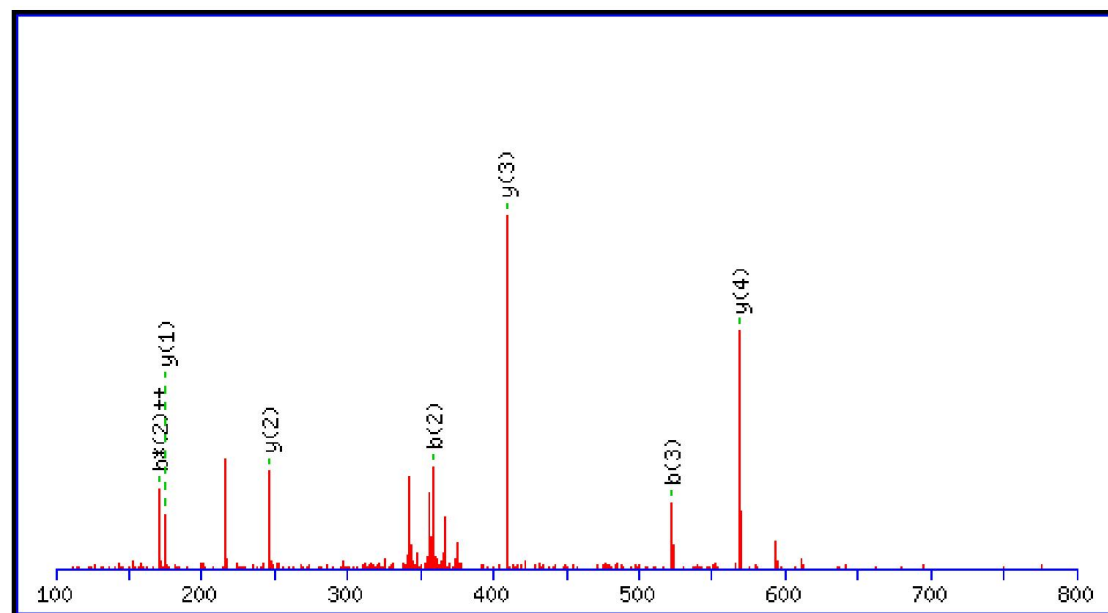
Found in **152987**, Ubiquitin-60S ribosomal protein L40 OS=Homo sapiens GN=UBA52 PE=1 SV=2

Match to Query 369: 766.379928 from(384.197240, 2+) intensity(2831251.5000)

Title: File1335 Spectrum3580 scans: 4199

Data file I:\2013-9-14-Hela-Prometh-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 766.3796**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-Methylation (K)**Ions Score:** 28 **Expect:** 0.25**Matches** : 7/32 fragment ions using 13 most

#	b	b ⁺⁺	b ⁺	b ⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624	K					5
2	359.1748	180.0910	342.1482	171.5777	C	569.2500	285.1287	552.2235	276.6154	4
3	522.2381	261.6227	505.2115	253.1094	Y	409.2194	205.1133	392.1928	196.6001	3
4	593.2752	297.1412	576.2486	288.6280	A	246.1561	123.5817	229.1295	115.0684	2
5					R	175.1190	88.0631	158.0924	79.5498	1

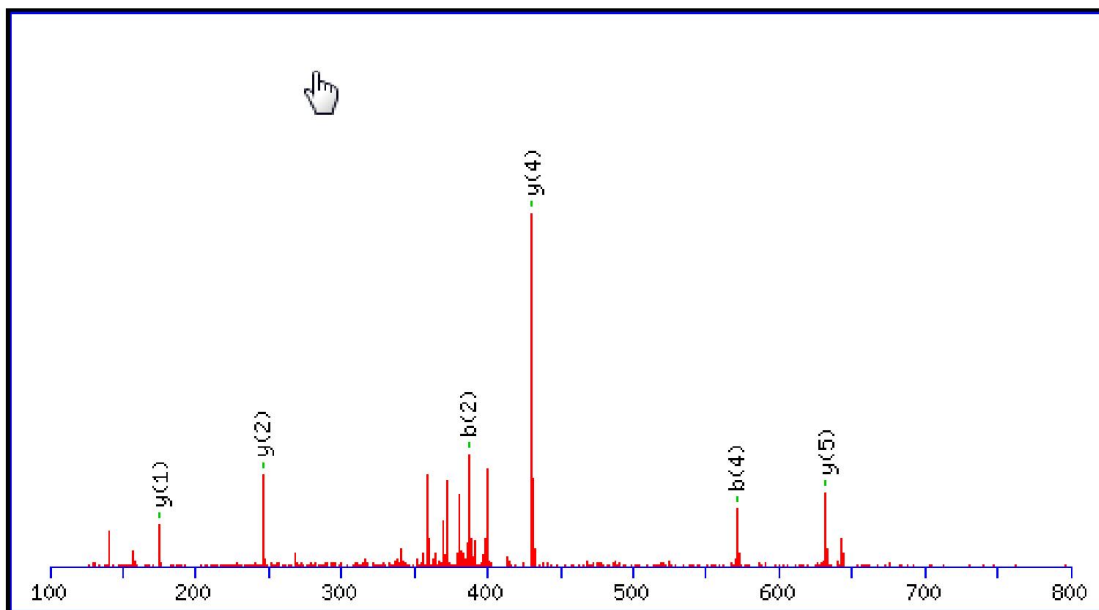
Found in **Q8IZN3**, Probable palmitoyltransferase ZDHHC14 OS=Homo sapiens GN=ZDHHC14 PE=1 SV=1

Match to Query 865: 815.551428 from(408.782990, 2+) intensity(964894.4375)

Title: File1335 Spectrum3724 scans: 4349

Data file I:\2013-9-14-Hela-Prometh-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 815.5501**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl (K)**K2** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 35 **Expect:** 0.036**Matches** : 6/40 fragment ions using 7 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546	K					6
2	387.2875	194.1474	370.2609	185.6341	K	632.4363	316.7218	615.4097	308.2085	5
3	500.3715	250.6894	483.3450	242.1761	I	430.2772	215.6423	413.2507	207.1290	4
4	571.4086	286.2080	554.3821	277.6947	A	317.1932	159.1002	300.1666	150.5870	3
5	642.4458	321.7265	625.4192	313.2132	A	246.1561	123.5817	229.1295	115.0684	2
6					R	175.1190	88.0631	158.0924	79.5498	1

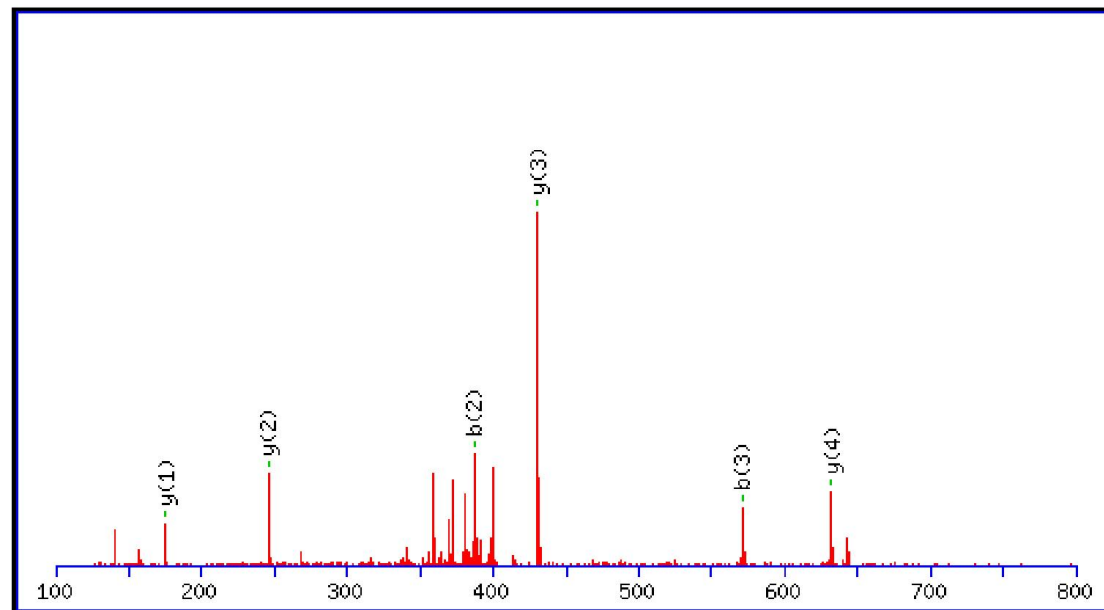
MS/MS Fragmentation of **KKKAR**Found in **E5RJU9**, Protein LYRIC OS=Homo sapiens GN=MTDH PE=2 SV=1

Match to Query 865: 815.551428 from(408.782990,2+) intensity(964894.4375)

Title: File1335 Spectrum3724 scans: 4349

Data file I:\2013-9-14-Hela-Prometh-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 815.5501**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl (K)**K2** : Propionyl-(13CD3)Methyl (K)**K3** : Propionyl (K)**Ions Score:** 35 **Expect:** 0.036**Matches** : 6/32 fragment ions using 7 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	#
1	185.1285	93.5679	168.1019	84.5546	K					5
2	387.2875	194.1474	370.2609	185.6341	K	632.4363	316.7218	615.4097	308.2085	4
3	571.4086	286.2080	554.3821	277.6947	K	430.2772	215.6423	413.2507	207.1290	3
4	642.4458	321.7265	625.4192	313.2132	A	246.1561	123.5817	229.1295	115.0684	2
5					R	175.1190	88.0631	158.0924	79.5498	1

MS/MS Fragmentation of **KQKGAETELVR**

Found in **F5GWB7**, Putative ribosomal RNA methyltransferase NOP2 (Fragment) OS=Homo sapiens GN=NOP2 PE=2 SV=1

Match to Query 8071: 1383.771708 from(692.893130, 2+) intensity(148107.1250)

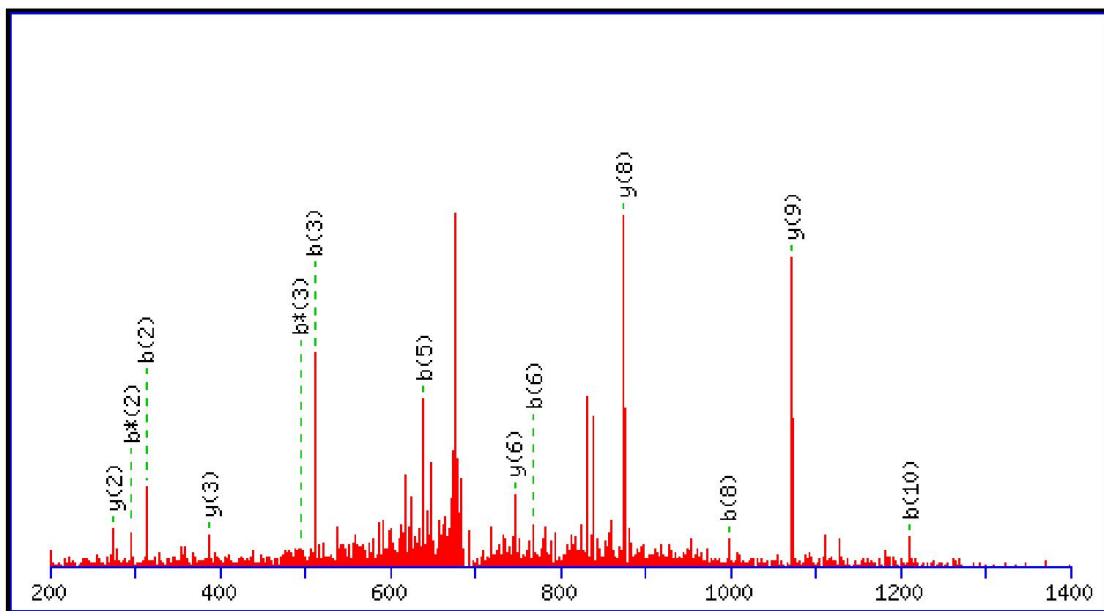
Title: File1335 Spectrum10460 scans: 11368

Data file I:\2013-9-14-Hela-Prometh-Fr8-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide **Mr(calc): 1383.7722**

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

Variable modifications:

K1 : Propionyl (K)

K3 : Propionyl-Methylation (K)

Ions Score: 35 Expect: 0.28

Matches : 13/104 fragment ions using 24 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							11
2	313.1870	157.0972	296.1605	148.5839			Q	1200.6583	600.8328	1183.6317	592.3195	1182.6477	591.8275	10
3	511.3239	256.1656	494.2973	247.6523			K	1072.5997	536.8035	1055.5732	528.2902	1054.5891	527.7982	9
4	568.3453	284.6763	551.3188	276.1630			G	874.4629	437.7351	857.4363	429.2218	856.4523	428.7298	8
5	639.3824	320.1946	622.3559	311.6816			A	817.4414	409.2243	800.4149	400.7111	799.4308	400.2191	7
6	768.4250	384.7162	751.3985	376.2029	750.4145	375.7109	E	746.4043	373.7058	729.3777	365.1925	728.3937	364.7005	6
7	869.4727	435.2400	852.4462	426.7267	851.4621	426.2347	T	617.3617	309.1845	600.3352	300.6712	599.3511	300.1792	5
8	998.5153	499.7613	981.4888	491.2480	980.5047	490.7560	E	516.3140	258.6606	499.2875	250.1474	498.3035	249.6554	4
9	1111.5994	556.3033	1094.5728	547.7900	1093.5888	547.2980	L	387.2714	194.1394	370.2449	185.6261			3
10	1210.6678	605.8375	1193.6412	597.3243	1192.6572	596.8322	V	274.1874	137.5973	257.1608	129.0840			2
11							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **KTTTASPR**

Found in **HOY4F5**, Microtubule-actin cross-linking factor 1, isoforms 1/2/3/5 (Fragment) OS=Homo sapiens GN=MACF1 PE=4 SV=1

Match to Query 1905: 930.513228 from(466.263890, 2+) intensity(407209.8438)

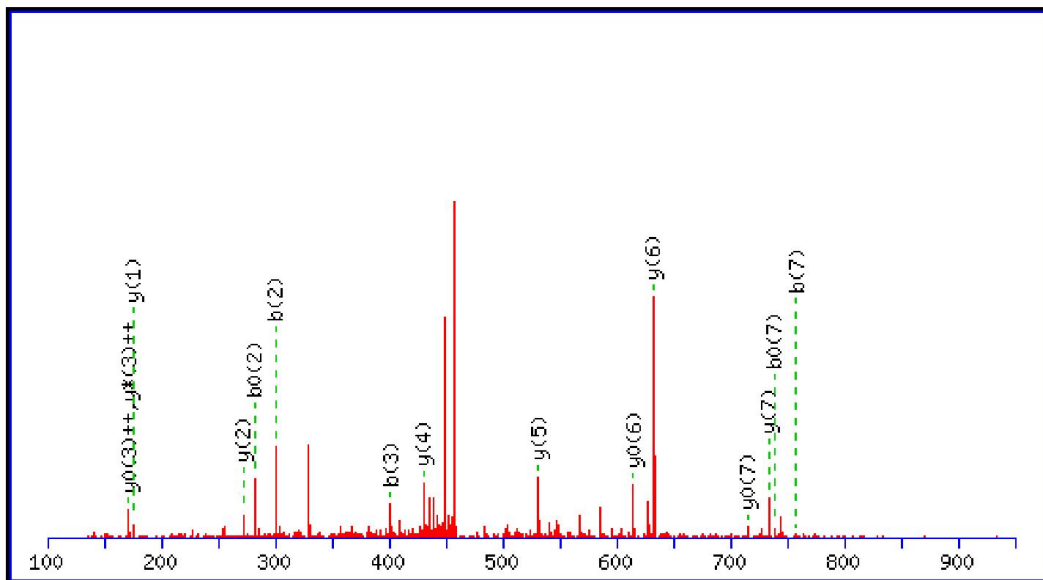
Title: File1335 Spectrum2573 scans: 3147

Data file I:\2013-9-14-Hela-Prometh-Fr8-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 930.5134

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

Variable modifications:

K1 : Propionyl-Methylation (K)

Ions Score: 40 **Expect:** 0.059

Matches : 15/78 fragment ions using 29 most inte

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624			K							8
2	300.1918	150.5995	283.1652	142.0863	282.1812	141.5942	T	733.3839	367.1956	716.3573	358.6823	715.3733	358.1903	7
3	401.2395	201.1234	384.2129	192.6101	383.2289	192.1181	T	632.3362	316.6717	615.3097	308.1585	614.3257	307.6665	6
4	502.2871	251.6472	485.2606	243.1339	484.2766	242.6419	T	531.2885	266.1479	514.2620	257.6346	513.2780	257.1426	5
5	573.3243	287.1658	556.2977	278.6525	555.3137	278.1605	A	430.2409	215.6241	413.2143	207.1108	412.2303	206.6188	4
6	660.3563	330.6818	643.3297	322.1685	642.3457	321.6765	S	359.2037	180.1055	342.1772	171.5922	341.1932	171.1002	3
7	757.4090	379.2082	740.3825	370.6949	739.3985	370.2029	P	272.1717	136.5895	255.1452	128.0762			2
8							R	175.1190	88.0631	158.0924	79.5498			1

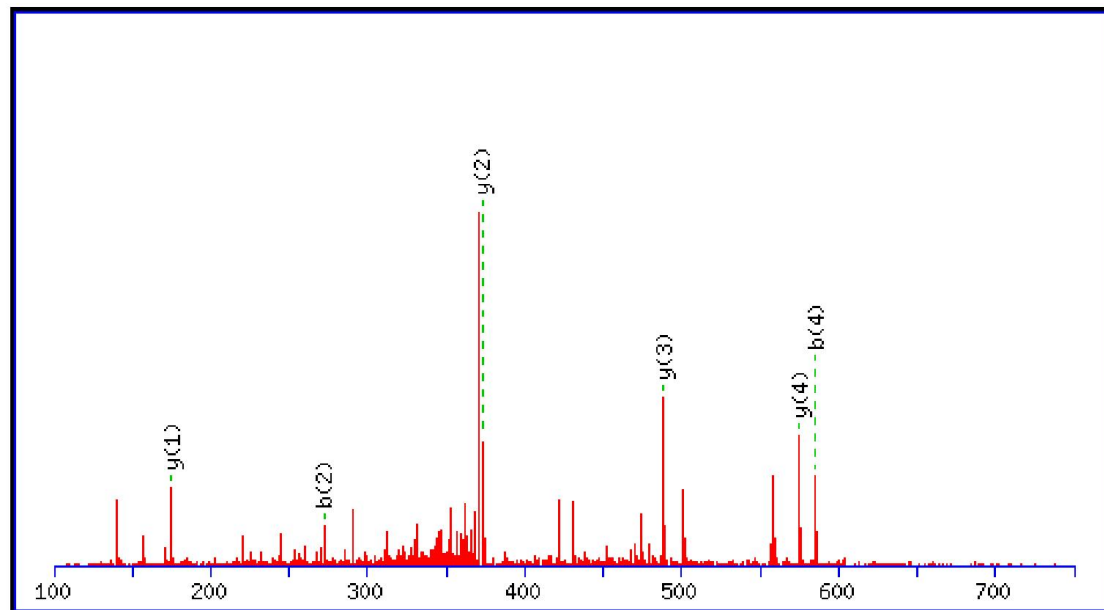
MS/MS Fragmentation of **KSDKR**Found in **E9PHK9**, Treacle protein OS=Homo sapiens GN=TCOF1 PE=2 SV=1

Match to Query 292: 758.428568 from(380.221560, 2+) intensity(95754.7266)

Title: File1335 Spectrum2909 scans: 3499

Data file I:\2013-9-14-Hela-Prometh-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 758.4286**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl (K)**K4** : Propionyl-Methylation (K)**Ions Score:** 23 **Expect:** 3.1**Matches** : 6/42 fragment ions using

#	b	b ⁺⁺	b*	b* ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y* ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							5
2	272.1605	136.5839	255.1339	128.0406	254.1499	127.5786	S	575.3148	288.1610	558.2882	279.6477	557.3042	279.1557	4
3	387.1874	194.0974	370.1609	185.5841	369.1769	185.0921	D	488.2827	244.6450	471.2562	236.1317	470.2722	235.6397	3
4	585.3243	293.1658	568.2977	284.6525	567.3137	284.1605	K	373.2558	187.1315	356.2292	178.6183			2
5							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **KAGPAKEQEPMPYVDSHEPR**

Found in **H3BU16**, Hematological and neurological-expressed 1-like protein (Fragment) OS=Homo sapiens GN=HM1L PE=2 SV=1

Match to Query 17788: 2337.181782 from(780.067870, 3+) intensity(170386.1250)

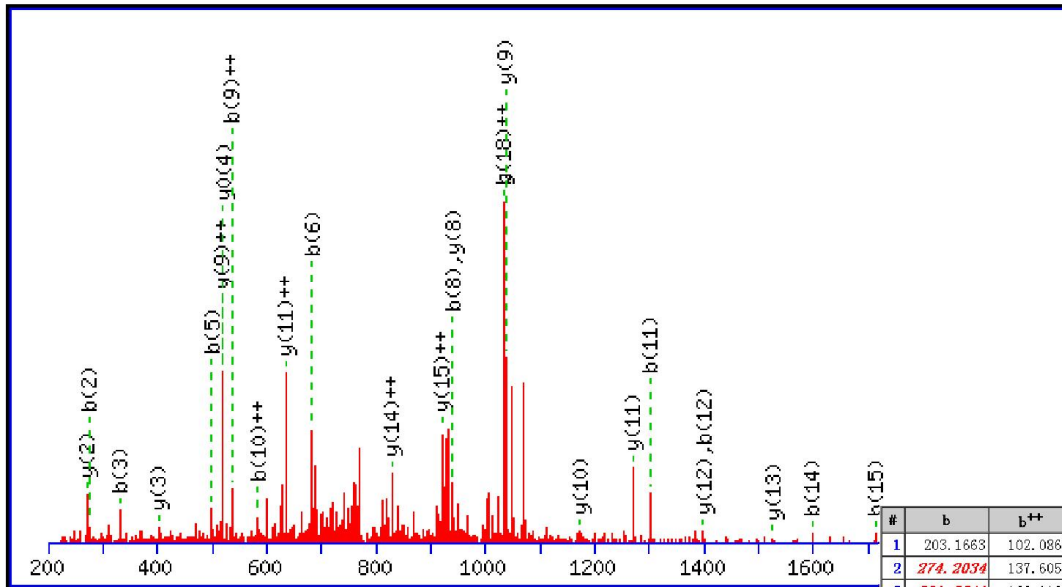
Title: File1335 Spectrum9443 scans: 10309

Data file I:\2013-9-14-Hela-Prometh-Fr8-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2337.1816

Fixed modifications: Carbamidomethyl (C) (apply to specified)

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

K6 : Propionyl (K)

M11 : Label:13C(1)2H(3) (M)

Ions Score: 52 **Expect:** 0.0088

Matches : 26/212 fragment ions using 49 most intense peaks

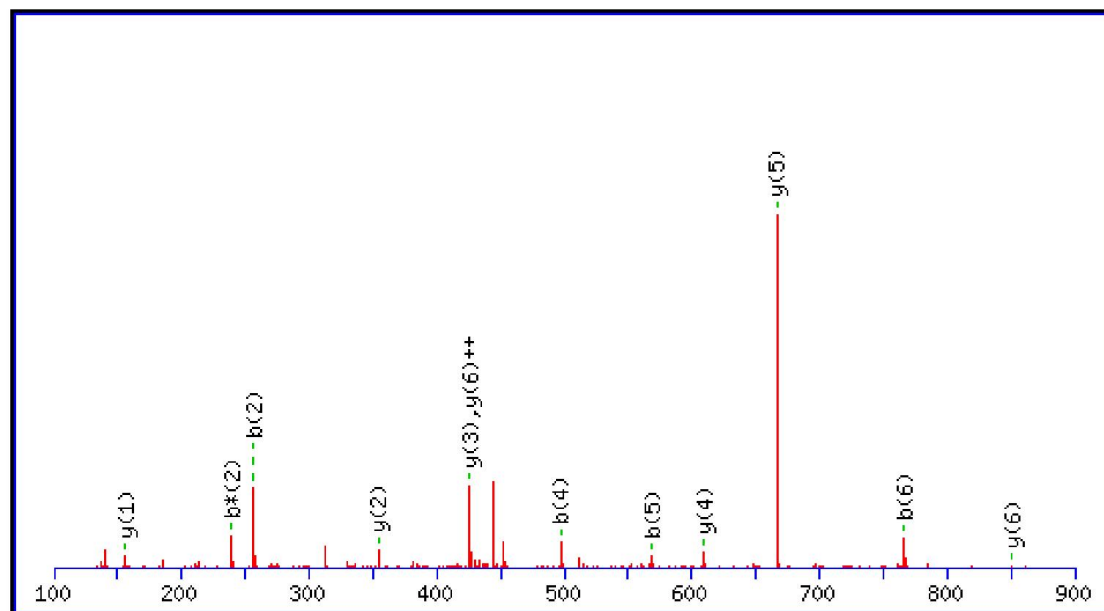
#	b	b ⁺⁺	b ⁺	b ⁺ ++	b ⁰	b ⁰ ++	Seq.	y	y ⁺⁺	y ⁺	y ⁺ ++	y ⁰	y ⁰ ++	#
1	203.1663	102.0868	186.1397	93.5735			K							20
2	274.2034	137.6053	257.1769	129.0921			A	2136.0299	1068.5188	2119.0033	1060.0053	2118.0193	1059.5133	19
3	331.2249	166.1161	314.1983	157.6028			G	2064.9928	1033.0000	2047.9662	1024.4867	2046.9822	1023.9947	18
4	428.2776	214.6425	411.2511	206.1292			P	2007.9713	1004.4893	1990.9448	995.9760	1989.9607	995.4840	17
5	499.3147	250.1610	482.2882	241.6477			A	1910.9185	955.9629	1893.8920	947.4496	1892.9080	946.9576	16
6	683.4359	342.2216	666.4094	333.7083			K	1839.8814	920.4444	1822.8549	911.9311	1821.8709	911.4391	15
7	812.4785	406.7429	795.4520	398.2296	794.4680	397.7376	E	1655.7602	828.3838	1638.7337	819.8705	1637.7497	819.3785	14
8	940.5371	470.7722	923.5105	462.2589	922.5265	461.7669	Q	1526.7177	763.8625	1509.6911	755.3492	1508.7071	754.8572	13
9	1069.5797	535.2935	1052.5531	526.7802	1051.5691	526.2882	E	1398.6591	699.8332	1381.6325	691.3199	1380.6485	690.8279	12
10	1166.6325	583.8199	1149.6059	575.3066	1148.6219	574.8146	P	1269.6165	635.3119	1252.5899	626.7986	1251.6059	626.3066	11
11	1301.6951	651.3512	1284.6886	642.8379	1283.6846	642.3459	N	1172.5637	596.7855	1155.5372	578.2722	1154.5532	577.7802	10
12	1398.7479	699.8776	1381.7213	691.3643	1380.7373	690.8723	P	1037.5010	519.2542	1020.4745	510.7409	1019.4905	510.2489	9
13	1499.7956	750.4014	1482.7690	741.8881	1481.7850	741.3961	T	940.4483	470.7278	923.4217	462.2145	922.4377	461.7225	8
14	1598.8640	799.9356	1581.8374	791.4224	1580.8534	790.9303	V	839.4006	420.2039	822.3741	411.6907	821.3900	411.1987	7
15	1713.8909	857.4491	1696.8644	848.9358	1695.8804	848.4438	D	740.3322	370.6697	723.3056	362.1565	722.3216	361.6645	6
16	1800.9229	900.9651	1783.8964	892.4518	1782.9124	891.9598	S	625.3052	313.1563	608.2787	304.6430	607.2947	304.1510	5
17	1937.9819	969.4946	1920.9553	960.9813	1919.9713	960.4893	H	538.2732	269.6402	521.2467	261.1270	520.2627	260.6350	4
18	2067.0245	1034.0159	2049.9979	1025.5026	2049.0139	1025.0106	E	401.2143	201.1108	384.1878	192.5975	383.2037	192.1055	3
19	2164.0772	1082.5422	2147.0507	1074.0290	2146.0667	1073.5370	P	272.1717	136.5895	255.1452	128.0762			2
20							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 1831: 920.544288 from(461.279420, 2+) intensity(11015136.0000)

Title: File1335 Spectrum4977 scans: 5657

Data file I:\2013-9-14-Hela-Prometh-Fr8-ZW.mgf

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

Or, to DaLabel all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 920.5443**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl (K)**K4** : Propionyl (K)**K6** : Propionyl-Methylation (K)**Ions Score:** 52 **Expect:** 0.0031**Matches** : 12/44 fragment ions using 16 most intense peaks

#	b	b ⁺⁺	b [*]	b ⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺	#
1	72.0444	36.5258			A					7
2	256.1656	128.5864	239.1390	120.0731	K	850.5145	425.7609	833.4880	417.2476	6
3	313.1870	157.0972	296.1605	148.5839	G	666.3933	333.7003	649.3668	325.1870	5
4	497.3082	249.1577	480.2817	240.6445	K	609.3719	305.1896	592.3453	296.6763	4
5	568.3453	284.6763	551.3188	276.1630	A	425.2507	213.1290	408.2241	204.6157	3
6	766.4822	383.7447	749.4556	375.2314	K	354.2136	177.6104	337.1870	169.0972	2
7					H	156.0768	78.5420			1

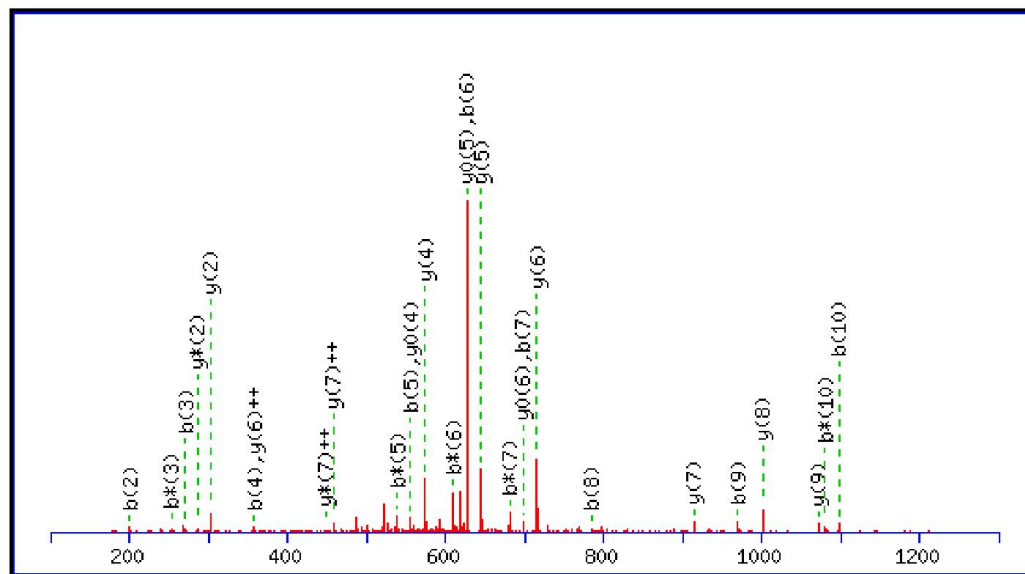
MS/MS Fragmentation of **QAASKAASKQR**Found in **Q9H1E3**, Nuclear ubiquitous casein and cyclin-dependent kinase substrate 1 OS=Homo sapiens GN=NUCKS1 PE=1 SV=1

Match to Query 6574: 1270.698588 from(636.356570,2+) intensity(3423992.7500)

Title: File1335 Spectrum4404 scans: 5060

Data file I:\2013-9-14-Hela-Prometh-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1270.6993

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

Variable modifications:

K5 : Propionyl-Methylation (K)**K9** : Propionyl (K)

Ions Score: 60 Expect: 0.00069

Matches : 28/108 fragment ions using 43 most intense peaks

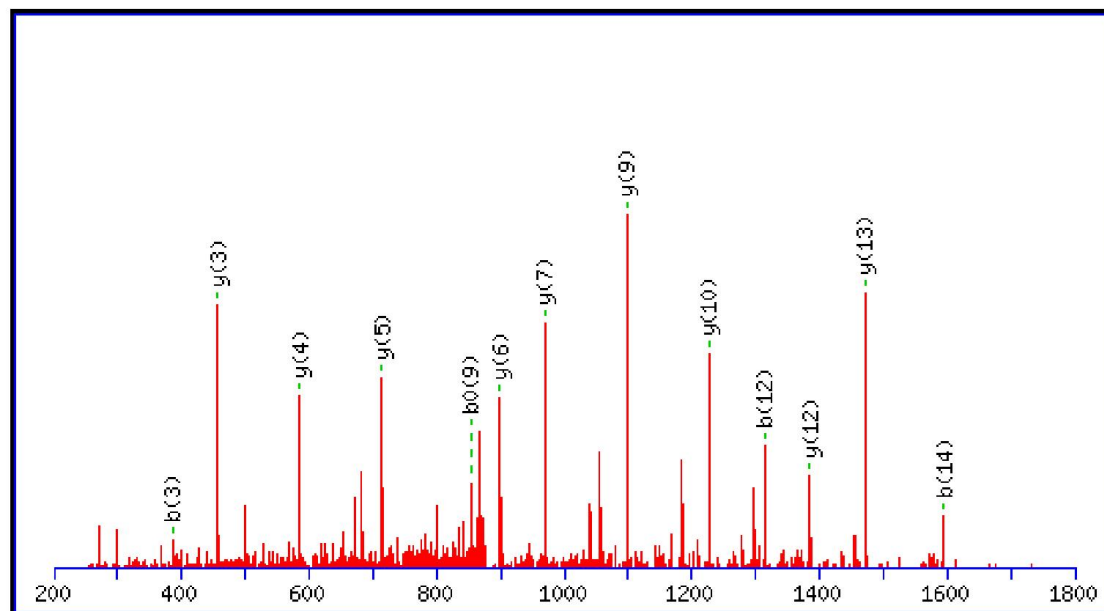
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	129.0659	65.3666	112.0393	56.5233			Q							11
2	200.1030	100.5551	183.0764	92.0418			A	1143.6480	572.3277	1126.6215	563.8144	1125.6375	563.3224	10
3	271.1401	136.0737	254.1135	127.5604			A	1072.6109	536.8091	1055.5844	528.2958	1054.6004	527.8038	9
4	358.1721	179.5897	341.1456	171.0764	340.1615	170.5844	S	1001.5738	501.2905	984.5473	492.7773	983.5633	492.2853	8
5	556.3089	278.6581	539.2824	270.1448	538.2984	269.6528	K	914.5418	457.7745	897.5152	449.2613	896.5312	448.7693	7
6	627.3461	314.1767	610.3195	305.6634	609.3355	305.1714	A	716.4050	358.7061	699.3784	350.1928	698.3944	349.7008	6
7	698.3832	349.6952	681.3566	341.1819	680.3726	340.6899	A	645.3678	323.1876	628.3413	314.6743	627.3573	314.1823	5
8	785.4152	393.2112	768.3886	384.6980	767.4046	384.2060	S	574.3307	287.6690	557.3042	279.1557	556.3202	278.6637	4
9	969.5364	485.2718	952.5098	476.7585	951.5258	476.2665	K	487.2987	244.1530	470.2722	235.6397			3
10	1097.5949	549.3011	1080.5684	540.7878	1079.5844	540.2958	Q	303.1775	152.0924	286.1510	143.5791			2
11							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 10403: 1767.936628 from(884.975590, 2+) intensity(180978.7031)

Title: File1311 Spectrum7689 scans: 8288

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1767.93****Fixed modifications:** Carbamidomethyl (C) (apply to specific)**Variable modifications:****K1** : Propionyl-Methylation (K)**K10** : Propionyl (K)**K14** : Propionyl (K)**Ions Score:** 81 **Expect:** 8.2e-006**Matches** : 13/158 fragment ions using 15 most intense peaks

#	b	b ⁺⁺	b*	b* ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y* ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624			K							15
2	298.2125	149.6099	281.1860	141.0966			V	1570.8071	785.9072	1553.7806	777.3939	1552.7966	776.9019	14
3	385.2445	193.1259	368.2180	184.6126	367.2340	184.1206	S	1471.7387	736.3730	1454.7122	727.8597	1453.7281	727.3677	13
4	472.2766	236.6419	455.2500	228.1287	454.2660	227.6366	S	1384.7067	692.8570	1367.6801	684.3437	1366.6961	683.8517	12
5	543.3137	272.1605	526.2871	263.6472	525.3031	263.1552	A	1297.6747	649.3410	1280.6481	640.8277	1279.6641	640.3357	11
6	672.3563	336.6818	655.3297	328.1685	654.3457	327.6765	E	1226.6375	613.8224	1209.6110	605.3091	1208.6270	604.8171	10
7	729.3777	365.1925	712.3512	356.6792	711.3672	356.1872	G	1097.5950	549.3011	1080.5684	540.7878	1079.5844	540.2958	9
8	800.4149	400.7111	783.3883	392.1978	782.4043	391.7058	A	1040.5735	520.7904	1023.5469	512.2771	1022.5629	511.7851	8
9	871.4520	436.2296	854.4254	427.7163	853.4414	427.2243	A	969.5364	485.2718	952.5098	476.7585	951.5258	476.2665	7
10	1055.5732	528.2902	1038.5466	519.7769	1037.5626	519.2849	K	898.4993	449.7533	881.4727	441.2400	880.4887	440.7480	6
11	1184.6157	592.8115	1167.5892	584.2982	1166.6052	583.8062	E	714.3781	357.6927	697.3515	349.1794	696.3675	348.6874	5
12	1313.6583	657.3328	1296.6318	648.8195	1295.6478	648.3275	E	585.3355	293.1714	568.3089	284.6581	567.3249	284.1661	4
13	1410.7111	705.8592	1393.6846	697.3459	1392.7005	696.8539	P	456.2929	228.6501	439.2663	220.1368			3
14	1594.8323	797.9198	1577.8057	789.4065	1576.8217	788.9145	K	359.2401	180.1237	342.2136	171.6104			2
15							R	175.1190	88.0631	158.0924	79.5498			1

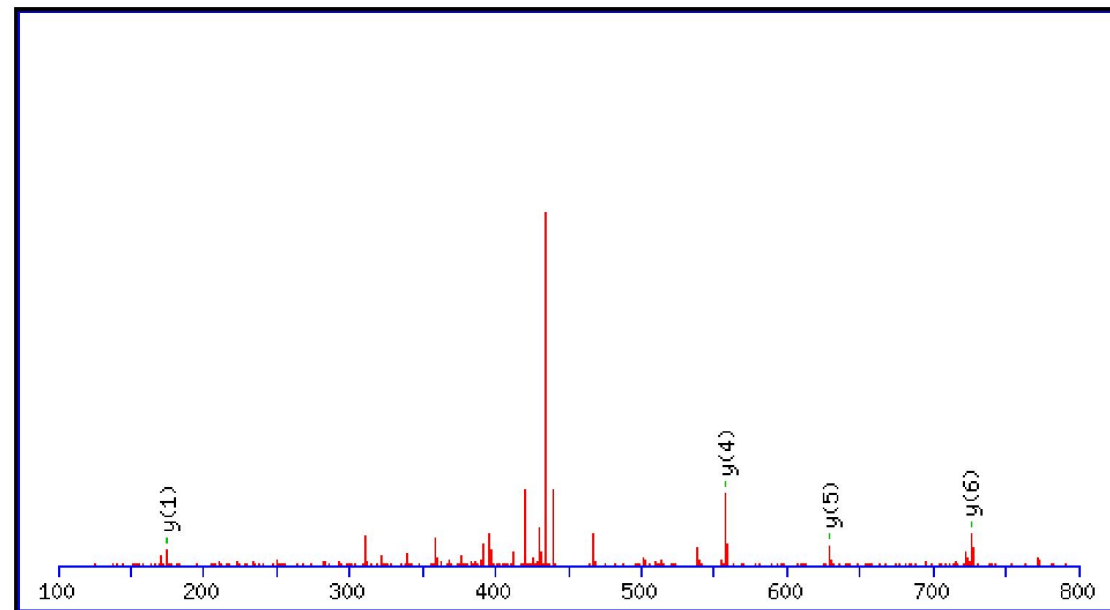
MS/MS Fragmentation of **KPAQGKR**Found in **H7BY00**, Twist-related protein 1 (Fragment) OS=Homo sapiens GN=TWIST1 PE=4 SV=1

Match to Query 1527: 895.524688 from(448.769620, 2+) intensity(5036782.0000)

Title: File1311 Spectrum3415 scans: 3835

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc):** 895.5239

Fixed modifications: Carbamidomethyl (C) (apply to s

Variable modifications:

N-term : Acetyl (Protein N-term)**K6** : Propionyl-Methylation (K)**Ions Score:** 21 **Expect:** 2.2**Matches** : 4/48 fragment ions using 7 most intense peak

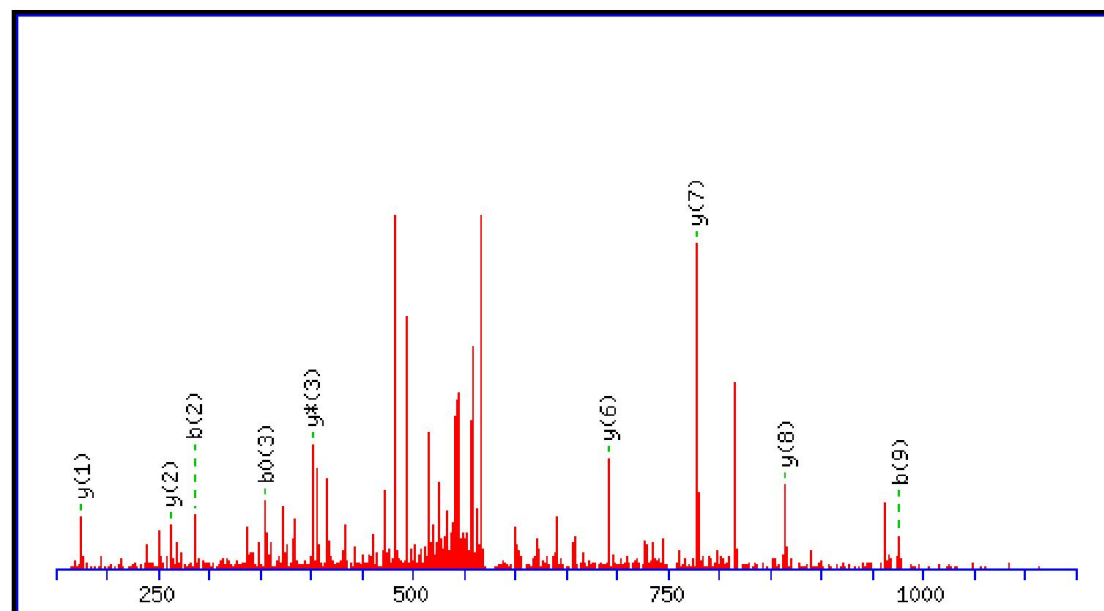
#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	171.1128	86.0600	154.0863	77.5468	K					7
2	268.1656	134.5864	251.1390	126.0731	P	726.4257	363.7165	709.3992	355.2032	6
3	339.2027	170.1050	322.1761	161.5917	A	629.3729	315.1901	612.3464	306.6768	5
4	467.2613	234.1348	450.2347	225.6210	Q	558.3358	279.6715	541.3093	271.1583	4
5	524.2827	262.6450	507.2562	254.1317	G	430.2772	215.6423	413.2507	207.1290	3
6	722.4196	361.7134	705.3930	353.2001	K	373.2558	187.1315	356.2292	178.6183	2
7					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 4756: 1149.599208 from(575.806880, 2+) intensity(250741.9531)

Title: File1311 Spectrum3095 scans: 3501

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1149.6102**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-Methylation (K)**Ions Score:** 23 **Expect:** 2.7**Matches** : 9/104 fragment ions using 20 most intense peaks

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							10
2	286.1761	143.5917	269.1496	135.0784	268.1656	134.5864	K	1063.5854	532.2964	1046.5889	523.7831	1045.5749	523.2911	9
3	373.2082	187.1077	356.1816	178.5944	355.1976	178.1024	S	865.4486	433.2279	848.4221	424.7147	847.4381	424.2227	8
4	460.2402	230.6237	443.2136	222.1105	442.2296	221.6184	S	778.4166	389.7119	761.3900	381.1987	760.4060	380.7067	7
5	547.2722	274.1397	530.2457	265.6265	529.2617	265.1345	S	691.3846	346.1959	674.3580	337.6826	673.3740	337.1906	6
6	646.3406	323.6740	629.3441	315.1607	628.3301	314.6687	V	604.3525	302.6799	587.3260	294.1666	586.3420	293.6746	5
7	733.3727	367.1900	716.3461	358.6787	715.3621	358.1847	S	505.2841	253.1457	488.2576	244.6324	487.2736	244.1404	4
8	889.4738	445.2405	872.4472	436.7272	871.4632	436.2352	R	418.2521	209.6297	401.2255	201.1164	400.2415	200.6244	3
9	976.5058	488.7565	959.4792	480.2433	958.4952	479.7513	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
10							R	175.1190	88.0631	158.0924	79.5498			1

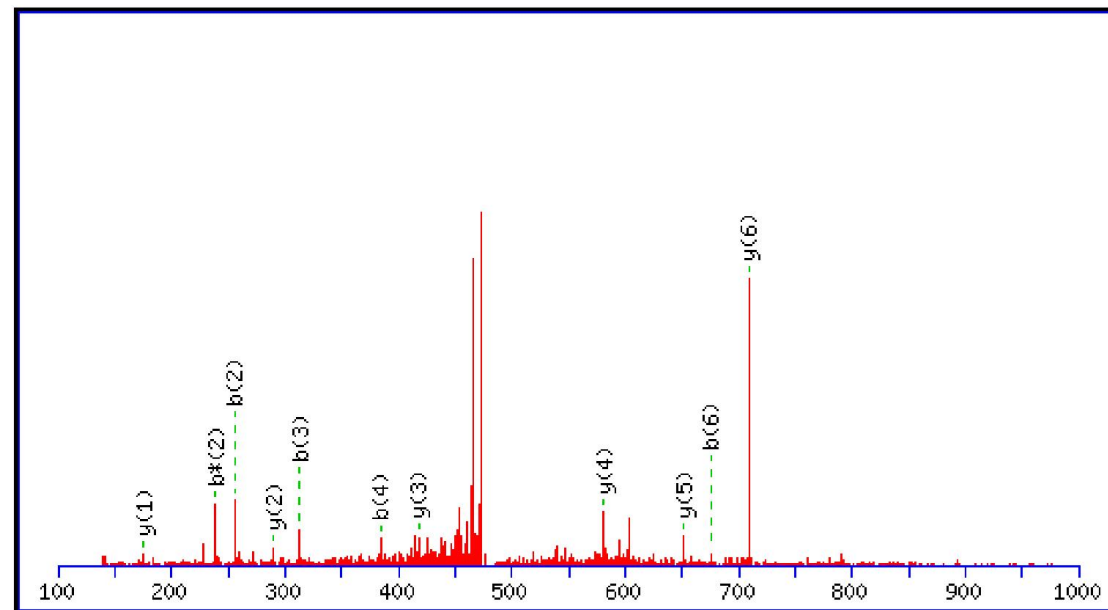
Found in **P50991**, T-complex protein 1 subunit delta OS=Homo sapiens GN=CCT4 PE=1 SV=4

Match to Query 2292: 963.476348 from(482.745450, 2+) intensity(105868.3750)

Title: File1311 Spectrum4256 scans: 4712

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide $M_r(\text{calc})$:** 963.4774**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-Methylation (K)**Ions Score:** 29 **Expect:** 0.36**Matches** : 11/68 fragment ions using 36 most :

#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							8
2	256.1656	128.5864	239.1390	120.0731			K	907.4632	454.2352	890.4367	445.7220	889.4526	445.2300	7
3	313.1870	157.0972	296.1605	148.5839			G	709.3264	355.1668	692.2998	346.6536	691.3158	346.1615	6
4	384.2241	192.6157	367.1976	184.1024			A	652.3049	326.6561	635.2784	318.1428	634.2944	317.6508	5
5	547.2875	274.1474	530.2609	265.6341			Y	581.2678	291.1375	564.2413	282.6243	563.2572	282.1323	4
6	675.3461	338.1767	658.3195	329.6634			Q	418.2045	209.6059	401.1779	201.0926	400.1939	200.6006	3
7	790.3730	395.6901	773.3464	387.1769	772.3624	386.6849	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
8							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **KSTLIPTQR**

Found in **075376**, Nuclear receptor corepressor 1 OS=Homo sapiens GN=NCOR1 PE=1 SV=2

Match to Query 4127: 1100.619488 from(551.317020, 2+) intensity(68938.2031)

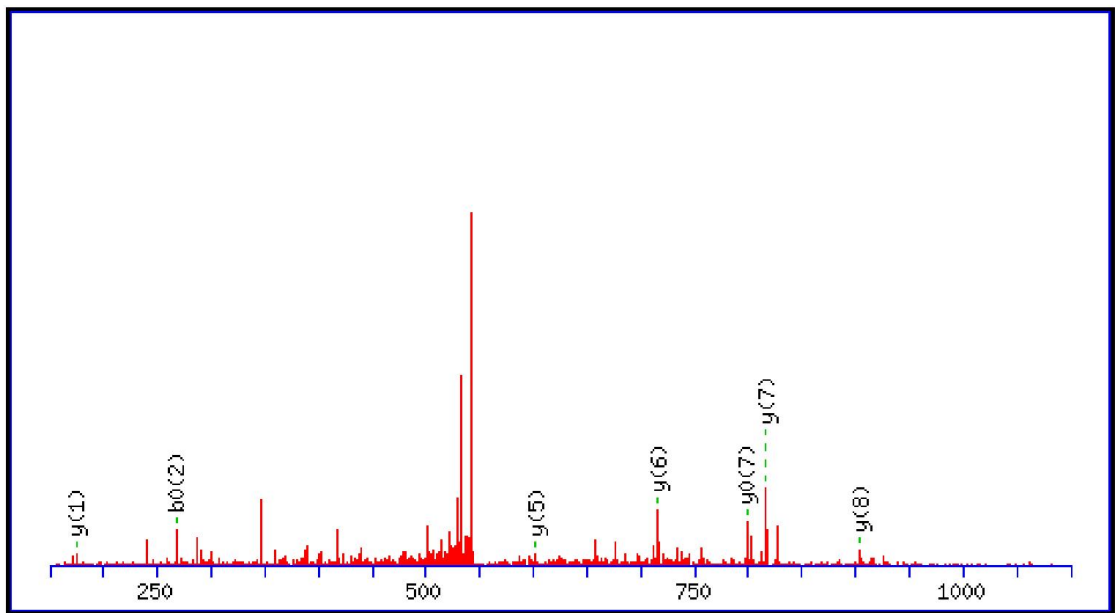
Title: File1311 Spectrum4155 scans: 4607

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1100.6190

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

Variable modifications:

K1 : Propionyl-Methylation (K)

Ions Score: 21 **Expect:** 5.4

Matches : 7/90 fragment ions using 20 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	99.1441	100.0757	182.1176	91.5624			K							9
2	236.1761	143.5917	269.1496	135.0784	268.1656	134.5864	S	903.4894	452.2483	886.4629	443.7351	885.4789	443.2431	8
3	387.2238	194.1155	370.1973	185.6023	369.2132	185.1103	T	816.4574	408.7323	799.4308	400.2191	798.4468	399.7271	7
4	500.3079	250.6576	483.2813	242.1443	482.2973	241.6523	L	715.4097	358.2085	698.3832	349.6952	697.3992	349.2032	6
5	601.3556	301.1814	584.3290	292.6681	583.3450	292.1761	T	602.3257	301.6665	585.2991	293.1532	584.3151	292.6612	5
6	698.4083	349.7078	681.3818	341.1945	680.3978	340.7025	P	501.2780	251.1426	484.2514	242.6293	483.2674	242.1373	4
7	799.4560	400.2316	782.4294	391.7184	781.4454	391.2264	T	404.2252	202.6162	387.1987	194.1030	386.2146	193.6110	3
8	927.5146	464.2609	910.4880	455.7477	909.5040	455.2556	Q	308.1775	152.0924	286.1510	143.5791			2
9							R	175.1190	88.0631	158.0924	79.5498			1

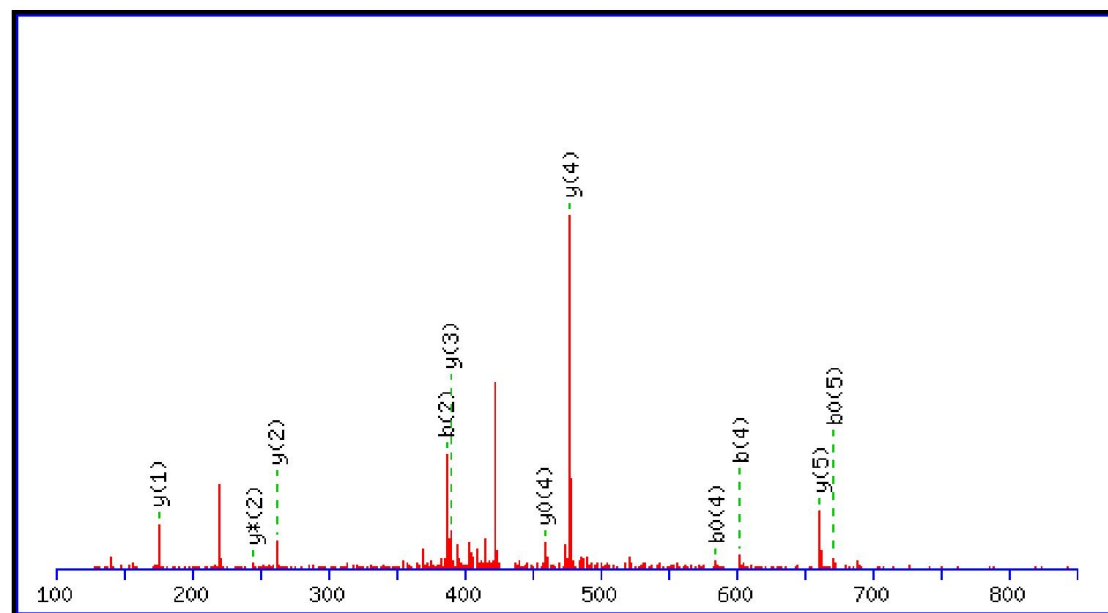
Found in **P46087**, Putative ribosomal RNA methyltransferase NOP2 OS=Homo sapiens GN=NOP2 PE=1 SV=2

Match to Query 1201: 862.515288 from(432.264920, 2+) intensity(318835.0938)

Title: File1311 Spectrum1450 scans: 1782

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 862.5145**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**K2** : Propionyl (K)**Ions Score:** 31 **Expect:** 0.3**Matches** : 11/54 fragment ions using 22 mo

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							6
2	387.2875	194.1474	370.2609	185.6341			K	661.3628	331.1850	644.3362	322.6717	643.3522	322.1797	5
3	474.3195	237.6634	457.2929	229.1501	456.3089	228.6581	S	477.2416	239.1244	460.2150	230.6112	459.2310	230.1191	4
4	602.3781	301.6927	585.3515	293.1794	584.3675	292.6874	Q	390.2096	195.6084	373.1830	187.0951	372.1990	186.6031	3
5	689.4101	345.2087	672.3836	336.6954	671.3995	336.2034	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
6							R	175.1190	88.0631	158.0924	79.5498			1

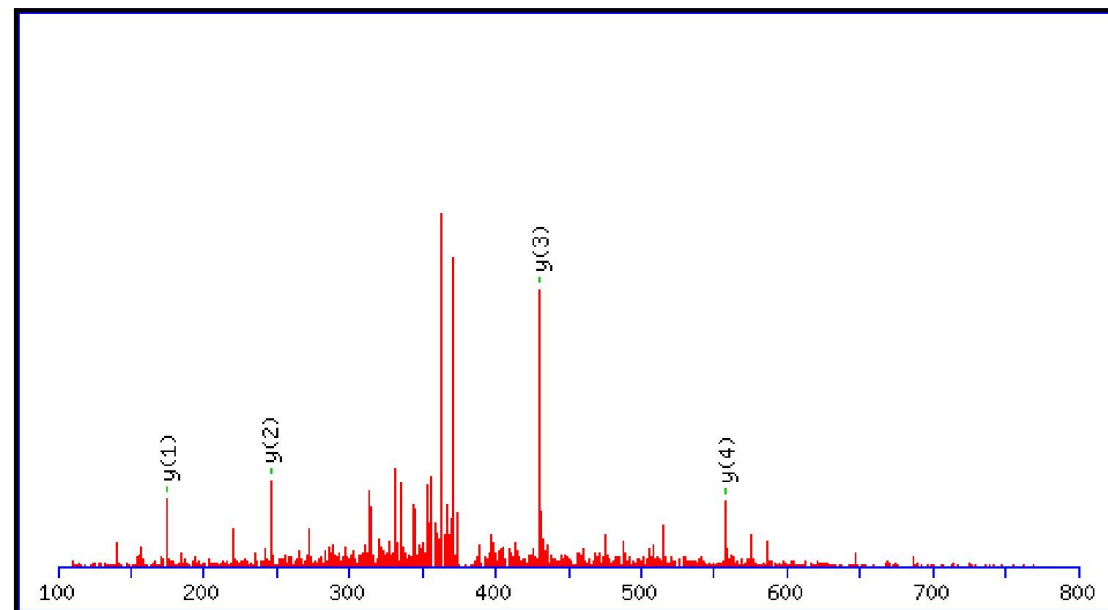
MS/MS Fragmentation of **KQKAR**Found in **P46087**, Putative ribosomal RNA methyltransferase NOP2 OS=Homo sapiens GN=NOP2 PE=1 SV=2

Match to Query 285: 759.487408 from(380.750980,2+) intensity(71655.5703)

Title: File1311 Spectrum2638 scans: 3025

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 759.4875**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**K3** : Propionyl (K)**Ions Score:** 28 **Expect:** 0.29**Matches** : 4/32 fragment ions using 7 most in

#	b	b ⁺⁺	b [*]	b ^{*++}	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
1	203.1663	102.0868	186.1397	93.5735	K					5
2	331.2249	166.1161	314.1983	157.6028	Q	558.3358	279.6715	541.3093	271.1583	4
3	515.3460	258.1767	498.3195	249.6634	K	430.2772	215.6423	413.2507	207.1290	3
4	586.3832	293.6952	569.3566	285.1819	A	246.1561	123.5817	229.1295	115.0684	2
5					R	175.1190	88.0631	158.0924	79.5498	1

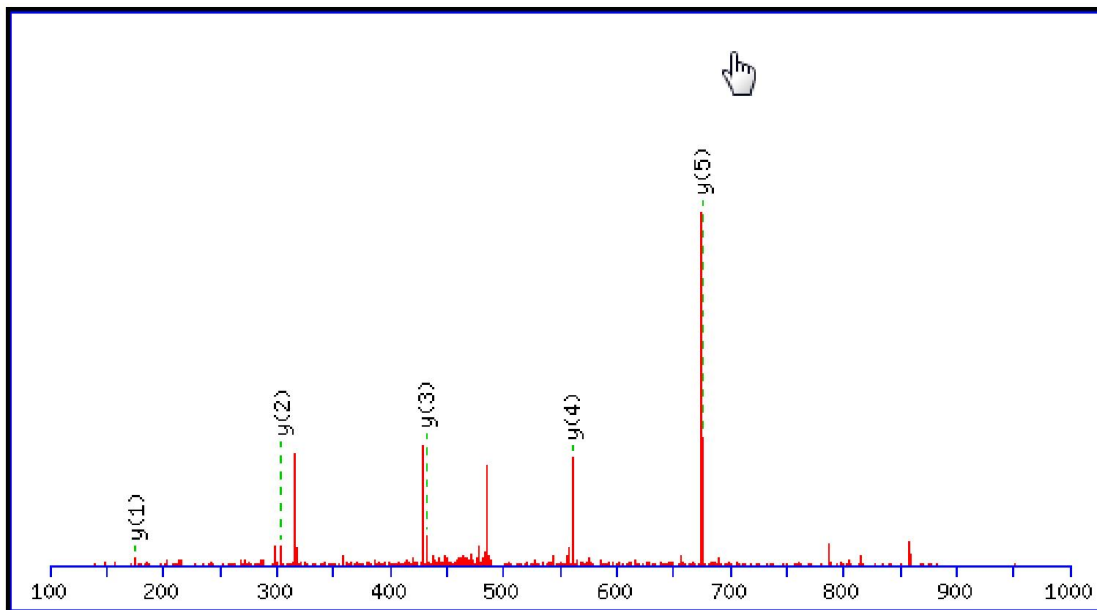
Found in **Q68DK7-2**, Isoform 2 of Male-specific lethal 1 homolog OS=Homo sapiens GN=MSL1

Match to Query 2647: 988.501988 from(495.258270, 2+) intensity(927665.1875)

Title: File1311 Spectrum5755 scans: 6274

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 987.4985**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-Methylation (K)**Ions Score:** 21 **Expect:** 2.4**Matches** : 5/68 fragment ions using 17 most intense

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624			K							7
2	314.1710	157.5892	297.1445	149.0759	296.1605	148.5839	D	790.3690	395.6881	773.3424	387.1748	772.3584	386.6828	6
3	428.2140	214.6106	411.1874	206.0974	410.2034	205.6053	N	675.3420	338.1747	658.3155	329.6614	657.3315	329.1694	5
4	557.2566	279.1319	540.2300	270.6186	539.2460	270.1266	E	561.2991	281.1532	544.2726	272.6399	543.2885	272.1479	4
5	685.3515	343.1794	668.3250	334.6661	667.3410	334.1741	K	432.2565	216.6319	415.2300	208.1186	414.2459	207.6266	3
6	814.3941	407.7007	797.3676	399.1874	796.3836	398.6954	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
7							R	175.1190	88.0631	158.0924	79.5498			1

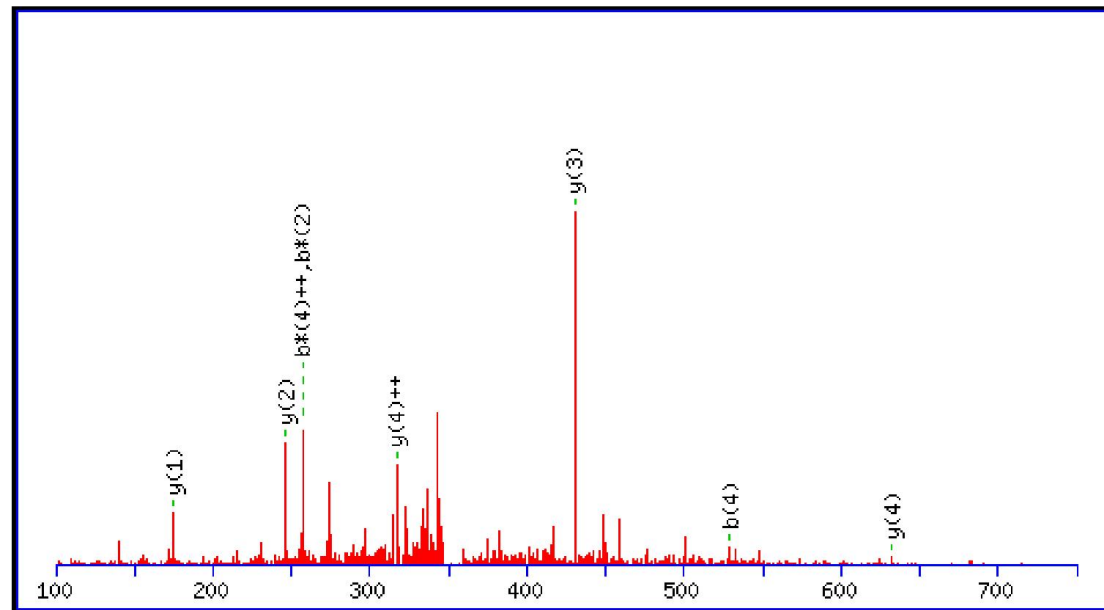
MS/MS Fragmentation of **AKKAR**Found in **B5MCF9**, Pescadillo homolog OS=Homo sapiens GN=PES1 PE=2 SV=1

Match to Query 29: 702.465668 from(352.240110, 2+) intensity(65698.5938)

Title: File1311 Spectrum2611 scans: 2997

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 702.4661**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-(13CD3)Methyl (K)**K3** : Propionyl (K)**Ions Score:** 22 **Expect:** 0.81**Matches** : 8/30 fragment ions using 12 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	72.0444	36.5258			A					5
2	274.2034	137.6053	257.1769	129.0921	K	632.4363	316.7218	615.4097	308.2085	4
3	458.3246	229.6659	441.2980	221.1527	K	430.2772	215.6423	413.2507	207.1290	3
4	529.3617	265.1845	512.3351	256.6712	A	246.1567	123.5817	229.1295	115.0684	2
5					R	175.1190	88.0631	158.0924	79.5498	1

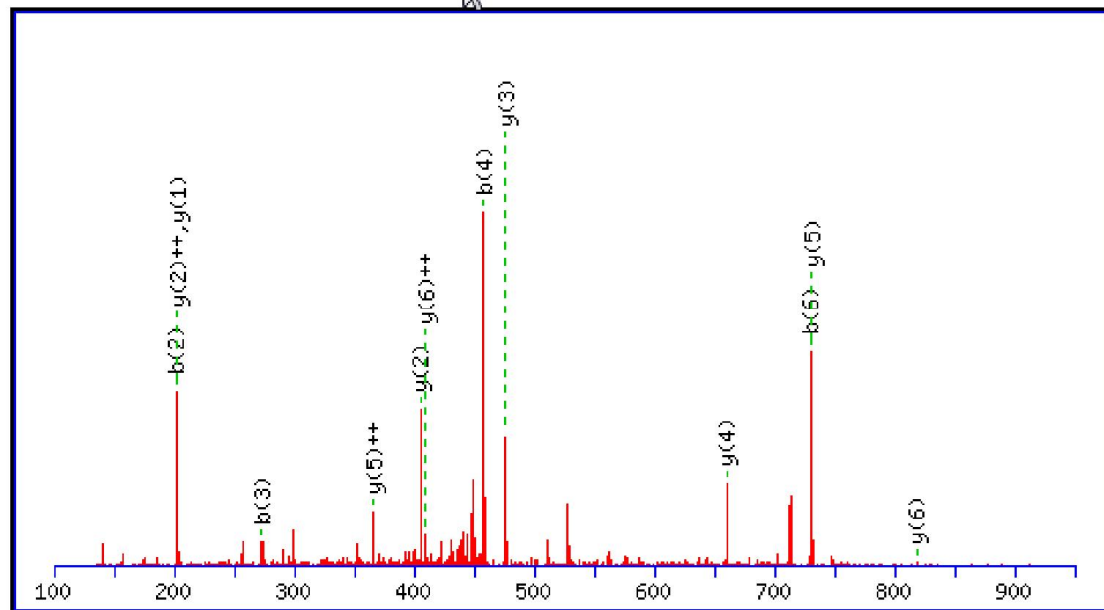
MS/MS Fragmentation of **NSAKAKK**Found in **A6NNR3**, Serine/threonine-protein phosphatase OS=Homo sapiens GN=PPP1CA PE=2 SV=1

Match to Query 1949: 931.560828 from(466.787690, 2+) intensity(160904.4219)

Title: File1311 Spectrum7804 scans: 8408

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 931.5611**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K4** : Propionyl (K)**K6** : Propionyl-(13CD3)Methyl (K)**K7** : Propionyl (K)**Ions Score:** 39 **Expect:** 0.05**Matches** : 13/60 fragment ions using 24 most inter

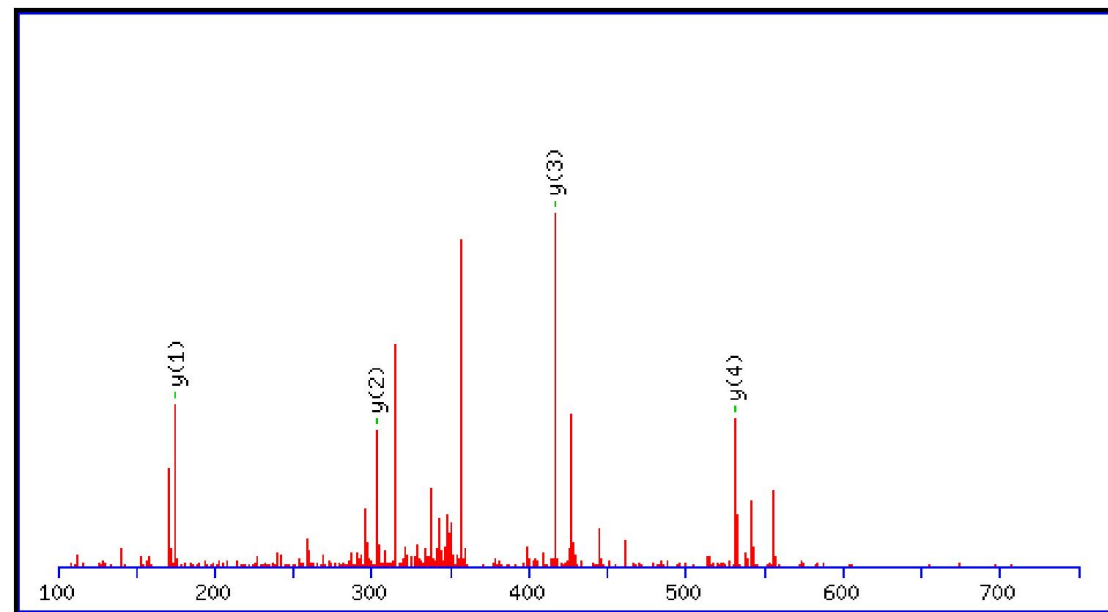
#	b	b ⁺⁺	b ⁺	b ⁺ ++	b ⁰	b ⁰ ++	Seq.	y	y ⁺⁺	y ⁺	y ⁺ ++	y ⁰	y ⁰ ++	#
1	115.0502	58.0287	98.0237	49.5155			N							7
2	202.0822	101.5448	185.0557	93.0315	184.0717	92.5395	S	818.5255	409.7664	801.4989	401.2531	800.5149	400.7611	6
3	273.1193	137.0633	256.0928	128.5500	255.1088	128.0580	A	731.4934	366.2504	714.4669	357.7371			5
4	457.2405	229.1239	440.2140	220.6106	439.2300	220.1186	K	660.4563	330.7318	643.4298	322.2185			4
5	528.2776	264.6425	511.2511	256.1292	510.2671	255.6372	A	476.3351	238.6712	459.3086	230.1579			3
6	730.4366	365.7220	713.4101	357.2087	712.4261	356.7167	K	405.2980	203.1527	388.2715	194.6394			2
7							K	203.1390	102.0731	186.1125	93.5599			1

Match to Query 130: 728.418988 from(365.216770, 2+) intensity(793862.6875)
 Title: File1311 Spectrum4050 scans: 4498
 Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 728.4181

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

Variable modifications:

K1 : Propionyl-Methylation (K)

Ions Score: 36 **Expect:** 0.11

Matches : 4/40 fragment ions usir

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624			K							5
2	314.1710	157.5892	297.1445	149.0759	296.1605	148.5839	D	531.2885	266.1479	514.2620	257.6346	513.2780	257.1426	4
3	427.2551	214.1312	410.2286	205.6179	409.2445	205.1259	I	416.2616	208.6344	399.2350	200.1212			3
4	555.3137	278.1605	538.2871	269.6472	537.3031	269.1552	Q	303.1775	152.0924	286.1510	143.5791			2
5							R	175.1190	88.0631	158.0924	79.5498			1

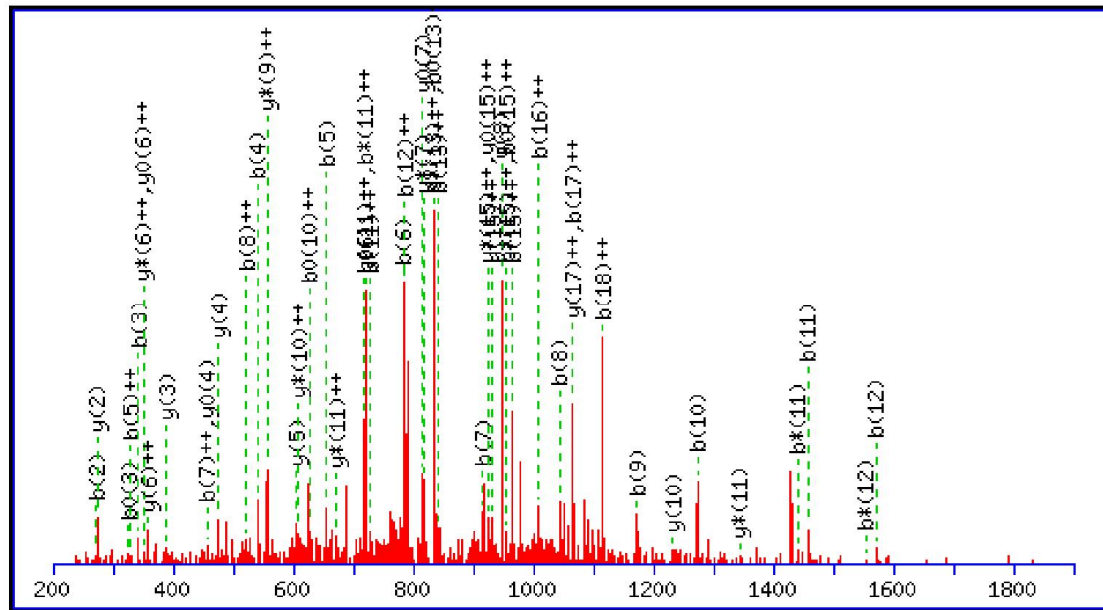
Found in **G3V4E5**, Disks large-associated protein 5 (Fragment) OS=Homo sapiens GN=DLGAP5 PE=2 SV=1

Match to Query 14904: 2403.162012 from(802.061280, 3+) intensity(108761.6719)

Title: File1311 Spectrum12906 scans: 13723

Data file: I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 2403.1587****Fixed modifications:** Carbamidomethyl (C) (apply to specified residues)**Variable modifications:****K2** : Propionyl (K)**K4** : Propionyl-Methylation (K)**K11** : Propionyl (K)**Ions Score:** 45 **Expect:** 0.028**Matches** : 53/210 fragment ions using 116 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							19
2	272.1605	136.5839	255.1339	128.0706	254.1499	127.5786	K	2317.1340	1159.0706	2300.1075	1150.5574	2299.1235	1150.0654	18
3	343.1976	172.1024	326.1710	163.5892	325.1870	163.0972	A	2133.0128	1067.0101	2115.9863	1058.4968	2115.0023	1058.0048	17
4	541.3344	271.1709	524.3079	262.6576	523.3239	262.1656	K	2061.9757	1031.4915	2044.9492	1022.9782	2043.9652	1022.4862	16
5	656.3614	328.6843	639.3348	320.1710	638.3508	319.6790	D	1863.8389	952.4231	1846.8123	923.9098	1845.8283	923.4178	15
6	794.4199	392.7136	767.3934	384.2003	766.4094	383.7083	Q	1748.8120	874.9096	1731.7854	866.3963	1730.8014	865.9043	14
7	915.4604	458.2339	898.4339	449.7206	897.4499	449.2286	I	1620.7534	810.3803	1603.7268	802.3871	1602.7428	801.9750	13
8	1044.5030	522.7562	1027.4765	514.2419	1026.4925	513.7499	E	1489.7129	745.3601	1472.6863	736.8468	1471.7023	736.3548	12
9	1172.5616	586.7844	1155.5351	578.2712	1154.5510	577.7792	Q	1360.6703	680.3388	1343.6438	672.3255	1342.6597	671.8335	11
10	1273.6093	637.3083	1256.5827	628.7950	1255.5987	628.3030	T	1232.6117	616.3095	1215.5852	608.2962	1214.6012	607.3042	10
11	1457.7305	729.3689	1440.7039	720.8556	1439.7199	720.3636	K	1131.5640	566.2857	1114.5375	557.7724	1113.5535	557.2804	9
12	1570.8145	785.9109	1553.7880	777.3976	1552.8040	776.9056	I	947.4429	474.2251	930.4163	465.7118	929.4323	465.2198	8
13	1685.8415	843.4244	1668.8149	834.9111	1667.8309	834.4191	D	834.3588	417.6830	817.3323	409.1698	816.3482	408.6778	7
14	1799.8844	900.4458	1782.8578	891.9326	1781.8738	891.4406	N	719.3319	360.1696	702.3053	351.6563	701.3213	351.1643	6
15	1928.9270	964.9672	1911.9004	956.4539	1910.9164	955.9619	E	605.2889	303.1481	588.2624	294.6348	587.2704	294.1428	5
16	2015.9690	1008.4832	1998.9325	999.9699	1997.9484	999.4779	S	476.2463	238.6268	459.2198	230.1135	458.2368	229.6215	4
17	2130.9860	1065.9966	2113.9594	1057.4833	2112.9754	1056.9913	D	389.2143	195.1108	372.1878	186.5975	371.2037	186.1055	3
18	2230.0544	1115.5308	2213.0278	1107.0175	2212.0438	1106.5255	V	274.1874	137.5973	257.1608	129.0840			2
19							R	175.1190	88.0631	158.0924	79.5493			1

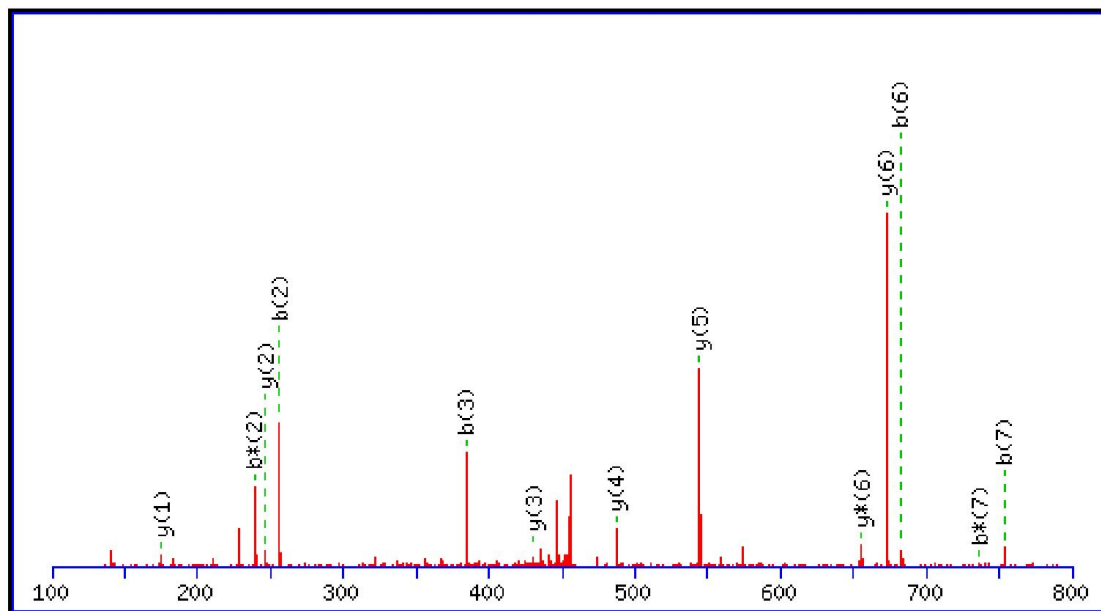
Found in **POCOS8**, Histone H2A type 1 OS=Homo sapiens GN=HIST1H2AG PE=1 SV=2

Match to Query 1871: 926.529448 from(464.272000, 2+) intensity(1713716.2500)

Title: File1311 Spectrum2889 scans: 3287

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 926.5298**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or**Variable modifications:****K2** : Propionyl-Methylation (K)**K6** : Propionyl (K)**Ions Score:** 40 **Expect:** 0.038**Matches** : 13/54 fragment ions using 28 most intense peaks ([help](#))

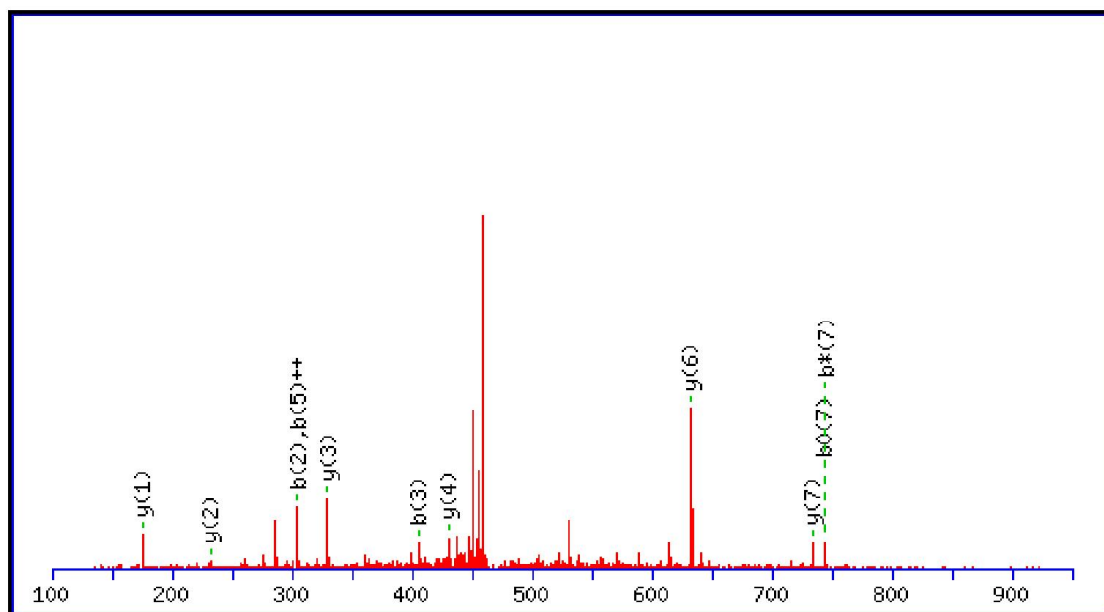
#	b	b ⁺⁺	b*	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	#
1	58.0287	29.5180			G					8
2	256.1656	128.5864	239.1390	120.0731	K	870.5156	435.7614	853.4890	427.2482	7
3	384.2241	192.6157	367.1976	184.1024	Q	672.3788	336.6930	655.3522	328.1797	6
4	441.2456	221.1264	424.2191	212.6132	G	544.3202	272.6637	527.2936	264.1504	5
5	498.2671	249.6372	481.2405	241.1239	G	487.2987	244.1530	470.2722	235.6397	4
6	682.3883	341.6978	665.3617	333.1845	K	430.2772	215.6423	413.2507	207.1290	3
7	753.4254	377.2163	736.3988	368.7030	A	246.1561	123.5817	229.1295	115.0684	2
8					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 2003: 934.534268 from(468.274410, 2+) intensity(141504.0938)

Title: File1311 Spectrum2562 scans: 2946

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc)**: 934.5356

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 51 Expect: 0.0037

Matches : 11/76 fragment ions using 16 most intense

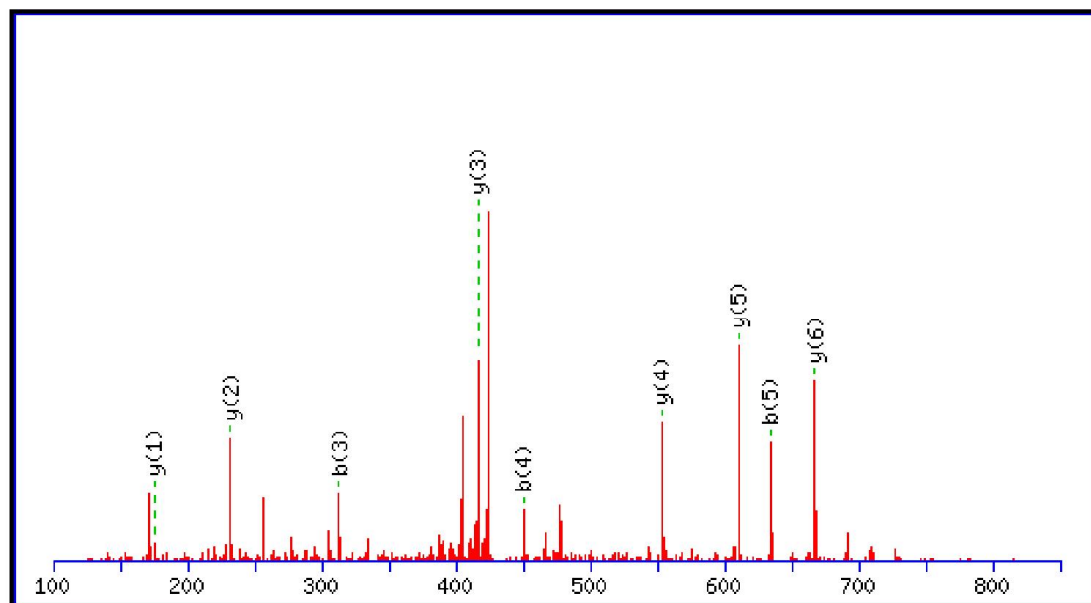
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							8
2	304.2140	152.6106	287.1874	144.0973	286.2034	143.6053	T	733.3839	367.1956	716.3573	358.6823	715.3733	358.1903	7
3	405.2616	203.1345	388.2351	194.6212	387.2511	194.1292	T	632.3362	316.6717	615.3097	308.1585	614.3257	307.6665	6
4	506.3093	253.6583	489.2828	245.1450	488.2988	244.6530	T	531.2885	266.1479	514.2620	257.6346	513.2780	257.1426	5
5	607.3570	304.1821	590.3305	295.6689	589.3464	295.1769	T	430.2409	215.6241	413.2143	207.1108	412.2303	206.6188	4
6	704.4098	352.7085	687.3832	344.1952	686.3992	343.7032	P	329.1932	165.1002	312.1666	156.5870			3
7	761.4312	381.2193	744.4047	372.7060	743.4207	372.2140	G	232.1404	116.5738	215.1139	108.0606			2
8							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 1216: 864.494108 from(433.254330,2+) intensity(315867.2188)

Title: File1311 Spectrum1354 scans: 1681

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 864.4930**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-Methylation (K)**K5** : Propionyl (K)**Ions Score:** 52 **Expect:** 0.0024**Matches** : 9/48 fragment ions using 14 most intense peaks

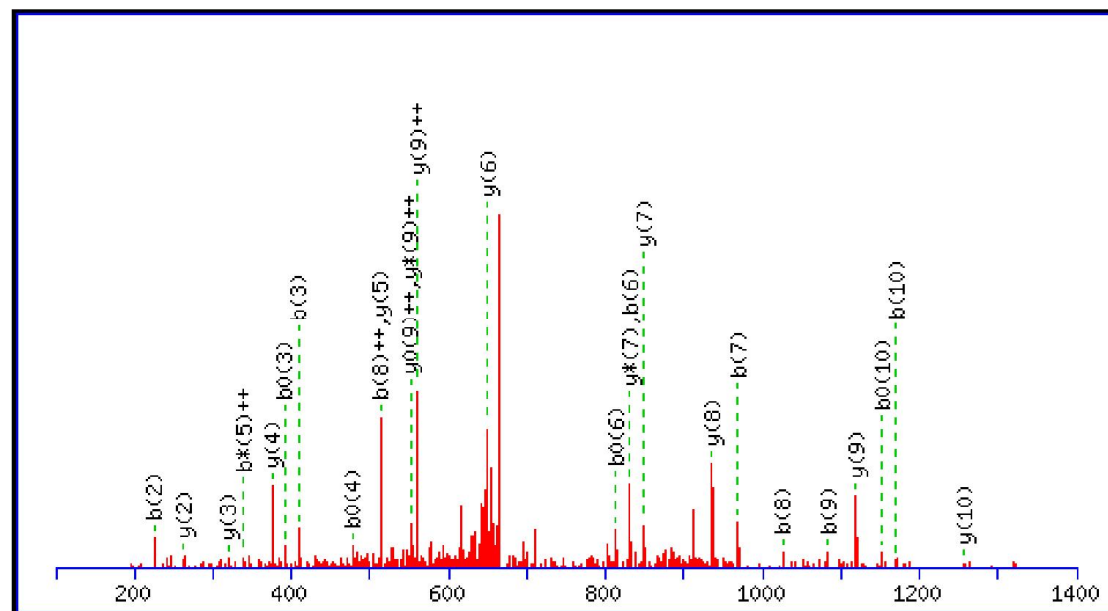
#	b	b ⁺⁺	b*	b* ⁺⁺	Seq.	y	y ⁺⁺	y*	y* ⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624	K					7
2	256.1656	128.5864	239.1390	120.0731	G	667.3634	334.1854	650.3369	325.6721	6
3	313.1870	157.0972	296.1605	148.5839	G	610.3420	305.6746	593.3154	297.1613	5
4	450.2459	225.6266	433.2194	217.1133	H	553.3205	277.1639	536.2940	268.6506	4
5	634.3671	317.6872	617.3406	309.1739	K	416.2616	208.6344	399.2350	200.1212	3
6	691.3886	346.1979	674.3620	337.6847	G	232.1404	116.5738	215.1139	108.0606	2
7					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 6642: 1342.686248 from(672.350400, 2+) intensity(15790.3203)

Title: File1311 Spectrum243 scans: 465

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to DaLabel all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1342.6854

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

Variable modifications:

K3 : Propionyl (K)**K5** : Propionyl-Methylation (K)

Ions Score: 45 Expect: 0.019

Matches : 26/114 fragment ions using 56 most intense pe

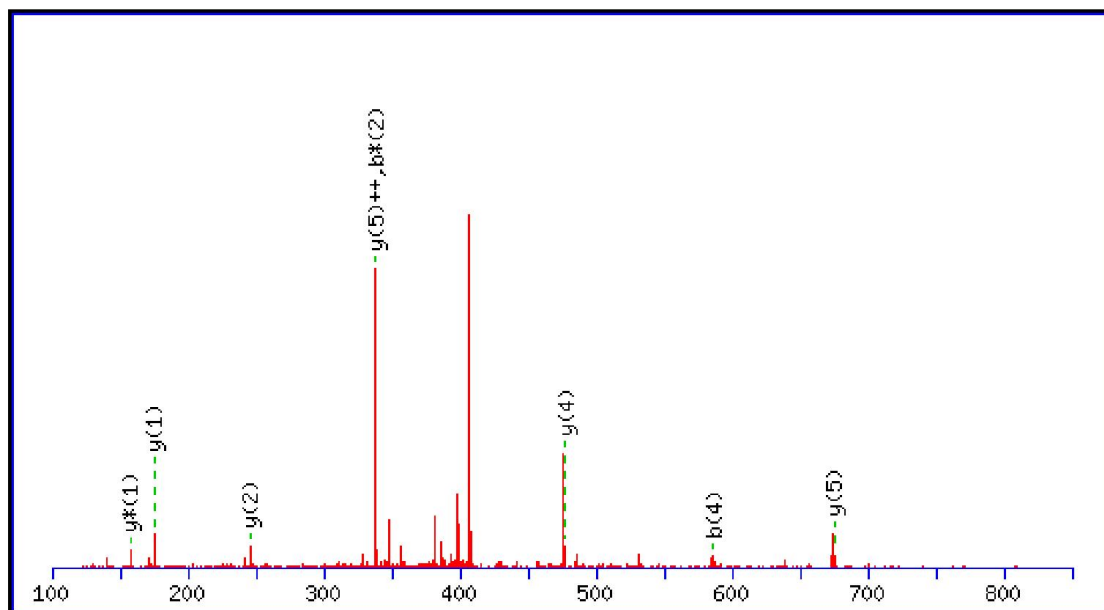
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							11
2	225.0982	113.0527			207.0877	104.0475	H	1256.6607	628.8340	1239.6341	620.3207	1238.6501	619.8287	10
3	409.2194	205.1133	392.1923	196.6001	391.2083	196.1081	K	1119.6018	560.3045	1102.5752	551.7912	1101.5912	551.2992	9
4	496.2514	248.6293	479.2249	240.1161	478.2409	239.6241	S	935.4806	468.2439	918.4540	459.7307	917.4700	459.2386	8
5	694.3883	347.6978	677.3617	339.1845	676.3777	338.6925	K	848.4486	424.7279	831.4220	416.2146	830.4380	415.7226	7
6	831.4472	416.2272	814.4206	407.7139	813.4366	407.2219	H	650.3117	325.6595	633.2852	317.1462	632.3012	316.6542	6
7	968.5061	484.7567	951.4795	476.2434	950.4955	475.7514	H	513.2528	257.1300	496.2263	248.6168	495.2423	248.1248	5
8	1025.5275	513.2674	1008.5010	504.7541	1007.5170	504.2621	G	376.1939	188.6006	359.1674	180.0873	358.1833	179.5953	4
9	1082.5490	541.7781	1065.5225	533.2649	1064.5384	532.7729	G	319.1724	160.0899	302.1459	151.5766	301.1619	151.0846	3
10	1169.5810	585.2942	1152.5545	576.7809	1151.5705	576.2889	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
11							R	175.1190	88.0631	158.0924	79.5498			

Match to Query 859: 830.449928 from(416.232240, 2+) intensity(344523.0938)

Title: File1311 Spectrum6331 scans: 6874

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 830.4545**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-Methylation (K)**Ions Score:** 21 **Expect:** 4.5**Matches** : 8/40 fragment ions using 14 most intense peaks

#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	157.1084	79.0578	140.0818	70.5446	R					6
2	338.2452	178.1262	338.2187	169.6130	K	675.3607	338.1840	658.3341	329.6707	5
3	515.2759	258.1416	498.2493	249.6283	C	477.2238	239.1156	460.1973	230.6023	4
4	586.3130	293.6601	569.2864	285.1469	A	317.1932	159.1002	300.1666	150.5870	3
5	657.3501	329.1787	640.3235	320.6654	A	246.1561	123.5817	229.1295	115.0684	2
6					R	175.1190	88.0631	158.0924	79.5498	1

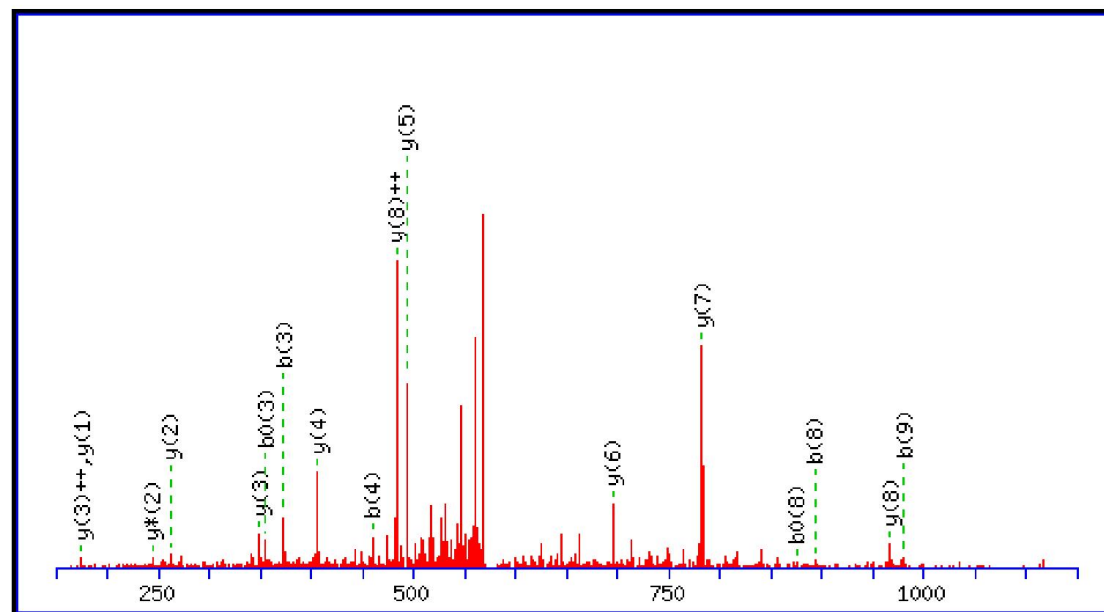
MS/MS Fragmentation of **TSKSKGSSR**Found in **B1AL79**, Protein kinase N2, isoform CRA_b OS=Homo sapiens GN=PKN2 PE=2 SV=1

Match to Query 4816: 1153.621548 from(577.818050, 2+) intensity(137975.8750)

Title: File1311 Spectrum3077 scans: 3482

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1153.6211**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K3** : Propionyl (K)**K5** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 59 **Expect:** 0.0006**Matches** : 17/102 fragment ions using 30 most intense

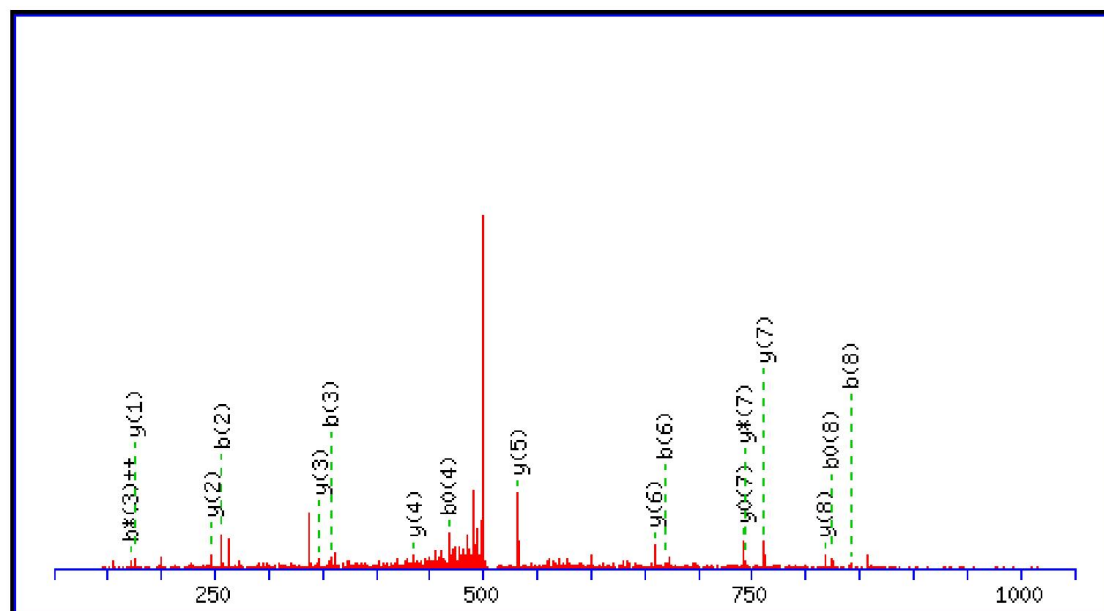
#	b	b ⁺⁺	b ⁺	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T							10
2	189.0870	95.0471			171.0764	86.0418	S	1053.5807	527.2940	1036.5542	518.7807	1035.5702	518.2887	9
3	373.2082	187.1077	356.1816	178.5944	355.1976	178.1024	K	966.5487	483.7780	949.5222	475.2647	948.5382	474.7727	8
4	460.2402	230.6237	443.2136	222.1105	442.2296	221.6184	S	782.4275	391.7174	765.4010	383.2041	764.4170	382.7121	7
5	662.3992	331.7032	645.3727	323.1900	644.3886	322.6980	K	695.3955	348.2014	678.3690	339.6881	677.3849	339.1961	6
6	749.4312	375.2193	732.4047	366.7060	731.4207	366.2140	S	493.2365	247.1219	476.2100	238.6086	475.2259	238.1166	5
7	806.4527	403.7300	789.4261	395.2167	788.4421	394.7247	G	406.2045	203.6059	389.1779	195.0926	388.1939	194.6006	4
8	893.4847	447.2460	876.4582	438.7327	875.4742	438.2407	S	349.1830	175.0951	332.1565	166.5819	331.1724	166.0899	3
9	980.5167	490.7620	963.4902	482.2487	962.5062	481.7567	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
10							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 4007: 1014.545928 from(508.280240, 2+) intensity(68414.4844)

Title: File1326 Spectrum2732 scans: 3071

Data file I:\2013-9-13-Hela-Prometh-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1014.5458**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-Methylation (K)**Ions Score:** 38 **Expect:** 0.074**Matches** : 17/88 fragment ions using 54 most intens

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624			K							9
2	256.1656	128.5864	239.1390	120.0731			G	817.4163	409.2118	800.3897	400.6985	799.4057	400.2065	8
3	357.2132	179.1103	340.1867	170.5970	339.2027	170.1050	T	760.3948	380.7010	743.3682	372.1878	742.3842	371.6958	7
4	485.2718	243.1396	468.2453	234.6263	467.2613	234.1343	Q	659.3471	330.1772	642.3206	321.6639	641.3365	321.1719	6
5	582.3246	291.6659	565.2980	283.1527	564.3140	282.6607	P	531.2885	266.1479	514.2620	257.6346	513.2780	257.1426	5
6	669.3566	335.1819	652.3301	326.6687	651.3461	326.1767	S	434.2358	217.6215	417.2092	209.1083	416.2252	208.6162	4
7	770.4043	385.7058	753.3777	377.1925	752.3937	376.7005	I	347.2037	174.1055	330.1772	165.5922	329.1932	165.1002	3
8	841.4414	421.2243	824.4149	412.7111	823.4308	412.2191	A	246.1561	123.5817	229.1295	115.0684			2
9							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 1997: 889.490628 from(445.752590, 2+) intensity(101574.2188)

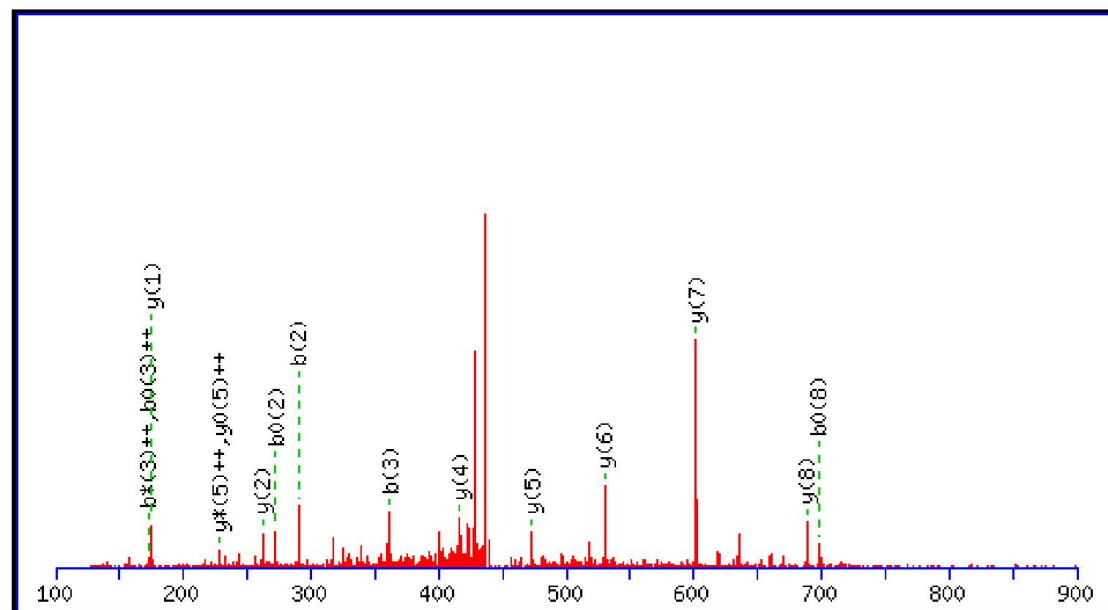
Title: File1326 Spectrum2044 scans: 2353

Data file I:\2013-9-13-Hela-Prometh-Fr6-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 889.4890

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 47 **Expect: 0.0081**

Matches : 15/92 fragment ions using 32 most intense peaks

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							9
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	S	688.3373	344.6723	671.3107	336.1590	670.3267	335.6670	8
3	361.2354	181.1214	344.2089	172.6081	343.2249	172.1161	A	601.3053	301.1563	584.2787	292.6430	583.2947	292.1510	7
4	418.2569	209.6321	401.2303	201.1188	400.2463	200.6268	G	530.2687	265.6377	513.2416	257.1244	512.2576	256.6324	6
5	475.2784	238.1428	458.2518	229.6295	457.2678	229.1375	G	473.2467	237.1270	456.2201	228.6137	455.2361	228.1217	5
6	532.2998	266.6535	515.2733	258.1403	514.2893	257.6483	G	416.2252	208.6162	399.1987	200.1030	398.2146	199.6110	4
7	629.3526	315.1799	612.3260	306.6667	611.3420	306.1746	P	359.2037	180.1055	342.1772	171.5922	341.1932	171.1002	3
8	716.3846	358.6959	699.3581	350.1827	698.3741	349.6907	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
9							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **KAAGQDMR**Found in **P82970**, High mobility group nucleosome-binding domain-containing protein 5 OS=Homo sapiens GN=HMGN5 PE=1 SV=1

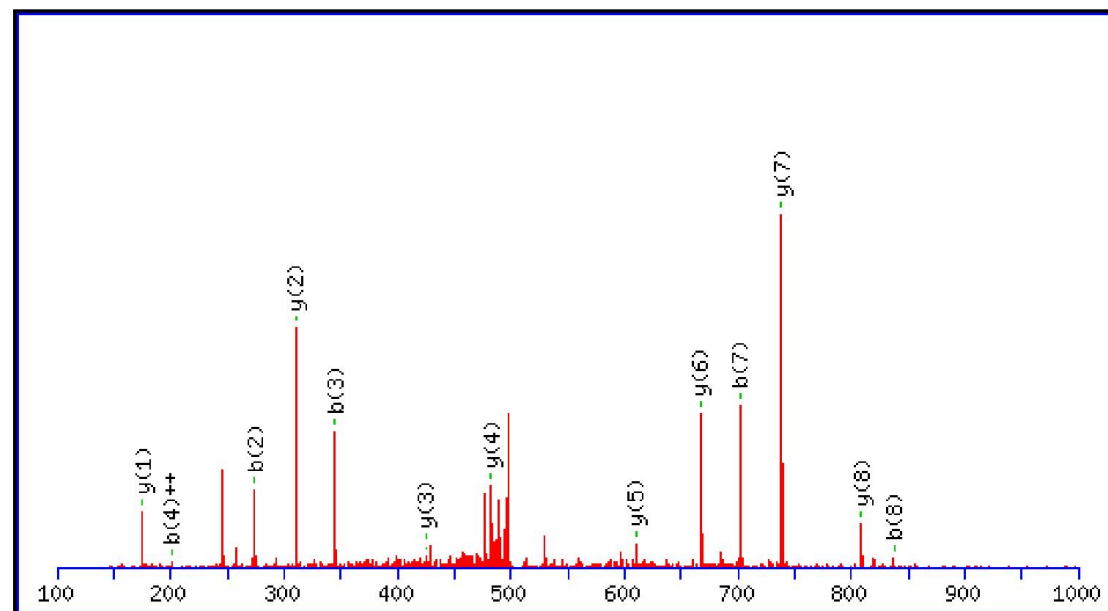
Match to Query 3933: 1010.535248 from(506.274900, 2+) intensity(249056.6719)

216

Title: File1326 Spectrum3692 scans: 4072

Data file I:\2013-9-13-Hela-Prometh-Fr6\ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1010.5360**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**M8** : Label:13C(1)2H(3) (M)**Ions Score:** 55 **Expect:** 0.0012**Matches** : 13/80 fragment ions using 27 most intens

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							9
2	274.2034	137.6053	257.1769	129.0921			A	809.3843	405.1958	792.3578	396.6825	791.3737	396.1905	8
3	345.2405	173.1239	328.2140	164.6106			A	738.3472	369.6772	721.3206	361.1640	720.3366	360.6719	7
4	402.2620	201.6346	385.2354	193.4214			G	667.3101	334.1587	650.2835	325.6454	649.2995	325.1534	6
5	530.3206	265.6639	513.2940	257.1506			Q	610.2886	305.6479	593.2621	297.1347	592.2780	296.6427	5
6	587.3420	294.1746	570.3155	285.6614			G	482.2300	241.6187	465.2035	233.1054	464.2195	232.6134	4
7	702.3690	351.6881	685.3424	343.1748	684.3584	342.6828	D	425.2086	213.1079	408.1820	204.5946	407.1980	204.1026	3
8	837.4316	419.2195	820.4051	410.7062	819.4211	410.2142	M	310.1816	155.5944	293.1551	147.0812			2
9							R	175.1190	88.0631	158.0924	79.5498			1

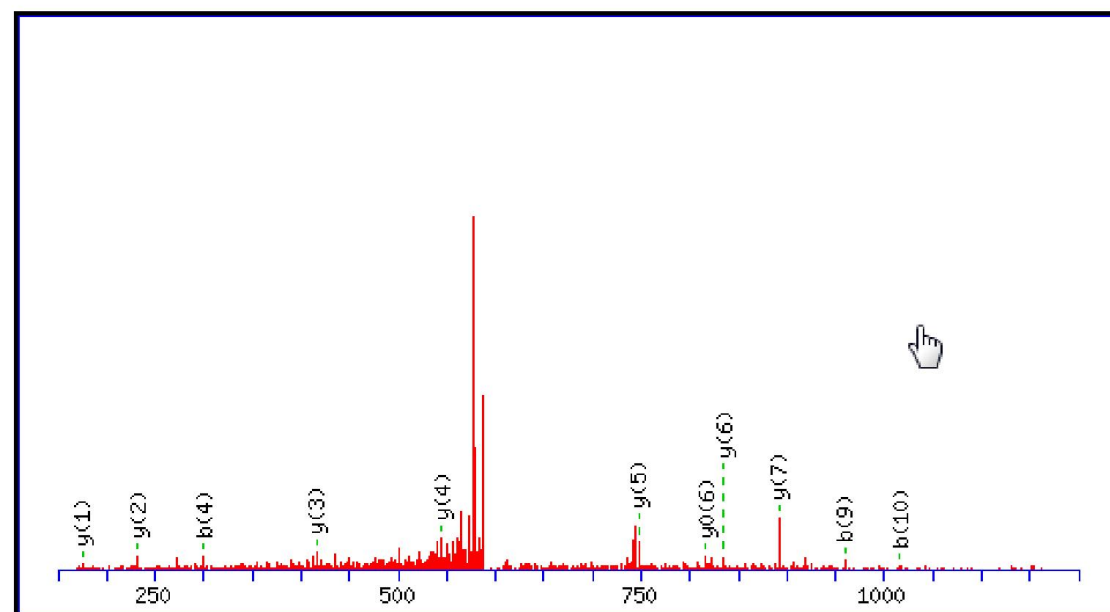
Found in **Q7L2J0**, 7SK snRNA methylphosphate capping enzyme OS=Homo sapiens GN=MEPCE PE=1 SV=1

Match to Query 6867: 1189.629368 from(595.821960, 2+) intensity(22659.0156)

Title: File1326 Spectrum4117 scans: 4514

Data file I:\2013-9-13-Hela-Prometh-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1189.6324**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K7** : Propionyl-(13CD3)Methyl (K)**K9** : Propionyl (K)**Ions Score:** 30 **Expect:** 0.58**Matches** : 11/98 fragment ions using 40 most intense peaks

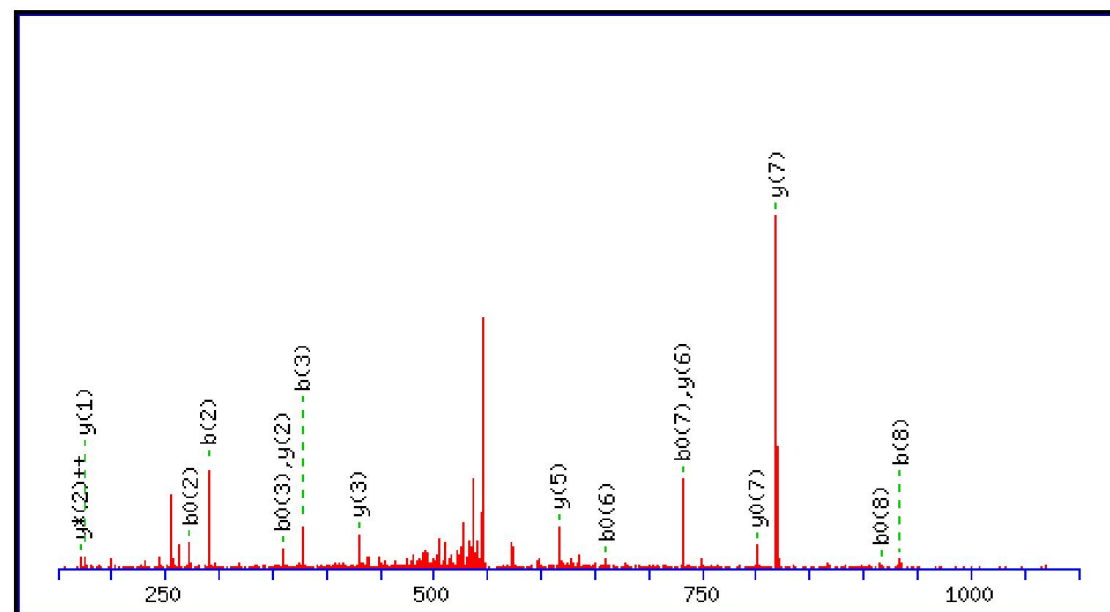
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							11
2	115.0502	58.0287					G	1183.6182	567.3127	1116.5916	558.7995	1115.6076	558.3075	10
3	172.0717	86.5395					G	1076.5967	538.8020	1059.5702	530.2887	1058.5862	529.7967	9
4	300.1302	150.5688	283.1037	142.0555			Q	1019.5753	510.2913	1002.5487	501.7780	1001.5647	501.2860	8
5	357.1517	179.0795	340.1252	170.5662			G	891.5167	446.2620	874.4901	437.7487	873.5061	437.2567	7
6	444.1837	222.5955	427.1572	214.0822	426.1732	213.5902	S	834.4952	417.7513	817.4687	409.2380	816.4847	408.7460	6
7	646.3428	323.6750	629.3162	315.1617	628.3322	314.6697	K	747.4632	374.2352	730.4367	365.7220	729.4526	365.2300	5
8	775.3853	388.1963	758.3588	379.6830	757.3748	379.1910	E	545.3042	273.1557	528.2776	264.6425	527.2936	264.1504	4
9	959.5065	480.2569	942.4800	471.7436	941.4960	471.2516	K	416.2616	208.6344	399.2350	200.1212			3
10	1016.5280	508.7676	999.5014	500.2544	998.5174	499.7623	G	232.1404	116.5738	215.1139	108.0606			2
11							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 3854: 1106.582868 from(554.298710, 2+) intensity(186624.3281)
 Title: File1261 Spectrum4076 scans: 4945
 Data file I:\2013-9-5-Hela-Prometh-Fr5-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1106.5840

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K8 : Propionyl (K)

Ions Score: 35 **Expect:** 0.18

Matches : 16/88 fragment ions using 30 most intense peaks

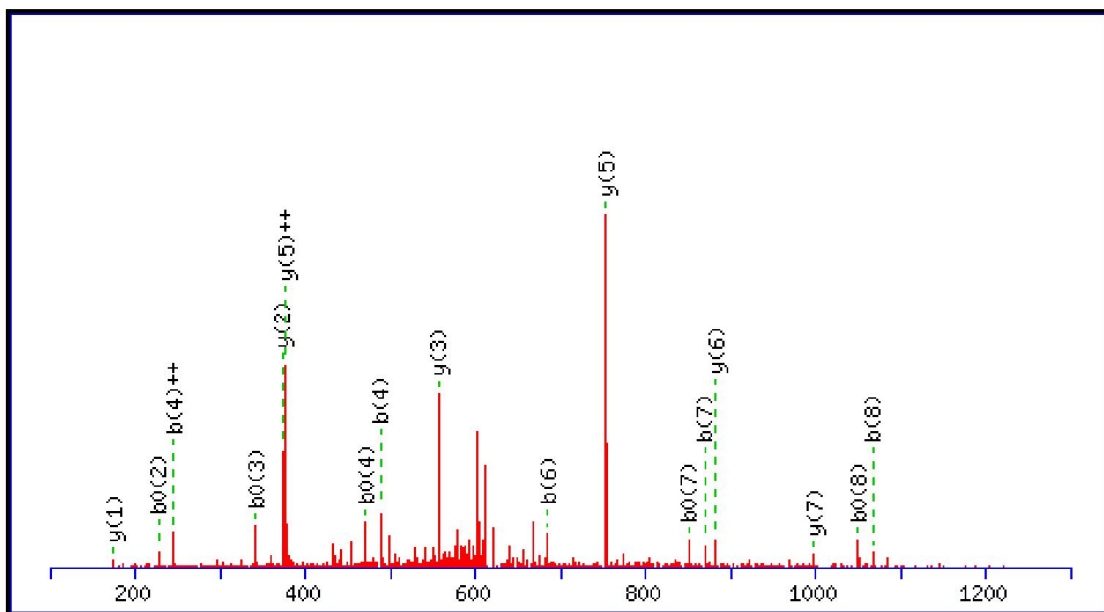
#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							9
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	K	1020.5593	510.7833	1003.5327	502.2700	1002.5487	501.7780	8
3	377.2303	189.1188	360.2038	180.6055	359.2198	180.1135	S	818.4003	409.7038	801.3737	401.1905	800.3897	400.6985	7
4	492.2573	246.6323	475.2307	238.1190	474.2467	237.6270	D	731.3682	366.1878	714.3417	357.6745	713.3577	357.1825	6
5	549.2788	275.1430	532.2522	266.6297	531.2682	266.1377	G	616.3413	308.6743	599.3148	300.1610	598.3307	299.6690	5
6	678.3213	339.6643	661.2948	331.1510	660.3108	330.6590	B	559.3198	280.1686	542.2933	271.6503	541.3093	271.1583	4
7	749.3585	375.1829	732.3319	366.6696	731.3479	366.1776	A	430.2772	215.6423	413.2507	207.1290			3
8	933.4796	467.2435	916.4531	458.7302	915.4691	458.2382	K	359.2401	180.1237	342.2136	171.6104			2
9							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 5547: 1240.629488 from(621.322020, 2+) intensity(125152.1172)

Title: File1261 Spectrum6531 scans: 7645

Data file I:\2013-9-5-Hela-Prometh-Fr5-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1240.6299

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

Variable modifications:

K7 : Propionyl (K)**K8** : Propionyl-Methylation (K)

Ions Score: 33 Expect: 0.2

Matches : 18/74 fragment ions using 33 most intense

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	E							9
2	245.0768	123.0420			227.0662	114.0368	D	1112.5946	556.8009	1095.5681	548.2877	1094.5841	547.7957	8
3	360.1038	180.5555			342.0932	171.5502	D	997.5677	499.2875	980.5411	490.7742	979.5571	490.2822	7
4	489.1463	245.0768			471.1358	236.0715	E	882.5407	441.7740	865.5142	433.2607	864.5302	432.7687	6
5	586.1991	293.6032			568.1885	284.5979	P	753.4981	377.2527	736.4716	368.7394			5
6	685.2675	343.1374			667.2570	334.1321	V	656.4454	328.7263	639.4188	320.2130			4
7	869.3887	435.1980	852.3622	426.6847	851.3781	426.1927	K	557.3770	279.1921	540.3504	270.6788			3
8	1067.5255	534.2664	1050.4990	525.7531	1049.5150	525.2611	K	373.2558	187.1315	356.2292	178.6183			2
9							R	175.1190	88.0631	158.0924	79.5498			1

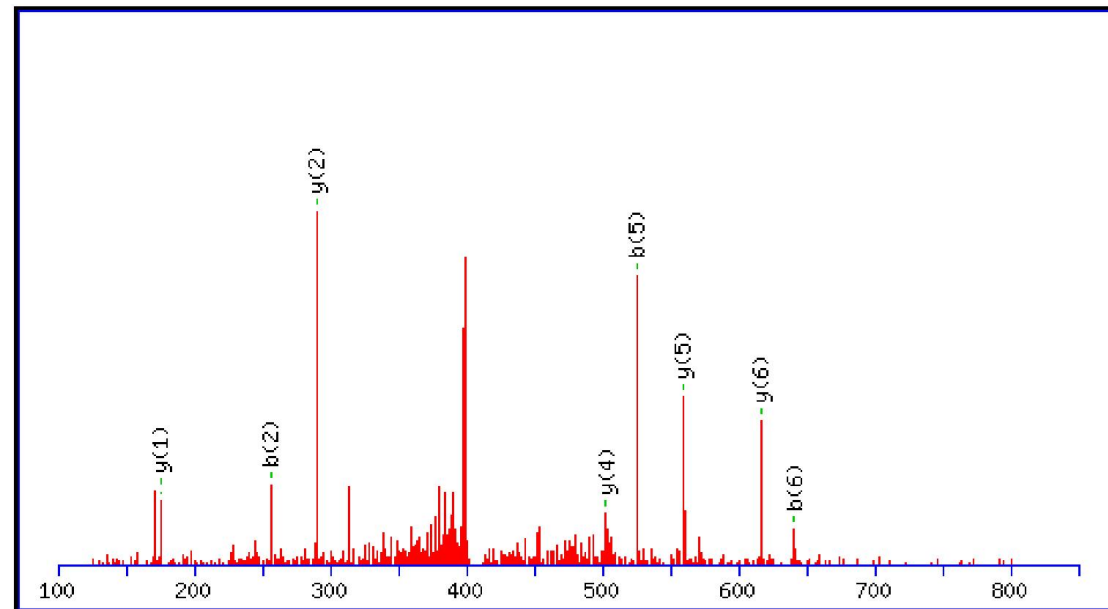
MS/MS Fragmentation of **KGGPDDR**Found in **Q15056**, Eukaryotic translation initiation factor 4H OS=Homo sapiens GN=EIF4H PE=1 SV=5

Match to Query 840: 813.398348 from(407.706450, 2+) intensity(54687.7305)

Title: File1308 Spectrum1897 scans: 2261

Data file I:\2013-9-12-Hela-Prometh-Fr4-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 813.3981**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-Methylation (K)**Ions Score:** 40 **Expect:** 0.013**Matches** : 8/62 fragment ions using 14 most intense

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624			K							7
2	256.1656	128.5864	239.1390	120.0731			G	616.2685	308.6379	599.2420	300.1246	598.2580	299.6326	6
3	313.1870	157.0972	296.1605	148.5839			G	559.2471	280.1272	542.2205	271.6139	541.2365	271.1219	5
4	410.2398	205.6235	393.2132	197.1103			P	502.2256	251.6164	485.1991	243.1032	484.2150	242.6112	4
5	525.2667	263.1370	508.2402	254.6237	507.2562	254.1317	D	405.1728	203.0901	388.1463	194.5768	387.1623	194.0848	3
6	640.2937	320.6505	623.2671	312.1372	622.2831	311.6452	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
7							R	175.1190	88.0631	158.0924	79.5498			1

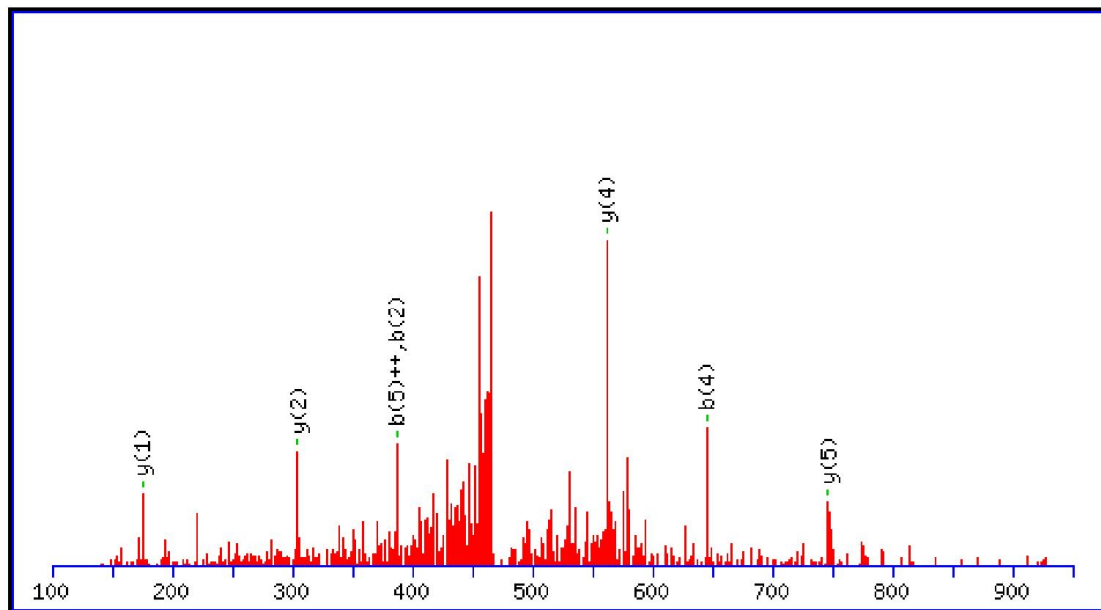
Found in **Q13442**, 28 kDa heat- and acid-stable phosphoprotein OS=Homo sapiens GN=PDAP1 PE=1 SV=1

Match to Query 2361: 947.519148 from(474.766850, 2+) intensity(23489.1426)

Title: File1308 Spectrum3039 scans: 3502

Data file I:\2013-9-12-Hela-Prometh-Fr4-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 947.5196**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**K2** : Propionyl (K)**Ions Score:** 36 **Expect:** 0.12**Matches** : 7/54 fragment ions using 8 most

#	b	b ⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							6
2	387.2875	194.1474	370.2609	185.6341			K	746.3679	373.6876	729.3414	365.1743	728.3573	364.6823	5
3	516.3301	258.6687	499.3035	250.1554	498.3195	249.6634	E	562.2467	281.6270	545.2202	273.1137	544.2362	272.6217	4
4	645.3727	323.1900	628.3461	314.6767	627.3621	314.1847	E	433.2041	217.1057	416.1776	208.5924	415.1936	208.1004	3
5	774.4152	387.7113	757.3887	379.1980	756.4047	378.7060	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
6							R	175.1190	88.0631	158.0924	79.5498			1

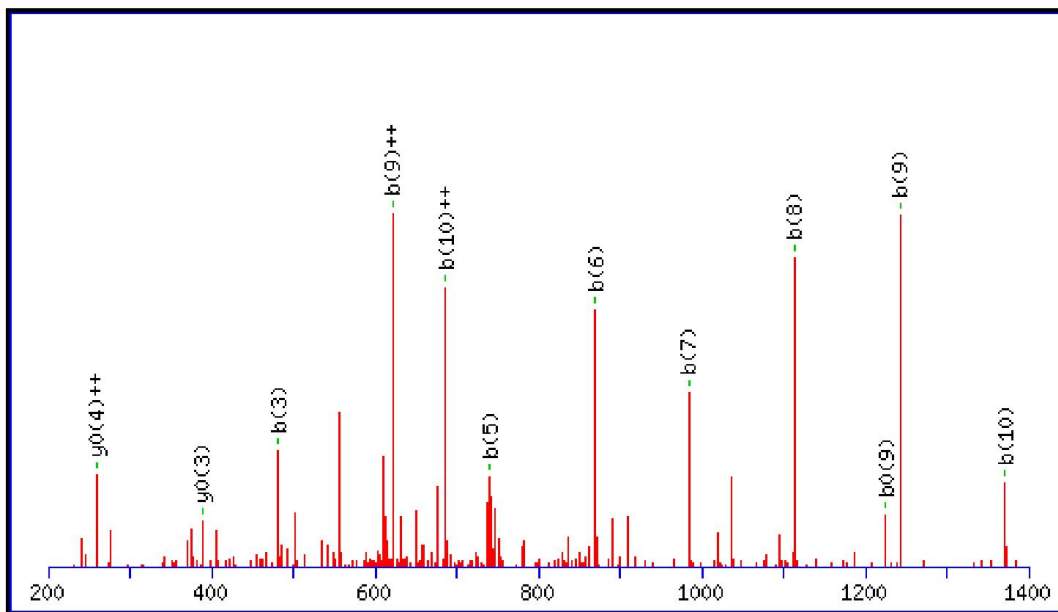
Found in **E7ES08**, High mobility group protein B3 (Fragment) OS=Homo sapiens GN=HMGB3 PE=2 SV=1

Match to Query 8743: 1517.662808 from(759.838680, 2+) intensity(384799.4375)

Title: File1308 Spectrum6538 scans: 7421

Data file I:\2013-9-12-Hela-Prometh-Fr4-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1517.6620**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl (K)**K2** : Propionyl-Methylation (K)**Ions Score:** 60 **Expect:** 8.1e-005**Matches** : 13/96 fragment ions using 12 most intense peaks

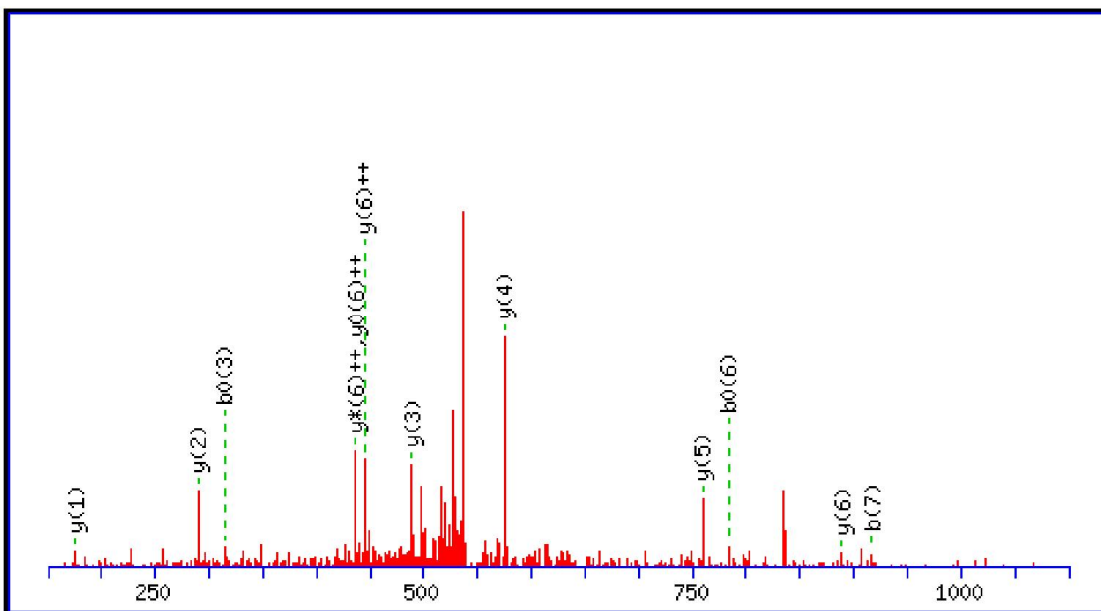
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.6879	168.1019	84.5546			K							11
2	383.2653	192.1363	366.2387	183.6230			K	1334.5482	667.7777	1317.5216	659.2645	1316.5376	658.7724	10
3	482.3337	241.6705	465.3071	233.1572			V	1136.4113	568.7093			1118.4008	559.7040	9
4	611.3763	306.1918	594.3497	297.6785	593.3657	297.1865	E	1037.3429	519.1751			1019.3324	510.1698	8
5	740.4189	370.7131	723.3923	362.1998	722.4083	361.7078	E	908.3003	454.6538			890.2898	445.6485	7
6	869.4615	435.2344	852.4349	426.7211	851.4509	426.2291	E	779.2577	390.1325			761.2472	381.1272	6
7	984.4884	492.7478	967.4619	484.2346	966.4779	483.7426	D	650.2152	325.6112			632.2046	316.6059	5
8	1113.5310	557.2691	1096.5045	548.7559	1095.5204	548.2639	E	535.1882	268.0977			517.1776	259.0925	4
9	1242.5736	621.7904	1225.5471	613.2772	1224.5630	612.7852	E	406.1456	203.5764			388.1351	194.5712	3
10	1371.6162	686.3117	1354.5896	677.7985	1353.6056	677.3065	E	277.1030	139.0552			259.0925	130.0499	2
11							E	148.0604	74.5339			130.0499	65.5286	1

Match to Query 4297: 1089.530368 from(545.772460,2+) intensity(42237.9844)

Title: File1308 Spectrum3963 scans: 4521

Data file I:\2013-9-12-Hela-Prometh-Fr4-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1089.5302**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K4** : Propionyl (K)**K6** : Propionyl-Methylation (K)**Ions Score: 24 Expect: 1.3****Matches :** 12/76 fragment ions using 28 most i

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							8
2	203.0662	102.0368			185.0557	93.0315	D	1003.5055	502.2564	986.4789	493.7431	985.4949	493.2511	7
3	332.1088	166.5581			314.0983	157.5528	E	888.4785	444.7429	871.4520	436.2296	870.4680	435.7376	6
4	516.2300	258.6186	499.2035	250.1054	498.2195	249.6134	K	759.4359	380.2216	742.4094	371.7083	741.4254	371.2163	5
5	603.2620	302.1347	586.2355	293.6214	585.2515	293.1294	S	575.3148	288.1610	558.2882	279.6477	557.3042	279.1557	4
6	801.3989	401.2031	784.3723	392.6898	783.3883	392.1978	K	488.2827	244.6450	471.2562	236.1317	470.2722	235.6397	3
7	916.4258	458.7165	899.3993	450.2033	898.4153	449.7113	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
8							R	175.1190	88.0631	158.0924	79.5498			1

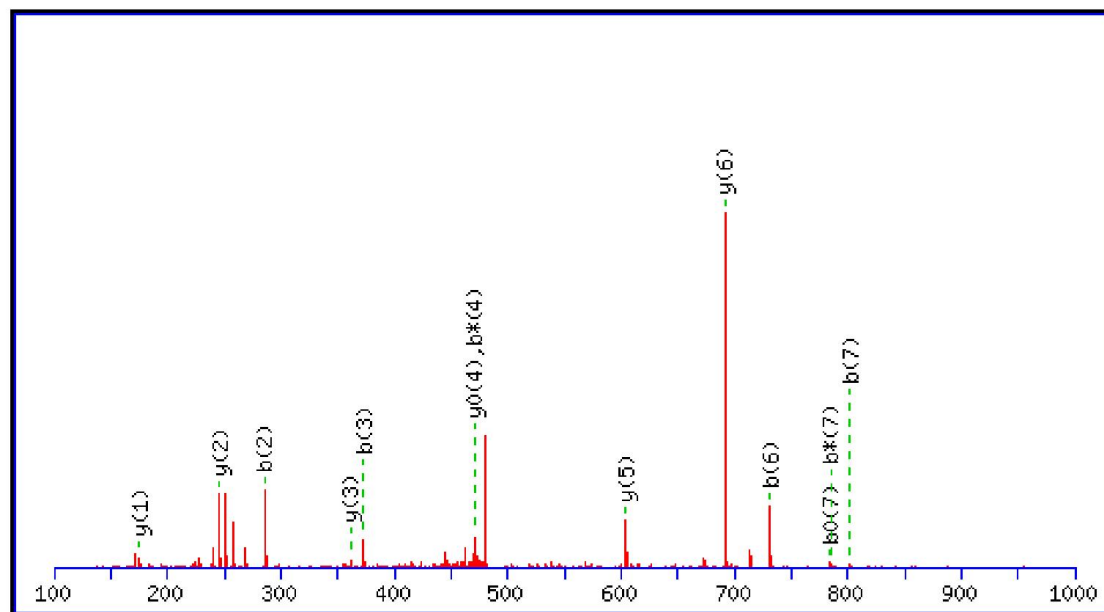
Found in **E7EX17**, Eukaryotic translation initiation factor 4B OS=Homo sapiens GN=EIF4B PE=2 SV=1

Match to Query 2708: 975.462568 from(488.738560, 2+) intensity(328427.3438)

Title: File1308 Spectrum1574 scans: 1916

Data file I:\2013-9-12-Hela-Prometh-Fr4-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 975.4621**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-Methylation (K)**Ions Score:** 29 **Expect:** 0.23**Matches** : 13/78 fragment ions using 25 most i

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							8
2	286.1761	143.5917	269.1496	135.0784	268.1656	134.5864	K	889.4374	445.2223	872.4108	436.7091	871.4268	436.2170	7
3	373.2082	187.1077	356.1816	178.5944	355.1976	178.1024	S	691.3006	346.1539	674.2740	337.6406	673.2900	337.1486	6
4	488.2351	244.6212	471.2086	236.1079	470.2245	235.6159	D	604.2685	302.6379	587.2420	294.1246	586.2580	293.6326	5
5	616.2937	308.6505	599.2671	300.1372	598.2831	299.6452	Q	489.2416	245.1244	472.2150	236.6112	471.2310	236.1191	4
6	731.3206	366.1640	714.2941	357.6507	713.3101	357.1587	D	361.1830	181.0951	344.1565	172.5819	343.1724	172.0899	3
7	802.3577	401.6825	785.3312	393.1692	784.3472	392.6772	A	246.1561	123.5817	229.1295	115.0684			2
8							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **PSVLGPLKR**

Found in **Q7Z309**, Protein FAM122B OS=Homo sapiens GN=FAM122B PE=1 SV=2

Match to Query 3569: 1035.645608 from(518.830080, 2+) intensity(37804.5039)

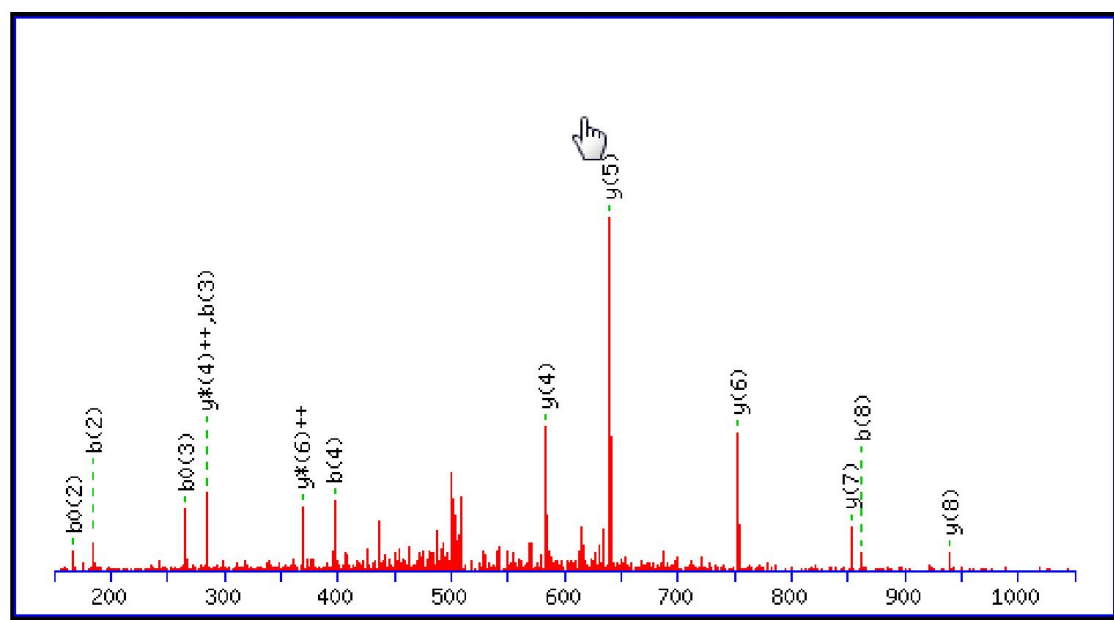
Title: File1308 Spectrum11446 scans: 12589

Data file I:\2013-9-12-Hela-Prometh-Fr4-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1035.6441

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

Variable modifications:

K8 : Propionyl-Methylation (K)

Ions Score: 42 **Expect:** 0.018

Matches : 13/66 fragment ions using 18 most intens

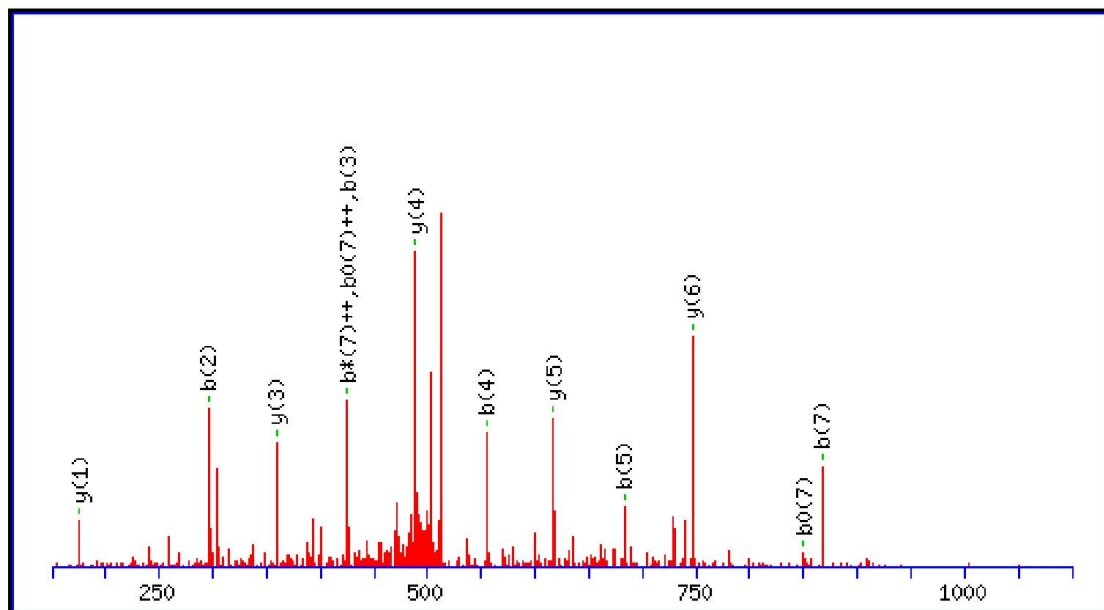
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	98.0600	49.5337					P							9
2	185.0921	93.0497			167.0815	84.0444	S	939.5986	470.3029	922.5720	461.7897	921.5880	461.2976	8
3	284.1605	142.5839			266.1499	133.5786	V	852.5666	426.7869	835.5400	418.2736			7
4	397.2445	199.1259			379.2340	190.1206	L	753.4981	377.2527	736.4716	368.7394			6
5	454.2660	227.6366			436.2554	218.6314	G	640.4141	320.7107	623.3875	312.1974			5
6	551.3188	276.1630			533.3082	267.1577	P	583.3926	292.1999	566.3661	283.6867			4
7	664.4028	332.7051			646.3923	323.6998	L	486.3398	243.6736	469.3133	235.1603			3
8	862.5397	431.7735	845.5131	423.2602	844.5291	422.7682	K	373.2558	187.1315	356.2292	178.6183			2
9							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 3187: 1040.512908 from(521.263730, 2+) intensity(72007.9297)

Title: File1329 Spectrum5587 scans: 6048

Data file I:\2013-9-14-Hela-Prometh-Fr3-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1040.5138**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-Methylation (K)**Ions Score:** 36 **Expect:** 0.054**Matches** : 13/76 fragment ions using 17 most intense peaks

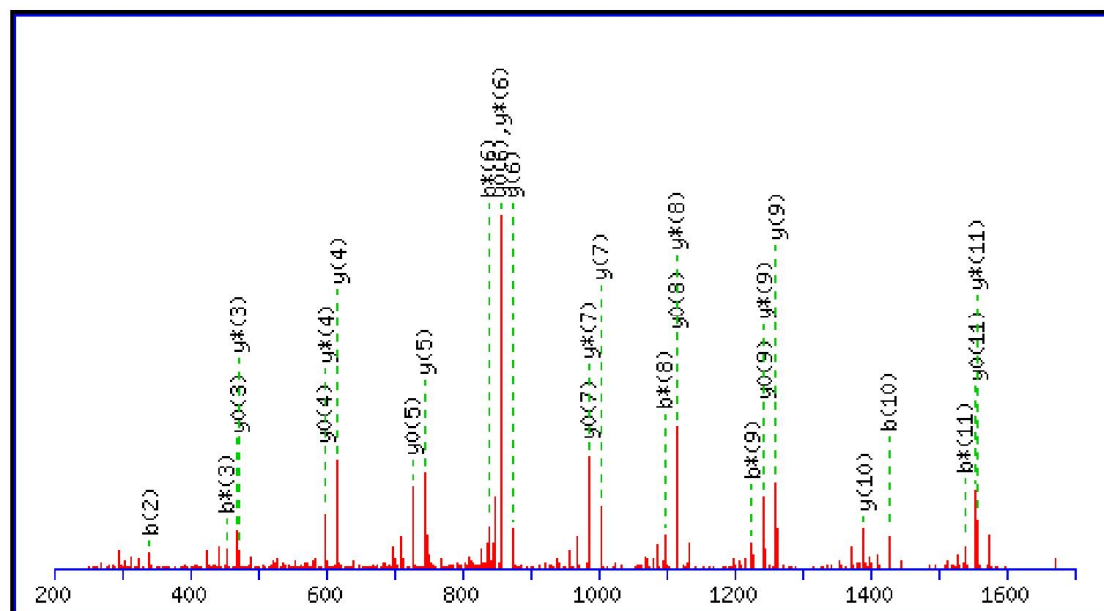
#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624			K							8
2	296.1969	148.6021	279.1703	140.0888			P	843.3843	422.1958	826.3577	413.6825	825.3737	413.1905	7
3	425.2395	213.1234	408.2129	204.6101	407.2289	204.1181	E	746.3315	373.6694	729.3050	365.1561	728.3210	364.6641	6
4	554.2821	277.6447	537.2555	269.1314	536.2715	268.6394	E	617.2889	309.1481	600.2624	300.6348	599.2784	300.1428	5
5	683.3246	342.1660	666.2981	333.6527	665.3141	333.1607	E	488.2463	244.6268	471.2198	236.1135	470.2358	235.6215	4
6	770.3567	385.6820	753.3301	377.1687	752.3461	376.6767	S	359.2037	180.1055	342.1772	171.5922	341.1932	171.1002	3
7	867.4094	434.2084	850.3829	425.6951	849.3989	425.2031	P	272.1717	136.5895	255.1452	128.0762			2
8							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 11533: 1728.830428 from(865.422490, 2+) intensity(310533.7500)

Title: File1329 Spectrum3428 scans: 3799

Data file I:\2013-9-14-Hela-Prometh-Fr3-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1728.8278****Fixed modifications:** Carbamidomethyl (C) (apply to spec)**Variable modifications:****K2** : Propionyl (K)**K10** : Propionyl (K)**Ions Score: 67 Expect: 8.9e-005****Matches : 36/126 fragment ions using 45 most intense peak:**

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	157.1084	79.0578	140.0818	70.5446			R							12
2	341.2296	171.1184	324.2030	162.6051			K	1573.7340	787.3706	1556.7075	778.8574	1555.7235	778.3654	11
3	470.2722	235.6397	453.2456	227.1264	452.2616	226.6344	E	1389.6128	695.3101	1372.5863	686.7968	1371.6023	686.3048	10
4	598.3307	299.6690	581.3042	291.1557	580.3202	290.6637	Q	1260.5703	630.7888	1243.5437	622.2755	1242.5597	621.7835	9
5	727.3733	364.1903	710.3468	355.6770	709.3628	355.1850	E	1132.5117	566.7595	1115.4851	558.2462	1114.5011	557.7542	8
6	856.4159	428.7116	839.3894	420.1983	838.4054	419.7063	E	1003.4691	502.2382	986.4425	493.7249	985.4585	493.2329	7
7	985.4585	493.2329	968.4820	484.7196	967.4480	484.2276	E	874.4265	437.7169	857.3999	429.2036	856.4159	428.7116	6
8	1114.5011	557.7542	1097.4746	549.2409	1096.4905	548.7489	E	745.3839	373.1956	728.3573	364.6823	727.3733	364.1903	5
9	1242.5597	621.7835	1225.5331	613.2702	1224.5491	612.7782	Q	616.3413	308.6743	599.3148	300.1610	598.3307	299.6690	4
10	1426.6809	713.8441	1409.6543	705.3308	1408.6703	704.8388	K	488.2827	244.6450	471.2562	236.1317	470.2722	235.6397	3
11	1555.7235	778.3654	1538.6969	769.8521	1537.7129	769.3601	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
12							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **GPLPVKR**

Found in **HOY6E7**, RNA-binding motif protein, X chromosome, N-terminally processed (Fragment) OS=Homo sapiens GN=RBMX PE=4 SV=2

Match to Query 808: 835.527988 from(418.771270,2+) intensity(565885.3750)

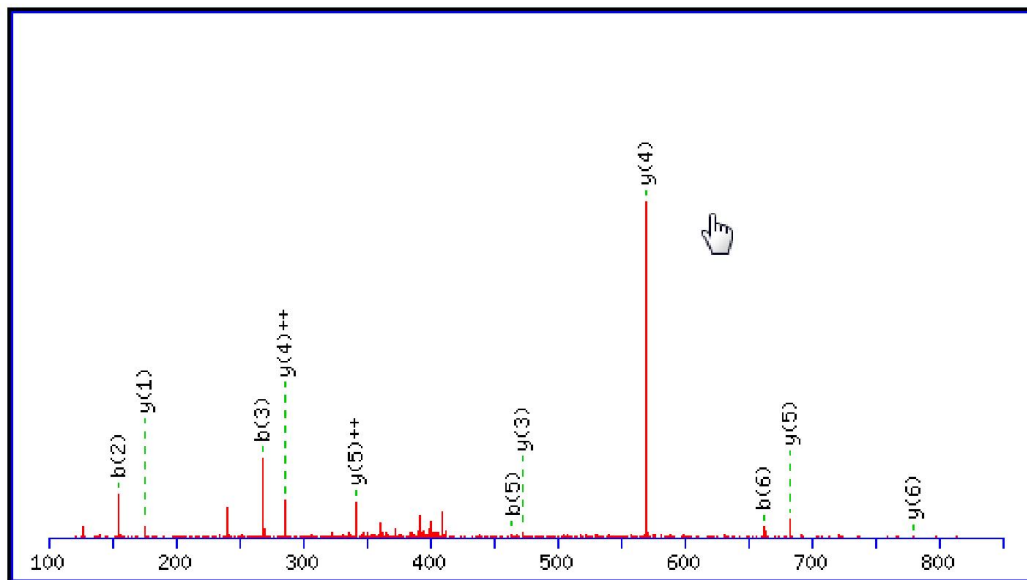
Title: File1319 Spectrum8509 scans: 9135

Data file I:\2013-9-13-Hela-Prometh-Fr2-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 835.5280

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

Variable modifications:

K6 : Propionyl-Methylation (K)

Ions Score: 49 **Expect:** 0.0028

Matches : 11/38 fragment ions using 14 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	#
1	58.0287	29.5180			G					7
2	155.0815	78.0444			P	779.5138	390.2605	762.4872	381.7473	6
3	268.1656	134.5864			L	682.4610	341.7341	665.4345	333.2209	5
4	365.2183	183.1128			P	569.3770	285.1921	552.3504	276.6788	4
5	464.2867	232.6470			V	472.3242	236.6657	455.2976	228.1525	3
6	662.4236	331.7154	645.3970	323.2022	K	373.2558	187.1315	356.2292	178.6183	2
7					R	175.1190	88.0631	158.0924	79.5498	1

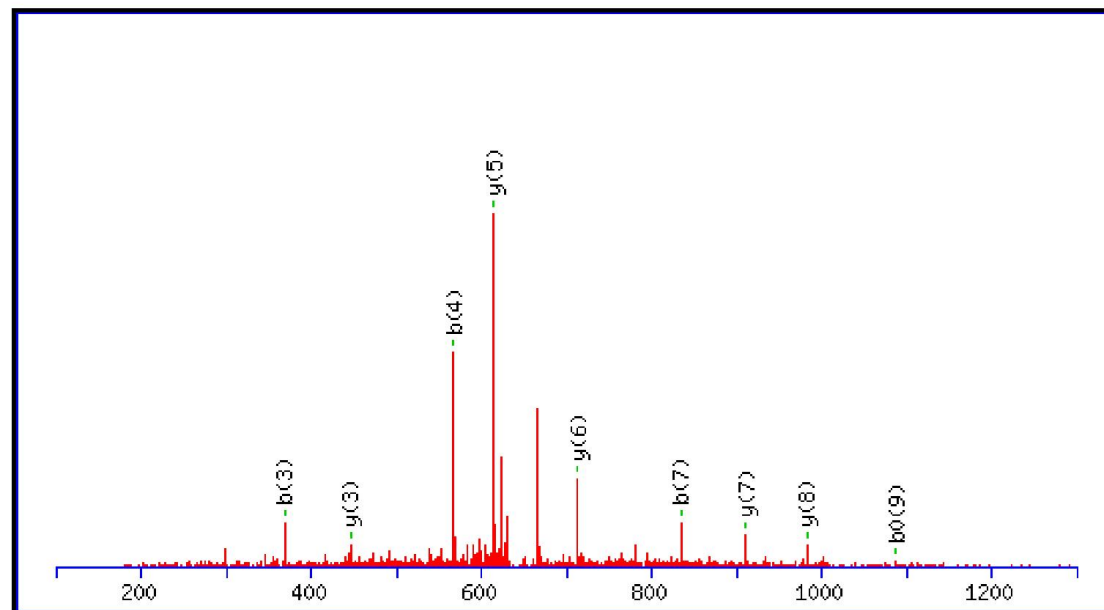
MS/MS Fragmentation of **GKAKVPASKR**Found in **Q9GZR2-2**, Isoform 2 of RNA exonuclease 4 OS=Homo sapiens GN=REXO4

Match to Query 4992: 1278.765228 from(640.389890,2+) intensity(276350.1563)

Title: File1319 Spectrum11206 scans: 11944

Data file I:\2013-9-13-Hela-Prometh-Fr2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1278.7659**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****N-term :** Acetyl (Protein N-term)**K2 :** Propionyl-Methylation (K)**K4 :** Propionyl-Methylation (K)**K9 :** Propionyl (K)**Ions Score:** 39 **Expect:** 0.059**Matches :** 9/88 fragment ions using 11 most intense peaks:

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	100.0393	50.5233					G							10
2	298.1761	149.5317	281.1496	141.0784			K	1180.7412	590.8742	1163.7147	582.3610	1162.7307	581.8690	9
3	369.2132	185.1103	352.1867	176.5970			A	982.6044	491.8058	965.5778	483.2926	964.5938	482.8006	8
4	567.3501	284.1787	550.3235	275.6654			K	911.5673	456.2873	894.5407	447.7740	893.5567	447.2820	7
5	666.4185	333.7129	649.3919	325.1996			V	713.4304	357.2189	696.4039	348.7056	695.4199	348.2136	6
6	763.4713	382.2393	746.4447	373.7280			P	614.3620	307.6847	597.3355	299.1714	596.3515	298.6794	5
7	834.5084	417.7578	817.4818	409.2445			A	517.3093	259.1583	500.2827	250.6450	499.2987	250.1530	4
8	921.5404	461.2738	904.5138	452.7606	903.5298	452.2686	S	446.2722	223.6397	429.2456	215.1264	428.2616	214.6344	3
9	1105.6616	553.3344	1088.6350	544.8212	1087.6510	544.3291	K	359.2401	180.1237	342.2136	171.6104			2
10							R	175.1190	88.0631	158.0924	79.5498			1

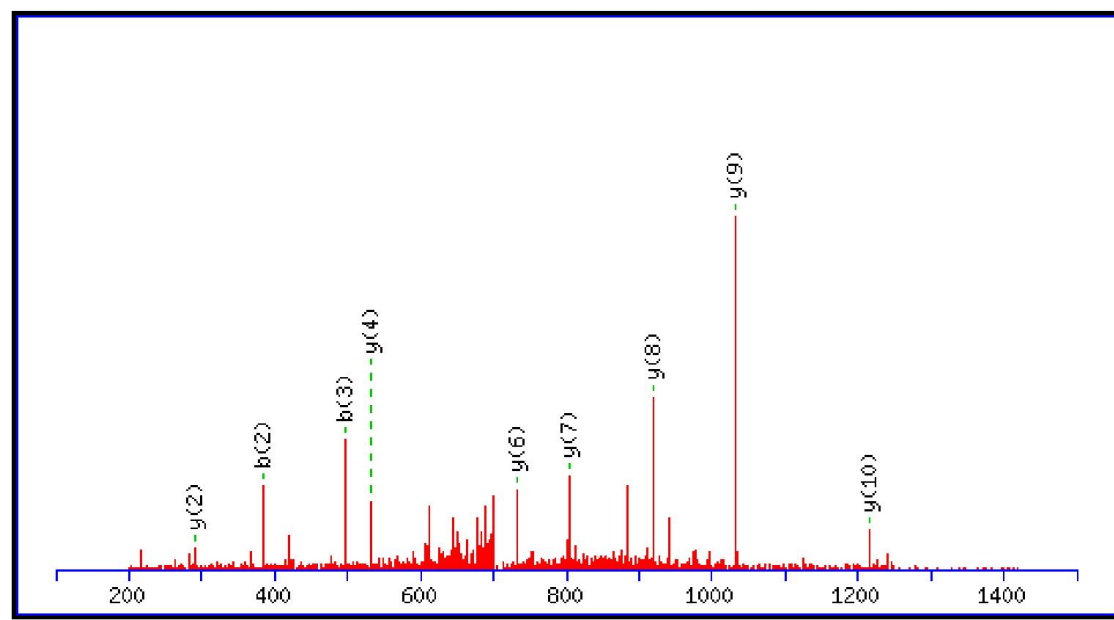
Found in **J3KMZ8**, Zinc finger protein ubi-d4 OS=Homo sapiens GN=DPF2 PE=4 SV=1

Match to Query 6324: 1412.788188 from(707.401370, 2+) intensity(402113.6250)

Title: File1319 Spectrum14746 scans: 15632

Data file I:\2013-9-13-Hela-Prometh-Fr2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1412.7875****Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-Methylation (K)**K2** : Propionyl (K)**Ions Score:** 57 **Expect:** 0.0016**Matches** : 9/112 fragment ions using 13 most intense peak

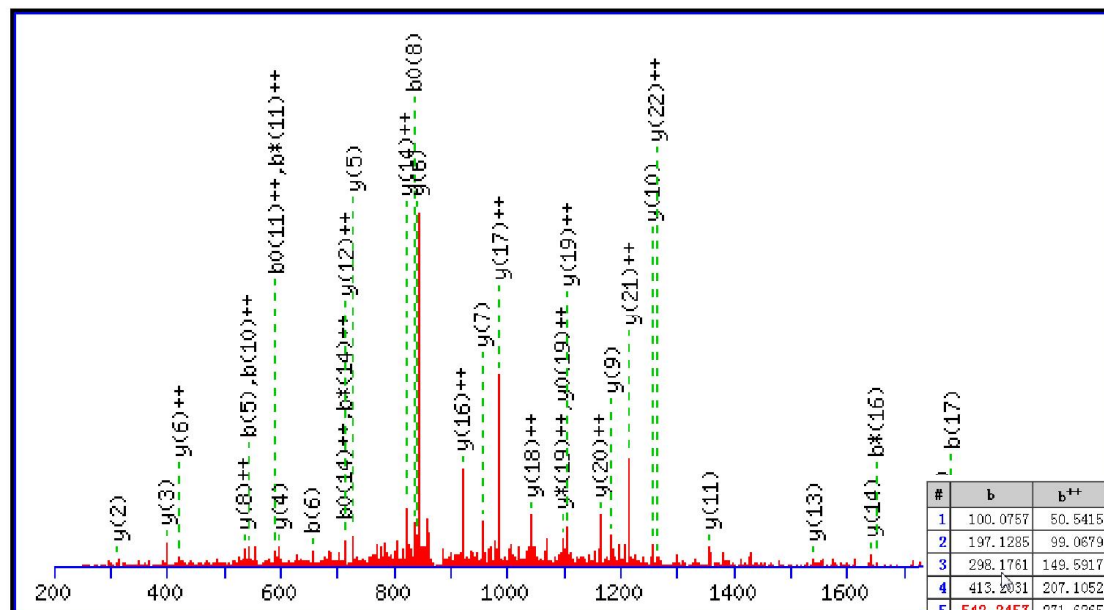
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624			K							11
2	383.2653	192.1363	366.2387	183.6230			K	1215.6579	608.3326	1198.6314	599.8193	1197.6474	599.3273	10
3	496.3493	248.6783	479.3228	240.1650			L	1031.5368	516.2720	1014.5102	507.7587	1013.5262	507.2667	9
4	611.3763	306.1918	594.3497	297.6785	593.3657	297.1865	D	918.4527	459.7300	901.4262	451.2167	900.4421	450.7247	8
5	682.4134	341.7103	665.3869	333.1971	664.4028	332.7051	A	803.4258	402.2165	786.3992	393.7032	785.4152	393.2112	7
6	769.4454	385.2264	752.4189	376.7131	751.4349	376.2211	S	732.3886	366.6980	715.3621	358.1847	714.3781	357.6927	6
7	882.5295	441.7684	865.5029	433.2551	864.5189	432.7631	I	645.3566	323.1819	628.3301	314.6687	627.3461	314.1767	5
8	995.6136	498.3104	978.5870	489.7971	977.6030	489.3051	L	532.2726	266.6399	515.2460	258.1266	514.2620	257.6346	4
9	124.6562	562.8317	1107.6296	554.3184	1106.6456	553.8264	E	419.1885	210.0979	402.1619	201.5846	401.1779	201.0926	3
10	1239.6831	620.3452	1222.6565	611.8319	1221.6725	611.3399	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
11							R	175.1190	88.0631	158.0924	79.5498			

Match to Query 19651: 2623.319412 from(875.447080, 3+) intensity(75526.3984)

Title: [File]319 Spectrum19069 scans: 20135

Data file I:\2013-9-13-Hela-Prometh-Fr2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 2623.3163

Fixed modifications: Carbamidomethyl (C) (apply to specified r)

Variable modifications:

K20 : Propionyl-Methylation (K)

Ions Score: 77 Expect: 3.4e-005

Matches : 35/240 fragment ions using 69 most intense peaks (he

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							23
2	197.1285	99.0679					P	2525.2552	1263.1312	2508.2286	1254.6180	2507.2446	1254.1260	22
3	298.1761	149.5917			280.1656	140.5864	T	2428.2024	1214.6049	2411.1759	1206.0916	2410.1919	1205.5996	21
4	413.2031	207.1052			395.1925	198.0999	D	2327.1548	1164.0810	2310.1282	1155.5677	2309.1442	1155.0757	20
5	542.2457	271.6265			524.2351	262.6212	E	2212.1278	1106.5675	2195.1013	1098.0543	2194.1172	1097.5623	19
6	655.3297	328.1685			637.3192	319.1632	I	2083.0852	1042.0462	2066.0587	1033.5330	2065.0747	1033.0410	18
7	784.3723	392.6898			766.3618	383.6845	E	1970.0012	985.5042	1952.9746	976.9909	1951.9905	976.4989	17
8	855.4094	428.2084			837.3989	419.2031	A	1840.9586	920.9829	1823.9320	912.4696	1822.9480	911.9776	16
9	983.4680	492.2376	966.4415	483.7244	965.4575	483.2324	Q	1769.9214	885.4644	1752.8949	876.9511	1751.9109	876.4591	15
10	1084.5157	542.7615	1067.4891	534.2482	1066.5051	533.7562	T	1641.8629	821.4351	1624.8363	812.9218	1623.8523	812.4298	14
11	1197.5998	599.3035	1180.5732	590.7902	1179.5892	590.2982	L	1540.8152	770.9112	1523.7886	762.3980	1522.8046	761.9060	13
12	1268.6369	634.8221	1251.6103	626.3088	1250.6263	625.8168	A	1427.7311	714.3692	1410.7046	705.8559	1409.7206	705.3639	12
13	1369.6846	685.3459	1352.6580	676.8326	1351.6740	676.3406	T	1356.6940	678.8506	1339.6675	670.3374	1338.6834	669.8454	11
14	1440.7217	720.8845	1423.6951	712.3512	1422.7111	711.8692	A	1255.6463	628.3268	1238.6198	619.8135	1237.6358	619.3215	10
15	1555.7486	778.3779	1538.7221	769.8647	1537.7380	769.3727	D	1184.6092	592.8082	1167.5827	584.2950	1166.5987	583.8030	9
16	1668.8327	834.9200	1651.8061	826.4067	1650.8221	825.9147	L	1069.5823	535.2948	1052.5557	526.7815	1051.5717	526.2895	8
17	1783.8596	892.4334	1766.8331	883.9202	1765.8491	883.4282	D	956.4982	478.7527	939.4717	470.2395	938.4876	469.7475	7
18	1896.9437	948.9755	1879.9171	940.4622	1878.9331	939.9702	L	841.4713	421.2393	824.4447	412.7260	823.4607	412.2340	6
19	2027.9842	1014.4957	2010.9576	1005.9824	2009.9736	1005.4904	M	728.3872	364.6972	711.3607	356.1840	710.3766	355.6920	5
20	2226.1210	1113.5641	2209.0944	1105.0509	2208.1104	1104.5589	K	597.3467	299.1770	580.3202	290.6637	579.3362	290.1717	4
21	2313.1530	1157.0801	2296.1265	1148.5669	2295.1425	1148.0749	S	399.2099	200.1086	382.1833	191.5953	381.1993	191.1033	3
22	2450.2119	1225.6096	2433.1854	1217.0963	2432.2014	1216.6043	H	312.1779	156.5926	295.1513	148.0793			2
23							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of PRHQGVIVGNGQKDSYVGDEAQSQR

Found in I3L3I4, Actin, cytoplasmic 2, N-terminally processed OS=Homo sapiens GN=ACTG1 PE=2 SV=1

Match to Query 21386: 2885.380692 from(962.800840, 3+) intensity(91224.3594)

Title: File1319 Spectrum11628 scans: 12384

Data file I:\2013-9-13-Hela-Prometh-Fr2-ZW.mgf

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

Or, Plot from 200 to 2000 Da Full range

Label all possible matches Label matches used for scoring

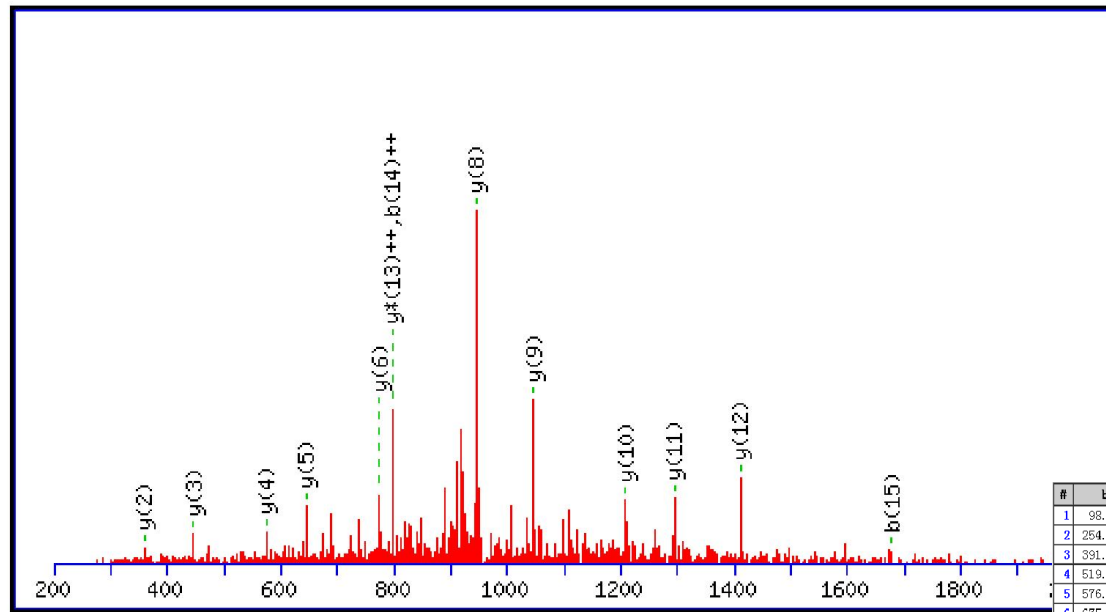


Table with 13 columns: #, b, b++, b+, b+**, b0, b0**, Seq., y, y++, y+, y+**, y0, y0**, #. It lists 25 rows of data corresponding to the mass spectrum peaks.

Monoisotopic mass of neutral peptide Mr(calc): 2885.3913
Fixed modifications: Carbamidomethyl (C) (apply to specified residues of)
Variable modifications:
K13 : Propionyl-Methylation (K)
K24 : Propionyl (K)
Ions Score: 64 Expect: 0.00041
Matches : 13/256 fragment ions using 17 most intense peaks (help)

MS/MS Fragmentation of **KREPEDEGEDDD**

Found in **P39687**, Acidic leucine-rich nuclear phosphoprotein 32 family member A OS=Homo sapiens GN=ANP32A PE=1 SV=1

233

Match to Query 7668: 1502.602388 from(752.308470,2+) intensity(470317.4688)

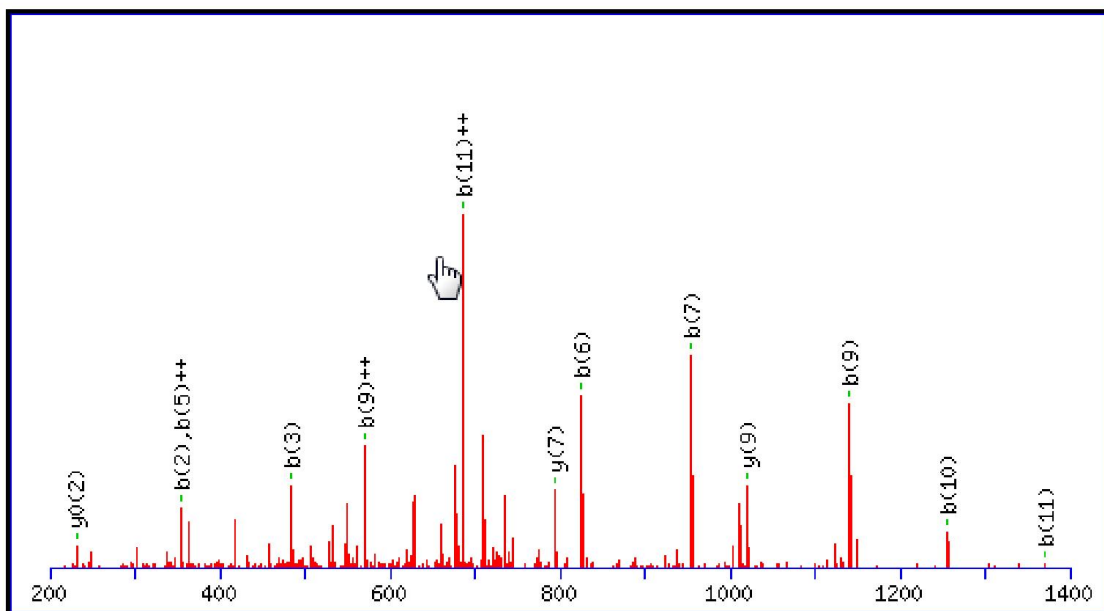
Title: File1319 Spectrum4011 scans: 4441

Data file I:\2013-9-13-Hela-Prometh-Fr2-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1502.6009

Fixed modifications: Carbamidomethyl (C) (apply to specific...)

Variable modifications:

K1 : Propionyl-Methylation (K)

Ions Score: 70 Expect: 1.7e-006

Matches : 13/108 fragment ions using 12 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624			K							12
2	355.2452	178.1262	338.2187	169.6130			R	1305.4713	653.2393	1288.4448	644.7260	1237.4608	644.2340	11
3	484.2878	242.6475	467.2613	234.1343	466.2772	233.6423	B	1149.3702	575.1887			1131.3596	566.1835	10
4	581.3406	291.1739	564.3140	282.6606	563.3300	282.1686	P	1020.3276	510.6674			1002.3171	501.6622	9
5	710.3832	355.6952	693.3566	347.1819	692.3726	346.6899	E	923.2749	462.1411			905.2643	453.1358	8
6	625.4101	413.2087	808.3836	404.6954	807.3995	404.2034	D	794.2323	397.6198			776.2217	388.6145	7
7	954.4527	477.7300	937.4262	469.2167	936.4421	468.7247	E	679.2053	340.1063			661.1948	331.1010	6
8	1011.4742	506.2407	994.4476	497.7274	993.4636	497.2354	G	550.1627	275.5850			532.1522	266.5797	5
9	1140.5168	570.7620	1123.4902	562.2487	1122.5062	561.7567	E	493.1413	247.0743			475.1307	238.0690	4
10	1255.5437	628.2755	1238.5172	619.7622	1237.5331	619.2702	D	364.0987	182.5530			346.0881	173.5477	3
11	1370.5706	685.7890	1353.5441	677.2757	1352.5401	676.7837	D	249.0717	125.0395			231.0612	116.0342	2
12							D	134.0448	67.5260			116.0342	58.5207	1

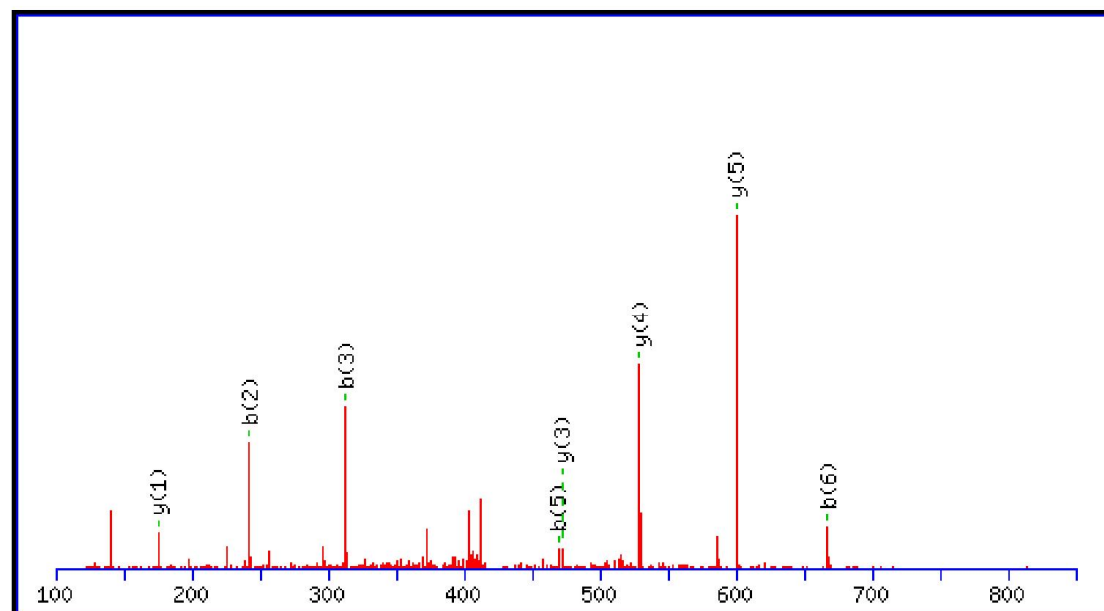
MS/MS Fragmentation of **GKAGVQR**Found in **G3V2D6**, Heterogeneous nuclear ribonucleoproteins C1/C2 (Fragment) OS=Homo sapiens GN=HNRNPC PE=2 SV=1 **234**

Match to Query 708: 840.518648 from(421.266600, 2+) intensity(698397.8125)

Title: File1322 Spectrum5110 scans: 5633

Data file I:\2013-9-13-Hela-Prometh-Fr1-ZW.mgf

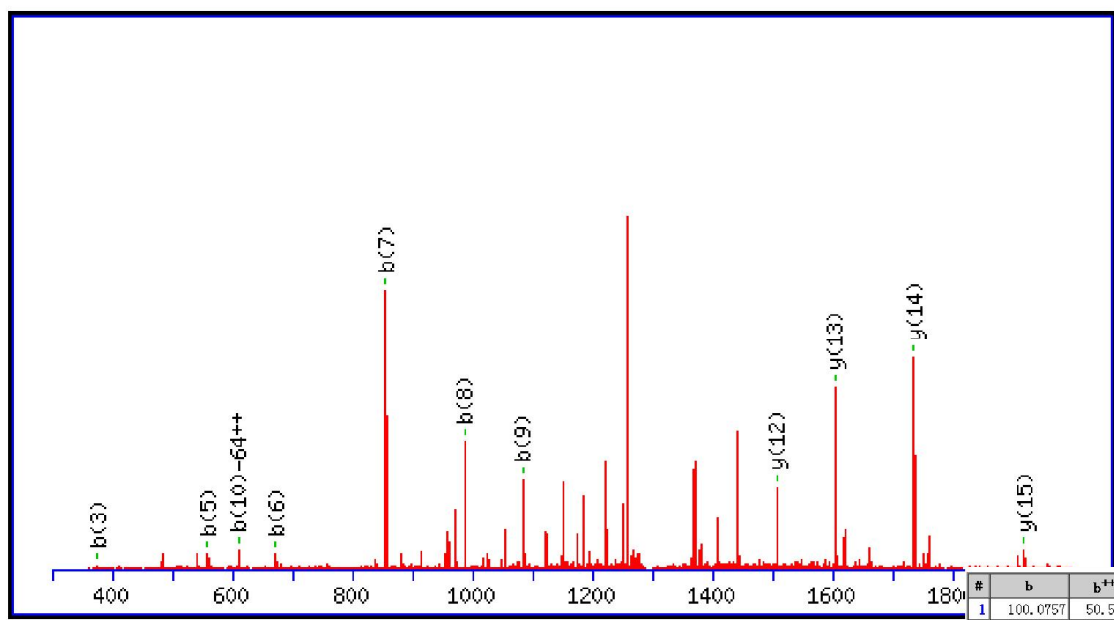
Click mouse within plot area to zoom in by factor of two about that point

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 840.5181**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl (K)**K6** : Propionyl-Methylation (K)**Ions Score:** 37 **Expect:** 0.064**Matches** : 8/46 fragment ions using 13 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	58.0287	29.5180			G					7
2	242.1499	121.5786	225.1234	113.0653	K	784.5040	392.7556	767.4774	384.2423	6
3	313.1870	157.0972	296.1605	148.5839	A	600.3828	300.6950	583.3562	292.1817	5
4	370.2085	185.6079	353.1819	177.0946	G	529.3457	265.1765	512.3191	256.6632	4
5	469.2769	235.1421	452.2504	226.6288	V	472.3242	236.6657	455.2976	228.1525	3
6	667.4137	334.2105	650.3872	325.6972	K	373.2558	187.1315	356.2292	178.6183	2
7					R	175.1190	88.0631	153.0924	79.5498	1

Match to Query 15938: 2591.407328 from(1296.710940,2+) intensity(102551.4297)
 Title: File:281 Spectrum21228 scans: 22802
 Data file I:\2013-9-12-Hela-Prometh-Fr19-ZW.mgf

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



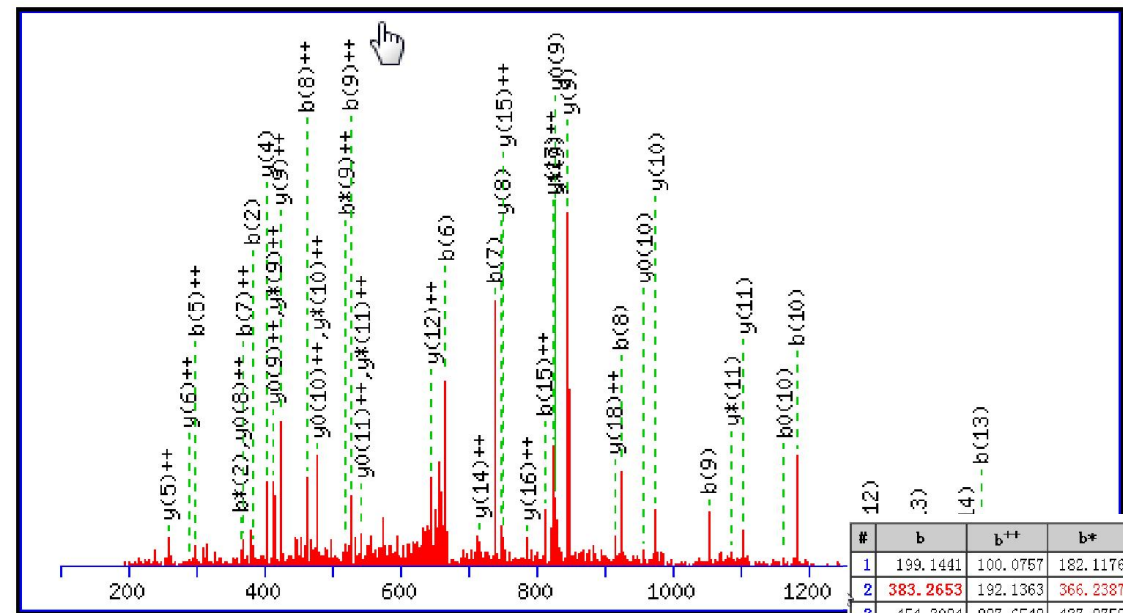
Monoisotopic mass of neutral peptide Mr(calc): 2590.4227
Fixed modifications: Carbamidomethyl (C) (apply to specified residue)
Variable modifications:
K3 : Oxidation (M), with neutral losses 0.0000(shown in table),
K7 : Propionyl (K)
K10 : Propionyl-Methylation (K)
K14 : Propionyl-Methylation (K)
Ions Score: 28 Expect: 1.9
Matches : 11/342 fragment ions using 17 most intense peaks (help)

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							21
2	228.1343	114.5708	211.1077	106.0575			Q	2492.3615	1246.6844	2475.3350	1238.1711	2474.3510	1237.6791	20
3	375.1697	188.0885	358.1431	179.5752			H	2364.3029	1182.6551	2347.2764	1174.1418	2346.2924	1173.6498	19
4	472.3224	236.6149	455.1959	228.1016			P	2217.2875	1109.1374	2200.2410	1100.6241	2199.2570	1100.1321	18
5	559.2545	280.1309	542.2279	271.6176	541.2439	271.1256	S	2120.2148	1060.6110	2103.1882	1052.0978	2102.2042	1051.6057	17
6	672.3385	336.6729	655.3120	328.1596	654.3280	327.6676	L	2033.1827	1017.0950	2016.1562	1008.5817	2015.1722	1008.0897	16
7	856.4597	428.7335	839.4332	420.2202	838.4491	419.7282	K	1920.0987	960.5530	1903.0721	952.0397	1902.0881	951.5477	15
8	987.5002	494.2537	970.4736	485.7405	969.4896	485.2484	H	1735.9775	868.4924	1718.9510	859.9791	1717.9669	859.4871	14
9	1084.5530	542.7801	1067.5264	534.2668	1066.5424	533.7748	P	1604.9370	802.9721	1587.9105	794.4589	1586.9265	793.9669	13
10	1282.6893	641.8485	1265.6632	633.3353	1264.6792	632.8432	K	1507.8843	754.4458	1490.8577	745.9325	1489.8737	745.4405	12
11	1381.7582	691.3827	1364.7316	682.8695	1363.7476	682.3775	V	1309.7474	655.3774	1292.7209	646.8641	1291.7369	646.3721	11
12	1496.7851	748.8952	1479.7586	740.3829	1478.7746	739.8909	D	1210.6790	605.8431	1193.6525	597.3299	1192.6684	596.8379	10
13	1609.8692	805.4382	1592.8427	796.9250	1591.8586	796.4330	L	1095.6521	548.3297	1078.6255	539.8164	1077.6415	539.3244	9
14	1808.0050	904.5067	1790.9795	895.9934	1789.9955	895.5014	K	982.5680	491.7876	965.5415	483.2744	964.5574	482.7824	8
15	1865.0275	933.0174	1848.0009	924.5041	1847.0169	924.0121	G	784.4312	392.7192	767.4046	384.2060	766.4206	383.7139	7
16	1962.0803	981.5439	1945.0637	973.0305	1944.0697	972.5385	P	727.4097	364.2085	710.3832	355.6952	709.3991	355.2032	6
17	2090.1388	1045.5731	2073.1123	1037.0598	2072.1283	1036.5678	Q	630.3570	315.6821	613.3304	307.1688	612.3464	306.6768	5
18	2189.2072	1095.1073	2172.1807	1086.5940	2171.1967	1086.1020	V	502.2984	251.6528	485.2718	243.1395	484.2878	242.6475	4
19	2318.2498	1159.6286	2301.2233	1151.1153	2300.2393	1150.6233	E	403.2300	202.1186	386.2034	193.6053	385.2194	193.1133	3
20	2417.3183	1209.1628	2400.2917	1200.6495	2399.3077	1200.1575	V	274.1874	137.5973	257.1608	129.0840			2
21							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **KKAAAAAWEPPSSGNGTAR**
Found in **Q9P258**, Protein RCC2 OS=Homo sapiens GN=RCC2 PE=1 SV=2

Match to Query 15937: 2027.009922 from(676.677250,3+) intensity(207188.5625)
Title: File1322 Spectrum9575 scans: 10284
Data file I:\2013-9-13-Hela-Prometh-Frl-ZW.mgf

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



Monoisotopic mass of neutral peptide Mr(calc): 2027.0
Fixed modifications: Carbamidomethyl (C) (apply to specific)
Variable modifications:
K1 : Propionyl-Methylation (K)
K2 : Propionyl (K)
Ions Score: 40 **Expect:** 0.1
Matches : 43/196 fragment ions using 104 most intense peak

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624			K							19
2	383.2653	192.1363	366.2387	183.6230			K	1829.8777	915.4425	1812.8511	906.9292	1811.8671	906.4372	18
3	454.3024	227.6548	437.2758	219.1416			A	1645.7565	823.3819	1628.7299	814.8686	1627.7459	814.3766	17
4	525.3395	263.1734	508.3130	254.6601			A	1574.7194	787.8633	1557.6928	779.3501	1556.7088	778.8580	16
5	596.3766	298.6920	579.3501	290.1787			A	1503.6828	752.3448	1486.6557	743.8315	1485.8717	743.3395	15
6	667.4137	334.2105	650.3872	325.6972			A	1432.6451	716.8262	1415.6186	708.3129	1414.6346	707.8209	14
7	738.4509	369.7291	721.4243	361.2158			A	1361.6080	681.3077	1344.5815	672.7944	1343.5975	672.3024	13
8	924.5302	462.7687	907.5038	454.2554			W	1290.5709	645.7891	1273.5444	637.2758	1272.5604	636.7838	12
9	1053.5728	527.2900	1036.5462	518.7767	1035.5622	518.2847	E	1104.4916	552.7494	1087.4651	544.2362	1086.4810	543.7442	11
10	1182.6154	591.8113	1165.5888	583.2980	1164.6048	582.8060	E	975.4490	488.2281	958.4225	479.7149	957.4394	479.2229	10
11	1279.6681	640.3377	1262.6416	631.8244	1261.6576	631.3324	P	846.4064	423.7068	829.3799	415.1936	828.3969	414.7016	9
12	1366.7001	683.8537	1349.6736	675.3404	1348.6896	674.8484	S	749.3537	375.1805	732.3271	366.6672	731.3431	366.1752	8
13	1453.7322	727.3697	1436.7058	718.8564	1435.7216	718.3644	S	662.3216	331.6645	645.2951	323.1512	644.3111	322.6592	7
14	1510.7536	755.8805	1493.7271	747.3672	1492.7431	746.8752	G	575.2896	288.1484	558.2631	279.6352	557.2790	279.1432	6
15	1624.7966	812.9019	1607.7700	804.3886	1606.7880	803.8966	N	518.2681	259.6377	501.2416	251.1244	500.2576	250.6324	5
16	1681.8180	841.4127	1664.7915	832.8994	1663.8075	832.4074	G	404.2252	202.6162	387.1987	194.1030	386.2146	193.6110	4
17	1782.8657	891.9365	1765.8392	883.4232	1764.8551	882.9312	T	347.2037	174.1055	330.1772	165.5922	329.1932	165.1002	3
18	1853.9028	927.4550	1836.8763	918.9418	1835.8923	918.4498	A	246.1561	123.5817	229.1295	115.0684			2
19							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **KASGPPVSELITKAVAASKER**

Found in **P10412**, Histone H1.4 OS=Homo sapiens GN=HIST1H1E PE=1 SV=2

Match to Query 15046: 2320.301472 from(774.441100, 3+) intensity(36450.2734)

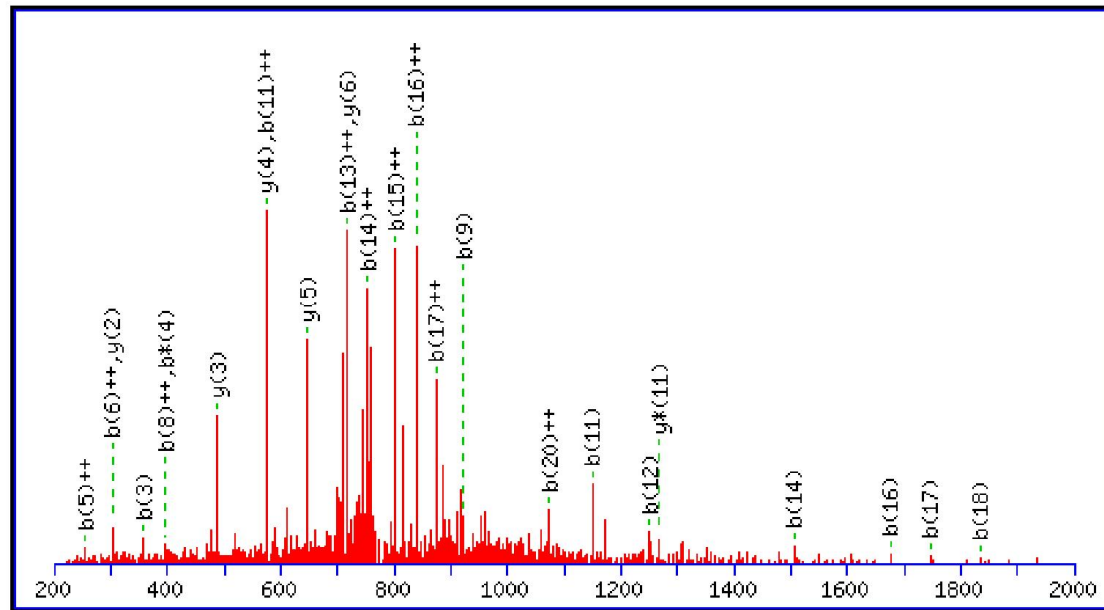
Title: File1314 Spectrum18970 scans: 20490

Data file I:\2013-9-13-Hela-Prometh-Fr16-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2320.3002

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

Variable modifications:

K1 : Propionyl-Methylation (K)

K13 : Propionyl (K)

K19 : Propionyl (K)

Ions Score: 62 **Expect: 0.00056**

Matches : 25/234 fragment ions using 35 most intense peaks ([help](#))

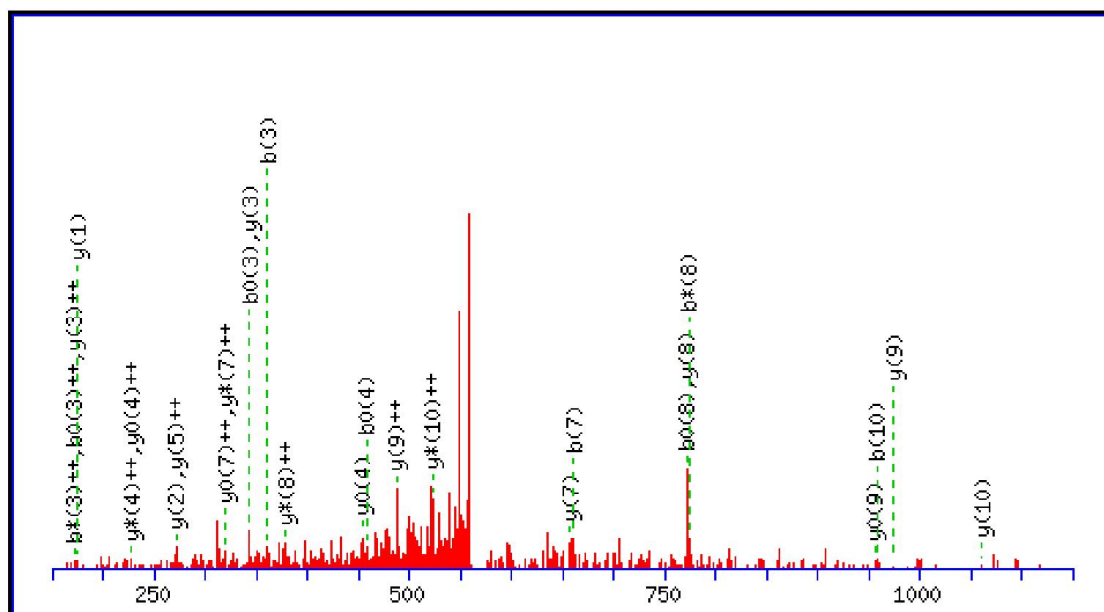
#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624			K							21
2	270.1812	135.5942	253.1547	127.0810			A	2123.1707	1062.0890	2106.1441	1063.5757	2105.1601	1063.0837	20
3	357.2138	173.1103	340.1867	170.5970	339.2027	170.1050	S	2052.1335	1026.5704	2035.1070	1018.0571	2034.1230	1017.5651	19
4	414.2347	207.6210	397.2082	199.1077	396.2241	198.6157	G	1965.1015	983.0544	1948.0750	974.5411	1947.0910	974.0491	18
5	511.2875	256.1474	494.2609	247.6341	493.2769	247.1421	P	1908.0801	954.5437	1891.0535	946.0304	1890.0695	945.5384	17
6	608.3402	304.6738	591.3137	296.1605	590.3297	295.6685	P	1811.0273	906.0173	1794.0007	897.5040	1793.0167	897.0120	16
7	707.4087	354.2080	690.3821	345.6947	689.3981	345.2027	V	1713.9745	857.4909	1696.9480	848.9776	1695.9640	848.4856	15
8	794.4407	397.7240	777.4141	389.2107	776.4301	388.7187	S	1614.9061	807.9567	1597.8796	799.4434	1596.8955	798.9514	14
9	923.4833	462.2453	906.4567	453.7320	905.4727	453.2400	K	1527.8741	764.4407	1510.8475	755.9274	1509.8635	755.4354	13
10	1036.5673	518.7873	1019.5408	510.2740	1018.5568	509.7820	L	1398.8315	699.9194	1381.8049	691.4061	1380.8209	690.9141	12
11	1149.6514	575.3293	1132.6249	566.8161	1131.6408	566.3241	I	1285.7474	643.3774	1268.7209	634.8641	1267.7369	634.3721	11
12	1250.6991	625.8532	1233.6728	617.3399	1232.6885	616.8479	T	1172.6634	586.8353	1155.6368	578.3220	1154.6528	577.8300	10
13	1434.8203	717.9138	1417.7937	709.4005	1416.8097	708.9085	K	1071.6157	536.3115	1054.5891	527.7982	1053.6051	527.3062	9
14	1505.8574	753.4320	1488.8308	744.9190	1487.8468	744.4270	A	887.4945	444.2509	870.4680	435.7376	869.4839	435.2456	8
15	1604.9258	802.9650	1587.8992	794.4533	1586.9152	793.9612	V	816.4574	408.7323	799.4308	400.2191	798.4468	399.7271	7
16	1675.9629	838.4851	1658.9364	829.9718	1657.9523	829.4798	A	717.3890	359.1981	700.3624	350.6849	699.3784	350.1928	6
17	1747.0000	874.0036	1729.9735	865.4904	1728.9894	864.9984	A	546.3519	323.8796	629.3253	315.1663	628.3413	314.6743	5
18	1834.0320	917.5197	1817.0055	909.0064	1816.0215	908.5144	S	575.3148	288.1610	558.2882	279.6477	557.3042	279.1557	4
19	2018.1532	1009.5802	2001.1267	1001.0670	2000.1427	1000.5750	K	488.2827	244.6450	471.2562	236.1317	470.2722	235.6397	3
20	2147.1958	1074.1015	2130.1693	1065.5883	2129.1852	1065.0963	K	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
21							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 5212: 1131.578468 from(566.796510, 2+) intensity(5204.7188)

Title: File1314 Spectrum3445 scans: 3985

Data file I:\2013-9-13-Hela-Prometh-Fri16-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc)**: 1131.5793

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

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

Ions Score: 23 Expect: 2.5

Matches : 27/108 fragment ions using 77 most intense peak

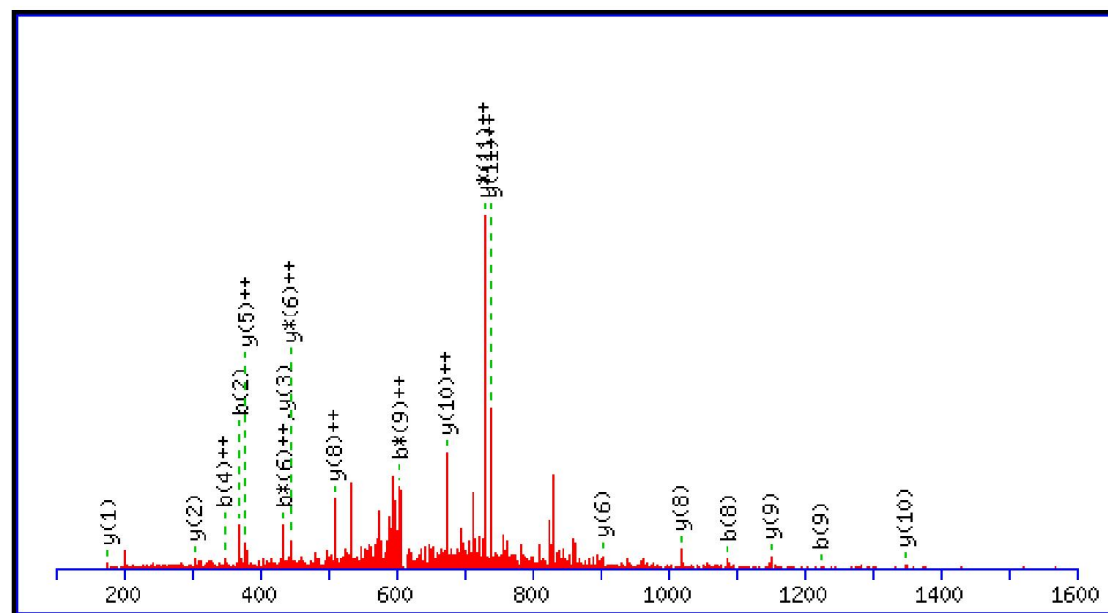
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							11
2	159.0764	80.0418			141.0659	71.0366	S	1061.5494	531.2784	1044.5229	522.7651	1043.5389	522.2731	10
3	361.2354	181.1214	344.2089	172.6081	343.2249	172.1161	K	974.5174	487.7623	957.4909	479.2491	956.5069	478.7571	9
4	476.2624	238.6348	459.2358	230.1216	458.2518	229.6295	D	772.3584	386.6828	755.3319	378.1696	754.3478	377.6776	8
5	533.2838	267.1456	516.2573	258.6323	515.2733	258.1403	G	657.3315	329.1694	640.3049	320.6561	639.3209	320.1641	7
6	590.3053	295.6563	573.2788	287.1430	572.2947	286.6510	G	600.3100	300.6586	583.2835	292.1454	582.2994	291.6534	6
7	661.3424	331.1748	644.3159	322.6616	643.3319	322.1696	A	543.2885	272.1479	526.2620	263.6346	525.2780	263.1426	5
8	790.3850	395.6961	773.3585	387.1829	772.3744	386.6909	E	472.2514	236.6293	455.2249	228.1161	454.2409	227.6241	4
9	861.4221	431.2147	844.3956	422.7014	843.4116	422.2094	A	343.2088	172.1081	326.1823	163.5948			3
10	958.4749	479.7411	941.4483	471.2278	940.4643	470.7358	P	272.1717	136.5895	255.1452	128.0762			2
11							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 12072: 1842.939462 from(615.320430, 3+) intensity(31119.9961)

Title: File1314 Spectrum13036 scans: 14285

Data file I:\2013-9-13-Hela-Prometh-Fr16-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1842.9385**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or 1)**Variable modifications:****K1** : Propionyl (K)**K2** : Propionyl (K)**K4** : Propionyl-Methylation (K)**Ions Score:** 27 **Expect:** 2.1**Matches** : 19/96 fragment ions using 41 most intense peaks ([help](#))

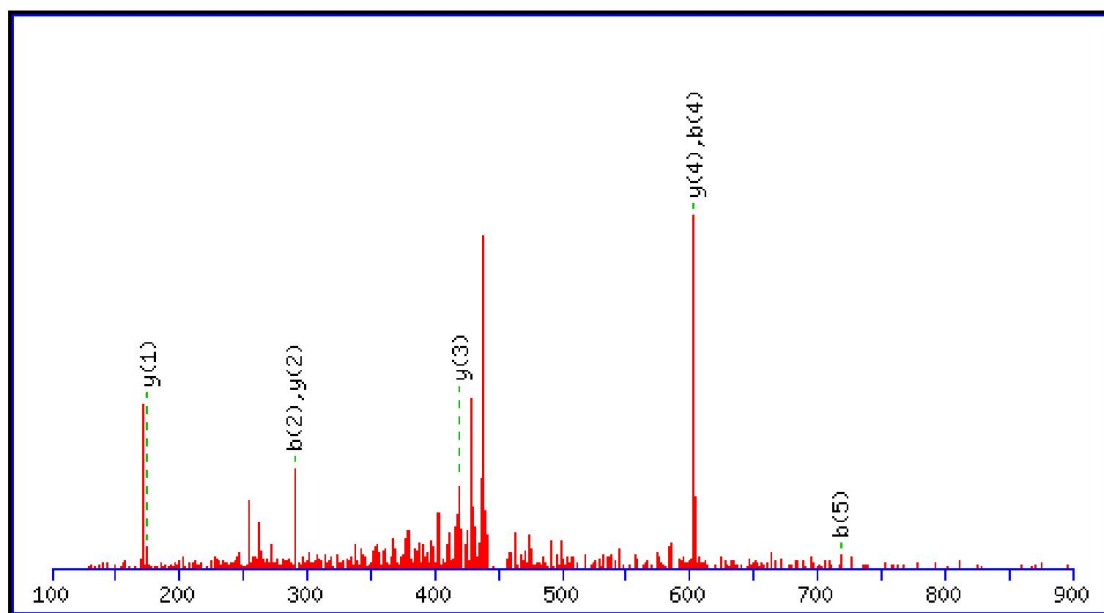
#	b	b ⁺⁺	b ⁺	b ⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546	K					13
2	369.2496	185.1285	352.2231	176.6152	K	1659.8247	830.4160	1642.7981	821.9027	12
3	497.3082	249.1577	480.2817	240.6445	Q	1475.7085	738.3554	1458.6769	729.8421	11
4	695.4450	348.2262	678.4185	339.7129	K	1347.6449	674.3261	1330.6183	665.8128	10
5	826.4855	413.7464	809.4590	405.2331	K	1149.5081	575.2577	1132.4815	566.7444	9
6	883.5070	442.2571	866.4804	433.7439	G	1018.4676	509.7374	1001.4410	501.2242	8
7	940.5285	470.7679	923.5019	462.2546	G	961.4461	481.2267	944.4196	472.7134	7
8	1087.5969	544.3021	1070.5703	535.7888	F	904.4247	452.7160	887.3981	444.2027	6
9	1224.6558	612.8315	1207.6292	604.3183	H	757.3562	379.1818	740.3297	370.6685	5
10	1410.7351	705.8712	1393.7085	697.3579	W	620.2973	310.6523	603.2708	302.1390	4
11	1541.7756	771.3914	1524.7490	762.8782	K	434.2180	217.6126	417.1915	209.0994	3
12	1669.8342	835.4207	1652.8076	826.9074	Q	303.1775	152.0924	286.1510	143.5791	2
13					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 2137: 891.493068 from(446.753810, 2+) intensity(14596.0762)

Title: File1314 Spectrum3221 scans: 3737

Data file I:\2013-9-13-Hela-Prometh-Fri16-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 891.4934**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-(13CD3)Meth**K3** : Propionyl (K)**Ions Score:** 22 **Expect:** 2.8**Matches** : 7/56 fragment ions v

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							6
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	K	805.4687	403.2380	788.4421	394.7247	787.4581	394.2327	5
3	474.3195	237.6634	457.2929	229.1501	456.3089	228.6581	K	603.3097	302.1585	586.2831	293.6452	585.2991	293.1532	4
4	603.3621	302.1847	586.3355	293.6714	585.3515	293.1794	E	419.1885	210.0979	402.1619	201.5846	401.1779	201.0926	3
5	718.3890	359.6945	701.3625	351.1849	700.3785	350.6929	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
6							R	175.1190	88.0631	158.0924	79.5498			1

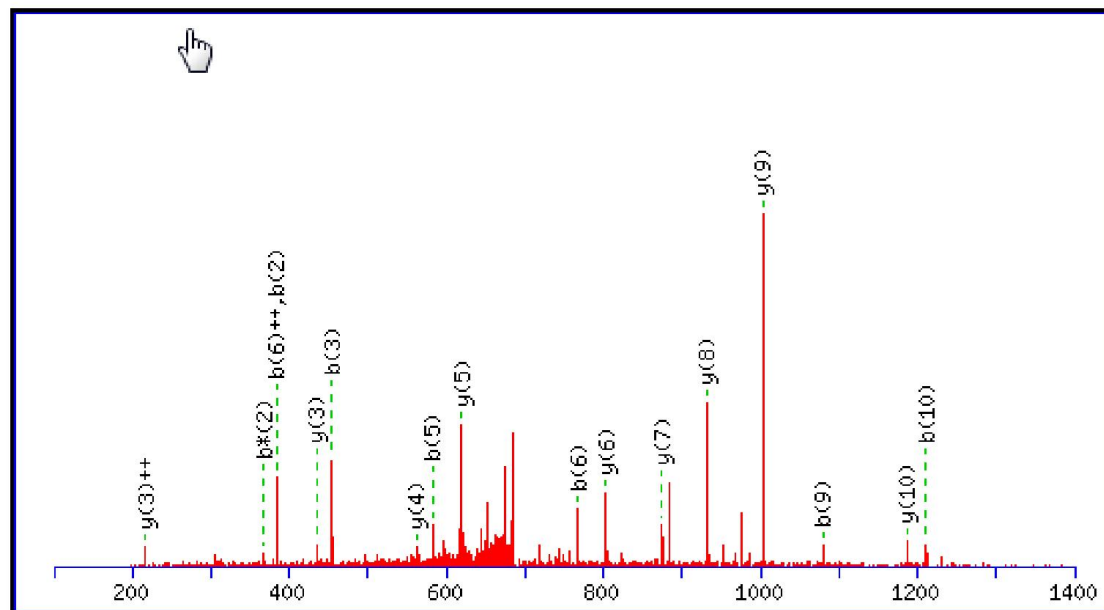
Found in **H7C2Q8**, EBNA1 binding protein 2, isoform CRA_d OS=Homo sapiens GN=EBNA1BP2 PE=2 SV=1

Match to Query 6562: 1383.763288 from(692.888920, 2+) intensity(153472.7656)

Title: File1322 Spectrum6440 scans: 7018

Data file I:\2013-9-13-Hela-Prometh-Fr1-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1383.7656**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or**Variable modifications:****K1** : Propionyl-Methylation (K)**K2** : Propionyl (K)**K6** : Propionyl (K)**Ions Score:** 48 **Expect:** 0.014**Matches** : 17/80 fragment ions using 36 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ^{*++}	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
1	199.1441	100.0757	182.1176	91.5624	K					11
2	383.2653	192.1363	366.2387	183.6230	K	1186.6361	593.8217	1169.6096	585.3084	10
3	454.3024	227.6548	437.2758	219.1416	A	1002.5149	501.7611	985.4884	493.2478	9
4	511.3239	256.1656	494.2973	247.6523	G	931.4778	466.2425	914.4513	457.7293	8
5	582.3610	291.6841	565.3344	283.1709	A	874.4563	437.7318	857.4298	429.2185	7
6	766.4822	383.7447	749.4556	375.2314	K	803.4192	402.2133	786.3927	393.7000	6
7	823.5036	412.2554	806.4771	403.7422	G	619.2981	310.1527	602.2715	301.6394	5
8	951.5622	476.2847	934.5356	467.7715	Q	562.2766	281.6419	545.2500	273.1287	4
9	1079.6208	540.3140	1062.5942	531.8007	Q	434.2180	217.6126	417.1915	209.0994	3
10	1210.6613	605.8343	1193.6347	597.3210	I	306.1594	153.5834	289.1329	145.0701	2
11					R	175.1190	88.0631	158.0924	79.5498	1

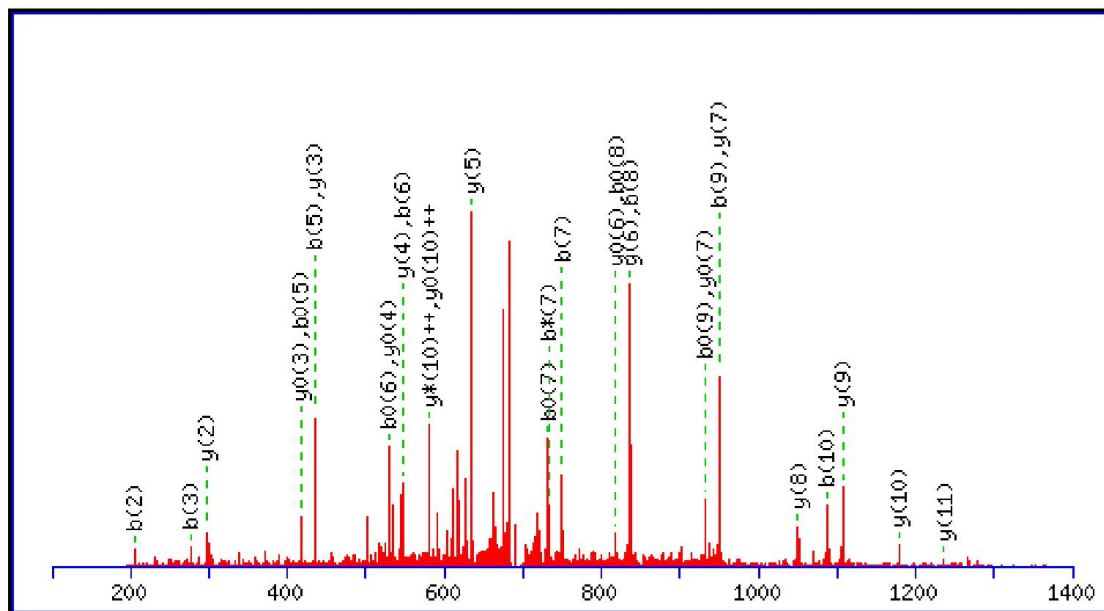
Found in **Q5HYI8**, Rab-like protein 3 OS=Homo sapiens GN=RABL3 PE=1 SV=1

Match to Query 4724: 1381.714088 from(691.864320, 2+) intensity(154506.0469)

Title: File1296 Spectrum10302 scans: 11892

Data file I:\2013-9-12-Hela-Prometh-Fri14-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1381.7151**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues)**Variable modifications:****K7** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 80 **Expect:** 5.8e-006**Matches** : 30/102 fragment ions using 36 most intense peaks (h)

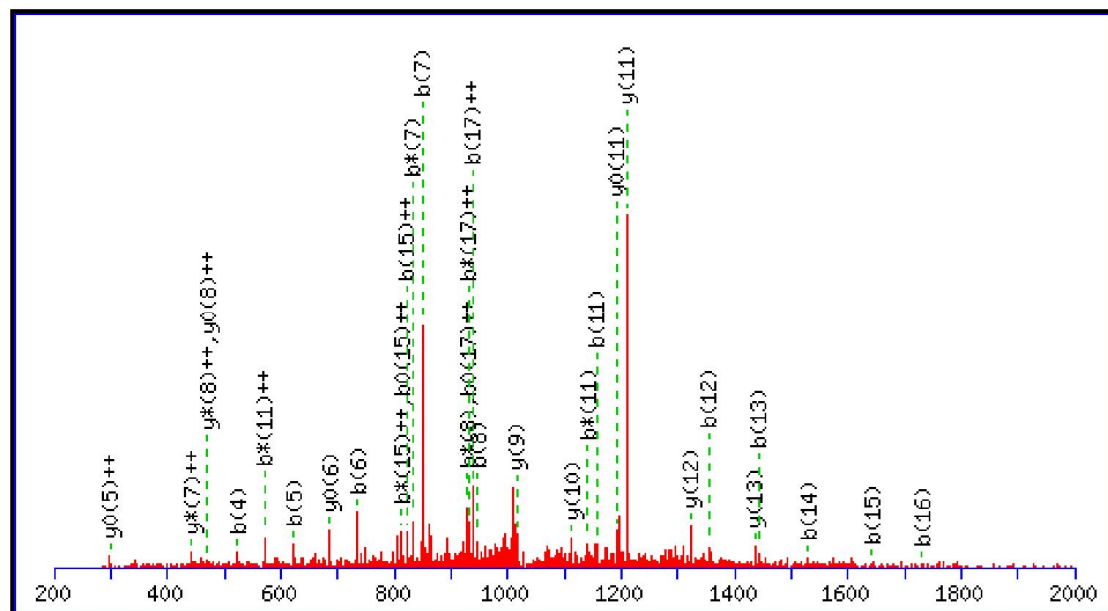
#	b	b ⁺⁺	b [*]	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	148.0757	74.5415					F							12
2	205.0972	103.0522					G	1235.6539	618.3306	1218.6274	609.8173	1217.6434	609.3253	11
3	276.1343	138.5708					A	1178.6325	589.8199	1161.6059	581.3066	1160.6219	580.8146	10
4	333.1557	167.0815					G	1107.5953	554.3013	1090.5688	545.7880	1089.5848	545.2960	9
5	434.2034	217.6053			416.1928	208.6001	T	1050.5739	525.7906	1033.5473	517.2773	1032.5633	516.7853	8
6	547.2875	274.1474			529.2769	265.1421	L	949.5262	475.2667	932.4996	466.7535	931.5156	466.2615	7
7	749.4465	375.2269	732.4199	366.7136	731.4359	366.2216	K	836.4421	418.7247	819.4156	410.2114	818.4316	409.7194	6
8	836.4785	418.7429	819.4520	410.2296	818.4680	409.7376	S	634.2831	317.6452			616.2726	308.6399	5
9	949.5626	475.2849	932.5360	466.7717	931.5520	466.2796	L	547.2511	274.1292			529.2405	265.1239	4
10	1086.6215	543.8144	1069.5949	535.3011	1068.6109	534.8091	H	434.1670	217.5872			416.1565	208.5819	3
11	1249.6848	625.3460	1232.6583	616.3328	1231.6743	616.3408	Y	297.1081	149.0577			279.0975	140.0524	2
12							D	134.0448	67.5260			116.0342	58.5207	1

Match to Query 11319: 2057.057708 from(1029.536130, 2+) intensity(86979.5938)

Title: File1296 Spectrum11710 scans: 13359

Data file I:\2013-9-12-Hela-Prometh-Fr14-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 2057.0582**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or**Variable modifications:****K4** : Propionyl (K)**K12** : Propionyl-Methylation (K)**Ions Score:** 29 **Expect:** 1.4**Matches** : 32/184 fragment ions using 103 most intense peaks ([help](#))

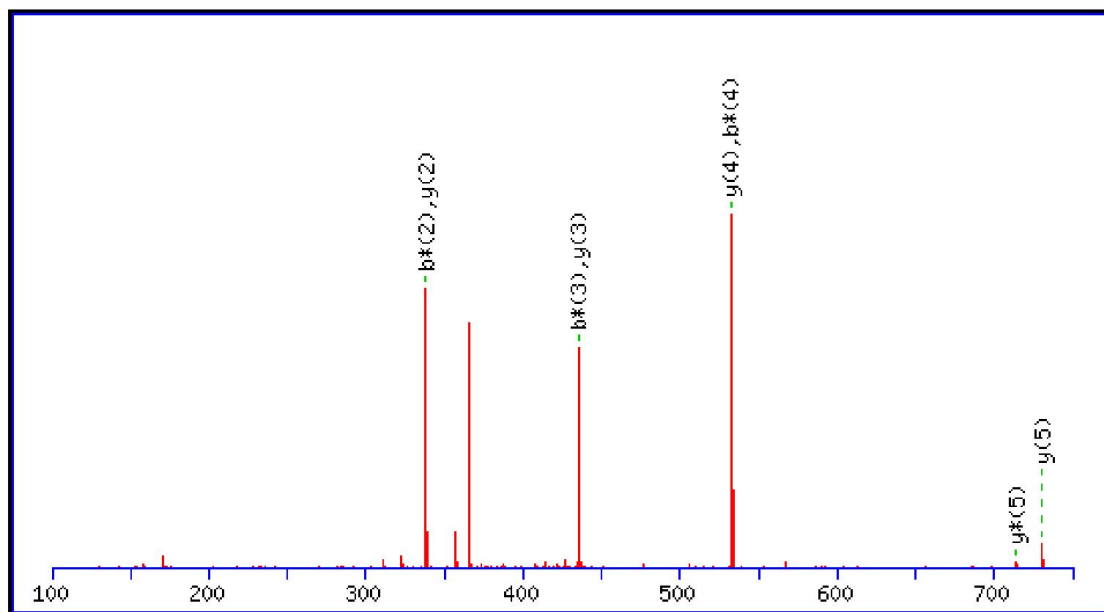
#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							18
2	225.0982	113.0527			207.0877	104.0475	H	1971.0334	986.0204	1954.0069	977.5071	1953.0229	977.0151	17
3	339.1411	170.0742	322.1146	161.9609	321.1306	161.0689	N	1833.9745	917.4909	1816.9480	908.9776	1815.9640	908.4856	16
4	523.2623	262.1348	506.2358	253.6215	505.2518	253.1295	K	1719.9316	860.4694	1702.9051	851.9562	1701.9210	851.4642	15
5	622.3307	311.6690	605.3042	303.1557	604.3202	302.6637	V	1535.8104	768.4088	1518.7839	759.8956	1517.7999	759.4036	14
6	735.4148	368.2110	718.3882	359.6978	717.4042	359.2058	L	1436.7420	718.8746	1419.7155	710.3614	1418.7314	709.8694	13
7	849.4577	425.2325	832.4312	416.7192	831.4472	416.2272	N	1323.6579	662.3326	1306.6314	653.8193	1305.6474	653.3273	12
8	946.5105	473.7589	929.4839	465.2456	928.4999	464.7536	P	1209.6150	605.3111	1192.5885	596.7979	1191.6045	596.3069	11
9	1043.5633	522.2853	1026.5367	513.7720	1025.5527	513.2800	P	1112.5623	556.7848	1095.5357	548.2715	1094.5517	547.7795	10
10	1100.5847	550.7960	1083.5682	542.2827	1082.5742	541.7907	G	1015.5095	508.2584	998.4829	499.7451	997.4989	499.2531	9
11	1157.6062	579.3067	1140.5796	570.7935	1139.5956	570.3014	G	958.4880	479.7477	941.4615	471.2344	940.4775	470.7424	8
12	1355.7430	678.3751	1338.7165	669.8619	1337.7324	669.3699	K	901.4666	451.2369	884.4400	442.7236	883.4560	442.2316	7
13	1442.7750	721.8912	1425.7485	713.3779	1424.7645	712.8859	S	703.3297	352.1685			685.3192	343.1632	6
14	1529.8071	765.4072	1512.7805	756.9939	1511.7965	756.4019	S	616.2977	308.6525			598.2871	299.6472	5
15	1642.8917	821.9492	1625.8646	813.4359	1624.8806	812.9439	I	529.2657	265.1365			511.2551	256.1312	4
16	1729.9252	865.4652	1712.8966	856.9519	1711.9126	856.4599	S	416.1816	208.5944			398.1710	199.5892	3
17	1876.9916	938.9994	1859.9650	930.4861	1858.9810	929.9941	F	329.1496	165.0784					2
18					182.0812	91.5442	Y							1

Match to Query 965: 886.527628 from(444.271090, 2+) intensity(2175662.0000)

Title: File1296 Spectrum11768 scans: 13420

Data file I:\2013-9-12-Hela-Prometh-Fri14-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 885.5184**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-Methylation (K)**Ions Score:** 33 **Expect:** 0.3**Matches :** 8/40 fragment ions using 7 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺	#
1	157.1084	79.0578	140.0818	70.5446	R					6
2	355.2452	178.1262	338.2187	169.6130	K	730.4246	365.7160	713.3981	357.2027	5
3	452.2980	226.6526	435.2714	218.1394	P	532.2878	266.6475	515.2613	258.1343	4
4	549.3507	275.1790	532.3242	266.6657	P	435.2350	218.1212	418.2085	209.6079	3
5	712.4141	356.7107	695.3875	348.1974	Y	338.1823	169.5948	321.1557	161.0815	2
6					R	175.1190	88.0631	158.0924	79.5498	1

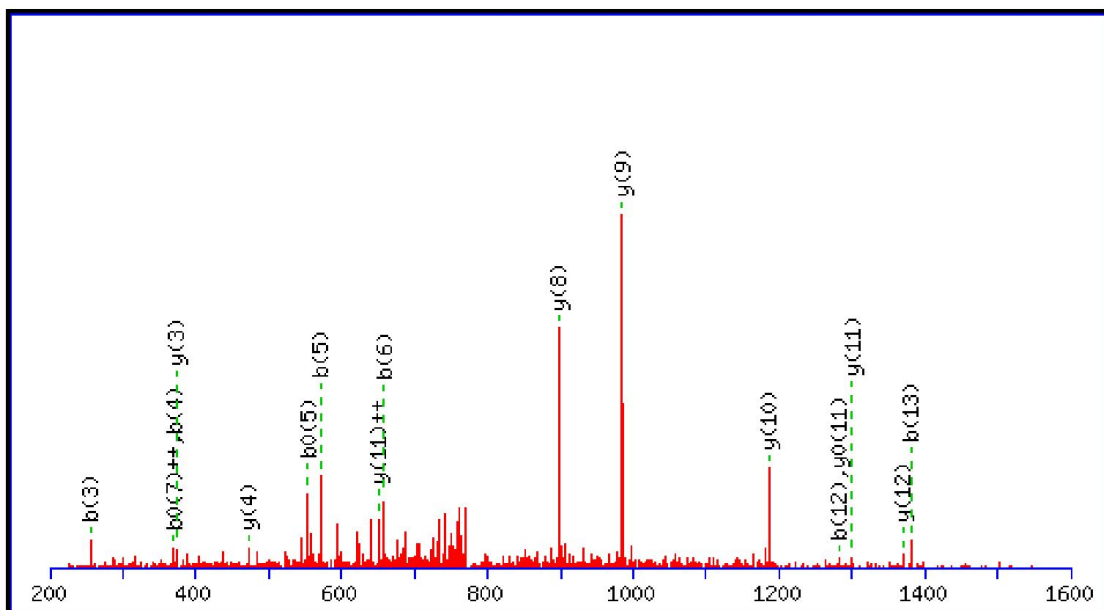
Found in **Q9Y2W1**, Thyroid hormone receptor-associated protein 3 OS=Homo sapiens GN=THRAP3 PE=1 SV=2

Match to Query 6270: 1553.942228 from(777.978390, 2+) intensity(118495.4531)

Title: File1296 Spectrum10409 scans: 12004

Data file I:\2013-9-12-Hela-Prometh-Fr14-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc): 1553.9414**

Fixed modifications: Carbamidomethyl (C) (apply to specified residues)

Variable modifications:

K5 : Propionyl-(13CD3)Methyl (K)

Ions Score: 47 Expect: 0.0064

Matches : 17/140 fragment ions using 27 most intense peaks [\(help\)](#)

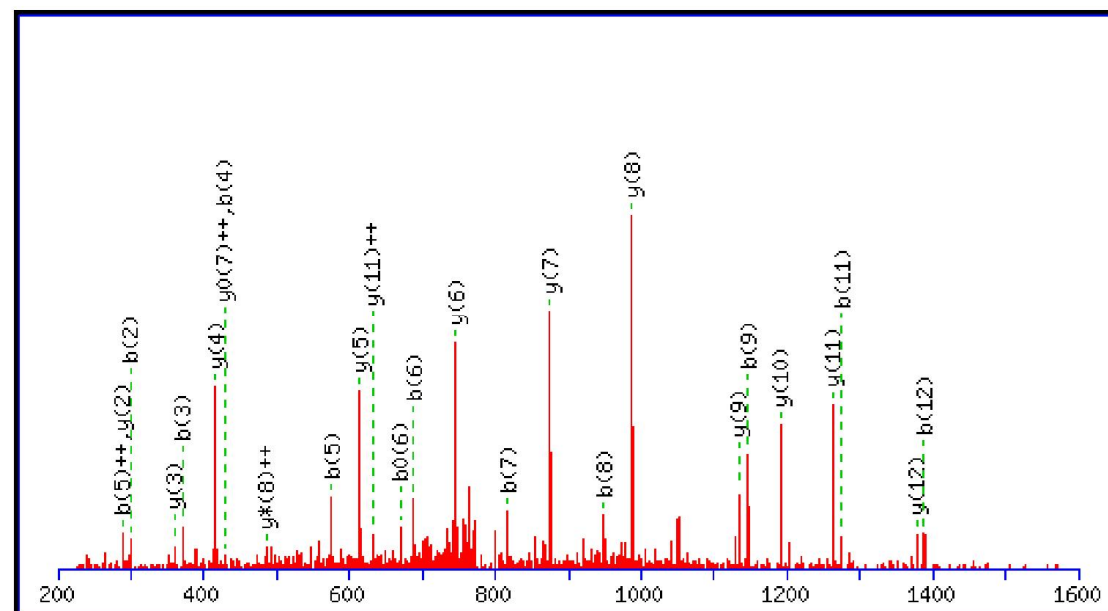
#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							14
2	185.0921	93.0497			167.0815	84.0444	P	1467.9166	734.4619	1450.8901	725.9487	1449.9060	725.4567	13
3	256.1292	128.5682			238.1186	119.5629	A	1370.8638	685.9356	1353.8373	677.4223	1352.8533	676.9303	12
4	369.2132	185.1103			351.2027	176.1050	L	1299.8267	650.4170	1282.8002	641.9037	1281.8162	641.4117	11
5	571.3723	286.1898	554.3457	277.6765	553.3617	277.1845	K	1186.7427	593.8750	1169.7161	585.3617	1168.7321	584.8697	10
6	658.4043	329.7058	641.3777	321.1925	640.3937	320.7005	S	984.5837	492.7955	967.5571	484.2822	966.5731	483.7902	9
7	755.4571	378.2322	738.4305	369.7189	737.4465	369.2269	P	897.5516	449.2795	890.5251	440.7662	879.5411	440.2742	8
8	868.5411	434.7742	851.5146	426.2609	850.5305	425.7689	L	800.4989	400.7531	783.4723	392.2398	782.4883	391.7478	7
9	996.5997	498.8035	979.5731	490.2902	978.5891	489.7982	Q	687.4148	344.2110	670.3883	335.6978	669.4042	335.2058	6
10	1083.6317	542.3195	1066.6052	533.8082	1065.6212	533.3142	S	559.3562	280.1817	542.3297	271.6685	541.3457	271.1765	5
11	1182.7001	591.8537	1165.6736	583.3404	1164.6896	582.8484	V	472.3242	236.6657	455.2976	228.1525			4
12	1281.7685	641.3879	1264.7420	632.8746	1263.7580	632.3826	V	373.2558	187.1315	356.2292	178.6183			3
13	1380.8370	690.9221	1363.8104	682.4088	1362.8264	681.9168	V	274.1874	137.5973	257.1608	129.0840			2
14							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 6306: 1560.834568 from(781.424560, 2+) intensity(101645.4922)

Title: File1296 Spectrum14241 scans: 15996

Data file I:\2013-9-12-Hela-Prometh-Fr14-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1560.8334**Fixed modifications:** Carbamidomethyl (C) (apply to specified)**Variable modifications:****K1** : Propionyl (K)**K9** : Propionyl-Methylation (K)**Ions Score:** 78 **Expect:** 1.4e-005**Matches** : 26/130 fragment ions using 40 most intense peaks

#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							13
2	300.1554	150.5813	283.1288	142.0681	282.1448	141.5761	D	1377.7195	639.3634	1360.6929	680.8501	1359.7089	680.3581	12
3	371.1925	186.0999	354.1660	177.5866	353.1819	177.0946	A	1262.6926	631.8499	1245.6660	623.3366	1244.6820	622.8446	11
4	428.2140	214.6106	411.1874	206.0974	410.2034	205.6053	G	1191.6554	596.3314	1174.6289	587.8181	1173.6449	587.3261	10
5	575.2824	288.1448	558.2558	279.6316	557.2718	279.1396	F	1134.6340	567.8206	1117.6074	559.3074	1116.6234	558.8153	9
6	688.3665	344.6889	671.3399	336.1736	670.3559	335.6816	L	987.5656	494.2864	970.5390	485.7731	969.5550	485.2311	8
7	817.4090	409.2082	800.3825	400.6949	799.3985	400.2029	E	874.4815	437.7444	857.4550	429.2311	856.4709	428.7391	7
8	948.4495	474.7284	931.4230	466.2151	930.4390	465.7231	I	745.4389	373.2231	728.4124	364.7098			6
9	1146.5864	573.7968	1129.5598	565.2835	1128.5758	564.7915	K	614.3984	307.7028	597.3719	299.1896			5
10	1203.6078	602.3075	1186.5813	593.7943	1185.5973	593.3023	G	416.2616	208.6344	399.2350	200.1212			4
11	1274.6449	637.8261	1257.6184	629.3128	1256.6344	628.8208	A	359.2401	180.1237	342.2136	171.6104			3
12	1387.7290	694.3681	1370.7025	685.8549	1369.7184	685.3629	L	288.2030	144.6051	271.1765	136.0919			2
13							R	175.1190	88.0631	158.0924	79.5498			1

Found in **Q2TAL8**, Glutamine-rich protein 1 OS=Homo sapiens GN=QRICH1 PE=1 SV=1

Match to Query 8301: 1507.909268 from(754.961910, 2+) intensity(45624.3164)

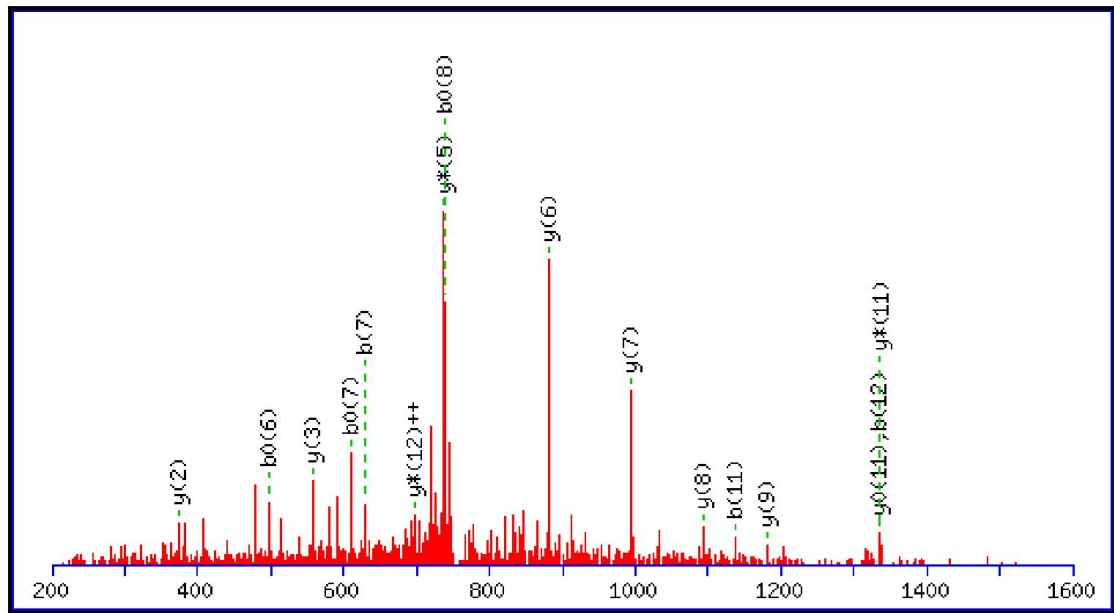
Title: File1264 Spectrum9247 scans: 10947

Data file I:\2013-9-5-Hela-Prometh-Fr13-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1507.9086

Fixed modifications: Carbamidomethyl (C) (apply to specified residues)

Variable modifications:

K11 : Propionyl (K)

K12 : Propionyl-Methylation (K)

Ions Score: 31 **Expect:** 0.3

Matches : 16/110 fragment ions using 26 most intense peaks

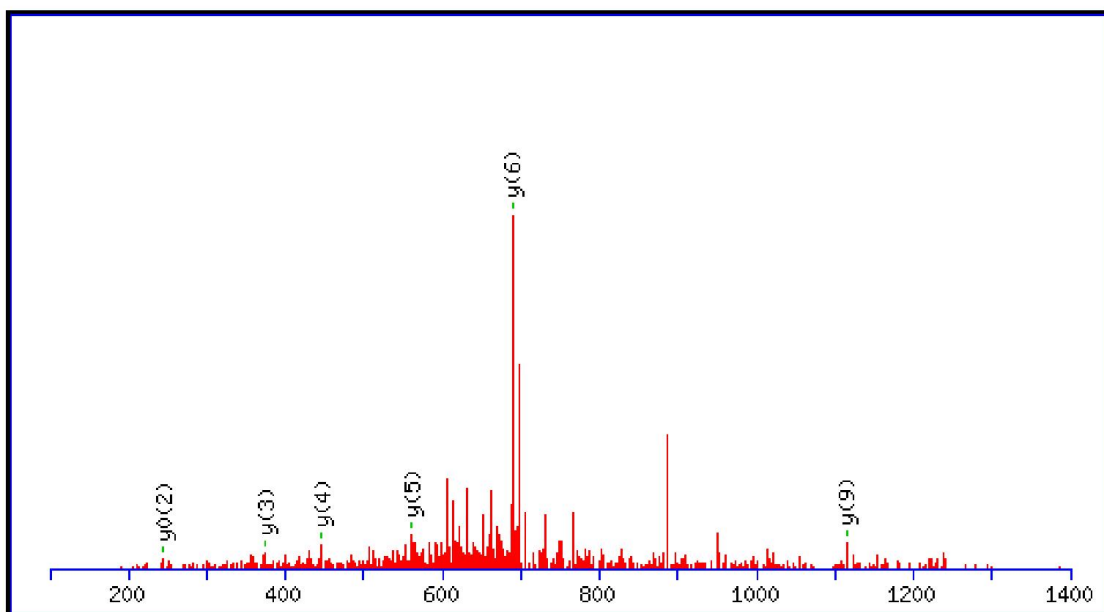
#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							13
2	157.0972	79.0522					G	1409.8475	705.4274	1392.8209	696.9141	1391.8369	696.4221	12
3	258.1448	129.5761			240.1343	120.5708	T	1352.8250	676.9166	1335.7995	668.4034	1334.8154	667.9114	11
4	329.1819	165.0946			311.1714	156.0893	A	1251.7783	626.3928	1234.7518	617.8795	1233.7678	617.3875	10
5	416.2140	208.6106			398.2034	199.6053	S	1180.7418	590.8742	1163.7147	582.3610	1162.7307	581.8690	9
6	515.2824	258.1448			497.2718	249.1395	V	1093.7092	547.3582	1076.6826	538.8450			8
7	628.3665	314.6869			610.3859	305.6816	L	994.6408	497.8240	977.6142	489.3108			7
8	756.4250	378.7162	739.3985	370.2029	738.4145	369.7109	Q	881.5567	441.2820	864.5302	432.7687			6
9	853.4778	427.2425	836.4512	418.7293	835.4672	418.2373	P	753.4981	377.2527	736.4716	368.7394			5
10	952.5462	476.7767	935.5197	468.2635	934.5356	467.7715	V	656.4454	328.7263	639.4188	320.2130			4
11	1136.6674	568.8373	1119.6408	560.3241	1118.6568	559.8320	K	557.3770	279.1921	540.3504	270.6788			3
12	1334.8042	667.9057	1317.7777	659.3925	1316.7936	658.9005	K	373.2558	187.1315	356.2292	178.6183			2
13							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 5785: 1411.814188 from(706.914370, 2+) intensity(23202.8145)

Title: File1278_Spectrum3656 scans: 5066

Data file I:\2013-9-12-Hela-Prometh-Fr12-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc): 1410.8194**

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

Variable modifications:

K1 : Propionyl (K)**K3** : Propionyl-Methylation (K)

Ions Score: 27 Expect: 1.3

Matches : 6/108 fragment ions using 12 most intense peak:

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							11
2	298.2125	149.6099	281.1860	141.0966			L	1227.7056	614.3564	1210.6790	605.8431	1209.6950	605.3511	10
3	496.3493	248.6783	479.3228	240.1650			K	1114.6215	557.8144	1097.5949	549.3011	1096.6109	548.8091	9
4	609.4334	305.2203	592.4069	296.7071			L	916.4847	458.7460	899.4581	450.2327	898.4741	449.7407	8
5	723.4763	362.2418	706.4493	353.7285			N	803.4006	402.2039	786.3741	393.6907	785.3900	393.1987	7
6	852.5189	426.7631	835.4924	418.2498	834.5084	417.7578	E	689.3577	345.1825	672.3311	336.6692	671.3471	336.1772	6
7	966.5619	483.7846	949.5353	475.2713	948.5513	474.7793	N	560.3151	280.6612	543.2885	272.1479	542.3045	271.6559	5
8	1037.5990	519.3031	1020.5724	510.7898	1019.5884	510.2978	A	446.2722	223.6397	429.2456	215.1264	428.2616	214.6344	4
9	1150.6830	575.8452	1133.6565	567.3319	1132.6725	566.8399	I	375.2350	188.1212	368.2085	179.6079	367.2245	179.1159	3
10	1237.7151	619.3612	1220.6885	610.8479	1219.7045	610.3559	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
11							R	175.1190	88.0631	158.0924	79.5498			

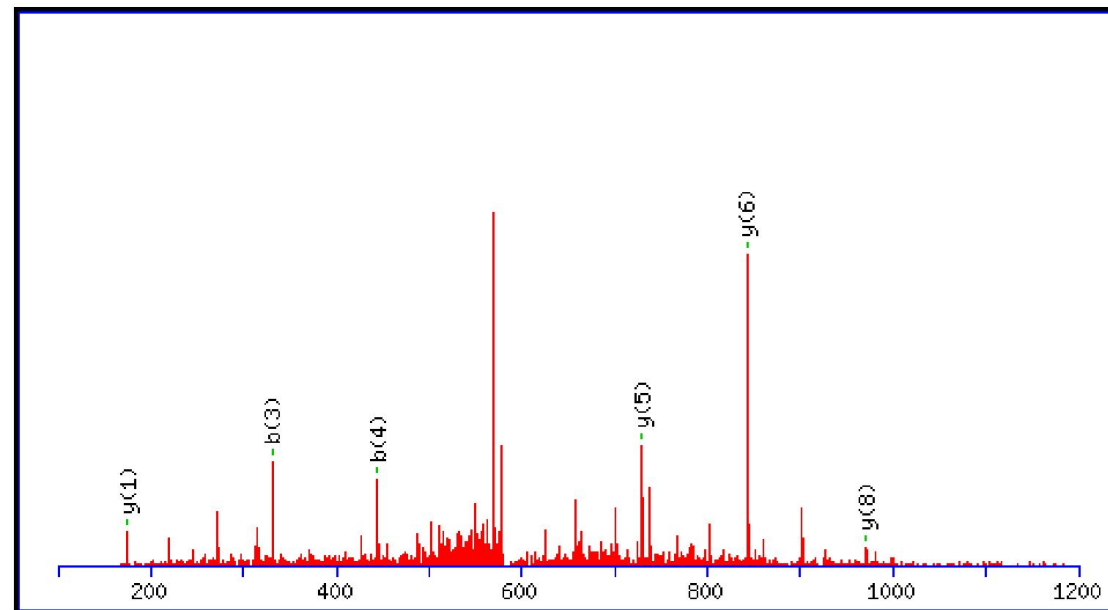
MS/MS Fragmentation of **KAGLGKEKR**Found in **Q8IY81**, pre-rRNA processing protein FTSJ3 OS=Homo sapiens GN=FTSJ3 PE=1 SV=2

Match to Query 3369: 1171.719088 from(586.866820, 2+) intensity(80811.5703)

Title: File1278 Spectrum8690 scans: 10333

Data file I:\2013-9-12-Hela-Prometh-Fr12-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1171.7197**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**K6** : Propionyl (K)**K8** : Propionyl (K)**Ions Score:** 25 **Expect:** 1.2**Matches** : 6/80 fragment ions using 10 most intense

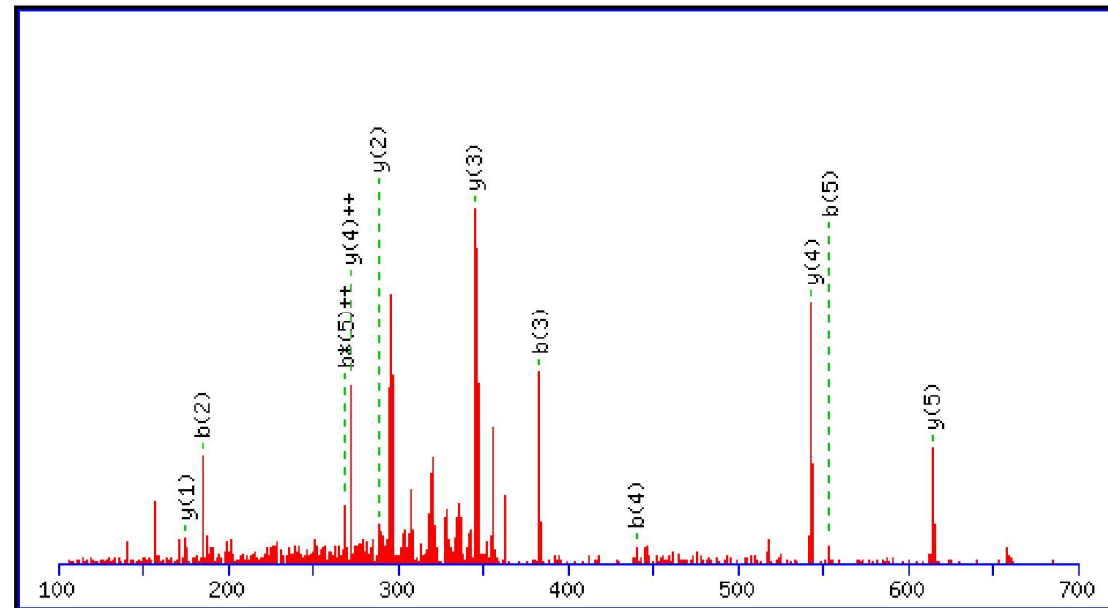
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							9
2	274.2034	137.6053	257.1769	129.0921			A	970.5680	485.7876	953.5415	477.2744	952.5574	476.7824	8
3	331.2249	166.1161	314.1983	157.6028			G	899.5309	450.2691	882.5043	441.7558	881.5203	441.2638	7
4	444.3089	222.6581	427.2824	214.1448			L	842.5094	421.7584	825.4829	413.2451	824.4989	412.7531	6
5	501.3304	251.1688	484.3038	242.6556			G	729.4254	365.2163	712.3988	356.7030	711.4148	356.2110	5
6	685.4516	343.2294	668.4250	334.7162			K	672.4039	336.7056	655.3774	328.1923	654.3933	327.7003	4
7	814.4942	407.7507	797.4676	399.2374	796.4836	398.7454	E	488.2827	244.6450	471.2562	236.1317	470.2722	235.6397	3
8	998.6153	499.8113	981.5888	491.2980	980.6048	490.8060	K	359.2401	180.1237	342.2136	171.6104			2
9							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **IAKGLR**Found in **P47914**, 60S ribosomal protein L29 OS=Homo sapiens GN=RPL29 PE=1 SV=2

Match to Query 87: 726.475448 from(364.245000, 2+) intensity(39742.9180)

Title: File1278 Spectrum4972 scans: 6460

Data file I:\2013-9-12-Hela-Prometh-Fr12-ZW.mgf

Click mouse within Not area to zoom in by factor of two about that pointOr, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 726.4752**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K3** : Propionyl-Methylation (K)**Ions Score:** 22 **Expect:** 1.8**Matches** : 11/36 fragment ions using 36 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	#
1	114.0913	57.5493			I					6
2	185.1285	93.0673			A	614.3984	307.7028	597.3719	299.1896	5
3	383.2653	192.1363	366.2387	183.6230	K	543.3613	272.1843	526.3348	263.6710	4
4	440.2867	220.6470	423.2602	212.1337	G	345.2245	173.1159	328.1979	164.6026	3
5	553.3708	277.1890	536.3443	268.6758	L	288.2030	144.6051	271.1765	136.0919	2
6					R	175.1190	88.0631	158.0924	79.5498	1

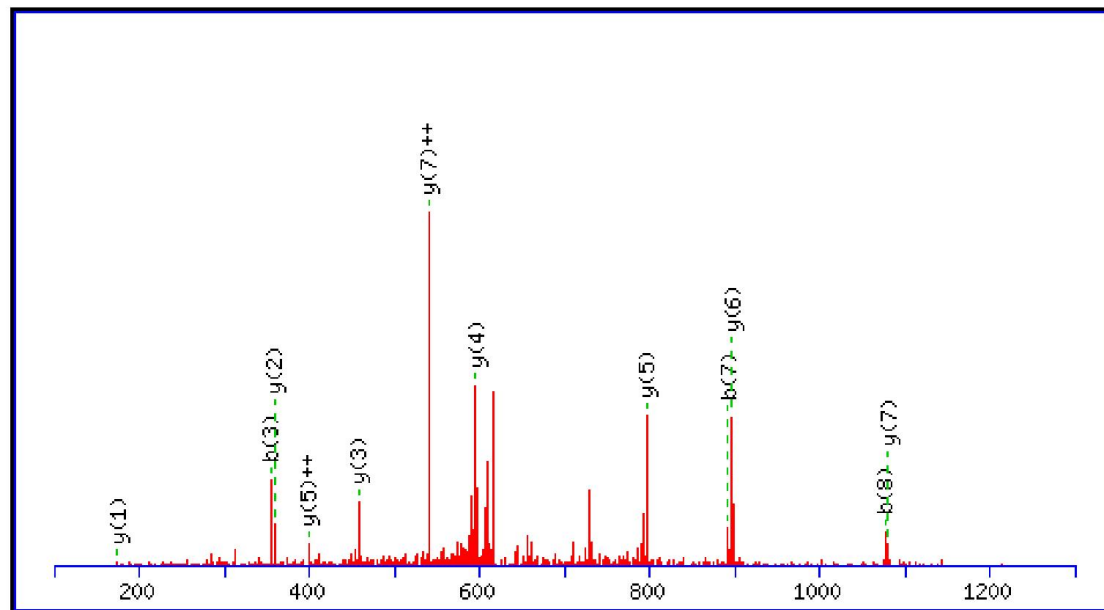
MS/MS Fragmentation of **AVKVKHVKR**Found in **K7EKZ6**, CpG-binding protein (Fragment) OS=Homo sapiens GN=CXXC1 PE=4 SV=1

Match to Query 4018: 1249.813208 from(625.913880, 2+) intensity(58710.2109)

Title: File1278 Spectrum4946 scans: 6433

Data file I:\2013-9-12-Hela-Prometh-Fr12-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1249.8143**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or**Variable modifications:****K3** : Propionyl (K)**K5** : Propionyl-(13CD3)Methyl (K)**K8** : Propionyl (K)**Ions Score:** 35 **Expect:** 0.029**Matches** : 12/60 fragment ions using 31 most intense peaks ([help](#))

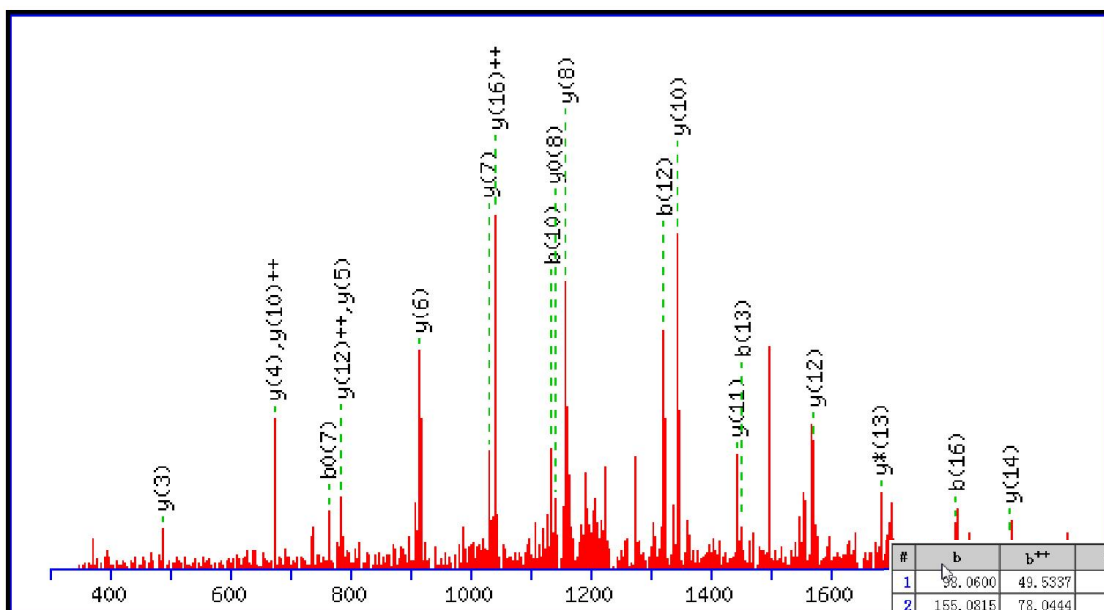
#	b	b ⁺⁺	b*	b ⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	#
1	72.0444	36.5258			A					9
2	171.1128	86.5600			V	1179.7845	590.3959	1162.7579	581.8826	8
3	355.2340	178.1206	338.2074	169.6074	K	1080.7161	540.8617	1063.6895	532.3484	7
4	454.3024	227.6548	437.2758	219.1416	V	896.5949	448.8011	879.5683	440.2878	6
5	656.4614	328.7343	639.4349	320.2211	K	797.5265	399.2669	780.4999	390.7536	5
6	793.5203	397.2638	776.4938	388.7505	H	595.3675	298.1874	578.3409	289.6741	4
7	892.5887	446.7980	875.5622	438.2847	V	458.3085	229.6579	441.2820	221.1446	3
8	1076.7099	538.8586	1059.6834	530.3453	K	359.2407	180.1237	342.2136	171.6104	2
9					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 15645: 2480.235448 from(1241.125000,2+) intensity(43261.8477)

Title: File1278 Spectrum16732 scans: 18710

Data file I:\2013-9-12-Hela-Prometh-Fr12-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 2480.2336

Fixed modifications: Carbamidomethyl (C) (apply to specified

Variable modifications:

K7 : Propionyl-Methylation (K)

K18 : Propionyl (K)

Ions Score: 51 Expect: 0.011

Matches : 20/196 fragment ions using 34 most intense peaks

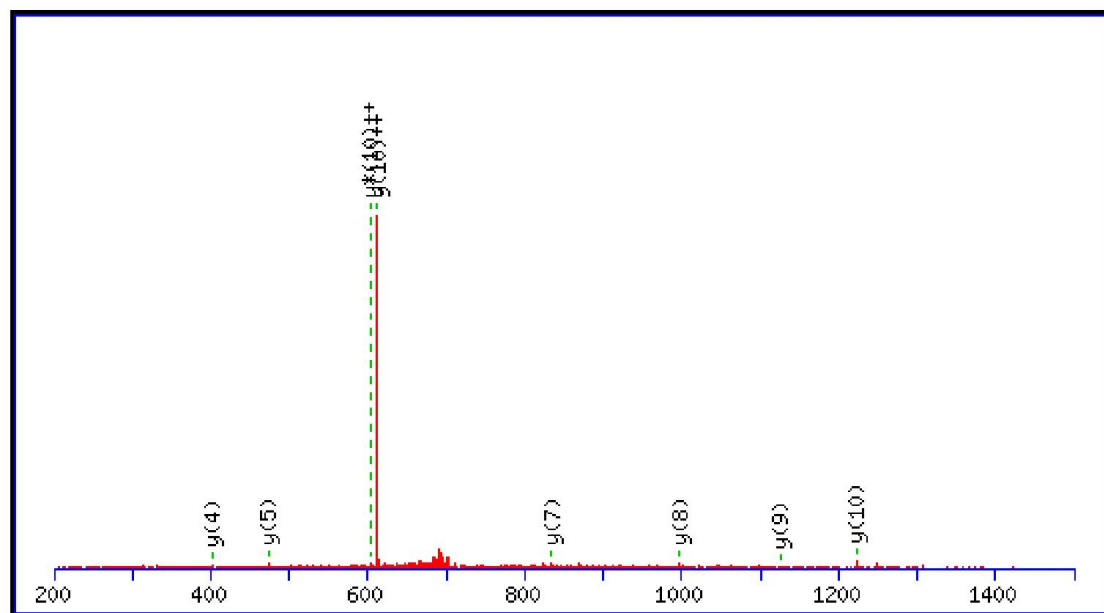
#	b	b ⁺⁺	b ⁺	b ⁺ +	b ⁰	b ⁰ +	Seq.	y	y ⁺⁺	y ⁺	y ⁺ +	y ⁰	y ⁰ +	#
1	98.0600	49.5337					P							20
2	155.0815	78.0444					G	2384.1881	1192.5977	2367.1616	1184.0844	2366.1775	1183.5924	19
3	252.1343	126.5708					P	2327.1666	1164.0870	2310.1401	1155.5737	2309.1561	1155.0817	18
4	399.2027	200.1050					F	2230.1139	1115.5606	2213.0873	1107.0473	2212.1033	1106.5553	17
5	496.2554	248.6314					P	2083.0455	1042.0264	2066.0189	1033.5131	2065.0349	1033.0211	16
6	583.2875	292.1474			565.2769	283.1421	S	1985.9927	993.5000	1968.9661	984.9867	1967.9821	984.4947	15
7	781.4243	391.2158	764.3978	382.7025	763.4137	382.2105	K	1898.9607	949.9840	1881.9341	941.4707	1880.9501	940.9787	14
8	909.4829	455.2451	892.4563	446.7318	891.4723	446.2398	Q	1700.8238	850.9156	1683.7973	842.4023	1682.8133	841.9103	13
9	1037.5415	519.2744	1020.5149	510.7611	1019.5309	510.2691	Q	1573.7653	786.8863	1555.7387	778.3730	1554.7547	777.8810	12
10	1136.6099	568.8086	1119.5833	560.2953	1118.5993	559.8033	V	1444.7067	722.8570	1427.6801	714.3437	1426.6961	713.8517	11
11	1207.6470	604.3271	1190.6204	595.8139	1189.6364	595.3218	A	1345.6383	673.3228	1328.6117	664.8095	1327.6277	664.3175	10
12	1322.6739	661.8406	1305.6474	653.3273	1304.6634	652.8353	D	1274.6012	637.8042	1257.5746	629.2909	1256.5906	628.7989	9
13	1451.7165	726.3619	1434.6900	717.8486	1433.7060	717.3566	E	1159.5742	580.2907	1142.5477	571.7775	1141.5636	571.2855	8
14	1566.7435	783.8754	1549.7169	775.3621	1548.7329	774.8701	D	1030.5316	515.7694	1013.5051	507.2562	1012.5211	506.7642	7
15	1695.7861	848.3967	1678.7595	839.8834	1677.7755	839.3914	E	915.5047	458.2560	898.4781	449.7427	897.4941	449.2507	6
16	1808.8701	904.9387	1791.8436	896.4254	1790.8596	895.9334	I	786.4621	393.7347	769.4355	385.2214			5
17	1994.9494	997.9784	1977.9229	989.4651	1976.9389	988.9731	W	673.3780	337.1926	656.3515	328.6794			4
18	2179.0706	1090.0389	2162.0441	1081.5257	2161.0600	1081.0337	K	487.2987	244.1530	470.2722	235.6397			3
19	2307.1292	1154.0682	2290.1026	1145.5550	2289.1186	1145.0630	Q	303.1775	152.0924	286.1510	143.5791			2
20							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 5896: 1421.765968 from(711.890260, 2+) intensity(48765.4180)

Title: File1278 Spectrum8466 scans: 10100

Data file I:\2013-9-12-Hela-Prometh-Fr12-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1421.7667**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or**Variable modifications:****K6** : Propionyl-Methylation (K)**Ions Score:** 38 **Expect:** 0.13**Matches** : 8/104 fragment ions using 13 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T					12
2	201.1234	101.0653			183.1128	92.0600	V	1321.7263	661.3668	1304.6998	652.8535	11
3	298.1761	149.5917			280.1856	140.5864	P	1222.6579	611.8326	1205.6313	603.3193	10
4	426.2347	213.6210	409.2082	205.1077	408.2241	204.6157	Q	1125.6051	563.3062	1108.5786	554.7929	9
5	589.2980	295.1527	572.2715	286.6394	571.2875	286.1474	Y	997.5465	499.2769	980.5200	490.7636	8
6	787.4349	394.2211	770.4083	385.7078	769.4243	385.2158	K	834.4839	417.7452	817.4567	409.2320	7
7	950.4982	475.7527	933.4716	467.2395	932.4876	466.7475	Y	636.3464	318.6768	619.3198	310.1636	6
8	1021.5353	511.2713	1004.5088	502.7580	1003.5247	502.2660	A	473.2831	237.1452	456.2565	228.6319	5
9	1092.5724	546.7899	1075.5459	538.2766	1074.5619	537.7846	A	402.2459	201.6266	385.2194	193.1133	4
10	1149.5939	575.3006	1132.5673	566.7873	1131.5833	566.2953	G	331.2088	166.1081	314.1823	157.5948	3
11	1248.6623	624.8348	1231.6358	616.3215	1230.6517	615.8295	V	274.1874	137.5973	257.1608	129.0840	2
12							R	175.1190	88.0631	158.0924	79.5498	1

MS/MS Fragmentation of **KAAKAGGTPR**

Found in **P16403**, Histone H1.2 OS=Homo sapiens GN=HIST1H1C PE=1 SV=2

Match to Query 4254: 1266.748028 from(634.381290,2+) intensity(13867.1797)

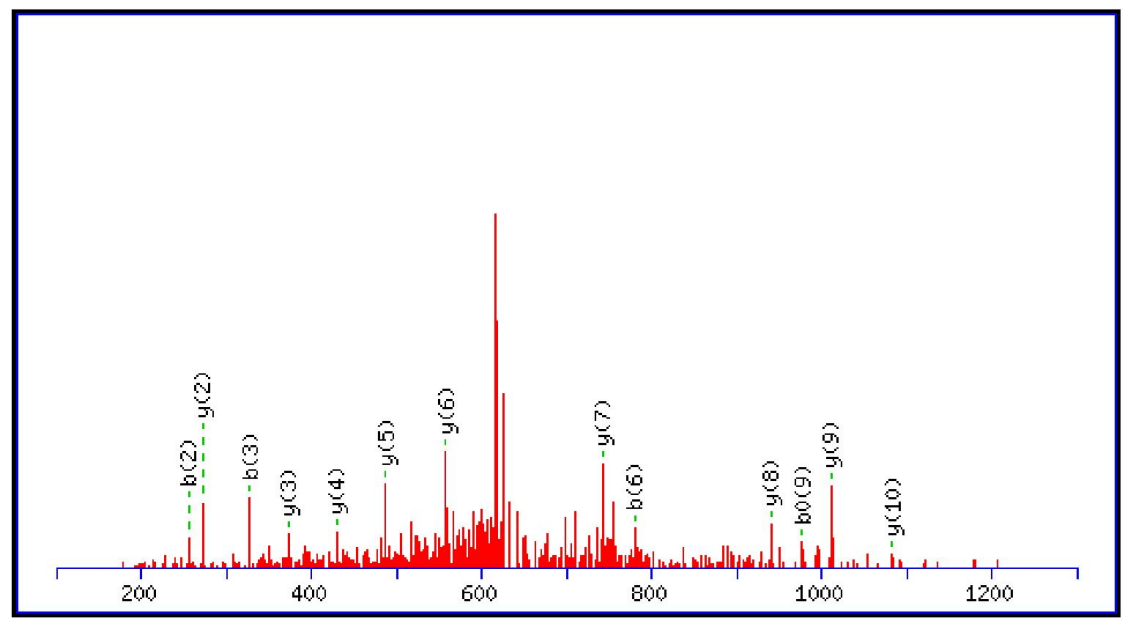
Title: File1278 Spectrum3549 scans: 4947

Data file I:\2013-9-12-Hela-Prometh-Fr12-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1265.7455

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

Variable modifications:

- K1** : Propionyl (K)
- K4** : Propionyl-Methylation (K)
- K5** : Propionyl (K)

Ions Score: 65 **Expect:** 0.00014

Matches : 13/100 fragment ions using 22 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							11
2	256.1656	128.5864	239.1390	120.0731			A	1082.6317	541.8195	1065.6051	533.3062	1064.6211	532.8142	10
3	327.2027	164.1050	310.1761	155.5917			A	1011.5946	506.3009	994.5680	497.7376	993.5840	497.2956	9
4	525.3395	263.1734	508.3130	254.6601			K	940.5574	470.7824	923.5309	462.2691	922.5469	461.7771	8
5	709.4607	355.2340	692.4341	346.7207			K	742.4206	371.7139	725.3941	363.2007	724.4101	362.7087	7
6	780.4978	390.7525	768.4713	382.2393			A	558.2994	279.6534	541.2729	271.1401	540.2889	270.6481	6
7	837.5193	419.2633	820.4927	410.7500			G	487.2623	244.1343	470.2358	235.6215	469.2518	235.1295	5
8	894.5407	447.7740	877.5142	439.2607			G	430.2409	215.6241	413.2143	207.1108	412.2303	206.6188	4
9	995.5884	498.2973	978.5619	489.7846	977.5778	489.2926	T	373.2194	187.1133	356.1923	178.6001	355.2088	178.1081	3
10	1092.6412	546.8242	1075.6146	538.3110	1074.6306	537.8189	P	272.1717	136.5895	255.1452	128.0762			2
11							R	175.1190	88.0631	158.0924	79.5493			1

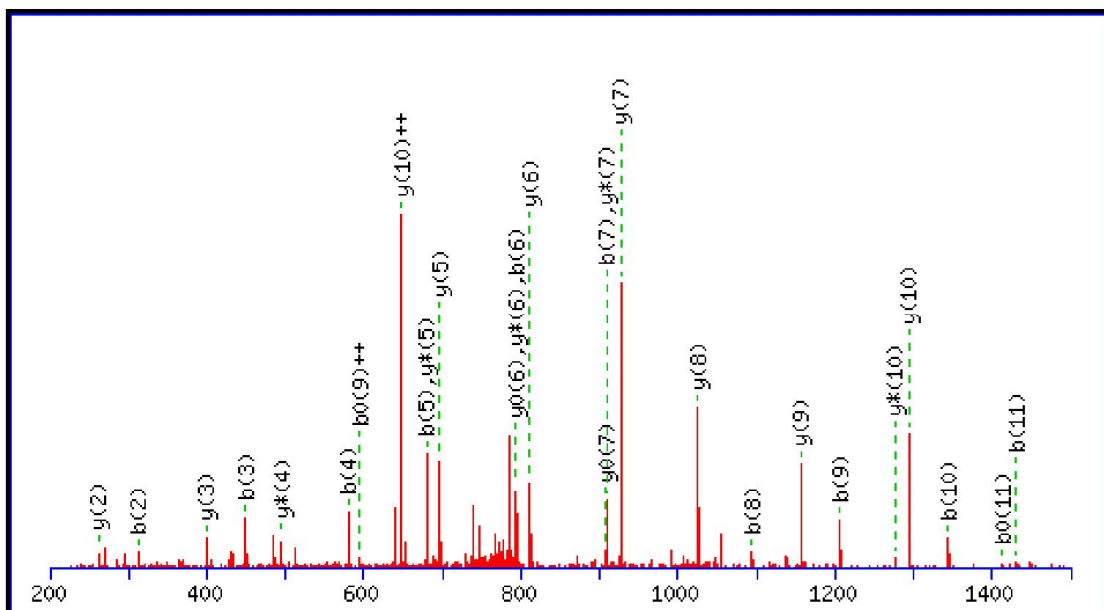
Found in **C9J4M6**, DNA-directed RNA polymerase OS=Homo sapiens GN=POLR2B PE=2 SV=2

Match to Query 7898: 1603.850568 from(802.932560, 2+) intensity(153082.6250)

Title: File1278 Spectrum6031 scans: 7564

Data file I:\2013-9-12-Hela-Prometh-Fr12-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc): 1603.8504**

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

Variable modifications:

K2 : Propionyl-Methylation (K)**K8** : Propionyl (K)

Ions Score: 69 Expect: 0.00012

Matches : 28/118 fragment ions using 39 most intense peaks

#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							12
2	312.3282	156.6177	295.2016	148.1044			K	1491.7737	746.3905	1474.7471	737.8772	1473.7631	737.3852	11
3	449.2871	225.1472	432.2605	216.6339			H	1293.6368	647.3221	1276.6103	638.8088	1275.6263	638.3168	10
4	588.3276	290.6674	563.3010	282.1541			H	1156.5779	578.7926	1139.5514	570.2798	1138.5674	569.7873	9
5	679.3960	340.2016	662.3694	331.6884			V	1025.5374	513.2724	1008.5109	504.7591	1007.5269	504.2671	8
6	794.4229	397.7151	777.3964	389.2018	776.4124	388.7098	D	926.4690	463.7381	909.4425	455.2249	908.4585	454.7329	7
7	909.4499	455.2286	892.4233	446.7153	891.4393	446.2233	D	811.4421	406.2247	794.4155	397.7114	793.4315	397.2194	6
8	1093.5710	547.2892	1076.5445	538.7759	1075.5605	538.2839	K	696.4151	348.7112	679.3886	340.1979	678.4046	339.7059	5
9	1206.6551	603.8312	1189.6286	595.3179	1188.6445	594.8259	H	512.2940	256.6506	495.2674	248.1373	494.2834	247.6453	4
10	1343.7140	672.3606	1326.6876	663.8474	1325.7035	663.3554	H	399.2099	200.1086	382.1833	191.5953	381.1993	191.1033	3
11	1430.7460	715.8767	1413.7195	707.3634	1412.7355	706.8714	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
12							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **YANRVKKLNVDR**

Found in **Q8N4N8**, Kinesin-like protein KIF2B OS=Homo sapiens GN=KIF2B PE=1 SV=3

Match to Query 10508: 1643.945616 from(411.993680, 4+) intensity(184554.3906)

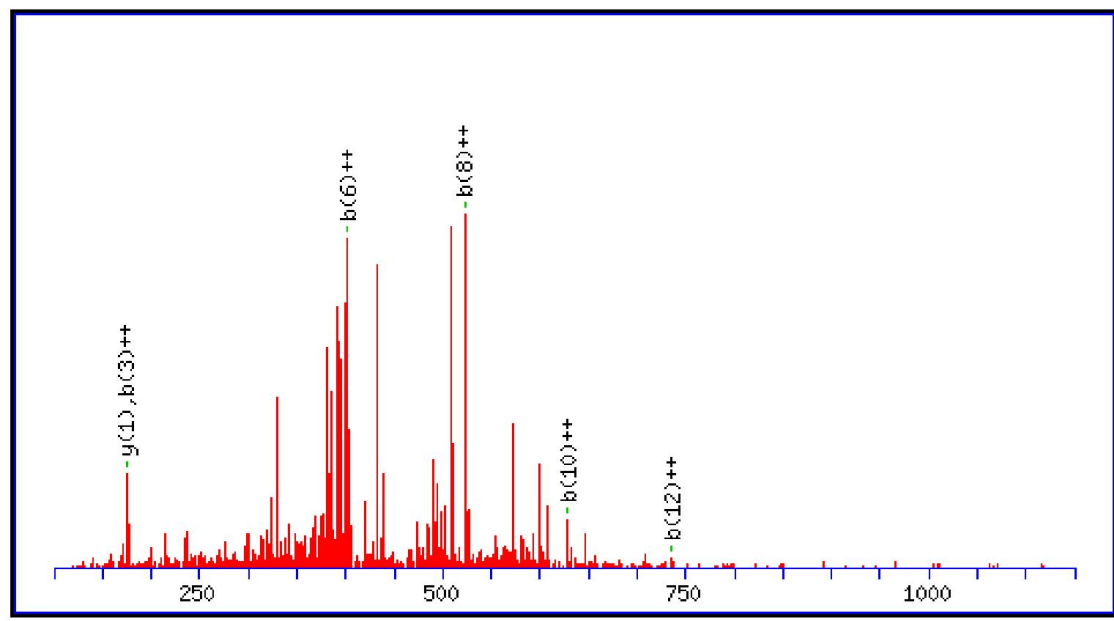
Title: File1322 Spectrum4320 scans: 4810

Data file I:\2013-9-13-Hela-Prometh-Fr1-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1643.9471

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

Variable modifications:

K6 : Propionyl-Methylation (K)

Ions Score: 23 **Expect: 3.8**

Matches : 6/116 fragment ions using 10 most intense peaks [\(help\)](#)

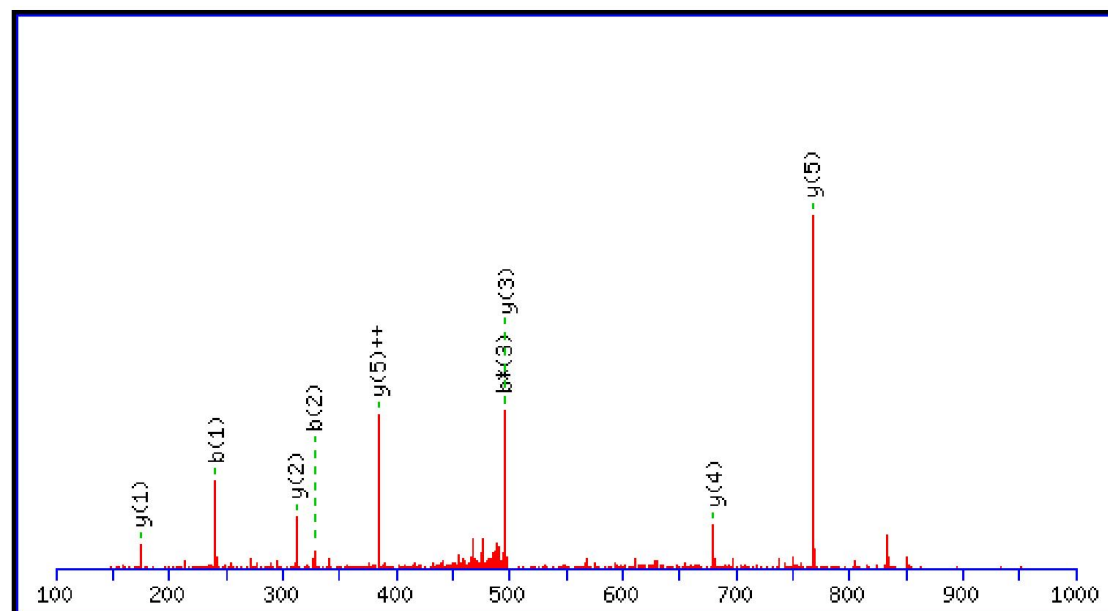
#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	164.0706	82.5389					Y							13
2	235.1077	118.0575					A	1481.8911	741.4492	1464.8645	732.9359	1463.8805	732.4439	12
3	349.1506	175.0790	332.1241	166.5657			N	1410.8540	705.9306	1393.8274	697.4173	1392.8434	696.9253	11
4	505.2518	253.1295	488.2252	244.6162			R	1296.8110	648.9092	1279.7845	640.3959	1278.8005	639.9039	10
5	604.3202	302.6637	587.2925	294.1504			V	1140.7099	570.8586	1123.6834	562.3453	1122.6994	561.8533	9
6	802.4570	401.7321	785.4305	393.2189			K	1041.6415	521.3244	1024.6150	512.8111	1023.6309	512.3191	8
7	930.5520	465.7796	913.5254	457.2663			K	843.5047	422.2560	826.4781	413.7427	825.4941	413.2507	7
8	1043.6360	522.3217	1026.6095	513.8084			L	715.4097	358.2085	698.3832	349.6952	697.3991	349.2032	6
9	1157.6790	579.3431	1140.6524	570.8298			N	602.3257	301.6665	585.2991	293.1532	584.3151	292.6612	5
10	1256.7474	628.8773	1239.7208	620.3640			V	488.2827	244.6450	471.2562	236.1317	470.2722	235.6397	4
11	1371.7743	686.3908	1354.7478	677.8775	1353.7637	677.3855	D	389.2143	195.1108	372.1878	186.5975	371.2037	186.1055	3
12	1470.8427	735.9250	1453.8162	727.4117	1452.8322	726.9197	V	274.1874	137.5973	257.1608	129.0840			2
13							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 2212: 1006.591048 from(504.302800, 2+) intensity(1489475.8750)

Title: File1322 Spectrum6191 scans: 6759

Data file I:\2013-9-13-Hela-Prometh-Fr1-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1006.5923**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****N-term** : Acetyl (Protein N-term)**K1** : Propionyl-Methylation (K)**K3** : Propionyl (K)**K4** : Propionyl (K)**Ions Score:** 28 **Expect:** 0.76**Matches** : 9/50 fragment ions using 17 most inten

#	b	b ⁺⁺	b*	b* ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y* ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	241.1547	121.0810	224.1281	112.5677			K							6
2	328.1867	164.5970	311.1601	156.0837	310.1761	155.5917	S	767.4522	384.2298	750.4257	375.7165	749.4417	375.2245	5
3	512.3079	256.6576	495.2813	248.1443	494.2973	247.6523	K	680.4202	340.7137	663.3937	332.2005			4
4	696.4291	348.7182	679.4025	340.2049	678.4185	339.7129	K	496.2990	248.6532	479.2725	240.1399			3
5	833.4880	417.2476	816.4614	408.7343	815.4774	408.2423	H	312.1779	156.5926	295.1513	148.0793			2
6							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **GKYDKR**

Found in **B3VOL1**, ADF-ribosylation factor-like protein 6-interacting protein 4 OS=Homo sapiens GN=ARL6IP4 PE=2 SV=1

258

Match to Query 3089: 1075.602508 from(538.808530, 2+) intensity(157577.1250)

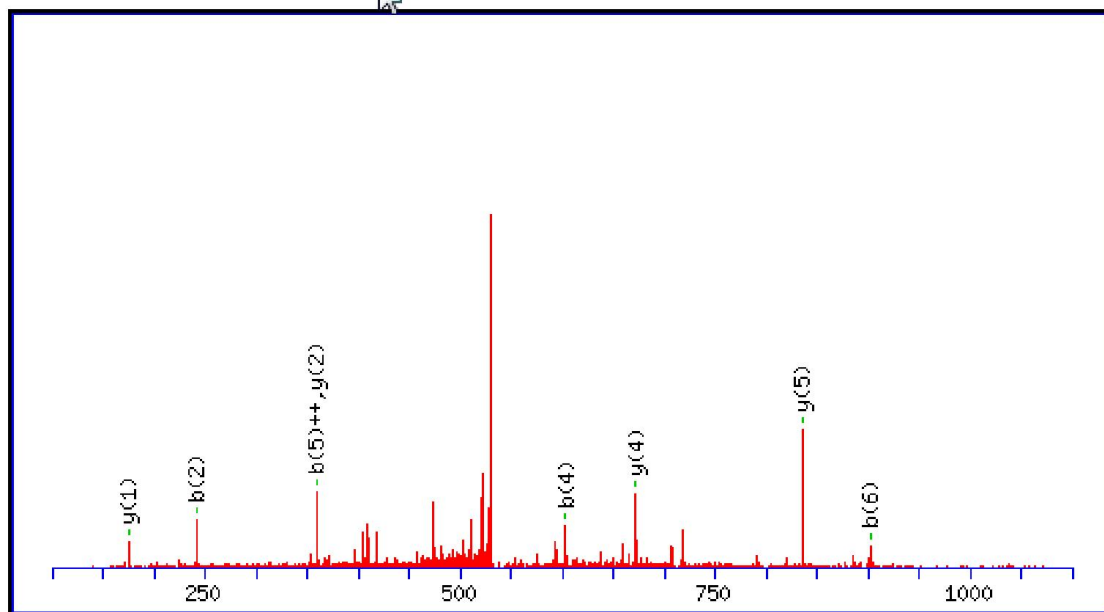
Title: File1322 Spectrum7803 scans: 8438

Data file I:\2013-9-13-Hela-Prometh-Frl-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1075.6026

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

Variable modifications:

K2 : Propionyl (K)

K4 : Propionyl-Methylation (K)

K6 : Propionyl (K)

Ions Score: 31 **Expect:** 0.38

Matches : 8/58 fragment ions using 10 most int

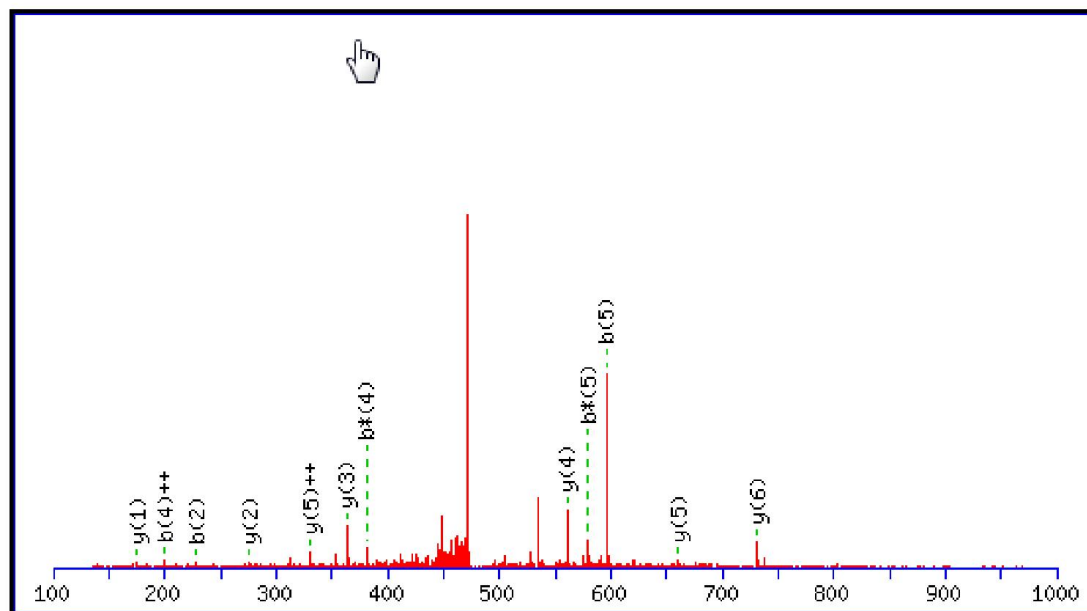
#	b	b ⁺⁺	b ⁺	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							7
2	242.1499	141.5786	225.1234	113.0653			K	1019.5884	510.2978	1002.5619	501.7846	1001.5778	501.2926	6
3	405.2132	203.1103	388.1867	194.5970			Y	835.4672	418.2373	818.4407	409.7240	817.4567	409.2320	5
4	603.3501	302.1787	586.3235	293.6654			K	672.4039	336.7056	655.3774	328.1923	654.3933	327.7003	4
5	718.3770	359.6921	701.3505	351.1789	700.3665	350.6869	D	474.2671	237.6372	457.2405	229.1239	456.2565	228.6319	3
6	902.4982	451.7527	885.4716	443.2395	884.4876	442.7475	K	359.2401	180.1237	342.2136	171.6104			2
7							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 1634: 957.560948 from(479.787750,2+) intensity(182960.3281)

Title: File1322 Spectrum5025 scans: 5544

Data file I:\2013-9-13-Hela-Prometh-Fr1-ZW.mgf

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

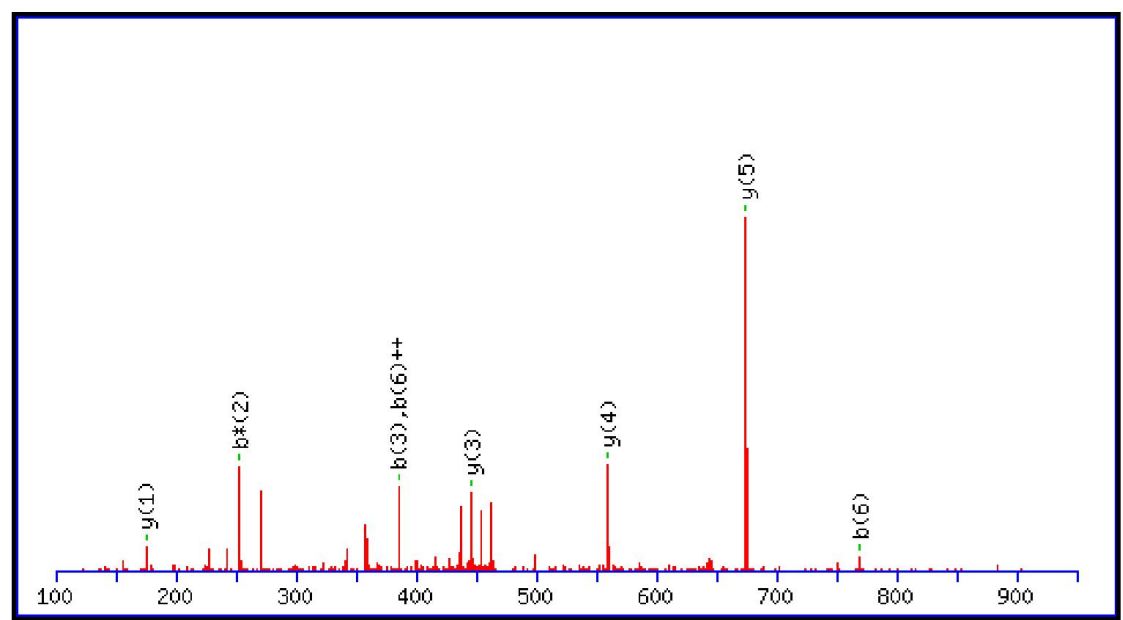
Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 957.5607**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K5** : Propionyl-Methylation (K)**Ions Score:** 32 **Expect:** 0.38**Matches** : 12/72 fragment ions using 27 most intense peaks

#	b	b ⁺⁺	b ⁺	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	129.0659	65.0366	112.0393	56.5233			Q							8
2	228.1343	114.5708	211.1077	106.0575			V	830.5094	415.7584	813.4829	407.2451	812.4989	406.7531	7
3	299.1714	150.0893	282.1448	141.5761			A	731.4410	366.2241	714.4145	357.7109	713.4305	357.2189	6
4	398.2398	199.6235	381.2132	191.1103			V	660.4039	330.7058	643.3774	322.1923	642.3933	321.7003	5
5	596.3766	298.6920	579.3501	290.1787			K	561.3355	281.1714	544.3089	272.6581	543.3249	272.1661	4
6	683.4087	342.2080	666.3921	333.6947	665.3981	333.2027	S	363.1987	182.1030	346.1721	173.5897	345.1881	173.0977	3
7	784.4563	392.7318	767.4298	384.2185	766.4458	383.7265	T	276.1666	138.5870	259.1401	130.0737	258.1561	129.5817	2
8							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **AKDLSKR**
Found in **P48634**, Protein PRRC2A OS=Homo sapiens GN=PRRC2A PE=1 SV=3

Match to Query 1498: 942.549408 from(472.281980, 2+) intensity(922889.5625)
Title: File1322 Spectrum7582 scans: 8208
Data file I:\2013-9-13-Hela-Prometh-Fr1-ZW.mgf

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



Monoisotopic mass of neutral peptide Mr(calc): 942.5498
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)
Variable modifications:
K2 : Propionyl-Methylation (K)
K6 : Propionyl (K)
Ions Score: 34 **Expect:** 0.24
Matches : 8/62 fragment ions using 8 most intense peak

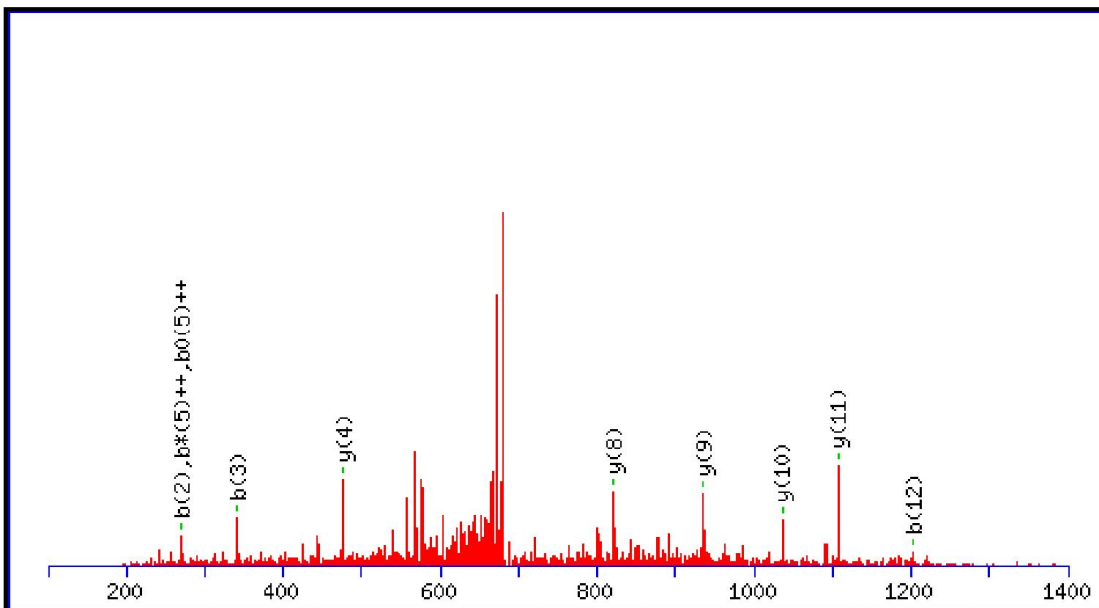
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							7
2	270.1812	135.5942	253.1547	127.0810			K	872.5200	436.7636	855.4934	428.2504	854.5094	427.7584	6
3	385.2082	193.1077	368.1816	184.5944	367.1976	184.1024	D	674.3832	337.6952	657.3566	329.1819	656.3726	328.6899	5
4	498.2922	249.6498	481.2657	241.8655	480.2817	240.6445	L	559.3562	280.1817	542.3297	271.6685	541.3457	271.1765	4
5	585.3243	293.1658	568.2977	284.6525	567.3137	284.1605	S	446.2722	223.6397	429.2456	215.1264	428.2616	214.6344	3
6	769.4454	385.2264	752.4189	376.7131	751.4349	376.2211	K	359.2401	180.1237	342.2136	171.6104			2
7							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 6436: 1375.672208 from(688.843380,2+) intensity(93149.6563)

Title: File1322 Spectrum9232 scans: 9926

Data file I:\2013-9-13-Hela-Prometh-Fri1-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc)**: 1375.6732

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

Variable modifications:

K1 : Propionyl-Methylation (K)

Ions Score: 33 Expect: 0.22

Matches : 10/130 fragment ions using 12 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	199.1441	100.0757	182.1176	91.5624			K							13
2	270.1812	135.5942	253.1547	127.0810			A	1178.5436	589.7755	1161.5171	581.2622	1160.5331	580.7702	12
3	341.2183	171.1128	324.1918	162.5995			A	1107.5055	554.2569	1090.4800	545.7436	1089.4960	545.2516	11
4	442.2660	221.6366	425.2395	213.1234	424.2554	212.6314	T	1036.4694	518.7383	1019.4429	510.2251	1018.4589	509.7331	10
5	557.2930	279.1501	540.2664	270.6368	539.2824	270.1448	D	935.4217	468.2145	918.3952	459.7012	917.4112	459.2092	9
6	614.3144	307.6608	597.2879	299.1476	596.3039	298.6556	G	820.3948	410.7010	803.3682	402.1878	802.3842	401.6958	8
7	685.3515	343.1794	668.3250	334.6661	667.3410	334.1741	A	763.3733	382.1903	746.3468	373.6770	745.3628	373.1850	7
8	800.3785	400.6929	783.3519	392.1796	782.3679	391.6876	D	692.3362	346.6717	675.3097	338.1585	674.3257	337.6665	6
9	901.4262	451.2167	884.3996	442.7034	883.4156	442.2114	T	577.3093	289.1583	560.2827	280.6450	559.2987	280.1530	5
10	998.4789	499.7431	981.4524	491.2298	980.4684	490.7378	P	476.2616	238.6344	459.2350	230.1212			4
11	1145.5473	573.2773	1128.5208	564.7640	1127.5368	564.2720	F	379.2088	190.1081	362.1823	181.5948			3
12	1202.5688	601.7880	1185.5422	593.2748	1184.5582	592.7828	G	232.1404	116.5738	215.1139	108.0606			2
13							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **VEEAPVKKAKR**

Found in **HOY9Y2**, Biorientation of chromosomes in cell division protein 1-like 1 (Fragment) OS=Homo sapiens GN=BOD1L1 PE=4 SW=1

262

Match to Query 7444: 1435.838588 from(718.926570, 2+) intensity(478861.4688)

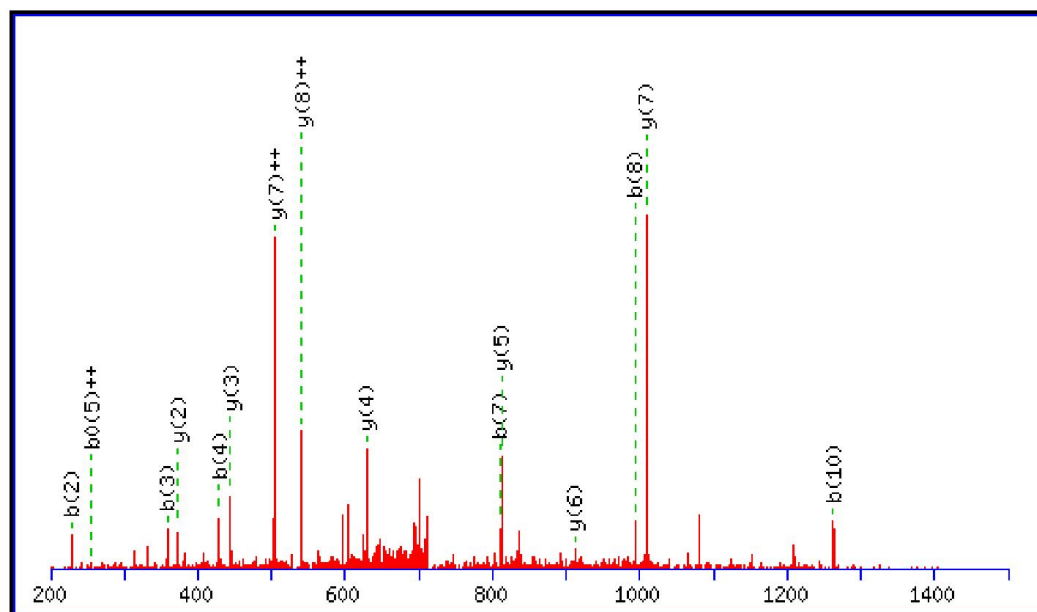
Title: File1322 Spectrum10007 scans: 10734

Data file I:\2013-9-13-Hela-Prometh-Fr1-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1435.8398

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

Variable modifications:

K7 : Propionyl (K)

K8 : Propionyl (K)

K10 : Propionyl-Methylation (K)

Ions Score: 51 **Expect:** 0.004

Matches : 15/90 fragment ions using 25 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ^{***}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							11
2	229.1183	115.0628			211.1077	106.0575	E	1837.7787	669.3930	1320.7522	660.8797	1319.7682	660.3877	10
3	358.1609	179.5841			340.1503	170.5788	E	1208.7361	604.8717	1191.7096	596.3584	1190.7256	595.8664	9
4	429.1980	215.1026			411.1874	206.0974	A	1079.6935	540.3504	1062.6670	531.8371			8
5	526.2508	263.6290			508.2402	254.6237	P	1008.6564	504.8319	991.6299	496.3186			7
6	625.3192	313.1632			607.3086	304.1579	V	911.6037	456.3055	894.5771	447.7922			6
7	809.4403	405.2238	792.4138	396.7105	791.4298	396.2185	K	812.5353	406.7713	795.5087	398.2580			5
8	993.5615	497.2844	976.6350	488.7711	975.5510	488.2791	K	628.4141	314.7107	611.3875	306.1974			4
9	1064.5996	532.8030	1047.5721	524.2897	1046.5881	523.7977	A	444.2929	222.6501	427.2663	214.1368			3
10	1262.7355	631.8714	1245.7089	623.3581	1244.7249	622.8661	K	373.2558	187.1315	356.2292	178.6183			2
11							R	175.1190	88.0631	158.0924	79.5498			1

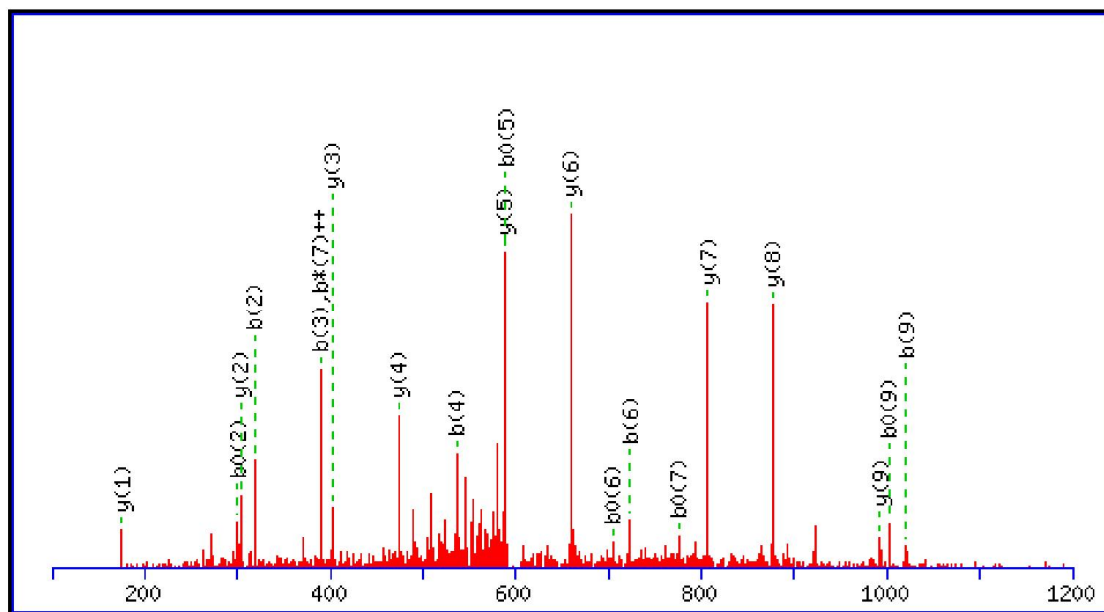
Found in **MORO15**, Far upstream element-binding protein 2 (Fragment) OS=Homo sapiens GN=KHSRP PE=4 SV=1

Match to Query 4389: 1193.631068 from(597.822810, 2+) intensity(275242.0313)

Title: File1322 Spectrum10083 scans: 10813

Data file I:\2013-9-13-Hela-Prometh-Fr1-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1193.6313**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 70 **Expect:** 6.7e-005**Matches** : 20/98 fragment ions using 31 most intense peaks (

#	b	b ⁺⁺	b ⁺	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							10
2	318.1932	159.6003	301.1667	151.0870	300.1827	150.5950	D	992.4796	496.7434	975.4530	488.2302	974.4690	487.7381	9
3	389.2303	195.1188	372.2038	186.6055	371.2198	186.1135	A	877.4526	439.2300	860.4261	430.7167	859.4421	430.2247	8
4	536.2988	268.6530	519.2722	260.1397	518.2882	259.6477	F	806.4155	403.7114	789.3890	395.1981	788.4050	394.7061	7
5	607.3359	304.1716	590.3093	295.6583	589.3253	295.1663	A	659.3471	330.1772	642.3206	321.6639	641.3365	321.1719	6
6	722.3628	361.6850	705.3563	353.1718	704.3523	352.6798	D	588.3100	294.6586	571.2835	286.1454	570.2994	285.6534	5
7	793.3999	397.2036	776.3734	388.6903	775.3894	388.1983	A	473.2831	237.1452	456.2565	228.6319			4
8	892.4683	446.7378	875.4418	438.2245	874.4578	437.7325	V	402.2459	201.6266	385.2194	193.1133			3
9	1020.5269	510.7671	1003.5004	502.2538	1002.5164	501.7618	Q	303.1775	152.0924	286.1510	143.5791			2
10							R	175.1190	88.0631	158.0924	79.5498			1

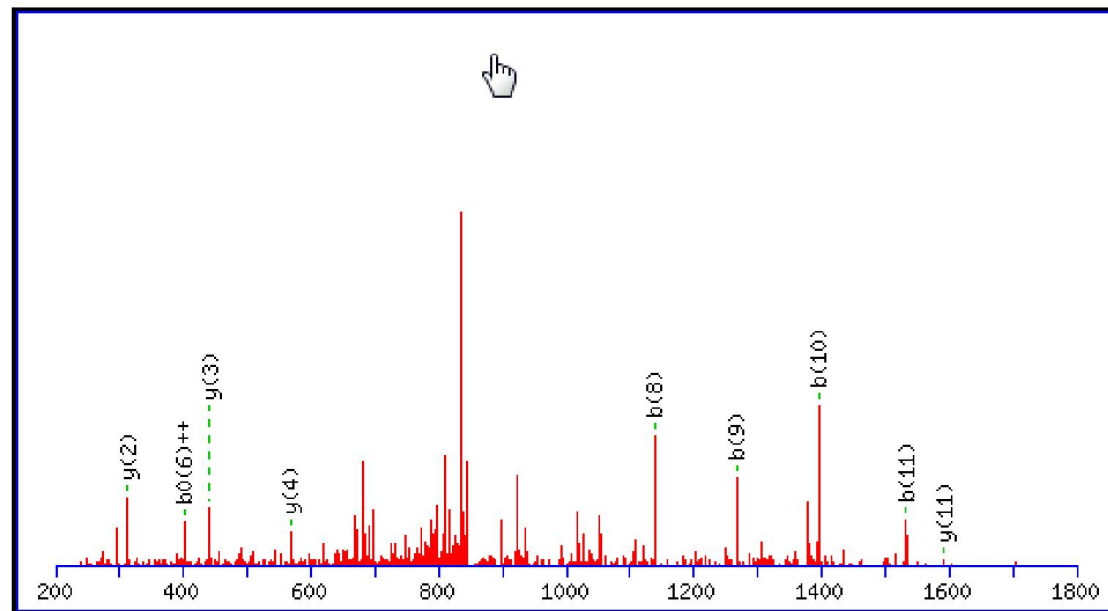
Found in **J3KQL8**, Apolipoprotein L2 OS=Homo sapiens GN=APOL2 PE=4 SV=1

Match to Query 10319: 1705.851288 from(853.932920, 2+) intensity(74072.5781)

Title: File1332 Spectrum6206 scans: 7251

Data file I:\2013-9-14-Hela-Prometh-Fr10-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1705.8517**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl (K)**K7** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 26 **Expect:** 1.9**Matches** : 9/122 fragment ions using 15 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	116.0342	58.5207			98.0237	49.5155	D							12
2	300.1554	150.5813	283.1288	142.0681	282.1448	141.5761	K	1591.8320	796.4197	1574.8055	787.9064	1573.8215	787.4144	11
3	414.1983	207.6028	397.1718	199.0895	396.1878	198.5975	N	1407.7109	704.3591	1390.6843	695.8458	1389.7003	695.3538	10
4	570.2994	285.6534	553.2729	277.1401	552.2893	276.6481	R	1293.6679	647.3376	1276.6414	638.8243	1275.6574	638.3323	9
5	707.3583	354.1828	690.3318	345.6695	689.3478	345.1775	H	1137.5668	569.2871	1120.5403	560.7738	1119.5563	560.2818	8
6	822.3853	411.6963	805.3587	403.1830	804.3747	402.6910	D	1000.5079	500.7576	983.4814	492.2443	982.4974	491.7523	7
7	1024.5443	512.7758	1007.5178	504.2625	1006.5337	503.7705	K	885.4810	443.2441	868.4544	434.7309	867.4704	434.2388	6
8	1139.5712	570.2893	1122.5447	561.7760	1121.5607	561.2840	D	683.3220	342.1646	666.2954	333.6513	665.3114	333.1593	5
9	1267.6298	634.3186	1250.6033	625.8053	1249.6193	625.3133	Q	568.2950	284.6511	551.2635	276.1379			4
10	1395.6884	698.3478	1378.6619	689.8346	1377.6778	689.3426	Q	440.2364	220.6219	423.2099	212.1086			3
11	1532.7473	766.8773	1515.7208	758.3640	1514.7367	757.8720	H	312.1779	156.5926	295.1513	148.0793			2
12							R	175.1190	88.0631	168.0924	79.5498			1

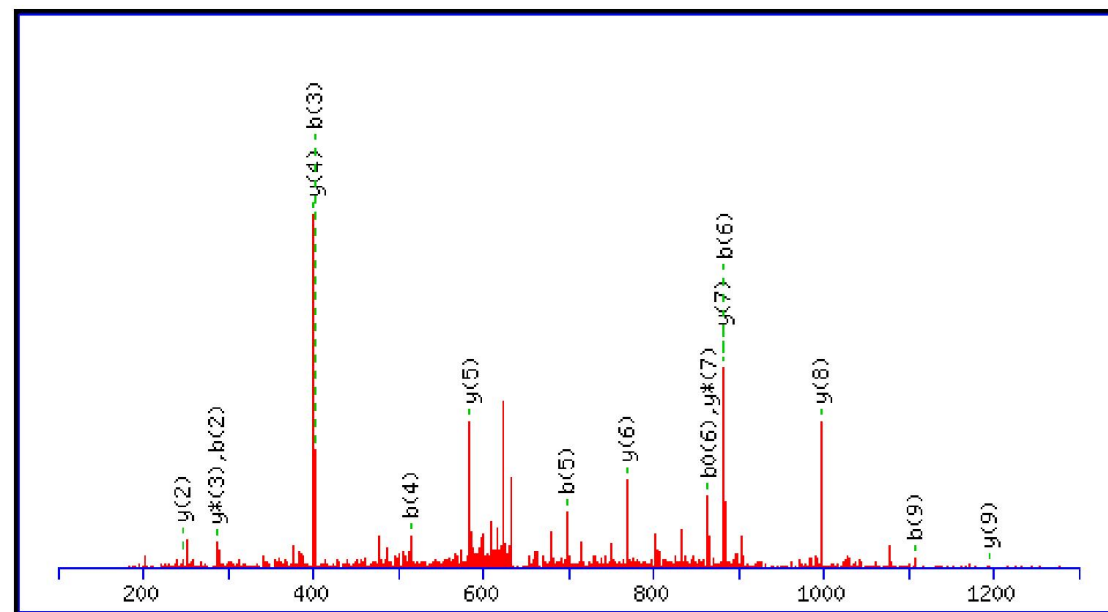
MS/MS Fragmentation of **SKDLKPGAR**Found in **B4DI41**, Methyl-CpG-binding domain protein 1 OS=Homo sapiens GN=MBD1 PE=2 SV=1

Match to Query 3722: 1280.744848 from(641.379700, 2+) intensity(181230.8594)

Title: File1332 Spectrum9031 scans: 10194

Data file I:\2013-9-14-Hela-Prometh-Fr10-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1280.7452**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-Methylation (K)**K5** : Propionyl (K)**K6** : Propionyl (K)**Ions Score:** 38 **Expect:** 0.079**Matches** : 16/92 fragment ions using 33 most intense

#	b	b ⁺⁺	b*	b* ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y* ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							10
2	286.1761	143.5917	269.1496	135.0784	268.1656	134.5864	K	1194.7205	597.8639	1177.6939	589.3506	1176.7099	588.8586	9
3	401.2031	201.1052	384.1765	192.5919	383.1925	192.0999	D	996.5837	498.7955	979.5571	490.2822	978.5731	489.7902	8
4	514.2871	257.6472	497.2606	248.1339	496.2766	248.6419	L	881.5567	441.2820	864.5302	432.7687			7
5	698.4083	349.7078	681.3818	341.1945	680.3978	340.7025	K	768.4726	384.7400	751.4461	376.2267			6
6	882.5295	441.7684	865.5029	433.2551	864.5189	432.7631	K	584.3515	292.6794	567.3249	284.1661			5
7	979.5823	490.2948	962.5557	481.7815	961.5717	481.2895	P	400.2303	200.6188	383.2037	192.1055			4
8	1036.6037	518.8055	1019.5772	510.2922	1018.5932	509.8002	G	303.1775	152.0924	286.1510	143.5791			3
9	1107.6408	554.3241	1090.6143	545.8108	1089.6303	545.3188	A	246.1561	123.5817	229.1295	115.0684			2
10							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 13687: 1884.034768 from(943.024660,2+) intensity(38959.1758)

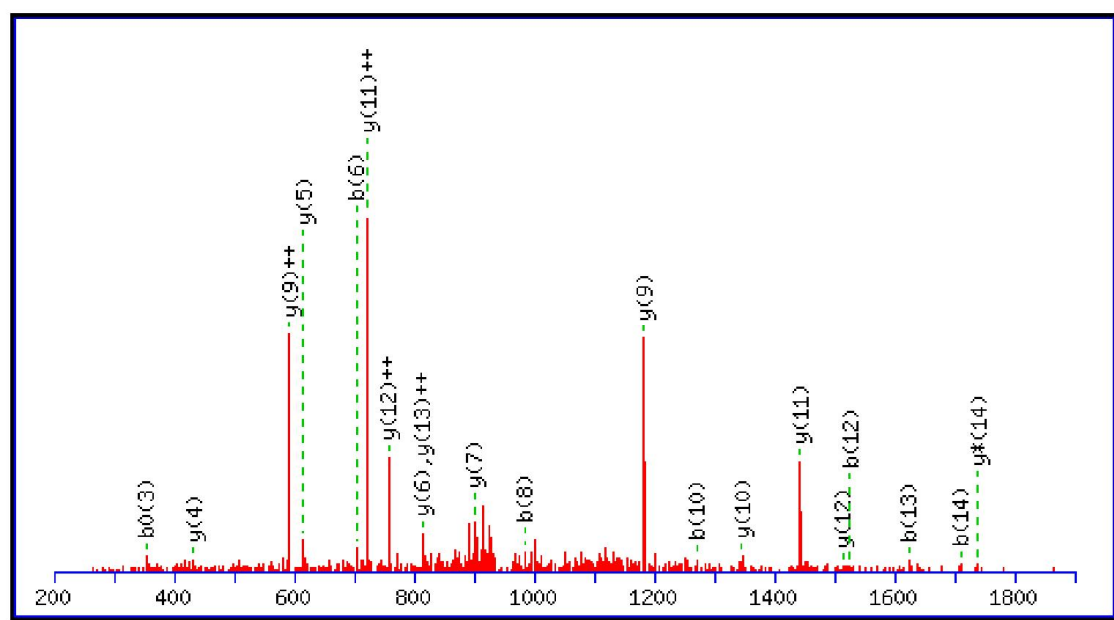
Title: File1332 Spectrum11611 scans: 12881

Data file I:\2013-9-14-Hela-Prometh-Fr10-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1884.0356

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

Variable modifications:

- K8** : Propionyl (K)
- K10** : Propionyl-Methylation (K)
- K11** : Propionyl (K)

Ions Score: 33 Expect: 0.59

Matches : 20/152 fragment ions using 47 most intense peaks [\(help\)](#)

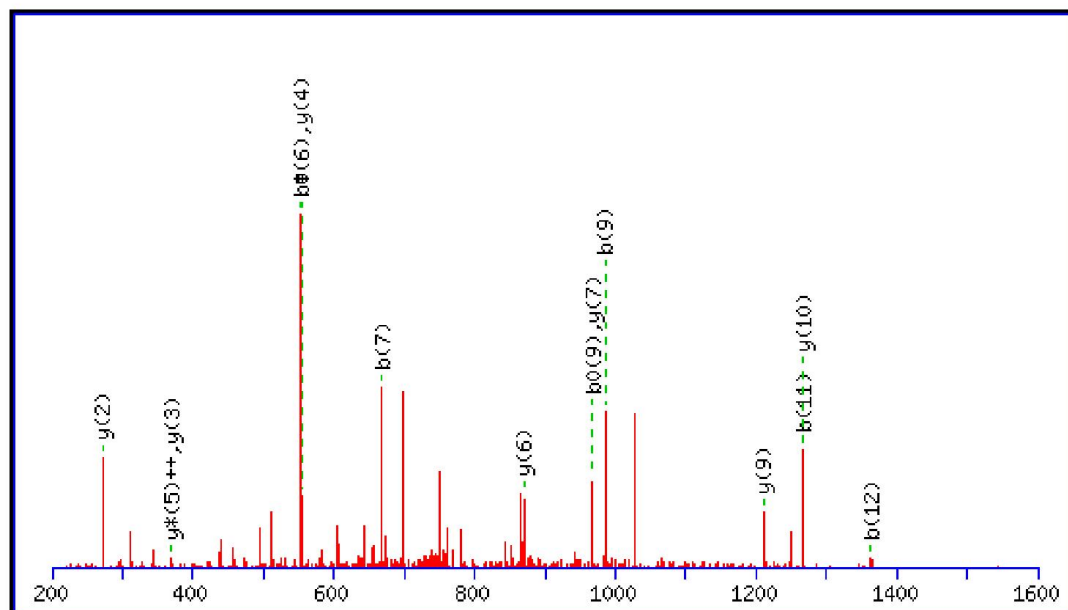
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	E							15
2	259.0925	130.0499			241.0819	121.0446	E	1756.0003	873.5038	1738.9738	869.9905	1737.9898	869.4985	14
3	372.1765	186.5919			354.1660	177.5866	L	1626.9578	813.9825	1609.9312	805.4692	1608.9472	804.9772	13
4	443.2136	222.1105			425.2031	213.1052	A	1513.8737	757.4405	1496.8471	748.3272	1495.8631	748.4352	12
5	540.2664	270.6368			522.2558	261.6316	P	1442.8366	721.9219	1425.8100	713.4037	1424.8260	712.9166	11
6	703.3297	352.1685			685.3192	343.1632	Y	1345.7838	673.3955	1328.7573	664.8823	1327.7732	664.3903	10
7	800.3825	400.6949			782.3719	391.6896	P	1182.7205	591.8639	1165.6939	583.3506	1164.7099	582.8586	9
8	984.5037	492.7555	967.4771	484.2422	966.4931	483.7502	K	1085.6677	543.3375	1068.6412	534.8242	1067.6572	534.3322	8
9	1071.5357	536.2715	1054.5092	527.7582	1053.5251	527.2662	S	901.5465	451.2769	884.5200	442.7636	883.5360	442.2716	7
10	1269.6725	635.3399	1252.6460	626.8266	1251.6620	626.3346	K	814.5145	407.7609	797.4880	399.2476	796.5039	398.7556	6
11	1453.7937	727.4005	1436.7672	718.8872	1435.7831	718.3952	K	616.3777	308.6925	599.3511	300.1792	598.3671	299.6872	5
12	1524.8308	762.9190	1507.8043	754.4058	1506.8203	753.9138	A	432.2565	216.6319	415.2300	208.1186	414.2459	207.6266	4
13	1623.8992	812.4533	1606.8727	803.9400	1605.8887	803.4480	V	361.2194	181.1133	344.1928	172.6001	343.2088	172.1081	3
14	1710.9313	855.9693	1693.9047	847.4560	1692.9207	846.9640	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
15							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 7435: 1536.834928 from(769.424740, 2+) intensity(398615.8125)

Title: File1332 Spectrum10273 scans: 11488

Data file I:\2013-9-14-Hela-Prometh-Fr10-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1536.8281**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues on terminal only)**Variable modifications:****K9** : Propionyl-(13CD3)Methyl (K)**K10** : Propionyl (K)**Ions Score:** 42 **Expect:** 0.054**Matches :** 15/124 fragment ions using 24 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							13
2	214.1299	107.5686	197.1033	99.0533			R	1480.8139	740.9106	1463.7874	732.3973	1462.8034	731.9053	12
3	271.1513	136.0793	254.1248	127.5660			G	1324.7128	662.3601	1307.6863	654.3468	1306.7023	653.8548	11
4	328.1728	164.5900	311.1462	156.0768			G	1267.6914	634.3493	1250.6648	625.8360	1249.6808	625.3440	10
5	443.1997	222.1035	426.1732	213.5902	425.1892	213.0982	D	1210.6699	605.8386	1193.6434	597.3253	1192.6593	596.8333	9
6	571.2583	286.1328	554.2318	277.6195	553.2477	277.1275	P	1095.6430	548.3251	1078.6164	539.8118	1077.6324	539.3198	8
7	668.3111	334.6592	651.2845	326.1459	650.3005	325.6539	Q	967.5844	484.2958	950.5578	475.7826	949.5738	475.2905	7
8	783.3380	392.1726	766.3115	383.6594	765.3274	383.1674	D	870.5316	435.7694	853.5051	427.2562	852.5210	426.7642	6
9	985.4970	493.2521	968.4705	484.7389	967.4865	484.2469	K	755.5047	378.2560	738.4781	369.7427			5
10	1169.6182	585.3127	1152.5916	576.7995	1151.6076	576.3075	K	553.3457	277.1765	536.3191	268.6632			4
11	1266.6710	633.8391	1249.6444	625.3258	1248.6604	624.8338	P	369.2245	185.1159	352.1979	176.6026			3
12	1363.7237	682.3655	1346.6972	673.8522	1345.7132	673.3602	P	272.1717	136.5895	255.1452	128.0762			2
13							R	175.1190	88.0631	158.0924	79.5498			1

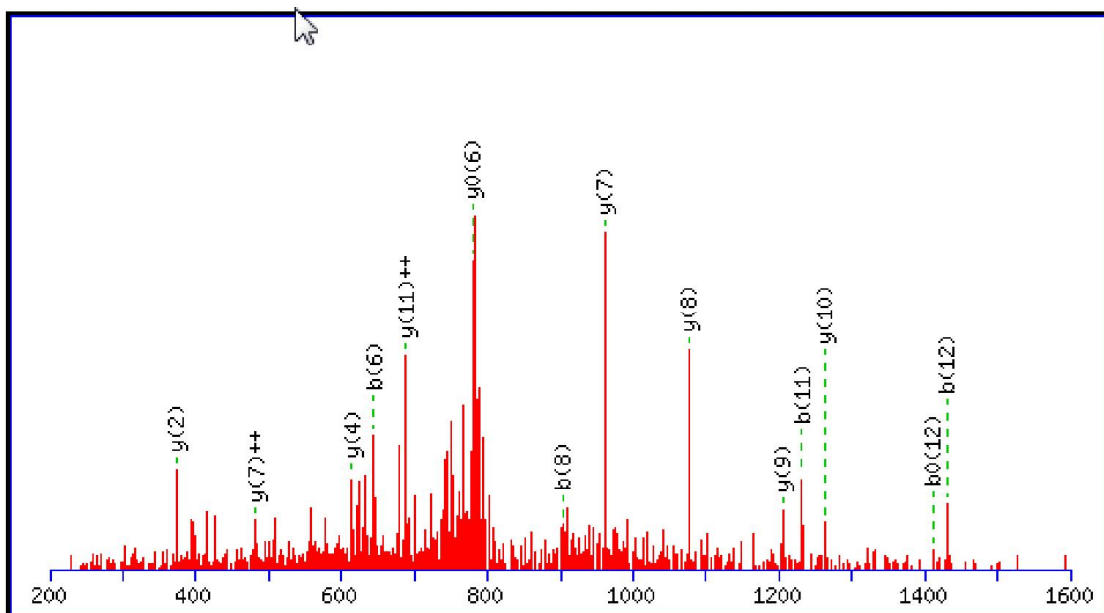
MS/MS Fragmentation of **LDLGEDYPSGKKR**Found in **043143**, Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15 OS=Homo sapiens GN=DHX15 PE=1 SV=2

Match to Query 8298: 1602.825648 from(802.420100,2+) intensity(50729.6211)

Title: File1332 Spectrum10904 scans: 12145

Data file I:\2013-9-14-Hela-Prometh-Fr10-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc)**: 1602.8253

Fixed modifications: Carbamidomethyl (C) (apply to specified resi

Variable modifications:

K11 : Propionyl (K)**K12** : Propionyl-Methylation (K)

Ions Score: 31 Expect: 0.76

Matches : 14/114 fragment ions using 27 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b [*]	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺	y ⁰	y ⁰⁺⁺	#	
1	114.0913	57.5493					L							13	
2	229.1183	115.0628			211.1077	106.0575	D	1490.7486	745.8779		1473.7220	737.3646	1472.7380	736.8726	12
3	342.2023	171.6048			324.1918	162.5995	L	1375.7216	688.3644		1358.6951	679.8512	1357.7110	679.3592	11
4	399.2238	200.1155			381.2132	191.1103	G	1262.6375	631.8224		1245.6110	623.3091	1244.6270	622.8171	10
5	528.2664	264.6368			510.2558	255.6316	E	1205.6167	603.3117		1188.5895	594.7984	1187.6055	594.3064	9
6	643.2935	322.1503			625.2828	313.1450	D	1076.5735	538.7904		1059.5469	530.2771	1058.5629	529.7851	8
7	808.3567	403.6820			788.3461	394.6767	Y	961.5465	481.2769		944.5200	472.7636	943.5360	472.2716	7
8	903.4094	452.2084			885.3989	443.2031	P	796.4832	399.7452		781.4567	391.2320	780.4726	390.7400	6
9	990.4415	495.7244			972.4309	486.7191	S	701.4305	351.2189		684.4039	342.7056	683.4199	342.2136	5
10	1047.4629	524.2351			1029.4524	515.2298	G	614.3984	307.7028		597.3719	299.1896			4
11	1231.5841	616.2957	1214.5576	607.7824	1213.5735	607.2904	K	557.3770	279.1921		540.3504	270.6788			3
12	1429.7209	715.3641	1412.6944	706.8508	1411.7104	706.3588	K	373.2558	187.1315		356.2292	178.6183			2
13							R	175.1190	88.0631		158.0924	79.5498			1

MS/MS Fragmentation of **ASKDYSGFR**

Found in **G3XAA8**, La ribonucleoprotein domain family, member 4, isoform CRA_j OS=Homo sapiens GN=LARP4 PE=2 SV=1

Match to Query 2199: 1099.528908 from(550.771730, 2+) intensity(348793.2813)

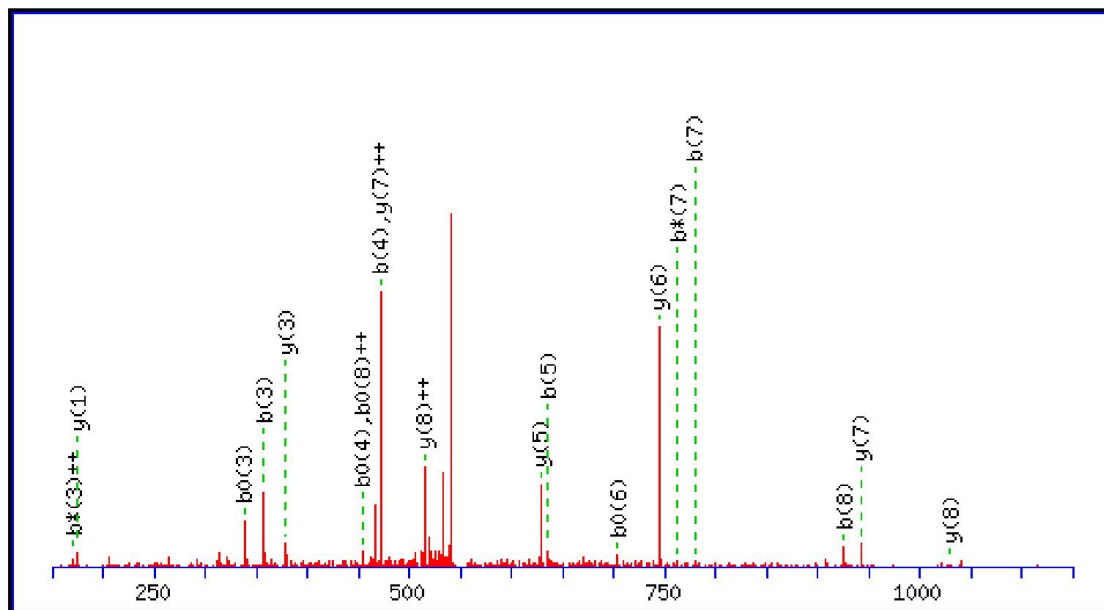
Title: File1332 Spectrum8043 scans: 9165

Data file I:\2013-9-14-Hela-Prometh-Fri10-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1099.5298

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

Variable modifications:

K3 : Propionyl-Methylation (K)

Ions Score: 48 **Expect:** 0.0032

Matches : 19/84 fragment ions using 27 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							9
2	159.0764	80.0418			141.0659	71.0366	S	1029.5000	515.2536	1012.4734	506.7404	1011.4894	506.2483	8
3	357.2132	179.1103	340.1867	170.5970	339.2027	170.1050	K	942.4680	471.7376	925.4414	463.2243	924.4574	462.7323	7
4	472.2402	236.6237	455.2136	228.1105	454.2296	227.6185	D	744.3311	372.6692	727.3046	364.1559	726.3206	363.6639	6
5	635.3035	318.1554	618.2770	309.6421	617.2930	309.1501	Y	629.3042	315.1557	612.2776	306.6425	611.2936	306.1504	5
6	722.3355	361.6714	705.3090	353.1581	704.3250	352.6661	S	466.2409	233.6241	449.2143	225.1108	448.2303	224.6188	4
7	779.3570	390.1821	762.3305	381.6689	761.3464	381.1769	G	379.2088	190.1081	362.1823	181.5948			3
8	926.4254	463.7164	909.3989	455.2031	908.4149	454.7111	F	322.1874	161.5973	305.1608	153.0840			2
9							R	175.1190	88.0651	153.0924	79.5498			1

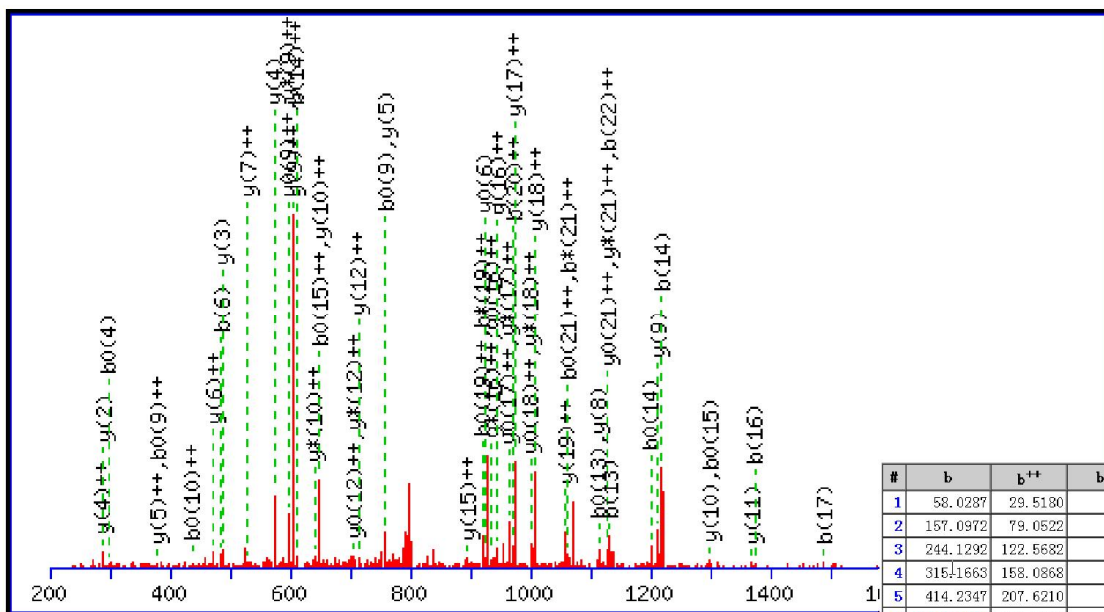
Found in **Q8IYB7**, DIS3-like exonuclease 2 OS=Homo sapiens GN=DIS3L2 PE=1 SV=4

Match to Query 17621: 2429.267352 from(810.763060,3+) intensity(105384.4297)

Title: File1332 Spectrum8382 scans: 9518

Data file I:\2013-9-14-Hela-Prometh-Fr10-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							23
2	157.0972	79.0522					V	2373.2521	1187.1297	2356.2255	1178.6164	2355.2415	1178.1244	22
3	244.1292	122.5682			226.1186	113.5629	S	2274.1837	1137.5955	2257.1571	1129.0822	2256.1731	1128.5902	21
4	315-1663	158.0868			297.1557	149.0815	A	2187.1517	1094.0795	2170.1251	1085.5662	2169.1411	1085.0742	20
5	414.2347	207.6210			396.2241	198.6157	V	2116.1145	1058.5609	2099.0880	1050.0476	2098.1040	1049.5556	19
6	485.2718	243.1395			467.2613	234.1343	A	2017.0461	1009.0267	2000.0196	1000.5134	1999.0356	1000.0214	18
7	542.2933	271.6503			524.2827	262.6450	G	1946.0090	973.5081	1928.9825	964.9949	1927.9985	964.5029	17
8	639.3461	320.1767			621.3355	311.1714	P	1888.9876	944.9974	1871.9610	936.4841	1870.9770	935.9921	16
9	776.4050	388.7061			758.3944	379.7008	H	1791.9348	896.4710	1774.9082	887.9578	1773.9242	887.4657	15
10	891.4319	446.2196			873.4213	437.2143	D	1654.8759	827.9418	1637.8493	819.4283	1636.8653	818.9363	14
11	1004.5180	502.7616			986.5054	493.7563	I	1539.8489	770.4281	1522.8224	761.9148	1521.8384	761.4228	13
12	1061.5374	531.2724			1043.5269	522.2671	G	1426.7649	713.8961	1409.7383	705.3728	1408.7543	704.8908	12
13	1132.5745	566.7909			1114.5640	557.7856	A	1369.7434	685.3753	1352.7169	676.8621	1351.7328	676.3701	11
14	1219.6066	610.3069			1201.5960	601.3016	S	1298.7063	649.8568	1281.6797	641.3435	1280.6957	640.8515	10
15	1316.6593	658.8333			1298.6488	649.8280	P	1311.6743	606.3408	1194.6477	597.8275	1193.6637	597.3355	9
16	1373.6808	687.3440			1355.6702	678.3388	G	1114.6215	557.8144	1097.5949	549.3011	1096.6109	548.8091	8
17	1488.7077	744.8575			1470.6972	735.8522	D	1057.6000	529.3037	1040.5735	520.7904	1039.5895	520.2984	7
18	1672.8289	836.9181	1655.8024	828.4048	1654.8184	827.9128	K	942.5731	471.7902	925.5465	463.2769	924.5625	462.7849	6
19	1856.9501	928.9787	1839.9236	920.4654	1838.9395	919.9734	K	758.4519	379.7296	741.4254	371.2163	740.4413	370.7243	5
20	1943.9821	972.4947	1926.9556	963.9814	1925.9716	963.4894	S	574.3307	287.6690	557.3042	279.1557	556.3202	278.6637	4
21	2142.1190	1071.5631	2125.0924	1063.0498	2124.1084	1062.5578	K	487.2987	244.1530	470.2722	235.6397			3
22	2256.1619	1128.5846	2239.1353	1120.0713	2238.1513	1119.5793	N	289.1619	145.0848	272.1353	136.5713			2
23							R	175.1190	88.0631	158.0924	79.5498			1

Monoisotopic mass of neutral peptide Mr(calc): 2429.2663

Fixed modifications: Carbamidomethyl (C) (apply to specified)

Variable modifications:

K18 : Propionyl (K)

K19 : Propionyl (K)

K21 : Propionyl-Methylation (K)

Ions Score: 48 Expect: 0.027

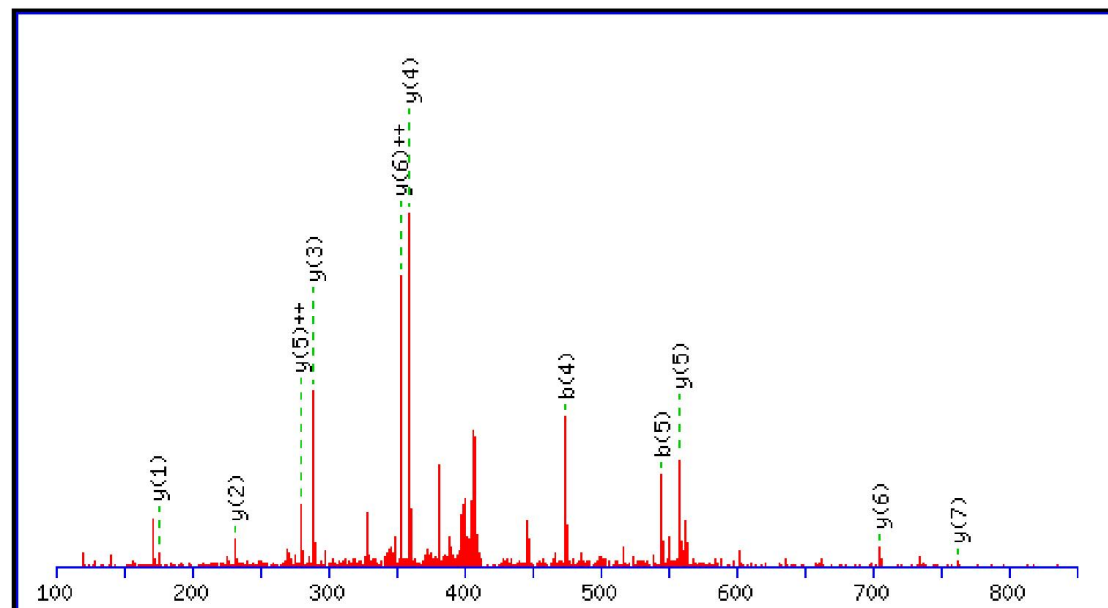
Matches : 56/220 fragment ions using 100 most intense peaks

Match to Query 466: 832.454808 from(417.234680,2+) intensity(115552.1172)

Title: File1332 SpecTrum4990 scans: 5984

Data file I:\2013-9-14-Hela-Prometh-Fr10-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 832.4555**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues only)**Variable modifications:****K4** : Propionyl-Methylation (K)**Ions Score:** 53 **Expect:** 0.0019**Matches** : 11/50 fragment ions using 21 most intense peaks ([help](#))

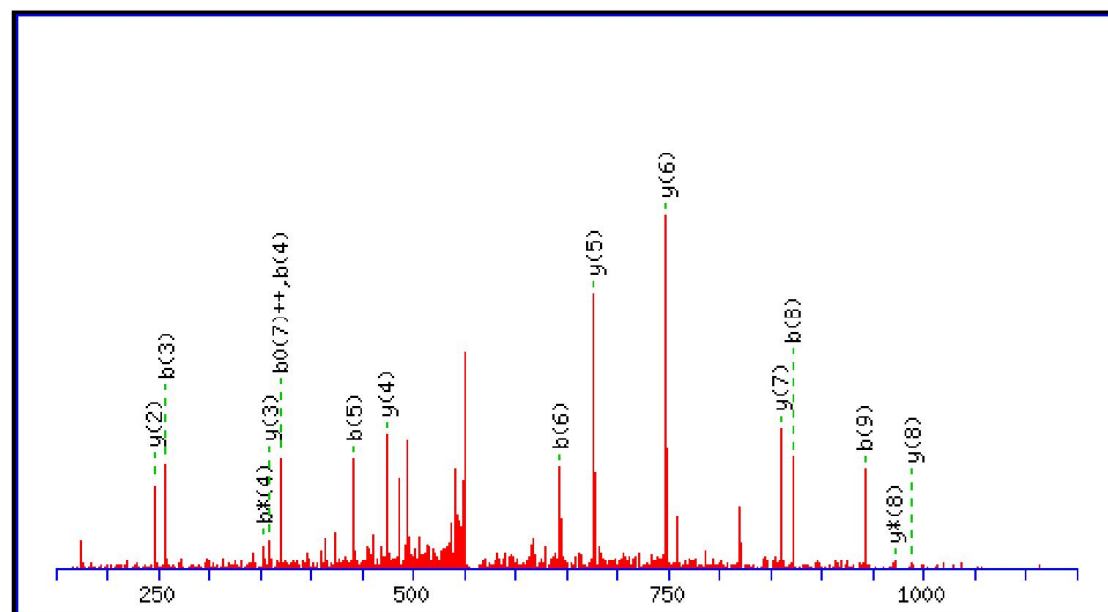
#	b	b ⁺⁺	b*	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	#
1	72.0444	36.5258			A					8
2	129.0659	65.0366			G	762.4257	381.7165	745.3992	373.2032	7
3	276.1343	138.5708			F	705.4042	353.2058	688.3777	344.6925	6
4	474.2711	237.6392	457.2445	229.1259	K	558.3358	279.6715	541.3093	271.1583	5
5	545.3082	273.1577	528.2817	264.6445	A	360.1990	180.6031	343.1724	172.0899	4
6	602.3297	301.6685	585.3031	293.1552	G	289.1619	145.0846	272.1353	136.5713	3
7	659.3511	330.1792	642.3246	321.6659	G	232.1404	116.5738	215.1139	108.0606	2
8					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 2331: 1115.656828 from(558.835690, 2+) intensity(200682.9688)

Title: File1332 Spectrum8287 scans: 9419

Data file I:\2013-9-14-Hela-Prometh-Fr10-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1115.6571**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K6** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 65 **Expect:** 0.00014**Matches** : 16/86 fragment ions using 19 most intense peaks (

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					C							10
2	129.0659	65.0366					A	1059.6430	530.3251	1042.6164	521.8118	1041.6324	521.3198	9
3	257.1244	129.0659	240.0979	120.5526			Q	988.6058	494.8066	971.5793	486.2933	970.5953	485.8013	8
4	370.2085	185.6079	353.1819	177.0913			L	860.5473	430.7773	843.5207	422.2640	842.5367	421.7720	7
5	441.2456	221.1264	424.2191	212.6132			A	747.4632	374.2352	730.4367	365.7220	729.4526	365.2300	6
6	643.4046	322.2059	626.3781	313.6927			K	676.4261	338.7167	659.3995	330.2034	658.4155	329.7114	5
7	758.4316	379.7194	741.4050	371.2061	740.4210	370.7141	D	474.2671	237.6372	457.2405	229.1239	456.2565	228.6319	4
8	871.5156	436.2615	854.4891	427.7482	853.5051	427.2562	I	359.2401	180.1237	342.2136	171.6104			3
9	942.5527	471.7800	925.5262	463.2667	924.5422	462.7747	A	246.1561	123.5817	229.1295	115.0684			2
10							R	175.1190	88.0631	158.0924	79.5498			1

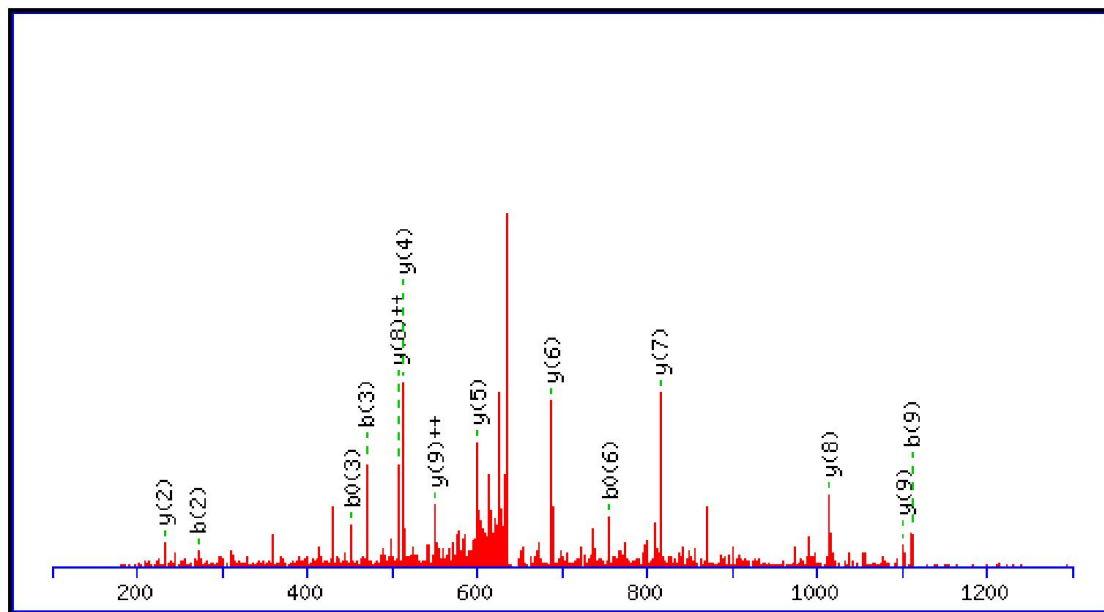
Found in **P51608**, Methyl-CpG-binding protein 2 OS=Homo sapiens GN=MECP2 PE=1 SV=1

Match to Query 6792: 1284.703948 from(643.359250,2+) intensity(320897.4375)

Title: File1335 Spectrum6402 scans: 7141

Data file I:\2013-9-14-Hela-Prometh-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1284.7037

Fixed modifications: Carbamidomethyl (C) (apply to specified residue)

Variable modifications:

K1 : Propionyl (K)

K3 : Propionyl-Methylation (K)

K8 : Propionyl (K)

Ions Score: 37 Expect: 0.15

Matches : 14/98 fragment ions using 33 most intense peaks ([help](#))

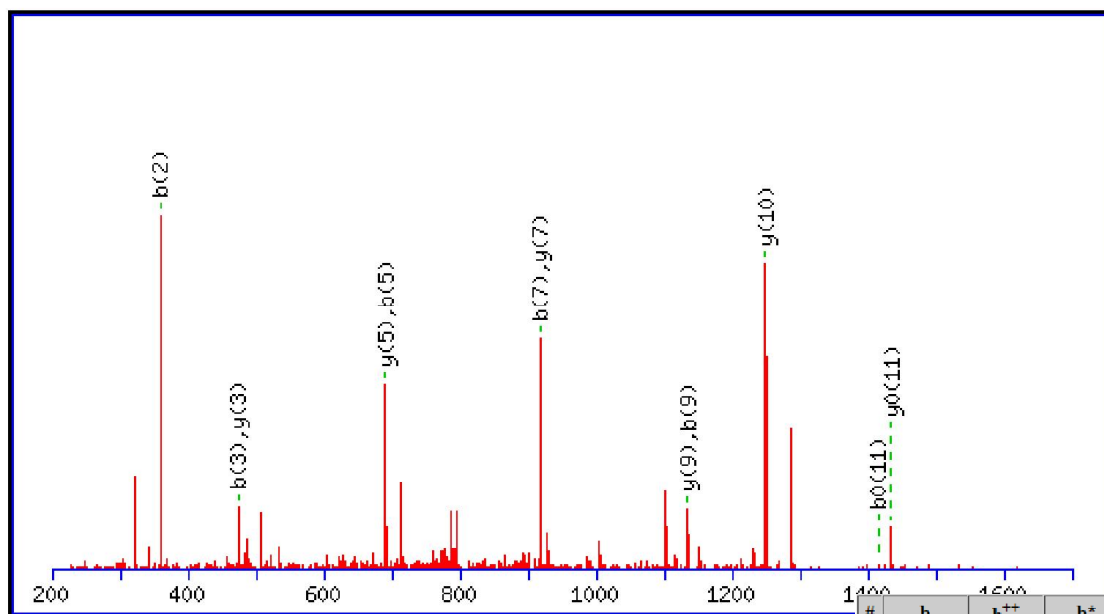
#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							10
2	272.1605	136.5839	255.1339	128.0706	254.1499	127.5786	S	101.5899	551.2986	1084.5633	542.7853	1083.5793	542.2933	9
3	470.1973	235.6523	453.2708	227.1390	452.2867	226.6470	K	1014.5578	507.7826	997.5313	499.2693	996.5473	498.7773	8
4	599.3399	300.1736	582.3134	291.6603	581.3293	291.1683	E	816.4210	408.7141	799.3945	400.2009	798.4104	399.7089	7
5	686.3719	343.6896	669.3454	335.1763	668.3614	334.6843	S	687.3784	344.1928	670.3519	335.6796	669.3678	335.1876	6
6	773.4040	387.2056	756.3774	378.6923	755.3934	378.2003	S	600.3464	300.6768	583.3198	292.1636	582.3358	291.6715	5
7	870.4567	435.7320	853.4302	427.2187	852.4462	426.7267	P	513.3144	257.1608	496.2878	248.6475			4
8	1054.5779	527.7926	1037.5514	519.2793	1036.5673	518.7873	K	416.2616	208.6344	399.2350	200.1212			3
9	1111.5994	556.3033	1094.5728	547.7900	1093.5888	547.2980	G	232.1404	116.5738	215.1139	108.0606			2
10							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 9205: 1606.867288 from(804.440920,2+) intensity(470954.3125)

Title: File1311 Spectrum7603 scans: 8199

Data file I:\2013-9-13-Hela-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1606.8

Fixed modifications: Carbamidomethyl (C) (apply to sp

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K11 : Propionyl-(13CD3)Methyl (K)

Ions Score: 38 Expect: 0.16

Matches : 13/122 fragment ions using 14 most intense

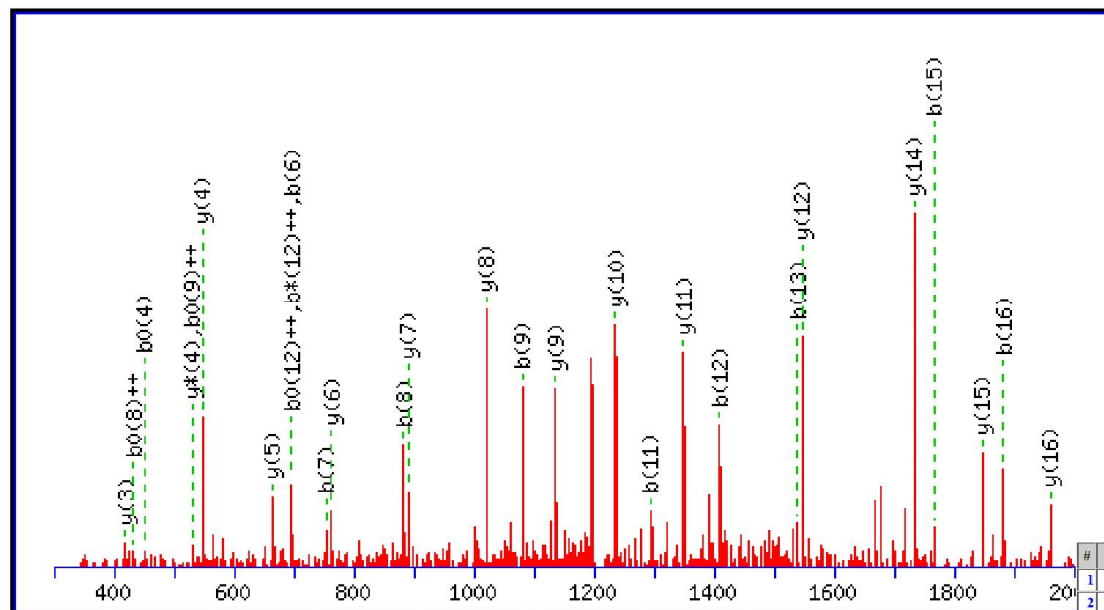
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	157.1084	79.0578	140.0818	70.5446			R							12
2	359.2674	180.1373	342.2409	171.6241			K	1451.7769	726.3921	1434.7504	717.8788	1433.7664	717.3868	11
3	474.2943	237.6508	457.2678	229.1375	456.2838	228.6455	D	1249.6179	625.3126	1232.5914	616.7993	1231.6074	616.3073	10
4	575.3420	288.1746	558.3155	279.6614	557.3315	279.1694	T	1134.5910	567.7991	1117.5644	559.2859	1116.5804	558.7938	9
5	690.3690	345.6881	673.3424	337.1748	672.3584	336.6828	D	1033.5433	517.2753	1016.5168	508.7620	1015.5327	508.2700	8
6	805.3959	403.2016	788.3694	394.6883	787.3853	394.1963	D	918.5164	459.7618	901.4898	451.2485	900.5058	450.7565	7
7	918.4800	459.7436	901.4534	451.2303	900.4694	450.7383	I	803.4894	402.2483	786.4629	393.7351	785.4788	393.2431	6
8	1047.5226	524.2649	1030.4960	515.7516	1029.5120	515.2596	E	690.4054	345.7063	673.3788	337.1930	672.3948	336.7010	5
9	1134.5546	567.7809	1117.5280	559.2677	1116.5440	558.7757	S	561.3628	281.1850	544.3362	272.6717	543.3522	272.1797	4
10	1231.6074	616.3073	1214.5808	607.7940	1213.5968	607.3020	P	474.3307	237.6690	457.3042	229.1557			3
11	1433.7664	717.3868	1416.7398	708.8735	1415.7558	708.3815	K	377.2780	189.1426	360.2514	180.6293			2
12							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 18308: 2428.162208 from(1215.088380,2+) intensity(122499.4766)

Title: File1319 Spectrum17600 scans: 18605

Data file I:\2013-9-13-Hela-Prometh-Fr2-ZW.mgf

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

Or, 300 2000 Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc) : 2428.1614

Fixed modifications: Carbamidomethyl (C) (apply to specified residue)

Variable modifications:

K9 : Propionyl-Methylation (K)

Ions Score: 100 Expect: 7.8e-008

Matches : 28/208 fragment ions using 34 most intense peaks [\(help\)](#)

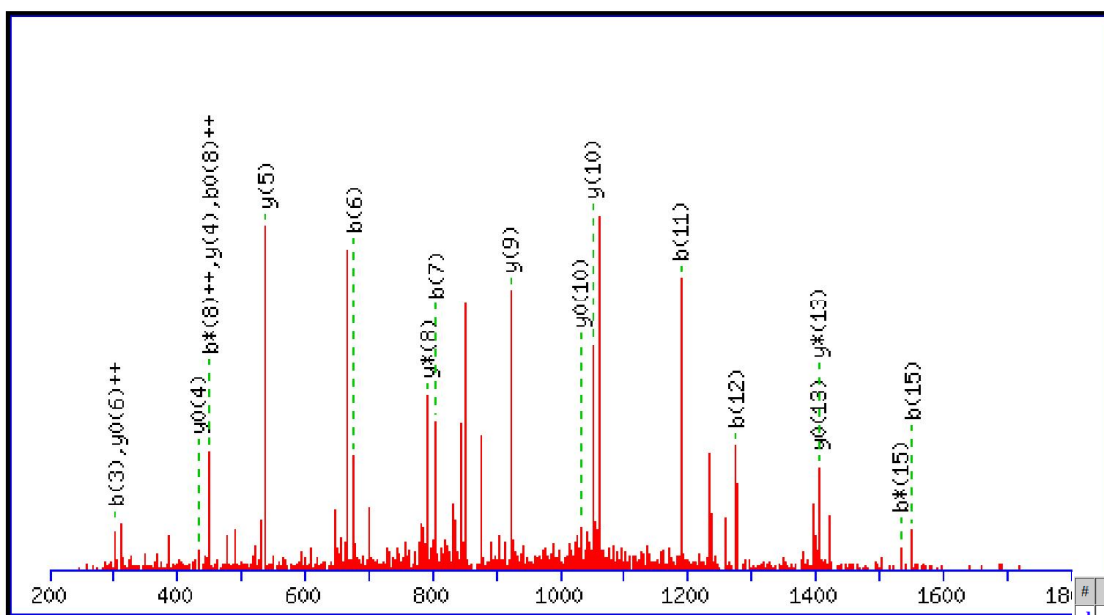
#	b	b ⁺⁺	b [*]	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	138.0662	69.5367					H							20
2	237.1346	119.0709					V	2292.1098	1146.5585	2275.0832	1138.0453	2274.0992	1137.5532	19
3	368.1751	184.5912					M	2193.0414	1097.0243	2176.0148	1088.5110	2175.0308	1088.0190	18
4	469.2228	235.1150			451.2122	226.1097	T	2062.0009	1031.5041	2044.9743	1022.9908	2043.9903	1022.4988	17
5	583.2657	292.1365	566.2391	283.6232	565.2551	283.1312	N	1960.9532	980.9802	1943.9267	972.4670	1942.9426	971.9750	16
6	696.3498	348.6785	679.3232	340.1652	678.3392	339.6732	L	1846.9103	923.9588	1829.8837	915.4455	1828.8997	914.9535	15
7	753.3712	377.1892	736.3447	368.6760	735.3607	368.1840	G	1733.8262	867.4167	1716.7997	858.9035	1715.8156	858.4115	14
8	882.4138	441.7105	865.3873	433.1973	864.4032	432.7053	E	1676.8047	838.9060	1659.7782	830.3927	1658.7942	829.9007	13
9	1080.5506	540.7790	1063.5241	532.2657	1062.5401	531.7737	K	1547.7622	774.3847	1530.7356	765.8714	1529.7516	765.3794	12
10	1193.6347	597.3210	1176.6082	588.8077	1175.6241	588.3157	L	1349.6253	675.3163	1332.5988	666.8030	1331.6148	666.3110	11
11	1294.6824	647.8448	1277.6558	639.3316	1276.6718	638.8395	T	1236.5413	618.7743	1219.5147	610.2610	1218.5307	609.7690	10
12	1409.7093	705.3583	1392.6828	696.8450	1391.6988	696.3530	D	1135.4936	568.2504	1118.4670	559.7372	1117.4830	559.2451	9
13	1538.7519	769.8796	1521.7254	761.3663	1520.7414	760.8743	E	1020.4066	510.7370	1003.4401	502.2237	1002.4561	501.7317	8
14	1667.7945	834.4009	1650.7680	825.8876	1649.7839	825.3956	E	891.4240	446.2157	874.3975	437.7024	873.4135	437.2104	7
15	1766.8629	883.9351	1749.8364	875.4218	1748.8524	874.9298	V	762.3815	381.6944	745.3549	373.1811	744.3709	372.6891	6
16	1881.8899	941.4486	1864.8633	932.9353	1863.8793	932.4433	D	663.3130	332.1602	646.2865	323.6469	645.3025	323.1549	5
17	2010.9325	1005.9699	1993.9059	997.4566	1992.9219	996.9646	E	548.2861	274.6467	531.2595	266.1334	530.2755	265.6414	4
18	2141.9729	1071.4901	2124.9464	1062.9768	2123.9624	1062.4848	M	419.2435	210.1254	402.2170	201.6121			3
19	2255.0570	1128.0321	2238.0305	1119.5189	2237.0464	1119.0269	I	288.2030	144.6051	271.1765	136.0919			2
20							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 10736: 1723.880108 from(862.947330,2+) intensity(604150.8125)

Title: File1319 Spectrum16970 scans: 17949

Data file I:\2013-9-13-Hela-Prometh-Fr2-ZW.mgf

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

Or, 200 1800 Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1723.8861

Fixed modifications: Carbamidomethyl (C) (apply to specified residues)

Variable modifications:

K5 : Propionyl-(13CD3)Methyl (K)

Ions Score: 27 Expect: 1.6

Matches : 19/176 fragment ions using 30 most intense peaks ([help](#))

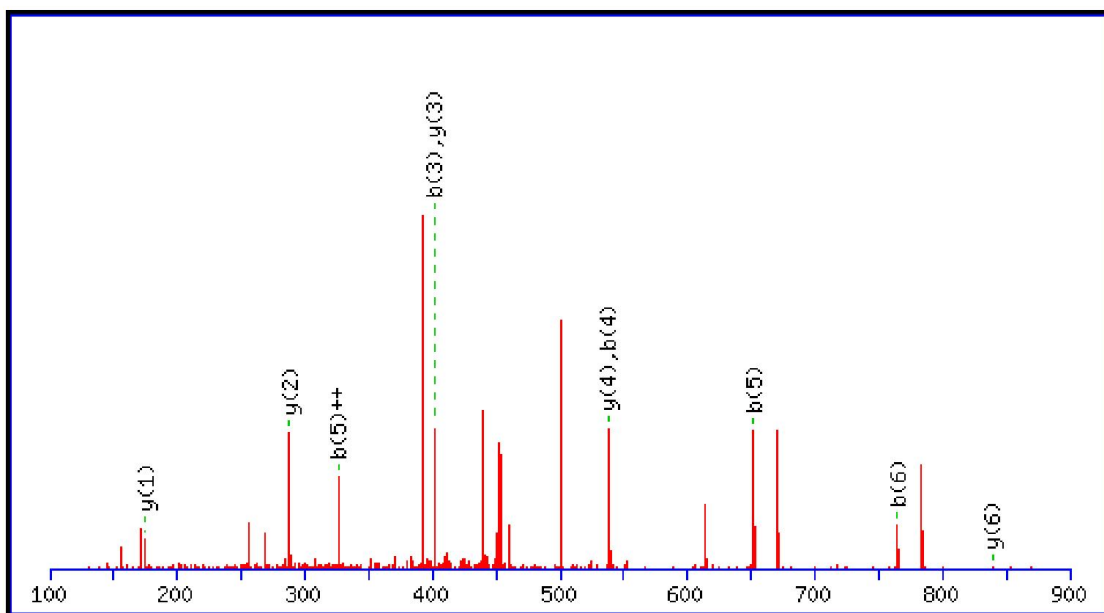
#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	115.0502	58.0287	98.0237	49.5155			N							16
2	216.0979	108.5526	199.0713	100.0393	198.0873	99.5473	T	1610.8504	805.9289	1593.8239	797.4156	1592.8399	796.9236	15
3	303.1299	152.0686	286.1034	143.5553	285.1193	143.0633	S	1509.8028	755.4050	1492.7762	746.8917	1491.7922	746.3997	14
4	374.1670	187.5872	357.1405	179.0739	356.1565	178.5819	A	1422.7707	711.8890	1405.7442	703.3757	1404.7602	702.8837	13
5	576.3260	288.6667	559.2995	280.1534	558.3155	279.6614	K	1351.7336	676.3704	1334.7071	667.8572	1333.7231	667.3652	12
6	675.3945	338.2009	658.3679	329.6876	657.3839	329.1956	V	1149.5746	575.2909	1132.5481	566.7777	1131.5640	566.2857	11
7	804.4370	402.7222	787.4105	394.2089	786.4265	393.7169	E	1050.5062	525.7567	1033.4796	517.2435	1032.4956	516.7515	10
8	917.5211	459.2642	900.4946	450.7509	899.5105	450.2589	L	921.4636	461.2354	904.4371	452.7222	903.4530	452.2302	9
9	1014.5739	507.7906	997.5473	499.2773	996.5633	498.7853	P	808.3795	404.6934	791.3530	396.1801	790.3690	395.6881	8
10	1101.6059	551.3066	1084.5794	542.7933	1083.5953	542.3013	S	711.3268	356.1670	694.3002	347.6537	693.3162	347.1617	7
11	1188.6379	594.8226	1171.6114	586.3093	1170.6274	585.8173	S	624.2947	312.6510	607.2682	304.1377	606.2842	303.6457	6
12	1275.6700	638.3386	1258.6434	629.8253	1257.6594	629.3333	S	537.2627	269.1350	520.2362	260.6217	519.2522	260.1297	5
13	1376.7176	688.8625	1359.6911	680.3492	1358.7071	679.8572	T	450.2307	225.6190	433.2041	217.1057	432.2201	216.6137	4
14	1463.7497	732.3785	1446.7231	723.8652	1445.7391	723.3732	S	349.1830	175.0951	332.1565	166.5819	331.1724	166.0899	3
15	1550.7817	775.8945	1533.7551	767.3812	1532.7711	766.8892	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
16							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 1462: 937.631628 from(469.823090, 2+) intensity(159232.7188)

Title: File1359 Spectrum23072 scans: 24416

Data file J:\2013-9-14-A549-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 937.6346**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:**

K3 : Propionyl-(13CD3)Methyl (K)

Ions Score: 25 **Expect:** 0.17**Matches :** 10/44 fragment ions using 16 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	100.0757	50.5415			V					7
2	199.1441	100.0757			V	839.5734	420.2903	822.5469	411.7771	6
3	401.3031	201.1552	384.2766	192.6419	K	740.5050	370.7561	723.4785	362.2429	5
4	538.3620	269.6847	221.3355	261.1714	H	538.3460	269.6766	521.3194	261.1634	4
5	651.4461	326.2267	634.4195	317.7134	L	401.2871	201.1472	384.2605	192.6339	3
6	764.5302	382.7687	747.5036	374.2554	I	288.2030	144.6051	271.1765	136.0919	2
7					R	175.1190	88.0631	158.0924	79.5498	1

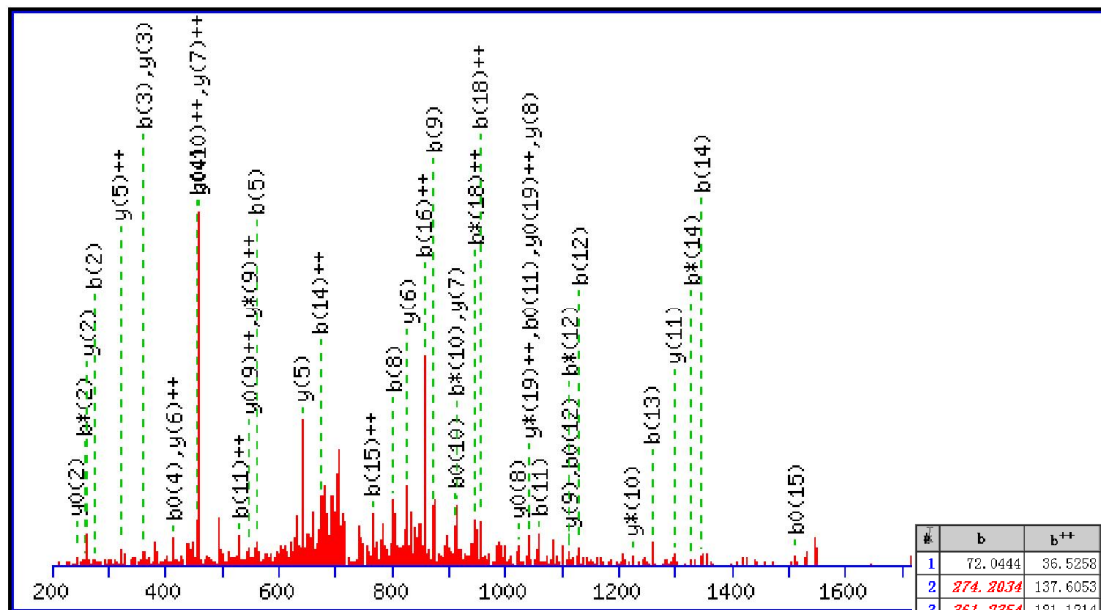
Found in Q7Z478, ATP-dependent RNA helicase DHX29 OS=Homo sapiens GN=DHX29 PE=1 SV=2

Match to Query 14229: 2170.185762 from(724.402530, 3+) intensity(27088.4707)

Title: File1359 Spectrum10130 scans: 10868

Data file J:\2013-9-14-A549-Prometh-Fr7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 2170.1866

Fixed modifications: Carbamidomethyl (C) (apply to specified)

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K15 : Propionyl (K)

K16 : Propionyl (K)

Ions Score: 42 Expect: 0.044

Matches : 45/220 fragment ions using 73 most intense peaks (h)

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							20
2	274.2034	137.6053	257.1769	129.0921			K	2100.1568	1050.5820	2083.1302	1042.0688	2082.1462	1041.5768	19
3	361.2354	181.1214	344.2089	172.6081	343.2249	172.1161	S	1897.9978	949.5025	1880.9712	940.9893	1879.9872	940.4972	18
4	432.2725	216.6399	415.2460	208.1266	414.2620	207.6346	A	1810.9658	905.9865	1793.9392	897.4732	1792.9552	896.9812	17
5	561.3151	281.1612	544.2886	272.6479	543.3046	272.1559	E	1739.9286	870.4680	1722.9021	861.9547	1721.9181	861.4627	16
6	632.3523	316.6798	615.3257	308.1665	614.3417	307.6745	A	1610.8860	805.9467	1593.8595	797.4334	1592.8755	796.9414	15
7	689.3737	345.1905	672.3472	336.6772	671.3632	336.1852	G	1539.8489	770.4281	1522.8224	761.9148	1521.8384	761.4228	14
8	802.4578	401.7325	785.4312	393.2193	784.4472	392.7272	I	1482.8275	741.9174	1465.8009	733.4041	1464.8169	732.9121	13
9	873.4949	437.2511	856.4683	428.7378	855.4843	428.2458	A	1369.7434	685.3753	1352.7169	676.8621	1351.7328	676.3701	12
10	930.5164	465.7618	913.4898	457.2485	912.5058	456.7565	G	1298.7063	649.8568	1281.6797	641.3435	1280.6957	640.8515	11
11	1059.5590	530.2831	1042.5324	521.7698	1041.5484	521.2778	E	1241.6848	621.3461	1224.6583	612.8328	1223.6743	612.3408	10
12	1130.5961	565.8017	1113.5695	557.2884	1112.5855	556.7964	A	1112.6422	556.8248	1095.6157	548.3115	1094.6317	547.8195	9
13	1258.6546	629.8310	1241.6281	621.3177	1240.6441	620.8257	Q	1041.6051	521.3062	1024.5786	512.7929	1023.5946	512.3009	8
14	1345.6867	673.3470	1328.6601	664.8337	1327.6761	664.3417	S	913.5465	457.2769	896.5200	448.7636	895.5360	448.2716	7
15	1529.8078	765.4076	1512.7813	756.8943	1511.7973	756.4023	K	825.5145	413.7609	809.4880	405.2476	808.5039	404.7556	6
16	1713.9290	857.4682	1696.9025	848.9549	1695.9185	848.4629	K	642.3933	321.7003	625.3668	313.1870	624.3828	312.6950	5
17	1810.9818	905.9945	1793.9552	897.4813	1792.9712	896.9893	P	458.2722	229.6397	441.2456	221.1264	440.2616	220.6344	4
18	1910.0502	955.5287	1893.0237	947.0155	1892.0396	946.5235	V	361.2194	181.1133	344.1928	172.6001	343.2088	172.1081	3
19	1997.0822	999.0448	1980.0557	990.5315	1979.0717	990.0395	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
20							R	175.1190	88.0631	158.0924	79.5498			1

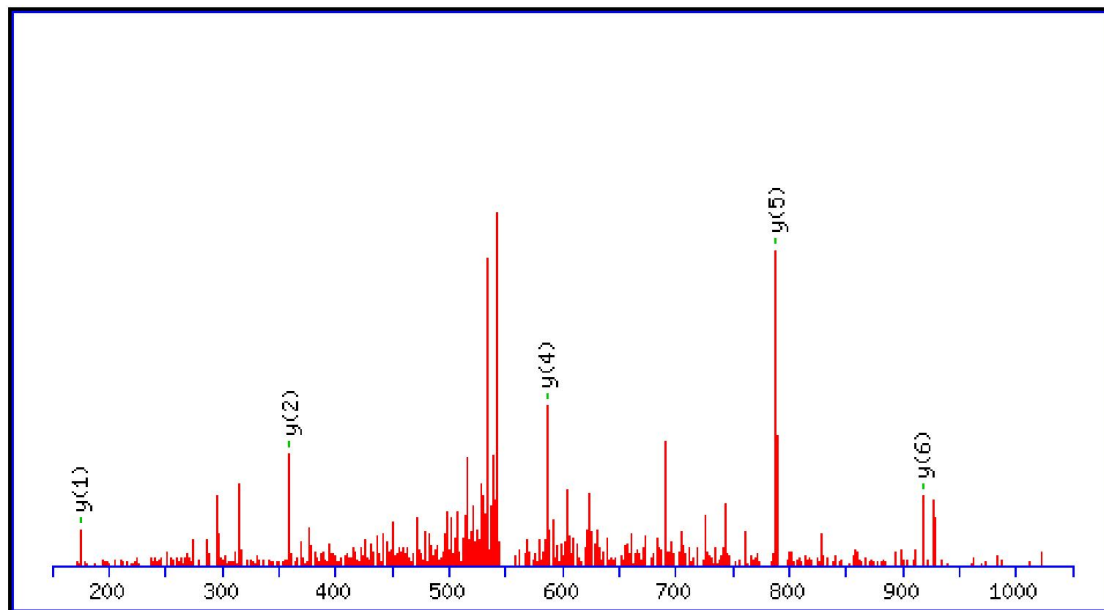
MS/MS Fragmentation of **KEKNIKR**Found in **NOQYQ7**, Heterogeneous nuclear ribonucleoprotein M (Fragment) OS=Homo sapiens GN=HNRNPM PE=4 SV=1

Match to Query 2841: 1100.681248 from(551.347900, 2+) intensity(40095.6563)

Title: File1359 Spectrum7767 scans: 8407

Data file J:\2013-9-14-A549-Prometh-Fr7-ZW.mgf

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

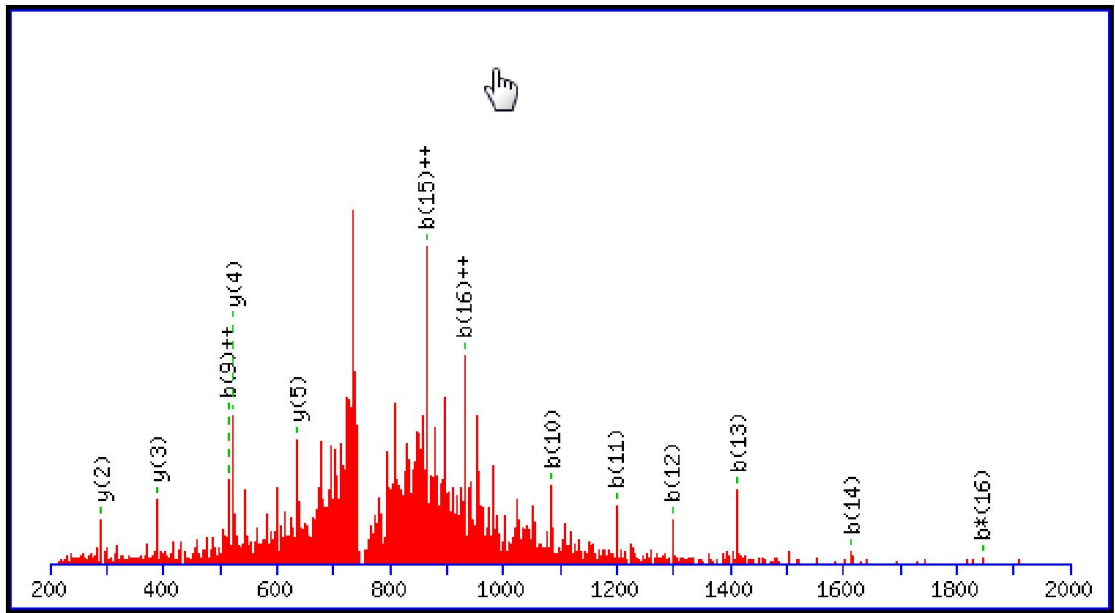
Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1100.6826**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl (K)**K3** : Propionyl-(13CD3)Methyl (K)**K6** : Propionyl (K)**Ions Score:** 35 **Expect:** 0.072**Matches** : 5/60 fragment ions using 9 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							7
2	314.1710	157.5892	297.1445	149.0759	296.1605	148.5939	E	917.5687	459.2880	900.5422	450.7747		899.5582	450.2827
3	516.3301	258.6687	499.3035	250.1554	498.3195	249.6634	K	788.5261	394.7667	771.4996	386.2534			5
4	630.3730	315.6901	613.3464	307.1769	612.3624	306.6848	N	586.3671	293.6872	569.3406	285.1739			4
5	743.4571	372.2322	726.4305	363.7189	725.4465	363.2269	I	472.3242	236.6657	455.2976	228.1525			3
6	927.5782	464.2928	910.5517	455.7795	909.5677	455.2875	K	359.2401	180.1237	342.2136	171.6104			2
7							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **FPVTDAVNKGLVDKINVDR**
Found in **Q15149**, Plectin OS=Homo sapiens GN=PLEC PE=1 SV=3

Match to Query 14835: 2250.248082 from(751.089970, 3+) intensity(81341.5703)
Title: File1359 Spectrum19464 scans: 20597
Data file J:\2013-9-14-A549-Prometh-Fr7-ZW.mgf

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



Monoisotopic mass of neutral peptide Mr(calc): 2250.2475
Fixed modifications: Carbamidomethyl (C) (apply to specified residues of
Variable modifications:
K9 : Propionyl (K)
K14 : Propionyl-(13CD3)Methyl (K)
M16 : Label:13C(1)2H(3) (M)
Ions Score: 33 **Expect:** 0.27
Matches : 13/194 fragment ions using 17 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺ *	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺ *	y ⁰	y ⁰⁺⁺	#
1	148.0757	74.5415					F							19
2	245.1285	123.0679					P	2104.1864	1052.5968	2087.1598	1044.0836	2086.1758	1043.5915	18
3	344.1969	172.6021					V	2007.1336	1004.0704	1990.1071	995.5572	1989.1230	995.0652	17
4	445.2445	223.1259			427.2340	214.1206	T	1908.0652	954.5362	1891.0386	946.0230	1890.0546	945.5310	16
5	560.2715	280.6394			542.2609	271.6341	D	1807.0175	904.0124	1789.9910	895.4991	1789.0070	895.0071	15
6	631.3086	316.1579			613.2980	307.1527	A	1691.9906	846.4989	1674.9640	837.9857	1673.9800	837.4936	14
7	730.3770	365.6921			712.3665	356.6869	V	1620.9835	810.9804	1603.9259	802.4671	1602.9429	801.9751	13
8	844.4199	422.7136	827.3934	414.2003	826.4094	413.7083	N	1521.8850	761.4462	1504.8585	752.9329	1503.8745	752.4409	12
9	1028.5411	514.7742	1011.5148	506.2609	1010.5306	505.7689	K	1407.8421	704.4247	1390.8156	695.9114	1389.8316	695.4194	11
10	1085.5626	543.2849	1068.5360	534.7717	1067.5520	534.2796	G	1223.7209	612.3641	1206.6944	603.8508	1205.7104	603.3582	10
11	1198.6467	599.8270	1181.6201	591.3137	1180.6361	590.8217	L	1166.6995	583.8534	1149.6729	575.3401	1148.6889	574.8481	9
12	1297.7151	649.3612	1280.6885	640.8479	1279.7045	640.3559	V	1053.6154	527.3113	1036.5889	518.7981	1035.6048	518.3061	8
13	1412.7420	706.8746	1395.7155	698.3614	1394.7314	697.8694	D	954.5470	477.7771	937.5205	469.2639	936.5364	468.7719	7
14	1614.9010	807.9541	1597.8745	799.4409	1596.8905	798.9489	K	839.5201	420.2637	822.4935	411.7504	821.5095	411.2584	6
15	1727.9851	864.4962	1710.9585	855.9829	1709.9745	855.4909	I	637.3610	319.1842	620.3345	310.6709	619.3505	310.1789	5
16	1863.0478	932.0275	1846.0212	923.5142	1845.0372	923.0222	L	524.2770	262.6421	507.2504	254.1289	506.2664	253.6368	4
17	1962.1162	981.5617	1945.0896	973.0484	1944.1056	972.5564	V	389.2143	195.1108	372.1878	186.5975	371.2037	186.1055	3
18	2077.1431	1039.0752	2060.1166	1030.5619	2059.1325	1030.0699	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
19							R	175.1190	88.0631	158.0924	79.5498			

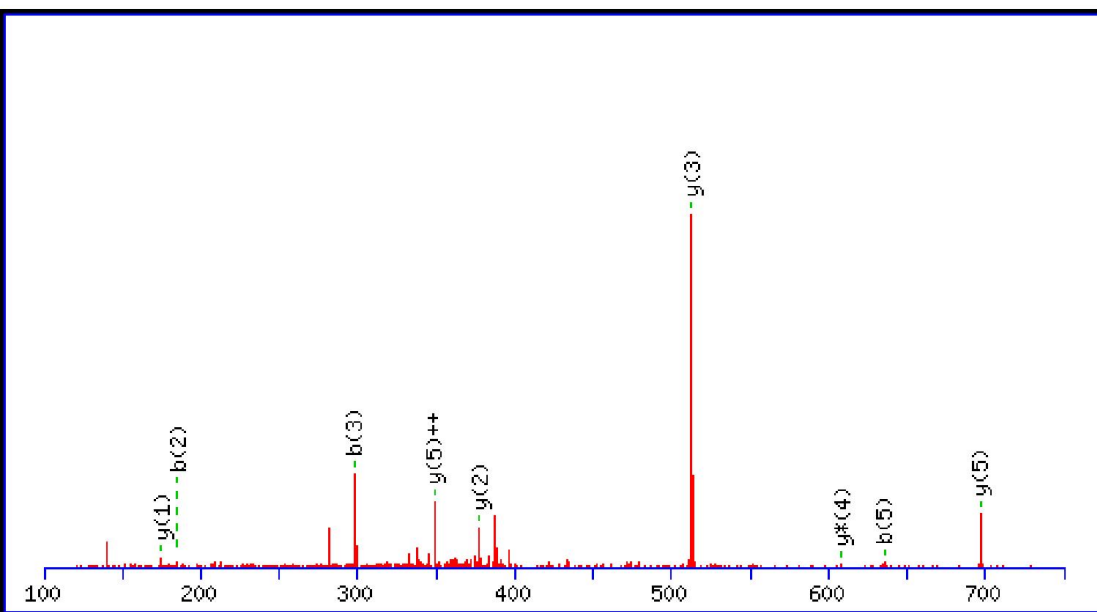
Found in **P35251**, Replication factor C subunit 1 OS=Homo sapiens GN=RFC1 PE=1 SV=4

Match to Query 802: 808.538488 from(405.276520,2+) intensity(49100.9648)

Title: File1368 Spectrum6792 scans: 7408

Data file J:\2013-9-14-A549-Prometh-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 808.5386**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****M4** : Label:13C(1)2H(3) (M)**K5** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 22 **Expect:** 0.59**Matches** : 9/32 fragment ions using 19 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ^{++*}	Seq.	y	y ⁺⁺	y [*]	y ^{++*}	#
1	114.0913	57.5493			L					6
2	185.1285	98.0679			A	696.4618	348.7345	679.4353	340.2213	5
3	298.2125	149.6099			I	625.4247	313.2160	608.3981	304.7027	4
4	433.2752	217.1412			N	512.3406	256.6740	495.3141	248.1607	3
5	635.4342	318.2207	618.4077	309.7075	K	377.2780	189.1426	360.2514	180.6293	2
6					R	175.1190	88.0631	158.0924	79.5498	1

MS/MS Fragmentation of **SKTKEAR**

Found in **J3KTE4**, Ribosomal protein L19 OS=Homo sapiens GN=RPL19 PE=3 SV=1

Match to Query 2313: 948.550568 from(475.282560,2+) intensity(21401.1680)

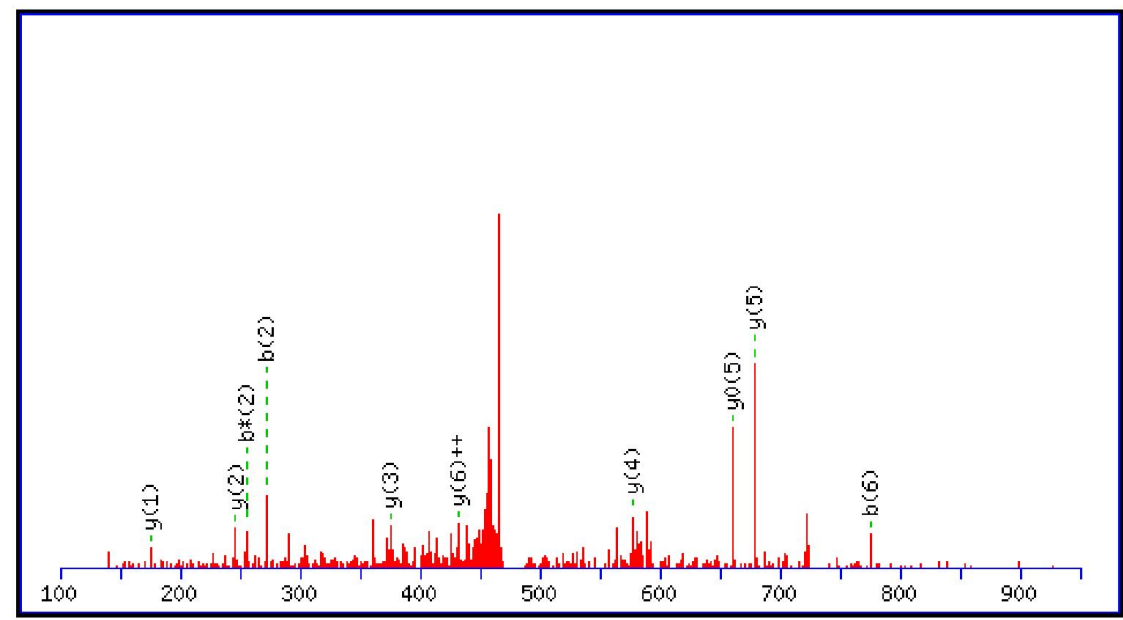
Title: File1368 Spectrum3775 scans: 4214

Data file J:\2013-9-14-A549-Prometh-Fr6-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 948.5513

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

Variable modifications:

K2 : Propionyl (K)

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 27 **Expect:** 0.69

Matches : 10/66 fragment ions using 24 most intense peak:

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							7
2	272.1605	136.5839	255.1339	128.0706	254.1499	127.5786	K	862.5265	431.7669	845.5000	423.2538	844.5160	422.7616	6
3	373.2082	187.1077	356.1816	178.5944	355.1976	178.1024	T	678.4054	339.7063	661.3788	331.1930	660.3948	330.7010	5
4	575.3672	288.1872	558.3406	279.6740	557.3566	279.1819	K	577.3577	289.1825	560.3311	280.6692	559.3471	280.1772	4
5	704.4098	352.7085	687.3832	344.1952	686.3992	343.7032	E	375.1987	188.1030	358.1721	179.5897	357.1881	179.0977	3
6	775.4469	388.2271	758.4203	379.7138	757.4363	379.2218	A	246.1561	123.5817	229.1295	115.0684			2
7							R	175.1190	88.0631	158.0924	79.5498			1

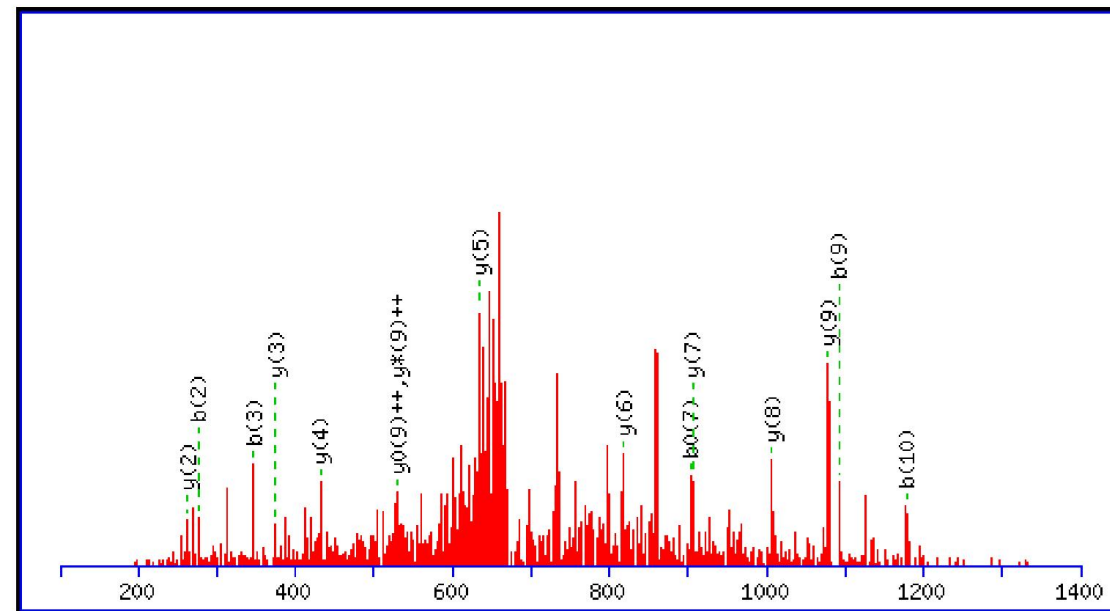
MS/MS Fragmentation of **FQATSKKGISR**Found in **Q96ST2**, Protein IWS1 homolog OS=Homo sapiens GN=IWS1 PE=1 SV=2

Match to Query 6627: 1351.773168 from(676.893860,2+) intensity(22756.0352)

Title: File1368 Spectrum8828 scans: 9530

Data file J:\2013-9-14-A549-Prometh-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1351.7732**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K6** : Propionyl (K)**K7** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 29 **Expect:** 0.48**Matches** : 15/110 fragment ions using 48 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b [*]	b ⁺⁺ *	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺ *	y ⁰	y ⁰⁺⁺	#
1	148.0757	74.5415					F							11
2	276.1343	138.5708	259.1077	130.0575			Q	1205.7121	603.3597	1188.6855	594.8464	1187.7015	594.3544	10
3	347.1714	174.0893	330.1448	165.5761			A	1077.6535	539.3304	1060.6270	530.8171	1059.6430	530.3251	9
4	448.2191	224.6132	431.1925	216.0998	430.2035	215.6079	T	1006.6164	503.8118	989.5899	495.2986	988.6058	494.8066	8
5	535.2511	268.1292	518.2245	259.6159	517.2405	259.1239	S	905.5687	453.2880	888.5422	444.7747	887.5582	444.2827	7
6	719.3723	360.1898	702.3457	351.8785	701.3617	351.1845	K	818.5367	409.7720	801.5102	401.2587	800.5261	400.7667	6
7	921.5313	461.2693	904.5047	452.7560	903.5207	452.2640	K	634.4155	317.7114	617.3890	309.1981	616.4050	308.7061	5
8	978.5527	489.7800	961.5262	481.2667	960.5422	480.7747	G	432.2565	216.6319	415.2300	208.1186	414.2459	207.6266	4
9	1091.6368	546.3220	1074.6103	537.8088	1073.6262	537.3168	I	375.2350	188.1212	358.2085	179.6079	357.2245	179.1159	3
10	1178.6688	589.8381	1161.6423	581.3248	1160.6583	580.8328	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
11							R	175.1190	88.0631	158.0924	79.5498			1

Found in **HOYJH7**, Thymopentin (Fragment) OS=Homo sapiens GN=TMPO PE=2 SV=1

Match to Query 5983: 1270.788668 from(636.401610, 2+) intensity(33045.8945)

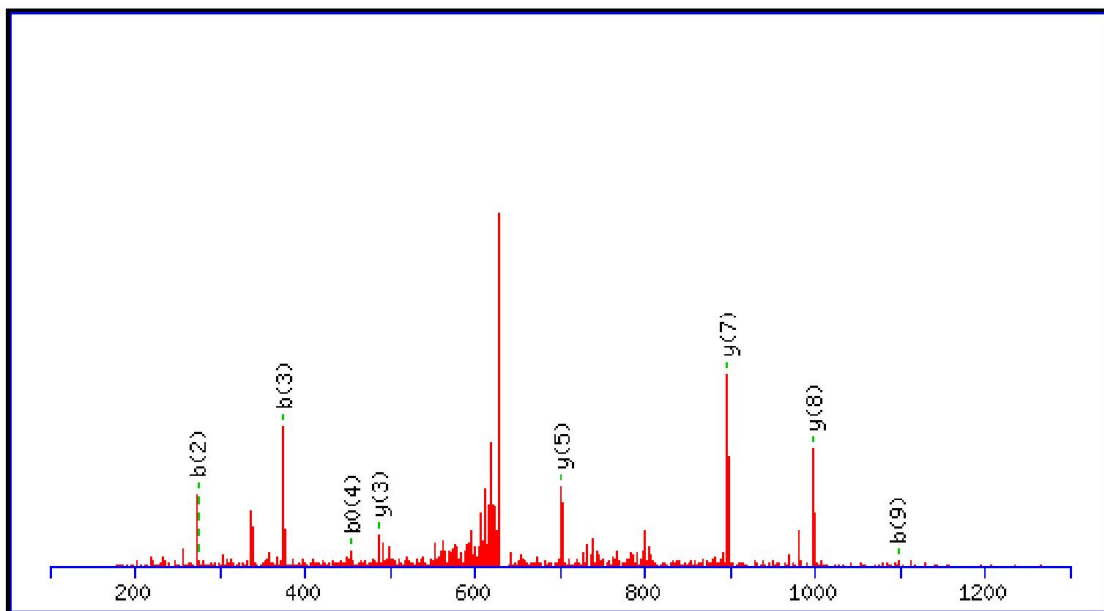
Title: File1368 Spectrum9518 scans: 10248

Data file J:\2013-9-14-A549-Prometh-Fr6-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1270.7881

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K8 : Propionyl (K)

Ions Score: 30 **Expect:** 0.18

Matches : 8/94 fragment ions using 11 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁰⁺⁺	y ⁰	y ⁰⁺	#	
1	72.0444	36.5258				A							10	
2	274.2034	137.6053	257.1769	129.0921		K	1200.7583	600.8828	1183.7318	592.3695	1182.7478	591.8775	9	
3	375.2511	188.1292	358.2245	179.6159	357.2405	179.1239	T	998.5993	499.8033	981.5728	491.2900	980.5887	490.7980	8
4	472.3038	236.6556	455.2773	228.1423	454.2933	227.6503	P	897.5516	449.2795	880.5251	440.7662	879.5411	440.2742	7
5	571.3723	286.1898	554.3457	277.8765	553.3617	277.1845	V	800.4989	400.7531	783.4723	392.2398	782.4883	391.7478	6
6	672.4199	336.7136	655.3934	328.2003	654.4094	327.7083	T	701.4305	351.2189	684.4039	342.7056	683.4199	342.2136	5
7	785.5040	393.2556	768.4775	384.7424	767.4934	384.2504	L	600.3828	300.6950	583.3562	292.1817			4
8	969.6252	485.3162	952.5986	476.8030	951.6146	476.3109	K	487.2987	244.1530	470.2722	235.6397			3
9	1097.6838	549.3455	1080.6572	540.8322	1079.6732	540.3402	Q	303.1775	152.0924	286.1510	143.5791			2
10						R	175.1190	88.0631	158.0924	79.5498			1	

MS/MS Fragmentation of **KSSDNPKR**

Found in **Q96L73**, Histone-lysine N-methyltransferase, H3 lysine-36 and H4 lysine-20 specific OS=Homo sapiens GN=NSD1 PE=1 SV=1

Match to Query 3622: 1060.578108 from(531.296330, 2+) intensity(6147.5298)

285

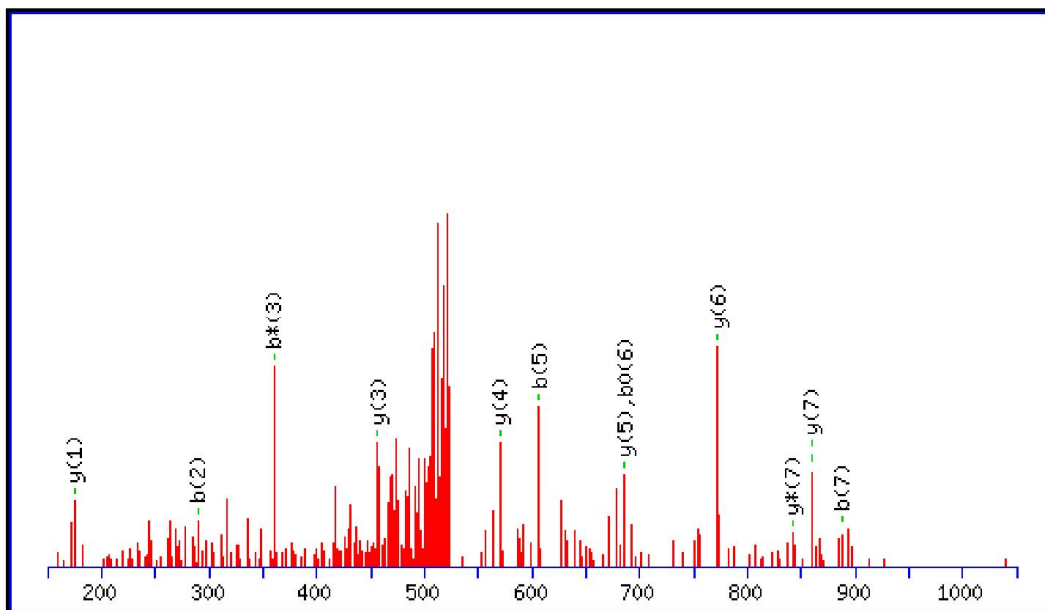
Title: File1368 Spectrum3200 scans: 3592

Data file J:\2013-9-14-A549-Prometh-Fr6-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1060.5785

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

K7 : Propionyl (K)

Ions Score: 31 **Expect:** 0.26

Matches : 12/74 fragment ions using 25 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							8
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	S	859.4268	430.2170	842.4003	421.7038	841.4163	421.2118	7
3	377.2303	189.1188	360.2038	180.6055	359.2198	180.1135	S	772.3948	386.7010	755.3682	378.1878	754.3942	377.6958	6
4	492.2573	246.6323	475.2307	238.1190	474.2467	237.6270	D	685.3628	343.1850	668.3362	334.6717	667.3522	334.1797	5
5	606.3002	303.6537	589.2737	295.1405	588.2897	294.6485	N	570.3358	285.6715	553.3093	277.1583			4
6	703.3530	352.1801	686.3264	343.6669	685.3424	343.1748	P	456.2929	228.6501	439.2663	220.1368			3
7	887.4742	444.2407	870.4476	435.7274	869.4636	435.2354	K	359.2401	180.1237	342.2136	171.6104			2
8							R	175.1190	88.0631	158.0924	79.5498			1

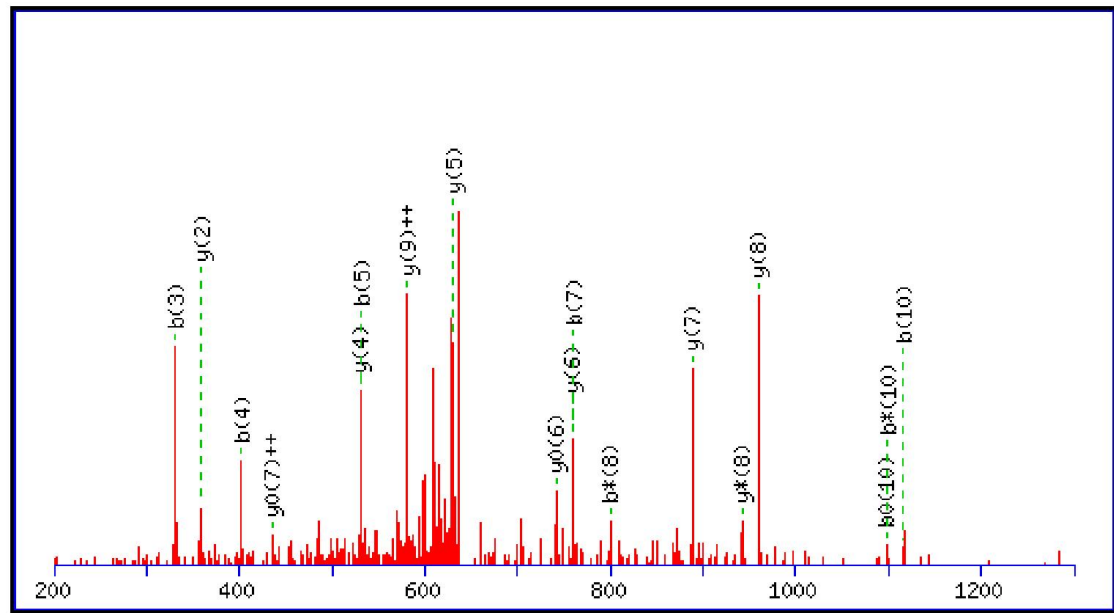
Found in **Q5UIP0**, Telomere-associated protein RIF1 OS=Homo sapiens GN=RIF1 PE=1 SV=2

Match to Query 6142: 1288.700648 from(645.357600, 2+) intensity(19868.2969)

Title: File1368 Spectrum3927 scans: 4376

Data file J:\2013-9-14-A549-Prometh-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1288.7008****Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K3** : Propionyl-(13CD3)Methyl (K)**K10** : Propionyl (K)**Ions Score: 34 Expect: 0.19****Matches : 18/100 fragment ions using 33 most intense peaks** ([help](#))

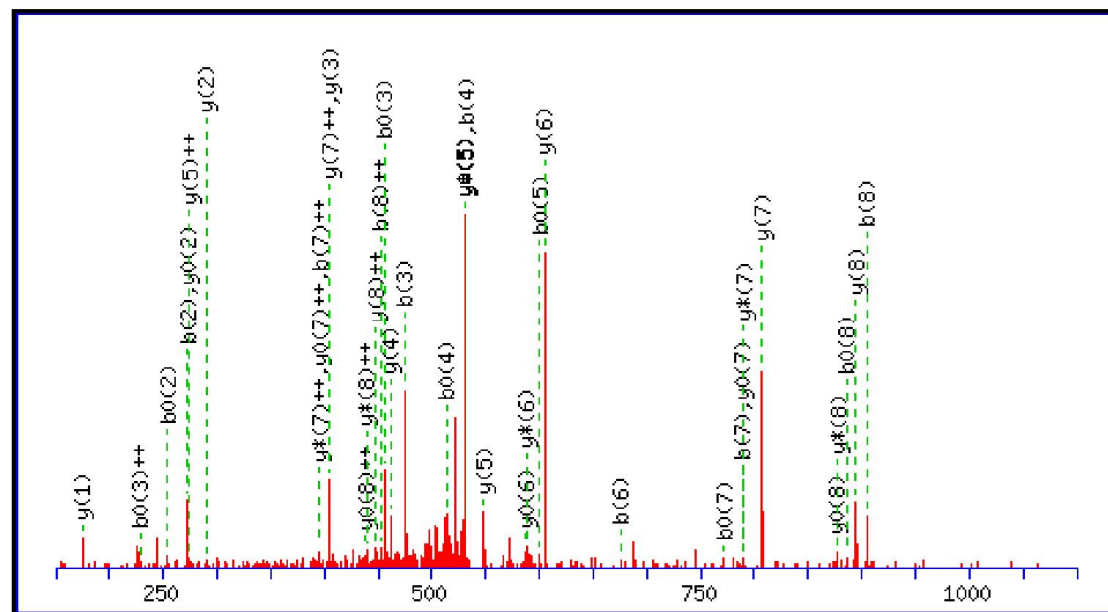
#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5259					A							11
2	129.0659	65.0366					C	1218.6710	609.8391	1201.6444	601.3258	1200.6604	600.8338	10
3	331.2249	166.1161	314.1983	157.6028			K	1161.6495	581.3284	1144.6229	572.8151	1143.6389	572.3231	9
4	402.2620	201.6346	385.2354	193.1214			A	959.4905	480.2489	942.4639	471.7356	941.4799	471.2436	8
5	531.3046	266.1559	514.2780	257.6427	513.2940	257.1506	K	888.4534	444.7303	871.4268	436.2170	870.4428	435.7250	7
6	659.3632	330.1852	642.3366	321.6719	641.3526	321.1799	Q	759.4106	380.2090	742.3842	371.6958	741.4002	371.2037	6
7	760.4108	380.7091	743.3843	372.1958	742.4003	371.7038	T	631.3522	316.1797	614.3257	307.6665	613.3416	307.1745	5
8	817.4323	409.2198	800.4057	400.7065	799.4217	400.2145	G	530.3045	265.6559	513.2780	257.1426			4
9	931.4752	466.2412	914.4487	457.7280	913.4647	457.2360	N	473.2831	237.1452	456.2565	228.6319			3
10	1115.5967	558.3018	1098.5699	549.7886	1097.5858	549.2966	K	359.2407	180.1237	342.2136	171.6104			2
11							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 3865: 1077.567968 from(539.791260, 2+) intensity(67747.7891)

Title: File1368 Spectrum2886 scans: 3262

Data file J:\2013-9-14-A549-Prometh-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1077.5687

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

Variable modifications:

K1 : Propionyl (K)

K3 : Propionyl-(13CD3)Methyl (K)

Ions Score: 41 Expect: 0.028

Matches : 39/92 fragment ions using 78 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							9
2	272.1605	136.5839	255.1339	128.0706	354.1499	127.5786	S	894.4548	447.7310	877.4283	439.2178	876.4443	438.7258	8
3	474.3195	237.6634	467.2929	229.1501	456.3089	228.6581	K	807.4228	404.2150	790.3982	395.7018	789.4122	395.2098	7
4	531.3410	266.1741	514.3144	257.6608	513.3304	257.1688	G	605.2638	303.1355	588.2372	294.6233	587.2532	294.1302	6
5	618.3730	309.6901	601.3464	301.1769	600.3624	300.6848	S	548.2423	274.6248	531.2158	266.1115	530.2317	265.6195	5
6	675.3945	338.2009	658.3679	329.6876	657.3839	329.1956	G	461.2103	231.1088	444.1837	222.5955	443.1997	222.1035	4
7	789.4374	395.2223	772.4108	386.7091	771.4268	386.2170	N	404.1888	202.5980	387.1623	194.0848	386.1783	193.5928	3
8	904.4643	452.7358	887.4378	444.2225	886.4538	443.7305	D	290.1459	145.5766	273.1133	137.0633	272.1353	136.5713	2
9							R	175.1190	88.0631	158.0924	79.5498			1

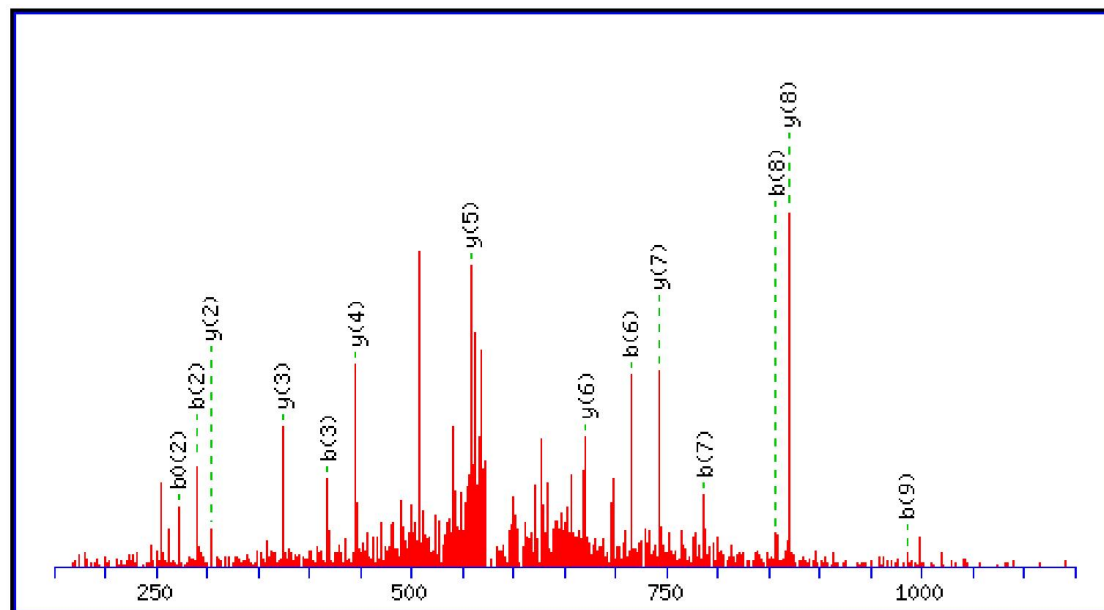
MS/MS Fragmentation of **SKQAILAAQR**Found in **060869-2**, Isoform 2 of Endothelial differentiation-related factor 1 OS=Homo sapiens GN=EDF1

Match to Query 4896: 1158.697728 from(580.356140, 2+) intensity(51590.8477)

Title: File1368 Spectrum9029 scans: 9739

Data file J:\2013-9-14-A549-Prometh-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1158.6993**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 45 **Expect:** 0.0079**Matches** : 14/88 fragment ions using 30 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S					10
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	K	1072.6746	536.8409	1055.6480	528.3277	9
3	418.2569	209.6321	401.2303	201.1188	400.2463	200.6268	Q	870.5156	435.7614	853.4890	427.2482	8
4	489.2940	245.1506	472.2675	236.6374	471.2834	236.1454	A	742.4570	371.7321	725.4305	363.2189	7
5	602.3781	301.6927	585.3515	293.1794	584.3675	292.6874	I	671.4199	336.2136	654.3933	327.7003	6
6	715.4621	358.2347	698.4356	349.7214	697.4516	349.2294	L	558.3358	279.6715	541.3093	271.1583	5
7	786.4993	393.7533	769.4727	385.2400	768.4887	384.7480	A	445.2518	223.1295	428.2252	214.6162	4
8	857.5364	429.2718	840.5098	420.7585	839.5258	420.2665	A	374.2146	187.6110	367.1881	179.0977	3
9	985.5949	493.3011	968.5684	484.7878	967.5844	484.2958	Q	303.1775	152.0924	286.1510	143.5791	2
10							R	175.1190	88.0631	158.0924	79.5498	1

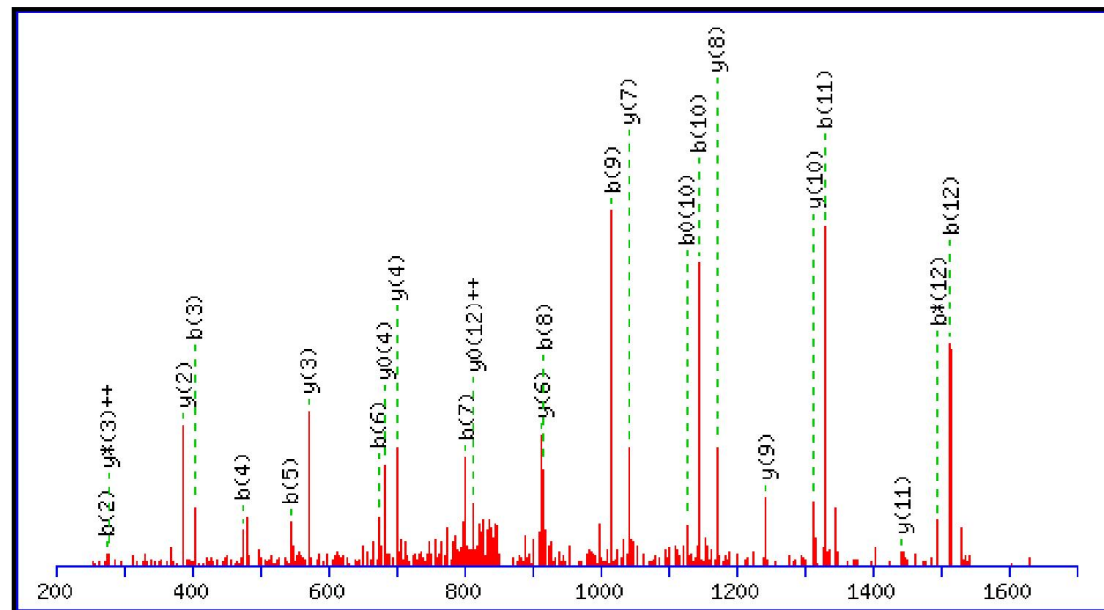
MS/MS Fragmentation of **AKEAAEQDVEKKK**Found in **J3KS98**, 60S ribosomal protein L13 (Fragment) OS=Homo sapiens GN=RPL13 PE=4 SV=1

Match to Query 10247: 1714.928688 from(858.471620, 2+) intensity(75932.7734)

Title: File1368 Spectrum10291 scans: 11054

Data file J:\2013-9-14-A549-Prometh-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1714.9261**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl-(13CD3)Methyl (K)**K11** : Propionyl (K)**K12** : Propionyl (K)**K13** : Propionyl (K)**Ions Score:** 76 **Expect:** 1.3e-005**Matches** : 25/132 fragment ions using 41 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							13
2	274.2034	137.6053	257.1769	129.0921			K	1644.8963	822.9518	1627.9698	814.4385	1626.8858	813.9465	12
3	403.2460	202.1266	386.2194	193.6134	385.2354	193.1214	E	1442.7373	721.8723	1425.7108	713.3590	1424.7268	712.8670	11
4	474.2837	237.6452	457.2566	229.1319	456.2725	228.6399	A	1313.6947	657.3510	1296.6682	648.8377	1295.6842	648.3457	10
5	545.3202	273.1638	528.2937	264.6505	527.3097	264.1585	A	1242.6576	621.8324	1225.6311	613.3192	1224.6470	612.8272	9
6	674.3628	337.6850	657.3363	329.1718	656.3523	328.6798	E	1171.6205	586.3139	1154.5939	577.8006	1153.6099	577.3086	8
7	802.4214	401.7143	785.3948	393.2011	784.4108	392.7091	Q	1042.5779	521.7926	1025.5514	513.2793	1024.5673	512.7873	7
8	917.4483	459.2278	900.4218	450.7145	899.4378	450.2225	D	914.5193	457.7633	897.4928	449.2500	896.5088	448.7580	6
9	1016.5168	508.7620	999.4902	500.2487	998.5062	499.7567	V	799.4924	400.2498	782.4658	391.7366	781.4818	391.2445	5
10	1145.5593	573.2833	1128.5328	564.7700	1127.5489	564.2780	E	700.4240	350.7156	683.3974	342.2023	682.4134	341.7103	4
11	1329.6005	665.3439	1312.6540	656.8306	1311.6700	656.3386	K	571.3814	286.1943	554.3648	277.6811			3
12	1513.8017	757.4045	1496.7752	748.8912	1495.7911	748.3992	K	387.2602	194.1337	370.2336	185.6205			2
13							K	203.1390	102.0731	186.1125	93.5599			1

Match to Query 13960: 2121.168972 from(708.063600,3+) intensity(21604.1992)

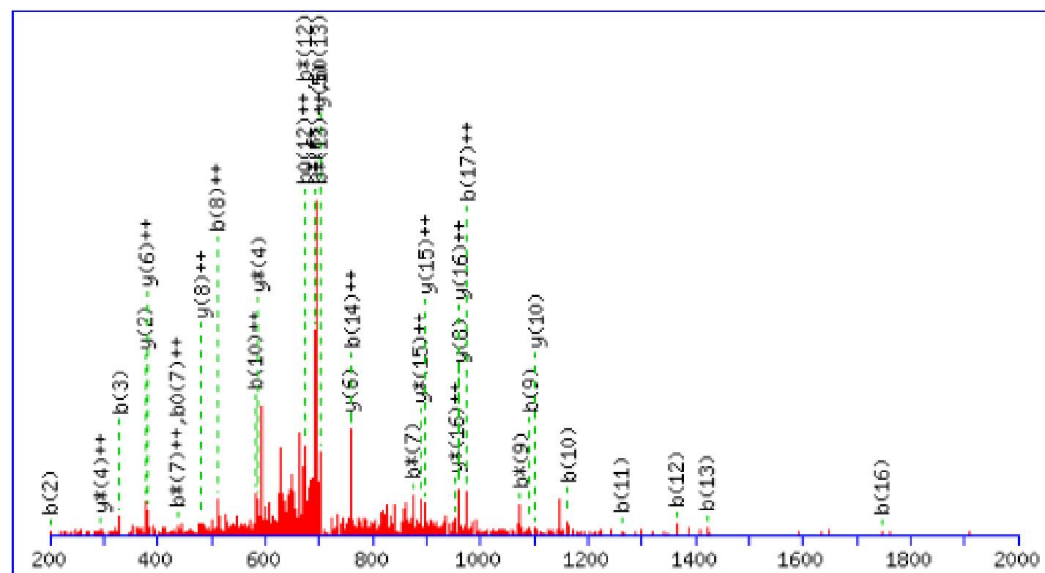
Title: File1353 Spectrum9085 scans: 9769

Data file J:\2013-9-14-A549-Prometh-Fr5-ZW.mgf

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

Or, 200 to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2121.1702

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

Variable modifications:

K6 : Propionyl (K)

K7 : Propionyl (K)

K17 : Propionyl-(13CD3)Methyl (K)

Ions Score: 22 Expect: 3.8

Matches : 34/188 fragment ions using 83 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	129.0659	65.0366	112.0393	56.5233										18
2	200.1030	100.5551	183.0764	92.0418			A	1994.1190	997.5631	1977.0924	989.0498	1976.1084	988.5578	17
3	329.1456	165.0764	312.1190	156.5631	311.1350	156.0711	E	1923.0818	902.0446	1906.0553	953.5313	1905.0713	953.0393	16
4	426.1983	213.6028	409.1718	205.0895	408.1878	204.5975	P	1794.0392	897.5233	1777.0127	889.0100	1776.0287	888.5180	15
5	523.2511	262.1292	506.2245	253.6159	505.2405	253.1239	P	1696.9865	848.9969	1679.9599	840.4836	1678.9759	839.9916	14
6	707.3723	354.1898	690.3457	345.6765	689.3617	345.1845	K	1599.9337	800.4705	1582.9072	791.9572	1581.9232	791.4652	13
7	891.4934	446.2504	874.4669	437.7371	873.4829	437.2451	K	1415.8125	708.4099	1398.7860	699.8966	1397.8020	699.4046	12
8	1020.5360	510.7717	1003.5095	502.2584	1002.5255	501.7664	E	1231.6914	616.3493	1214.6648	607.8360	1213.6808	607.3440	11
9	1091.5732	546.2902	1074.5466	537.7769	1073.5626	537.2849	A	1102.6488	551.8280	1085.6222	543.3147	1084.6382	542.8227	10
10	1162.6103	581.8088	1145.5837	573.2955	1144.5997	572.8035	A	1031.6117	516.3095	1014.5851	507.7962	1013.6011	507.3042	9
11	1263.6579	632.3326	1246.6314	623.8193	1245.6474	623.3273	T	960.5745	480.7909	943.5480	472.2776	942.5640	471.7856	8
12	1364.7056	682.8565	1347.6791	674.3482	1346.6951	673.8512	T	859.5269	430.2671	842.5003	421.7538	841.5163	421.2618	7
13	1421.7271	711.3672	1404.7005	702.8539	1403.7165	702.3619	G	758.4792	379.7432	741.4526	371.2300			6
14	1518.7799	759.8936	1501.7533	751.3803	1500.7693	750.8883	P	701.4577	351.2325	684.4312	342.7192			5
15	1646.8384	823.9229	1629.8119	815.4096	1628.8279	814.9176	Q	604.4050	302.7061	587.3784	294.1928			4
16	1745.9068	873.4571	1728.8903	864.9438	1727.8963	864.4518	V	476.3464	238.6768	459.3198	230.1656			3
17	1948.0659	974.5366	1931.0393	966.0233	1930.0553	965.5313	K	377.2780	189.1426	360.2514	180.6293			2
18							R	175.1190	88.0631	158.0924	79.5498			1

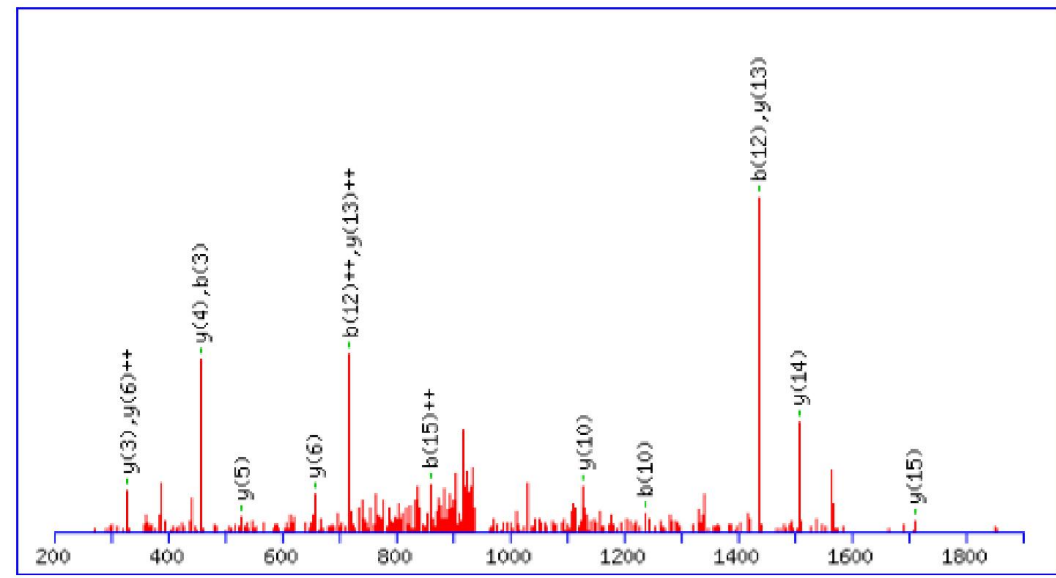
Found in **K7ELJ2**, PDZ domain-containing protein GIPC1 (Fragment) OS=Homo sapiens GN=GIPC1 PE=4 SV=1

Match to Query 11448: 1893.012428 from(947.513490,2+) intensity(12001.0371)
 Title: File1353 Spectrum10527 scans: 11271
 Data file J:\2013-9-14-A549-Prometh-Fr5-ZW.mgf

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

Or, 200 to 1900 Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1893.0116
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)
 Variable modifications:
 K1 : Propionyl (K)
 K2 : Propionyl-(13CD3)Methyl (K)
 Ions Score: 55 Expect: 0.0024
 Matches : 15/160 fragment ions using 16 most intense peaks [\(help\)](#)

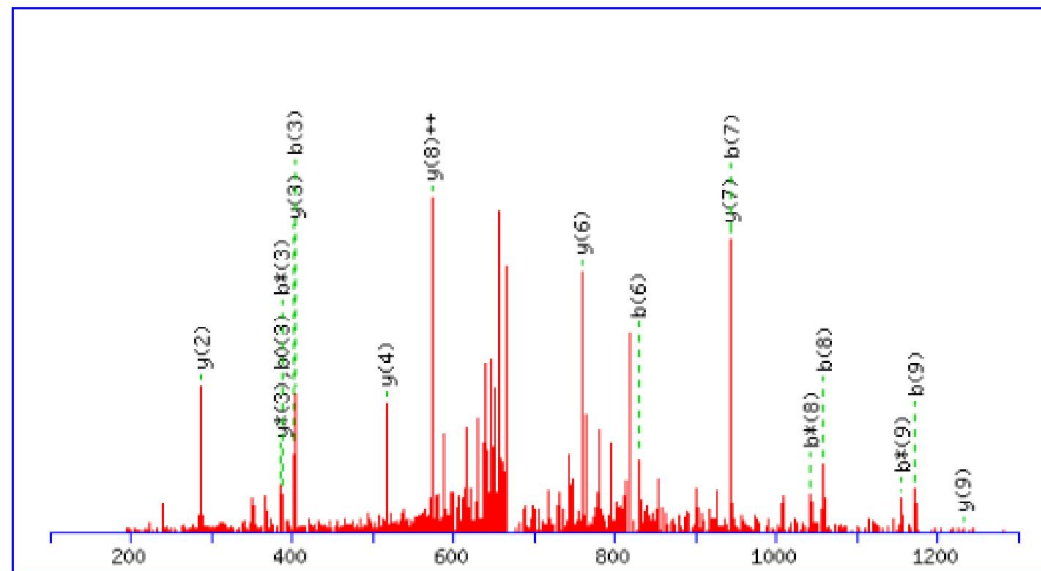
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							16
2	387.2875	194.1474	370.2609	185.6341			K	1709.8977	855.4525	1692.8712	846.9392	1691.8872	846.4472	15
3	458.3246	229.6659	441.2980	221.1527			A	1507.7387	754.3730	1490.7122	745.8597	1489.7281	745.3677	14
4	555.3773	278.1923	538.3508	269.6790			P	1436.7016	718.8544	1419.6751	710.3412	1418.6910	709.8492	13
5	652.4301	326.7187	635.4036	318.2054			P	1339.6488	670.3281	1322.6223	661.8148	1321.6383	661.3228	12
6	765.5142	383.2607	748.4876	374.7475			L	1242.5961	621.8017	1225.5695	613.2884	1224.5855	612.7964	11
7	864.5826	432.7949	847.5560	424.2817			V	1129.5120	565.2596	1112.4855	556.7464	1111.5014	556.2544	10
8	993.6252	497.3162	976.5986	488.8030	975.6146	488.3109	E	1030.4436	515.7254	1013.4170	507.2122	1012.4330	506.7202	9
9	1107.6681	554.3377	1090.6416	545.8244	1089.6575	545.3324	N	901.4010	451.2041	884.3745	442.6909	883.3904	442.1989	8
10	1236.7107	618.8590	1219.6842	610.3457	1218.7001	609.8537	E	787.3581	394.1827	770.3315	385.6694	769.3475	385.1774	7
11	1365.7533	683.3803	1348.7267	674.8670	1347.7427	674.3750	E	658.3155	329.6614	641.2889	321.1481	640.3049	320.6561	6
12	1436.7904	718.8988	1419.7639	710.3856	1418.7798	709.8936	A	529.2729	265.1401	512.2463	256.6268	511.2623	256.1348	5
13	1565.8330	783.4201	1548.8065	774.9069	1547.8224	774.4149	E	458.2358	229.6215	441.2092	221.1082	440.2252	220.6162	4
14	1662.8858	831.9465	1645.8592	823.4332	1644.8752	822.9412	P	329.1952	165.1002	312.1666	156.5870			3
15	1719.9072	860.4573	1702.8807	851.9440	1701.8967	851.4520	G	232.1404	116.5738	215.1139	108.0606			2
16							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 4699: 1345.747048 from(673.880800,2+) intensity(89151.6641)

Title: File1353 Spectrum10080 scans: 10806

Data file J:\2013-9-14-A549-Prometh-Fr5-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1345.7474

Fixed modifications: Carbamidomethyl (C) (apply to specified residue)

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

K4 : Propionyl (K)

Ions Score: 45 Expect: 0.015

Matches : 17/102 fragment ions using 22 most intense peaks

[\(help\)](#)

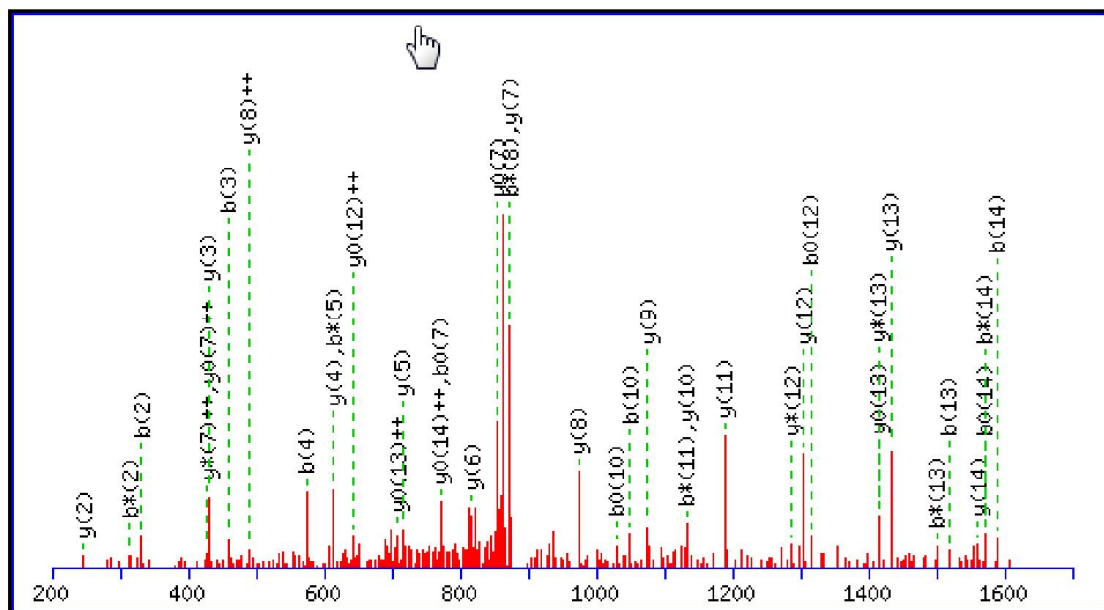
#	b^-	b^{++}	b^+	b^{*++}	b^0	b^{0++}	Seq.	y	y^{++}	y^+	y^{*++}	y^0	y^{0++}	#
1	115.0502	58.0287	98.0237	49.5155			N							10
2	202.0822	101.5448	185.0557	93.0315	184.0717	92.5395	S	1232.7118	616.8595	1215.6852	608.3462	1214.7012	607.8542	9
3	404.2412	202.6243	387.2147	194.1110	386.2307	193.6190	K	1145.6797	573.3435	1128.6532	564.8302	1127.6692	564.3382	8
4	588.3624	294.6848	571.3359	286.1716	570.3519	285.6796	K	943.5207	472.2640	926.4942	463.7507	925.5102	463.2587	7
5	717.4050	359.2061	700.3785	350.6929	699.3945	350.2009	E	759.3995	380.2034	742.3730	371.6901	741.3890	371.1981	6
6	830.4891	415.7482	813.4625	407.2349	812.4785	406.7429	L	630.3569	315.6821	613.3304	307.1688	612.3464	306.6768	5
7	944.5320	472.7696	927.5055	464.2564	926.5214	463.7644	N	517.2729	259.1401	500.2463	250.6268	499.2623	250.1348	4
8	1059.5589	530.2831	1042.5324	521.7698	1041.5484	521.2778	D	403.2300	202.1186	386.2034	193.6053	385.2194	193.1133	3
9	1172.6430	586.8251	1155.6165	578.3119	1154.6324	577.8199	I	288.2030	144.6051	271.1765	136.0919			2
10							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 9358: 1761.949428 from(881.981990, 2+) intensity(36421.2500)

Title: File1353 Spectrum4760 scans: 5262

Data file J:\2013-9-14-A549-Prometh-Fr5-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc): 1761.9494**

Fixed modifications: Carbamidomethyl (C) (apply to specified

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)**K12** : Propionyl (K)**K13** : Propionyl (K)

Ions Score: 94 Expect: 2.2e-007

Matches : 39/154 fragment ions using 56 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							15
2	331.2249	166.1161	314.1983	157.6023			Q	1550.7976	780.9025	1543.7711	772.3892	1542.7871	771.8972	14
3	459.2834	230.1454	442.2569	221.6321			Q	1432.7391	716.8732	1415.7125	708.3599	1414.7285	707.8679	13
4	574.3104	287.6583	557.2838	279.1456	556.2993	278.6535	D	1304.6805	652.8439	1287.6539	644.3306	1286.6699	643.8386	12
5	631.3319	316.1696	614.3053	307.6563	613.3213	307.1643	G	1189.6535	595.3304	1172.6270	586.8171	1171.6430	586.3251	11
6	698.3533	344.6803	671.3268	336.1670	670.3428	335.6750	G	1132.6321	566.8197	1115.6055	558.3064	1114.6215	557.8144	10
7	789.4010	395.2041	772.3744	386.6909	771.3904	386.1989	T	1075.6106	538.3089	1058.5841	529.7957	1057.6000	529.3037	9
8	890.4487	445.7280	873.4221	437.2147	872.4381	436.7227	T	974.5629	487.7851	957.5364	479.2718	956.5524	478.7798	8
9	947.4701	474.2387	930.4436	465.7254	929.4596	465.2334	G	873.5152	437.2613	856.4887	428.7480	855.5047	428.2560	7
10	1048.5178	524.7625	1031.4913	516.2493	1030.5073	515.7573	T	816.4938	408.7505	799.4672	400.2373	798.4832	399.7452	6
11	1149.5855	575.2864	1132.5389	566.7731	1131.5549	566.2811	T	715.4461	358.2267	698.4196	349.7134	697.4355	349.2214	5
12	1333.6887	667.3470	1316.6601	658.8337	1315.6761	658.3417	K	614.3984	307.7028	597.3719	299.1896			4
13	1517.8079	759.4076	1500.7813	750.8943	1499.7973	750.4023	K	430.2772	215.6423	413.2507	207.1290			3
14	1588.8450	794.9261	1571.8184	786.4128	1570.8344	785.9208	A	246.1561	123.5817	229.1295	115.0684			2
15							R	175.1190	88.0631	158.0924	79.5498			1

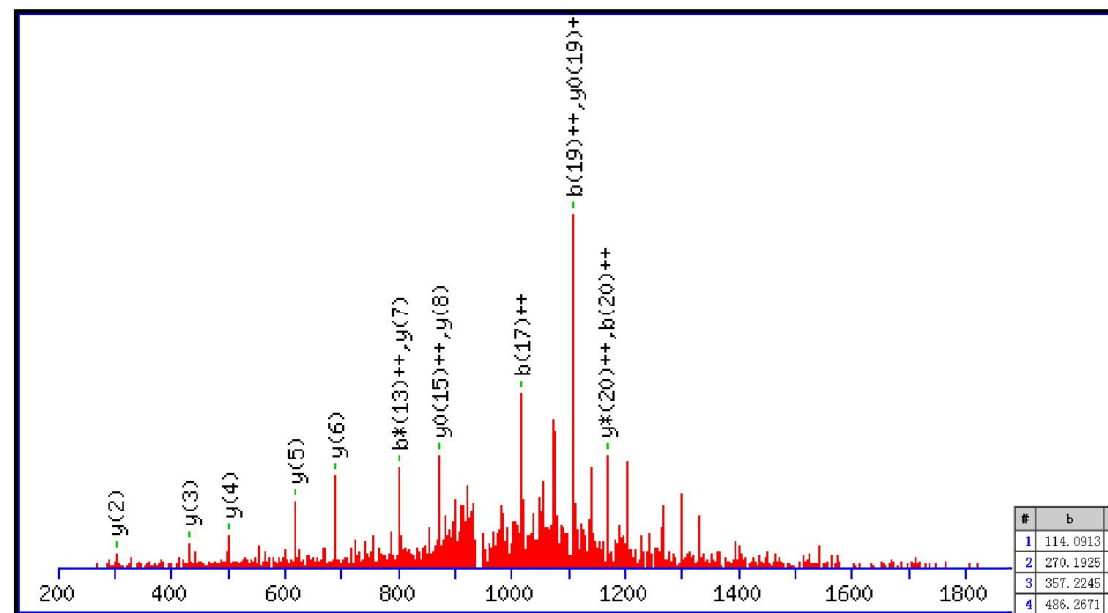
Found in Q14CN4-2, Isoform 2 of Keratin, type II cytoskeletal 72 OS=Homo sapiens GN=KRT72

Match to Query 18662: 2834.477382 from(945.833070, 3+) intensity(45862.6523)

Title: File1356 Spectrum18364 scans: 19493

Data file J:\2013-9-14-A549-Prometh-Fr3-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide $M_r(\text{calc})$:** 2834.4989**Fixed modifications:** Carbamidomethyl (C) (apply to specified residue)**Variable modifications:****K9** : Propionyl-(13CD3)Methyl (K)**K10** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 32 **Expect:** 0.56**Matches** : 14/266 fragment ions using 18 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺ +	b ⁰	b ⁰ +	Seq.	y	y ⁺⁺	y ⁺	y ⁺ +	y ⁰	y ⁰ +	#
1	114.0913	57.5493					I							24
2	270.1925	138.5999	253.1659	127.0866			R	2722.4221	1361.7147	2705.3956	1353.2014	2704.4116	1352.7094	23
3	357.2245	179.1159	340.1979	170.6026	339.2139	170.1106	S	2566.3210	1283.6642	2549.2945	1275.1509	2548.3105	1274.6589	22
4	488.2671	243.6372	469.2405	235.1239	468.2865	234.6319	K	2479.2890	1240.1481	2462.2625	1231.6349	2461.2784	1231.1429	21
5	599.3511	300.1792	582.3246	291.6659	581.3405	291.1739	I	2350.2464	1175.6268	2333.2199	1167.1136	2332.2358	1166.6216	20
6	656.3726	328.6899	639.3461	320.1767	638.3620	319.6847	G	2237.1623	1119.0848	2220.1358	1110.5715	2219.1518	1110.0795	19
7	770.4155	385.7114	753.3890	377.1981	752.4050	376.7061	N	2180.1409	1090.5741	2163.1143	1082.0608	2162.1303	1081.5688	18
8	869.4839	435.2456	852.4574	426.7323	851.4734	426.2403	V	2066.0980	1033.5526	2049.0714	1025.0393	2048.0874	1024.5473	17
9	1071.6430	536.3251	1054.6164	527.8118	1053.6324	527.3198	K	1967.0295	984.0184	1950.0030	975.5051	1949.0190	975.0131	16
10	1273.8020	637.4046	1256.7754	628.8913	1255.7914	628.3993	K	1764.8705	882.9389	1747.8440	874.4256	1746.8600	873.9336	15
11	1433.8326	717.4199	1416.8061	708.9067	1415.8221	708.4147	C	1562.7115	781.8594	1545.6850	773.3461	1544.7009	772.8541	14
12	1504.8697	752.9385	1487.8432	744.4252	1486.8592	743.9332	A	1402.6809	701.8441	1385.6543	693.3308	1384.6703	692.8388	13
13	1619.8967	810.4520	1602.8701	801.9387	1601.8861	801.4467	D	1331.6438	666.3255	1314.6172	657.8122	1313.6332	657.3202	12
14	1732.9807	866.9940	1715.9542	858.4807	1714.9702	857.9887	L	1216.6168	608.8120	1199.5903	600.2988	1198.6062	599.8068	11
15	1862.0233	931.5153	1844.9968	923.0020	1844.0128	922.5100	E	1103.5327	552.2700	1086.5062	543.7567	1085.5222	543.2647	10
16	1963.0710	982.0391	1946.0445	973.5259	1945.0604	973.0339	T	974.4902	487.7487	957.4636	479.2354	956.4796	478.7434	9
17	2034.1081	1017.5677	2017.0816	1009.0444	2016.0976	1008.5524	A	873.4425	437.2249	856.4159	428.7116	855.4319	428.2196	8
18	2147.1922	1074.0397	2130.1656	1065.5865	2129.1816	1065.0944	I	802.4054	407.7063	785.3768	393.1930	784.3948	392.7010	7
19	2218.2293	1109.6183	2201.2028	1101.1050	2200.2187	1100.6130	A	689.3213	345.1643	672.2947	336.6510	671.3107	336.1590	6
20	2333.2562	1167.1318	2316.2297	1158.6185	2315.2457	1158.1265	D	618.2842	309.6457	601.2576	301.1325	600.2736	300.6404	5
21	2404.2934	1202.6503	2387.2668	1194.1370	2386.2828	1193.6450	A	503.2572	252.1323	486.2307	243.6190	485.2467	243.1270	4
22	2533.3360	1267.1716	2516.3094	1258.6583	2515.3254	1258.1663	E	432.2201	216.6137	415.1936	208.1004	414.2096	207.6084	3
23	2661.3945	1331.2009	2644.3680	1322.6876	2643.3840	1322.1956	Q	303.1775	152.0924	286.1510	143.5791			2
24							R	175.1190	88.0631	158.0924	79.5498			1

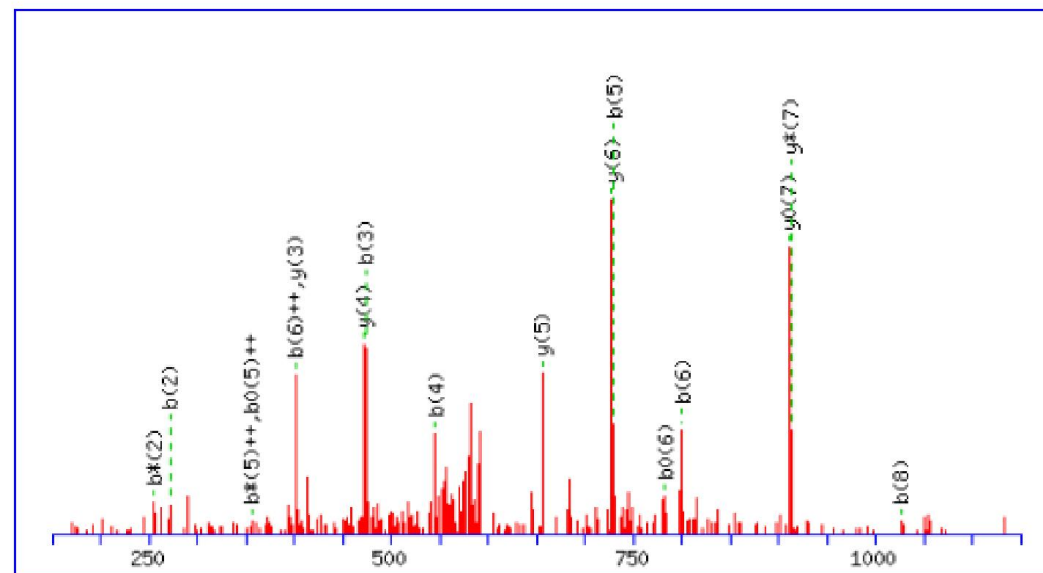
Found in **Q6ZRS2**, Helicase SRCAP OS=Homo sapiens GN=SRCAP PE=1 SV=3

Match to Query 4492: 1199.714448 from(600.864500,2+) intensity(23520.7617)

Title: File1356 Spectrum6144 scans: 6722

Data file J:\2013-9-14-A549-Prometh-Fr3-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1199.7146

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

Variable modifications:

K2 : Propionyl (K)

K3 : Propionyl-(13CD3)Methyl (K)

K5 : Propionyl (K)

Ions Score: 35 Expect: 0.09

Matches : 17/92 fragment ions using 29 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							9
2	272.1605	136.5839	255.1339	128.0706	254.1499	127.5786	K	1113.6899	537.3486	1096.6634	548.8353	1095.6793	548.3433	8
3	474.3195	237.6634	457.2929	229.1501	456.3089	228.6581	K	929.5687	465.2880	912.5422	456.7747	911.5582	456.2827	7
4	545.3566	273.1819	528.3301	264.6687	527.3460	264.1767	A	727.4097	364.2085	710.3832	355.6952	709.3991	355.2032	6
5	729.4778	365.2425	712.4512	356.7293	711.4672	356.2372	K	656.3726	328.6899	639.3461	320.1767	638.3620	319.6847	5
6	800.5149	400.7611	783.4884	392.2478	782.5043	391.7558	A	472.2514	236.6293	455.2249	228.1161	454.2409	227.6241	4
7	897.5677	449.2875	880.5411	440.7742	879.5571	440.2822	P	401.2143	201.1108	384.1878	192.5975	383.2037	192.1055	3
8	1026.6103	513.8088	1009.5837	505.2955	1008.5997	504.8035	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
9							R	175.1190	88.0631	158.0924	79.5498			1

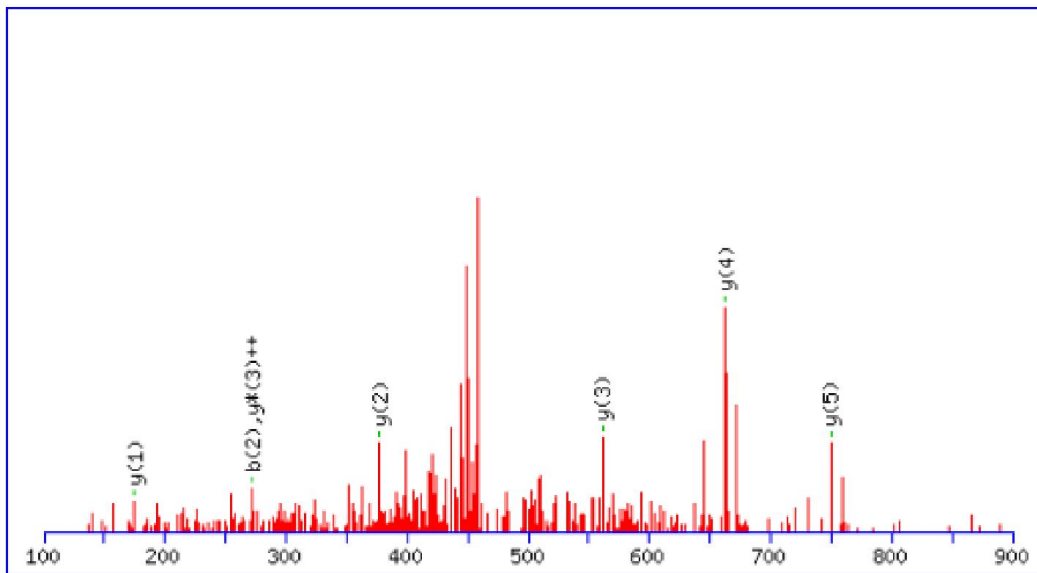
Found in **G5E9G6**, E3 ubiquitin-protein ligase TRIP12 OS=Homo sapiens GN=TRIP12 PE=2 SV=1

Match to Query 1792: 932.591648 from(467.303100,2+) intensity(6766.3755)

Title: File1356 Spectrum4556 scans: 5066

Data file J:\2013-9-14-A549-Prometh-Fr3-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 932.5927

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

Variable modifications:

K1 : Propionyl (K)

K4 : Propionyl (K)

K5 : Propionyl-(13CD3)Methyl (K)

Ions Score: 43 Expect: 0.0083

Matches : 7/52 fragment ions using 8 most intense peaks ([help](#))

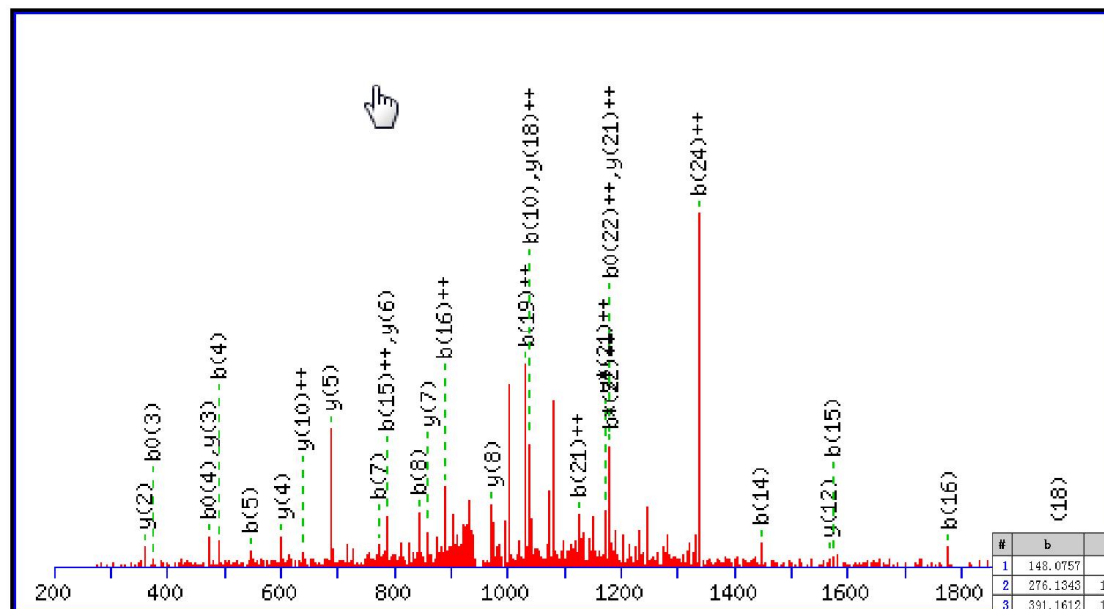
#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							6
2	272.1605	136.5839	255.1339	128.0706	254.1499	127.5786	S	749.4789	375.2431	732.4523	366.7298	731.4683	366.2378	5
3	373.2082	187.1077	356.1816	178.5944	355.1976	178.1024	T	662.4468	331.7270	645.4203	323.2138	644.4363	322.7218	4
4	557.3293	279.1683	540.3028	270.6550	539.3188	270.1630	K	561.3991	281.2032	544.3726	272.6899			3
5	759.4884	380.2478	742.4618	371.7345	741.4778	371.2425	K	377.2780	189.1426	360.2514	180.6293			2
6							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 18714: 2847.508092 from(950.176640, 3+) intensity(58247.6367)

Title: File1356 Spectrum16044 scans: 17045

Data file J:\2013-9-14-A549-Prometh-Fr3-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 2847.5040****Fixed modifications:** Carbamidomethyl (C) (apply to specified residue)**Variable modifications:****K16** : Propionyl-(13CD3)Methyl (K)**K24** : Propionyl (K)**Ions Score:** 45 **Expect:** 0.025**Matches** : 30/276 fragment ions using 51 most intense peaks ([help](#))

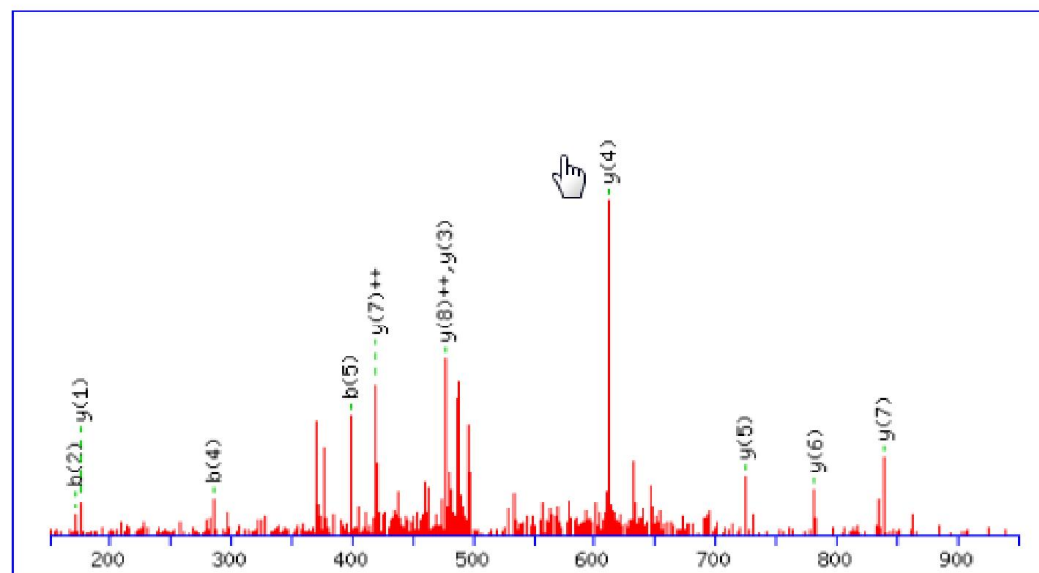
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	148.0757	74.5415					F							25
2	276.1343	138.5708	259.1077	130.0575			Q	2701.4428	1351.2250	2634.4163	1342.7118	2633.4322	1342.2198	24
3	391.1612	196.0842	374.1347	187.5710	373.1506	187.0790	D	2573.3842	1287.1958	2556.3577	1278.6825	2555.3737	1278.1905	23
4	490.2296	245.6185	473.2031	237.1052	472.2191	236.6132	V	2458.3573	1229.6823	2441.3307	1221.1690	2440.3467	1220.6770	22
5	547.2511	274.1293	530.2245	265.6159	529.2405	265.1239	G	2359.2889	1180.1481	2342.2623	1171.6348	2341.2783	1171.1428	21
6	644.3039	322.6556	627.2773	314.1423	626.2933	313.6503	P	2302.2674	1151.6373	2285.2409	1143.1241	2284.2568	1142.6321	20
7	772.3624	386.6849	755.3359	378.1716	754.3519	377.6796	Q	2205.2146	1103.1110	2188.1381	1094.5977	2187.2041	1094.1057	19
8	843.3995	422.2034	826.3730	413.6901	825.3890	413.1981	A	2077.1561	1039.0817	2060.1295	1030.5634	2059.1455	1030.0764	18
9	940.4523	470.7298	923.4258	462.2165	922.4417	461.7245	P	2006.1190	1003.5631	1989.0924	995.0498	1988.1034	994.5578	17
10	1039.5207	520.2640	1022.4942	511.7507	1021.5102	511.2587	V	1909.0662	955.0367	1892.0396	946.5235	1891.0556	946.0315	16
11	1096.5422	548.7747	1079.5156	540.2615	1078.5316	539.7694	C	1809.9972	905.5025	1792.9712	896.9893	1791.9872	896.4972	15
12	1183.6742	592.2907	1166.5477	583.7775	1165.5637	583.2855	S	1752.9763	876.9948	1735.9498	868.4785	1734.9657	867.9865	14
13	1282.6426	641.8250	1265.6161	633.3117	1264.6321	632.8197	V	1665.9443	833.4758	1648.9177	824.9625	1647.9337	824.4705	13
14	1445.7060	723.3566	1428.6794	714.8433	1427.6954	714.3513	Y	1566.8759	783.9416	1549.8493	775.4283	1548.8653	774.9363	12
15	1573.7645	787.3859	1556.7380	778.8726	1555.7540	778.3806	Q	1403.8125	702.4099	1386.7850	693.8966	1385.8020	693.4046	11
16	1775.9235	888.4654	1758.8970	879.9521	1757.9130	879.4601	K	1275.7540	638.3806	1258.7274	629.8673	1257.7434	629.3753	10
17	1876.9712	938.9893	1859.9447	930.4760	1858.9607	929.9840	T	1073.5949	537.3011	1056.5634	528.7878	1055.5844	528.2958	9
18	1991.0142	996.0107	1973.9876	987.4974	1973.0036	987.0054	N	972.5473	486.7773	955.5207	478.2640	954.5367	477.7720	8
19	2062.0513	1031.5293	2045.0247	1023.0160	2044.0407	1022.5240	A	858.5043	429.7558	841.4778	421.2425	840.4938	420.7505	7
20	2161.1197	1081.0635	2144.0931	1072.5502	2143.1091	1072.0582	V	787.4672	394.2373	770.4407	385.7240	769.4567	385.2320	6
21	2248.1517	1124.5795	2231.1252	1116.0662	2230.1411	1115.5742	S	668.3968	344.7030	671.3723	336.1898	670.3883	335.6978	5
22	2377.1943	1189.1008	2360.1678	1180.5875	2359.1837	1180.0955	E	601.3668	301.1870	584.3402	292.6738	583.3562	292.1817	4
23	2490.2784	1245.6428	2473.2518	1237.1295	2472.2678	1236.6375	I	472.3242	236.6657	455.2976	228.1525			3
24	2674.3995	1337.7034	2657.3730	1329.1901	2656.3890	1328.6981	K	359.2401	180.1237	342.2136	171.6104			2
25							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 2535: 1007.633648 from(504.824100,2+) intensity(17939.4902)

Title: File1356 Spectrum12225 scans: 13066

Data file J:\2013-9-14-A549-Prometh-Fr3-ZW.mgf

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

Or, 150 to 950 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1007.6343

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

Variable modifications:

M6 : Label:13C(1)2H(3) (M)

K8 : Propionyl-(13CD3)Methyl (K)

Ions Score: 45 Expect: 0.0056

Matches : 11/50 fragment ions using 16 most intense peaks ([help](#))

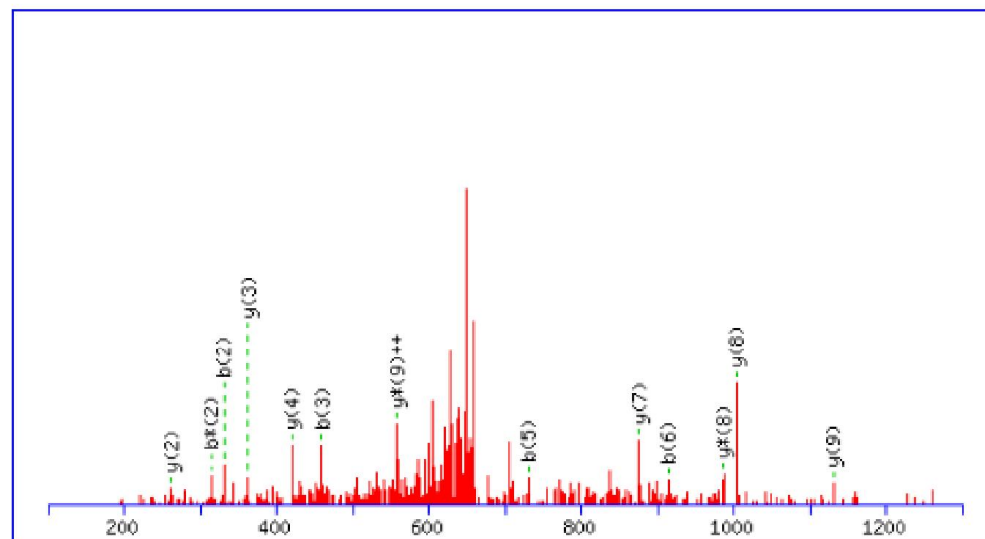
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	#
1	58.0287	29.5180			G					9
2	171.1128	86.0600			L	951.6201	476.3137	934.5936	467.8004	8
3	228.1343	114.5708			G	838.5360	419.7717	821.5095	411.2584	7
4	285.1557	143.0815			G	781.5146	391.2609	764.4880	382.7477	6
5	398.2398	199.6235			I	724.4931	362.7502	707.4666	354.2369	5
6	533.3025	267.1549			M	611.4090	306.2082	594.3825	297.6949	4
7	632.3709	316.6891			V	476.3464	238.6768	459.3198	230.1636	3
8	834.5299	417.7686	817.5033	409.2553	K	377.2780	189.1426	360.2514	180.6293	2
9					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 6287: 1332.763288 from(667.388920,2+) intensity(11596.7998)

Title: File1338 Spectrum4165 scans: 4664

Data file I:\2013-9-14-A549-Prometh-Fr2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1332.7634

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

K5 : Propionyl (K)

K6 : Propionyl (K)

Ions Score: 26 Expect: 0.97

Matches : 13/100 fragment ions using 33 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							10
2	331.2249	166.1161	314.1983	157.6028			Q	1131.6117	566.3095	1114.5851	557.7962	1113.6011	557.3042	9
3	459.2834	230.1454	442.2569	221.6321			Q	1003.5531	502.2802	986.5265	493.7609	985.5425	493.2749	8
4	546.3155	273.6614	529.2889	265.1481	528.3049	264.6561	S	875.4945	438.2509	858.4680	429.7376	857.4839	429.2456	7
5	730.4367	365.7220	713.4101	357.2087	712.4261	356.7167	K	788.4625	394.7349	771.4359	386.2216	770.4519	385.7296	6
6	914.5578	457.7826	897.5313	449.2693	896.5473	448.7773	K	604.3413	302.6743	587.3148	294.1610	586.3307	293.6690	5
7	971.5793	486.2933	954.5527	477.7800	953.5687	477.2880	G	420.2201	210.6137	403.1936	202.1004	402.2096	201.6084	4
8	1072.6270	536.8171	1055.6004	528.3038	1054.6164	527.8118	T	363.1987	182.1030	346.1721	173.5897	345.1881	173.0977	3
9	1159.6590	580.3331	1142.6325	571.8199	1141.6484	571.3279	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
10							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **YEGHPAEGTKSKWGMIPR**

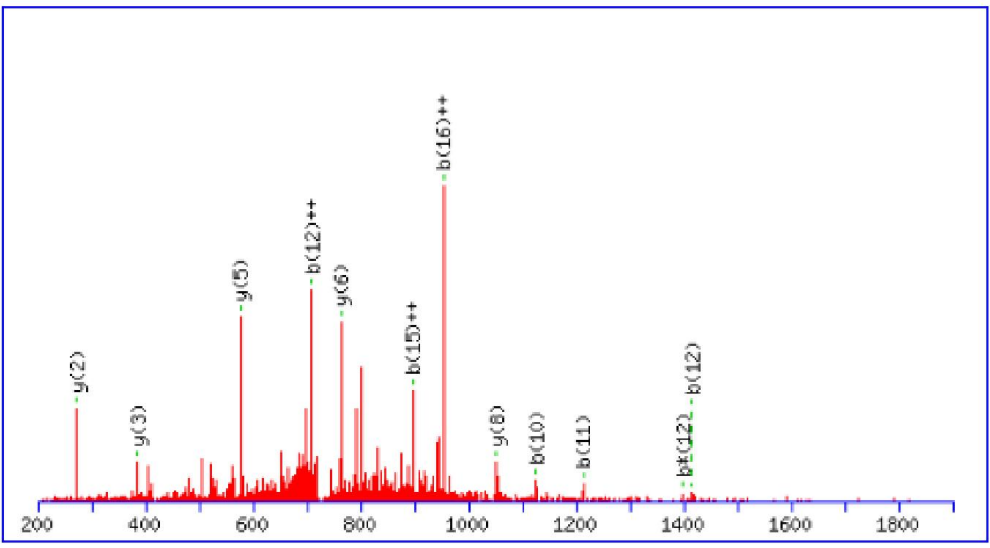
Found in **H0YIQ2**, YLP motif-containing protein 1 (Fragment) OS=Homo sapiens GN=YLPM1 PE=2 SV=1

Match to Query 15394: 2177.112822 from(726.711550,3+) intensity(88199.8828)
Title: File1338 Spectrum14403 scans: 15372
Data file I:\2013-9-14-A549-Prometh-Fr2-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc) : 2177.1121

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

Variable modifications:

- K10 : Propionyl (K)
- K12 : Propionyl-(13CD3)Methyl (K)
- M15 : Label:13C(1)2H(3) (M)

Ions Score: 26 Expect: 1.7

Matches : 12/170 fragment ions using 17 most intense peaks [\(help\)](#)

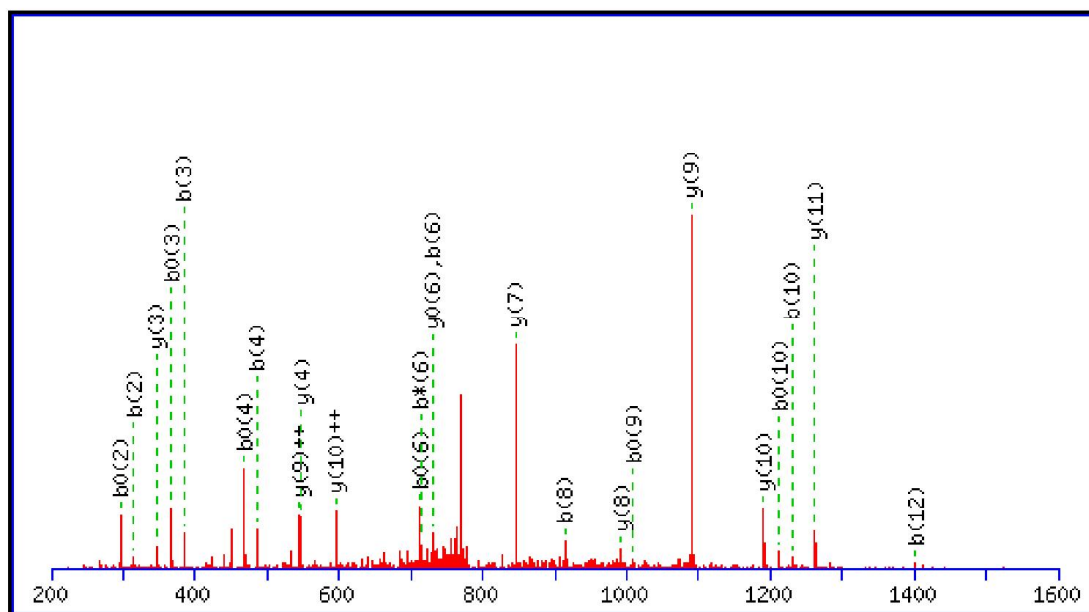
#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	164.0706	82.5389					Y							18
2	293.1132	147.0602			275.1026	138.0550	E	2015.0560	1008.0317	1998.0295	999.5184	1997.0455	999.0264	17
3	350.1347	175.5710			332.1241	166.5657	G	1886.0134	943.5104	1868.9869	934.9971	1868.0029	934.5051	16
4	487.1936	244.1004			469.1830	235.0951	H	1828.9920	914.9996	1811.9654	906.4863	1810.9814	905.9943	15
5	584.2463	292.6268			566.2358	283.6215	P	1691.9331	846.4702	1674.9065	837.9569	1673.9225	837.4649	14
6	655.2835	328.1454			637.2729	319.1401	A	1594.8803	797.9438	1577.8537	789.4305	1576.8697	788.9385	13
7	784.3260	392.6667			766.3155	383.6614	E	1523.8432	762.4252	1506.8166	753.9120	1505.8326	753.4199	12
8	841.3475	421.1774			823.3369	412.1721	G	1394.8006	697.9039	1377.7740	689.3907	1376.7900	688.8987	11
9	942.3952	471.7012			924.3846	462.6959	I	1337.7791	669.3932	1320.7526	660.8799	1319.7686	660.3879	10
10	1126.5164	563.7618	1109.4898	555.2485	1108.5058	554.7565	K	1236.7314	618.8694	1219.7049	610.3561	1218.7209	609.8641	9
11	1213.5484	607.2778	1196.5218	598.7646	1195.5378	598.2726	S	1052.6193	526.8088	1035.5837	518.2955	1034.5997	517.8035	8
12	1415.7074	708.3573	1398.6809	699.8441	1397.6968	699.3521	K	965.5782	483.2928	948.5517	474.7795			7
13	1601.7867	801.3970	1584.7602	792.8837	1583.7762	792.3917	W	763.4192	382.2133	746.3927	373.7000			6
14	1658.8082	829.9077	1641.7816	821.3945	1640.7976	820.9024	G	577.3399	289.1736	560.3134	280.6603			5
15	1793.8709	897.4391	1776.8443	888.9258	1775.8603	888.4338	M	520.3184	260.6629	503.2919	252.1496			4
16	1906.9549	953.9811	1889.9284	945.4678	1888.9444	944.9758	I	385.2558	193.1315	368.2292	184.6183			3
17	2004.0077	1002.5075	1986.9811	993.9942	1985.9971	993.5022	P	272.1717	136.5895	255.1452	128.0762			2
18							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 8467: 1573.879728 from(787.947140,2+) intensity(352652.6250)

Title: File1338 Spectrum13723 scans: 14664

Data file I:\2013-9-14-A549-Prometh-Fr2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1573.8737

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

Variable modifications:

K2 : Propionyl (K)

K10 : Propionyl-(13CD3)Methyl (K)

Ions Score: 45 Expect: 0.016

Matches : 24/132 fragment ions using 40 most intense peaks ([help](#))

#	b	b ⁺	b [*]	b ⁺⁺	b ⁰	b ⁰⁺	Seq.	y	y ⁺	y [*]	y ⁺⁺	y ⁰	y ⁰⁺	#
1	130.0499	65.5286			112.0393	56.5233	E							13
2	314.1710	157.5892	297.1445	149.0759	296.1605	148.5839	K	1445.8384	723.4228	1428.8118	714.9095	1427.8278	714.4175	12
3	385.2082	193.1077	368.1816	184.5944	367.1976	184.1024	A	1261.7172	631.3622	1244.6906	622.8490	1243.7066	622.3569	11
4	486.2558	243.6316	469.2293	235.1183	468.2453	234.6263	T	1190.6801	595.8437	1173.6535	587.3304	1172.6695	586.8384	10
5	583.3086	292.1579	566.2821	283.6447	565.2980	283.1527	P	1089.6324	545.3198	1072.6058	536.8066	1071.6218	536.3146	9
6	730.3770	365.6921	713.3505	357.1789	712.3665	356.6869	F	992.5796	496.7935	975.5531	488.2802	974.5691	487.7882	8
7	827.4298	414.2185	810.4032	405.7053	809.4192	405.2132	P	845.5112	423.2592	828.4847	414.7460	827.5006	414.2540	7
8	914.4618	457.7345	897.4353	449.2213	896.4512	448.7293	S	748.4584	374.7329	731.4319	366.2196	730.4479	365.7276	6
9	1027.5459	514.2766	1010.5493	505.7633	1009.5353	505.2713	L	661.4264	331.2168	644.3999	322.7036			5
10	1229.7049	615.3561	1212.6783	606.8428	1211.6943	606.3508	K	548.3424	274.6748	531.3158	266.1615			4
11	1286.7264	643.8668	1269.6998	635.3535	1268.7158	634.8615	G	346.1833	173.5953	329.1568	165.0820			3
12	1400.7693	700.8883	1383.7427	692.3750	1382.7587	691.8830	N	289.1619	145.0846	272.1353	136.5713			2
13							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 5103: 1206.723368 from(604.368960,2+) intensity(61857.8594)

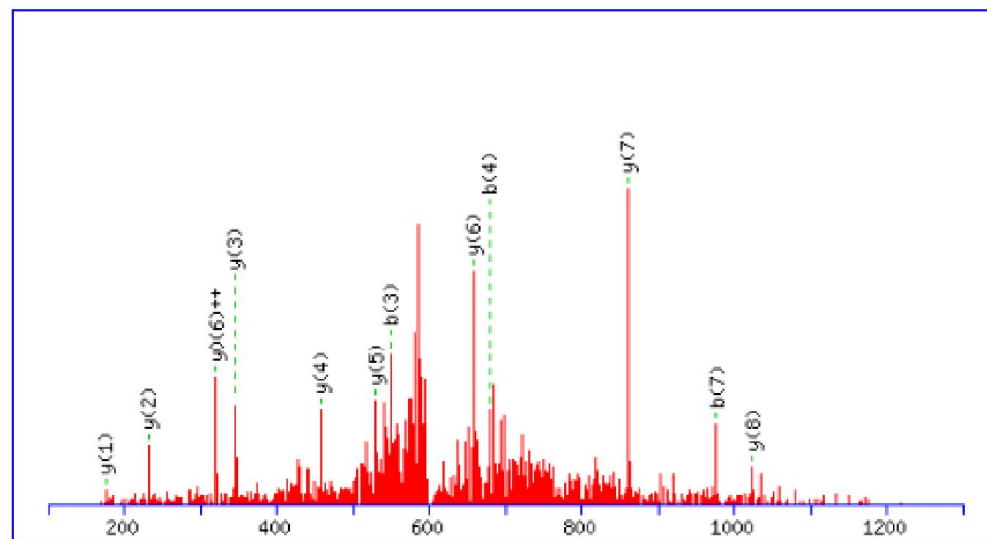
Title: File1338 Spectrum13208 scans: 14127

Data file I:\2013-9-14-A549-Prometh-Fr2-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1206.7245

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

Variable modifications:

K1 : Propionyl (K)

K3 : Propionyl-(13CD3)Methyl (K)

Ions Score: 58 Expect: 0.00039

Matches : 12/80 fragment ions using 22 most intense peaks

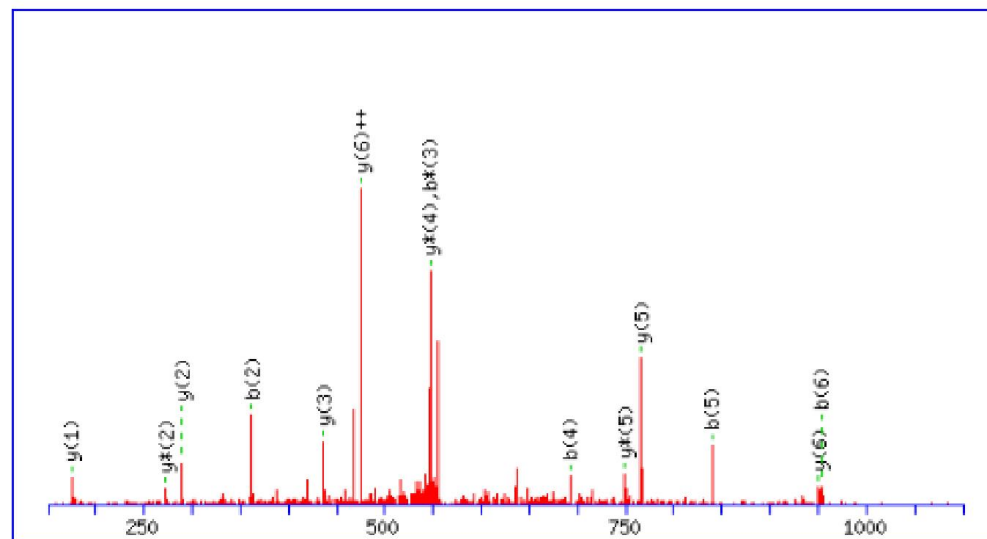
#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							9
2	348.1918	174.5995	331.1652	166.0863			Y	1023.6106	512.3089	1006.5840	503.7957	1005.6000	503.3037	8
3	550.3508	275.6790	533.3242	267.1658			K	860.5473	430.7773	843.5207	422.2640	842.5367	421.7720	7
4	679.3934	340.2003	662.3668	331.6871	661.3828	331.1951	E	658.3883	329.6978	641.3617	321.1845	640.3777	320.6925	6
5	750.4305	375.7189	733.4040	367.2056	732.4199	366.7136	A	529.3457	265.1765	512.3191	256.6632			5
6	863.5146	432.2609	846.4880	423.7476	845.5040	423.2556	L	458.3085	229.6579	441.2820	221.1446			4
7	976.5986	488.8030	959.5721	480.2897	958.5881	479.7977	L	345.2245	173.1159	328.1979	164.6026			3
8	1033.6201	517.3137	1016.5935	508.8004	1015.6095	508.3084	G	232.1404	116.5738	215.1139	108.0606			2
9							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 2674: 1126.636088 from(564.325320,2+) intensity(80633.6953)

Title: File1365 Spectrum12136 scans: 12888

Data file J:\2013-9-14-A549-Prometh-Fr17-ZW.mgf

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

Or, 150 to 1100 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1126.6350

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

Variable modifications:

N-term : Acetyl (Protein N-term)

M1 : Label:13C(1)2H(3) (M)

K2 : Propionyl (K)

K3 : Propionyl-(13CD3)Methyl (K)

Ions Score: 29 Expect: 0.43

Matches : 14/46 fragment ions using 20 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	#
1	178.0805	89.5439			M					7
2	362.2017	181.6045	345.1751	173.0912	K	950.5691	475.7882	933.5425	467.2749	6
3	564.3607	282.6840	547.3342	274.1707	K	766.4479	383.7276	749.4213	375.2143	5
4	692.4193	346.7133	675.3927	338.2000	Q	564.2889	282.6481	547.2623	274.1348	4
5	839.4877	420.2475	822.4611	411.7342	F	436.2303	218.6188	419.2037	210.1055	3
6	953.5306	477.2689	936.5041	468.7557	N	289.1619	145.0846	272.1353	136.5713	2
7					R	175.1190	88.0631	158.0924	79.5498	1

MS/MS Fragmentation of **KRPYEENR**

Found in **M0QYI8**, Heterogeneous nuclear ribonucleoprotein U-like protein 1 (Fragment) OS=Homo sapiens GN=HNRNPUL1 PE=4 SV=1

Match to Query 2935: 1164.618042 from(389.213290,3+) intensity(27002.0938)

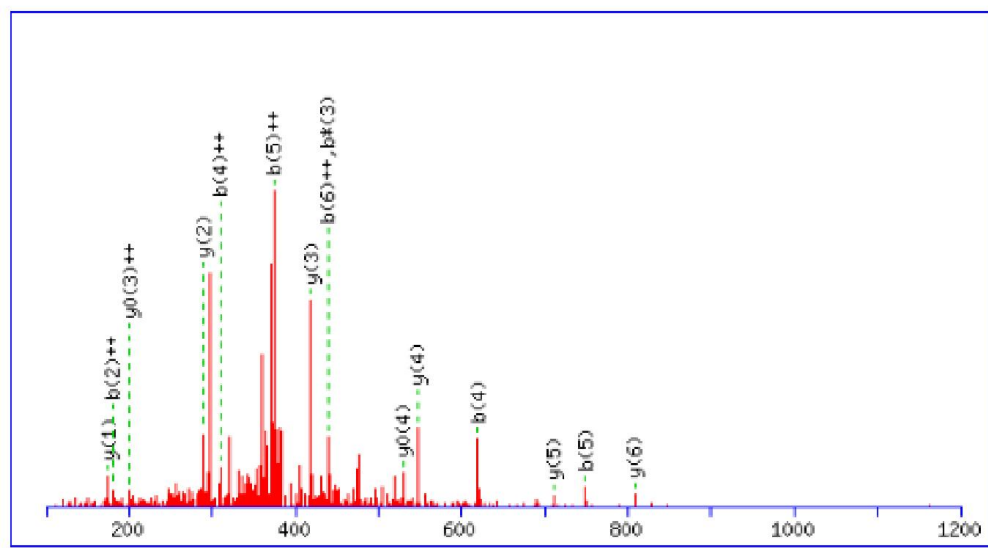
Title: File1365 Spectrum3202 scans: 3557

Data file J:\2013-9-14-A549-Prometh-Fr17-ZW.mgf

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

Or, 100 to 1200 Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1164.6160

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 35 Expect: 0.11

Matches : 15/72 fragment ions using 24 most intense peaks ([help](#))

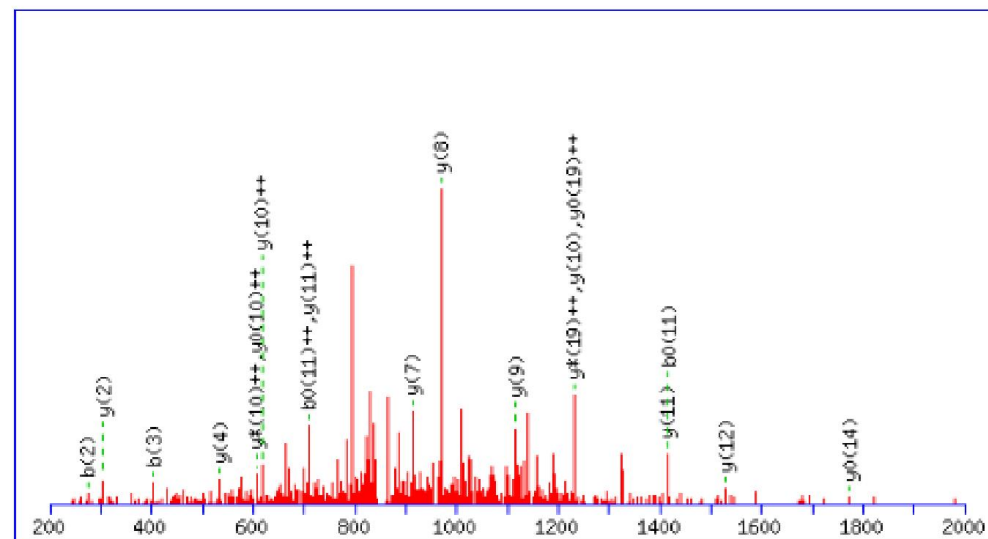
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							8
2	359.2674	180.1373	342.2409	171.6241			R	963.4643	482.2358	946.4377	473.7225	945.4537	473.2305	7
3	456.3202	228.6637	439.2936	220.1504			P	807.3632	404.1852	790.3366	395.6719	789.3526	395.1799	6
4	619.3835	310.1954	602.3569	301.6821			Y	710.3104	355.6588	693.2838	347.1456	692.2998	346.6536	5
5	748.4261	374.7167	731.3995	366.2034	730.4155	365.7114	E	547.2471	274.1272	530.2205	265.6139	529.2365	265.1219	4
6	877.4687	439.2380	860.4421	430.7247	859.4581	430.2327	E	418.2045	209.6059	401.1779	201.0926	400.1939	200.6006	3
7	991.5116	496.2594	974.4851	487.7462	973.5010	487.2542	N	289.1619	145.0846	272.1353	136.5713			2
8							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 14519: 2550.190572 from(851.070800,3+) intensity(26727.1250)

Title: File1365 Spectrum17380 scans: 18356

Data file J:\2013-9-14-A549-Prometh-Fr17-ZW.mgf

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

Or, 200 to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 2550.2130

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K10 : Propionyl (K)

M16 : Label:13C(1)2H(3) (M)

Ions Score: 30 Expect: 0.28

Matches : 19/220 fragment ions using 33 most intense peaks ([help](#))

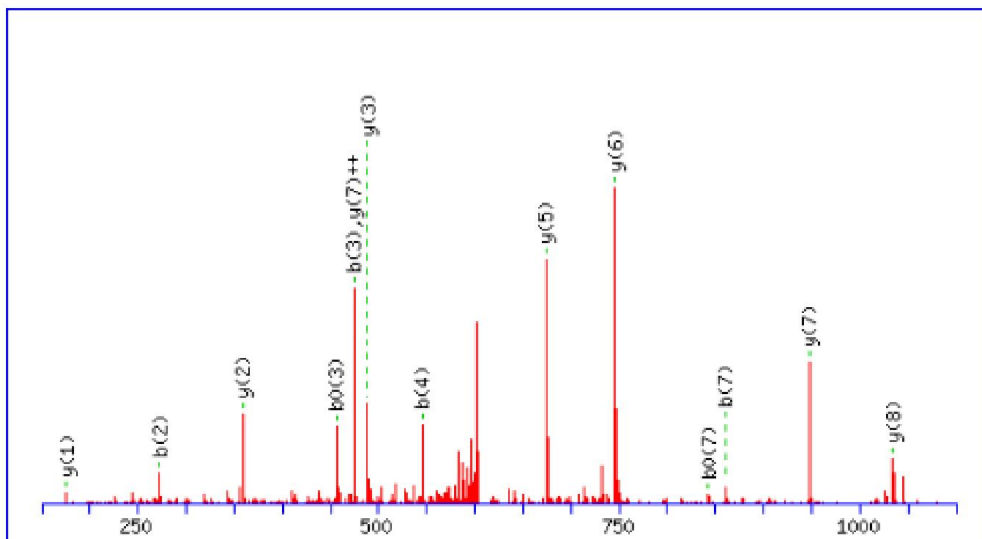
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							20
2	274.2034	137.6053	257.1769	129.0921			K	2480.1831	1240.5952	2463.1566	1232.0819	2462.1726	1231.5899	19
3	403.2460	202.1266	386.2194	193.6134	385.2354	193.1214	E	2278.0241	1139.5157	2260.9976	1131.0024	2260.0136	1130.5104	18
4	550.3144	275.6608	533.2879	267.1476	532.3038	266.6556	F	2148.9815	1074.9944	2131.9550	1066.4811	2130.9710	1065.9891	17
5	647.3672	324.1872	630.3406	315.6740	629.3566	315.1819	P	2001.9131	1001.4602	1984.8866	992.9469	1983.9026	992.4540	16
6	761.4101	381.2087	744.3836	372.6954	743.3995	372.2034	N	1904.8604	952.9338	1887.8338	944.4205	1886.8498	943.9285	15
7	860.4785	430.7429	843.4520	422.2296	842.4679	421.7376	Y	1790.8174	895.9124	1773.7909	887.3991	1772.8069	886.9071	14
8	1023.5418	512.2746	1006.5153	503.7613	1005.5313	503.2693	Y	1691.7490	846.3781	1674.7225	837.8649	1673.7384	837.3729	13
9	1136.6259	568.8166	1119.5994	560.3033	1118.6133	559.8113	I	1528.6857	764.8465	1511.6591	756.3332	1510.6751	755.8412	12
10	1320.7471	660.8772	1303.7205	652.3639	1302.7365	651.8719	K	1415.6016	708.3044	1398.5751	699.7912	1397.5911	699.2992	11
11	1434.7900	717.8986	1417.7635	709.3854	1416.7794	708.8934	N	1231.4804	616.2439	1214.4539	607.7306	1213.4699	607.2386	10
12	1581.8534	791.4329	1564.8319	782.9196	1563.8479	782.4276	F	1117.4375	559.2224	1100.4110	550.7091	1099.4269	550.2171	9
13	1638.8799	819.9436	1621.8533	811.4303	1620.8693	810.9383	G	970.3691	485.6882	953.3426	477.1749	952.3585	476.6829	8
14	1767.9225	884.4649	1750.8959	875.9516	1749.9119	875.4596	F	913.3476	457.1775	896.3211	448.6642	895.3371	448.1722	7
15	1882.9494	941.9784	1865.9229	933.4651	1864.9389	932.9731	D	784.3050	392.6562	767.2785	384.1429	766.2945	383.6509	6
16	2018.0121	1009.5097	2000.9855	1000.9964	2000.0015	1000.5044	M	669.2781	335.1427	652.2516	326.6294	651.2675	326.1374	5
17	2133.0390	1067.0232	2116.0125	1058.5099	2115.0285	1058.0179	D	534.2154	267.6114	517.1889	259.0981	516.2049	258.6061	4
18	2248.0660	1124.5366	2231.0394	1116.0234	2230.0554	1115.5313	D	419.1885	210.0979	402.1619	201.5846	401.1779	201.0926	3
19	2377.1086	1189.0579	2360.0820	1180.5447	2359.0980	1180.0526	F	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
20							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 3298: 1217.689068 from(609.851810,2+) intensity(313489.9063)

Title: File1365 Spectrum6004 scans: 6491

Data file J:\2013-9-14-A549-Prometh-Fr17-ZW.mgf

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

Or, 150 to 1100 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1217.6888

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

Variable modifications:

K1 : Propionyl (K)

K3 : Propionyl-(13CD3)Methyl (K)

K8 : Propionyl (K)

Ions Score: 57 Expect: 0.00072

Matches : 14/90 fragment ions using 19 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1669	84.5546			K							9
2	272.1605	136.5839	255.1339	128.0706	254.1499	127.5786	S	1034.5749	517.7911	1017.5484	509.2778	1016.5644	508.7858	8
3	474.3195	237.6634	457.2929	229.1501	456.3089	228.6581	K	947.5429	474.2751	930.5164	465.7618	929.5323	465.2698	7
4	545.3566	273.1819	528.3301	264.6687	527.3460	264.1767	A	745.3839	373.1956	728.3573	364.6823	727.3733	364.1903	6
5	616.3937	308.7005	599.3672	300.1872	598.3832	299.6952	A	674.3468	337.6770	657.3202	329.1638	656.3362	328.6717	5
6	731.4207	366.2140	714.3941	357.7007	713.4101	357.2087	D	603.3097	302.1585	586.2831	293.6452	585.2991	293.1532	4
7	860.4633	430.7353	843.4367	422.2220	842.4527	421.7300	E	488.2827	244.6450	471.2562	236.1317	470.2722	235.6397	3
8	1044.5844	522.7959	1027.5579	514.2826	1026.5739	513.7906	K	359.2401	180.1237	342.2136	171.6104			2
9							R	175.1190	88.0631	158.0924	79.5498			1

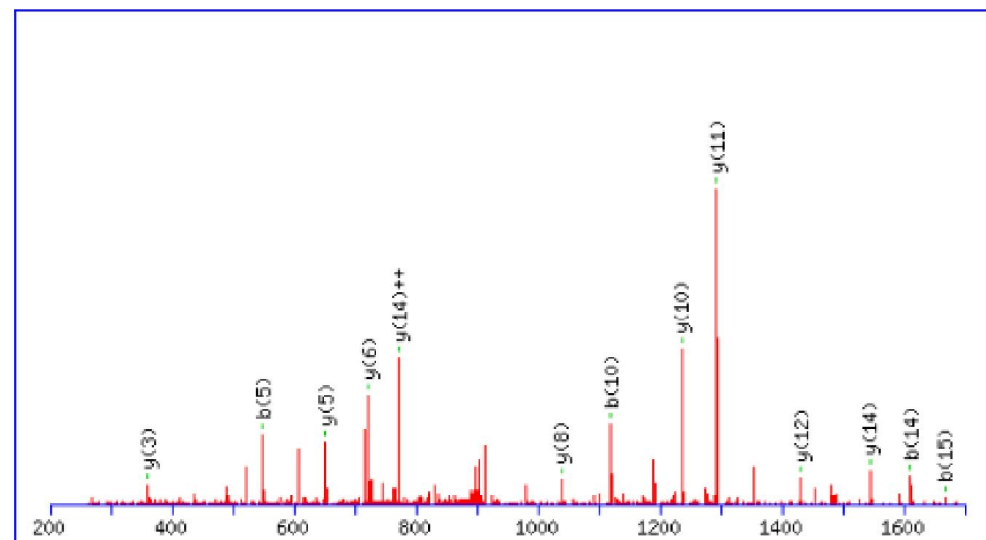
MS/MS Fragmentation of **KIGGHGPTLKAYQEGR**Found in **B7Z904**, Thioredoxin reductase 1 OS=Homo sapiens GN=TXNRD1 PE=2 SV=1

Match to Query 8579: 1841.006448 from(921.510500,2+) intensity(286420.9688)

Title: File1365 Spectrum9571 scans: 10216

Data file J:\2013-9-14-A549-Prometh-Fr17-ZW.mgf

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

Or, 200 1700 Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1841.0068

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

Variable modifications:

K1 : Propionyl (K)

K10 : Propionyl-(13CD3)Methyl (K)

Ions Score: 68 Expect: 9.4e-005

Matches : 13/162 fragment ions using 15 most intense peaks ([help](#))

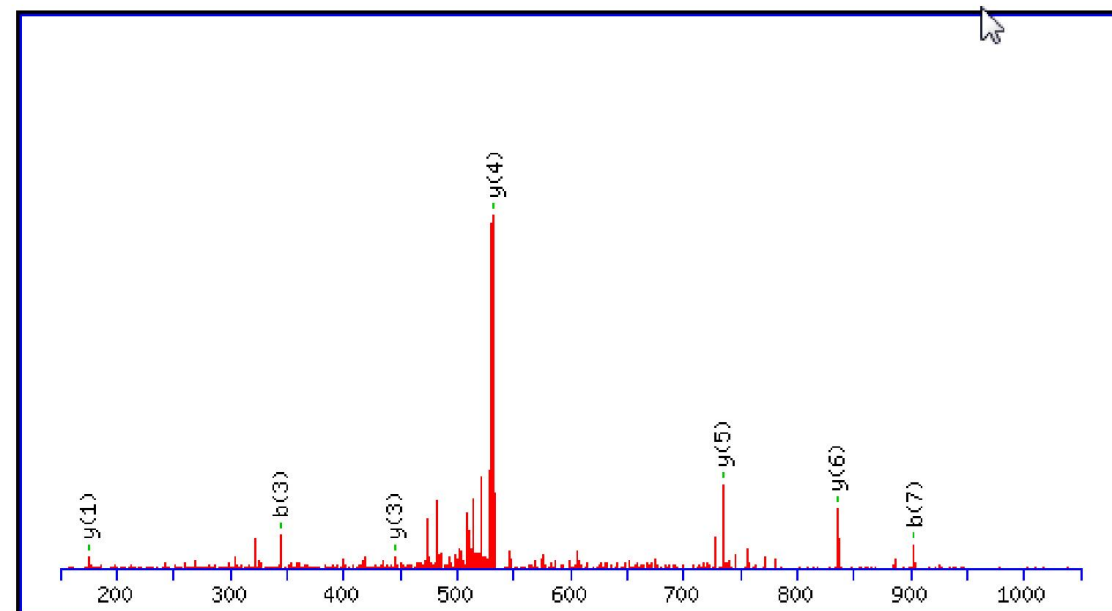
#	b	b ⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							16
2	298.2125	149.6099	281.1860	141.0966			I	1657.8929	829.4501	1640.8664	820.9368	1639.8824	820.4448	15
3	355.2340	178.1206	338.2074	169.6074			G	1544.8089	772.9081	1527.7823	764.3948	1526.7983	763.9028	14
4	412.2554	206.6314	395.2289	198.1181			G	1487.7874	744.3973	1470.7608	735.8841	1469.7768	735.3921	13
5	549.3144	275.1608	532.2878	266.6475			H	1430.7659	715.8866	1413.7394	707.3733	1412.7554	706.8813	12
6	606.3358	303.6715	589.3093	295.1583			G	1293.7070	647.3571	1276.6805	638.8439	1275.6964	638.3519	11
7	703.3886	352.1979	686.3620	343.6847			P	1236.6856	618.8464	1219.6590	610.3331	1218.6750	609.8411	10
8	804.4363	402.7218	787.4097	394.2085	786.4257	393.7165	T	1139.6328	570.3200	1122.6062	561.8068	1121.6222	561.3147	9
9	917.5203	459.2638	900.4938	450.7505	899.5098	450.2585	L	1038.5851	519.7962	1021.5586	511.2829	1020.5745	510.7909	8
10	1119.6793	560.3433	1102.6528	551.8300	1101.6688	551.3380	K	925.5010	463.2542	908.4745	454.7409	907.4905	454.2489	7
11	1190.7165	595.8619	1173.6899	587.3486	1172.7059	586.8566	A	723.3420	362.1747	706.3155	353.6614	705.3315	353.1694	6
12	1353.7798	677.3935	1336.7532	668.8803	1335.7692	668.3882	Y	652.3049	326.6561	635.2784	318.1428	634.2944	317.6508	5
13	1481.8384	741.4228	1464.8118	732.9095	1463.8278	732.4175	Q	489.2416	245.1244	472.2150	236.6112	471.2310	236.1191	4
14	1610.8810	805.9441	1593.8544	797.4308	1592.8704	796.9388	E	361.1830	181.0951	344.1565	172.5819	343.1724	172.0899	3
15	1667.9024	834.4548	1650.8759	825.9416	1649.8919	825.4496	G	232.1404	116.5738	215.1139	108.0006			2
16							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 3472: 1076.625088 from(539.319820,2+) intensity(146545.1875)

Title: File1347 Spectrum9994 scans: 11017

Data file J:\2013-9-14-A549-Prometh-Fr15-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1076.6323**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K4** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 39 **Expect:** 0.047**Matches** : 7/74 fragment ions using 9 most intense peaks

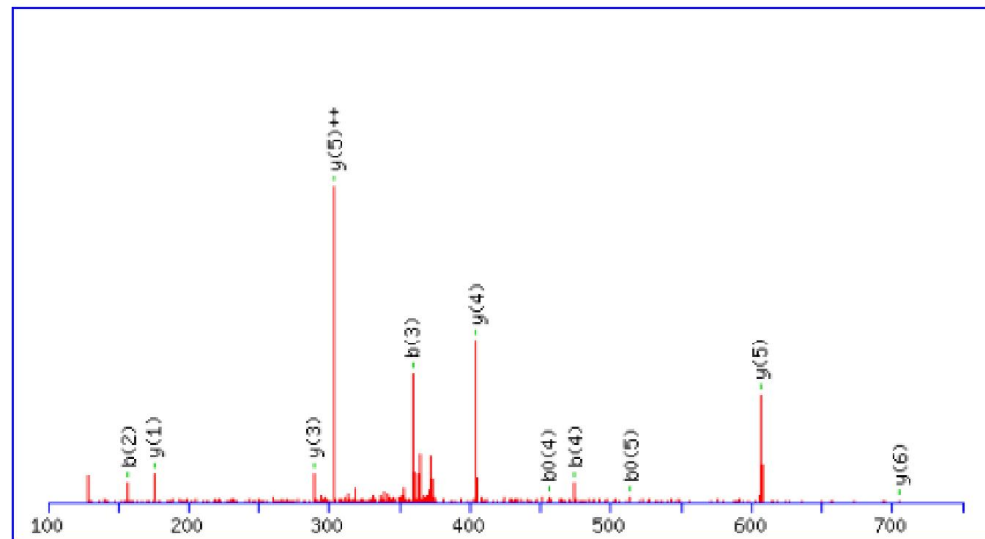
#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	129.1022	65.0548	112.0757	56.5415			K							8
2	243.1452	122.0762	226.1186	113.5629			N	949.5446	475.2760	932.5181	466.7627	931.5341	466.2707	7
3	344.1928	172.6001	327.1663	164.0868	326.1823	163.5948	T	835.5017	418.2545	818.4752	409.7412	817.4911	409.2492	6
4	546.3519	273.6796	529.3253	261.1663	528.3413	264.6743	K	734.4540	367.7307	717.4275	359.2174	716.4435	358.7254	5
5	633.3839	317.1956	616.3573	308.6823	615.3733	308.1903	S	532.2950	266.6511	515.2685	258.1379	514.2845	257.6459	4
6	789.4850	395.2461	772.4584	386.7329	771.4744	386.2409	R	445.2630	223.1351	428.2364	214.6219			3
7	903.5279	452.2676	886.5014	443.7543	885.5174	443.2623	N	289.1619	145.0846	272.1353	136.5713			2
8							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 315: 761.430888 from(381.722720,2+) intensity(179082.3906)

Title: File1347 Spectrum2919 scans: 3548

Data file J:\2013-9-14-A549-Prometh-Fr15-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 761.4304

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

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

Ions Score: 38 Expect: 0.042

Matches : 11/56 fragment ions using 18 most intense peaks ([help](#))

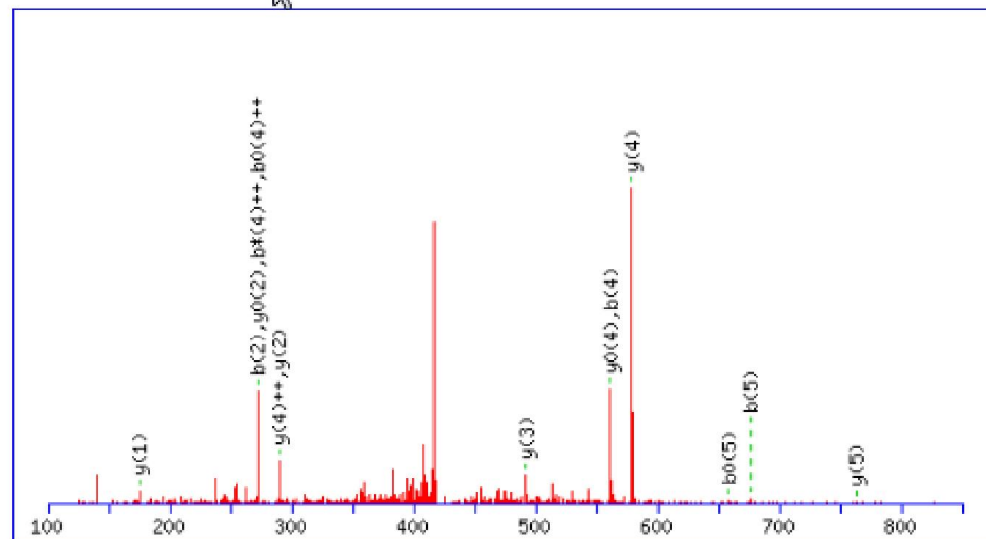
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							7
2	157.0972	79.0522					V	705.4163	353.2118	688.3897	344.6985	687.4057	344.2065	6
3	359.2562	180.1317	342.2296	171.6184			K	606.3478	303.6776	589.3213	295.1643	588.3373	294.6723	5
4	474.2831	237.6452	457.2566	229.1319	456.2725	228.6399	D	404.1888	202.5980	387.1623	194.0848	386.1783	193.5928	4
5	531.3046	266.1559	514.2780	257.6427	513.2940	257.1506	G	289.1619	145.0846	272.1353	136.5713			3
6	588.3260	294.6667	571.2995	286.1534	570.3155	285.6614	G	232.1404	116.5738	215.1139	108.0606			2
7							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 964: 849.483668 from(425.749110,2+) intensity(107069.8672)

Title: File1347 Spectrum2699 scans: 3311

Data file J:\2013-9-14-A549-Prometh-Fr15-ZW.mgf

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

Or, 100 to 850 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 849.4828

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

Variable modifications:

K2 : Propionyl (K)

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 41 Expect: 0.026

Matches : 14/56 fragment ions using 15 most intense peaks

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							6
2	272.1605	136.5839	255.1339	128.0706	254.1499	127.5786	K	763.4581	382.2327	746.4316	373.7194	745.4475	373.2274	5
3	359.1925	180.0999	342.1660	171.5866	341.1819	171.0946	S	579.3369	290.1721	562.3104	281.6588	561.3264	281.1668	4
4	561.3515	281.1794	544.3250	272.6661	543.3410	272.1741	K	492.3049	246.6561	475.2784	238.1428	474.2943	237.6508	3
5	676.3785	338.6929	659.3519	330.1796	658.3679	329.6876	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
6							R	175.1190	88.0631	158.0924	79.5498			1

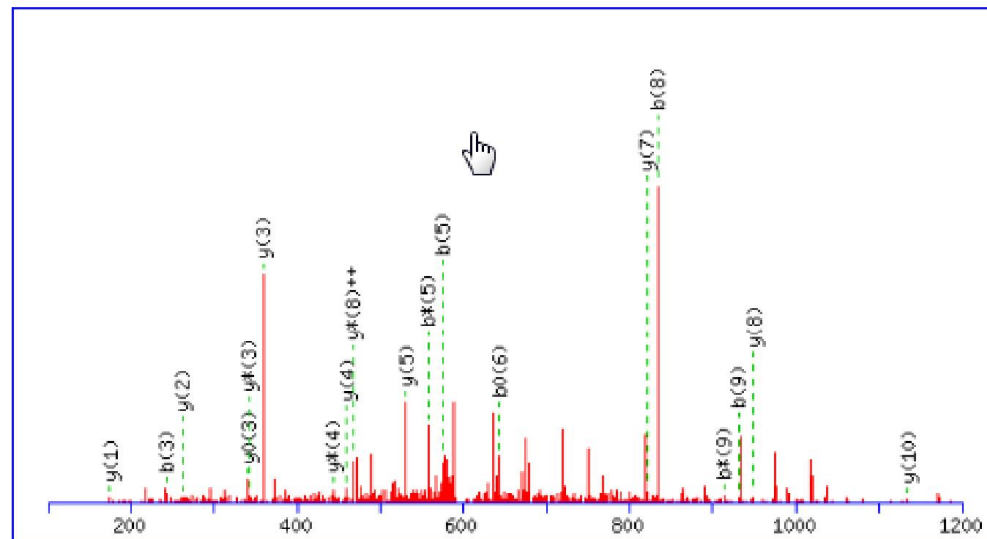
Found in **F8W7I9**, Ran GTPase-activating protein 1 OS=Homo sapiens GN=RANGAP1 PE=2 SV=1

Match to Query 4865: 1190.611188 from(596.312870,2+) intensity(644561.5000)

Title: File1341 Spectrum10942 scans: 11836

Data file I:\2013-9-14-A549-Prometh-Fr13-ZW.mgf

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

Or, 100 1200 Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1190.6164

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

Variable modifications:

K5 : Propionyl-(13CD3)Methyl (K)

Ions Score: 25 Expect: 0.93

Matches : 19/110 fragment ions using 89 most intense peaks ([help](#))

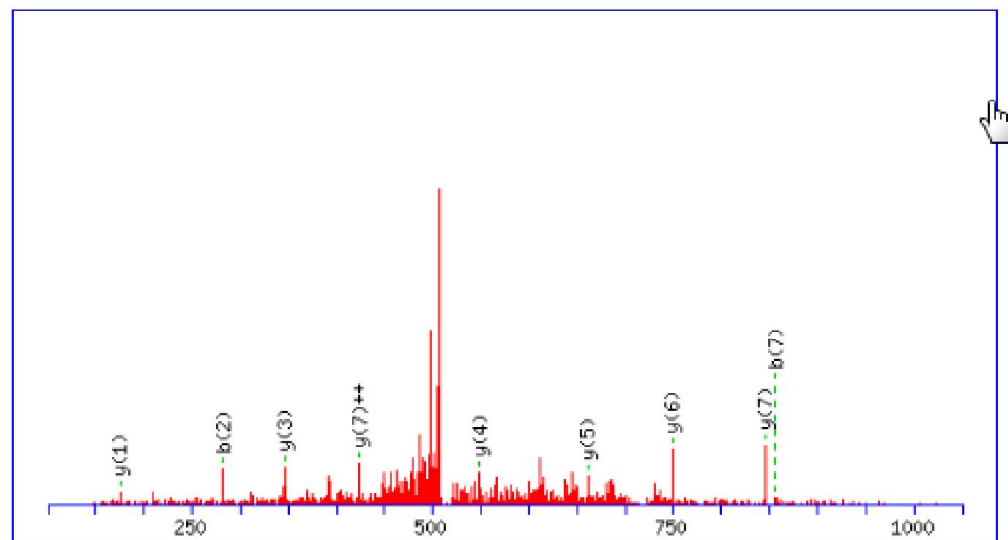
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							11
2	186.0873	93.5473	169.0608	85.0340			Q	1134.6022	567.8047	1117.5757	559.2915	1116.5916	558.7995	10
3	243.1088	122.0580	226.0822	113.5448			G	1006.5436	503.7755	989.5171	495.2622	988.5331	494.7702	9
4	372.1514	186.5793	355.1248	178.0661	354.1408	177.5740	E	949.5222	475.2647	932.4956	466.7514	931.5116	466.2594	8
5	574.3104	287.6588	557.2838	279.1456	556.2998	278.6535	K	820.4796	410.7434	803.4530	402.2302	802.4690	401.7381	7
6	661.3424	331.1748	644.3159	322.6616	643.3319	322.1696	S	618.3206	309.6639	601.2940	301.1506	600.3100	300.6586	6
7	732.3795	366.6934	715.3530	358.1801	714.3690	357.6881	A	531.2885	266.1479	514.2620	257.6346	513.2780	257.1426	5
8	833.4272	417.2172	816.4007	408.7040	815.4166	408.2120	T	460.2514	230.6293	443.2249	222.1161	442.2409	221.6241	4
9	930.4800	465.7436	913.4534	457.2304	912.4694	456.7383	P	359.2037	180.1055	342.1772	171.5922	341.1932	171.1002	3
10	1017.5120	509.2596	1000.4855	500.7464	999.5014	500.2544	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
11							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 2939: 1028.626068 from(515.320310,2+) intensity(19779.6758)

Title: File1341 Spectrum8010 scans: 8781

Data file I:\2013-9-14-A549-Prometh-Fr13-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1028.6251

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

Variable modifications:

K1 : Propionyl (K)

K5 : Propionyl-(13CD3)Methyl (K)

Ions Score: 38 Expect: 0.039

Matches : 9/70 fragment ions using 18 most intense peaks ([help](#))

#	b	b ⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							8
2	282.1812	141.5942	265.1547	133.0810			P	845.5112	423.2592	828.4847	414.7460	827.5006	414.2540	7
3	369.2132	185.1103	352.1867	176.5970	351.2027	176.1050	S	748.4584	374.7329	731.4319	366.2196	730.4479	365.7276	6
4	482.2973	241.6523	465.2708	233.1390	464.2867	232.6470	L	661.4264	331.2168	644.3999	322.7036			5
5	684.4563	342.7318	667.4298	334.2185	666.4458	333.7265	K	548.3424	274.6748	531.3158	266.1615			4
6	741.4778	371.2425	724.4512	362.7293	723.4672	362.2372	G	346.1833	173.5953	329.1568	165.0820			3
7	855.5207	428.2640	838.4942	419.7507	837.5101	419.2587	N	289.1619	145.0846	272.1353	136.5713			2
8							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **PKVKR**

Found in **C9JCD9**, Protein BUD31 homolog OS=Homo sapiens GN=BUD31 PE=2 SV=1

Match to Query 781: 812.538788 from(407.276670,2+) intensity(319013.8750)

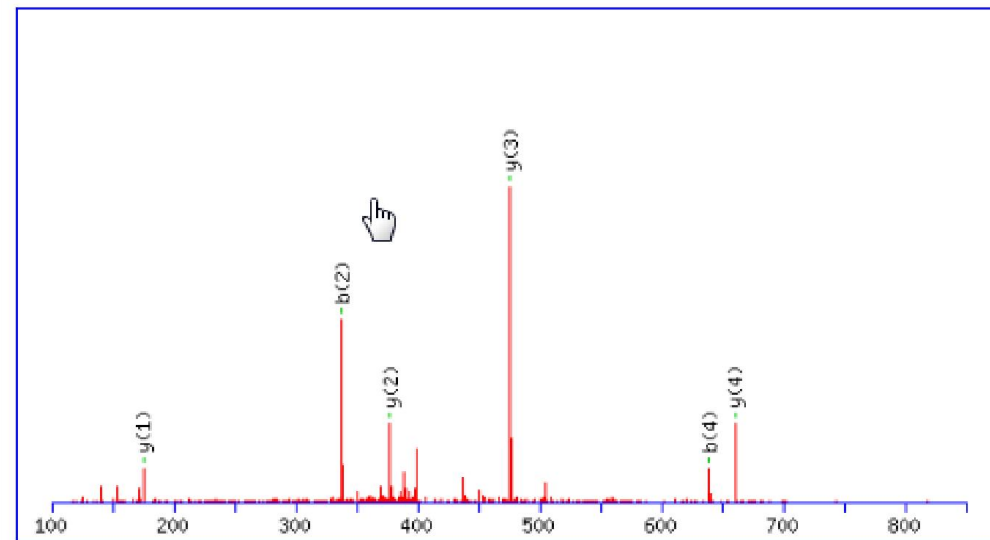
Title: File1341 Spectrum11041 scans: 11939

Data file I:\2013-9-14-A549-Prometh-Fr13-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 812.5392

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

Variable modifications:

N-term : Propionyl (protein N-term) (Protein N-term)

K2 : Propionyl (K)

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 23 Expect: 0.67

Matches : 6/30 fragment ions using 13 most intense peaks [\(help\)](#)

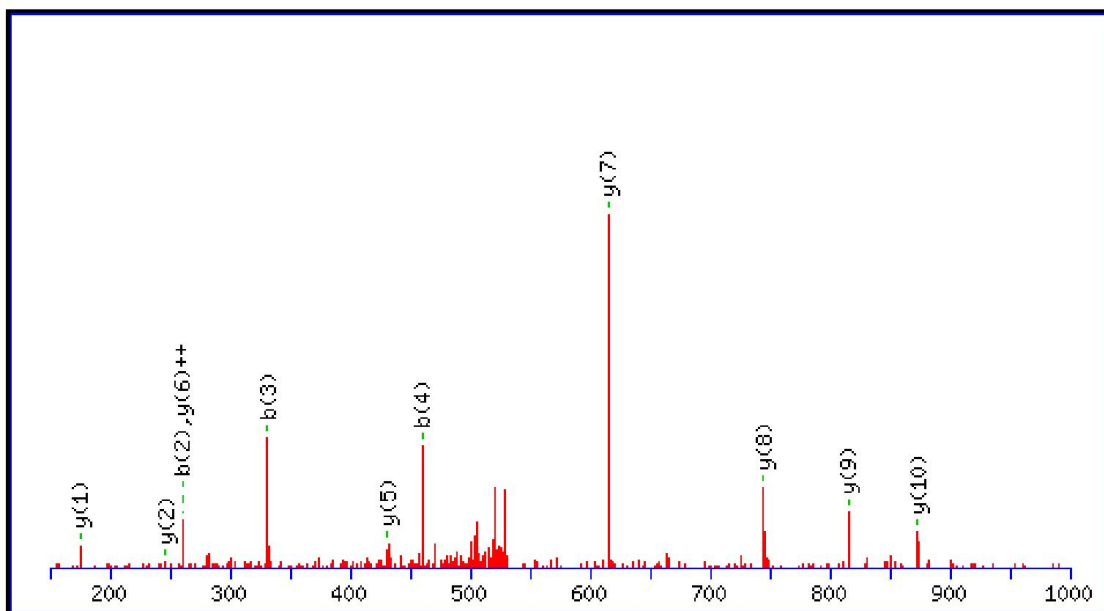
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							8
2	282.1812	141.5942	265.1547	133.0810			P	845.5112	423.2592	828.4847	414.7460	827.5006	414.2540	7
3	369.2132	185.1103	352.1867	176.5970	351.2027	176.1050	S	748.4584	374.7329	731.4319	366.2196	730.4479	365.7276	6
4	482.2973	241.6523	465.2708	233.1390	464.2867	232.6470	L	661.4264	331.2168	644.3999	322.7036			5
5	684.4563	342.7318	667.4298	334.2185	666.4458	333.7265	K	548.3424	274.6748	531.3158	266.1615			4
6	741.4778	371.2425	724.4512	362.7293	723.4672	362.2372	G	346.1833	173.5953	329.1568	165.0820			3
7	855.5207	428.2640	838.4942	419.7507	837.5101	419.2587	N	289.1619	145.0846	272.1353	136.5713			2
8							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 3436: 1073.573828 from(537.794190, 2+) intensity(36450.6797)

Title: File1341 Spectrum2209 scans: 2678

Data file I:\2013-9-14-A549-Prometh-Fr13-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1073.5738

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 51 Expect: 0.0028

Matches : 11/104 fragment ions using 18 most intense peaks ([help](#))

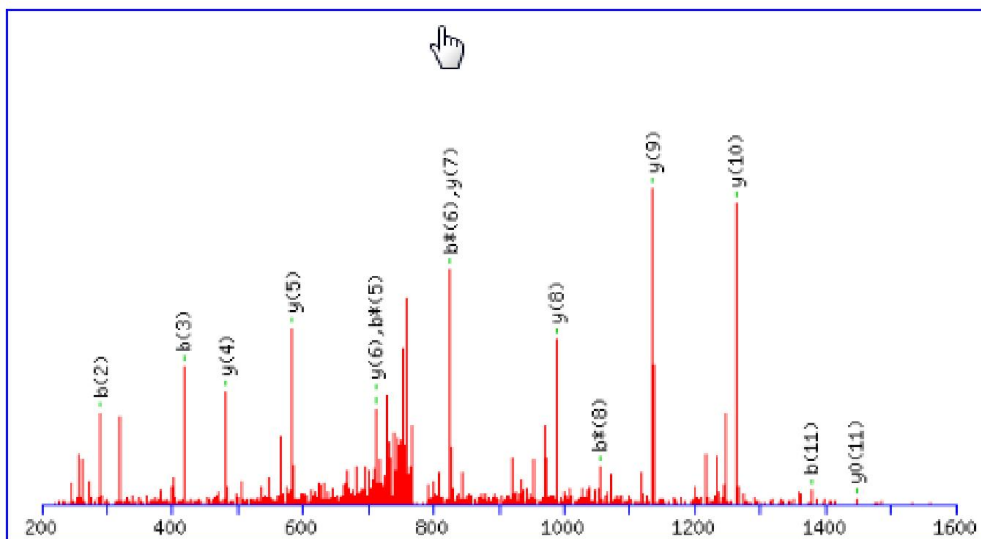
#	b	b ⁺	b ⁺	b ⁺	b ⁰	b ⁰⁺	Seq.	y	y ⁺	y ⁺	y ⁺	y ⁰	y ⁰⁺	#
1	203.1663	102.0868	106.1397	93.5735			K							11
2	260.1878	130.5975	243.1612	122.0842			G	872.4221	436.7147	855.3955	428.2014	854.4115	427.7094	10
3	331.2249	166.1161	314.1983	157.6023			A	815.4006	408.2039	798.3741	399.6907	797.3900	399.1987	9
4	460.2675	230.6374	443.2409	222.1341	442.2569	221.6321	E	744.3635	372.6854	727.3369	364.1721	726.3529	363.6801	8
5	557.3202	279.1638	540.2937	270.6505	539.3097	270.1595	P	615.3209	308.1641	598.2944	299.6508	597.3103	299.1582	7
6	644.3523	322.6798	627.3257	314.1665	626.3417	313.6745	S	518.2681	259.6377	501.2416	251.1244	500.2576	250.6324	6
7	701.3737	351.1905	684.3472	342.6772	683.3632	342.1852	G	431.2361	216.1217	414.2096	207.6084			5
8	758.3952	379.7012	741.3686	371.1880	740.3846	370.6959	G	374.2146	187.6110	357.1881	179.0977			4
9	829.4323	415.2198	812.4057	406.7065	811.4217	406.2145	A	317.1932	159.1002	300.1666	150.5870			3
10	900.4694	450.7383	883.4429	442.2251	882.4588	441.7331	A	246.1561	123.5817	229.1295	115.0684			2
11							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 9179: 1551.758528 from(776.886540,2+) intensity(124892.4063)

Title: File1341 Spectrum9081 scans: 9897

Data file I:\2013-9-14-A549-Prometh-Fr13-ZW.mgf

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

Or, 200 to 1600 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1551.7590

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

Ions Score: 64 Expect: 0.00012

Matches : 14/128 fragment ions using 14 most intense peaks [\(help\)](#)

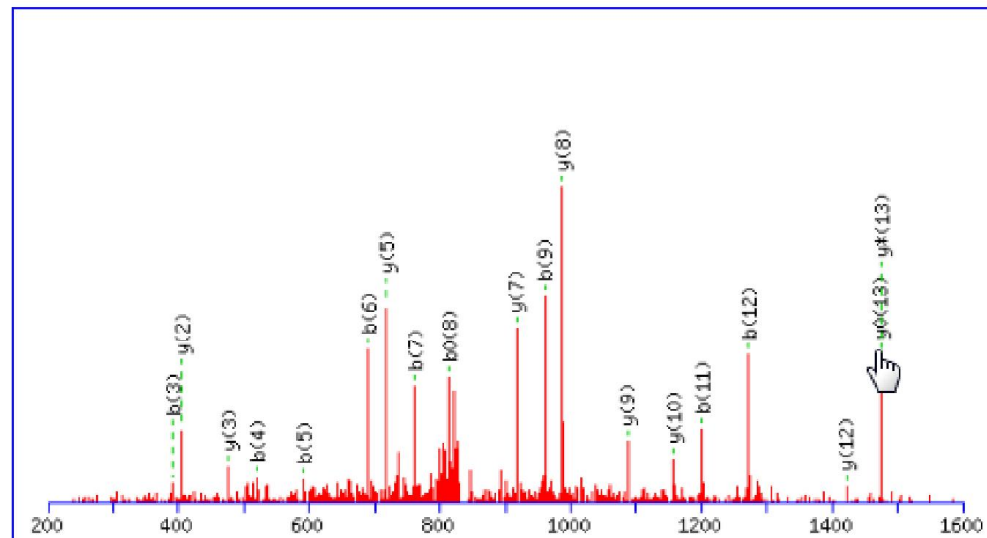
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							12
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	K	1465.7343	733.3708	1448.7077	724.8575	1447.7237	724.3655	11
3	418.2569	209.6321	401.2303	201.1188	400.2463	200.6268	Q	1263.5753	632.2913	1246.5487	623.7780	1245.5647	623.2860	10
4	565.3253	283.1663	548.2988	274.6530	547.3147	274.1610	F	1135.5167	568.2620	1118.4902	559.7487	1117.5061	559.2567	9
5	728.3886	364.6980	711.3621	356.1847	710.3781	355.6927	Y	988.4483	494.7278	971.4217	486.2145	970.4377	485.7225	8
6	842.4316	421.7194	825.4050	413.2061	824.4210	412.7141	N	825.3850	413.1961	808.3584	404.6828	807.3744	404.1908	7
7	970.4901	485.7487	953.4636	477.2354	952.4796	476.7434	Q	711.3420	356.1747	694.3155	347.6614	693.3315	347.1694	6
8	1071.5378	536.2725	1054.5113	527.7593	1053.5273	527.2673	T	583.2835	292.1454	566.2569	283.6321	565.2729	283.1401	5
9	1234.6012	617.8042	1217.5746	609.2909	1216.5906	608.7989	Y	482.2358	241.6215	465.2092	233.1083	464.2252	232.6162	4
10	1291.6226	646.3149	1274.5961	637.8017	1273.6121	637.3097	G	319.1724	160.0899	302.1459	151.5766	301.1619	151.0846	3
11	1378.6546	689.8310	1361.6281	681.3177	1360.6441	680.8257	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
12							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 10447: 1675.972628 from(838.993590,2+) intensity(335509.1875)

Title: File1341 Spectrum11978 scans: 12915

Data file I:\2013-9-14-A549-Prometh-Fr13-ZW.mgf

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

Or, 200 to 1600 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1675.9724

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

Variable modifications:

K1 : Propionyl (K)
 M3 : Label:13C(1)2H(3) (M)
 K11 : Propionyl (K)
 K13 : Propionyl-(13CD3)Methyl (K)
 K14 : Propionyl (K)

Ions Score: 66 Expect: 7.8e-005

Matches : 20/130 fragment ions using 28 most intense peaks [\(help\)](#)

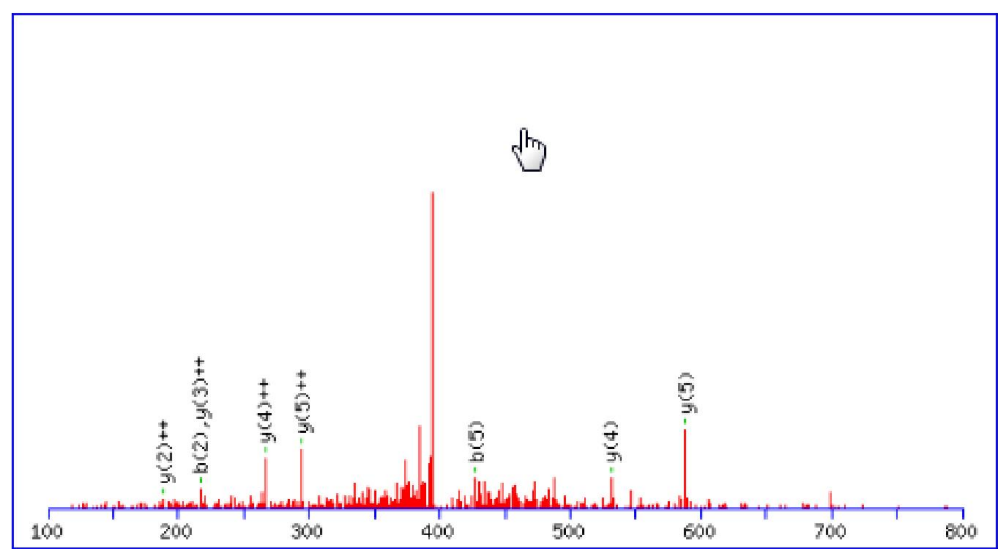
#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							14
2	256.1656	128.5864	239.1390	120.0731			A	1492.8585	746.9329	1475.8320	738.4196	1474.8479	737.9276	13
3	391.2282	196.1178	374.2017	187.6045			M	1421.8214	711.4143	1404.7948	702.9011	1403.8108	702.4090	12
4	520.2708	260.6391	503.2443	252.1258	502.2603	251.6338	E	1286.7587	643.8830	1269.7322	635.3697	1268.7482	634.8777	11
5	591.3079	296.1576	574.2814	287.6443	573.2974	287.1523	A	1157.7161	579.3617	1140.6896	570.8484			10
6	690.3764	345.6918	673.3498	337.1785	672.3658	336.6865	V	1086.6790	543.8431	1069.6525	535.3299			9
7	761.4135	381.2104	744.3869	372.6971	743.4029	372.2051	A	987.6106	494.3089	970.5840	485.7957			8
8	832.4506	416.7289	815.4240	408.2157	814.4400	407.7236	A	916.5735	458.7904	899.5469	450.2771			7
9	960.5092	480.7582	943.4826	472.2449	942.4986	471.7529	Q	845.5364	423.2718	828.5098	414.7585			6
10	1017.5306	509.2690	1000.5041	500.7557	999.5201	500.2637	G	717.4778	359.2425	700.4512	350.7293			5
11	1201.6518	601.3295	1184.6253	592.8163	1183.6412	592.3243	K	660.4563	330.7318	643.4298	322.2185			4
12	1272.6889	636.8481	1255.6624	628.3348	1254.6784	627.8428	A	476.3351	238.6712	459.3086	230.1579			3
13	1474.8479	737.9276	1457.8214	729.4143	1456.8374	728.9223	K	405.2980	203.1527	388.2715	194.6394			2
14							K	203.1390	102.0731	186.1125	93.5599			1

Match to Query 510: 803.441808 from(402.728180,2+) intensity(12087.5791)
 Title: File1344 Spectrum1354 scans: 2002
 Data file I:\2013-9-14-A549-Prometh-Fr12-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 803.4410
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)
 Variable modifications:
 K6 : Propionyl-(13CD3)Methyl (K)
 Ions Score: 21 Expect: 2
 Matches : 8/52 fragment ions using 21 most intense peaks [\(help\)](#)

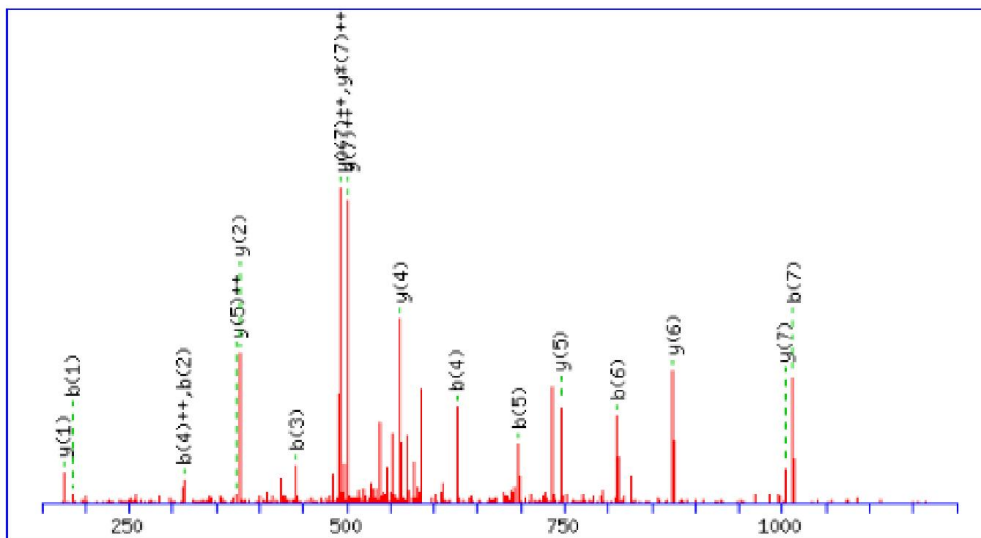
#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	116.0342	58.5207			98.0237	49.5155	D							7
2	217.0819	109.0446			199.0713	100.0393	T	689.4213	345.2143	672.3948	336.7010	671.4108	336.2090	6
3	274.1034	137.5553			256.0928	128.5500	G	588.3737	294.6905	571.3471	286.1772			5
4	371.1561	186.0817			353.1456	177.0764	P	531.3522	266.1797	514.3256	257.6665			4
5	428.1776	214.5924			410.1670	205.5872	G	434.2994	217.6534	417.2729	209.1401			3
6	630.3366	315.6719	613.3101	307.1587	612.3260	306.6667	K	377.2780	189.1426	360.2514	180.6293			2
7							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 4023: 1185.735808 from(593.875180,2+) intensity(435725.2813)

Title: File1344 Spectrum6891 scans: 8054

Data file I:\2013-9-14-A549-Prometh-Fr12-ZW.mgf

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

Or, 150 to 1200 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc) : 1185.7354

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

Variable modifications:

K1 : Propionyl (K)

K4 : Propionyl (K)

K7 : Propionyl-(13CD3)Methyl (K)

Ions Score: 46 Expect: 0.0042

Matches : 18/70 fragment ions using 30 most intense peaks [\(help\)](#)

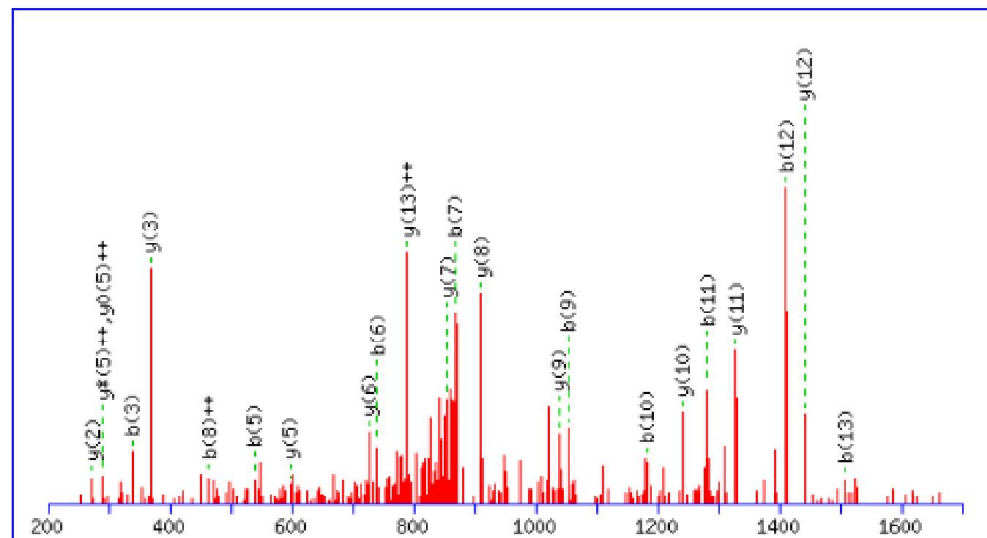
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							8
2	313.1870	157.0972	296.1605	148.5839			Q	1002.6215	501.8144	985.5949	493.3011	984.6109	492.8091	7
3	442.2296	221.6185	425.2031	213.1052	424.2191	212.6132	E	874.5629	437.7851	857.5364	429.2718	856.5523	428.7798	6
4	626.3508	313.6790	609.3243	305.1658	608.3402	304.6738	K	745.5203	373.2638	728.4938	364.7505			5
5	697.3879	349.1976	680.3614	340.6843	679.3774	340.1923	A	561.3991	281.2032	544.3726	272.6899			4
6	810.4720	405.7396	793.4454	397.2264	792.4614	396.7343	L	490.3620	245.6847	473.3355	237.1714			3
7	1012.6310	506.8191	995.6044	498.3059	994.6204	497.8139	K	377.2780	189.1426	360.2514	180.6293			2
8							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 8805: 1777.962128 from(889.988340,2+) intensity(17791.3906)

Title: File1350 Spectrum7597 scans: 8237

Data file J:\2013-9-14-A549-Prometh-Fr11-ZW.mgf

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

Or, 200 to 1700 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1777.9595

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

Variable modifications:

K6 : Propionyl-(13CD3)Methyl (K)

Ions Score: 54 Expect: 0.0024

Matches : 23/150 fragment ions using 43 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					I							15
2	201.1234	101.0653			183.1128	92.0600	S	1665.8827	833.4450	1648.8562	824.9317	1647.8722	824.4397	14
3	338.1823	169.5948			320.1717	160.5895	H	1578.8507	789.9290	1561.8242	781.4157	1560.8402	780.9237	13
4	451.2663	226.1368			433.2558	217.1315	L	1441.7918	721.3995	1424.7653	712.8863	1423.7812	712.3943	12
5	538.2984	269.6528			520.2878	260.6475	S	1328.7077	664.8575	1311.6812	656.3442	1310.6972	655.8522	11
6	740.4574	370.7323	723.4308	362.2191	722.4468	361.7270	K	1241.6757	621.3415	1224.6492	612.8282	1223.6651	612.3362	10
7	868.5160	434.7616	851.4894	426.2483	850.5054	425.7563	Q	1039.5167	520.2620	1022.4902	511.7487	1021.5061	511.2567	9
8	925.5374	463.2724	908.5109	454.7591	907.5269	454.2671	G	911.4581	456.2327	894.4316	447.7194	893.4476	447.2274	8
9	1053.5960	527.3016	1036.5695	518.7884	1035.5854	518.2964	Q	854.4367	427.7220	837.4101	419.2087	836.4261	418.7167	7
10	1182.6386	591.8229	1165.6120	583.3097	1164.6280	582.8177	E	726.3781	363.6927	709.3515	355.1794	708.3675	354.6874	6
11	1281.7070	641.3571	1264.6805	632.8439	1263.6964	632.3519	V	597.3355	299.1714	580.3089	290.6581	579.3249	290.1661	5
12	1410.7496	705.8784	1393.7231	697.3652	1392.7390	696.8732	E	498.2671	249.6372	481.2405	241.1239	480.2565	240.6319	4
13	1507.8024	754.4048	1490.7758	745.8915	1489.7918	745.3995	P	369.2245	185.1159	352.1979	176.6026			3
14	1604.8551	802.9312	1587.8286	794.4179	1586.8446	793.9259	P	272.1717	136.5895	255.1452	128.0762			2
15							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **TAKKVQR**

Found in **B4DY13**, Nucleolar GTP-binding protein 1 OS=Homo sapiens GN=GTPBP4 PE=2 SV=1

Match to Query 2365: 959.603068 from(480.808810,2+) intensity(49457.5820)

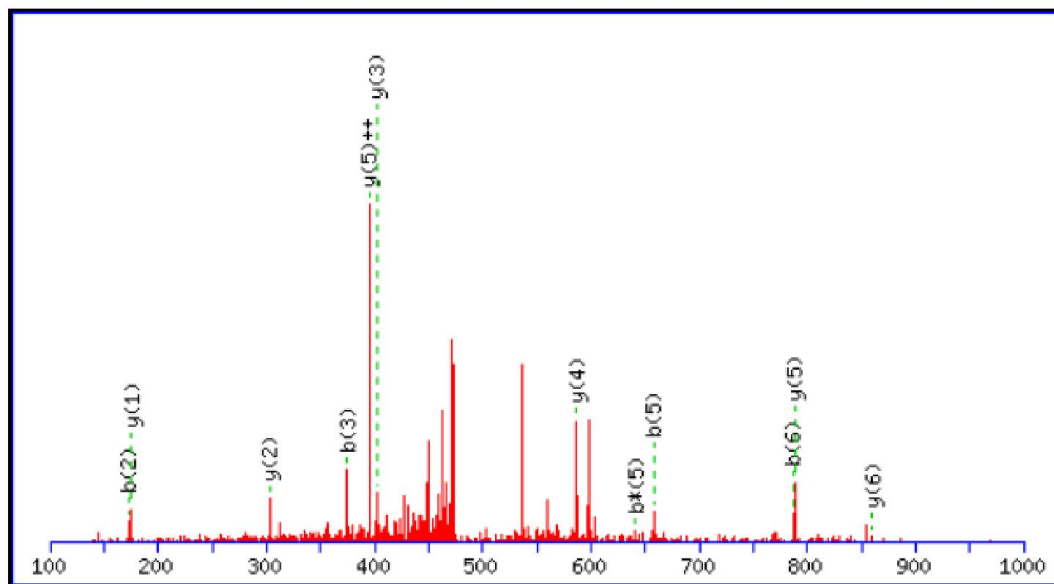
Title: File1338 Spectrum4649 scans: 5169

Data file I:\2013-9-14-A549-Prometh-Fr2-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 959.6036

Fixed modifications: Carbamidomethyl (C) (apply to specified residue)

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

K4 : Propionyl (K)

Ions Score: 38 Expect: 0.033

Matches : 12/56 fragment ions using 24 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	102.0550	51.5311			84.0444	42.5258	T					7
2	173.0921	87.0497			155.0815	78.0444	A	859.5632	430.2853	842.5367	421.7720	6
3	375.2511	188.1292	358.2245	179.6159	357.2405	179.1239	K	788.5261	394.7667	771.4996	386.2534	5
4	559.3723	280.1898	542.3457	271.6765	541.3617	271.1845	K	586.3671	293.6872	569.3406	285.1739	4
5	658.4407	329.7240	641.4141	321.2107	640.4301	320.7187	V	402.2459	201.6266	385.2194	193.1133	3
6	786.4993	393.7533	769.4727	385.2400	768.4887	384.7480	Q	303.1775	152.0924	286.1510	143.5791	2
7							R	175.1190	88.0631	158.0924	79.5498	1

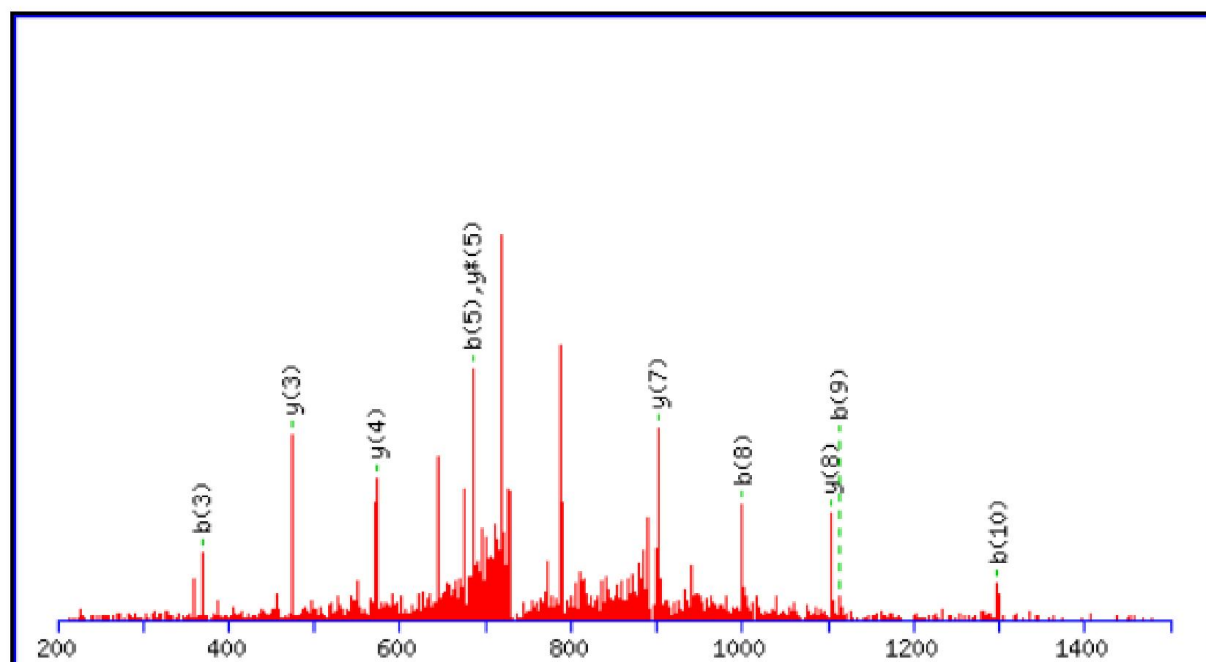
Found in **Q8NCF5**, NFATC2-interacting protein OS=Homo sapiens GN=NFATC2IP PE=1 SV=1

Match to Query 7460: 1470.902928 from(736.458740,2+) intensity(34848.6563)

Title: File1338 Spectrum12611 scans: 13505

Data file I:\2013-9-14-A549-Prometh-Fr2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1470.9042

Fixed modifications: Carbamidomethyl (C) (apply to specific)

Variable modifications:

K3 : Propionyl (K)

K4 : Propionyl-(13CD3)Methyl (K)

K10 : Propionyl (K)

Ions Score: 43 Expect: 0.0093

Matches : 10/98 fragment ions using 13 most intense peaks

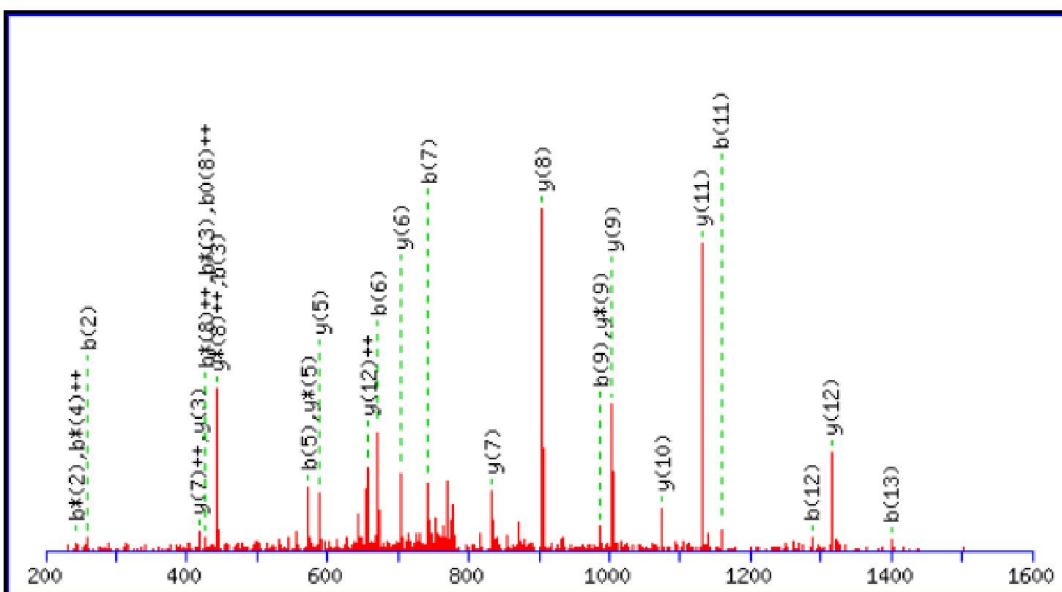
#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							11
2	185.1285	93.0679					L	1400.8744	700.9408	1383.8479	692.4276	1382.8638	691.9356	10
3	369.2496	185.1285	352.2231	176.6152			K	1287.7903	644.3988	1270.7638	635.8855	1269.7798	635.3935	9
4	571.4086	286.2080	554.3821	277.6947			K	1103.6692	552.3382	1086.6426	543.8249	1085.6586	543.3329	8
5	684.4927	342.7500	667.4662	334.2367			L	901.5102	451.2587	884.4836	442.7454	883.4996	442.2534	7
6	771.5247	386.2660	754.4982	377.7527	753.5142	377.2607	S	788.4261	394.7167	771.3995	386.2034	770.4155	385.7114	6
7	900.5673	450.7873	883.5408	442.2740	882.5568	441.7820	E	701.3941	351.2007	684.3675	342.6874	683.3835	342.1954	5
8	999.6357	500.3215	982.6092	491.8082	981.6252	491.3162	V	572.3515	286.6794	555.3249	278.1661			4
9	1113.6787	557.3430	1096.6521	548.8297	1095.6681	548.3377	N	473.2831	237.1452	456.2565	228.6319			3
10	1297.7998	649.4036	1280.7733	640.8903	1279.7893	640.3983	K	359.2401	180.1237	342.2136	171.6104			2
11							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 9028: 1573.821988 from(787.918270,2+) intensity(44815.3320)

Title: File1368 Spectrum9031 scans: 9741

Data file J:\2013-9-14-A549-Prometh-Fr6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1573.8220

Fixed modifications: Carbamidomethyl (C) (apply to specified residue)

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K3 : Propionyl (K)

Ions Score: 63 Expect: 0.00027

Matches : 28/136 fragment ions using 39 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							14
2	260.1878	130.5975	243.1612	122.0842			K	1517.8078	759.4076	1500.7813	750.8943	1499.7973	750.4023	13
3	444.3089	222.6581	427.2824	214.1448			K	1315.6488	658.3281	1298.6223	649.8148	1297.6383	649.3228	12
4	501.3304	251.1688	484.3038	242.6556			G	1131.5277	566.2675	1114.5011	557.7542	1113.5171	557.2622	11
5	572.3675	286.6874	555.3410	278.1741			A	1074.5062	537.7567	1057.4796	529.2435	1056.4956	528.7515	10
6	671.4359	336.2216	654.4094	327.7083			V	1003.4691	502.2382	986.4425	493.7249	985.4585	493.2329	9
7	742.4730	371.7402	725.4465	363.2269			A	904.4007	452.7040	887.3741	444.1907	886.3901	443.6987	8
8	871.5156	436.2615	854.4891	427.7482	853.5051	427.2562	E	833.3636	417.1854	816.3370	408.6721	815.3530	408.1801	7
9	986.5426	493.7749	969.5160	485.2616	968.5320	484.7696	D	704.3210	352.6641	687.2944	344.1508	686.3104	343.6588	6
10	1043.5640	522.2857	1026.5375	513.7724	1025.5535	513.2804	G	589.2940	295.1506	572.2675	286.6374	571.2835	286.1454	5
11	1158.5910	579.7991	1141.5644	571.2859	1140.5804	570.7938	D	532.2726	266.6399	515.2460	258.1266	514.2620	257.6346	4
12	1287.6336	644.3204	1270.6070	635.8071	1269.6230	635.3151	E	417.2456	209.1264	400.2191	200.6132	399.2350	200.1212	3
13	1400.7176	700.8625	1383.6911	692.3492	1382.7071	691.8572	L	288.2030	144.6051	271.1765	136.0919			2
14							R	175.1190	88.0631	158.0924	79.5498			1

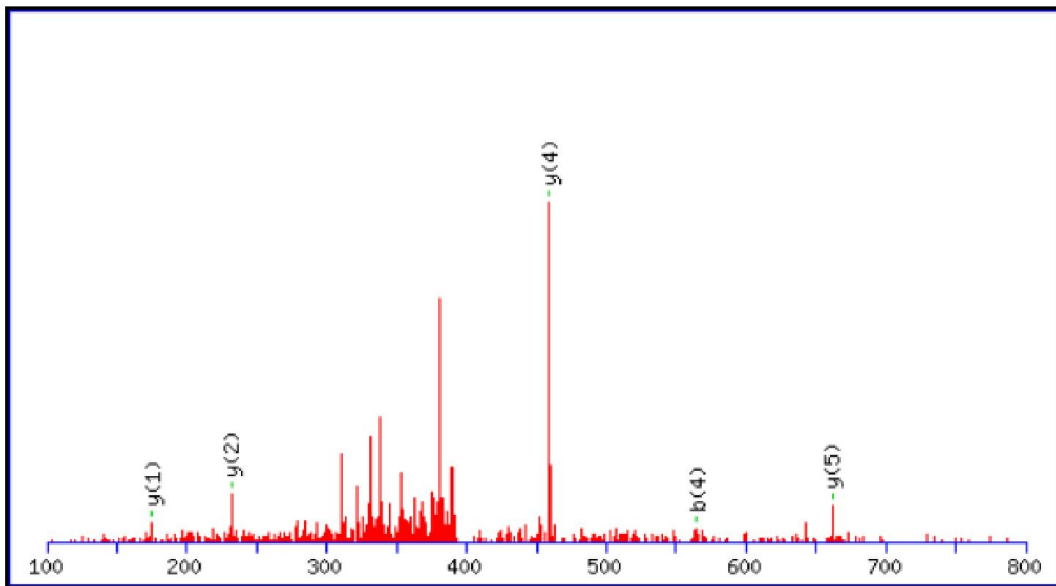
Found in **Q8WW12-3**, Isoform 3 of PEST proteolytic signal-containing nuclear protein OS=Homo sapiens GN=PCNP

Match to Query 627: 795.481668 from(398.748110,2+) intensity(25127.4668)

Title: File1341 Spectrum6057 scans: 6746

Data file I:\2013-9-14-A549-Prometh-Fr13-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 795.4818

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

Variable modifications:

M1 : Label:13C(1)2H(3) (M)

K2 : Propionyl-(13CD3)Methyl (K)

Ions Score: 26 Expect: 0.37

Matches : 5/38 fragment ions using 7 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ^{*++}	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
1	136.0699	68.5386			M					6
2	338.2290	169.6181	321.2024	161.1048	K	661.4264	331.2168	644.3999	322.7036	5
3	452.2719	226.6396	435.2453	218.1263	N	459.2674	230.1373	442.2409	221.6241	4
4	565.3560	283.1816	548.3294	274.6683	I	345.2245	173.1159	328.1979	164.6026	3
5	622.3774	311.6923	605.3509	303.1791	G	232.1404	116.5738	215.1139	108.0606	2
6					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 18515: 2582.422812 from(861.814880,3+) intensity(30429.6426)

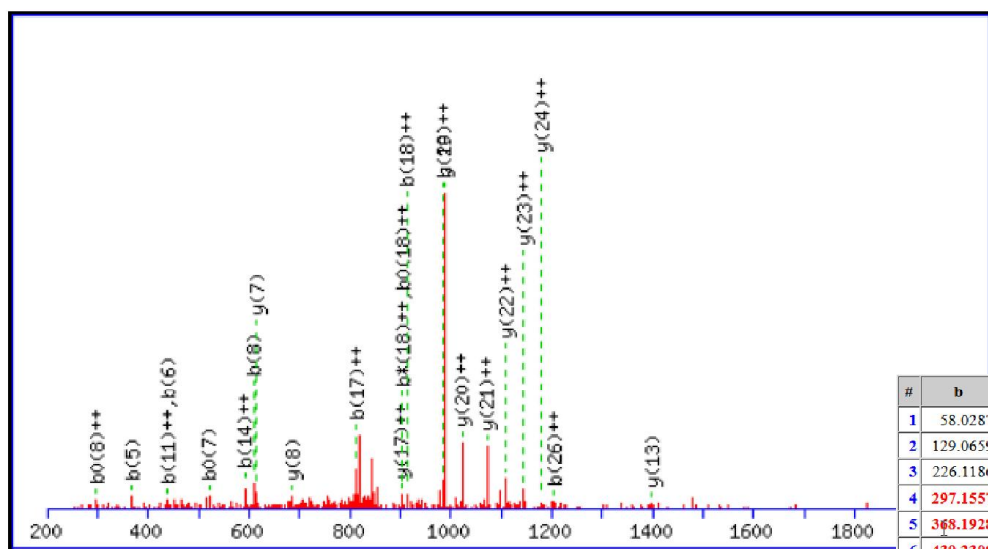
Title: File1341 Spectrum7601 scans: 8355

Data file I:\2013-9-14-A549-Prometh-Fr13-ZW.mgf

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

Or, 200 to 2000 Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2582.4201

Fixed modifications: Carbamidomethyl (C) (apply to specified residue)

Variable modifications:

K15 : Propionyl (K)

K17 : Propionyl (K)

K18 : Propionyl-(13CD3)Methyl (K)

Ions Score: 28 Expect: 0.88

Matches : 25/270 fragment ions using 58 most intense peaks [\(help\)](#)

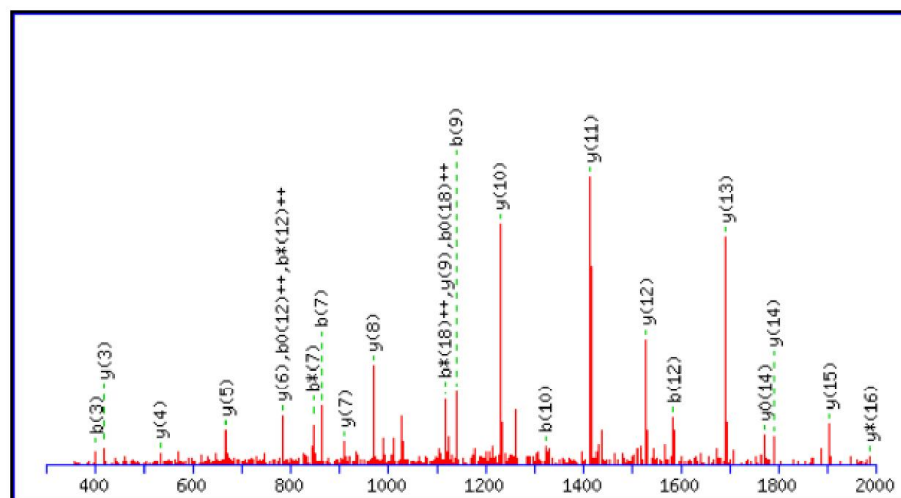
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							27
2	129.0659	65.0366					A	2526.4060	1263.7066	2509.3794	1255.1933	2508.3954	1254.7013	26
3	226.1186	113.5629					P	2455.3689	1228.1881	2438.3423	1219.6748	2437.3583	1219.1828	25
4	297.1557	149.0815					A	2358.3161	1179.6617	2341.2895	1171.1484	2340.3055	1170.6564	24
5	368.1928	184.6001					A	2287.2790	1144.1431	2270.2524	1135.6299	2269.2684	1135.1378	23
6	439.2300	220.1186					A	2216.2419	1108.6246	2199.2153	1100.1113	2198.2313	1099.6193	22
7	540.2776	270.6425			522.2671	261.6372	T	2145.2048	1073.1060	2128.1782	1064.5927	2127.1942	1064.1007	21
8	611.3148	306.1610			593.3042	297.1557	A	2044.1571	1022.5822	2027.1305	1014.0689	2026.1465	1013.5769	20
9	708.3675	354.6874			690.3570	345.6821	P	1973.1200	987.0636	1956.0934	978.5503	1955.1094	978.0583	19
10	779.4046	390.2060			761.3941	381.2007	A	1876.0672	938.5372	1859.0406	930.0240	1858.0566	929.5320	18
11	876.4574	438.7323			858.4468	429.7271	P	1805.0301	903.0187	1788.0035	894.5054	1787.0195	894.0134	17
12	977.5051	489.2562			959.4945	480.2509	T	1707.9773	854.4923	1690.9508	845.9790	1689.9668	845.4870	16
13	1048.5422	524.7747			1030.5316	515.7694	A	1606.9296	803.9685	1589.9031	795.4552	1588.9191	794.9632	15
14	1185.6011	593.3042			1167.5905	584.2989	H	1535.8925	768.4499	1518.8660	759.9366	1517.8820	759.4446	14
15	1369.7223	685.3648	1352.6957	676.8515	1351.7117	676.3595	K	1398.8336	699.9204	1381.8071	691.4072	1380.8230	690.9152	13
16	1440.7594	720.8833	1423.7328	712.3701	1422.7488	711.8781	A	1214.7124	607.8599	1197.6859	599.3466	1196.7019	598.8546	12
17	1624.8806	812.9439	1607.8540	804.4306	1606.8700	803.9386	K	1143.6753	572.3413	1126.6488	563.8280	1125.6648	563.3360	11
18	1827.0396	914.0234	1810.0130	905.5102	1809.0290	905.0181	K	959.5541	480.2807	942.5276	471.7674	941.5436	471.2754	10
19	1898.0767	949.5420	1881.0501	941.0287	1880.0661	940.5367	A	757.3951	379.2012	740.3686	370.6879	739.3846	370.1959	9
20	1969.1138	985.0605	1952.0873	976.5473	1951.1032	976.0553	A	686.3580	343.6826	669.3315	335.1694	668.3474	334.6774	8
21	2066.1666	1033.5869	2049.1400	1025.0737	2048.1560	1024.5816	P	615.3209	308.1641	598.2944	299.6508	597.3103	299.1588	7
22	2123.1880	1062.0977	2106.1615	1053.5844	2105.1775	1053.0924	G	518.2681	259.6377	501.2416	251.1244	500.2576	250.6324	6
23	2194.2252	1097.6162	2177.1986	1089.1029	2176.2146	1088.6109	A	461.2467	231.1270	444.2201	222.6137	443.2361	222.1217	5
24	2265.2623	1133.1348	2248.2357	1124.6215	2247.2517	1124.1295	A	390.2096	195.6084	373.1830	187.0951	372.1990	186.6031	4
25	2322.2837	1161.6455	2305.2572	1153.1322	2304.2732	1152.6402	G	319.1724	160.0899	302.1459	151.5766	301.1619	151.0846	3
26	2409.3158	1205.1615	2392.2892	1196.6482	2391.3052	1196.1562	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
27							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 14545: 2554.211528 from(1278.113040,2+) intensity(57242.3477)

Title: File1365 Spectrum17316 scans: 18289

Data file J:\2013-9-14-A549-Prometh-Fr17-ZW.mgf

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

Or, 300 to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 2554.2079

Fixed modifications: Carbamidomethyl (C) (apply to specified residues)

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K10 : Propionyl (K)

M16 : Label:13C(1)2H(3) (M)

Ions Score: 87 Expect: 7.5e-007

Matches : 25/220 fragment ions using 34 most intense peaks ([help](#))

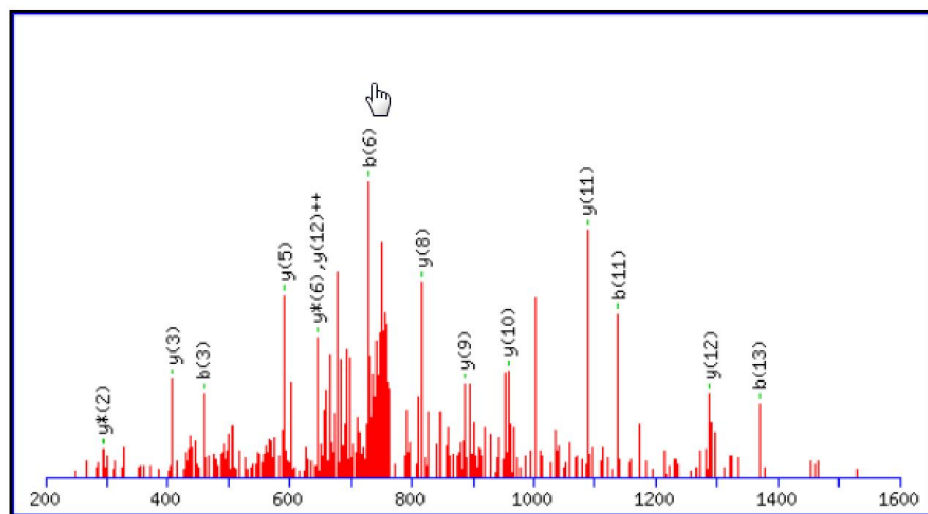
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							20
2	274.2034	137.6053	257.1769	129.0921			K	2484.1781	1242.5927	2467.1515	1234.0794	2466.1675	1233.5874	19
3	403.2460	202.1266	386.2194	193.6134	385.2354	193.1214	E	2282.0190	1141.5132	2264.9925	1132.9999	2264.0085	1132.5079	18
4	550.3144	275.6608	533.2879	267.1476	532.3038	266.6556	F	2152.9764	1076.9919	2135.9499	1068.4786	2134.9659	1067.9866	17
5	651.3621	326.1847	634.3355	317.6714	633.3515	317.1794	T	2005.9080	1003.4577	1988.8815	994.9444	1987.8975	994.4524	16
6	765.4050	383.2061	748.3785	374.6929	747.3945	374.2009	N	1904.8604	952.9338	1887.8338	944.4205	1886.8498	943.9285	15
7	864.4734	432.7404	847.4469	424.2271	846.4629	423.7351	V	1790.8174	895.9124	1773.7909	887.3991	1772.8069	886.9071	14
8	1027.5368	514.2720	1010.5102	505.7587	1009.5262	505.2667	Y	1691.7490	846.3781	1674.7225	837.8649	1673.7384	837.3729	13
9	1140.6208	570.8140	1123.5943	562.3008	1122.6103	561.8088	I	1528.6857	764.8465	1511.6591	756.3332	1510.6751	755.8412	12
10	1324.7420	662.8746	1307.7155	654.3614	1306.7314	653.8694	K	1415.6016	708.3044	1398.5751	699.7912	1397.5911	699.2992	11
11	1438.7849	719.8961	1421.7584	711.3828	1420.7744	710.8908	N	1231.4804	616.2439	1214.4539	607.7306	1213.4699	607.2386	10
12	1585.8533	793.4303	1568.8268	784.9170	1567.8428	784.4250	F	1117.4375	559.2224	1100.4110	550.7091	1099.4270	550.2171	9
13	1642.8748	821.9410	1625.8483	813.4278	1624.8642	812.9358	G	970.3691	485.6882	953.3426	477.1749	952.3585	476.6829	8
14	1771.9174	886.4623	1754.8909	877.9491	1753.9068	877.4571	E	913.3476	457.1775	896.3211	448.6642	895.3371	448.1722	7
15	1886.9443	943.9758	1869.9178	935.4625	1868.9338	934.9705	D	784.3050	392.6562	767.2785	384.1429	766.2945	383.6509	6
16	2022.0070	1011.5071	2004.9805	1002.9939	2003.9964	1002.5019	M	669.2781	335.1427	652.2516	326.6294	651.2675	326.1374	5
17	2137.0340	1069.0206	2120.0074	1060.5073	2119.0234	1060.0153	D	534.2154	267.6114	517.1889	259.0981	516.2049	258.0661	4
18	2252.0609	1126.5341	2235.0343	1118.0208	2234.0503	1117.5288	B	419.1885	210.0979	402.1619	201.5846	401.1779	201.0926	3
19	2381.1035	1191.0554	2364.0769	1182.5421	2363.0929	1182.0501	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
20							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 6623: 1543.858248 from(772.936400,2+) intensity(9178.1299)

Title: File1359 Spectrum7752 scans: 8391

Data file J:\2013-9-14-A549-Prometh-Fr7-ZW.mgf

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

Or, 200 1600 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1543.8573

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

Variable modifications:

K1 : Propionyl (K)

K3 : Propionyl-(13CD3)Methyl (K)

M13 : Label:13C(1)2H(3) (M)

Ions Score: 35 Expect: 0.17

Matches : 14/144 fragment ions using 26 most intense peaks ([help](#))

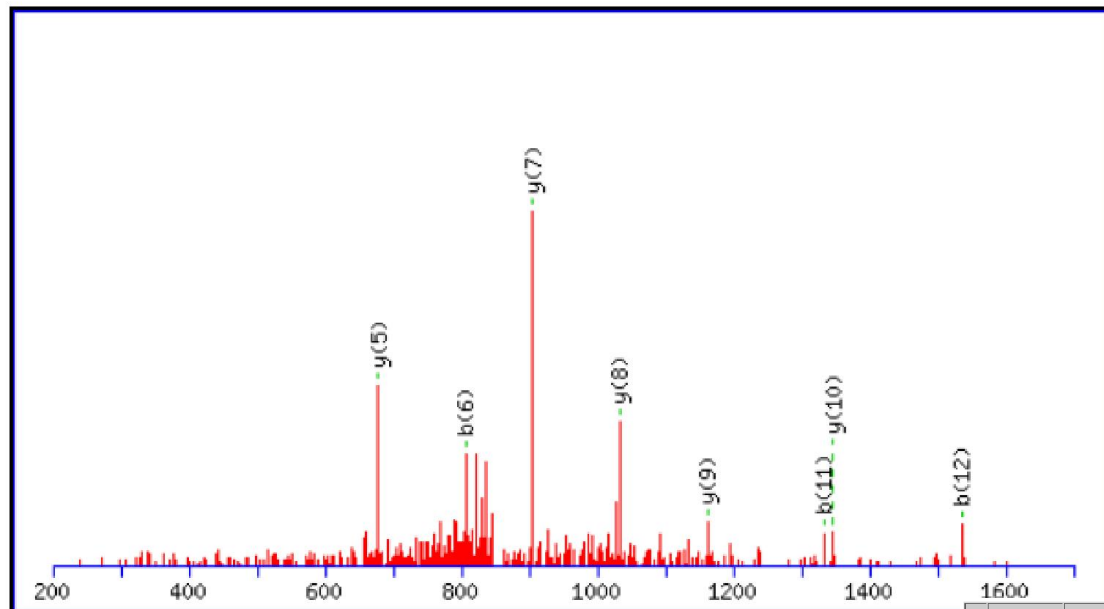
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							14
2	256.1656	128.5864	239.1390	120.0731			A	1360.7435	680.8754	1343.7169	672.3621	1342.7329	671.8701	13
3	458.3246	229.6659	441.2980	221.1527			K	1289.7064	645.3568	1272.6798	636.8435	1271.6958	636.3515	12
4	587.3672	294.1872	570.3406	285.6740	569.3566	285.1819	E	1087.5473	544.2773	1070.5208	535.7640	1069.5368	535.2720	11
5	658.4043	329.7058	641.3777	321.1925	640.3937	320.7005	A	958.5047	479.7560	941.4782	471.2427	940.4942	470.7507	10
6	729.4414	365.2243	712.4149	356.7111	711.4308	356.2191	A	887.4676	444.2375	870.4411	435.7242	869.4571	435.2322	9
7	786.4629	393.7351	769.4363	385.2218	768.4523	384.7298	G	816.4305	408.7189	799.4040	400.2056	798.4200	399.7136	8
8	883.5156	442.2615	866.4891	433.7482	865.5051	433.2562	P	759.4091	380.2082	742.3825	371.6949	741.3985	371.2029	7
9	954.5527	477.7800	937.5262	469.2667	936.5422	468.7747	A	662.3563	331.6818	645.3297	323.1685	644.3457	322.6765	6
10	1051.6055	526.3064	1034.5790	517.7931	1033.5949	517.3011	P	591.3192	296.1632	574.2926	287.6500	573.3086	287.1579	5
11	1138.6375	569.8224	1121.6110	561.3091	1120.6270	560.8171	S	494.2664	247.6368	477.2399	239.1236	476.2558	238.6316	4
12	1235.6903	618.3488	1218.6638	609.8355	1217.6797	609.3435	P	407.2344	204.1208	390.2078	195.6076			3
13	1370.7530	685.8801	1353.7264	677.3668	1352.7424	676.8748	M	310.1816	155.5944	293.1551	147.0812			2
14							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 9203: 1708.859708 from(855.437130,2+) intensity(8724.8760)

Title: File1356 Spectrum12268 scans: 13111

Data file J:\2013-9-14-A549-Prometh-Fr3-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1708.8581

Fixed modifications: Carbamidomethyl (C) (apply to specified resi

Variable modifications:

K4 : Propionyl (K)

K12 : Propionyl-(13CD3)Methyl (K)

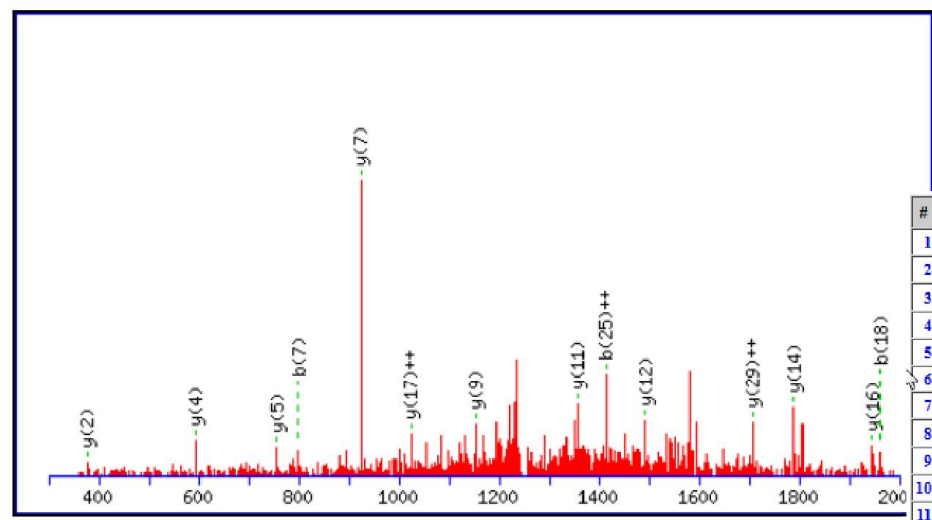
Ions Score: 27 Expect: 0.93

Matches : 8/128 fragment ions using 14 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T							13
2	217.0819	109.0446			199.0713	100.0393	D	1608.8177	804.9125	1591.7911	796.3992	1590.8071	795.9072	12
3	364.1503	182.5788			346.1397	173.5735	F	1493.7907	747.3990	1476.7642	738.8857	1475.7802	738.3937	11
4	548.2715	274.6394	581.2449	266.1261	530.2609	265.6341	K	1346.7223	673.8648	1329.6958	665.3515	1328.7118	664.8595	10
5	677.3141	339.1607	660.2875	330.6474	659.3035	330.1554	E	1162.6012	581.8042	1145.5746	573.2909	1144.5906	572.7989	9
6	806.3567	403.6820	789.3301	395.1687	788.3461	394.6767	E	1033.5586	517.2829	1016.5320	508.7696	1015.5480	508.2776	8
7	903.4094	452.2084	886.3829	443.6951	885.3989	443.2031	P	904.5160	452.7616	887.4894	444.2483	886.5054	443.7563	7
8	1032.4520	516.7297	1015.4255	508.2164	1014.4415	507.7244	E	807.4632	404.2352	790.4367	395.7220	789.4526	395.2300	6
9	1129.5048	565.2560	1112.4782	556.7428	1111.4942	556.2508	P	678.4206	339.7139	661.3941	331.2007			5
10	1186.5263	593.7668	1169.4997	585.2535	1168.5157	584.7615	G	581.3678	291.1876	564.3413	282.6743			4
11	1333.5947	667.3010	1316.5681	658.7877	1315.5841	658.2957	F	524.3464	262.6768	507.3198	254.1636			3
12	1535.7537	768.3805	1518.7271	759.8672	1517.7431	759.3752	K	377.2780	189.1426	360.2514	180.6293			2
13							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 21814: 3751.020402 from(1251.347410,3+) intensity(0.0000)
Title: File1356 Spectrum21313 scans: 22641
Data file J:\2013-9-14-A549-Prometh-Fr3-ZW.mgf

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



Monoisotopic mass of neutral peptide Mr(calc): 3750.0095
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or
Variable modifications:
K12 : Propionyl (K)
K20 : Propionyl (K)
M21 : Label:13C(1)2H(3) (M)
K31 : Propionyl-(13CD3)Methyl (K)
Ions Score: 56 Expect: 0.0014
Matches : 14/346 fragment ions using 17 most intense peaks (help)

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	E							32
2	267.1088	134.0580			249.0982	125.0527	H	3621.9742	1811.4907	3604.9477	1802.9775	3603.9636	1802.4855	31
3	338.1459	169.5766			320.1353	160.5713	A	3484.9153	1742.9613	3467.8887	1734.4480	3466.9047	1733.9560	30
4	451.2300	226.1186			433.2194	217.1133	L	3413.8782	1707.4427	3396.8516	1698.9295	3395.8676	1698.4374	29
5	564.3140	282.6606			546.3035	273.6554	L	3300.7941	1650.9007	3283.7676	1642.3874	3282.7835	1641.8954	28
6	635.3511	318.1792			617.3406	309.1739	A	3187.7101	1594.3587	3170.6835	1585.8454	3169.6995	1585.3534	27
7	798.4145	399.7109			780.4039	390.7056	Y	3116.6729	1558.8401	3099.6464	1550.3268	3098.6624	1549.8348	26
8	899.4621	450.2347			881.4516	441.2294	T	2953.6096	1477.3084	2936.5831	1468.7952	2935.5990	1468.3032	25
9	1012.5462	506.7767			994.5356	497.7715	L	2852.5619	1426.7846	2835.5354	1418.2713	2834.5514	1417.7793	24
10	1069.5677	535.2875			1051.5571	526.2822	G	2739.4779	1370.2426	2722.4513	1361.7293	2721.4673	1361.2373	23
11	1168.6361	584.8217			1150.6255	575.8164	V	2682.4564	1341.7318	2665.4299	1333.2186	2664.4458	1332.7266	22
12	1352.7573	676.8823	1335.7307	668.3690	1334.7467	667.8770	K	2583.3880	1292.1976	2566.3614	1283.6844	2565.3774	1283.1923	21
13	1480.8158	740.9116	1463.7893	732.3983	1462.8053	731.9063	Q	2399.2668	1200.1370	2382.2403	1191.6238	2381.2562	1191.1318	20
14	1593.8999	797.4536	1576.8734	788.9403	1575.8893	788.4483	L	2271.2082	1136.1078	2254.1817	1127.5945	2253.1977	1127.1025	19
15	1706.9840	853.9956	1689.9574	845.4823	1688.9734	844.9903	I	2158.1242	1079.5657	2141.0976	1071.0524	2140.1136	1070.5604	18
16	1806.0524	903.5298	1789.0258	895.0166	1788.0418	894.5245	V	2045.0401	1023.0237	2028.0136	1014.5104	2027.0295	1014.0184	17
17	1863.0738	932.0406	1846.0473	923.5273	1845.0633	923.0353	G	1945.9717	973.4895	1928.9451	964.9762	1927.9611	964.4842	16
18	1962.1423	981.5748	1945.1157	973.0615	1944.1317	972.5695	V	1888.9502	944.9788	1871.9237	936.4655	1870.9397	935.9735	15
19	2076.1852	1038.5962	2059.1586	1030.0830	2058.1746	1029.5910	N	1789.8818	895.4445	1772.8533	886.9313	1771.8712	886.4393	14
20	2260.3064	1130.6568	2243.2798	1122.1435	2242.2958	1121.6515	K	1675.8389	838.4231	1658.8123	829.9098	1657.8283	829.4178	13
21	2395.3690	1198.1882	2378.3425	1189.6749	2377.3385	1189.1829	M	1491.7177	746.3625	1474.6912	737.8492	1473.7071	737.3572	12
22	2510.3960	1255.7016	2493.3694	1247.1884	2492.3854	1246.6963	D	1356.6550	678.8312	1339.6285	670.3179	1338.6445	669.8259	11
23	2597.4280	1299.2176	2580.4015	1290.7044	2579.4174	1290.2124	S	1241.6281	621.3177	1224.6015	612.8044	1223.6175	612.3124	10
24	2698.4757	1349.7415	2681.4491	1341.2282	2680.4651	1340.7362	T	1154.5961	577.8017	1137.5695	569.2884	1136.5855	568.7964	9
25	2827.5183	1414.2628	2810.4917	1405.7495	2809.5077	1405.2575	E	1053.5484	527.2778	1036.5218	518.7646	1035.5378	518.2725	8
26	2924.5710	1462.7892	2907.5445	1454.2759	2906.5605	1453.7839	P	924.5058	462.7565	907.4792	454.2433	906.4952	453.7513	7
27	2995.6082	1498.3077	2978.5816	1489.7944	2977.5976	1489.3024	A	827.4530	414.2302	810.4265	405.7169	809.4425	405.2249	6
28	3158.6715	1579.8394	3141.6449	1571.3261	3140.6609	1570.8341	Y	756.4159	378.7116	739.3894	370.1983	738.4054	369.7063	5
29	3245.7035	1623.3554	3228.6770	1614.8421	3227.6930	1614.3501	S	593.3526	297.1799	576.3260	288.6667	575.3420	288.1746	4
30	3374.7461	1687.8767	3357.7196	1679.3634	3356.7355	1678.8714	E	506.3206	253.6639	489.2940	245.1506	488.3100	244.6586	3
31	3576.9051	1788.9562	3559.8786	1780.4429	3558.8946	1779.9509	K	377.2780	189.1426	360.2514	180.6293			2
32							R	175.1190	88.0631	158.0924	79.5498			1

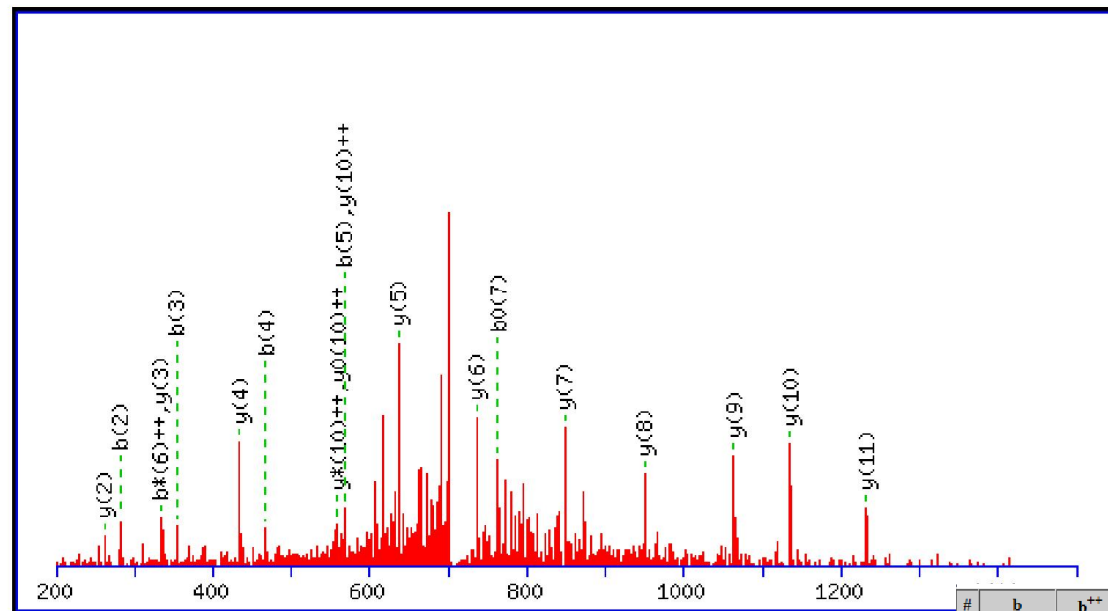
Found in **Q9Y6X9**, MORC family CW-type zinc finger protein 2 OS=Homo sapiens GN=MORC2 PE=1 SV=2

Match to Query 6421: 1414.842128 from(708.428340,2+) intensity(52117.8945)

Title: File1347 Spectrum8753 scans: 9724

Data file J:\2013-9-14-A549-Prometh-Fr15-ZW.mgf

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

Or, 200 to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1414.8416

Fixed modifications: Carbamidomethyl (C) (apply to specific)

Variable modifications:

K1 : Propionyl (K)

K8 : Propionyl-(13CD3)Methyl (K)

Ions Score: 80 Expect: 3.4e-006

Matches : 19/122 fragment ions using 26 most intense peaks

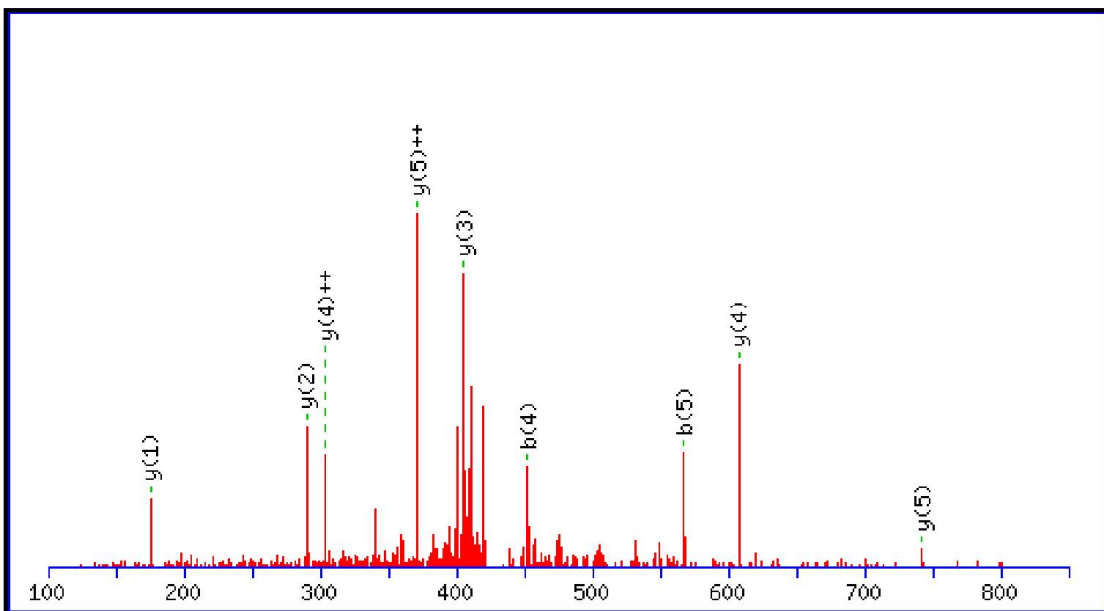
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							12
2	282.1812	141.5942	265.1547	133.0810			P	1231.7277	616.3675	1214.7012	607.8542	1213.7172	607.3622	11
3	353.2183	177.1128	336.1918	168.5995			A	1134.6750	567.8411	1117.6484	559.3279	1116.6644	558.8358	10
4	467.2613	234.1343	450.2347	225.6210			N	1063.6379	532.3226	1046.6113	523.8093	1045.6273	523.3173	9
5	568.3089	284.6581	551.2824	276.1448	550.2984	275.6528	T	949.5949	475.3011	932.5684	466.7878	931.5844	466.2958	8
6	681.3930	341.2001	664.3665	332.6869	663.3824	332.1949	L	848.5473	424.7773	831.5207	416.2640	830.5367	415.7720	7
7	780.4614	390.7343	763.4349	382.2211	762.4509	381.7291	V	735.4632	368.2352	718.4367	359.7220	717.4526	359.2300	6
8	982.6204	491.8139	965.5939	483.3006	964.6099	482.8086	K	636.3948	318.7010	619.3682	310.1878	618.3842	309.6957	5
9	1083.6681	542.3377	1066.6416	533.8244	1065.6575	533.3324	T	434.2358	217.6215	417.2092	209.1082	416.2252	208.6162	4
10	1154.7052	577.8562	1137.6787	569.3430	1136.6947	568.8510	A	333.1881	167.0977	316.1615	158.5844	315.1775	158.0924	3
11	1241.7372	621.3723	1224.7107	612.8590	1223.7267	612.3670	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
12							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 940: 855.429968 from(428.722260,2+) intensity(39575.7109)

Title: File1344 Spectrum2396 scans: 3288

Data file I:\2013-9-14-A549-Prometh-Fr12-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 855.4302

Fixed modifications: Carbamidomethyl (C) (apply to specified)

Variable modifications:

M3 : Label:13C(1)2H(3) (M)

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 37 Expect: 0.028

Matches : 9/56 fragment ions using 14 most intense peaks

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							7
2	115.0502	58.0287					G	799.4160	400.2116	782.3894	391.6984	781.4054	391.2063	6
3	250.1129	125.5601					M	742.3945	371.7009	725.3680	363.1876	724.3840	362.6956	5
4	452.2719	226.6396	435.2453	218.1263			K	607.3319	304.1696	590.3053	295.6563	589.3213	295.1643	4
5	567.2988	284.1531	550.2723	275.6398	549.2883	275.1478	D	405.1728	203.0901	388.1463	194.5768	387.1623	194.0848	3
6	682.3258	341.6665	665.2992	333.1533	664.3152	332.6612	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
7							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **AASRKPPR**

Found in **G8JLB2**, Xaa-Pro aminopeptidase 1 OS=Homo sapiens GN=XPNPEP1 PE=2 SV=1

Match to Query 3153: 997.594508 from(499.804530,2+) intensity(10987.7412)

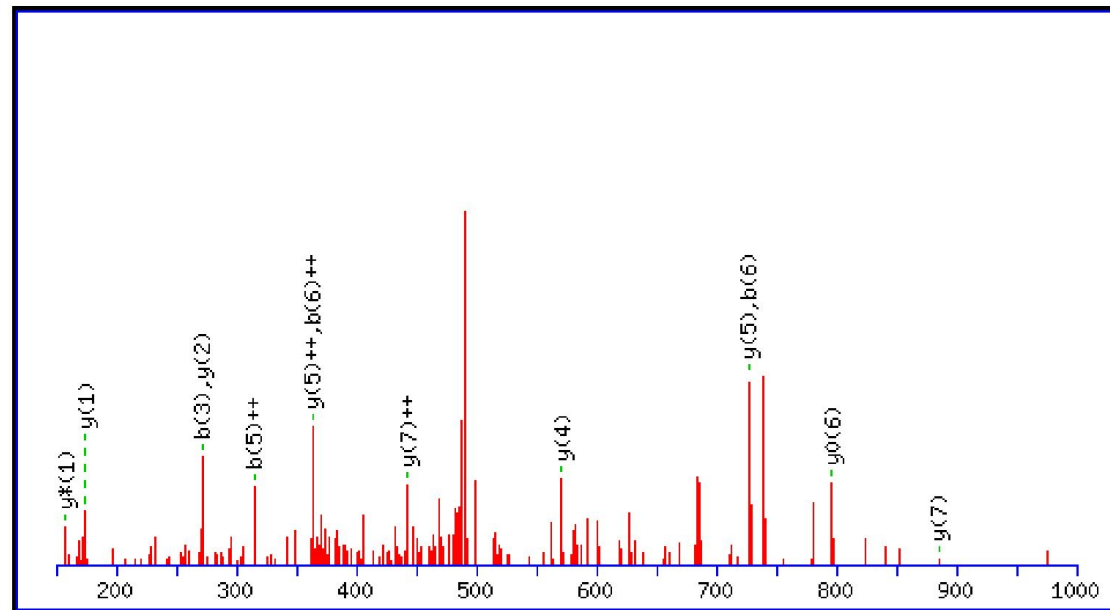
Title: File2136 Spectrum471 scans: 1084

Data file I:\2013-12-03-SIMM7721-FR1-10-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 997.5941

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

Variable modifications:

N-term : Acetyl (Protein N-term)

K5 : Propionyl-(13CD3)Methyl (K)

Ions Score: 34 **Expect:** 0.11

Matches : 13/64 fragment ions using 16 most intense peaks

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0550	57.5311					A							8
2	185.0921	93.0497					A	885.5537	443.2805	868.5272	434.7672	867.5432	434.2752	7
3	272.1241	136.5657			254.1135	127.5604	S	814.5166	407.7620	797.4901	399.2487	796.5061	398.7567	6
4	428.2252	214.6162	411.1987	206.1030	410.2146	205.6110	R	727.4846	364.2459	710.4581	355.7327			5
5	630.3842	315.6957	613.3577	307.1825	612.3737	306.6905	K	571.3835	286.1954	554.3569	277.6821			4
6	727.4370	364.2221	710.4104	355.7089	709.4264	355.2168	P	369.2245	185.1159	352.1979	176.6026			3
7	824.4897	412.7485	807.4632	404.2352	806.4792	403.7432	P	372.1717	136.5895	255.1452	128.0762			2
8							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **QSGNTEQKSKSKQHR**

Found in **A9IYQ1**, Sister chromatid cohesion protein PDS5 homolog B (Fragment) OS=Homo sapiens GN=PDS5B PE=2 SV=1 **332**

Match to Query 12808: 1927.997652 from(643.673160, 3+) intensity(30005.7617)

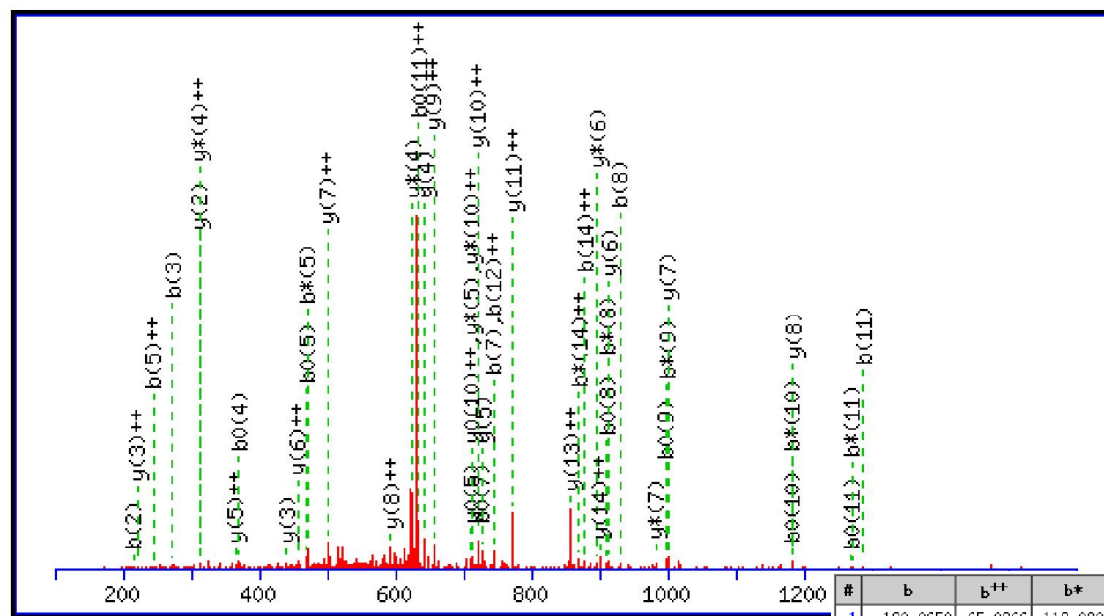
Title: File2136 Spectrum3681 scans: 4551

Data file I:\2013-12-03-SIMM7721-FR1-10-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1927.

Fixed modifications: Carbamidomethyl (C) (apply to speci

Variable modifications:

K8 : Propionyl (K)

K10 : Propionyl (K)

K12 : Propionyl-(13CD3)Methyl (K)

Ions Score: 34 Expect: 0.25

Matches : 47/158 fragment ions using 103 most intense pea

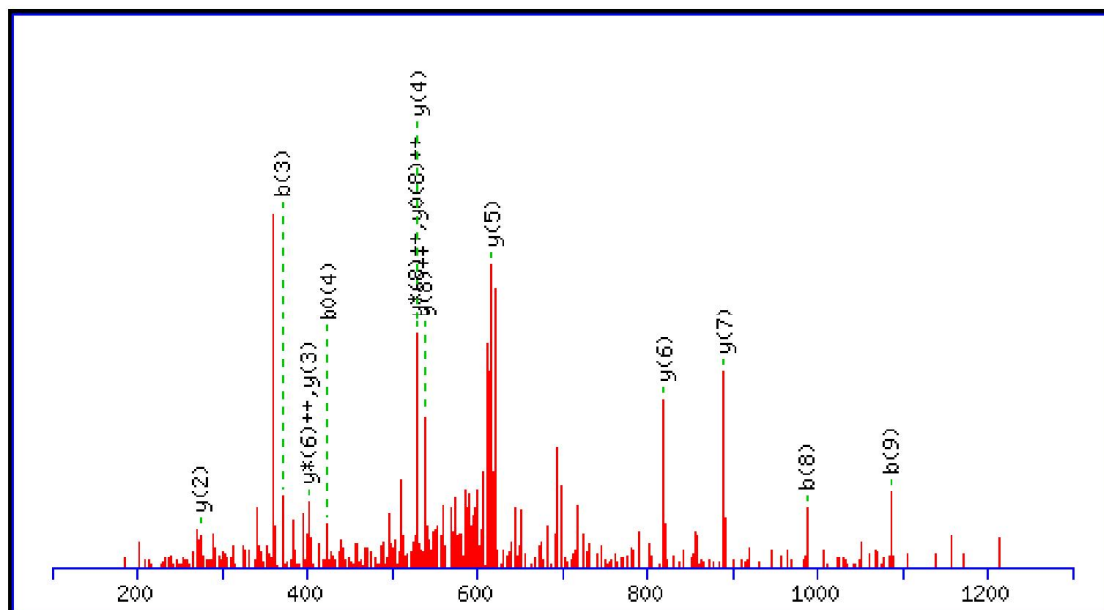
#	b	b ⁺⁺	b*	b ^{***}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	129.0659	65.0366	112.0393	56.5233			Q							15
2	216.0979	108.5526	199.0713	100.0393	198.0873	99.5473	S	1800.9471	900.9772	1783.9206	892.4639	1782.9366	891.9719	14
3	273.1193	137.0633	256.0928	128.5500	255.1088	128.0580	G	1713.9151	857.4612	1696.8886	848.9479	1695.9045	848.4559	13
4	387.1623	194.0848	370.1857	185.5715	369.1517	185.0795	N	1656.8936	828.9505	1639.8671	820.4372	1638.8831	819.9452	12
5	488.2100	244.6086	471.1834	236.0953	470.1994	235.6033	T	1542.8507	771.9290	1525.8242	763.4157	1524.8402	762.9237	11
6	617.2525	309.1299	600.2260	300.6166	599.2420	300.1246	E	1441.8030	721.4052	1424.7765	712.8919	1423.7925	712.3999	10
7	745.3111	373.1592	728.2846	364.6459	727.3006	364.1539	Q	1312.7604	656.8839	1295.7339	648.3706	1294.7499	647.8786	9
8	929.4323	465.2198	912.4058	456.7065	911.4217	456.2145	K	1184.7019	592.8546	1167.6753	584.3413	1166.6913	583.8493	8
9	1016.4643	508.7358	999.4378	500.2225	998.4538	499.7305	S	1000.5807	500.7940	983.5541	492.2807	982.5701	491.7887	7
10	1200.5855	600.7964	1183.5590	592.2831	1182.5749	591.7911	K	913.5487	457.2780	896.5221	448.7647	895.5381	448.2727	6
11	1287.6175	644.3124	1270.5910	635.7991	1269.6070	635.8071	S	729.4275	365.2174	712.4009	356.7041	711.4169	356.2121	5
12	1489.7765	745.3919	1472.7500	736.8786	1471.7660	736.3866	K	642.3955	321.7014	625.3689	313.1881			4
13	1617.8351	809.4212	1600.8086	800.9079	1599.8246	800.4159	Q	440.2364	220.6219	423.2099	212.1086			3
14	1754.8940	877.9507	1737.8675	869.4374	1736.8835	868.9454	H	312.1779	156.5926	295.1513	148.0793			2
15							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 6763: 1259.711648 from(630.863100, 2+) intensity(9468.4912)

Title: File2136 Spectrum4390 scans: 5310

Data file I:\2013-12-03-SIMM7721-FR1-10-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1259.7106**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K3** : Propionyl (K)**K5** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 24 **Expect:** 2**Matches** : 14/94 fragment ions using 33 most intense peaks

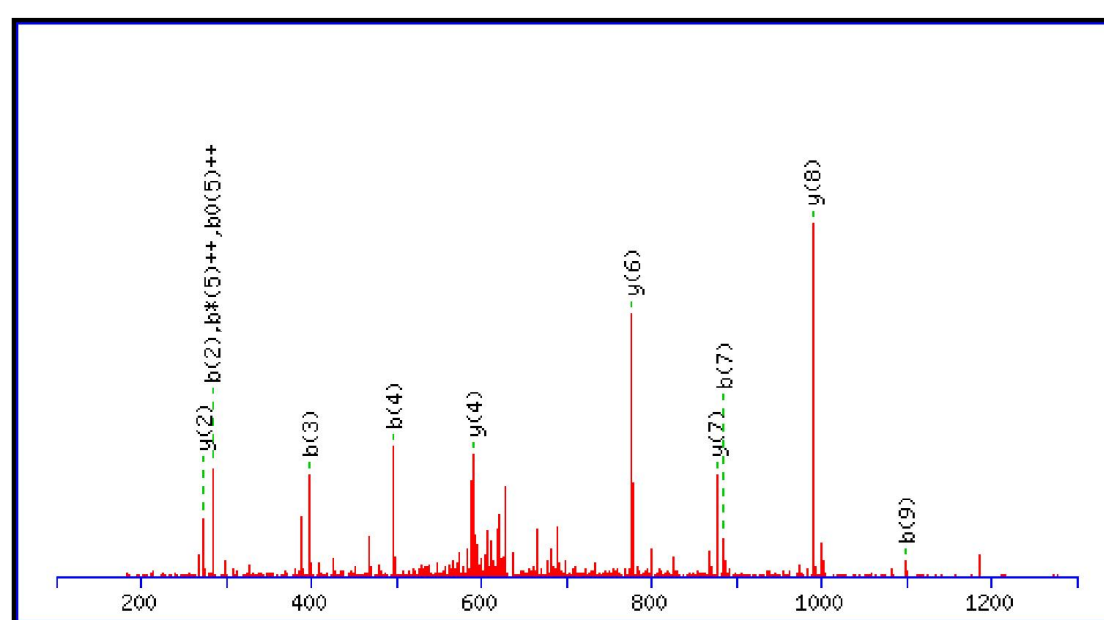
#	b	b ⁺⁺	b*	b ⁺⁺ *	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺ *	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							10
2	187.0713	94.0393			169.0608	85.0340	D	1189.6808	595.3440	1172.6542	586.8308	1171.6702	586.3388	9
3	371.1925	186.0999	354.1660	177.5866	353.1819	177.0946	K	1074.6539	537.8306	1057.6273	529.3173	1056.6433	528.8253	8
4	442.2296	221.6185	425.2031	213.1052	424.2191	212.6132	A	890.5327	445.7700	873.5061	437.2567	872.5221	436.7647	7
5	644.3886	322.6980	627.3621	314.1847	626.3781	313.6927	K	619.4956	410.2514	802.4690	401.7381	801.4850	401.2461	6
6	731.4207	366.2140	714.3941	357.7007	713.4101	357.2087	S	617.3366	309.1719	600.3100	300.6586	599.3260	300.1666	5
7	859.4792	430.2433	842.4527	421.7300	841.4687	421.2380	Q	530.3045	265.6559	513.2780	257.1426			4
8	987.5378	494.2725	970.5113	485.7593	969.5273	485.2673	Q	402.2459	201.6266	385.2194	193.1133			3
9	1086.6062	543.8068	1069.5797	535.2935	1068.5957	534.8015	V	274.1874	137.5973	257.1608	129.0840			2
10							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 6289: 1272.766208 from(637.390380,2+) intensity(306396.1563)

Title: File2138 Spectrum9095 scans: 10259

Data file I:\2013-12-03-SIMM7721-FR1-11-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1272.7674****Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K2** : Propionyl (K)**K7** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 54 **Expect:** 0.0011**Matches** : 12/94 fragment ions using 11 most intense peaks

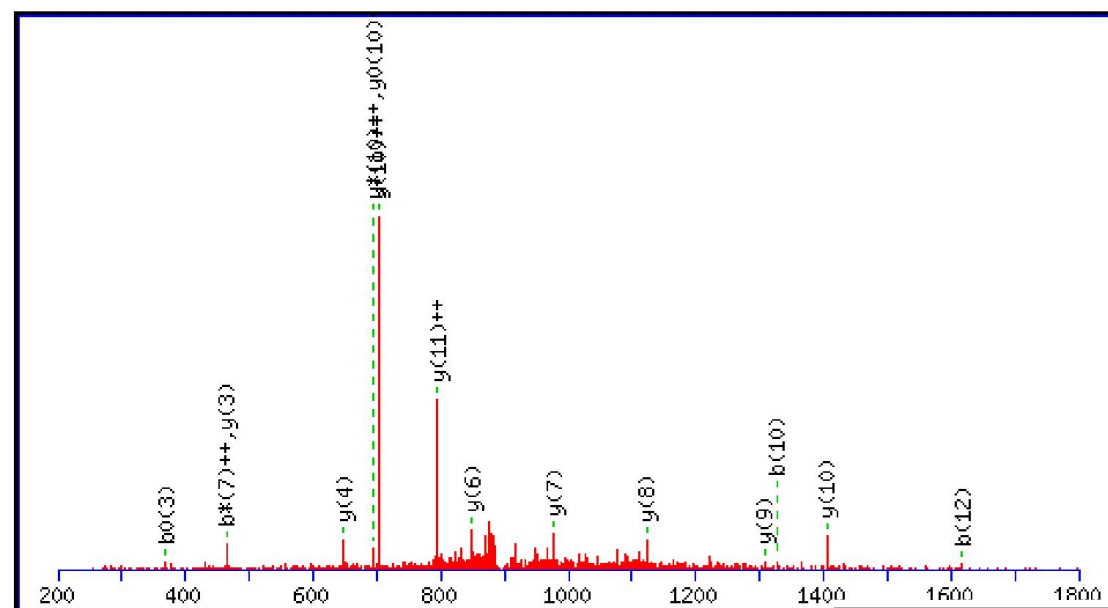
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							10
2	284.1969	142.6021	267.1703	134.0888			K	1174.7063	587.8568	1157.6797	579.3435	1156.6957	578.8515	9
3	398.2398	199.6235	381.2132	191.1103			N	990.5851	495.7962	973.5586	487.2829	972.5745	486.7909	8
4	497.3082	249.1577	480.2817	240.6445			V	876.5422	438.7747	859.5156	430.2615	858.5316	429.7694	7
5	584.3402	292.6738	567.3137	284.1605	566.3297	283.6685	S	777.4738	389.2405	760.4472	380.7272	759.4632	380.2352	6
6	683.4087	342.2080	666.3821	333.6947	665.3981	333.2027	V	690.4417	345.7245	673.4152	337.2112	672.4312	336.7192	5
7	885.5677	443.2875	868.5411	434.7742	867.5571	434.2822	K	591.3733	296.1903	574.3468	287.6770	573.3628	287.1850	4
8	1000.5946	500.8009	983.5681	492.2877	982.5840	491.7957	D	389.2143	195.1108	372.1878	186.5975	371.2037	186.1055	3
9	1099.6630	550.3351	1082.6365	541.8219	1081.6525	541.3299	V	274.1874	137.5973	257.1608	129.0840			2
10							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 13911: 1790.038428 from(896.026490,2+) intensity(62980.0117)

Title: File2138 Spectrum17295 scans: 18827

Data file I:\2013-12-03-SIMM7721-FR1-11-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1790.****Fixed modifications:** Carbamidomethyl (C) (apply to spec:**Variable modifications:****K5** : Propionyl (K)**K10** : Propionyl (K)**K12** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 32 **Expect:** 0.23**Matches** : 15/130 fragment ions using 31 most intense peak

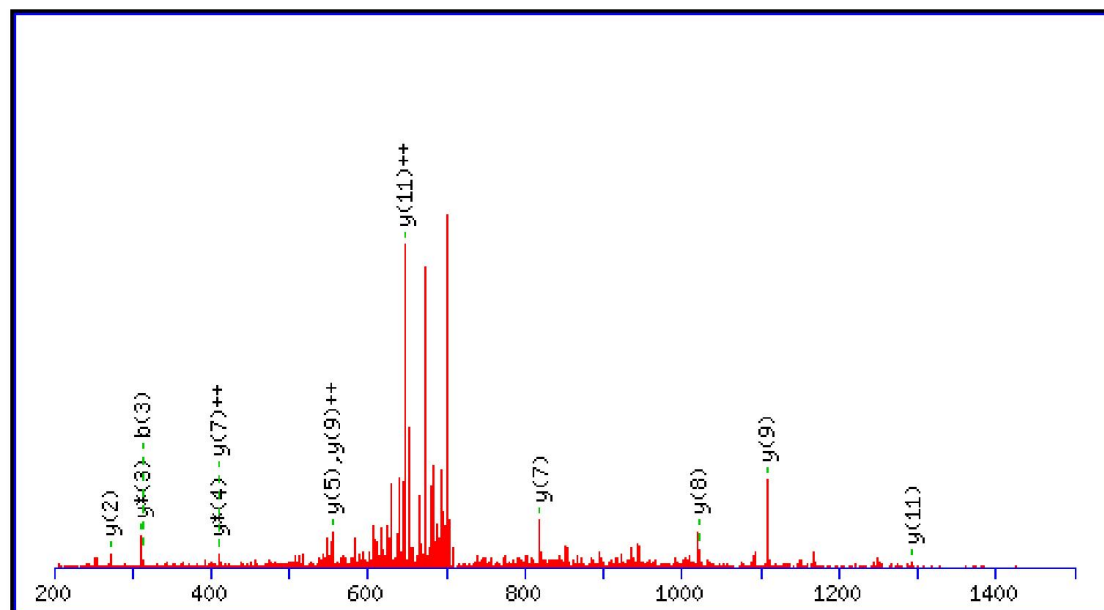
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							13
2	201.1234	101.0653			183.1128	92.0600	S	1677.9595	839.4834	1660.9330	830.9701	1659.9490	830.4781	12
3	387.2027	194.1050			369.1921	185.0997	W	1590.9275	795.9674	1573.9010	787.4541	1572.9169	786.9621	11
4	484.2554	242.6314			466.2449	233.6261	P	1404.8483	702.9277	1387.8216	694.4145	1386.8376	693.9225	10
5	668.3766	334.6919	651.3501	326.1787	650.3661	325.6867	K	1307.7954	654.4014	1290.7689	645.8881	1289.7849	645.3961	9
6	815.4450	408.2262	798.4185	399.7129	797.4345	399.2209	F	1123.6743	562.3408	1106.6477	553.8275	1105.6637	553.3355	8
7	943.5036	472.2554	926.4771	463.7422	925.4930	463.2502	Q	976.6058	488.8066	959.5793	480.2933	958.5953	479.8013	7
8	1030.5356	515.7715	1013.5091	507.2582	1012.5251	506.7662	S	848.5473	424.7773	831.5207	416.2640	830.5567	415.7720	6
9	1143.6197	572.3135	1126.5932	563.8002	1125.6091	563.3082	I	761.5152	381.2613	744.4887	372.7480	743.5047	372.2560	5
10	1327.7409	664.3741	1310.7143	655.8608	1309.7303	655.3688	K	648.4312	324.7192	631.4046	316.2059	630.4206	315.7139	4
11	1414.7729	707.8901	1397.7464	699.3768	1396.7623	698.8848	S	464.3100	232.6586	447.2834	224.1454	446.2994	223.6534	3
12	1616.9319	808.9696	1599.9054	800.4563	1598.9214	799.9643	K	377.2780	189.1426	360.2514	180.6293			2
13							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 7979: 1419.715188 from(710.864870, 2+) intensity(35569.4453)

Title: File2138 Spectrum8989 scans: 10148

Data file I:\2013-12-03-SIMM7721-FR1-11-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1419.****Fixed modifications:** Carbamidomethyl (C) (apply to speci**Variable modifications:****K5** : Propionyl-(13CD3)Methyl (K)**M6** : Label:13C(1)2H(3) (M)**Ions Score: 27 Expect: 0.62****Matches : 12/120 fragment ions using 24 most intense peak:**

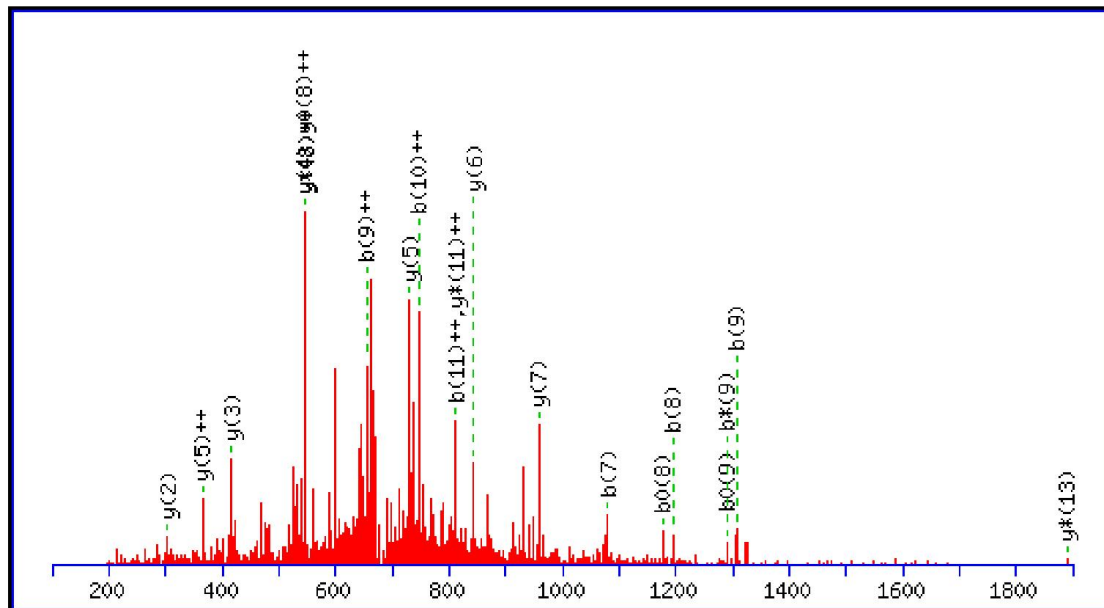
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	129.0659	65.0366	112.0393	56.5233			Q							11
2	226.1186	113.5629	209.0921	105.0497			P	1292.6696	646.8385	1275.6431	638.3252	1274.6591	637.8332	12
3	313.1506	157.0790	296.1241	148.5657	295.1401	148.0737	S	1195.6169	598.3121	1178.5903	589.7988	1177.6063	589.3068	10
4	400.1827	200.5950	383.1561	192.0817	382.1721	191.5897	S	1108.5848	554.7961	1091.5583	546.2828	1090.5743	545.7908	9
5	602.3417	301.6745	585.3151	293.1612	584.3311	292.6692	K	1021.5528	511.2800	1004.5263	502.7668	1003.5422	502.2743	8
6	737.4044	369.2058	720.3778	360.6925	719.3938	360.2005	K	819.3938	410.2005	802.3673	401.6873	801.3832	401.1953	7
7	866.4470	433.7271	849.4204	425.2138	848.4364	424.7218	E	684.3311	342.6692	667.3046	334.1559	666.3206	333.6639	6
8	995.4895	498.2484	978.4630	489.7351	977.4790	489.2431	E	555.2885	278.1479	538.2620	269.6346	537.2780	269.1426	5
9	1092.5423	546.7748	1075.5158	538.2615	1074.5317	537.7695	P	428.2459	213.6266	409.2194	205.1133			4
10	1149.5638	575.2855	1132.5372	566.7722	1131.5532	566.2802	G	329.1932	165.1002	312.1666	156.5870			3
11	1246.6165	623.8119	1229.5900	615.2936	1228.6060	614.8066	P	272.1717	136.5895	255.1452	123.0762			2
12							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 16507: 2036.032602 from(679.684810, 3+) intensity(31246.3711)

Title: File2138 Spectrum11727 scans: 13000

Data file I:\2013-12-03-SIMM7721-FR1-11-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 2036.

Fixed modifications: Carbamidomethyl (C) (apply to speci

Variable modifications:

K4 : Propionyl-(13CD3)Methyl (K)**M7** : Label:13C(1)2H(3)+Oxidation (M)**K10** : Propionyl (K)

Ions Score: 24 Expect: 2.5

Matches : 20/148 fragment ions using 31 most intense peaks

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0593	56.5233	E							14
2	44.0928	122.5500	227.0662	114.0368	226.0822	113.5448	N	1907.9825	954.4949	1890.9560	945.9816	1889.9720	945.4896	13
3	400.1939	200.6006	383.1674	192.0873	382.1833	191.5953	R	1793.9396	897.4734	1776.9131	888.9602	1775.9290	888.4682	12
4	602.3529	301.6801	585.3264	293.1668	584.3424	292.6748	K	1637.8385	819.4229	1620.8119	810.9096	1619.8279	810.4176	11
5	765.4162	383.2118	748.3897	374.6985	747.4057	374.2065	Y	1435.6795	718.3434	1418.6529	709.8301	1417.6689	709.3381	10
6	928.4796	464.7434	911.4530	456.2302	910.4690	455.7381	Y	1272.6161	636.8117	1255.5896	628.2984	1254.6056	627.8064	9
7	1079.5372	540.2722	1062.5106	531.7589	1061.5266	531.2669	N	1109.5528	555.2800	1092.5263	546.7668	1091.5423	546.2748	8
8	1194.5641	597.7857	1177.5376	589.2724	1176.5535	588.7804	D	958.4952	479.7513	941.4687	471.2380	940.4847	470.7460	7
9	1307.6482	654.3277	1290.6216	645.8144	1289.6376	645.3224	L	843.4683	422.2378	826.4417	413.7245	825.4577	413.2325	6
10	1491.7693	746.3883	1474.7428	737.8750	1473.7588	737.3830	K	730.3842	365.6958	713.3577	357.1825	712.3737	356.6905	5
11	1620.8119	810.9096	1603.7854	802.3963	1602.8014	801.9043	E	546.2631	273.6352	529.2365	265.1219	528.2525	264.6299	4
12	1734.8549	867.9311	1717.8283	859.4178	1716.8443	858.9258	K	417.2205	209.1139	400.1939	200.6006			3
13	1862.9134	931.9604	1845.8869	923.4471	1844.9029	922.9551	Q	303.1775	152.0924	286.1510	143.5791			2
14							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **AKGLKDIR**

Found in **D6RA70**, Probable ATP-dependent RNA helicase YTHDC2 OS=Homo sapiens GN=YTHDC2 PE=2 SV=1

Match to Query 3450: 1029.645108 from(515.829830, 2+) intensity(41989.7031)

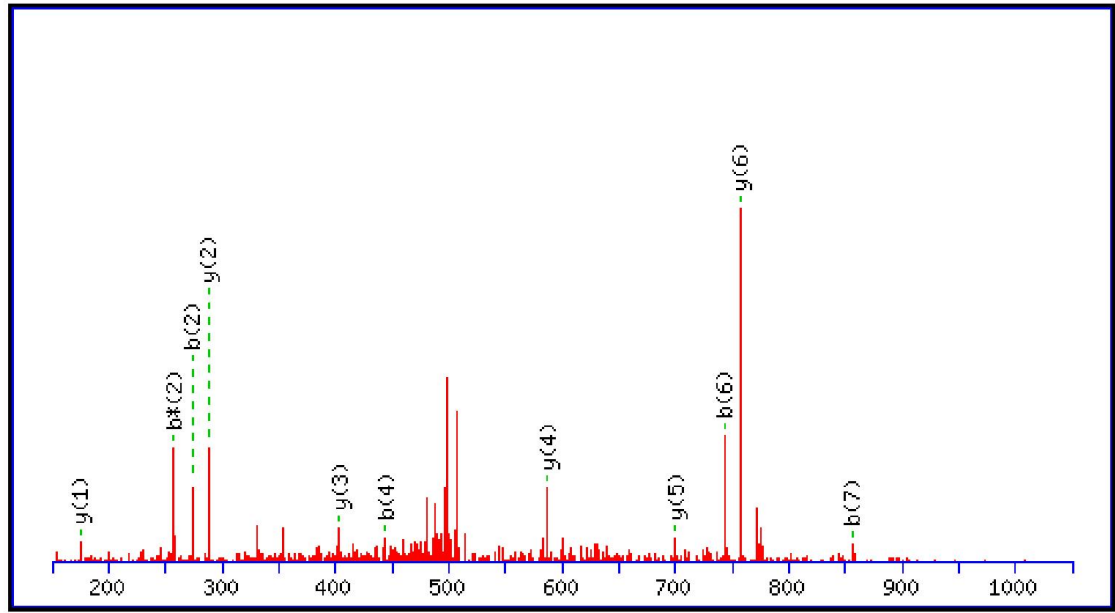
Title: File2138 Spectrum10209 scans: 11419

Data file I:\2013-12-03-SIMM7721-FR1-11-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(c#

Fixed modifications: Carbamidomethyl (C) (ap

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K5 : Propionyl (K)

Ions Score: 34 **Expect:** 0.064

Matches : 11/68 fragment ions using 26 most i

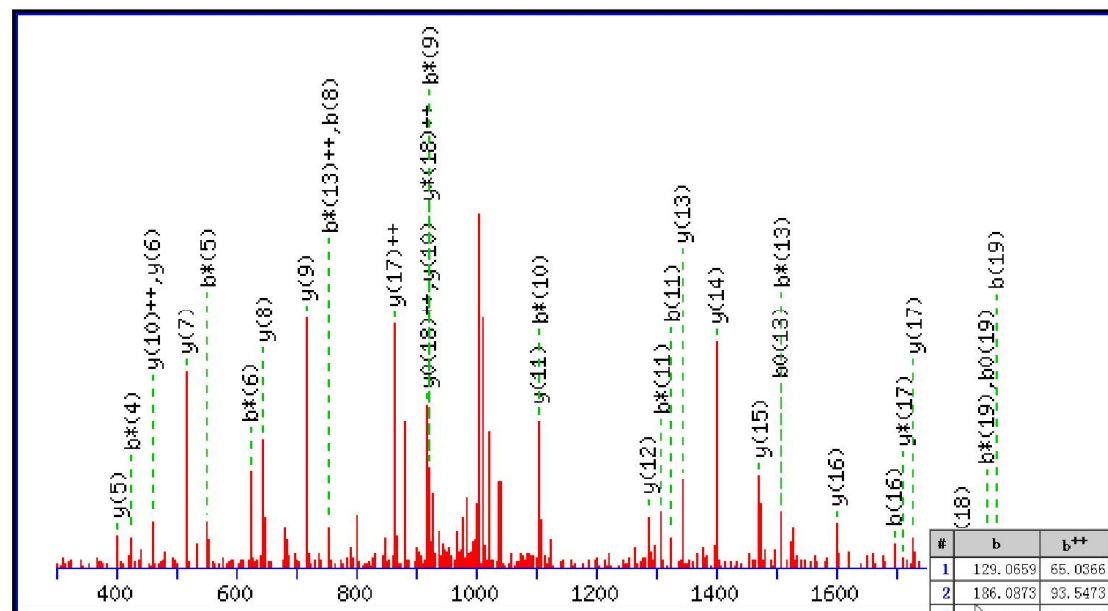
#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	723.0444	36.5258					A							8
2	274.2034	137.6053	257.1769	129.0921			K	959.6157	480.3115	942.5891	471.7982	941.6051	471.3062	7
3	331.2249	166.1161	314.1983	157.6028			G	757.4567	379.2320	740.4301	370.7187	739.4461	370.2267	6
4	444.3089	222.6581	427.2824	214.1448			L	700.4352	350.7212	683.4087	342.2080	682.4246	341.7160	5
5	628.4301	314.7187	611.4036	306.2054			K	587.3511	294.1792	570.3246	285.6659	569.3406	285.1739	4
6	743.4571	372.2322	726.4305	363.7189	725.4465	363.2269	D	403.2300	202.1186	386.2034	193.6053	385.2194	193.1133	3
7	856.5411	428.7742	839.5146	420.2609	838.5306	419.7689	I	288.2030	144.6051	271.1765	136.0919			2
8							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 13876: 2041.058208 from(1021.536380, 2+) intensity(36121.1484)

Title: File2127 Spectrum4467 scans: 5468

Data file I:\2013-12-03-SIMM7721-FR1-7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 2041.0574**Fixed modifications:** Carbamidomethyl (C) (apply to specified r**Variable modifications:****K9** : Propionyl (K)**K10** : Propionyl (K)**K11** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 88 **Expect:** 1e-006**Matches** : 34/190 fragment ions using 51 most intense peaks ([he](#)

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	129.0659	65.0366	112.0393	56.5233			Q							20
2	186.0873	93.5473	169.0608	85.0340			G	1914.0061	957.5067	1896.9795	948.9934	1895.9955	948.5014	19
3	444.1459	157.5766	297.1193	149.0633			Q	1856.9846	928.9959	1839.9580	920.4827	1838.9740	919.9906	18
4	442.2045	221.6059	425.1779	213.0926			Q	1728.9260	864.9666	1711.8995	856.4534	1710.9154	855.9614	17
5	570.2631	285.6352	553.2365	277.1219			Q	1600.8674	800.9374	1583.8409	792.4241	1582.8569	791.9321	16
6	641.3002	321.1537	624.2736	312.6404			A	1472.8089	736.9081	1455.7823	728.3945	1454.7983	727.9028	15
7	698.3216	349.6645	681.2951	341.1512			G	1401.7717	701.3895	1384.7452	692.8762	1383.7612	692.3842	14
8	755.3431	378.1752	738.3165	369.6619			C	1344.7503	672.8788	1327.7237	664.3655	1326.7397	663.8735	13
9	939.4643	470.2358	922.4377	461.7225			K	1287.7288	644.3620	1270.7023	635.8548	1269.7182	635.3628	12
10	1123.5855	562.2964	1106.5589	553.7831			K	1103.6076	552.3075	1086.5811	543.7942	1085.5971	543.3022	11
11	1325.7445	663.3759	1308.7179	654.8626			K	919.4865	460.2469	902.4599	451.7336	901.4759	451.2416	10
12	1396.7816	698.8944	1379.7550	690.3812			A	717.3274	359.1674	700.3009	350.6541	699.3169	350.1621	9
13	1525.8242	763.4157	1508.7976	754.9024	1507.8136	754.4104	E	646.2903	323.6488	629.2638	315.1355	628.2798	314.6435	8
14	1582.8456	791.9265	1565.8191	783.4132	1564.8351	782.9212	G	517.2477	259.1275	500.2212	250.6142			7
15	1639.8671	820.4372	1622.8405	811.9239	1621.8565	811.4319	G	460.2263	230.6168	443.1997	222.1035			6
16	1696.8886	848.9479	1679.8620	840.4346	1678.8780	839.9426	G	403.2048	202.1060	386.1783	193.5928			5
17	1753.9100	877.4587	1736.8835	868.9454	1735.8995	868.4534	G	346.1833	173.5953	329.1568	165.0820			4
18	1810.9315	905.9694	1793.9049	897.4561	1792.9209	896.9641	G	289.1619	145.0846	272.1353	136.5713			3
19	1867.9530	934.4801	1850.9264	925.9668	1849.9424	925.4748	G	232.1404	116.5738	215.1139	108.0608			2
20	175.1190	88.0631	158.0924	79.5498			R							

MS/MS Fragmentation of **AKGASGVEPGR**

Found in **F8VP44**, Microspherule protein 1 (Fragment) OS=Homo sapiens GN=MCRS1 PE=2 SV=1

Match to Query 4575: 1101.603368 from(551.808960, 2+) intensity(11967.7373)

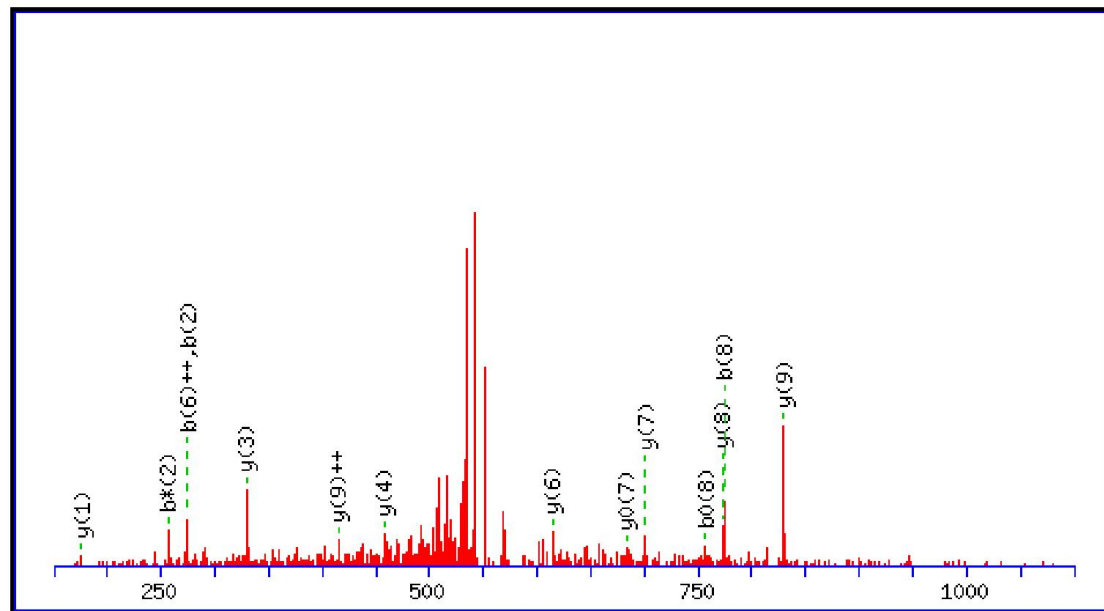
Title: File2127 Spectrum3538 scans: 4461

Data file I:\2013-12-03-SIMM7721-FR1-7-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1101.

Fixed modifications: Carbamidomethyl (C) (apply to speci

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

Ions Score: 40 Expect: 0.045

Matches : 14/104 fragment ions using 29 most intense peak:

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							11
2	274.2034	137.6053	257.1769	129.0921			K	1031.5753	516.2913	1014.5487	507.7780	1013.5647	507.2860	10
3	331.2249	166.1161	314.1983	157.6028			G	829.4163	415.2118	812.3897	406.6985	811.4057	406.2065	9
4	402.2620	201.6346	385.2354	193.1214			A	772.3948	386.7010	755.3682	378.1878	754.3842	377.6958	8
5	489.2940	245.1506	472.2675	236.6374	471.2834	236.1454	S	701.3577	351.1825	684.3311	342.6692	683.3471	342.1772	7
6	546.3155	273.6614	529.2889	265.1481	528.3049	264.6561	G	614.3257	307.6665	597.2991	299.1532	596.3151	298.6612	6
7	645.3839	323.1956	628.3573	314.6823	627.3733	314.1903	V	557.3042	279.1557	540.2776	270.6425	539.2936	270.1504	5
8	774.4265	387.7169	757.3999	379.2036	756.4159	378.7116	E	458.2358	229.6215	441.2092	221.1083	440.2252	220.6162	4
9	871.4792	436.2433	854.4527	427.7300	853.4687	427.2380	P	329.1932	165.1002	312.1666	156.5870			3
10	928.5007	464.7540	911.4742	456.2407	910.4901	455.7487	G	232.1404	116.5738	215.1139	108.0606			2
11							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **KAVAFGKR**

Found in **Q5VTI5**, Pleckstrin homology domain-containing family A member 6 OS=Homo sapiens GN=PLEKHA6 PE=2 SV=1 **341**

Match to Query 3845: 1005.625348 from(503.819950, 2+) intensity(84494.7266)

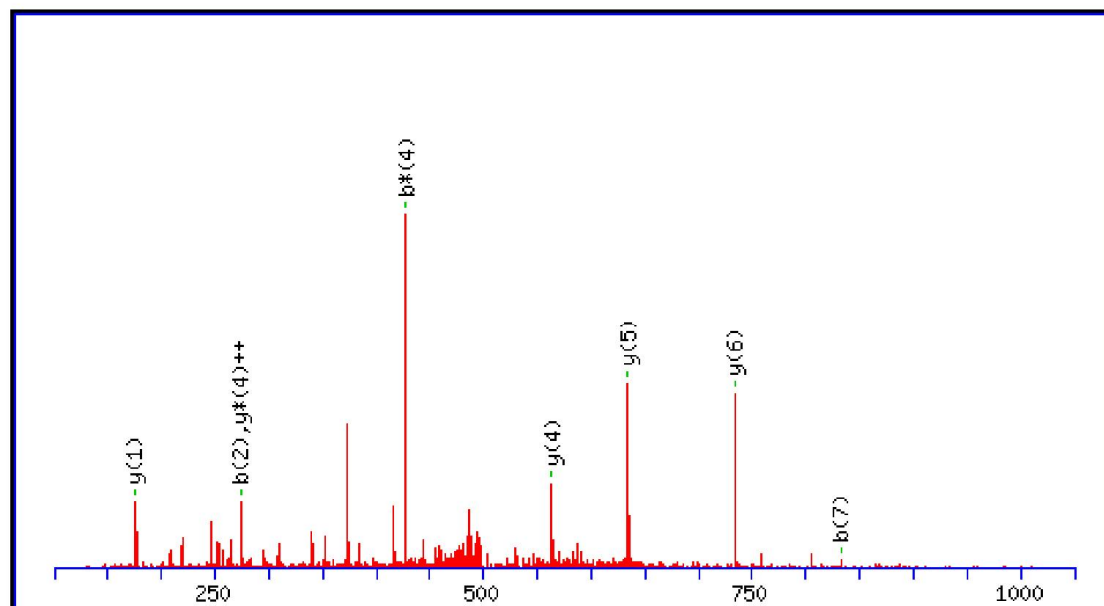
Title: File2129 Spectrum9966 scans: 11045

Data file I:\2013-12-03-SIMM7721-PR1-8-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1005.
Fixed modifications: Carbamidomethyl (C) (apply to speci
Variable modifications:
K1 : Propionyl-(13CD3)Methyl (K)
K7 : Propionyl (K)
Ions Score: 33 **Expect:** 0.097
Matches : 8/56 fragment ions using 9 most intense peaks

#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	203.1663	102.0868	186.1397	93.5735	K					8
2	274.2034	137.6053	257.1769	129.0921	A	804.4727	402.7400	787.4461	394.2267	7
3	373.2718	187.1395	356.2453	178.6263	V	733.4355	367.2214	716.4090	358.7081	6
4	444.3089	222.6581	427.2824	214.1448	A	634.3671	317.6872	617.3406	309.1739	5
5	591.3773	296.1923	574.3508	287.6790	F	563.3300	282.1686	546.3035	273.6554	4
6	648.3988	324.7030	631.3723	316.1898	G	416.2616	208.6344	399.2350	200.1212	3
7	832.5200	416.7636	815.4934	408.2504	K	359.2401	180.1237	342.2136	171.6104	2
8					R	175.1190	88.0631	158.0924	79.5498	1

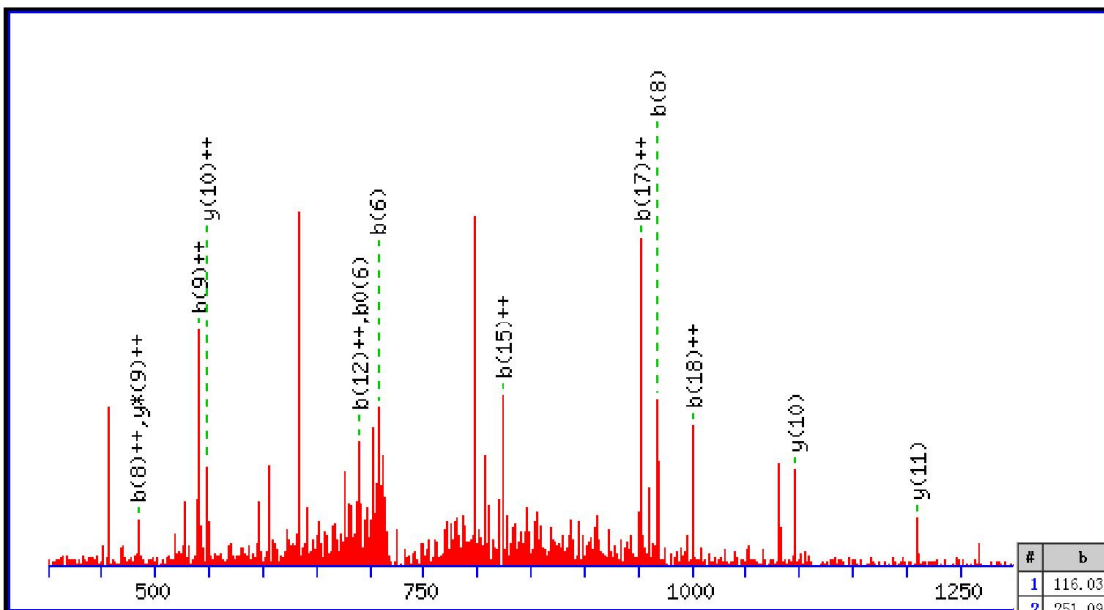
Found in **060431**, Olfactory receptor 1I1 OS=Homo sapiens GN=OR1I1 PE=2 SV=1

Match to Query 16922: 2175.309042 from(726.110290, 3+) intensity(155775.5469)

Title: File2129 Spectrum20508 scans: 22105

Data file I:\2013-12-03-SIMM7721-FR1-8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 2175.2937****Fixed modifications:** Carbamidomethyl (C) (apply to specified residues)**Variable modifications:****M2** : Label:13C(1)2H(3) (M)**K3** : Propionyl-(13CD3)Methyl (K)**K8** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 21 **Expect:** 0.84**Matches** : 15/176 fragment ions using 33 most intense peaks [\(help\)](#)

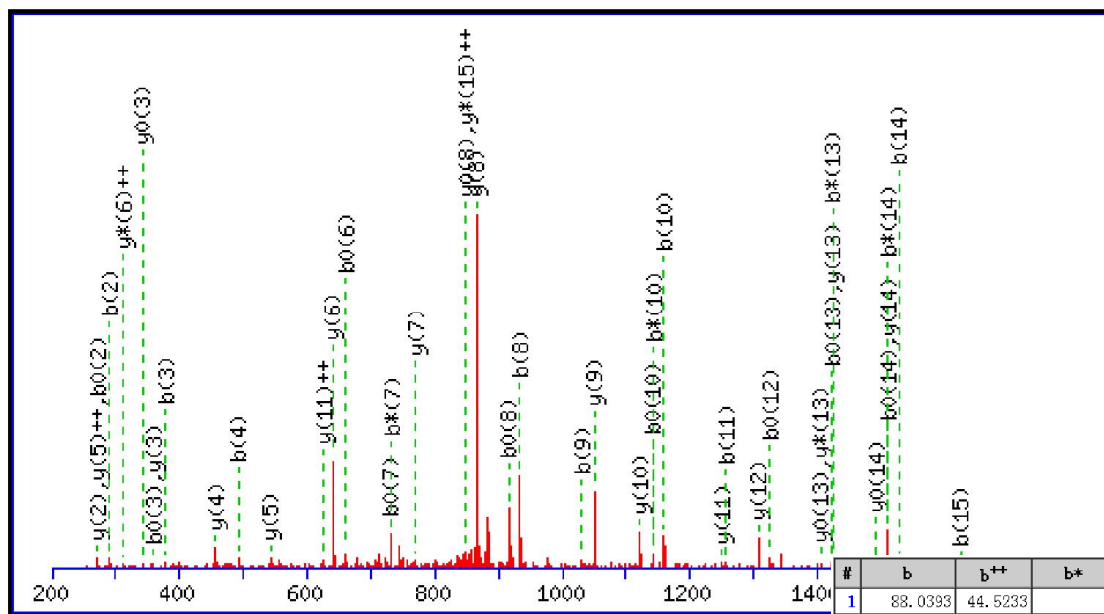
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	#
1	116.0342	58.5207			98.0237	49.5155	D					19
2	251.0989	126.0521			233.0863	117.0468	H	2061.2741	1031.1407	2044.2475	1022.6274	18
3	453.2559	227.1316	436.2294	218.6183	435.2453	218.1263	K	1926.2114	963.6093	1909.1849	955.0961	17
4	524.2930	262.6501	507.2665	254.1369	506.2825	253.6449	A	1724.0524	862.5298	1707.0258	854.0166	16
5	595.3301	298.1687	578.3036	289.6554	577.3196	289.1634	A	1653.0153	827.0113	1635.9887	818.4980	15
6	708.4142	354.7107	691.3876	346.1975	690.4036	345.7055	L	1581.9782	791.4927	1564.9516	782.9794	14
7	765.4357	383.2215	748.4091	374.7082	747.4251	374.2162	G	1468.8941	734.9507	1451.8676	726.4374	13
8	967.5947	484.3010	950.5681	475.7877	949.5841	475.2957	K	1411.8726	706.4400	1394.8461	697.9287	12
9	1080.6787	540.8430	1063.6522	532.3297	1062.6682	531.8377	L	1209.7136	605.3605	1192.6871	596.8472	11
10	1193.7628	597.3850	1176.7362	588.8718	1175.7522	588.3798	I	1096.6296	548.8184	1079.6030	540.3051	10
11	1250.7843	625.8958	1233.7577	617.3825	1232.7737	616.8905	G	983.5455	492.2764	966.5189	483.7631	9
12	1378.8792	689.9433	1361.8527	681.4300	1360.8687	680.9380	K	926.5240	463.7657	909.4975	455.2524	8
13	1477.9476	739.4775	1460.9211	730.9642	1459.9371	730.4722	V	798.4291	399.7182	781.4025	391.2049	7
14	1548.9848	774.9950	1531.9582	766.4827	1530.9742	765.9907	A	699.3607	350.1840	682.3341	341.6707	6
15	1648.0532	824.5302	1631.0266	816.0169	1630.0426	815.5249	V	628.3235	314.6654	611.2970	306.1521	5
16	1745.1059	873.0566	1728.0794	864.5433	1727.0954	864.0513	P	529.2551	265.1312	512.2286	256.6179	4
17	1905.1366	953.0719	1888.1100	944.5587	1887.1260	944.0666	C	432.2024	216.6048	415.1758	208.0915	3
18	2002.1893	1001.5983	1985.1628	993.0850	1984.1788	992.5930	P	272.1717	136.5895	255.1452	128.0762	2
19							R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 13991: 1797.905608 from(899.960080, 2+) intensity(36378.1719)

Title: File2129 Spectrum6164 scans: 7079

Data file I:\2013-12-03-SIMM7721-FR1-8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1797.****Fixed modifications:** Carbamidomethyl (C) (apply to speci**Variable modifications:****K2** : Propionyl-(13CD3)Methyl (K)**K8** : Propionyl (K)**Ions Score:** 78 **Expect:** 6.8e-006**Matches** : 44/174 fragment ions using 72 most intense peaks:

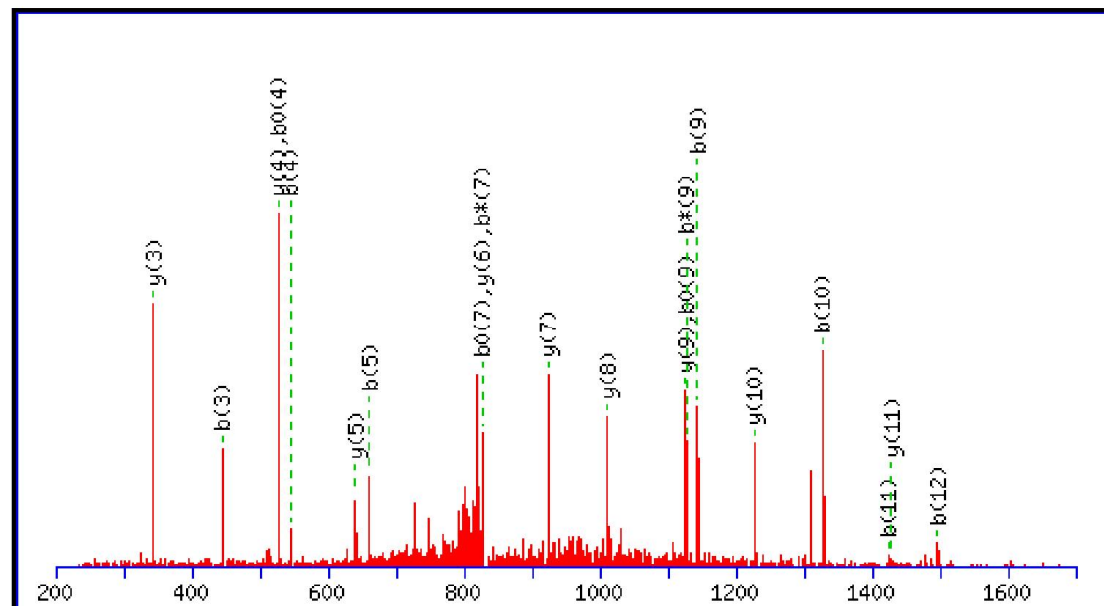
#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							16
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	K	1711.8770	856.4421	1694.8504	847.9289	1693.8664	847.4369	15
3	377.2303	189.1188	360.2038	180.6055	359.2198	180.1135	S	1509.7180	755.3626	1492.6914	746.8494	1491.7074	746.3573	14
4	492.2573	246.6323	475.2307	238.1190	474.2467	237.6270	D	1422.6859	711.8466	1405.6594	703.3333	1404.6754	702.8413	13
5	549.2788	275.1430	532.2522	266.6297	531.2682	266.1377	G	1307.6590	654.3831	1290.6325	645.3199	1289.6484	645.3279	12
6	678.3213	339.6643	661.2948	331.1510	660.3108	330.6590	E	1250.6375	625.8224	1233.6110	617.3091	1232.6270	616.8171	11
7	749.3585	375.1829	732.3319	366.6696	731.3479	366.1776	A	1121.5949	561.3011	1104.5684	552.7878	1103.5844	552.2958	10
8	933.4796	467.2435	916.4531	458.7302	915.4631	458.2382	K	1050.5578	525.7826	1033.5313	517.2693	1032.5473	516.7773	9
9	1030.5324	515.7698	1013.5059	507.2566	1012.5218	506.7646	P	866.4367	433.7220	849.4101	425.2087	848.4261	424.7167	8
10	1159.5750	580.2911	1142.5484	571.7779	1141.5644	571.2859	E	769.3839	385.1956	752.3573	376.6823	751.3733	376.1903	7
11	1256.6278	628.3175	1239.6012	620.3042	1238.6172	619.8122	P	640.3413	320.6743	623.3148	312.1610	622.3307	311.6690	6
12	1343.6598	672.3335	1326.6332	663.8203	1325.6492	663.3282	S	543.2885	272.1479	526.2620	263.6346	525.2780	263.1426	5
13	1440.7126	720.8599	1423.6860	712.3466	1422.7020	711.8546	P	456.2565	228.6319	439.2300	220.1186	438.2459	219.6266	4
14	1527.7446	764.3759	1510.7180	755.8627	1509.7340	755.3706	S	359.2037	180.1055	342.1772	171.5922	341.1932	171.1002	3
15	1624.7973	812.9023	1607.7708	804.3890	1606.7868	803.8970	P	272.1717	136.5895	255.1452	128.0762			2
16							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 12342: 1668.949068 from(835.481810,2+) intensity(71590.4922)

Title: File2129 Spectrum13072 scans: 14280

Data file I:\2013-12-03-SIMM7721-FR1-8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1668.****Fixed modifications:** Carbamidomethyl (C) (apply to speci**Variable modifications:****K1** : Propionyl (K)**K3** : Propionyl-(13CD3)Methyl (K)**K10** : Propionyl (K)**Ions Score:** 60 **Expect:** 0.00051**Matches** : 21/124 fragment ions using 29 most intense peak:

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							13
2	242.1499	121.5786	225.1234	113.0653			G	1485.8333	743.4203	1468.8067	734.9070	1467.8227	734.4150	12
3	444.3089	222.6581	427.2824	214.1448			K	1428.8118	714.9095	1411.7853	706.3963	1410.8012	705.9043	11
4	545.3566	273.1819	528.3301	264.6687	527.3460	264.1767	T	1226.6528	613.8300	1209.6263	605.3168	1208.6422	604.8248	10
5	660.3836	330.6954	643.3570	322.1821	642.3730	321.6901	D	1125.6051	563.3062	1108.5786	554.7929	1107.5946	554.3009	9
6	747.4156	374.2114	730.3890	365.6982	729.4050	365.2061	S	1010.5782	505.7927	993.5516	497.2795	992.5676	496.7874	8
7	844.4683	422.7378	827.4418	414.2245	826.4578	413.7325	P	923.5461	462.2767	906.5196	453.7634			7
8	1030.5477	515.7775	1013.5211	507.2642	1012.5371	506.7722	W	826.4934	413.7503	809.4668	405.2371			6
9	1143.6317	572.3195	1126.6052	563.8062	1125.6212	563.3142	I	640.4141	320.7107	623.3875	312.1974			5
10	1327.7529	664.3801	1310.7264	655.8668	1309.7423	655.3748	K	527.3300	264.1686	510.3035	255.6554			4
11	1424.8057	712.9065	1407.7791	704.3932	1406.7951	703.9012	P	343.2088	172.1081	326.1823	163.5948			3
12	1495.8428	748.4250	1478.8162	739.9118	1477.8322	739.4197	A	246.1561	123.5817	229.1295	115.0684			2
13							R	175.1190	88.0631	158.0924	79.5498			1

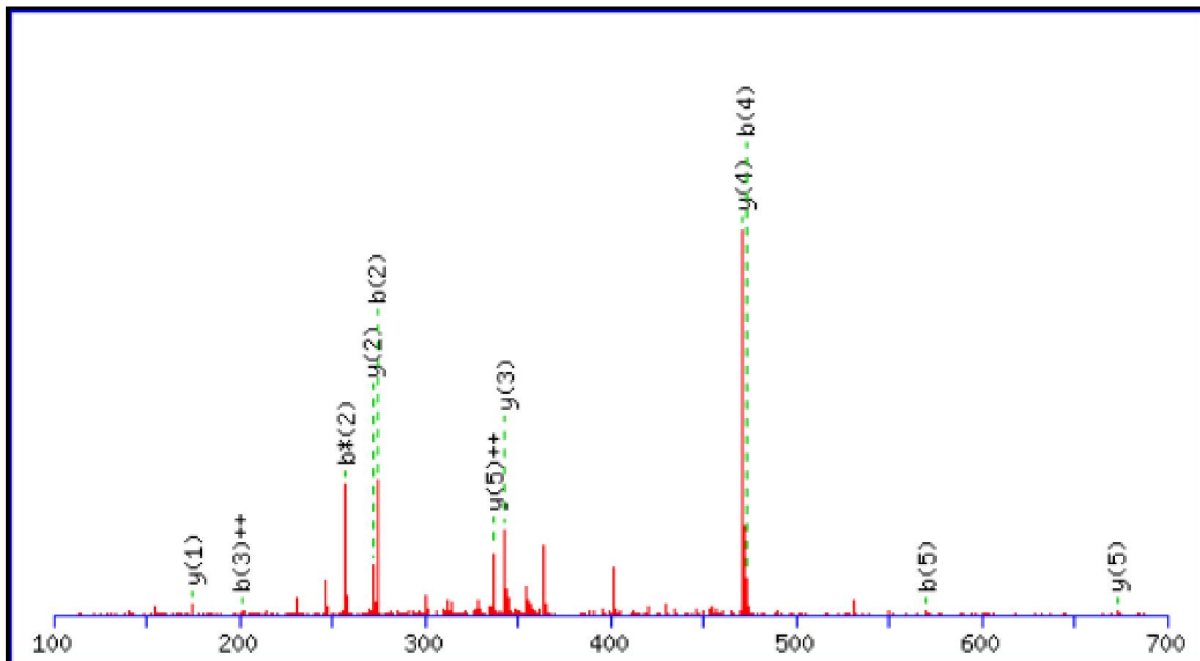
Found in **Q8N3V7**, Synaptodin OS=Homo sapiens GN=SYNPO PE=1 SV=2

Match to Query 320: 743.457008 from(372.735780,2+) intensity(68476.3047)

Title: File2131 Spectrum2963 scans: 3607

Data file I:\2013-12-03-SIMM7721-FR1-9-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 743.4

Fixed modifications: Carbamidomethyl (C) (apply to s

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

Ions Score: 36 Expect: 0.07

Matches : 11/38 fragment ions using 18 most intense

#	b	b ⁺⁺	b [*]	b ^{*++}	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
1	72.0444	36.5258			A					6
2	274.2034	137.6053	257.1769	129.0921	K	673.4264	337.2168	656.3999	328.7036	5
3	402.2620	201.6346	385.2354	193.1214	Q	471.2674	236.1373	454.2409	227.6241	4
4	473.2991	237.1532	456.2725	228.6399	A	343.2088	172.1081	326.1823	163.5948	3
5	570.3519	285.6796	553.3253	277.1663	P	272.1717	136.5895	255.1452	128.0762	2
6					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 14575: 1874.958348 from(938.486450,2+) intensity(9935.7207)

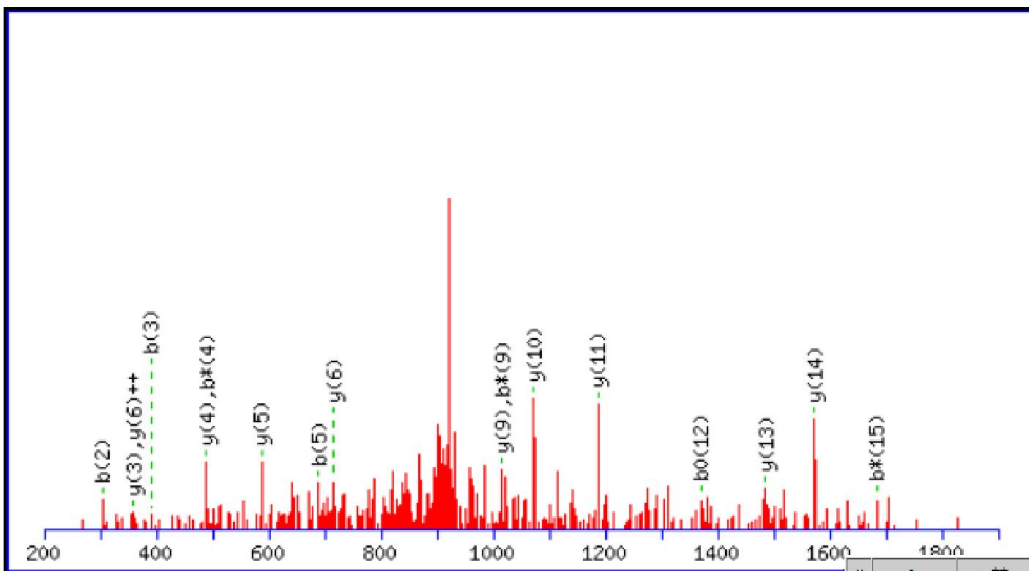
Title: File2131 Spectrum8215 scans: 9130

Data file I:\2013-12-03-SIMM7721-FR1-9-ZW.mgf

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

Or, Plot from to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1874.9606

Fixed modifications: Carbamidomethyl (C) (apply to specified)

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K5 : Propionyl (K)

Ions Score: 48 Expect: 0.0085

Matches : 17/172 fragment ions using 31 most intense peaks

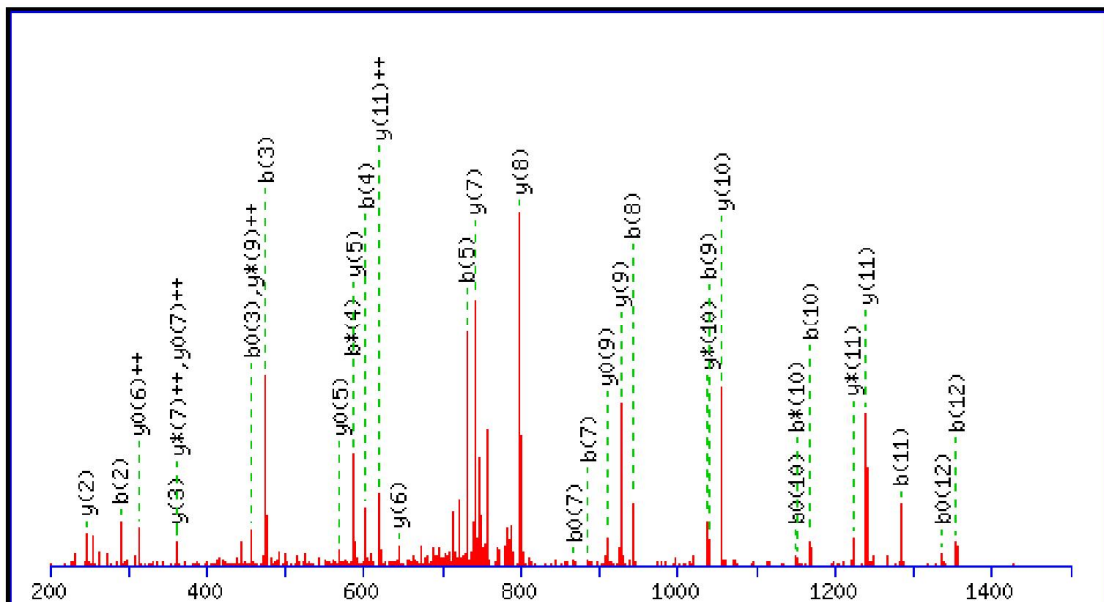
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T							16
2	304.2140	152.6106	287.1874	144.0973	286.2034	143.6053	K	1774.9203	887.9638	1757.8937	879.4505	1756.9097	878.9585	15
3	391.2460	196.1266	374.2194	187.6134	373.2354	187.1214	S	1572.7612	786.8843	1555.7347	778.3710	1554.7507	777.8790	14
4	505.2889	253.1481	488.2624	244.6348	487.2784	244.1428	N	1485.7292	743.3682	1468.7027	734.8550	1467.7186	734.3630	13
5	689.4101	345.2087	672.3836	336.6954	671.3995	336.2034	K	1371.6863	686.3468	1354.6597	677.8335	1353.6757	677.3415	12
6	804.4370	402.7222	787.4105	394.2089	786.4265	393.7169	D	1187.5651	594.2862	1170.5386	585.7729	1169.5545	585.2809	11
7	861.4585	431.2329	844.4320	422.7196	843.4479	422.2276	G	1072.5382	536.7727	1055.5116	528.2594	1054.5276	527.7674	10
8	918.4800	459.7436	901.4534	451.2303	900.4694	450.7383	G	1015.5167	508.2620	998.4901	499.7487	997.5061	499.2567	9
9	1032.5229	516.7651	1015.4964	508.2518	1014.5123	507.7598	N	958.4952	479.7513	941.4687	471.2380	940.4847	470.7460	8
10	1160.5815	580.7944	1143.5549	572.2811	1142.5709	571.7891	Q	844.4523	422.7298	827.4258	414.2165	826.4417	413.7245	7
11	1289.6241	645.3157	1272.5975	636.8024	1271.6135	636.3104	E	716.3937	358.7005	699.3672	350.1872	698.3832	349.6952	6
12	1388.6925	694.8499	1371.6659	686.3366	1370.6819	685.8446	V	587.3511	294.1792	570.3262	285.6659	569.3406	285.1739	5
13	1517.7351	759.3712	1500.7085	750.8579	1499.7245	750.3659	E	488.2827	244.6450	471.2562	236.1317	470.2722	235.6397	4
14	1630.8191	815.9132	1613.7926	807.3999	1612.8086	806.9079	I	359.2401	180.1237	342.2136	171.6104			3
15	1701.8563	851.4318	1684.8297	842.9185	1683.8457	842.4265	A	246.1561	123.5817	229.1295	115.0684			2
16							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 8402: 1527.779028 from(764.896790, 2+) intensity(164002.6094)

Title: File2121 Spectrum4120 scans: 5330

Data file I:\2013-12-03-SIMM7721-FR1-5-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1527.779028

Fixed modifications: Carbamidomethyl (C) (apply to specific residues)

Variable modifications:

K2 : Propionyl-(13C3)Methyl (K)

K3 : Propionyl (K)

Ions Score: 71 Expect: 3.3e-005

Matches : 34/138 fragment ions using 49 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							13
2	290.1983	145.6028	278.1718	137.0895	272.1878	136.5975	K	1441.7554	721.3813	1424.7289	712.8681	1423.7449	712.3761	12
3	474.3195	237.6634	457.2929	229.1501	456.3089	228.6581	K	1239.5964	620.3018	1222.5699	611.7886	1221.5858	611.2966	11
4	602.3787	301.6927	585.3515	293.1794	584.3675	292.6874	Q	1055.4752	528.2413	1038.4487	519.7280	1037.4647	519.2360	10
5	731.4207	366.2140	714.3941	357.7007	713.4101	357.2087	E	927.4167	464.2120	910.3901	455.6987	909.4061	455.2067	9
6	788.4421	394.7247	771.4156	386.2114	770.4316	385.7194	G	798.3741	399.6907	781.3475	391.1774	780.3635	390.6854	8
7	885.4949	443.2511	868.4683	434.7378	867.4843	434.2458	P	741.3526	371.1799	724.3260	362.6667	723.3420	362.1747	7
8	942.5164	471.7618	925.4898	463.2485	924.5058	462.7565	G	644.2998	322.6536	627.2733	314.1403	626.2893	313.6483	6
9	1039.5697	520.2882	1022.5426	511.7749	1021.5586	511.2829	P	587.2784	294.1428	570.2518	285.6295	569.2678	285.1375	5
10	1168.6117	584.8095	1151.5852	576.2962	1150.6012	575.8042	E	490.2256	245.6164	473.1991	237.1032	472.2150	236.6112	4
11	1283.6387	642.3230	1266.6121	633.8097	1265.6281	633.3177	D	361.1830	181.0951	344.1565	172.5819	343.1724	172.0899	3
12	1354.6758	677.8415	1337.6492	669.3282	1336.6652	668.8362	A	246.1561	123.5817	229.1295	115.0684			2
13							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **RVKAKLEGR**

Found in **I3LOC1**, Serine/threonine-protein kinase SMG1 OS=Homo sapiens GN=SMG1 PE=2 SV=1

Match to Query 5251: 1185.750588 from(593.882570, 2+) intensity(288655.0625)

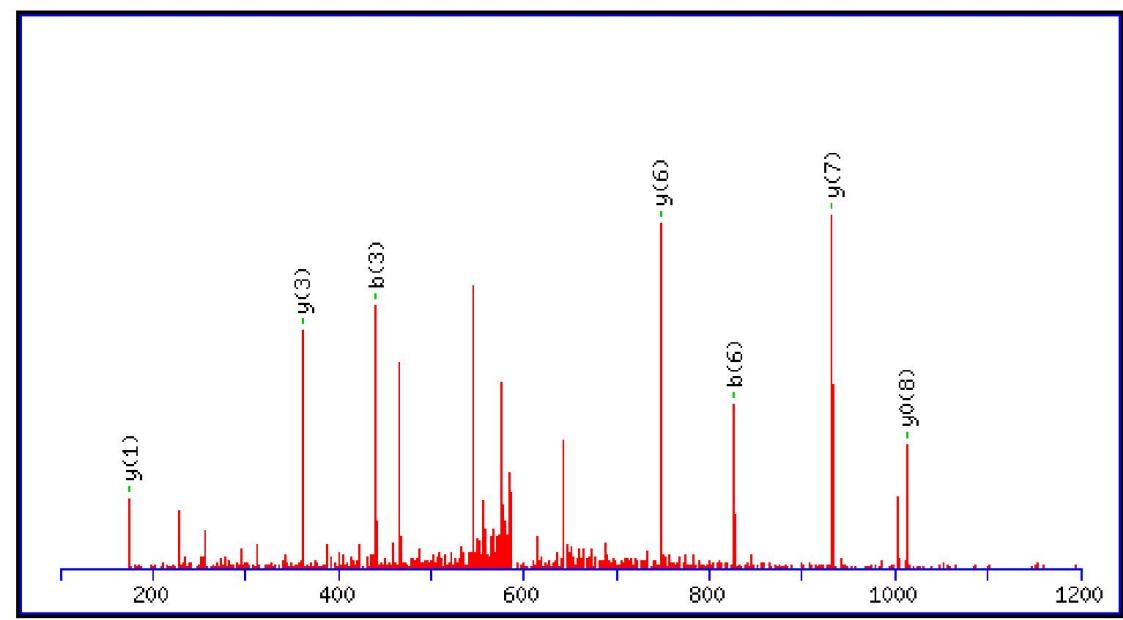
Title: File2121 Spectrum9612 scans: 11085

Data file I:\2013-12-03-SIMM7721-FR1-5-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1185.7466

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

Variable modifications:

- K3** : Propionyl (K)
- K5** : Propionyl-(13CD3)Methyl (K)

Ions Score: 28 **Expect:** 0.19

Matches : 8/80 fragment ions using 10 most intense peaks

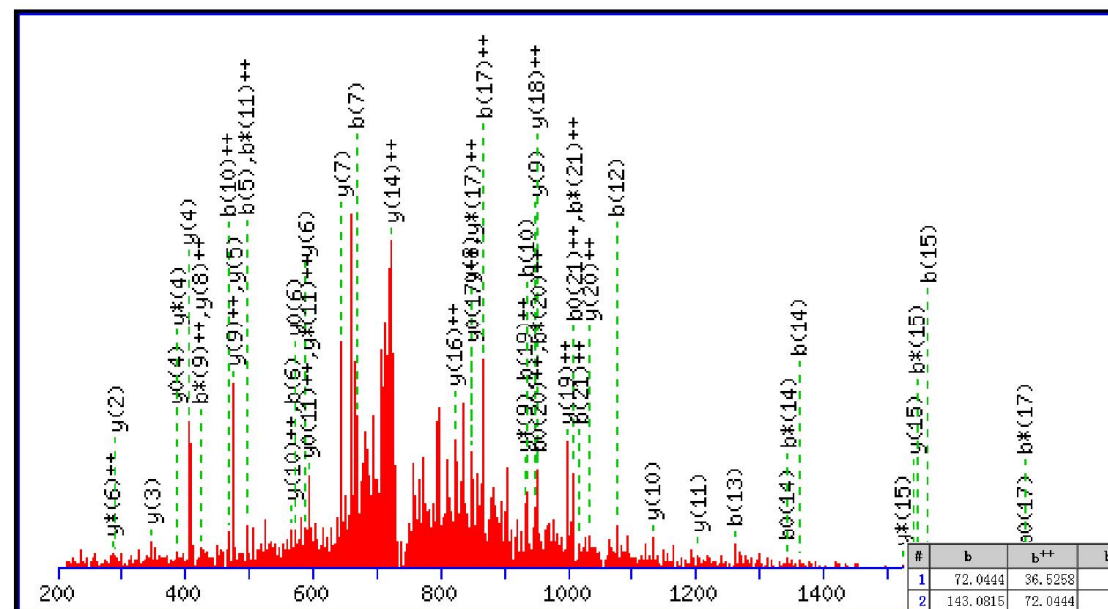
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	157.1084	79.0578	140.0818	70.5446			R							9
2	256.1768	128.5920	239.1503	120.0788			Y	1030.6528	515.8300	1013.6262	507.3168	1012.6422	506.8248	8
3	440.2980	220.6526	423.2714	212.1394			K	931.5844	466.2958	914.5578	457.7826	913.5738	457.2905	7
4	511.3351	256.1712	494.3085	247.6579			A	747.4632	374.2352	730.4367	365.7220	729.4526	365.2300	6
5	713.4941	357.2507	696.4676	348.7374			K	676.4261	338.7167	659.3995	330.2034	658.4155	329.7114	5
6	826.5782	413.7927	809.5516	405.2794			L	474.2671	237.6372	457.2405	229.1239	456.2565	228.6319	4
7	955.6208	478.3140	938.5942	469.8007	937.6102	469.3087	E	361.1830	181.0951	344.1565	172.5819	343.1724	172.0899	3
8	1012.6422	506.8248	995.6157	498.3115	994.6317	497.8195	G	232.1404	116.5738	215.1139	108.0606			2
9							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 15266: 2207.252532 from(736.758120, 3+) intensity(24746.5586)

Title: File2121 Spectrum10944 scans: 12472

Data file I:\2013-12-03-SIMM7721-FR1-5-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 2207.2546****Fixed modifications:** Carbamidomethyl (C) (apply to specified)**Variable modifications:****K5** : Propionyl (K)**K13** : Propionyl (K)**K15** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 26 **Expect:** 1.1**Matches** : 52/230 fragment ions using 145 most intense peaks

#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							22
2	143.0815	72.0444					A	2137.2248	1069.1160	2120.1983	1060.6028	2119.2143	1060.1108	21
3	214.1186	107.5629					A	2066.1877	1033.5975	2049.1612	1025.0842	2048.1771	1024.5922	20
4	311.1714	156.0893					P	1995.1506	998.0789	1978.1240	989.5657	1977.1400	989.0737	19
5	495.2926	248.1499	478.2660	239.6366			K	1898.0978	949.5526	1881.0713	941.0393	1880.0873	940.5473	18
6	566.3297	283.6685	549.3031	275.1552			A	1713.9766	857.4920	1696.9501	848.9787	1695.9661	848.4867	17
7	667.3774	334.1923	659.3508	325.6790	649.3668	325.1870	T	1642.9395	821.9734	1625.9130	813.4601	1624.9290	812.9681	16
8	764.4301	382.7187	747.4036	374.2054	746.4196	373.7134	P	1541.8919	771.4496	1524.8653	762.9363	1523.8813	762.4443	15
9	863.4985	432.2529	846.4720	423.7396	845.4880	423.2476	Y	1444.8391	722.9232	1427.8125	714.4099	1426.8285	713.9179	14
10	934.5356	467.7715	917.5091	459.2582	916.5251	458.7662	A	1345.7707	673.3890	1328.7441	664.8757	1327.7601	664.3837	13
11	1005.5728	503.2900	988.5462	494.7767	987.5622	494.2847	A	1274.7336	637.8704	1257.7070	629.3571	1256.7230	628.8651	12
12	1076.6099	538.8086	1059.5833	530.2953	1058.5993	529.8033	A	1203.6964	602.3519	1186.6699	593.8386	1185.6859	593.3466	11
13	1260.7311	630.8692	1243.7045	622.3559	1242.7205	621.8639	K	1132.6593	566.8333	1115.6328	558.3200	1114.6488	557.8280	10
14	1361.7787	681.3930	1344.7522	672.8797	1343.7682	672.3877	T	948.5382	474.7727	931.5116	466.2594	930.5276	465.7674	9
15	1563.9377	782.4725	1546.9112	773.9592	1545.9272	773.4672	K	847.4905	424.2489	830.4639	415.7356	829.4799	415.2436	8
16	1620.9592	810.9832	1603.9327	802.4700	1602.9486	801.9780	G	645.3315	323.1694	628.3049	314.6561	627.3209	314.1641	7
17	1734.0433	867.5253	1717.0167	859.0120	1716.0327	858.5200	L	588.3100	294.6586	571.2835	286.1454	570.2994	285.6534	6
18	1805.0804	903.0438	1788.0538	894.5306	1787.0698	894.0385	A	475.2259	238.1166	458.1994	229.6039	457.2154	229.1113	5
19	1862.1018	931.5546	1845.0753	923.0413	1844.0913	922.5493	G	404.1888	202.5980	387.1623	194.0848	386.1783	193.5928	4
20	1919.1233	960.0653	1902.0968	951.5520	1901.1127	951.0600	G	347.1674	174.0873	330.1408	165.5740	329.1568	165.0820	3
21	2034.1503	1017.5788	2017.1237	1009.0655	2016.1397	1008.5735	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
22							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **RKKSFR**

Found in **Q92796-2**, Isoform 2 of Disks large homolog 3 OS=Homo sapiens GN=DLG3

Match to Query 2226: 950.592068 from(476.303310,2+) intensity(70319.4375)

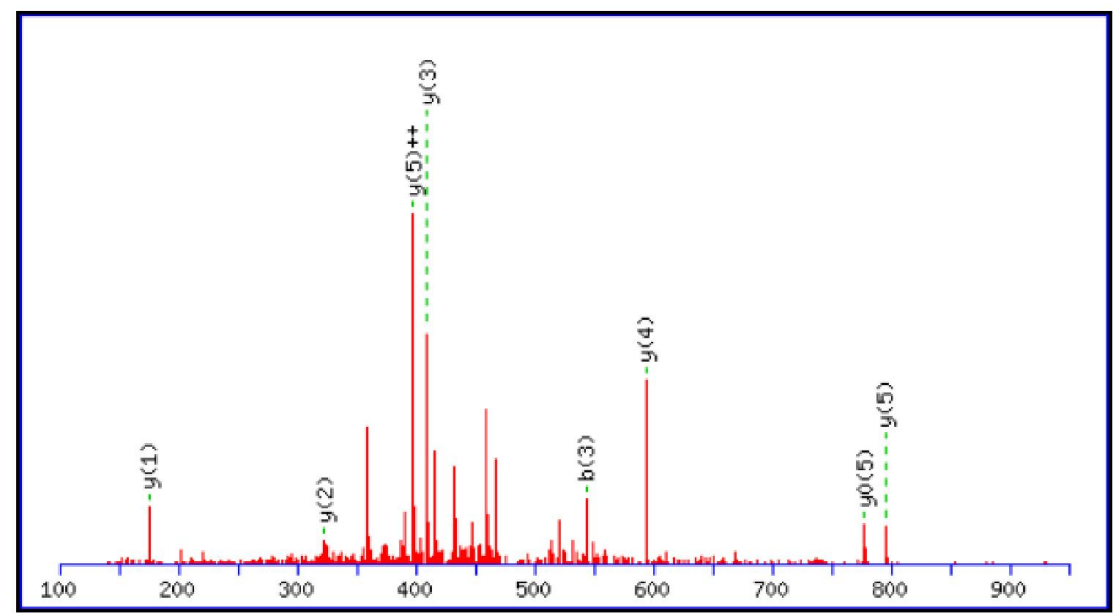
Title: File2124 Spectrum3814 scans: 4631

Data file I:\2013-12-03-SIMM7721-FR1-6-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide **Mr(calc)**: 950.5934

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K3 : Propionyl (K)

Ions Score: 32 Expect: 0.11

Matches : 9/50 fragment ions using 16 most intense peaks

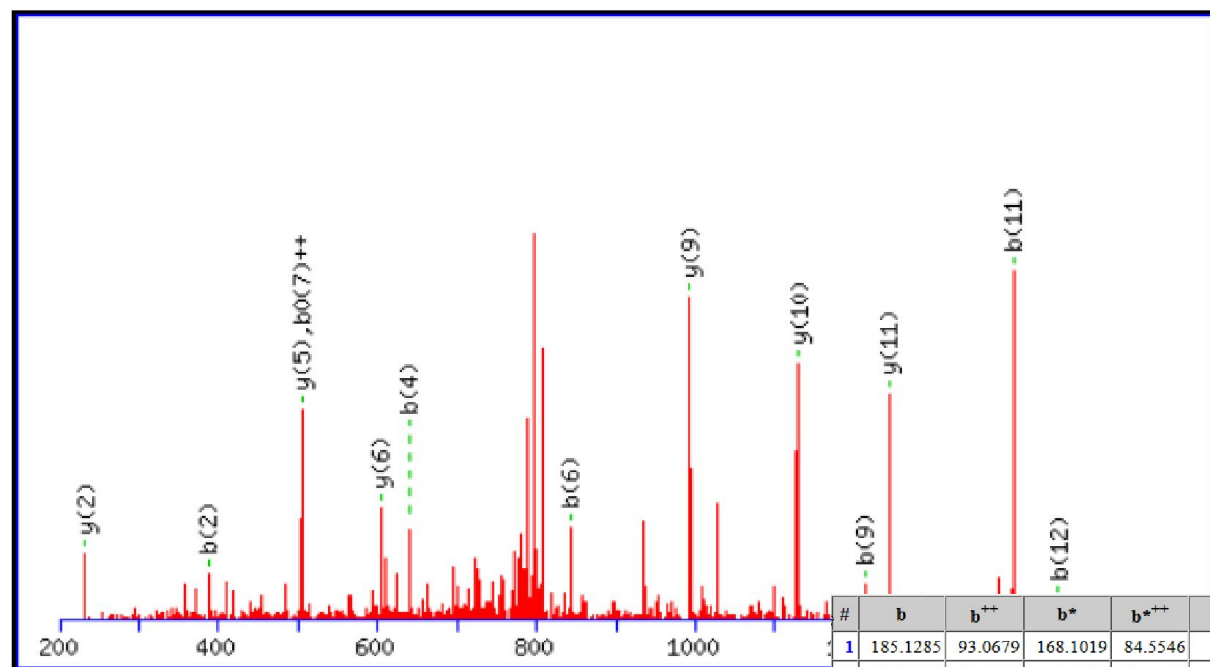
#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	157.1084	79.0578	140.0818	70.5446			R							6
2	359.2674	180.1373	342.2409	171.6241			K	795.4996	398.2534	778.4730	389.7402	777.4890	389.2481	5
3	543.3886	272.1979	526.3620	263.6847			K	593.3406	297.1739	576.3140	288.6606	575.3300	288.1686	4
4	630.4206	315.7139	613.3941	307.2007	612.4100	306.7087	S	409.2194	205.1133	392.1928	196.6001	391.2088	196.1081	3
5	777.4890	389.2481	760.4625	380.7349	759.4785	380.2429	F	322.1874	161.5973	305.1608	153.0840			2
6							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 11571: 1629.872768 from(815.943660,2+) intensity(156271.4219)

Title: File2124 Spectrum8636 scans: 9746

Data file I:\2013-12-03-SIMM7721-FR1-6-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1629

Fixed modifications: Carbamidomethyl (C) (apply to

Variable modifications:

K1 : Propionyl (K)

K2 : Propionyl-(13CD3)Methyl (K)

K7 : Propionyl (K)

Ions Score: 68 Expect: 9.9e-005

Matches : 13/136 fragment ions using 14 most intens

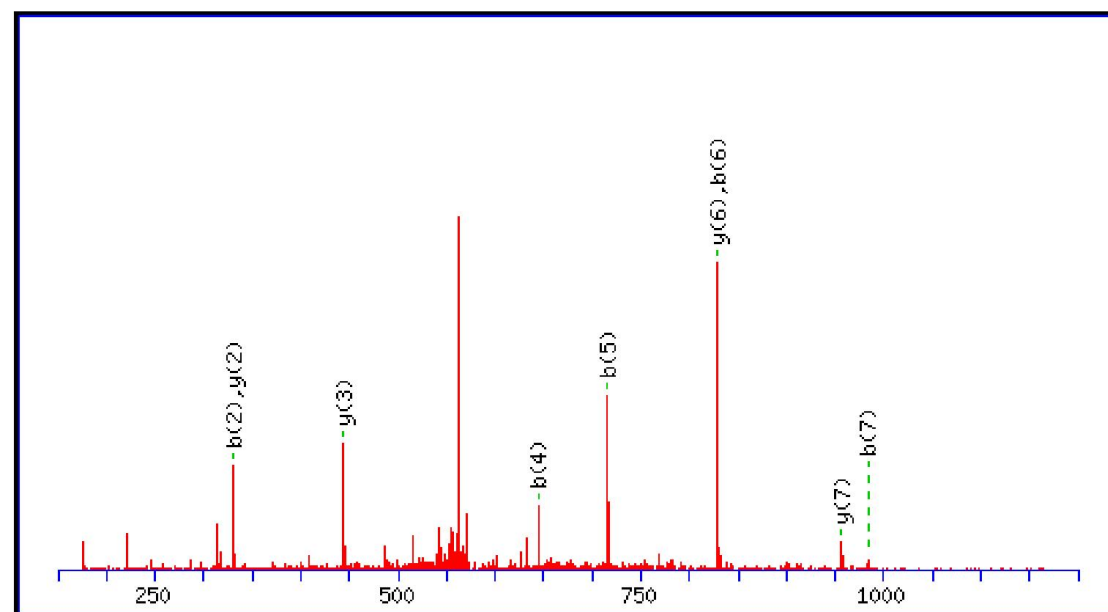
#	b	b ⁺⁺	b [*]	b ^{***}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							13
2	387.2875	194.1474	370.2609	185.6341			K	1446.7608	723.8841	1429.7343	715.3708	1428.7503	714.8788	12
3	502.3144	251.6608	485.2879	243.1476	484.3038	242.6556	D	1244.6018	622.8046	1227.5753	614.2913	1226.5913	613.7993	11
4	639.3733	320.1903	622.3468	311.6770	621.3628	311.1850	H	1129.5749	565.2911	1112.5483	556.7778	1111.5643	556.2858	10
5	696.3948	348.7010	679.3682	340.1878	678.3842	339.6957	G	992.5160	496.7616	975.4894	488.2483	974.5054	487.7563	9
6	843.4632	422.2352	826.4367	413.7220	825.4526	413.2300	F	935.4945	468.2509	918.4680	459.7376	917.4839	459.2456	8
7	1027.5844	514.2958	1010.5578	505.7826	1009.5738	505.2905	K	788.4261	394.7167	771.3995	386.2034	770.4155	385.7114	7
8	1126.6528	563.8300	1109.6262	555.3168	1108.6422	554.8248	V	604.3049	302.6561	587.2784	294.1428	586.2944	293.6508	6
9	1213.6848	607.3460	1196.6583	598.8328	1195.6743	598.3408	S	505.2365	253.1219	488.2100	244.6086	487.2259	244.1166	5
10	1284.7219	642.8646	1267.6954	634.3513	1266.7114	633.8593	A	418.2045	209.6059	401.1779	201.0926	400.1939	200.6006	4
11	1399.7489	700.3781	1382.7223	691.8648	1381.7383	691.3728	D	347.1674	174.0873	330.1408	165.5740	329.1568	165.0820	3
12	1456.7703	728.8888	1439.7438	720.3755	1438.7598	719.8835	G	232.1404	116.5738	215.1139	108.0606			2
13							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 4844: 1157.703948 from(579.859250, 2+) intensity(242736.0469)

Title: File2118 Spectrum7457 scans: 8802

Data file I:\2013-12-03-SIMM7721-FR1-4-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1157.703948

Fixed modifications: Carbamidomethyl (C) (apply to spec:

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)**K4** : Propionyl (K)

Ions Score: 43 Expect: 0.012

Matches : 9/70 fragment ions using 10 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							8
2	331.2249	166.1161	314.1983	157.6028			Q	956.5636	478.7854	939.5370	470.2722	938.5530	469.7802	7
3	460.2675	230.6374	443.2409	222.1241	442.2569	221.6321	E	828.5050	414.7561	811.4785	406.2429	810.4944	405.7509	6
4	644.3886	322.6980	627.3621	314.1847	626.3781	313.6927	K	699.4624	350.2348	682.4359	341.7216			5
5	715.4258	358.2165	698.3992	349.7032	697.4152	349.2112	A	515.3412	258.1743	498.3147	249.6610			4
6	828.5098	414.7585	811.4833	406.2453	810.4993	405.7533	L	444.3041	222.6557	427.2776	214.1424			3
7	984.6109	492.8091	967.5844	484.2958	966.6004	483.8038	R	331.2201	166.1137	314.1935	157.6004			2
8							R	175.1190	88.0631	158.0924	79.5498			1

Found in **Q9NVHO**, Exonuclease 3'-5' domain-containing protein 2 OS=Homo sapiens GN=EXD2 PE=1 SV=2

Match to Query 15089: 2077.085052 from(693.368960, 3+) intensity(52182.6445)

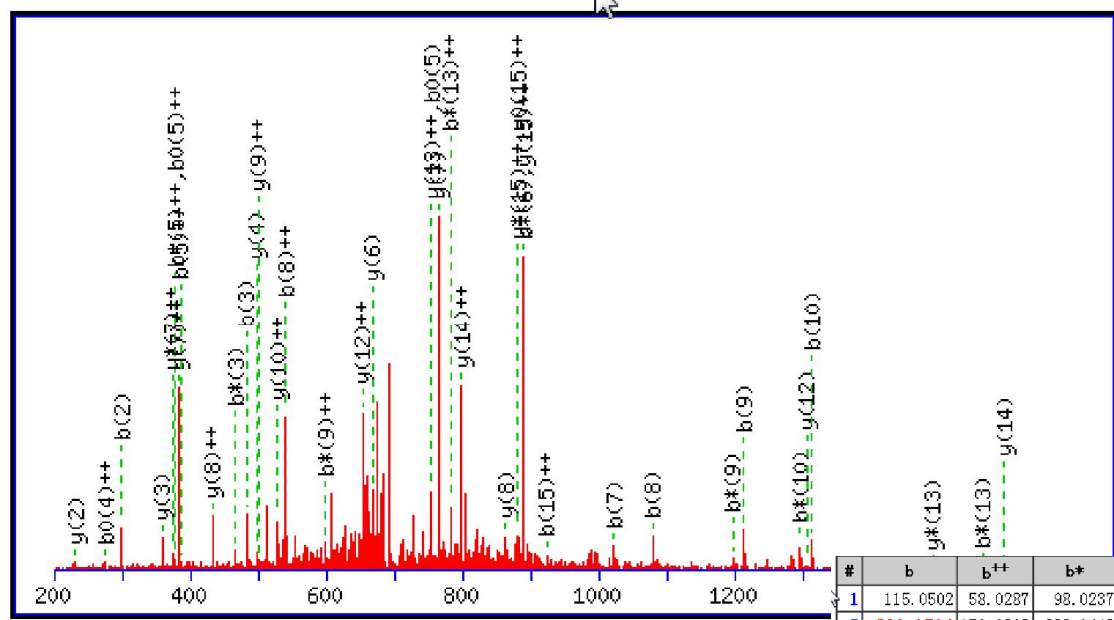
Title: File2118 Spectrum9696 scans: 11134

Data file I:\2013-12-03-SIMM7721-PR1-4-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2077.

Fixed modifications: Carbamidomethyl (C) (apply to speci

Variable modifications:

- K2** : Propionyl (K)
- K3** : Propionyl (K)
- K5** : Propionyl-(13CD3)Methyl (K)
- M6** : Label:13C(1)2H(3) (M)
- M9** : Label:13C(1)2H(3) (M)

Ions Score: 26 Expect: 1.6

Matches : 40/166 fragment ions using 100 most intense peak

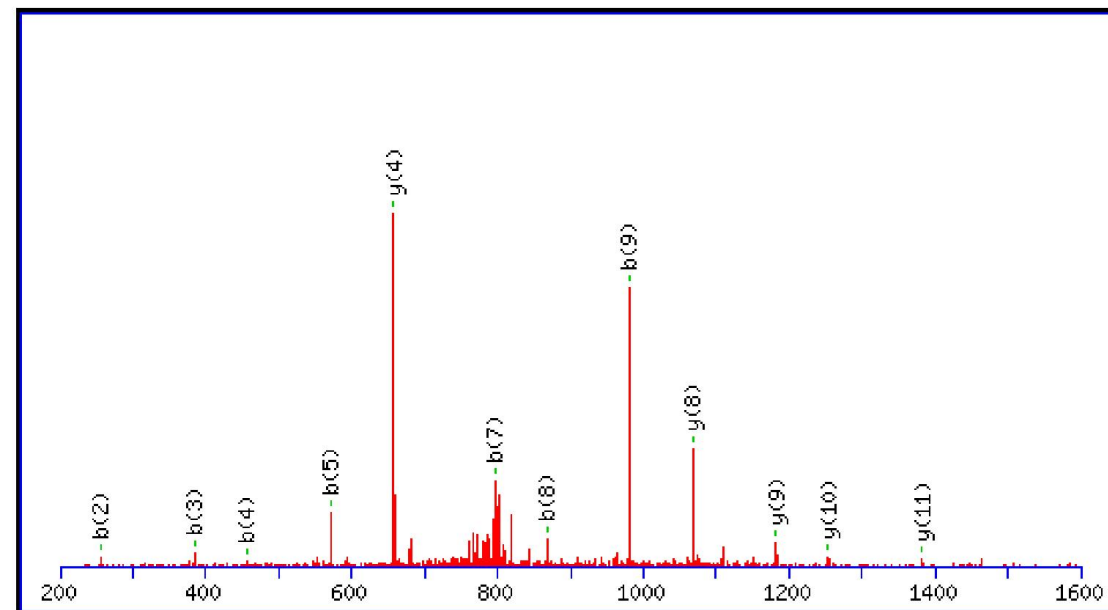
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	115.0502	58.0287	98.0237	49.5155			N							17
2	299.1714	150.0893	282.1448	141.5761			K	1964.0506	982.5289	1947.0241	974.0157	1946.0401	973.5237	16
3	483.2926	242.1499	466.2660	233.6366			K	1779.9294	890.4684	1762.9029	881.9551	1761.9189	881.4631	15
4	570.3246	285.6659	553.2980	277.1527	552.3140	276.6606	S	1595.8083	798.4078	1578.7817	789.3945	1577.7977	789.4025	14
5	772.4836	386.7454	755.4571	378.2322	754.4730	377.7402	K	1508.7762	754.8918	1491.7497	746.3785	1490.7657	745.8865	13
6	907.5463	454.2768	890.5197	445.7635	889.5357	445.2715	N	1306.6172	653.8122	1289.5907	645.2990	1288.6067	644.8070	12
7	1022.5732	511.7902	1005.5467	503.2770	1004.5626	502.7850	D	1171.5546	586.2809	1154.5280	577.7676	1153.5440	577.2756	11
8	1079.5947	540.3010	1062.5681	531.7877	1061.5841	531.2957	G	1056.5276	528.7674	1039.5011	520.2542			10
9	1214.6573	607.8323	1197.6308	599.3190	1196.6468	598.8270	N	999.5061	500.2567	982.4796	491.7434			9
10	1313.7258	657.3665	1296.6992	648.8532	1295.7152	648.3612	V	864.4435	432.7254	847.4169	424.2121			8
11	1410.7785	705.8929	1393.7520	697.3796	1392.7680	696.8876	P	765.3751	383.1912	748.3485	374.6779			7
12	1467.8000	734.4036	1450.7734	725.8904	1449.7894	725.3984	G	668.3223	334.6648	651.2957	326.1515			6
13	1581.8429	791.4251	1564.8164	782.9118	1563.8324	782.4198	N	611.3008	306.1541	594.2743	297.6408			5
14	1718.9018	859.9546	1701.8753	851.4413	1700.8913	850.9493	H	497.2579	249.1326	480.2314	240.6193			4
15	1846.9604	923.9838	1829.9339	915.4706	1828.9498	914.9786	Q	360.1990	180.6031	343.1724	172.0899			3
16	1903.9819	952.4946	1886.9553	943.9813	1885.9713	943.4893	G	232.1404	116.5738	215.1139	108.0606			2
17							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 11184: 1636.942848 from(819.478700, 2+) intensity(50295.8867)

Title: File2115 Spectrum8551 scans: 9683

Data file I:\2013-12-03-SIMM7721-FR1-3-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1636.9420

Fixed modifications: Carbamidomethyl (C) (apply to spec

Variable modifications:

K1 : Propionyl (K)

K11 : Propionyl (K)

K12 : Propionyl-(13CD3)Methyl (K)

Ions Score: 59 Expect: 0.00046

Matches : 12/124 fragment ions using 14 most intense peak

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							13
2	256.1656	128.5864	239.1390	120.0731			A	1453.8282	727.4177	1436.8016	718.9045	1435.8176	718.4125	12
3	385.2082	193.1077	368.1816	184.5944	367.1976	184.1024	E	1382.7911	691.8992	1365.7645	683.3859	1364.7805	682.8939	11
4	456.2452	228.6263	439.2187	220.1130	438.2347	219.6210	A	1253.7485	627.3779	1236.7219	618.8646	1235.7379	618.3726	10
5	571.2722	286.1397	554.2457	277.6265	553.2617	277.1345	D	1182.7114	591.8593	1165.6848	583.3460	1164.7008	582.8540	9
6	668.3250	334.6661	651.2984	326.1529	650.3144	325.6608	P	1067.6844	534.3459	1050.6579	525.8326			8
7	796.3836	398.6954	779.3570	390.1821	778.3730	389.6901	Q	970.6317	485.8195	953.6051	477.3062			7
8	867.4207	434.2140	850.3941	425.7007	849.4101	425.2087	A	842.5731	421.7902	825.5465	413.2769			6
9	980.5047	490.7560	963.4782	482.2427	962.4942	481.7507	I	771.5360	386.2716	754.5094	377.7583			5
10	1077.5575	539.2824	1060.5310	530.7691	1059.5469	530.2771	P	658.4519	329.7296	641.4254	321.2163			4
11	1261.6787	631.3430	1244.6521	622.8297	1243.6681	622.3377	K	561.3991	281.2032	544.3726	272.6899			3
12	1463.8377	732.4225	1446.8111	723.9092	1445.8271	723.4172	K	377.2780	189.1426	360.2514	180.6293			2
13							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **DSGPPTKKIR**

Found in **Q9H1E3**, Nuclear ubiquitous casein and cyclin-dependent kinase substrate 1 OS=Homo sapiens GN=NUCKS1 PE=1 SV=1355

Match to Query 5873: 1227.709088 from(614.861820, 2+) intensity(208671.0000)

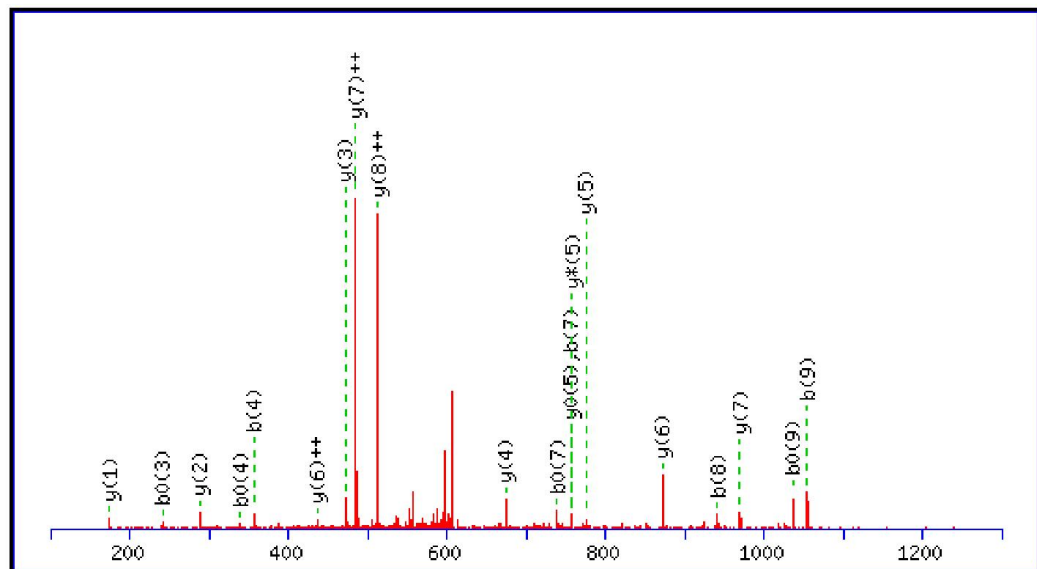
Title: File2115 Spectrum7255 scans: 8333

Data file I:\2013-12-03-SIMM7721-FR1-3-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1227.7096

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

Variable modifications:

K7 : Propionyl-(13CD3)Methyl (K)

K8 : Propionyl (K)

Ions Score: 51 Expect: 0.0032

Matches : 20/88 fragment ions using 31 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺ *	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺ *	y ⁰	y ⁰⁺⁺	#
1	116.0342	58.5207			98.0237	49.5155	D							10
2	203.0662	102.0368			185.0557	93.0315	S	1113.6899	557.3486	1096.6634	548.8353	1095.6793	548.3433	9
3	260.0877	130.0475			242.0771	121.0422	G	1026.6579	513.8326	1009.6313	505.3193	1008.6473	504.8273	8
4	357.1405	179.0739			339.1299	170.0686	P	969.6364	485.3218	952.6099	476.8086	951.6258	476.3166	7
5	454.1932	227.6003			436.1827	218.0950	P	872.5836	436.7955	855.5571	428.2822	854.5731	427.7902	6
6	555.2409	278.1241			537.2304	269.1188	T	775.5309	388.2691	758.5043	379.7558	757.5203	379.2638	5
7	757.3999	379.2036	740.3734	370.6903	739.3894	370.1983	K	674.4832	337.7452	657.4567	329.2320			4
8	941.5211	471.2642	924.4946	462.7509	923.5105	462.2589	K	472.3242	236.6657	455.2976	228.1525			3
9	1054.6052	527.8062	1037.5786	519.2930	1036.5946	518.8009	I	288.2030	144.6051	271.1765	136.0919			2
10							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **VLKNQDLAR**

Found in **P11678**, Eosinophil peroxidase OS=Homo sapiens GN=EPX PE=1 SV=2

Match to Query 4521: 1129.683328 from(565.848940, 2+) intensity(101973.9688)

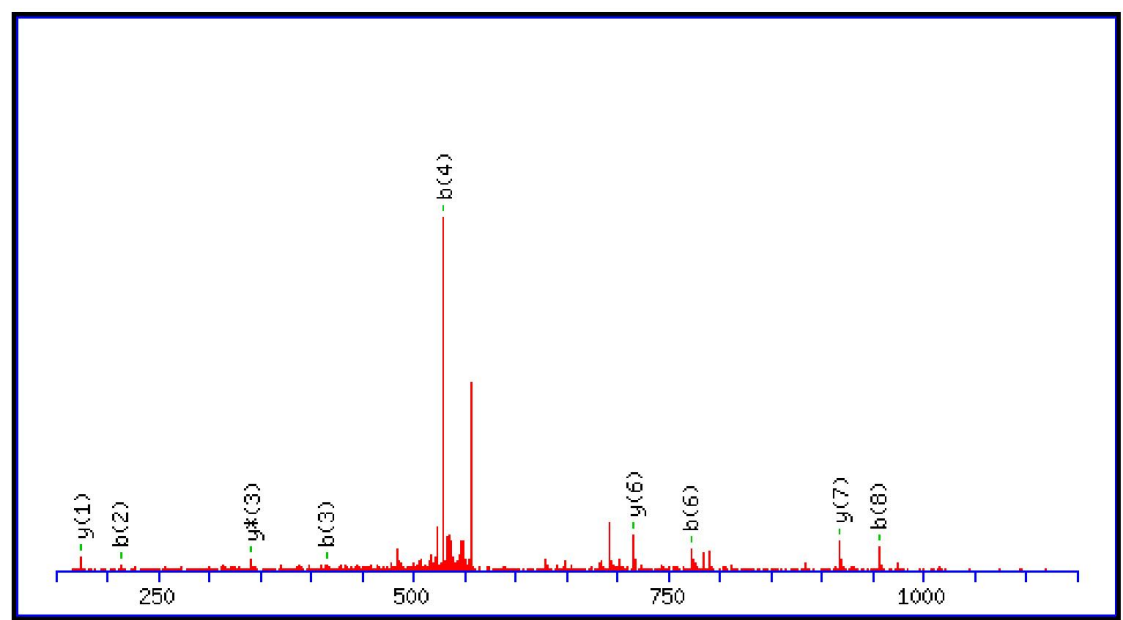
Title: File2115 Spectrum2719 scans: 3604

Data file I:\2013-12-03-SIMM7721-FR1-3-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1129.6728

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

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

Ions Score: 26 **Expect:** 0.69

Matches : 9/76 fragment ions using 20 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							9
2	213.1598	107.0835					L	1031.6117	516.3095	1014.5851	507.7962	1013.6011	507.3042	8
3	415.3188	208.1630	398.2922	199.6497			K	918.5276	459.7674	901.5010	451.2542	900.5170	450.7622	7
4	529.3617	265.1845	512.3351	256.6712			N	716.3686	358.6879	699.3420	350.1747	698.3580	349.6826	6
5	657.4203	329.2138	640.3937	320.7005			Q	602.3257	301.6665	585.2991	293.1532	584.3151	292.6612	5
6	772.4472	386.7272	755.4207	378.2140	754.4366	377.7220	D	474.2671	237.6372	457.2405	229.1239	456.2565	228.6319	4
7	885.5313	443.2693	868.5047	434.7560	867.5207	434.2640	L	359.2401	180.1237	342.2136	171.6104			3
8	956.5684	478.7878	939.5418	470.2746	938.5578	469.7826	A	246.1561	123.5817	229.1295	115.0684			2
9							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of VKQGKDQNKAR

Found in **B4DYJ6**, E3 ubiquitin-protein ligase TRIP12 OS=Homo sapiens GN=TRIP12 PE=2 SV=1

Match to Query 8827: 1456.827128 from(729.420840, 2+) intensity(31586.7031)

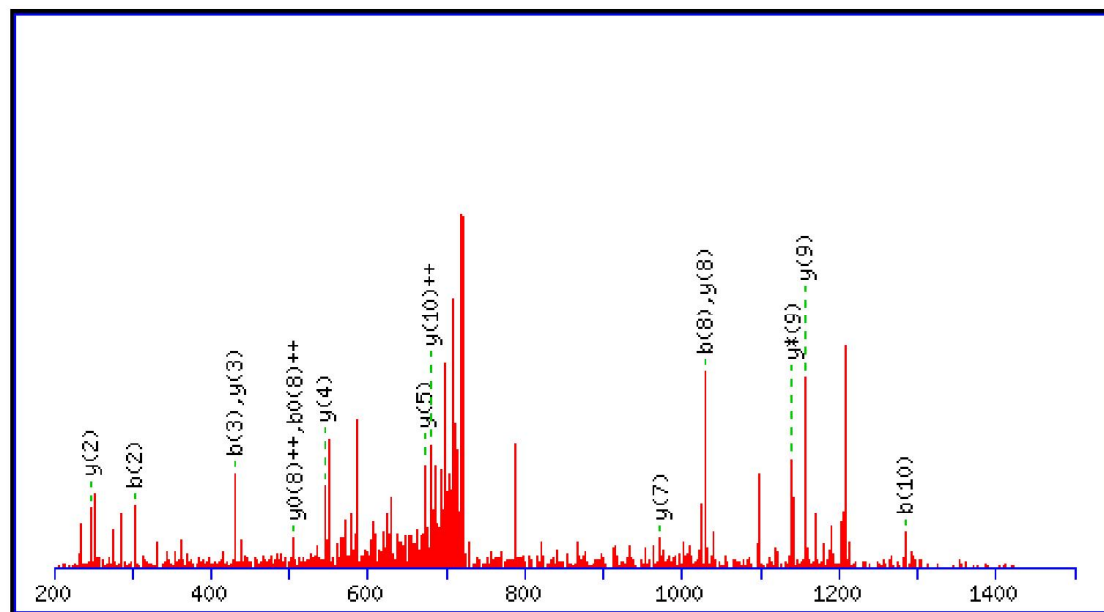
Title: File2115 Spectrum4011 scans: 4951

Data file I:\2013-12-03-SIMM7721-FR1-3-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1456.8270

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K5 : Propionyl (K)

K9 : Propionyl (K)

Ions Score: 23 Expect: 2.3

Matches : 15/98 fragment ions using 39 most intense peaks

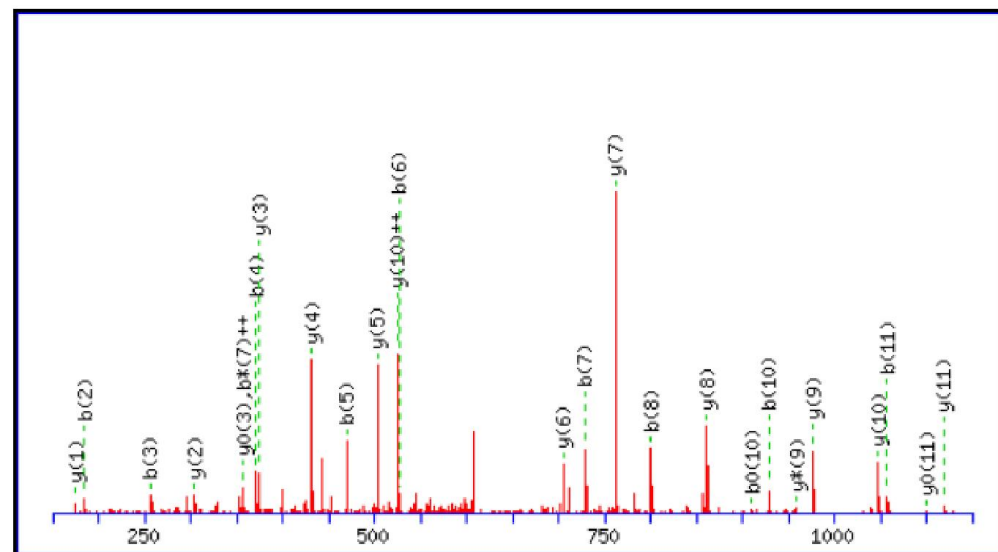
#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							11
2	302.2347	151.6210	285.2082	143.1077			K	1358.7659	679.8866	1341.7394	671.3733	1340.7554	670.8813	10
3	430.2933	215.6503	413.2667	207.1370			Q	1156.6069	578.8071	1139.5804	570.2938	1138.5963	569.8018	9
4	487.3147	244.1610	470.2882	235.6477			G	1028.5483	514.7778	1011.5218	506.2645	1010.5378	505.7725	8
5	671.4359	336.2216	654.4094	327.4083			K	971.5269	486.2671	954.5003	477.7538	953.5163	477.2618	7
6	786.4629	393.7351	769.4363	385.2218	768.4523	384.7298	D	787.4057	394.2065	770.3791	385.6932	769.3951	385.2012	6
7	914.5214	457.7644	897.4949	449.2511	896.5109	448.7591	Q	672.3787	336.6930	655.3522	328.1797			5
8	1028.5644	514.7858	1011.5378	506.2725	1010.5538	505.7805	N	544.3202	272.6637	527.2936	264.1504			4
9	1212.6855	606.8464	1195.6590	598.3331	1194.6750	597.8411	K	430.2772	215.6423	413.2507	207.1290			3
10	1283.7227	642.3650	1266.6961	633.8517	1265.7121	633.3597	A	246.1561	123.5817	229.1295	115.0684			2
11							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 6716: 1230.681988 from(616.348270,2+) intensity(1657435.8750)

Title: File2112 Spectrum5968 scans: 7006

Data file I:\2013-12-03-SIMM7721-FR1-2-ZW.mgf

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

Or, 150 1150 Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1230.6841

Fixed modifications: Carbamidomethyl (C) (apply to specified r

Variable modifications:

K7 : Propionyl-(13CD3)Methyl (K)

Ions Score: 93 Expect: 2.1e-007

Matches : 26/112 fragment ions using 40 most intense peaks (

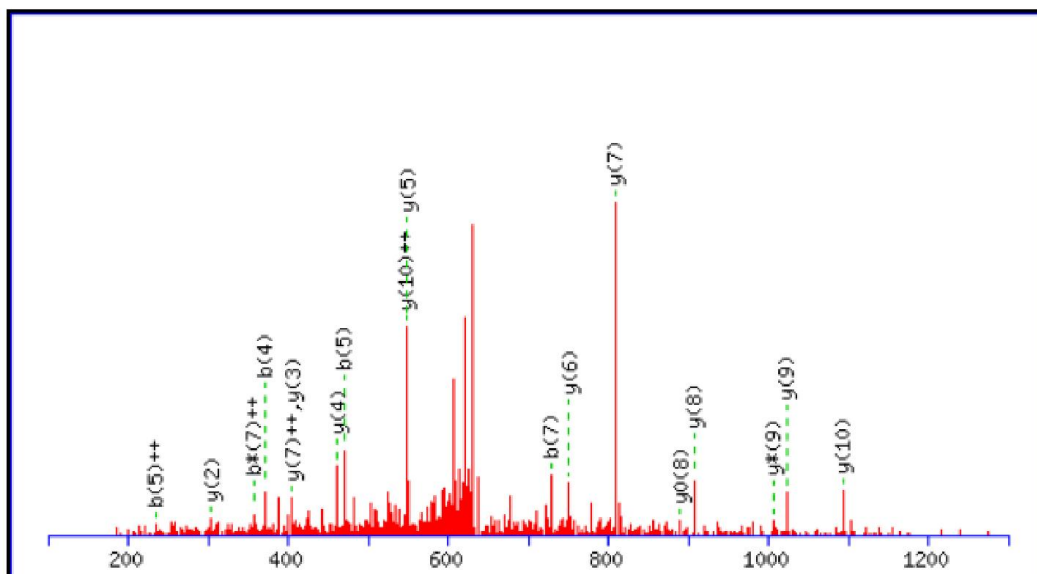
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							12
2	185.1285	93.0679					A	1118.6073	559.8073	1101.5808	551.2940	1100.5967	550.8020	11
3	256.1656	128.5864					A	1047.5702	524.2887	1030.5436	515.7755	1029.5596	515.2834	10
4	371.1925	186.0999			353.1819	177.0946	D	976.5331	488.7702	959.5065	480.2569	958.5225	479.7649	9
5	470.2609	235.6341			452.2504	226.6288	V	861.5061	431.2567	844.4796	422.7434	843.4956	422.2514	8
6	527.2824	264.1448			509.2718	255.1396	G	762.4377	381.7225	745.4112	373.2092	744.4271	372.7172	7
7	729.4414	365.2243	712.4149	356.7111	711.4308	356.2191	K	705.4163	353.2118	688.3897	344.6985	687.4057	344.2065	6
8	800.4785	400.7429	783.4520	392.2296	782.4680	391.7376	A	503.2572	252.1323	486.2307	243.6190	485.2467	243.1270	5
9	857.5000	429.2536	840.4734	420.7404	839.4894	420.2483	G	432.2201	216.6137	415.1936	208.1004	414.2096	207.6084	4
10	928.5371	464.7722	911.5105	456.1589	910.5265	455.7669	A	375.1987	188.1030	358.1721	179.5897	357.1881	179.0977	3
11	1057.5797	529.2935	1040.5531	520.7802	1039.5691	520.2882	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
12							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 7342: 1276.688948 from(639.351750,2+) intensity(41894.8672)

Title: File2112 Spectrum5407 scans: 6420

Data file I:\2013-12-03-SIMM7721-FR1-2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1276.6896

Fixed modifications: Carbamidomethyl (C) (apply to specified)

Variable modifications:

K7 : Propionyl-(13CD3)Methyl (K)

Ions Score: 61 Expect: 0.00033

Matches : 18/112 fragment ions using 33 most intense peaks

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							12
2	185.1285	93.0679					A	1164.6128	582.8100	1147.5862	574.2968	1146.6022	573.8047	11
3	256.1656	128.5864					A	1093.5757	547.2915	1076.5491	538.7782	1075.5651	538.2862	10
4	371.1925	186.0999			353.1819	177.0946	D	1022.5386	511.7729	1005.5120	503.2596	1004.5280	502.7676	9
5	470.2609	235.6341			452.2504	226.6280	V	907.5116	454.2594	890.4851	445.7462	889.5010	445.2542	8
6	527.2824	264.1448			509.2718	255.1396	G	808.4432	404.7252	791.4166	396.2120	790.4326	395.7200	7
7	729.4414	365.2243	712.4149	356.7111	711.4308	356.2191	K	751.4217	376.2145	734.3952	367.7012	733.4112	367.2092	6
8	816.4734	408.7404	799.4469	400.2271	798.4629	399.7351	S	549.2627	275.1350	532.2362	266.6217	531.2522	266.1297	5
9	873.4949	437.2511	856.4683	428.7378	855.4843	428.2458	G	462.2307	231.6190	445.2041	223.1057	444.2201	222.6137	4
10	974.5426	487.7749	957.5160	479.2617	956.5320	478.7696	T	405.2092	203.1082	388.1827	194.5950	387.1987	194.1030	3
11	1103.5852	552.2962	1086.5586	543.7829	1085.5746	543.2909	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
12							R	175.1190	88.0631	158.0924	79.5498			1

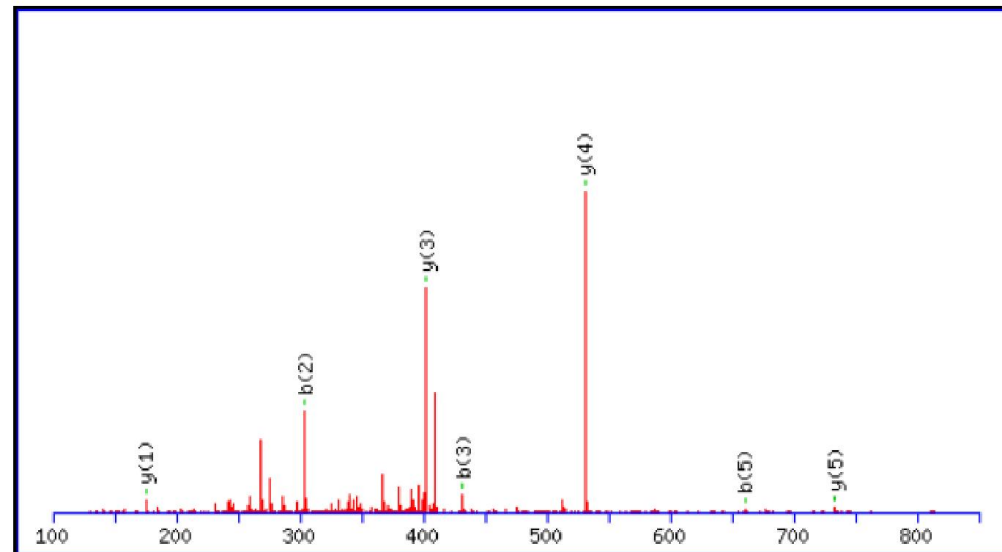
Found in **H0YLC9**, TERF1-interacting nuclear factor 2 (Fragment) OS=Homo sapiens GN=TINF2 PE=2 SV=1

Match to Query 1020: 833.487028 from(417.750790,2+) intensity(730602.7500)

Title: File2112 Spectrum3917 scans: 4863

Data file I:\2013-12-03-SIMM7721-FR1-2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 833.4879

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

Ions Score: 40 Expect: 0.028

Matches : 7/54 fragment ions using 7 most intense peaks

(he)

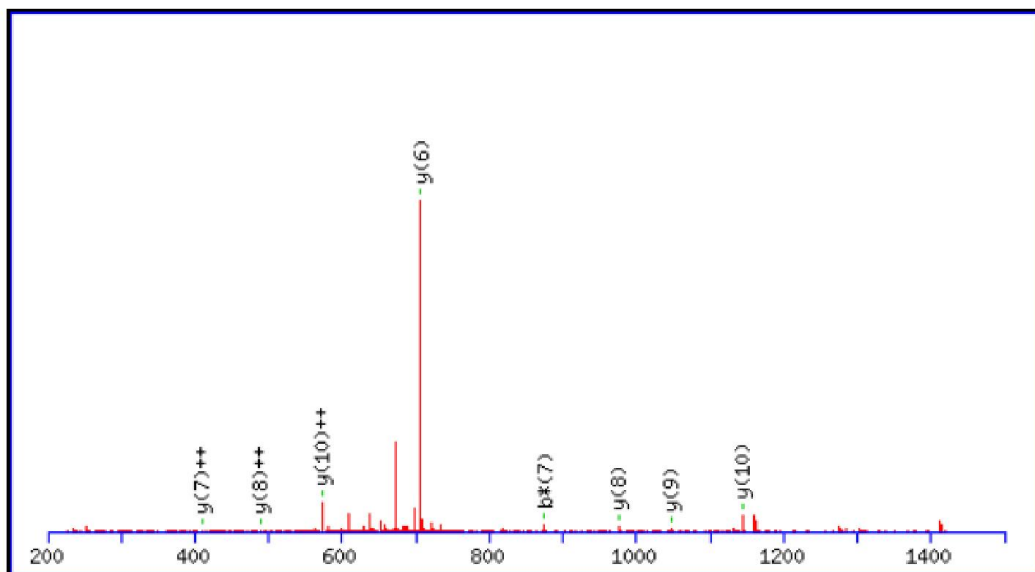
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	102.0550	51.5311			84.0444	42.5258	T							6
2	304.2140	152.6106	287.1874	144.0973	286.2034	143.6053	K	733.4476	367.2274	716.4210	358.7141	715.4370	358.2221	5
3	432.2725	216.6399	415.2460	208.1266	414.2620	207.6346	Q	531.2885	266.1479	514.2620	257.6346	513.2780	257.1426	4
4	547.2995	274.1534	530.2729	265.6401	529.2889	265.1481	D	403.2300	202.1186	386.2034	193.6053	385.2194	193.1133	3
5	660.3836	330.6954	643.3570	322.1821	642.3730	321.6901	L	288.2030	144.6051	271.1765	136.0919			2
6							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 10098: 1482.909528 from(742.462040,2+) intensity(300035.4063)

Title: File2112 Spectrum4086 scans: 5039

Data file I:\2013-12-03-SIMM7721-FR1-2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1482.9154

Fixed modifications: Carbamidomethyl (C) (apply to specified)

Variable modifications:

K2 : Propionyl (K)

K12 : Propionyl-(13CD3)Methyl (K)

Ions Score: 25 Expect: 0.52

Matches : 8/114 fragment ions using 12 most intense peaks

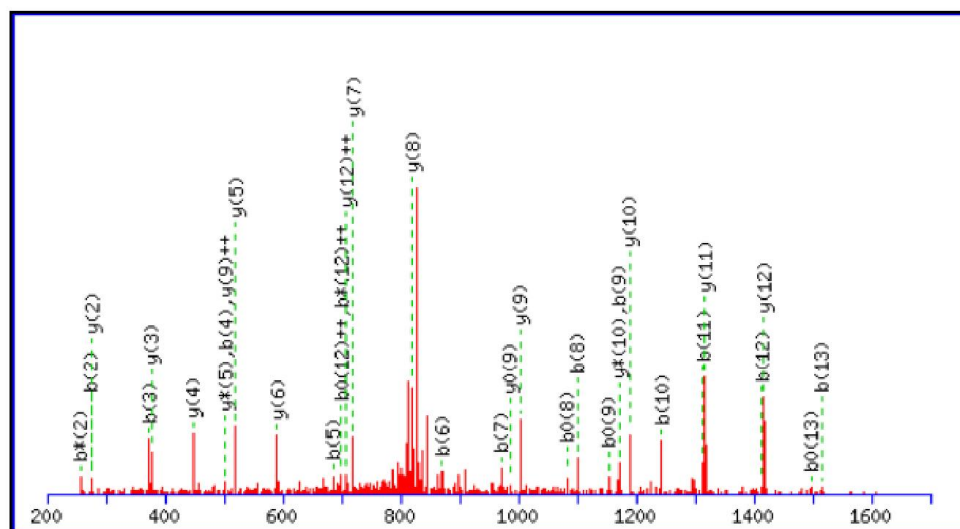
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	157.1084	79.0578	140.0818	70.5446			R							12
2	341.2296	171.1184	324.2030	162.6051			K	1327.8216	664.4145	1310.7951	655.9012	1309.8111	655.4092	11
3	438.2823	219.6448	421.2558	211.1315			P	1143.7005	572.3539	1126.6739	563.8406	1125.6899	563.3486	10
4	509.3194	255.1634	492.2929	246.6501			A	1046.6477	523.8275	1029.6212	515.3142	1028.6371	514.8222	9
5	665.4206	333.2139	648.3940	324.7006			R	975.6106	488.3089	958.5840	479.7957	957.6000	479.3037	8
6	778.5046	389.7559	761.4781	381.2427			L	819.5095	410.2584	802.4829	401.7451	801.4989	401.2531	7
7	891.5887	446.2980	874.5621	437.7847			L	706.4254	353.7163	689.3989	345.2031	688.4149	344.7111	6
8	1020.6313	510.8193	1003.6047	502.3060	1002.6207	501.8140	E	593.3414	297.1743	576.3148	288.6610	575.3308	288.1690	5
9	1091.6684	546.3378	1074.6418	537.8246	1073.6578	537.3326	A	464.2988	232.6530	447.2722	224.1397	446.2882	223.6477	4
10	1192.7161	596.8617	1175.6895	588.3484	1174.7055	587.8564	T	393.2616	197.1345	376.2351	188.6212	375.2511	188.1292	3
11	1263.7532	632.3802	1246.7266	623.8670	1245.7426	623.3749	A	292.2140	146.6106	275.1874	138.0973			2
12							K	221.1769	111.0921	204.1503	102.5788			1

Match to Query 12255: 1688.955548 from(845.485050,2+) intensity(49416.4219)

Title: File2112 Spectrum7809 scans: 8925

Data file I:\2013-12-03-SIMM7721-FR1-2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1688.9581

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K5 : Propionyl (K)

K6 : Propionyl (K)

Ions Score: 76 Expect: 1.1e-005

Matches : 34/146 fragment ions using 56 most intense peaks [\(help\)](#)

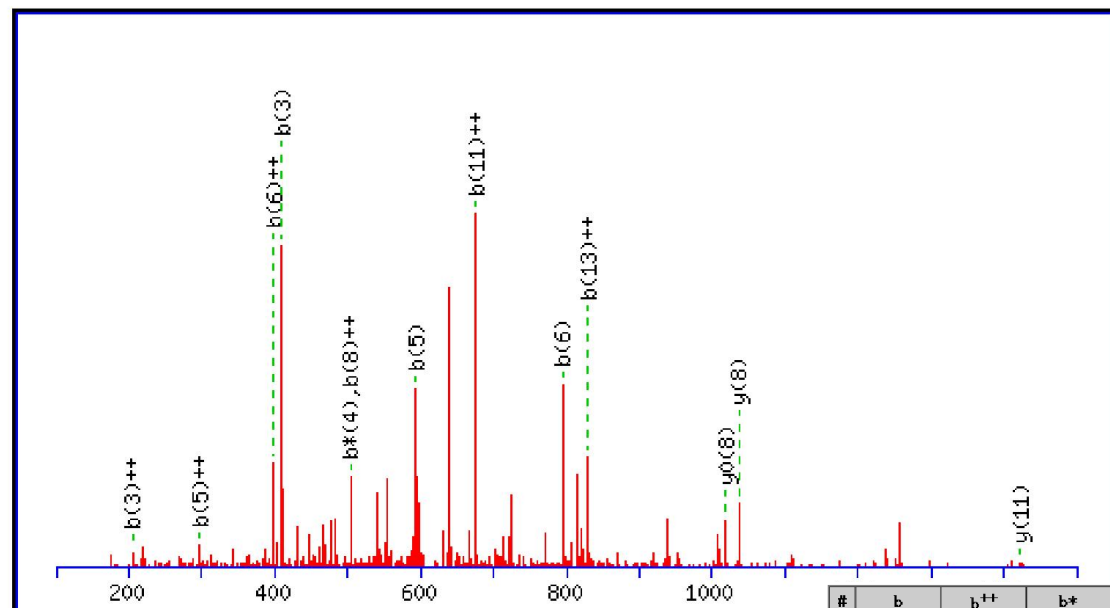
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							14
2	274.2034	137.6053	257.1769	129.0921			K	1618.9283	809.9678	1601.9018	801.4545	1600.9177	800.9625	13
3	373.2718	187.1395	356.2453	178.6263			V	1416.7693	708.8883	1399.7427	700.3750	1398.7587	699.8830	12
4	502.3144	251.6608	485.2879	243.1476	484.3038	242.6556	E	1317.7009	659.3541	1300.6743	650.8408	1299.6903	650.3488	11
5	686.4356	343.7214	669.4090	335.2082	668.4250	334.7161	K	1188.6583	594.8328	1171.6317	586.3195	1170.6477	585.8275	10
6	870.5568	435.7820	853.5302	427.2687	852.5462	426.7767	K	1004.5371	502.7722	987.5106	494.2589	986.5265	493.7669	9
7	971.6044	486.3059	954.5779	477.7926	953.5939	477.3006	T	820.4159	410.7116	803.3894	402.1983	802.4054	401.7063	8
8	1100.6470	550.8272	1083.6205	542.3139	1082.6365	541.8219	E	719.3682	360.1878	702.3417	351.6745	701.3577	351.1825	7
9	1171.6842	586.3457	1154.6576	577.8324	1153.6736	577.3404	A	590.3257	295.6665	573.2991	287.1532	572.3151	286.6612	6
10	1242.7213	621.8643	1225.6947	613.3510	1224.7107	612.8590	A	519.2885	260.1479	502.2620	251.6346	501.2780	251.1426	5
11	1313.7584	657.3828	1296.7318	648.8696	1295.7478	648.3775	A	448.2514	224.6293	431.2249	216.1161	430.2409	215.6241	4
12	1414.8061	707.9067	1397.7795	699.3934	1396.7955	698.9014	T	377.2143	189.1108	360.1878	180.5975	359.2037	180.1055	3
13	1515.8537	758.4305	1498.8272	749.9172	1497.8432	749.4252	T	276.1666	138.5870	259.1401	130.0737	258.1561	129.5817	2
14							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 13482: 1829.997222 from(611.006350, 3+) intensity(2895879.0000)

Title: File2104 Spectrum6401 scans: 7647

Data file I:\2013-12-03-SIMM7721-FR1-1-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1830.****Fixed modifications:** Carbamidomethyl (C) (apply to spec)**Variable modifications:****K6** : Propionyl-(13CD3)Methyl (K)**M12** : Label:13C(1)2H(3)+Oxidation (M)**Ions Score: 24 Expect: 2.5****Matches : 13/134 fragment ions using 26 most intense peak**

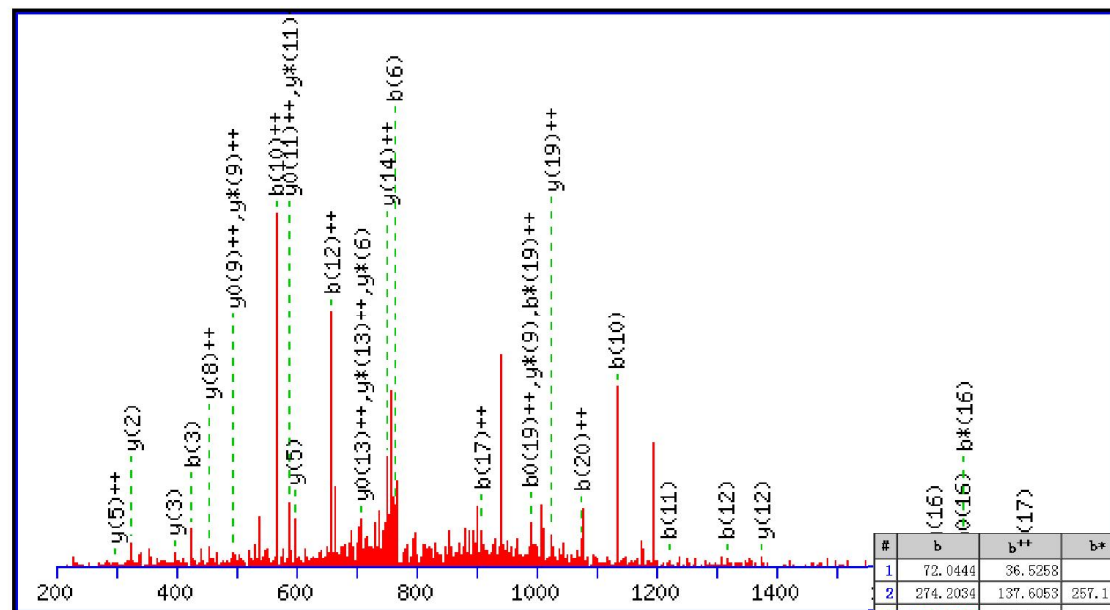
#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	148.0757	74.5415					F							14
2	295.1441	148.0757					F	1683.9504	842.4789	1666.9239	833.9656	1665.9399	833.4736	13
3	409.1870	205.0972	392.1605	196.5839			N	1536.8820	768.9447	1519.8555	760.4314	1518.8715	759.9394	12
4	522.2711	261.6392	505.2445	253.1259			I	1422.8391	711.9232	1405.8126	703.4099	1404.8285	702.9179	11
5	593.3082	297.1577	576.2817	288.6445			A	1309.7550	655.3812	1292.7285	646.8679	1291.7445	646.3759	10
6	795.4672	398.2372	778.4407	389.7240			K	1238.7179	619.8626	1221.6914	611.3493	1220.7074	610.8573	9
7	910.4942	455.7507	893.4676	447.2374	892.4836	446.7454	D	1036.5589	518.7831	1019.5324	510.2698	1018.5483	509.7778	8
8	1007.5469	504.2771	990.5204	495.7638	989.5364	495.2718	P	921.5320	461.2696	904.5054	452.7563	903.5214	452.2643	7
9	1163.6480	582.3277	1146.6215	573.8144	1145.6375	573.3224	R	824.4792	412.7432	807.4527	404.2300	806.4686	403.7380	6
10	1262.7165	631.8619	1245.6899	623.3486	1244.7059	622.8566	V	668.3781	334.6927	651.3515	326.1794	650.3675	325.6874	5
11	1349.7485	675.3779	1332.7219	666.8646	1331.7379	666.3726	S	569.3097	285.1585	552.2831	276.6452	551.2991	276.1532	4
12	1500.8061	750.9067	1483.7795	742.3934	1482.7955	741.9014	I	482.2776	241.6425	465.2511	233.1292			3
13	1656.9072	828.9572	1639.8806	820.4440	1638.8966	819.9519	R	331.2201	166.1137	314.1935	157.6004			2
14							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 16837: 2325.226092 from(776.082640, 3+) intensity(31604.5781)

Title: File2104 Spectrum16391 scans: 18054

Data file I:\2013-12-03-SIMM7721-FR1-1-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 2324.211

Fixed modifications: Carbamidomethyl (C) (apply to specific)

Variable modifications:

K2 : Propionyl-(13C3)Methyl (K)
M3 : Label:13C(1)2H(3)+Oxidation (M)
M5 : Label:13C(1)2H(3)+Oxidation (M)
K10 : Propionyl (K)
M20 : Label:13C(1)2H(3)+Oxidation (M)

Ions Score: 21 Expect: 6.3

Matches : 31/224 fragment ions using 76 most intense peaks

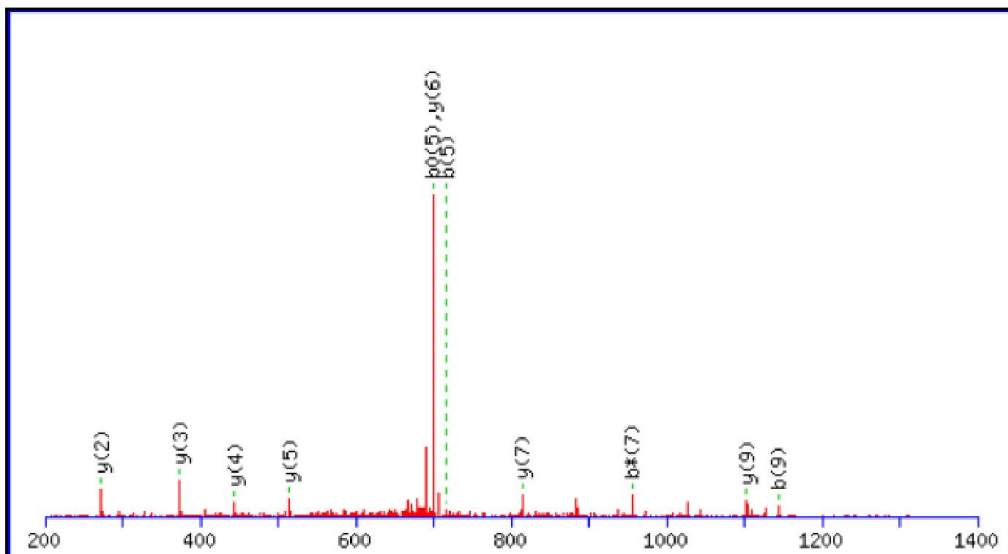
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1	72.0444	36.5258					A							21
2	274.2034	137.6053	257.1769	129.0921			K	2254.1814	1127.5944	2237.1549	1119.0811	2236.1709	1118.5891	20
3	425.2610	213.1341	408.2344	204.6209			N	2052.0224	1026.5148	2034.9959	1018.0016	2034.0119	1017.5096	19
4	512.2930	256.6501	495.2665	248.1369	494.2825	247.6449	S	1900.9648	950.9861	1883.9383	942.4728	1882.9543	941.9808	18
5	663.3506	332.1789	646.3241	323.6657	645.3400	323.1737	N	1813.9328	907.4700	1796.9063	898.9568	1795.9222	898.4648	17
6	764.3983	382.7028	747.3717	374.1895	746.3877	373.6975	T	1662.8752	831.9412	1645.8487	823.4280	1644.8647	822.9360	16
7	821.4197	411.2135	804.3932	402.7002	803.4092	402.2082	G	1561.8275	781.4174	1544.8010	772.9041	1543.8170	772.4121	15
8	892.4569	446.7321	875.4303	438.2188	874.4463	437.7268	A	1504.8061	752.9067	1487.7795	744.3934	1486.7955	743.9014	14
9	949.4783	475.2428	932.4518	466.7295	931.4678	466.2375	G	1433.7690	717.3881	1416.7424	708.8748	1415.7584	708.3828	13
10	1133.5995	567.3034	1116.5730	558.7901	1115.5889	558.2981	K	1376.7475	688.8774	1359.7209	680.3641	1358.7369	679.8721	12
11	1220.6315	610.8194	1203.6050	602.3061	1202.6210	601.8141	S	1192.6263	596.8168	1175.5998	588.3035	1174.6158	587.8115	11
12	1317.6843	659.3458	1300.6577	650.8325	1299.6737	650.3405	P	1105.5943	553.3008	1088.5677	544.7875	1087.5837	544.2955	10
13	1414.7371	707.3722	1397.7105	699.3589	1396.7265	698.8669	P	1008.5415	504.7744	991.5150	496.2611	990.5310	495.7691	9
14	1501.7691	751.3882	1484.7425	742.8749	1483.7585	742.3829	S	911.4888	456.2480	894.4622	447.7347	893.4782	447.2427	8
15	1600.8375	800.9224	1583.8109	792.4091	1582.8269	791.9171	V	824.4567	412.7320	807.4302	404.2187	806.4462	403.7267	7
16	1728.8961	864.9517	1711.8695	856.4384	1710.8855	855.9464	Q	725.3883	363.1978	708.3618	354.6845	707.3778	354.1925	6
17	1815.9281	908.4677	1798.9016	899.9544	1797.9175	899.4624	S	597.3297	299.1685	580.3032	290.6552	579.3192	290.1632	5
18	1929.0122	965.0097	1911.9856	956.4964	1911.0018	956.0044	L	510.2977	255.6525	493.2712	247.1392			4
19	2000.0493	1000.5283	1983.0227	992.0150	1982.0387	991.5230	A	397.2137	199.1105	380.1871	190.5972			3
20	2151.1069	1076.0571	2134.0803	1067.5438	2133.0963	1067.0518	N	326.1765	163.5919	309.1500	155.0786			2
21							R	175.1190	88.0631	168.0924	79.5498			1

Match to Query 10119: 1414.804668 from(708.409610,2+) intensity(40852.3359)

Title: File2098 Spectrum5940 scans: 6907

Data file I:\2013-12-05-SIMM7721-FR3-ZW.mgf

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

Or, 200 1400 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1414.8052

Fixed modifications: Carbamidomethyl (C) (apply to specified)

Variable modifications:

K2 : Propionyl (K)

K4 : Propionyl-(13CD3)Methyl (K)

K6 : Propionyl (K)

Ions Score: 62 Expect: 0.00029

Matches : 11/112 fragment ions using 12 most intense peaks

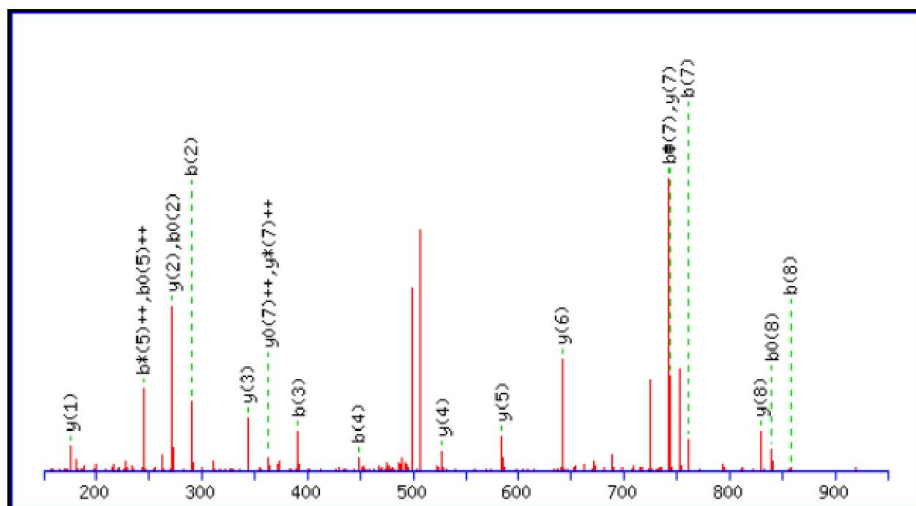
#	b	b ⁺⁺	b*	b ^{***}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	129.0659	65.0366	112.0393	56.5233			Q							11
2	313.1870	157.0972	296.1605	148.5839			K	1287.7540	644.3806	1270.7274	635.8673	1269.7434	635.3753	10
3	400.2191	200.6132	383.1925	192.0999	382.2085	191.6079	S	1103.6328	552.3200	1086.6062	543.8068	1085.6222	543.3147	9
4	602.3781	301.6927	585.3515	293.1794	584.3675	292.6874	K	1016.6008	508.8040	999.5742	500.2907	998.5902	499.7987	8
5	717.4050	359.2061	700.3785	350.6929	699.3945	350.2009	D	814.4417	407.7245	797.4152	399.2112	796.4312	398.7192	7
6	901.5262	451.2667	884.4996	442.7535	883.5156	442.2615	K	699.4148	350.2110	682.3883	341.6978	681.4042	341.2058	6
7	972.5633	486.7853	955.5368	478.2720	954.5527	477.7800	A	515.2936	258.1504	498.2671	249.6372	497.2831	249.1452	5
8	1043.6004	522.3038	1026.5739	513.7906	1025.5899	513.2986	A	444.2565	222.6319	427.2300	214.1186	426.2459	213.6266	4
9	1144.6481	572.8277	1127.6216	564.3144	1126.6375	563.8224	T	373.2194	187.1133	356.1928	178.6001	355.2088	178.1081	3
10	1241.7009	621.3541	1224.6743	612.8408	1223.6903	612.3488	P	272.1717	136.5895	255.1452	128.0762			2
11							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 3734: 1030.605328 from(516.309940,2+) intensity(1718561.0000)

Title: File2098 Spectrum1118 scans: 1738

Data file I:\2013-12-05-SIMM7721-FR3-ZW.mgf

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

Or, 150 950 Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1030.6044

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

K6 : Propionyl (K)

Ions Score: 78 Expect: 5.4e-006

Matches : 21/82 fragment ions using 24 most intense peaks ([help](#))

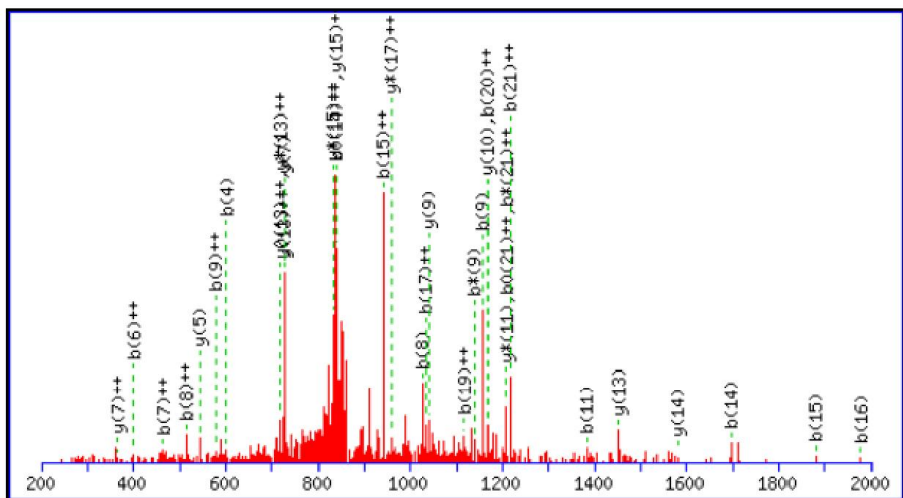
#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							9
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	S	829.4526	415.2300	812.4261	406.7167	811.4421	406.2247	8
3	391.2460	196.1266	374.2194	187.6134	373.2354	187.1214	T	742.4206	371.7139	725.3941	363.2007	724.4100	362.7087	7
4	448.2675	224.6374	431.2409	216.1241	430.2569	215.6321	G	641.3729	321.1901	624.3464	312.6768			6
5	505.2889	253.1481	488.2624	244.6348	487.2784	244.1428	G	584.3515	292.6794	567.3249	284.1661			5
6	689.4101	345.2087	672.3836	336.6954	671.3995	336.2034	K	527.3300	264.1686	510.3035	255.6554			4
7	760.4472	380.7272	743.4207	372.2140	742.4367	371.7220	A	343.2088	172.1081	326.1823	163.5948			3
8	857.5000	429.2536	840.4734	420.7404	839.4894	420.2483	P	272.1717	136.5895	255.1452	128.0762			2
9							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 18785: 2606.383092 from(869.801640,3+) intensity(51321.1563)
 Title: File2098 Spectrum9005 scans: 10134
 Data file I:\2013-12-05-SIMM7721-FR3-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



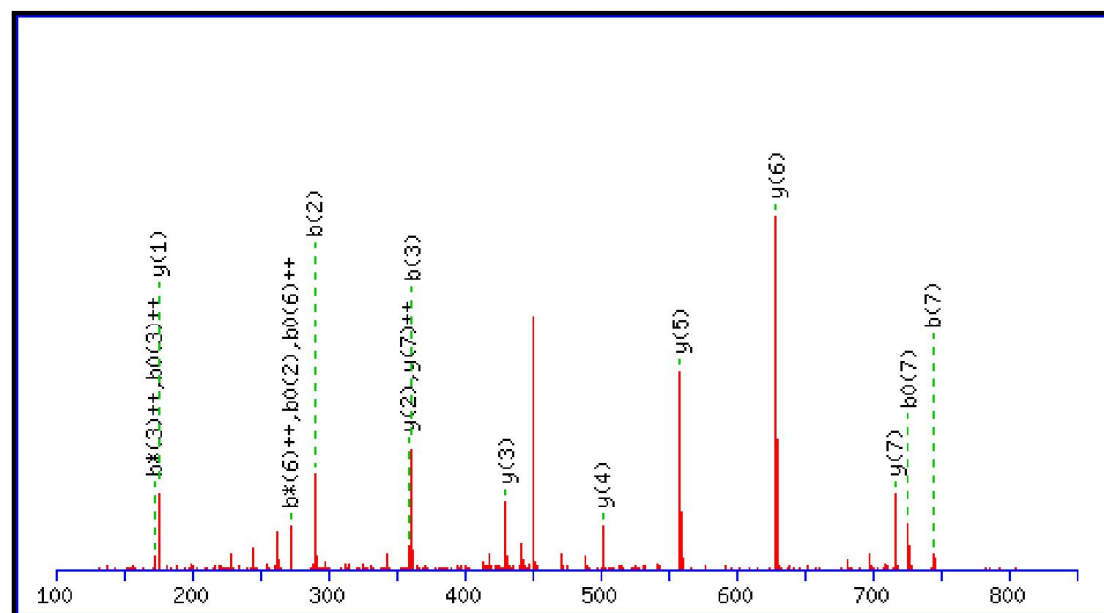
Monoisotopic mass of neutral peptide Mr(calc): 2606.3824
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)
 Variable modifications:
 K1 : Propionyl (K)
 K3 : Propionyl-(13CD3)Methyl (K)
 K15 : Propionyl (K)
 Ions Score: 31 Expect: 0.61
 Matches : 35/242 fragment ions using 79 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							22
2	284.1969	142.6021	267.1703	134.0888			V	2423.2685	1212.1379	2406.2420	1203.6246	2405.2580	1203.1326	21
3	486.3559	243.6816	469.3293	235.1683			K	2324.2001	1162.6037	2307.1736	1154.0904	2306.1896	1153.5984	20
4	601.3828	301.1951	584.3563	292.6818	583.3723	292.1898	D	2122.0411	1061.5242	2105.0146	1053.0109	2104.0305	1052.5189	19
5	672.4199	336.7136	655.3934	328.2003	654.4094	327.7083	A	2007.0142	1004.0107	1989.9876	995.4974	1989.0036	995.0054	18
6	800.4785	400.7429	783.4520	392.2296	782.4680	391.7376	Q	1935.9770	968.4922	1918.9505	959.9789	1917.9665	959.4869	17
7	928.5371	464.7722	911.5105	456.2589	910.5265	455.7669	Q	1807.9185	904.4629	1790.8919	895.9496	1789.9079	895.4576	16
8	1027.6055	514.3064	1010.5790	505.7931	1009.5949	505.3011	V	1679.8599	840.4336	1662.8333	831.9203	1661.8493	831.4283	15
9	1156.6481	578.8277	1139.6216	570.3144	1138.6375	569.8224	E	1580.7915	790.8994	1563.7649	782.3861	1562.7809	781.8941	14
10	1253.7009	627.3541	1236.6743	618.8408	1235.6903	618.3488	P	1451.7489	726.3781	1434.7223	717.8648	1433.7383	717.3728	13
11	1382.7435	691.8754	1365.7169	683.3621	1364.7329	682.8701	E	1354.6961	677.8517	1337.6696	669.3384	1336.6856	668.8464	12
12	1439.7649	720.3861	1422.7384	711.8728	1421.7544	711.3808	G	1225.6535	613.3304	1208.6270	604.8171	1207.6430	604.3251	11
13	1567.8235	784.4154	1550.7970	775.9021	1549.8129	775.4101	Q	1168.6321	584.8197	1151.6055	576.3064	1150.6215	575.8144	10
14	1696.8661	848.9367	1679.8395	840.4234	1678.8555	839.9314	E	1040.5735	520.7904	1023.5469	512.2771	1022.5629	511.7851	9
15	1880.9873	940.9973	1863.9607	932.4840	1862.9767	931.9920	K	911.5309	456.2691	894.5043	447.7558	893.5203	447.2638	8
16	1978.0400	989.5237	1961.0135	981.0104	1960.0295	980.5184	P	727.4097	364.2085	710.3832	355.6952	709.3991	355.2032	7
17	2065.0721	1033.0397	2048.0455	1024.5264	2047.0615	1024.0344	S	630.3570	315.6821	613.3304	307.1688	612.3464	306.6768	6
18	2162.1248	1081.5661	2145.0983	1073.0528	2144.1143	1072.5608	P	543.3249	272.1661	526.2984	263.6528	525.3144	263.1608	5
19	2233.1619	1117.0846	2216.1354	1108.5713	2215.1514	1108.0793	A	446.2722	223.6397	429.2456	215.1264	428.2616	214.6344	4
20	2334.2096	1167.6084	2317.1831	1159.0952	2316.1991	1158.6032	T	375.2350	188.1212	358.2085	179.6079	357.2245	179.1159	3
21	2433.2780	1217.1427	2416.2515	1208.6294	2415.2675	1208.1374	V	274.1874	137.5973	257.1608	129.0840			2
22							R	175.1190	88.0631	158.0924	79.5498			1

Found in **P10412**, Histone H1.4 OS=Homo sapiens GN=HIST1H1E PE=1 SV=2

Match to Query 1072: 917.558868 from(459.786710, 2+) intensity(306989.3438)
 Title: File2082 Spectrum3083 scans: 3873
 Data file I:\2013-12-05-SIMM7721-FR2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 917.5567

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)**K7** : Propionyl (K)Ions Score: 63 **Expect:** 0.00012**Matches** : 17/70 fragment ions using 21 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							8
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	S	716.4050	358.7061	699.3784	350.1923	698.3944	349.7008	7
3	361.2354	181.1214	344.2089	172.6081	343.2249	172.1161	A	629.3729		315.1901	612.3464	306.6763		6
4	418.2569	209.6321	401.2303	201.1188	400.2463	200.6268	G	558.3358	279.6715	541.3093	271.1583			5
5	489.2940	245.1506	472.2675	236.6374	471.2834	236.1454	A	501.3144	251.1608	484.2878	242.6475			4
6	560.3311	280.6692	543.3046	272.1559	542.3206	271.6639	A	430.2772	215.6423	413.2507	207.1290			3
7	744.4523	372.7298	727.4258	364.2165	726.4417	363.7245	K	359.2401	180.1237	342.2136	171.6104			2
8							R	175.1190	88.0631	158.0924	79.5498			1

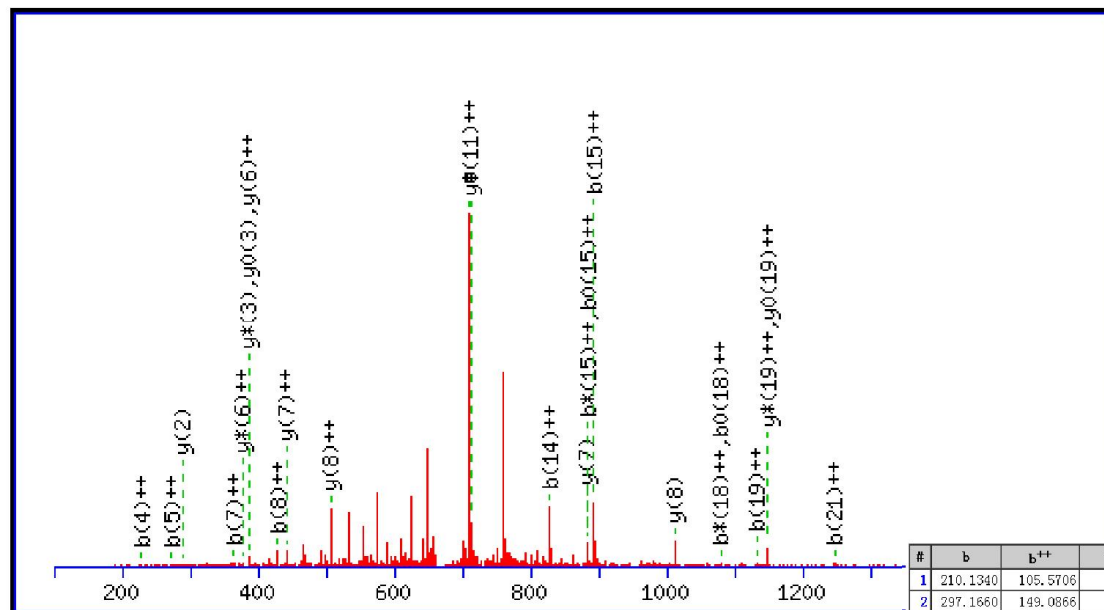
Found in **Q7Z3U7**, Protein MON2 homolog OS=Homo sapiens GN=MON2 PE=1 SV=2

Match to Query 179392666.420096 from(667.612300, 4+) intensity(304631.7500)

Title: File2082 Spectrum19148 scans: 20680

Data file I:\2013-12-05-SIMM7721-FR2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 2666.4353****Fixed modifications:** Carbamidomethyl (C) (apply to specified)**Variable modifications:****N-term :** Propionyl-(13CD3)Methyl (Protein N-term)**M1 :** Label:13C(1)2H(3) (M)**K11 :** Propionyl-(13CD3)Methyl (K)**K12 :** Propionyl-(13CD3)Methyl (K)**M17 :** Label:13C(1)2H(3)+Oxidation (M)**Ions Score: 22 Expect: 4.5****Matches : 25/226 fragment ions using 53 most intense peaks**

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	210.1340	105.5706					I							22
2	297.1660	149.0866			279.1555	140.0814	S	2458.3159	1229.6616	2441.2894	1221.1483	2440.3054	1220.6563	21
3	354.1875	177.5974			336.1769	168.5921	G	2371.2839	1186.1456	2354.2574	1177.6323	2353.2733	1177.1403	20
4	455.2352	238.1212			437.2246	219.1159	T	2314.2624	1157.6349	2297.2359	1149.1216	2296.2519	1148.6296	19
5	542.2632	271.6372			524.2566	262.6320	S	2213.2148	1107.1110	2196.1882	1098.5977	2195.2042	1098.1057	18
6	629.2992	315.1532			611.2887	306.1480	S	2126.1827	1063.5950	2109.1562	1065.0817	2108.1722	1054.5897	17
7	726.3520	363.6796			708.3414	354.6743	P	2039.1507	1020.0790	2022.1242	1011.5657	2021.1401	1011.0737	16
8	855.3946	428.2009			837.3840	419.1956	E	1942.0979	971.5526	1925.0714	963.0393	1924.0874	962.5473	15
9	926.4317	463.7195			908.4211	454.7142	A	1813.0554	907.0313	1796.0288	898.5180	1795.0448	898.0260	14
10	1025.5001	513.2537			1007.4895	504.2484	V	1742.0182	871.5128	1724.9917	862.9996	1724.0077	862.5075	13
11	1227.6591	614.3332	1210.6326	605.8199	1209.6486	605.3279	K	1642.9498	821.9786	1625.9233	813.4653	1624.9393	812.9733	12
12	1429.8181	715.4127	1412.7916	706.8994	1411.3076	706.4074	K	1440.7908	720.8990	1423.7643	712.3859	1422.7802	711.8938	11
13	1542.9022	771.9547	1525.8756	763.4415	1524.8916	762.9495	L	1238.6318	619.8195	1221.6052	611.3063	1220.6212	610.8143	10
14	1655.9863	828.4968	1638.9597	819.9835	1637.9757	819.4915	L	1125.5477	563.2775	1108.5212	554.7642	1107.5372	554.2722	9
15	1785.0289	893.0181	1768.0023	884.5048	1767.0183	884.0128	E	1012.4637	506.7355	995.4371	498.2222	994.4531	497.7302	8
16	1899.0718	950.0395	1882.0452	941.5263	1881.0612	941.0342	N	883.4211	442.2142	866.3945	433.7009	865.4105	433.2089	7
17	2050.1294	1025.5683	2033.1028	1017.0550	2032.1188	1016.5630	I	769.3782	385.1927	752.3516	376.6794	751.3676	376.1874	6
18	2178.1879	1089.5976	2161.1614	1081.0843	2160.1774	1080.5923	Q	618.3206	309.6639	601.2940	301.1506	600.3100	300.6586	5
19	2265.2200	1133.1136	2248.1934	1124.6003	2247.2094	1124.1083	S	490.2620	245.6346	473.2354	237.1214	472.2514	236.6293	4
20	2380.2469	1190.6271	2363.2204	1182.1138	2362.2364	1181.6218	D	403.2300	202.1186	386.2034	193.6053	385.2194	193.1133	3
21	2493.3310	1247.1691	2476.3044	1238.6559	2475.3204	1238.1638	L	288.2030	144.6051	271.1765	136.0919			2
22	175.1190	88.0631			175.1190	88.0631	R			158.0924	79.5498			1

MS/MS Fragmentation of **MKDHR**

Found in **HOY3K4**, RNA-binding protein 33 (Fragment) OS=Homo sapiens GN=RBM33 PE=4 SV=1

Match to Query 331: 763.419588 from(382.717070, 2+) intensity(6006.1816)

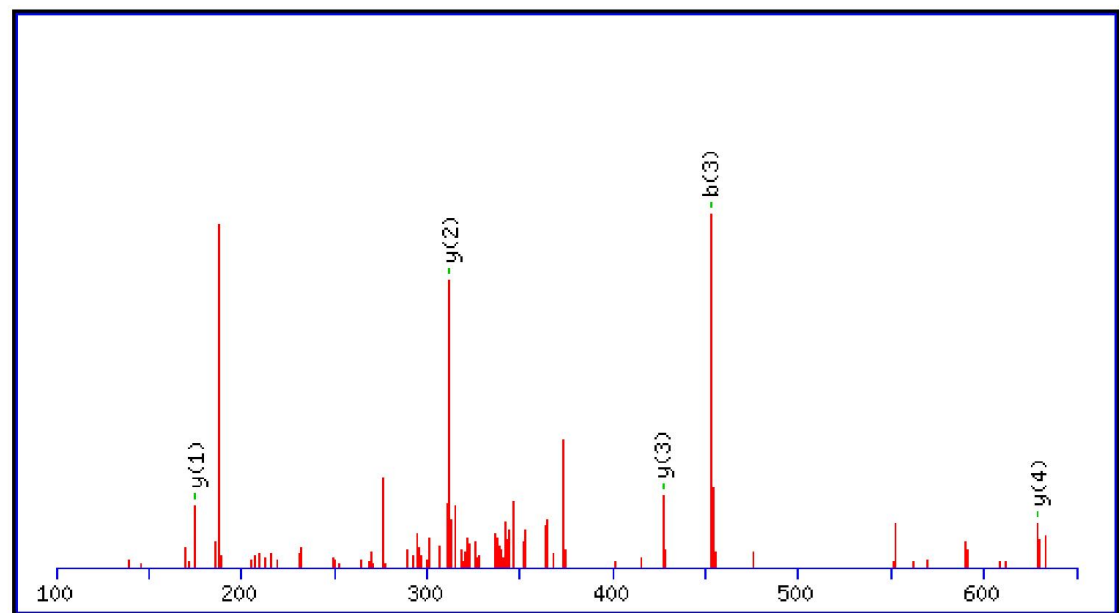
Title: File2082 Spectrum521 scans: 1102

Data file I:\2013-12-05-SIMM7721-FR2-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 763.4192

Fixed modifications: Carbamidomethyl (C) (apply to spec)

Variable modifications:

M1 : Label:13C(1)2H(3) (M)

K2 : Propionyl-(13CD3)Methyl (K)

Ions Score: 25 **Expect:** 0.79

Matches : 5/38 fragment ions using 10 most intense peaks

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	136.0699	68.5386					I							5
2	338.2290	169.6181	321.2024	161.1048			K	629.3638	315.1855	612.3373	306.6723	611.3533	306.1803	4
3	453.2559	227.1316	436.2294	218.6183	435.2453	218.1263	D	427.2048	214.1060	410.1783	205.5928	409.1942	205.1008	3
4	590.3148	295.6610	573.2683	287.1478	572.3042	286.6558	H	312.1779	156.5926	295.1513	148.0793			2
5							R	175.1190	88.0631	158.0924	79.5498			1

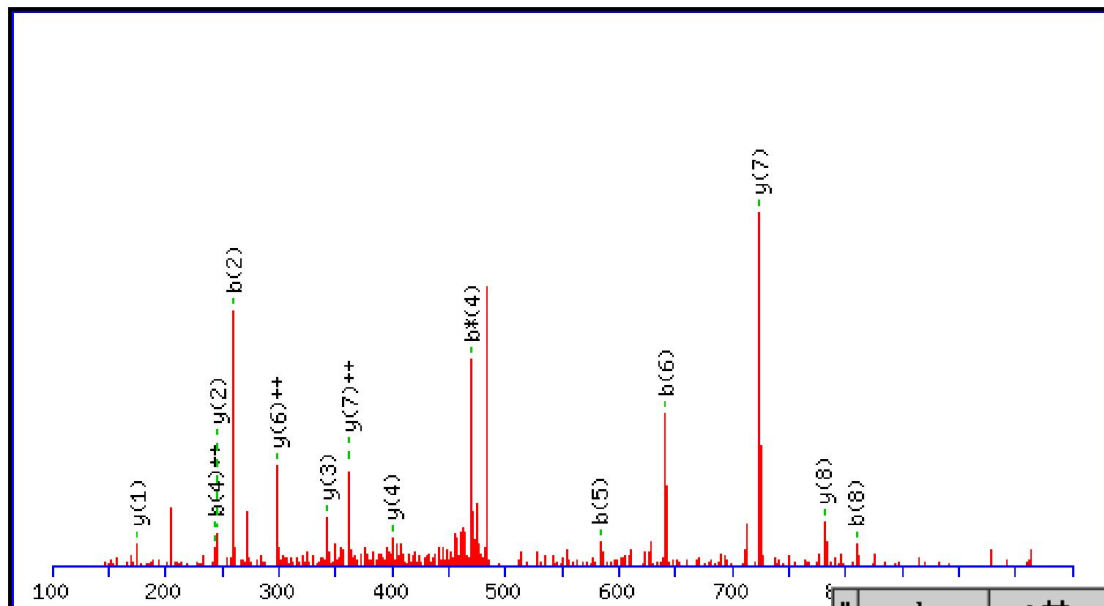
Found in **H3BS19**, Zinc finger protein 469 OS=Homo sapiens GN=ZNF469 PE=2 SV=1

Match to Query 2637: 982.584568 from(492.299560, 2+) intensity(290206.9688)

Title: File2082 Spectrum22 scans: 254

Data file I:\2013-12-05-SIMM7721-FR2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 982.5**Fixed modifications:** Carbamidomethyl (C) (apply to speci**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 28 **Expect:** 0.41**Matches** : 14/64 fragment ions using 36 most intense peaks

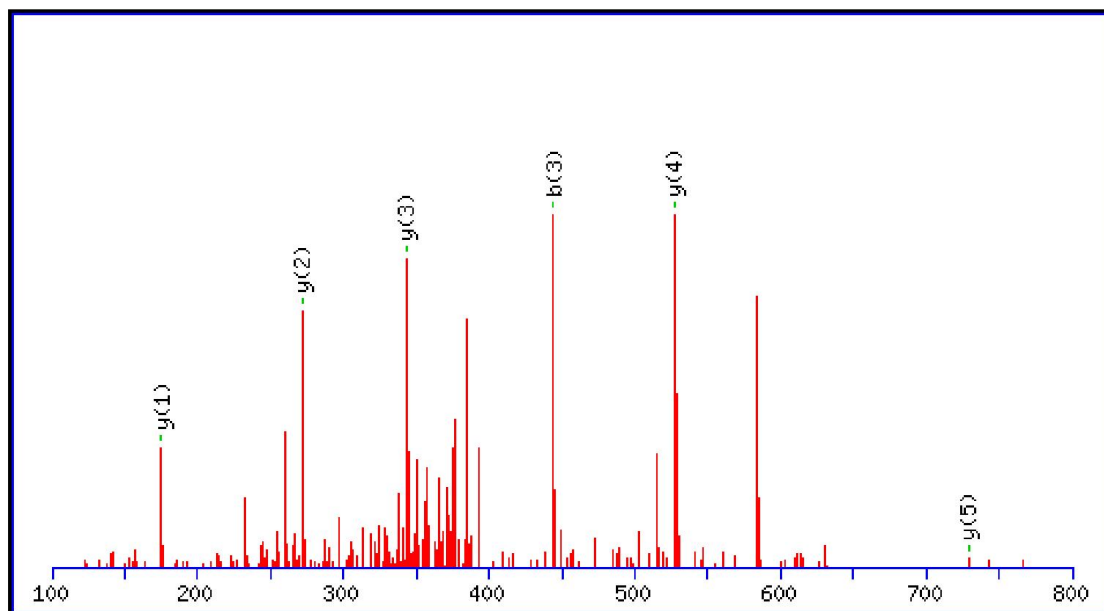
#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	203.1663	102.0868	186.1397	93.5735	K					9
2	260.1878	130.5975	243.1612	122.0842	G	781.4315	391.2194	764.4050	382.7061	8
3	388.2463	194.6268	371.2198	186.1135	Q	724.4101	362.7087	707.3835	354.1954	7
4	487.3147	244.1610	470.2882	235.6477	V	596.3515	298.6794	579.3249	290.1661	6
5	584.3675	292.6874	567.3410	284.1741	P	497.2831	249.1452	480.2565	240.6319	5
6	641.3890	321.1981	624.3624	312.6849	G	400.2303	200.6188	383.2037	192.1055	4
7	738.4417	369.7245	721.4152	361.2112	P	343.2088	172.1081	326.1823	163.5948	3
8	809.4789	405.2431	792.4523	396.7298	A	246.1561	123.5817	229.1295	115.0684	2
9					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 501: 785.505048 from(393.759800,2+) intensity(10186.5068)

Title: File2082 Spectrum2815 scans: 3592

Data file I:\2013-12-05-SIMM7721-FR2-ZW.mgf

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

Or, to DaLabel all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc)**: 785.51

Fixed modifications: Carbamidomethyl (C) (apply to speci

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)**K3** : Propionyl (K)

Ions Score: 42 Expect: 0.012

Matches : 6/38 fragment ions using 7 most intense peaks

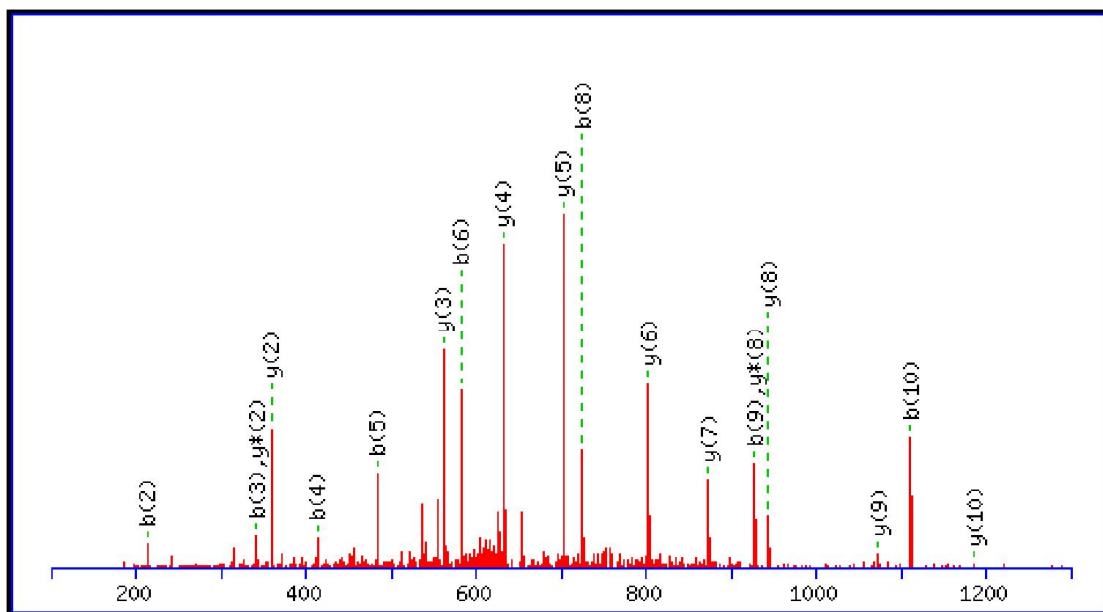
#	b	b ⁺⁺	b*	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	#
1	58.0287	29.5180			G					6
2	260.1878	130.5975	243.1612	122.0842	K	729.4890	365.2481	712.4625	356.7349	5
3	444.3089	222.6581	427.2824	214.1448	K	527.3300	264.1686	510.3035	255.6554	4
4	515.3460	258.1767	498.3195	249.6634	A	343.2088	172.1081	326.1823	163.5948	3
5	612.3988	306.7030	595.3723	298.1898	P	272.1717	136.5895	255.1452	128.0762	2
6					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 7439: 1284.803448 from(643.409000, 2+) intensity(195956.1094)

Title: File2082 Spectrum10107 scans: 11217

Data file I:\2013-12-05-SIMM7721-FR2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc): 1284.803448**

Fixed modifications: Carbamidomethyl (C) (apply to spe

Variable modifications:

K9 : Propionyl-(13CD3)Methyl (K)**K10** : Propionyl (K)

Ions Score: 84 Expect: 7.3e-007

Matches : 19/84 fragment ions using 22 most intense peak

#	b	b ⁺⁺	b [*]	b ^{++*}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{++*}	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							11
2	213.1598	107.0835					L	1186.7427	593.3750	1169.7161	585.3617	1168.7321	584.8697	10
3	342.2023	171.6048			324.1918	162.5995	E	1073.6586	537.3329	1056.6321	528.8197	1055.6480	528.3277	9
4	413.2395	207.1234			395.2289	198.1181	A	944.6160	472.8116	927.5895	464.2984			8
5	484.2766	242.6419			466.2660	233.6366	A	873.5789	437.2931	856.5523	428.7798			7
6	583.3450	292.1761			565.3344	283.1708	V	802.5418	401.7745	785.5152	393.2613			6
7	654.3821	327.6947			636.3715	318.6894	A	703.4734	352.2403	686.4468	343.7270			5
8	725.4192	363.2132			707.4087	354.2080	A	632.4363	316.7218	615.4097	308.2085			4
9	927.5782	464.2928	910.5517	455.7795	909.5677	455.2875	K	561.3997	281.2032	544.3726	272.6899			3
10	1111.6994	556.3533	1094.6729	547.8401	1093.6888	547.3481	K	359.2401	180.1237	342.2136	171.6104			2
11							R	175.1190	88.0631	158.0924	79.5498			1

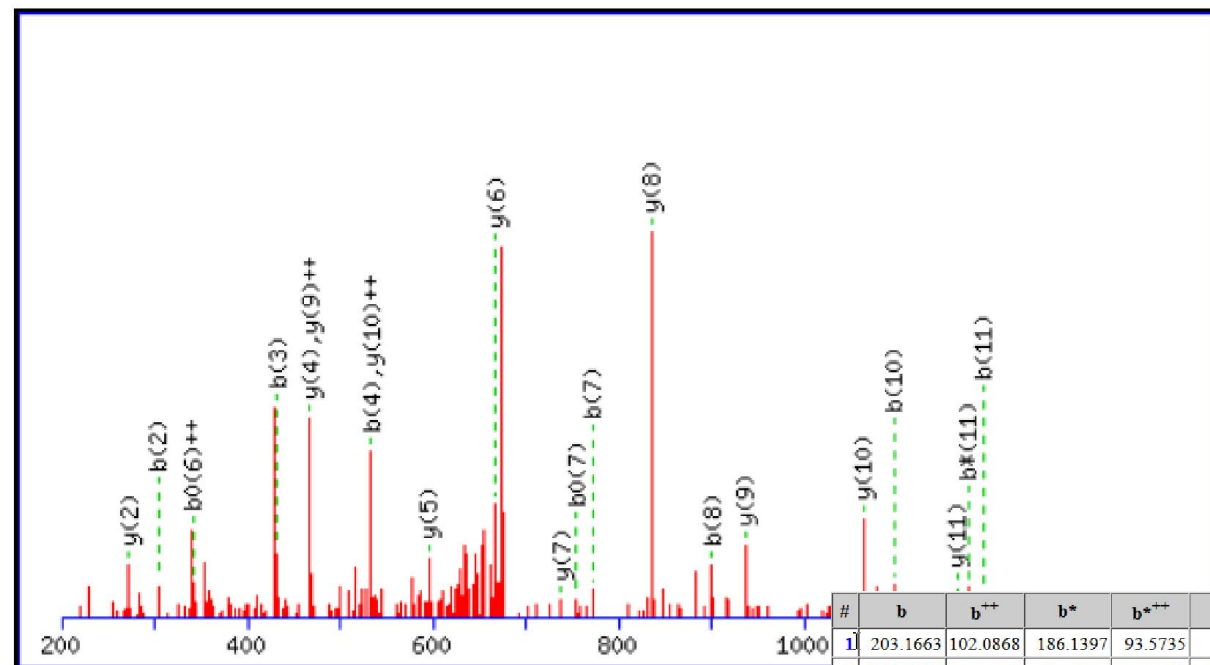
Found in **Q6P1J9**, Parafibromin OS=Homo sapiens GN=CDC73 PE=1 SV=1

Match to Query 8100: 1366.784148 from(684.399350,2+) intensity(13853.9492)

Title: File2079 Spectrum3458 scans: 4218

Data file I:\2013-12-05-SIMM7721-FR4-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1366

Fixed modifications: Carbamidomethyl (C) (apply to

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 68 Expect: 5.7e-005

Matches : 21/114 fragment ions using 31 most intens

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							12
2	304.2140	152.6106	287.1874	144.0973	286.2034	143.6053	T	1165.6324	583.3198	1148.6059	574.8066	1147.6218	574.3146	11
3	432.2725	216.6399	415.2460	208.1266	414.2620	207.6346	Q	1064.5847	532.7960	1047.5582	524.2827	1046.5742	523.7907	10
4	533.3202	267.1638	516.2937	258.6505	515.3097	258.1585	T	936.5261	468.7667	919.4996	460.2534	918.5156	459.7614	9
5	630.3730	315.6901	613.3464	307.1769	612.3624	306.6849	P	835.4785	418.2429	818.4519	409.7296			8
6	701.4101	351.2087	684.3836	342.6954	683.3995	342.2034	A	738.4257	369.7165	721.3992	361.2032			7
7	772.4472	386.7272	755.4207	378.2140	754.4367	377.7220	A	667.3886	334.1979	650.3620	325.6847			6
8	900.5058	450.7565	883.4792	442.2433	882.4952	441.7513	Q	596.3515	298.6794	579.3249	290.1661			5
9	997.5586	499.2829	980.5320	490.7696	979.5480	490.2776	P	468.2929	234.6501	451.2663	226.1368			4
10	1096.6270	548.8171	1079.6004	540.3039	1078.6164	539.8118	V	371.2401	186.1237	354.2136	177.6104			3
11	1193.6797	597.3435	1176.6532	588.8302	1175.6692	588.3382	P	272.1717	136.5895	255.1452	128.0762			2
12							R	175.1190	88.0631	158.0924	79.5498			1

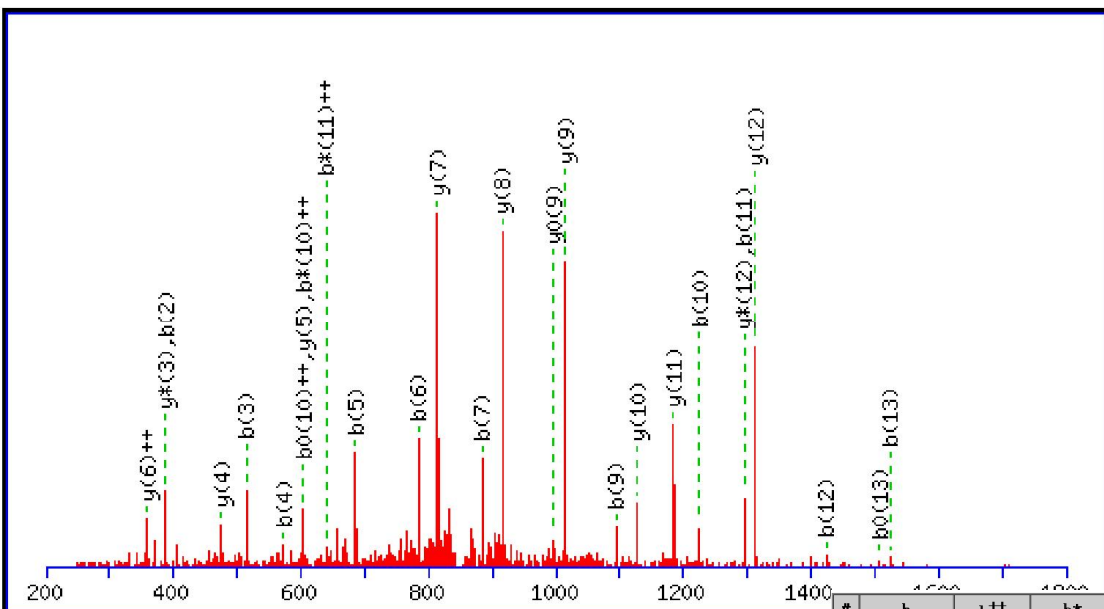
Found in **P98175**, RNA-binding protein 10 OS=Homo sapiens GN=RBM10 PE=1 SV=3

Match to Query 9778: 1697.994488 from(850.004520,2+) intensity(87675.4375)

Title: File2076 Spectrum9627 scans: 10873

Data file I:\2013-12-05-SIMM7721-FR14-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1697.9

Fixed modifications: Carbamidomethyl (C) (apply to specific)

Variable modifications:

K1 : Propionyl (K)

K2 : Propionyl-(13CD3)Methyl (K)

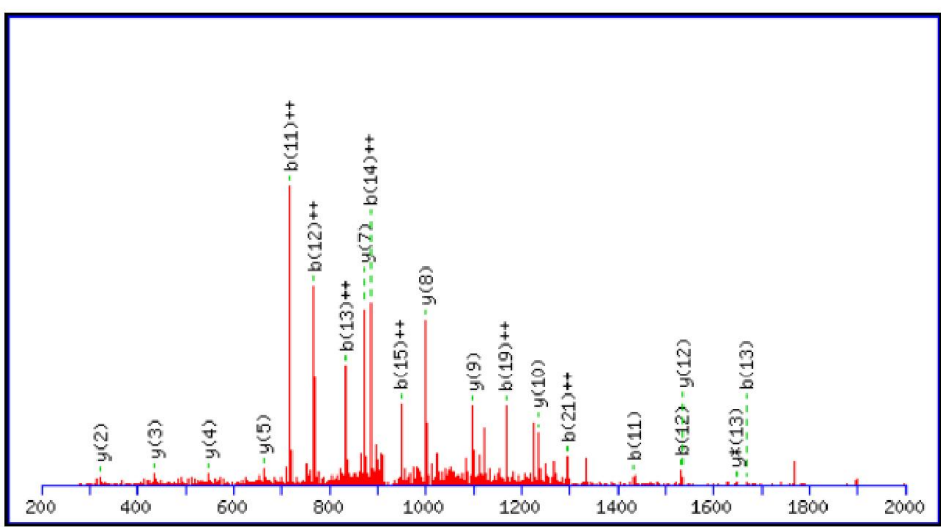
Ions Score: 72 Expect: 1.9e-005

Matches : 27/142 fragment ions using 40 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺ *	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺ *	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							14
2	387.2875	194.1474	370.2609	185.6341			K	1514.8810	757.9441	1497.8544	749.4308	1496.8704	748.9388	13
3	515.3460	258.1767	498.3195	249.6634			Q	1312.7219	656.8646	1295.6954	648.3513	1294.7114	647.8593	12
4	572.3675	286.6874	555.3410	278.1741			G	1184.6634	592.8353	1167.6368	584.3220	1166.6528	583.8300	11
5	685.4516	343.2294	668.4250	334.7162			I	1127.6419	564.3246	1110.6154	555.8113	1109.6313	555.3193	10
6	784.5200	392.7636	767.4934	384.2504			V	1014.5578	507.7826	997.5313	499.2693	996.5473	498.7773	9
7	885.5677	443.2875	868.5411	434.7742	867.5571	434.2822	T	915.4894	458.2483	898.4629	449.7351	897.4789	449.2431	8
8	982.6204	491.8139	965.5939	483.3006	964.6099	482.8086	P	814.4417	407.7245	797.4152	399.2112	796.4312	398.7192	7
9	1095.7045	548.3559	1078.6779	539.8426	1077.6939	539.3506	I	717.3890	359.1981	700.3624	350.6849	699.3784	350.1928	6
10	1224.7477	612.8772	1207.7205	604.3639	1206.7365	603.8719	E	604.3049	302.6561	587.2784	294.1428	586.2944	293.6508	5
11	1295.7842	648.3957	1278.7577	639.8825	1277.7736	639.3905	A	475.2623	238.1348	458.2358	229.6215	457.2518	229.1295	4
12	1423.8428	712.4250	1406.8162	703.9118	1405.8322	703.4197	Q	404.2252	202.6162	387.1987	194.1030	386.2146	193.6110	3
13	1524.8905	762.9489	1507.8639	754.4356	1506.8799	753.9436	T	276.1666	138.5870	259.1401	130.0737	258.1561	129.5817	2
14							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 20193: 2766.605862 from(923.209230,3+) intensity(212850.0469)
 Title: File2044 Spectrum21338 scans: 22878
 Data file I:\2013-12-03-SIMM7721-FR8-ZW.mgf

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



Monoisotopic mass of neutral peptide Mr(calc): 2766.6033
 Fixed modifications: Carbamidomethyl (C) (apply to specified residues or termini only)
 Variable modifications:
 N-term : Acetyl (Protein N-term)
 K8 : Propionyl-(13CD3)Methyl (K)
 K11 : Propionyl-(13CD3)Methyl (K)
 M13 : Label:13C(1)2H(3) (M)
 Ions Score: 48 Expect: 0.002
 Matches : 20/164 fragment ions using 35 most intense peaks ([help](#))

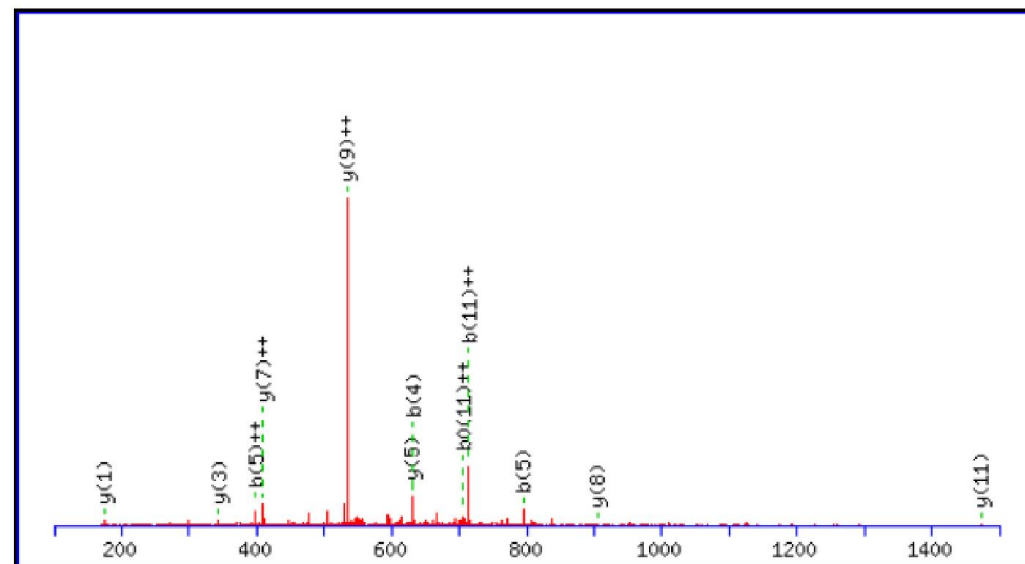
#	b	b ⁺⁺	b*	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	#
1	114.0550	57.5311			A					22
2	277.1183	139.0628			Y	2654.5629	1327.7851	2637.5363	1319.2718	21
3	433.2194	217.1133	416.1928	208.6001	R	2491.4995	1246.2534	2474.4730	1237.7401	20
4	490.2409	245.6241	473.2143	237.1108	G	2335.3984	1168.2029	2318.3719	1159.6896	19
5	618.2994	309.6534	601.2729	301.1401	Q	2278.3770	1139.6921	2261.3504	1131.1788	18
6	675.3209	338.1641	658.2944	329.6508	G	2150.3184	1075.6628	2133.2918	1067.1496	17
7	803.3795	402.1934	786.3529	393.6801	Q	2093.2969	1047.1521	2076.2704	1038.6388	16
8	1005.5385	503.2729	988.5119	494.7596	K	1965.2383	983.1228	1948.2118	974.6095	15
9	1104.6069	552.8071	1087.5804	544.2938	V	1763.0793	882.0433	1746.0528	873.5300	14
10	1232.6655	616.8364	1215.6389	608.3231	Q	1664.0109	832.5091	1646.9844	823.9958	13
11	1434.8245	717.9159	1417.7979	709.4026	K	1535.9523	768.4798	1518.9258	759.9665	12
12	1533.8929	767.4501	1516.8664	758.9368	V	1333.7933	667.4003	1316.7668	658.8870	11
13	1668.9556	834.9814	1651.9290	826.4682	M	1234.7249	617.8661	1217.6984	609.3528	10
14	1768.0240	884.5156	1750.9974	876.0024	V	1099.6622	550.3348	1082.6357	541.8215	9
15	1896.0826	948.5449	1879.0560	940.0317	Q	1000.5938	500.8006	983.5673	492.2873	8
16	1993.1353	997.0713	1976.1088	988.5580	P	872.5352	436.7713	855.5087	428.2580	7
17	2106.2194	1053.6133	2089.1929	1045.1001	I	775.4825	388.2449	758.4559	379.7316	6
18	2220.2623	1110.6348	2203.2358	1102.1215	N	662.3984	331.7028	645.3719	323.1896	5
19	2333.3464	1167.1768	2316.3198	1158.6636	L	548.3555	274.6814	531.3289	266.1681	4
20	2446.4305	1223.7189	2429.4039	1215.2056	I	435.2714	218.1394	418.2449	209.6261	3
21	2593.4989	1297.2531	2576.4723	1288.7398	F	322.1874	161.5973	305.1608	153.0840	2
22					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 11964: 1698.937632 from(567.319820,3+) intensity(257532.1250)

Title: File2044 Spectrum9248 scans: 10276

Data file I:\2013-12-03-SIMM7721-FR8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1698.9486

Fixed modifications: Carbamidomethyl (C) (apply to specified)

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 21 Expect: 4.7

Matches : 12/128 fragment ions using 25 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	115.0502	58.0287	98.0237	49.5155			N							13
2	228.1343	114.5708	211.1077	106.0575			I	1585.9130	793.4601	1568.8864	784.9469	1567.9024	784.4548	12
3	430.2933	215.6503	413.2667	207.1370			K	1472.8289	736.9181	1455.8024	728.4048	1454.8183	727.9128	11
4	632.4523	316.7298	615.4257	308.2165			K	1270.6699	635.8386	1253.6434	627.3253	1252.6593	626.8333	10
5	795.5156	398.2614	778.4891	389.7482			Y	1068.5109	534.7591	1051.4843	526.2458	1050.5003	525.7538	9
6	882.5477	441.7775	865.5211	433.2642	864.5371	432.7722	S	905.4476	453.2274	888.4210	444.7141	887.4370	444.2221	8
7	983.5953	492.3013	966.5688	483.7880	965.5848	483.2960	T	818.4155	409.7114	801.3890	401.1981	800.4050	400.7061	7
8	1070.6274	535.8173	1053.6008	527.3040	1052.6168	526.8120	S	717.3678	359.1876	700.3413	350.6743	699.3573	350.1823	6
9	1256.7067	628.8570	1239.6801	620.3437	1238.6961	619.8517	W	630.3358	315.6715	613.3093	307.1583	612.3253	306.6663	5
10	1357.7543	679.3808	1340.7278	670.8675	1339.7438	670.3755	T	444.2565	222.6319	427.2300	214.1186	426.2459	213.6266	4
11	1428.7915	714.8994	1411.7649	706.3861	1410.7809	705.8941	A	343.2088	172.1081	326.1823	163.5948			3
12	1525.8442	763.4258	1508.8177	754.9125	1507.8337	754.4205	P	272.1717	136.5895	255.1452	128.0762			2
13							R	175.1190	88.0631	158.0924	79.5498			1

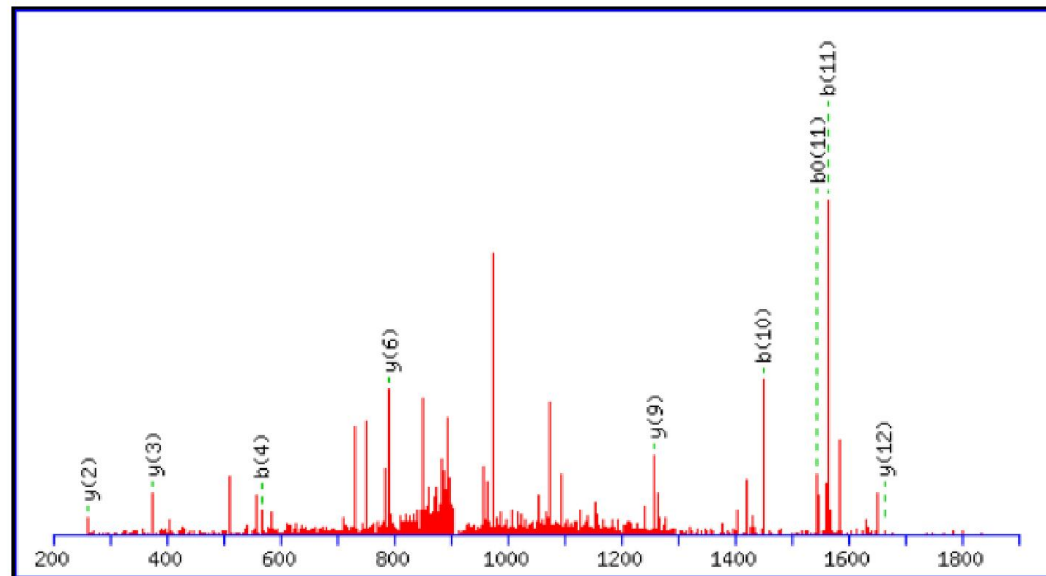
Found in **O43361**, Zinc finger protein 749 OS=Homo sapiens GN=ZNF749 PE=1 SV=2

Match to Query 13490: 1823.930388 from(912.972470,2+) intensity(331487.7500)

Title: File2044 Spectrum15015 scans: 16283

Data file I:\2013-12-03-SIMM7721-FR8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calcd): 1823.9196

Fixed modifications: Carbamidomethyl (C) (apply to specific)

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

Ions Score: 24 Expect: 2.4

Matches : 9/120 fragment ions using 16 most intense peaks

#	b	b ⁺⁺	b [*]	b ^{***}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	161.0379	81.0226					C							13
2	218.0594	109.5333					G	1664.8962	832.9518	1647.8697	824.4385	1646.8857	823.9465	12
3	420.2184	210.6128	403.1919	202.0996			K	1607.8748	804.4410	1590.8482	795.9277	1589.8642	795.4357	11
4	567.2868	284.1470	550.2603	275.6338			F	1405.7158	703.3615	1388.6892	694.8482	1387.7052	694.3562	10
5	714.3552	357.6813	697.3287	349.1680			F	1258.6473	629.8273	1241.6208	621.3140	1240.6368	620.8220	9
6	870.4563	435.7318	853.4298	427.2185			R	1111.5789	556.2931	1094.5524	547.7798	1093.5684	547.2878	8
7	1033.5197	517.2635	1016.4931	508.7502			Y	955.4778	478.2425	938.4513	469.7293	937.4672	469.2373	7
8	1189.6208	595.3140	1172.5942	586.8008			R	792.4145	396.7109	775.3879	388.1976	774.4039	387.7056	6
9	1349.6514	675.3294	1332.6249	666.8161			C	636.3134	318.6603	619.2868	310.1470	618.3028	309.6550	5
10	1450.6991	725.8532	1433.6726	717.3399	1432.6885	716.8479	T	476.2827	238.6450	459.2562	230.1317	458.2722	229.6397	4
11	1563.7832	782.3952	1546.7566	773.8820	1545.7726	773.3899	L	375.2350	188.1212	358.2085	179.6079	357.2245	179.1159	3
12	1650.8152	825.9112	1633.7887	817.3980	1632.8046	816.9060	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
13							R	175.1190	88.0631	158.0924	79.5498			1

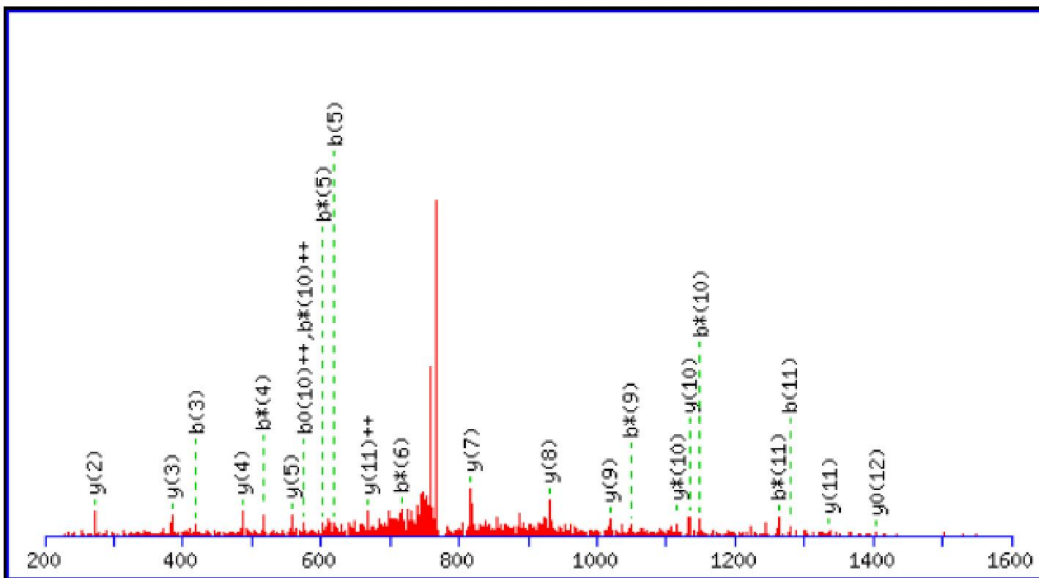
Found in **H0Y470**, Girdin (Fragment) OS=Homo sapiens GN=CCDC88A PE=2 SV=1

Match to Query 9398: 1549.802468 from(775.908510,2+) intensity(32161.2949)

Title: File2044 Spectrum10218 scans: 11286

Data file I:\2013-12-03-SIMM7721-FR8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1549.8009

Fixed modifications: Carbamidomethyl (C) (apply to specified)

Variable modifications:

K3 : Propionyl-(13CD3)Methyl (K)

Ions Score: 38 Expect: 0.079

Matches : 23/136 fragment ions using 65 most intense peaks

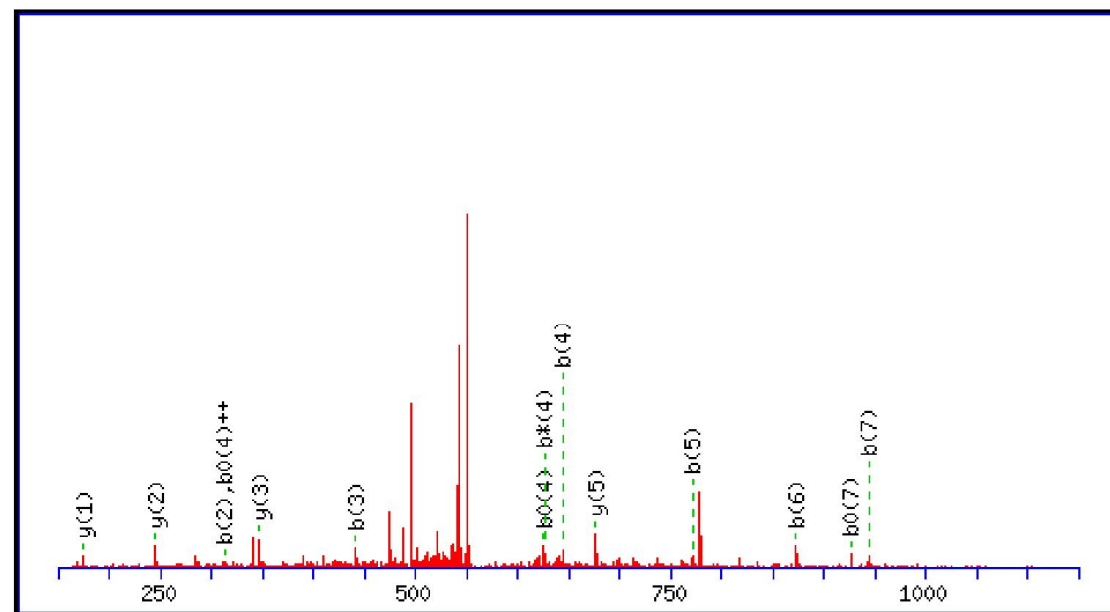
#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	129.0659	65.0366	112.0393	56.5233			Q							13
2	216.0979	108.5526	199.0713	100.0393	198.0873	99.5473	S	1422.7496	711.8784	1405.7231	703.3652	1404.7390	702.8732	12
3	418.2569	209.6321	401.2303	201.1188	400.2463	200.6268	K	1335.7176	668.3624	1318.6910	659.8492	1317.7070	659.3571	11
4	533.2838	267.1456	516.2573	258.6323	515.2733	258.1403	D	1133.5586	567.2829	1116.5320	558.7696	1115.5480	558.2776	10
5	620.3159	310.6616	603.2893	302.1483	602.3053	301.6563	S	1018.5316	509.7694	1001.5051	501.2562	1000.5211	500.7642	9
6	734.3588	367.6830	717.3322	359.1698	716.3482	358.6778	N	931.4996	466.2534	914.4730	457.7402	913.4890	457.2482	8
7	831.4116	416.2094	814.3850	407.6961	813.4010	407.2041	P	817.4567	409.2320	800.4301	400.7187	799.4461	400.2267	7
8	994.4749	497.7411	977.4483	489.2278	976.4643	488.7358	Y	720.4039	360.7056	703.3774	352.1923	702.3933	351.7003	6
9	1065.5120	533.2596	1048.4855	524.7464	1047.5014	524.2544	A	557.3406	279.1739	540.3140	270.6606	539.3300	270.1686	5
10	1166.5597	583.7835	1149.5331	575.2702	1148.5491	574.7782	T	486.3035	243.6554	469.2769	235.1421	468.2929	234.6501	4
11	1279.6437	640.3255	1262.6172	631.8122	1261.6332	631.3202	L	385.2558	193.1315	368.2292	184.6183			3
12	1376.6965	688.8519	1359.6700	680.3386	1358.6859	679.8466	P	272.1717	136.5895	255.1452	128.0762			2
13							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 4382: 1117.636928 from(559.825740, 2+) intensity(100443.3750)

Title: File2041 Spectrum8170 scans: 9357

Data file I:\2013-12-03-SIMM7721-FR9-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1117.6364

Fixed modifications: Carbamidomethyl (C) (apply to spec:

Variable modifications:

K1 : Propionyl (K)

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 24 Expect: 1.4

Matches : 14/76 fragment ions using 39 most intense peaks

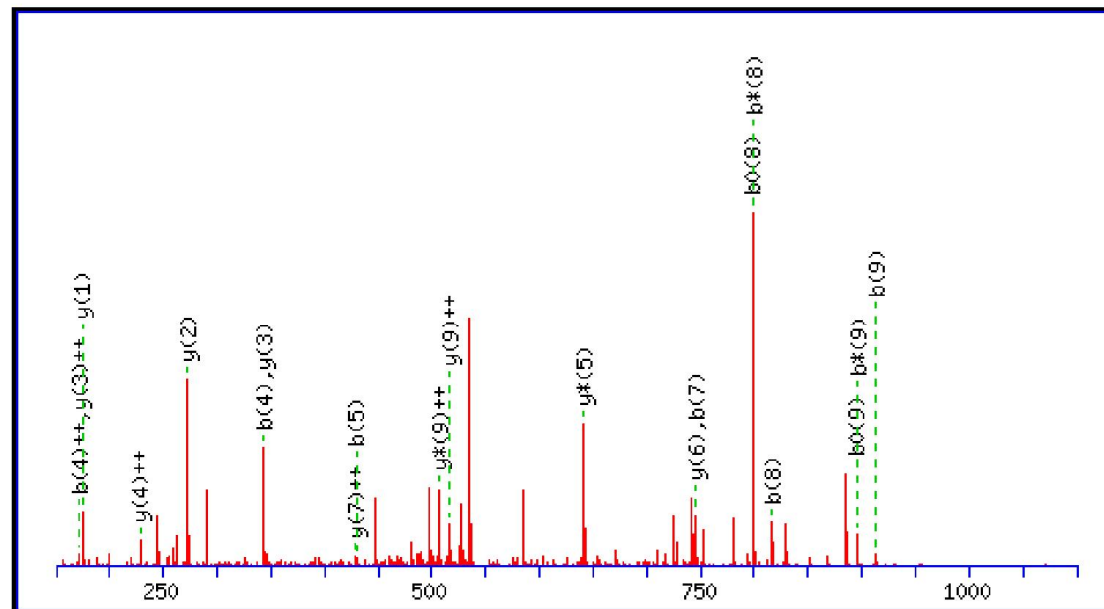
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							8
2	313.1870	157.0972	296.1605	148.5839			Q	934.5225	467.7649	917.4960	459.2516	916.5119	458.7596	7
3	442.2296	221.6185	425.2031	213.1052	424.2191	212.6132	E	806.4639	403.7356	789.4374	395.2223	788.4534	394.7303	6
4	644.3886	322.6980	627.3621	314.1847	626.3781	313.6927	K	677.4213	339.2143	660.3948	330.7010	659.4108	330.2090	5
5	772.4472	386.7272	755.4207	378.2140	754.4367	377.7220	Q	475.2623	238.1348	458.2358	229.6215	457.2518	229.1295	4
6	873.4949	437.2511	856.4683	428.7378	855.4843	428.2458	T	347.2037	174.1055	330.1772	165.5922	329.1932	165.1002	3
7	944.5320	472.7696	927.5055	464.2564	926.5214	463.7644	A	246.1561	123.5817	229.1295	115.0684			2
8							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 3909: 1086.630468 from(544.322510,2+) intensity(1937397.2500)

Title: File2041 Spectrum7088 scans: 8230

Data file I:\2013-12-03-SIMM7721-FR9-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1086.6306**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K6** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 30 **Expect:** 0.32**Matches** : 20/84 fragment ions using 41 most intense peaks

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							10
2	115.0502	58.0287					G	1030.6164	515.8118	1013.5899	507.2986	1012.6058	506.8066	9
3	230.0771	115.5422			212.0666	106.5369	D	973.5949	487.3011	956.5634	478.7878	955.5844	478.2958	8
4	343.1612	172.0842			325.1506	163.0790	I	858.5680	429.7876	841.5414	421.2744	840.5574	420.7824	7
5	430.1932	215.6003			412.1827	206.5950	S	745.4839	373.2456	728.4574	364.7323	727.4734	364.2403	6
6	632.3523	316.6798	615.3257	308.1665	614.3417	307.6745	K	658.4519	329.7296	641.4254	321.2163			5
7	745.4363	373.2218	728.4098	364.7085	727.4258	364.2165	I	456.2929	228.6501	439.2663	220.1368			4
8	816.4734	408.7404	799.4469	400.2271	798.4629	399.7351	A	343.2088	172.1081	326.1823	163.5948			3
9	913.5263	457.2667	896.4996	448.7535	895.5156	448.2615	P	272.1717	136.5895	255.1452	128.0762			2
10							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **KGPAPQLQGVVALPEELEDPMANTQKYEHHVR**

Found in **HOYEX5**, Splicing factor 3B subunit 2 (Fragment) OS=Homo sapiens GN=SF3B2 PE=4 SV=1

Match to Query 23420: 4058.043896 from(1015.518250,4+) intensity(0.0000)

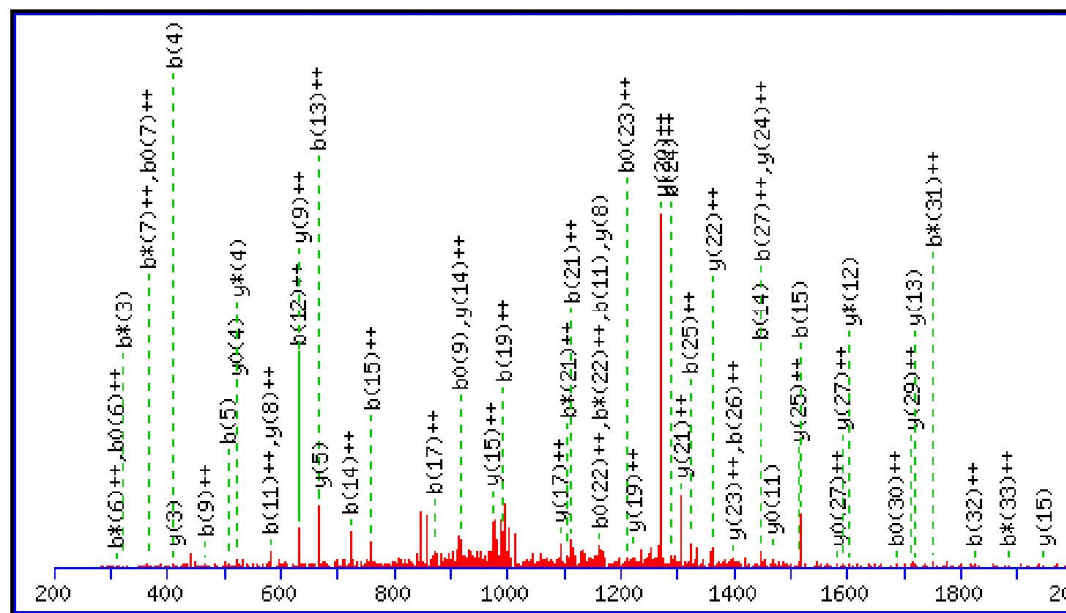
Title: File2041 Spectrum17436 scans: 19010

Data file I:\2013-12-03-SIMM7721-FR9-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



#	b	b ⁺	b [*]	b ⁺	b ⁰	b ⁰⁺	Seq.	y	y ⁺	y [*]	y ⁺	y ⁰	y ⁰⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							35
2	242.1499	121.5796	225.1234	113.0653			G	3874.9543	1937.9808	3857.9278	1929.4675	3856.9438	1928.9755	34
3	339.2027	170.1050	322.1761	161.5917			P	3817.9329	1909.4701	3800.9063	1900.9568	3799.9223	1900.4648	33
4	410.2398	205.6236	393.2132	197.1103			A	3720.8801	1860.9437	3703.8536	1852.4304	3702.8695	1851.9384	32
5	507.2926	254.1499	490.2660	245.6366			P	3649.8430	1825.4251	3632.8164	1816.9119	3631.8324	1816.4198	31
6	636.3352	318.6712	619.3086	310.1579	618.3246	309.6659	B	3562.7902	1776.8987	3535.7637	1768.3855	3534.7797	1767.8935	30
7	749.4192	375.2132	732.3927	366.7000	731.4087	366.2080	L	3423.7476	1712.3775	3406.7211	1703.8642	3405.7371	1703.3722	29
8	877.4778	439.2425	860.4512	430.7293	859.4672	430.2373	Q	3310.6636	1655.8354	3293.6370	1647.3221	3292.6530	1646.8301	28
9	954.4993	467.7533	917.4727	459.2400	916.4897	458.7480	G	3182.6050	1591.8061	3165.5794	1583.2929	3164.5944	1582.8008	27
10	1033.5677	517.2875	1016.5411	508.7742	1015.5571	508.2822	V	3125.5835	1563.2954	3108.5570	1554.7821	3107.5730	1554.2901	26
11	1162.6103	581.8088	1145.5837	573.2955	1144.5997	572.8035	B	3026.5151	1513.7612	3009.4886	1505.2479	3008.5045	1504.7559	25
12	1261.6787	631.3430	1244.6521	622.8297	1243.6681	622.3377	V	2897.4725	1449.2399	2880.4460	1440.7266	2879.4620	1440.2346	24
13	1332.7158	666.8615	1315.6892	658.3483	1314.7052	657.8563	A	2798.4041	1399.7067	2781.3776	1391.1924	2780.3935	1390.7004	23
14	1445.7999	723.4036	1428.7733	714.8903	1427.7893	714.3983	L	2727.3670	1364.1871	2710.3404	1355.6739	2709.3564	1355.1818	22
15	1516.8370	758.9221	1499.8104	750.4083	1498.8264	749.9163	A	2614.2829	1307.6461	2597.2564	1299.1318	2596.2724	1298.6398	21
16	1613.8937	807.4485	1596.8632	798.3552	1595.8792	798.4432	P	2543.2458	1272.1265	2526.2193	1263.6193	2525.2352	1263.1213	20
17	1742.9323	871.9698	1725.9058	863.4565	1724.9218	862.9645	B	2446.1930	1223.6002	2429.1665	1215.0869	2428.1825	1214.5949	19
18	1871.9749	936.4911	1854.9494	927.9778	1853.9644	927.4858	B	2317.1505	1159.0789	2300.1239	1150.5656	2299.1399	1150.0736	18
19	1985.0590	993.0331	1968.0324	984.5199	1967.0484	984.0278	L	2188.1079	1094.5576	2171.0813	1086.0443	2170.0973	1085.5523	17
20	2114.1016	1057.5544	2097.0750	1049.0412	2096.0910	1048.5491	B	2075.0238	1038.0155	2057.9972	1029.5023	2057.0132	1029.0103	16
21	2227.1856	1114.0965	2210.1591	1105.5832	2209.1751	1105.0912	L	1945.9812	973.4942	1928.9547	964.9810	1927.9705	964.4890	15
22	2342.2126	1171.6099	2325.1860	1163.0967	2324.2020	1162.6046	B	1832.8971	916.9522	1815.8706	908.4389	1814.8866	907.9469	14
23	2459.2654	1220.1363	2442.2388	1211.6230	2441.2548	1211.1310	P	1717.8702	869.4387	1700.8436	860.9255	1699.8596	860.4335	13
24	2574.3280	1287.6676	2557.3015	1279.1544	2556.3175	1278.6624	B	1620.8174	810.9124	1603.7999	802.3991	1602.8069	801.9071	12
25	2645.9651	1323.1862	2628.3386	1314.6729	2627.3546	1314.1809	A	1485.7548	743.3810	1468.7282	734.8677	1467.7442	734.3757	11
26	2796.4227	1398.7150	2779.3962	1390.2017	2778.4122	1389.7097	B	1414.7176	707.8625	1397.6911	699.3492	1396.7071	698.8572	10
27	2897.4704	1449.2398	2880.4438	1440.7256	2879.4598	1440.2336	L	1263.6601	632.3397	1246.6395	623.8204	1245.6495	623.3284	9
28	3025.5290	1513.2681	3008.5024	1504.7549	3007.5184	1504.2628	Q	1162.6124	581.8088	1145.5858	573.2966	1144.6018	572.8045	8
29	3227.6880	1614.3476	3210.6614	1605.8344	3209.6774	1605.3423	K	1034.5538	517.7805	1017.5273	509.2673	1016.5432	508.7753	7
30	3390.7513	1695.8793	3373.7248	1687.3660	3372.7408	1686.8740	Y	832.3948	416.7010	815.3682	408.1873	814.3842	407.6958	6
31	3519.7939	1760.4006	3502.7674	1751.8873	3501.7833	1751.3953	B	669.3315	325.1694	652.3049	326.6561	651.3209	326.1641	5
32	3648.8365	1824.9219	3631.8100	1816.4086	3630.8259	1815.9166	K	540.2889	270.6481	523.2623	262.1348	522.2783	261.6428	4
33	3785.8954	1893.4513	3768.8689	1884.9391	3767.8849	1884.4461	H	411.2463	206.1268	394.2197	197.6135			3
34	3884.9638	1942.9856	3867.9375	1934.4723	3866.9533	1933.9803	V	274.1874	137.5973	257.1608	129.0840			2
35							R	175.1190	88.0631	158.0924	79.5498			1

Monoisotopic mass of neutral peptide Mr(calc): 4058.0682
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or
Variable modifications:
K1 : Propionyl (K)
M24 : Label:13C(1)2H(3) (M)
M26 : Label:13C(1)2H(3)+Oxidation (M)
K29 : Propionyl-(13CD3)Methyl (K)
Ions Score: 34 **Expect:** 0.35
Matches : 56/392 fragment ions using 170 most intense peaks ([help](#))

MS/MS Fragmentation of **KALHPR**

Found in **Q9UIK4** Death-associated protein kinase 2 OS=Homo sapiens GN=DAPK2 PE=1 SV=1

Match to Query 6543: 794.502788 from(398.258670,2+) intensity(167018.5469)

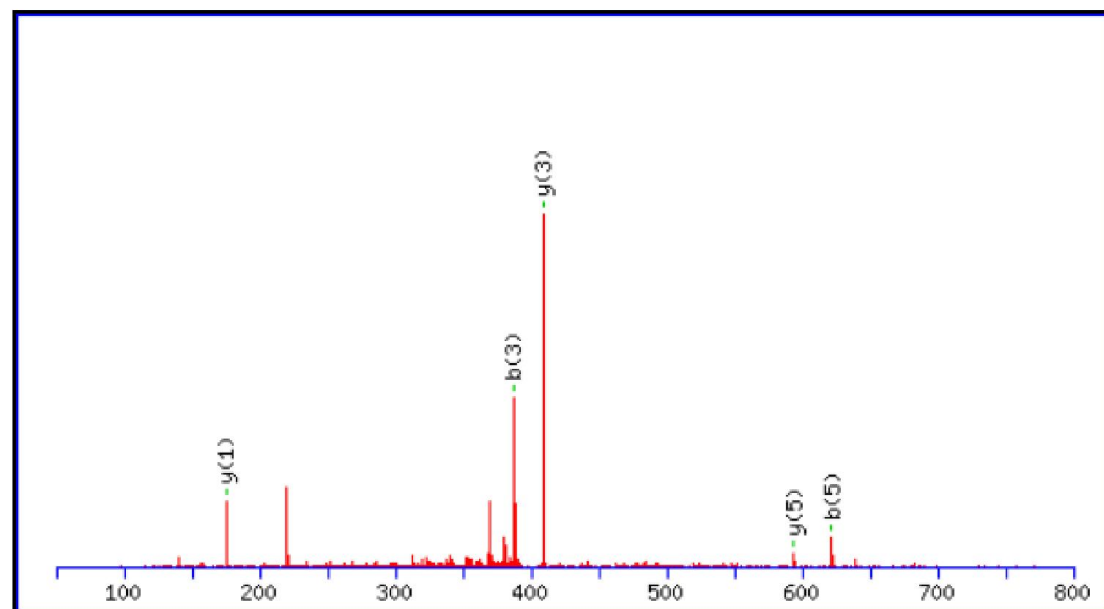
Title: File1989 Spectrum7715 scans: 8549

Data file I:\2013-12-03-SIMM7721-FR13-ZW2.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 794.5035

Fixed modifications: Carbamidomethyl (C) (apply to speci

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 21 Expect: 1

Matches : 5/40 fragment ions using 7 most intense peaks

#	b	b ⁺⁺	b [*]	b ^{*++}	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
1	203.1665	102.0868	186.1397	93.5735	K					6
2	274.2034	137.6053	257.1769	129.0921	A	593.3518	297.1795	576.3253	288.6663	5
3	387.2875	194.1474	370.2609	185.6341	L	522.3147	261.6610	505.2881	253.1477	4
4	524.3464	262.6768	507.3198	254.1636	H	409.2306	205.1190	392.2041	196.6057	3
5	621.3991	311.2032	604.3726	302.6899	P	272.1717	136.5895	255.1452	128.0762	2
6					R	175.1190	88.0631	158.0924	79.5498	1

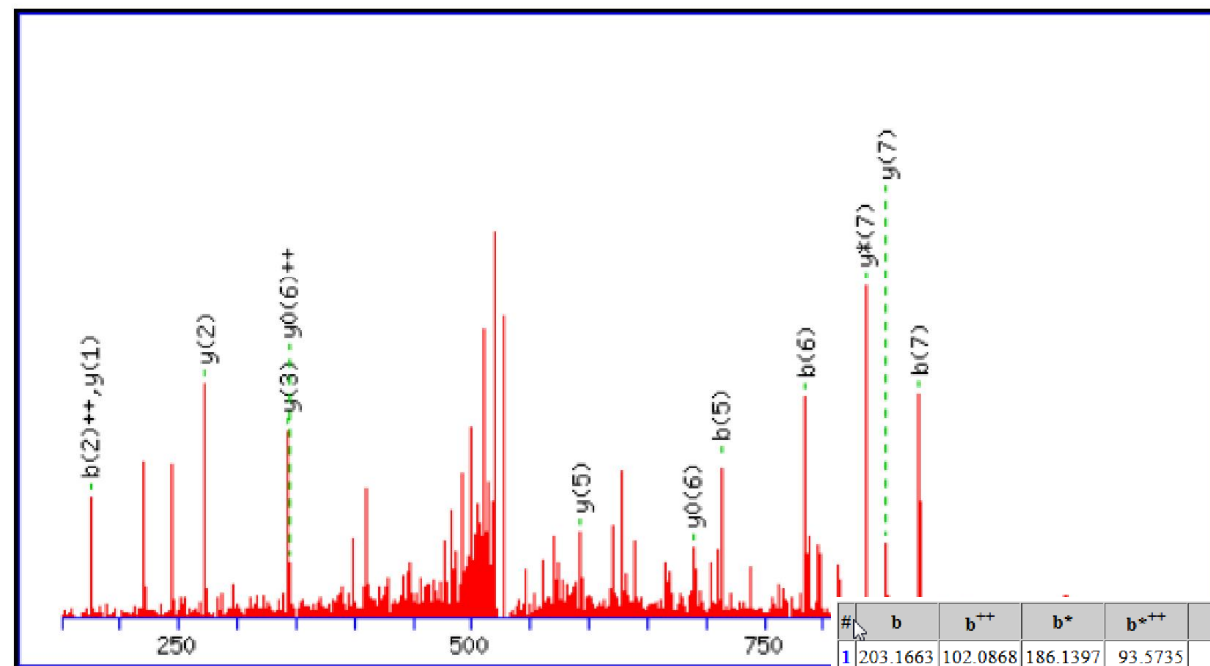
Found in **Q9UK61**, Protein FAM208A OS=Homo sapiens GN=FAM208A PE=1 SV=3

Match to Query 9354: 1054.603248 from(528.308900,2+) intensity(92075.4531)

Title: File1989 Spectrum9020 scans: 9941

Data file I:\2013-12-03-SIMM7721-FR13-ZW2.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1054

Fixed modifications: Carbamidomethyl (C) (apply to

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 23 Expect: 1.9

Matches : 12/70 fragment ions using 27 most intense

#	b	b ⁺⁺	b [*]	b ^{***}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							8
2	350.2347	175.6210	333.2082	167.1077			F	853.4567	427.2320	836.4301	418.7187	835.4461	418.2267	7
3	463.3188	232.1630	446.2922	223.6497			L	706.3883	353.6978	689.3617	345.1845	688.3777	344.6925	6
4	626.3821	313.6947	609.3555	305.1814			Y	593.3042	297.1557	576.2776	288.6425	575.2936	288.1504	5
5	713.4141	357.2107	696.3876	348.6974	695.4036	348.2054	S	430.2409	215.6241	413.2143	207.1108	412.2303	206.6188	4
6	784.4512	392.7293	767.4247	384.2160	766.4407	383.7240	A	343.2088	172.1081	326.1823	163.5948			3
7	881.5040	441.2556	864.4775	432.7424	863.4934	432.2504	P	272.1717	136.5895	255.1452	128.0762			2
8							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **ARTKQTAR**

Found in **Q71DI3**, Histone H3.2 OS=Homo sapiens GN=HIST2H3A PE=1 SV=3

Match to Query 3684: 1060.625708 from(531.320130,2+) intensity(6067194.0000)

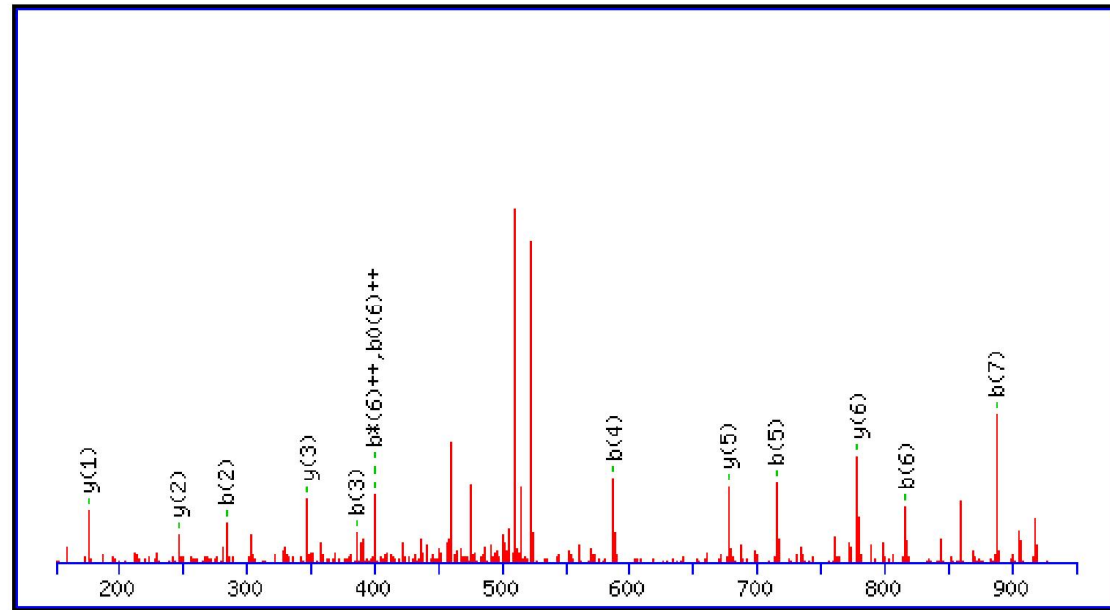
Title: File1986 Spectrum4699 scans: 5618

Data file 2013-12-03-SIMM7721-FR7-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1060.

Fixed modifications: Carbamidomethyl (C) (apply to spec:

Variable modifications:

N-term : Propionyl (protein N-term) (Protein N-term)

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 47 **Expect:** 0.0049

Matches : 13/74 fragment ions using 16 most intense peaks

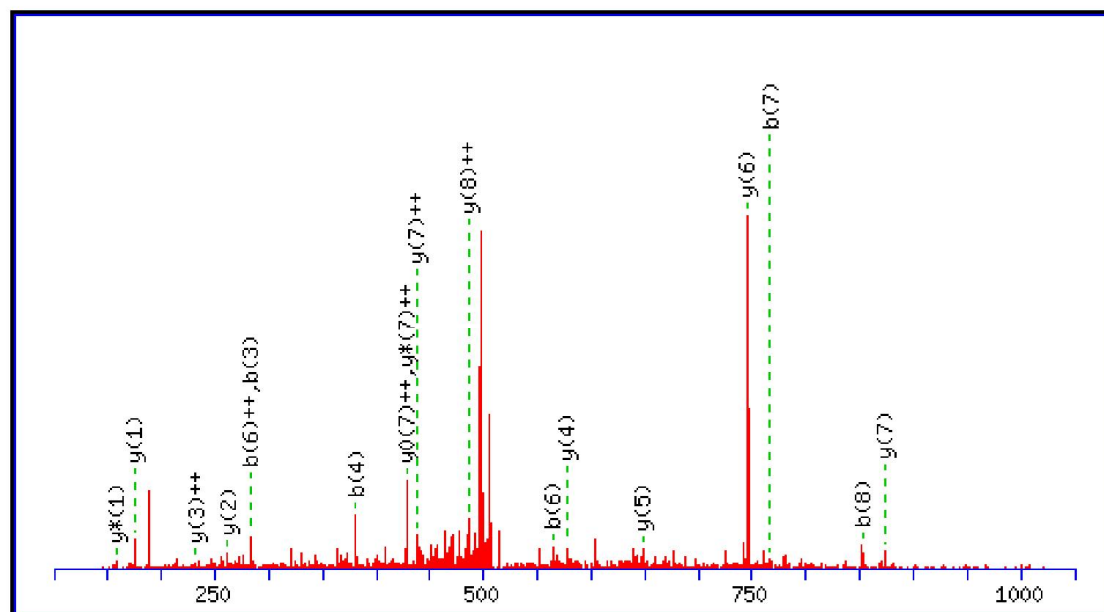
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	128.0706	64.5389					A							8
2	284.1717	142.5895	267.1452	134.0762			R	934.5701	467.7887	917.5436	459.2754	916.5596	458.7834	7
3	385.2194	193.1133	368.1928	184.6001	367.2088	184.1081	T	778.4690	389.7381	761.4425	381.2249	760.4584	380.7329	6
4	587.3784	294.1928	570.3519	285.6796	569.3678	285.1876	K	677.4213	339.2143	660.3948	330.7010	659.4108	330.2090	5
5	715.4370	358.2221	698.4104	349.7089	697.4264	349.2168	Q	475.2623	238.1348	458.2358	229.6215	457.2518	229.1295	4
6	816.4847	408.7460	799.4581	400.2327	798.4741	399.7407	T	347.2037	174.1055	330.1772	165.5922	329.1932	165.1002	3
7	887.5218	444.2645	870.4952	435.7513	869.5112	435.2592	A	246.1561	123.5817	229.1295	115.0684			2
8							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 3142: 1026.608368 from(514.311460, 2+) intensity(61330.8828)

Title: File1986 Spectrum6542 scans: 7547

Data file 2013-12-03-SIMM7721-FR7-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 1026.****Fixed modifications:** Carbamidomethyl (C) (apply to speci**Variable modifications:****K7** : Propionyl-(13CD3)Methyl (K)**Ions Score: 23 Expect: 1.7****Matches** : 18/76 fragment ions using 54 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							9
2	155.0815	78.0444					P	970.5953	485.8013	953.5687	477.2880	952.5847	476.7960	8
3	283.1401	142.0737	266.1135	133.5604			Q	873.5425	437.2749	856.5160	428.7616	855.5319	428.2696	7
4	380.1928	190.6001	363.1663	182.0868			P	745.4839	373.2456	728.4574	364.7323	727.4734	364.2403	6
5	451.2300	226.1186	434.2034	217.6053			A	648.4312	324.7192	631.4046	316.2059	630.4206	315.7139	5
6	564.3140	282.6607	547.2875	274.1474			L	577.3947	289.2007	560.3675	280.6874	559.3835	280.1954	4
7	766.4730	383.7402	749.4465	375.2269			K	464.3100	232.6586	447.2834	224.1454	446.2994	223.6534	3
8	853.5051	427.2562	836.4785	418.7429	835.4945	418.2509	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
9							R	175.1190	88.0631	158.0924	79.5498			1

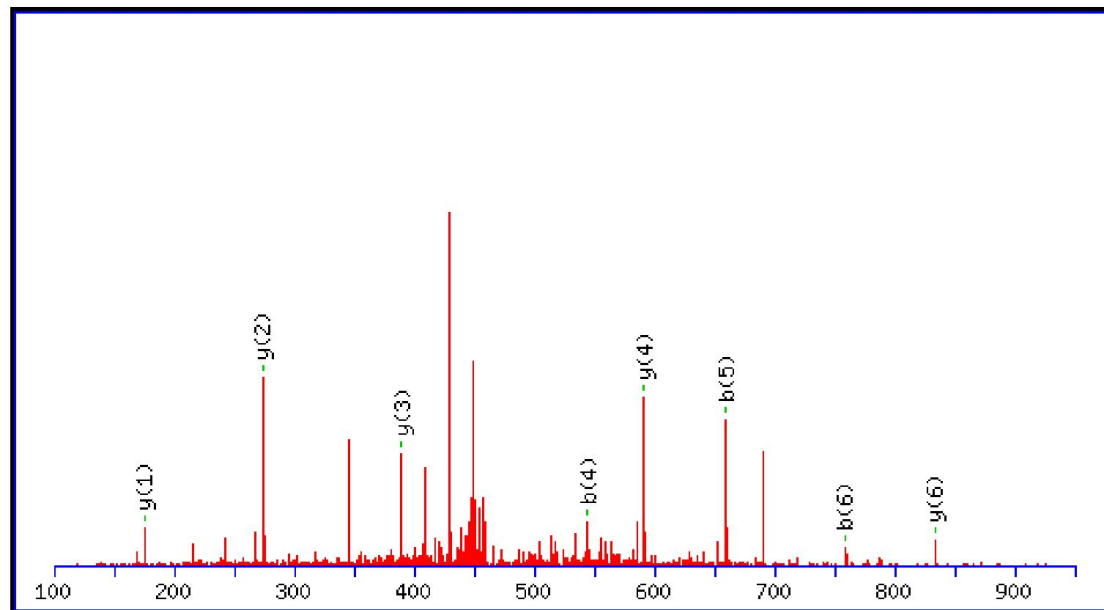
MS/MS Fragmentation of **VEIKDVR**Found in **Q8TAV4**, Stomatin-like protein 3 OS=Homo sapiens GN=STOML3 PE=1 SV=1

Match to Query 1777: 931.559488 from(466.787020, 2+) intensity(51127.5508)

Title: File2467 Spectrum7349 scans: 8584

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-17-7721-Fr10,12-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 931.5611**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K4** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 29 **Expect:** 0.35**Matches** : 8/60 fragment ions using 17 most intense peaks

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							7
2	229.1183	115.0628			211.1077	106.0575	E	833.5000	417.2536	816.4734	408.7404	815.4894	408.2483	6
3	342.2023	171.6048			324.1918	162.5995	I	704.4574	352.7323	687.4308	344.2191	686.4468	343.7270	5
4	544.3614	272.6843	527.3348	264.1710	526.3508	263.6790	K	591.3733	296.1903	574.3468	287.6770	573.3628	287.1850	4
5	659.3883	330.1978	642.3618	321.6845	641.3777	321.1925	D	389.2143	195.1108	372.1878	186.5975	371.2037	186.1055	3
6	758.4567	379.7320	741.4302	371.2187	740.4462	370.7267	V	274.1874	137.5973	257.1608	129.0840			2
7							R	175.1190	88.0631	158.0924	79.5493			1

MS/MS Fragmentation of **KRPQSPSPR**

Found in **F8V1G7**, Protein SCAF11 OS=Homo sapiens GN=SCAF11 PE=2 SV=1

Match to Query 3393: 1125.649868 from(563.832210, 2+) intensity(163092.4844)

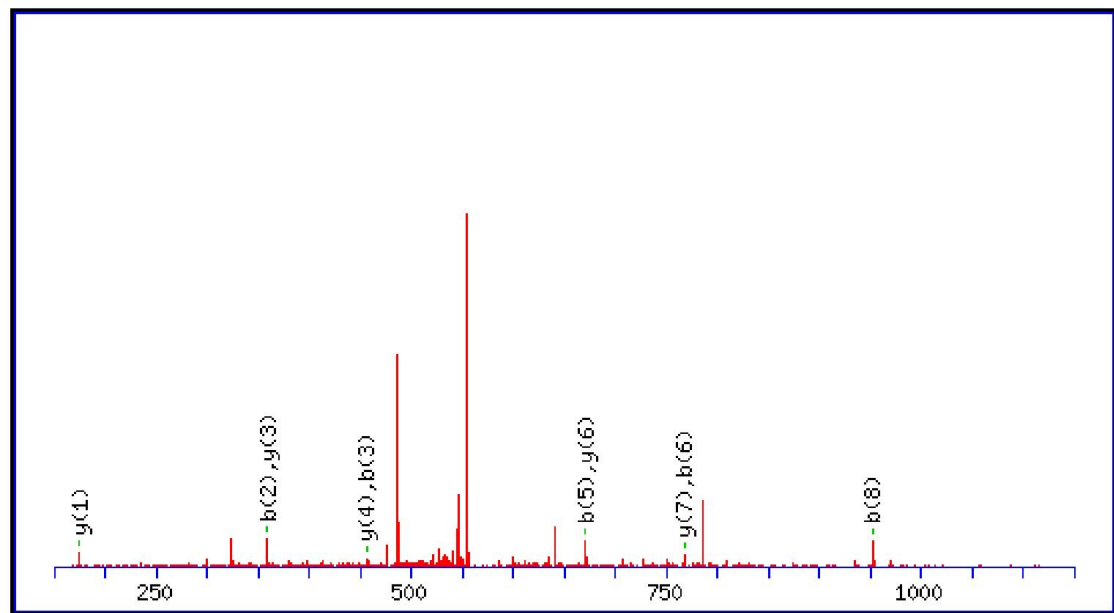
Title: File2468 Spectrum5434 scans: 6407

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr1, 2-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1125.
Fixed modifications: Carbamidomethyl (C) (apply to speci
Variable modifications:
K1 : Propionyl-(13CD3)Methyl (K)
Ions Score: 21 Expect: 2.9
Matches : 10/84 fragment ions using 20 most intense peaks

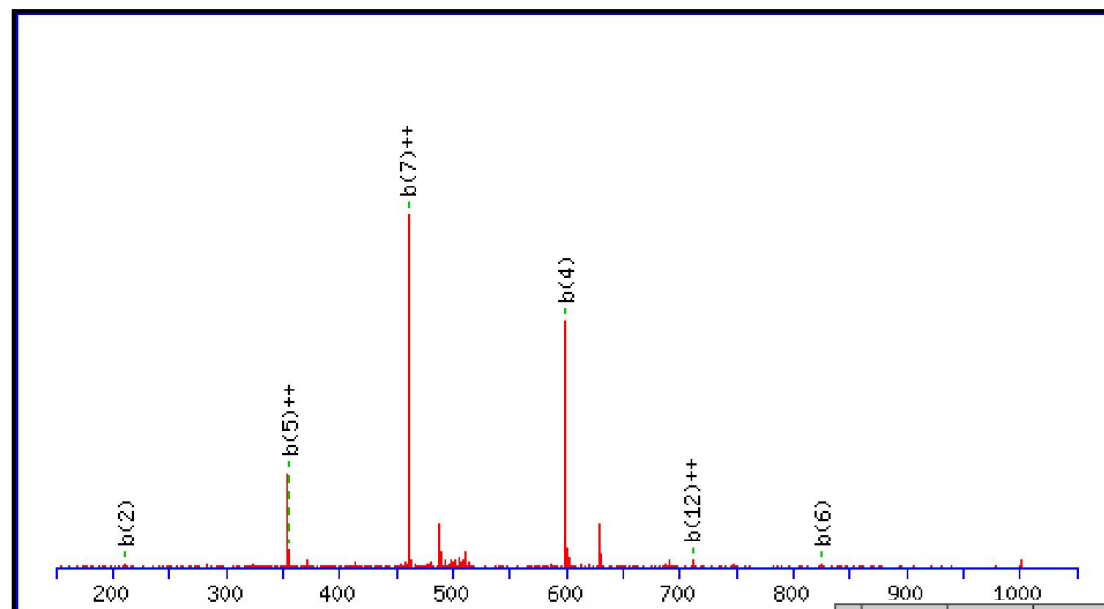
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							9
2	359.2674	180.1373	342.2409	171.6241			R	924.5010	462.7541	907.4744	454.2409	906.4904	453.7489	8
3	456.3202	228.6637	439.2936	220.1504			P	768.3999	384.7036	751.3733	376.1903	750.3893	375.6983	7
4	584.3787	292.6930	567.3522	284.1797			Q	671.3471	336.1772	654.3206	327.6639	653.3365	327.1719	6
5	671.4108	336.2090	654.3842	327.6957	653.4002	327.2037	S	543.2885	272.1479	526.2620	263.6346	525.2780	263.1426	5
6	768.4635	384.7354	751.4370	376.2221	750.4530	375.7301	P	456.2565	228.6319	439.2300	220.1186	438.2459	219.6266	4
7	855.4956	428.2514	838.4690	419.7381	837.4850	419.2461	S	359.2037	180.1055	342.1772	171.5922	341.1932	171.1002	3
8	952.5483	476.7778	935.5218	468.2645	934.5378	467.7725	P	272.1717	136.5895	255.1452	128.0762			2
9							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 9178: 1566.288402 from(523.303410, 3+) intensity(158448.1406)

Title: File2468 Spectrum11131 scans: 12484

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr1,2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide **Mr(calc): 1566.288402**

Fixed modifications: Carbamidomethyl (C) (apply to spec)

Variable modifications:

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 26 Expect: 1.1

Matches : 6/118 fragment ions using 9 most intense peaks

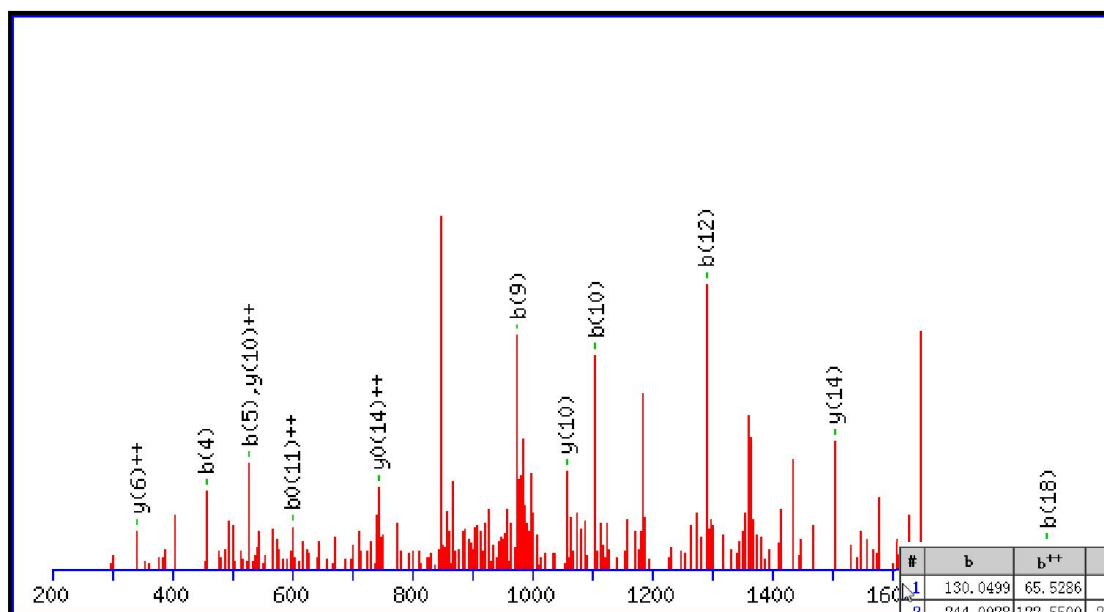
#	b	b ⁺⁺	b*	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	98.0600	49.5337					P							13
2	211.1441	106.0757					L	1470.8475	735.9274	1453.8210	727.4141	1452.8370	726.9221	12
3	397.2234	199.1153					W	1357.7635	679.3854	1340.7369	670.8721	1339.7529	670.3801	11
4	599.3824	300.1949	582.3559	291.6816			K	1171.6842	586.3457	1154.6576	577.8324	1153.6736	577.3404	10
5	712.4665	356.7369	695.4399	348.2236			I	969.5251	485.2662	952.4986	476.7529	951.5146	476.2609	9
6	825.5506	413.2789	808.5240	404.7656			I	856.4411	428.7242	839.4145	420.2109	838.4305	419.7189	8
7	922.6033	461.8053	905.5768	453.2920			P	743.3570	372.1821	726.3305	363.6689	725.3464	363.1769	7
8	1023.6510	512.3291	1006.6245	503.8159	1005.6404	503.3239	T	646.3042	323.6558	629.2777	315.1425	628.2937	314.6505	6
9	1124.6987	562.8530	1107.6721	554.3397	1106.6881	553.8477	T	545.2566	273.1319	528.2300	264.6186	527.2460	264.1266	5
10	1252.7573	626.8823	1235.7307	618.3690	1234.7467	617.8770	Q	444.2089	222.6081	427.1823	214.0948	426.1983	213.6028	4
11	1349.8100	675.4086	1332.7835	666.8954	1331.7995	666.4034	P	316.1503	158.5788			298.1397	149.5735	3
12	1420.8471	710.9272	1403.8206	702.4139	1402.8366	701.9219	A	219.0975	110.0524			201.0870	101.0471	2
13							E	148.0604	74.5339			130.0499	65.5286	1

Match to Query 15349: 2032.011688 from(1017.013120,2+) intensity(33112.8203)

Title: File2468 Spectrum9639 scans: 10892

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr1,2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 2031.9981**Fixed modifications:** Carbamidomethyl (C) (apply to specified)**Variable modifications:****K6** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 32 **Expect:** 0.28**Matches** : 12/212 fragment ions using 16 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺ *	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺ *	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	E							19
2	244.0928	122.5500	227.0662	114.0368	226.0822	113.5448	N	1903.9628	952.4851	1836.9363	943.9718	1835.9523	943.4798	18
3	357.1769	179.0921	340.1503	170.5788	339.1663	170.0868	I	1789.9199	895.4636	1772.8934	886.9503	1771.9094	886.4583	17
4	458.2245	229.6159	441.1980	221.1026	440.2140	220.6106	T	1676.8359	838.9216	1659.8093	830.4083	1658.8253	829.9163	16
5	529.2617	265.1345	512.2351	256.6212	511.2511	256.1292	A	1575.7882	788.3977	1558.7616	779.8845	1557.7776	779.3924	15
6	731.4207	366.2140	714.3941	357.7007	713.4101	357.2087	K	1504.7511	752.8792	1487.7245	744.3659	1486.7405	743.8739	14
7	802.4578	401.7325	785.4312	393.2193	784.4472	392.7272	A	1302.5920	651.7997	1285.5655	643.2864	1284.5815	642.7944	13
8	889.4898	445.2485	872.4633	436.7353	871.4792	436.2433	S	1231.6549	616.2811	1214.5284	607.7678	1213.5444	607.2758	12
9	976.5218	488.7646	959.4953	480.2513	958.5113	479.7593	S	1144.5229	572.7651	1127.4964	564.2518	1126.5123	563.7598	11
10	1105.5644	553.2859	1088.5379	544.7726	1087.5539	544.2806	E	1057.4909	529.2491	1040.4643	520.7358	1039.4803	520.2438	10
11	1220.5914	610.7993	1203.5648	602.2860	1202.5808	601.7940	D	928.4483	464.7278	911.4217	456.2145	910.4377	455.7225	9
12	1291.6285	646.3179	1274.6019	637.8046	1273.6179	637.3126	A	813.4213	407.2143	796.3948	398.7010	795.4108	398.2090	8
13	1348.6500	674.8286	1331.6234	666.3153	1330.6394	665.8233	G	742.3842	371.6958	725.3577	363.1825	724.3737	362.6905	7
14	1445.7027	723.3550	1428.6762	714.8417	1427.6921	714.3497	P	685.3628	343.1850	668.3362	334.6717	667.3522	334.1797	6
15	1532.7347	766.8710	1515.7082	758.3577	1514.7242	757.8657	S	588.3100	294.6586	571.2835	286.1454	570.2994	285.6534	5
16	1629.7875	815.3974	1612.7610	806.8841	1611.7769	806.3921	P	501.2780	251.1426	484.2514	242.6293	483.2674	242.1373	4
17	1757.8461	879.4267	1740.8195	870.9134	1739.8355	870.4214	Q	404.2252	202.6162	387.1987	194.1030	386.2146	193.6110	3
18	1858.8938	929.9505	1841.8672	921.4372	1840.8832	920.9452	T	276.1666	138.5870	259.1401	130.0737	258.1561	129.5817	2
19							R	175.1190	88.0631	158.0924	79.5498			1

MS/MS Fragmentation of **SKKEQVPSGAELER**

Found in **J3KP06**, LIM domain only protein 7 OS=Homo sapiens GN=LMO7 PE=4 SV=1

Match to Query 10535: 1686.906348 from(844.460450, 2+) intensity(147791.4844)

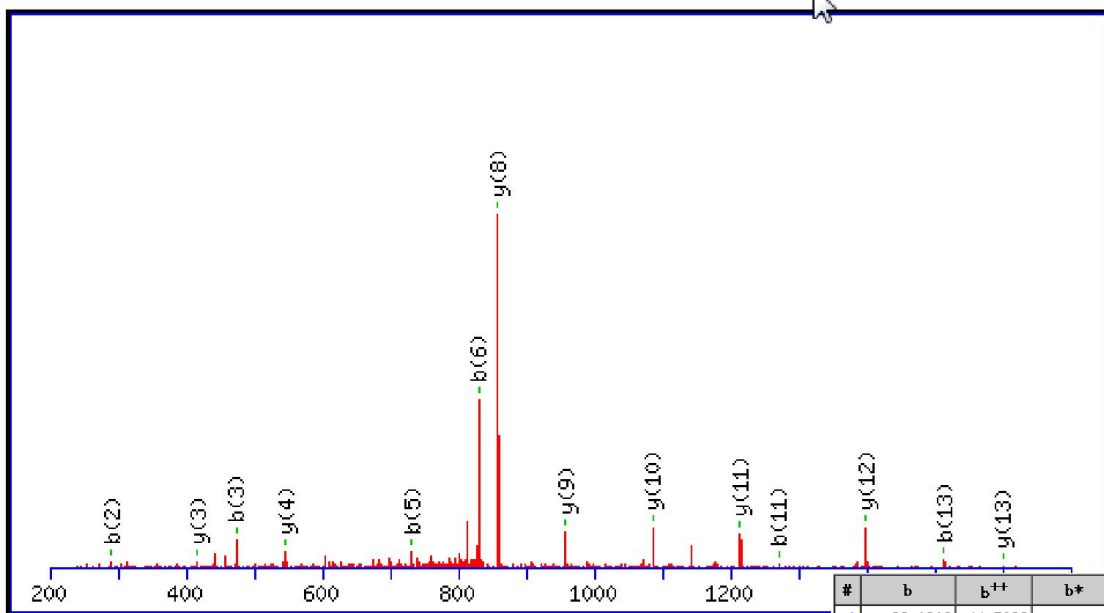
Title: File2468 Spectrum8789 scans: 9986

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr1, 2-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1686.!

Fixed modifications: Carbamidomethyl (C) (apply to speci

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K3 : Propionyl (K)

Ions Score: 83 Expect: 2.9e-006

Matches : 14/152 fragment ions using 14 most intense peaks

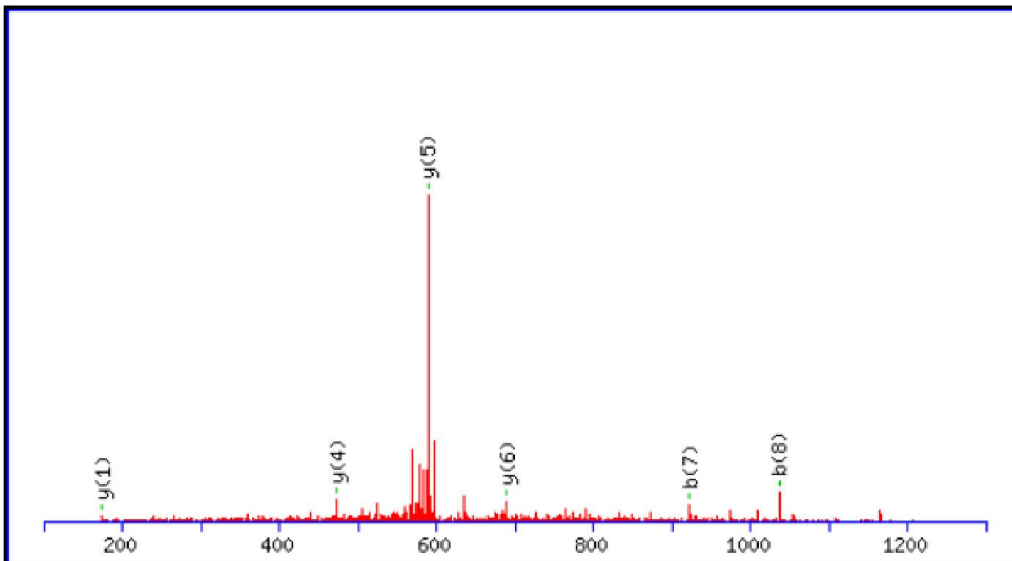
#	b	b ⁺⁺	b ⁺	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							14
2	290.1983	145.6028	273.1718	137.0895	272.1878	136.5975	K	1600.8813	800.9443	1583.8548	792.4310	1582.8708	791.9390	13
3	474.3195	237.6634	457.2929	229.1501	456.3089	228.6581	K	1398.7223	699.8648	1381.6958	691.3515	1380.7118	690.8595	12
4	603.3621	302.1847	586.3355	293.6714	585.3515	293.1794	E	1214.6012	607.8042	1197.5746	599.2909	1196.5906	598.7989	11
5	731.4207	366.2140	714.3941	357.7007	713.4101	357.2087	Q	1085.5586	543.2829	1068.5320	534.7696	1067.5480	534.2776	10
6	830.4891	415.7482	813.4625	407.2349	812.4785	406.7429	V	957.5000	479.2536	940.4734	470.7404	939.4894	470.2483	9
7	927.5418	464.2746	910.5153	455.7613	909.5313	455.2693	P	858.4316	429.7194	841.4050	421.2061	840.4210	420.7141	8
8	1014.5739	507.7906	997.5473	499.2773	996.5633	498.7853	S	761.3788	381.1930	744.3523	372.6798	743.3682	372.1878	7
9	1071.5953	536.3013	1054.5688	527.7880	1053.5848	527.2960	G	674.3468	337.6770	657.3202	329.1638	656.3362	328.6717	6
10	1142.6325	571.8199	1125.6059	563.3066	1124.6219	562.8146	A	617.3253	309.1663	600.2988	300.6530	599.3148	300.1610	5
11	1271.6750	636.3412	1254.6485	627.8279	1253.6645	627.3359	E	546.2882	273.6477	529.2617	265.1345	528.2776	264.6425	4
12	1384.7591	692.8832	1367.7326	684.3699	1366.7485	683.8779	L	417.2456	209.1264	400.2191	200.6132	399.2350	200.1212	3
13	1513.8017	757.4045	1496.7752	748.8912	1495.7911	748.3992	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
14							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 5340: 1210.725188 from(606.369870,2+) intensity(59204.6523)

Title: File2474 Spectrum12217 scans: 13685

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr3,4-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1209.7184

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

Variable modifications:

N-term : Propionyl-(13CD3)Methyl (Protein N-term)

K2 : Propionyl-(13CD3)Methyl (K)

Ions Score: 20 Expect: 2.7

Matches : 6/82 fragment ions using 11 most intense peaks

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	206.1118	103.5595					M							9
2	408.2708	204.6390	391.2443	196.1258			K	1005.6212	503.3142	988.5946	494.8009	987.6106	494.3089	8
3	521.3549	261.1811	504.3283	252.6678			L	803.4621	402.2347	786.4356	393.7214	785.4516	393.2294	7
4	622.4026	311.7049	605.3760	303.1916	604.3920	302.6996	T	690.3781	345.6927	673.3515	337.1794	672.3675	336.6874	6
5	737.4295	369.2184	720.4030	360.7051	719.4189	360.2131	D	589.3304	295.1688	572.3039	286.6556	571.3198	286.1636	5
6	824.4615	412.7344	807.4350	404.2211	806.4510	403.7291	S	474.3035	237.6554	457.2769	229.1421	456.2929	228.6501	4
7	923.5300	462.2686	906.5034	453.7553	905.5194	453.2633	V	387.2714	194.1394	370.2449	185.6261			3
8	1036.6140	518.8106	1019.5875	510.2974	1018.6035	509.8054	L	288.2030	144.6051	271.1765	136.0919			2
9							R	175.1190	88.0631	158.0924	79.5498			1

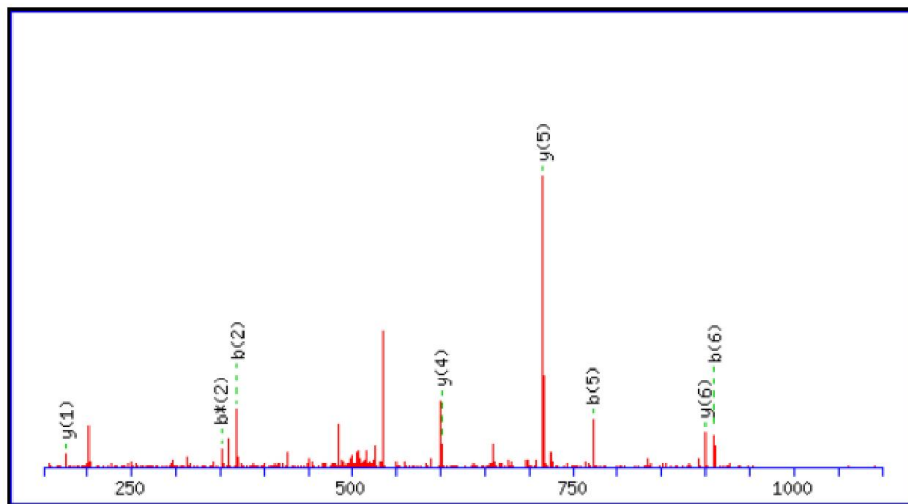
Found in **H7BZ93**, Histone-lysine N-methyltransferase SETD2 (Fragment) OS=Homo sapiens GN=SETD2 PE=4 SV=1

Match to Query 3595: 1082.644868 from(542.329710,2+) intensity(422100.2500)

Title: File2474 Spectrum3905 scans: 4809

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr3,4-ZW.mgf

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

Or, 150 to 1100 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1082.6469

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

Variable modifications:

K1 : Propionyl (K)

K2 : Propionyl (K)

K4 : Propionyl-(13CD3)Methyl (K)

Ions Score: 22 Expect: 1.9

Matches : 8/60 fragment ions using 17 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							7
2	369.2496	185.1285	352.2231	176.6152			K	899.5330	450.2701	882.5065	441.7569	881.5224	441.2649	6
3	483.2926	242.1499	466.2660	233.6366			N	715.4118	358.2096	698.3853	349.6963	697.4013	349.2043	5
4	685.4516	343.2294	668.4250	334.7161			K	601.3689	301.1881	584.3424	292.6748	583.3583	292.1828	4
5	772.4836	386.7454	755.4571	378.2322	754.4730	377.7402	S	399.2099	200.1086	382.1833	191.5953	381.1993	191.1033	3
6	909.5425	455.2749	892.5160	446.7616	891.5319	446.2696	H	312.1779	156.5926	295.1513	148.0793			2
7							R	175.1190	88.0631	158.0924	79.5498			1

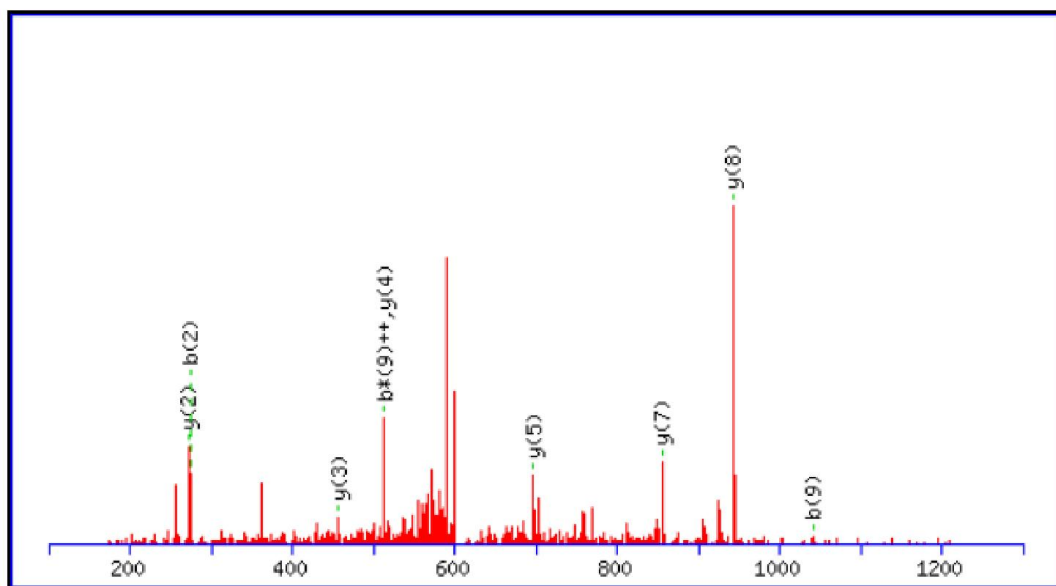
Found in **B4DKY1**, Cysteine--tRNA ligase, cytoplasmic OS=Homo sapiens GN=CARS PE=2 SV=1

Match to Query 5410: 1214.723128 from(608.368840,2+) intensity(91779.4063)

Title: File2474 Spectrum4830 scans: 5797

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr3,4-ZW.mgf

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

Or, 100 to 1300 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1214.7255

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

Variable modifications:

K2 : Propionyl-(13CD3)Methyl (K)

K6 : Propionyl (K)

K8 : Propionyl (K)

Ions Score: 50 Expect: 0.0024

Matches : 9/90 fragment ions using 11 most intense peaks

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							10
2	274.2034	137.6053	257.1769	129.0921			K	1144.6957	572.8515	1127.6692	564.3382	1126.6852	563.8462	9
3	361.2354	181.1214	344.2089	172.6081	343.2249	172.1161	S	942.5367	471.7720	925.5102	463.2587	924.5261	462.7667	8
4	448.2675	224.6374	431.2409	216.1241	430.2569	215.6321	S	855.5047	428.2560	838.4781	419.7427	837.4941	419.2507	7
5	519.3046	260.1559	502.2780	251.6427	501.2940	251.1506	A	768.4727	384.7400	751.4461	376.2267			6
6	703.4258	352.2165	686.3992	343.7032	685.4152	343.2112	K	697.4355	349.2214	680.4090	340.7081			5
7	760.4472	380.7272	743.4207	372.2140	742.4366	371.7220	G	513.3144	257.1608	496.2878	248.6475			4
8	944.5684	472.7878	927.5418	464.2746	926.5578	463.7826	K	456.2929	228.6501	439.2663	220.1368			3
9	1041.6212	521.3142	1024.5946	512.8009	1023.6106	512.3089	P	272.1717	136.5895	255.1452	128.0762			2
10							R	175.1190	88.0631	158.0924	79.5498			1

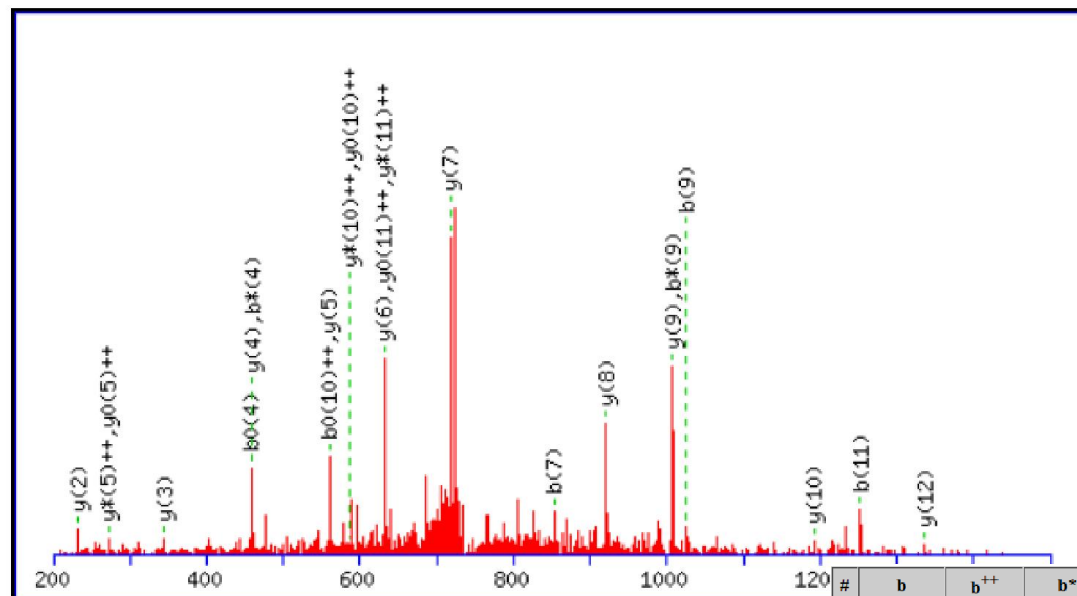
Found in **Q9H0H5**, Rac GTPase-activating protein 1 OS=Homo sapiens GN=RACGAP1 PE=1 SV=1

Match to Query 8290: 1481.813088 from(741.913820,2+) intensity(55957.7969)

Title: File2470 Spectrum8755 scans: 9996

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr13,14-ZW.mgf

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

Or, 200 to 1500 Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1481.8111
 Fixed modifications: Carbamidomethyl (C) (apply to specific
 Variable modifications:
 K4 : Propionyl (K)
 K6 : Propionyl-(13CD3)Methyl (K)
 Ions Score: 78 Expect: 7.6e-006
 Matches : 23/126 fragment ions using 26 most intense peak

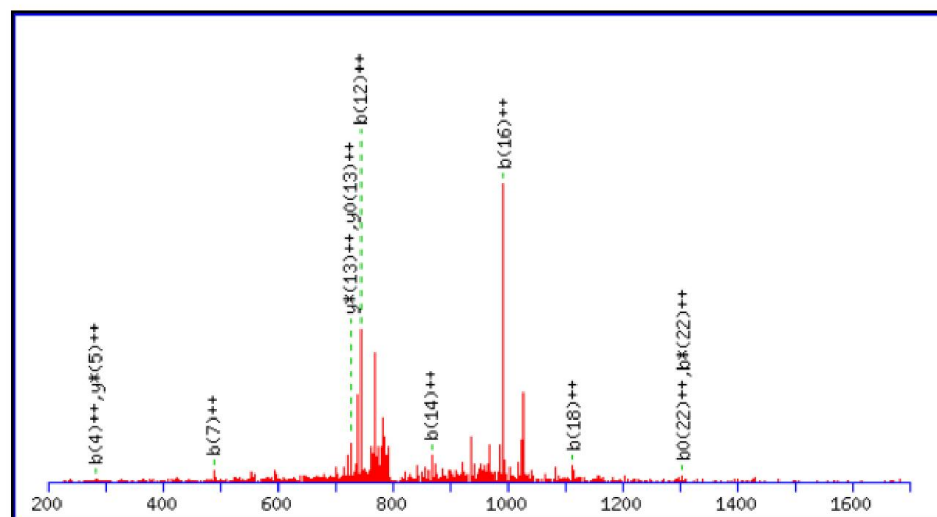
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	148.0757	74.5415					F							13
2	205.0972	103.0522					G	1335.7499	668.3786	1318.7234	659.8653	1317.7394	659.3733	12
3	292.1292	146.5682			274.1186	137.5629	S	1278.7285	639.8679	1261.7019	631.3546	1260.7179	630.8626	11
4	476.2504	238.6288	459.2238	230.1155	458.2398	229.6235	K	1191.6964	596.3519	1174.6699	587.8386	1173.6859	587.3466	10
5	563.2824	282.1448	546.2558	273.6316	545.2718	273.1395	S	1007.5753	504.2913	990.5487	495.7780	989.5647	495.2860	9
6	765.4414	383.2243	748.4149	374.7111	747.4308	374.2191	K	920.5432	460.7753	903.5167	452.2620	902.5327	451.7700	8
7	852.4734	426.7404	835.4469	418.2271	834.4629	417.7351	S	718.3842	359.6958	701.3577	351.1825	700.3737	350.6905	7
8	923.5105	462.2589	906.4840	453.7456	905.5000	453.2536	A	631.3522	316.1797	614.3257	307.6665	613.3416	307.1745	6
9	1024.5582	512.7827	1007.5317	504.2695	1006.5477	503.7775	T	560.3151	280.6612	543.2885	272.1479	542.3045	271.6559	5
10	1138.6011	569.8042	1121.5746	561.2909	1120.5906	560.7989	N	459.2674	230.1373	442.2409	221.6241			4
11	1251.6852	626.3462	1234.6587	617.8330	1233.6746	617.3410	L	345.2245	173.1159	328.1979	164.6026			3
12	1308.7067	654.8570	1291.6801	646.3437	1290.6961	645.8517	G	232.1404	116.5738	215.1139	108.0606			2
13							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 20874: 3205.751176 from(802.445070,4+) intensity(46632.4727)

Title: File2473 Spectrum15088 scans: 16639

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr19,20ZW.mgf

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

Or, 200 1700 Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 3205.7296

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

K7 : Propionyl (K)

K19 : Propionyl (K)

Ions Score: 21 Expect: 4.2

Matches : 11/302 fragment ions using 15 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							27
2	302.2347	151.6210	285.2082	143.1077			V	3004.5779	1502.7926	2987.5513	1494.2793	2986.5673	1493.7873	26
3	417.2616	209.1335	400.2351	200.6212	399.2511	200.1292	D	2905.5094	1453.2584	2888.4829	1444.7451	2887.4989	1444.2531	25
4	564.3301	282.6687	547.3035	274.1554	546.3195	273.6634	F	2790.4825	1395.7449	2773.4559	1387.2316	2772.4719	1386.7396	24
5	679.3570	340.1821	662.3305	331.6689	661.3464	331.1769	D	2643.4141	1322.2107	2626.3875	1313.6974	2625.4035	1313.2054	23
6	792.4411	396.7242	775.4145	388.2109	774.4305	387.7189	I	2528.3871	1264.6972	2511.3606	1256.1839	2510.3766	1255.6919	22
7	976.5622	488.7848	959.5357	480.2715	958.5517	479.7795	K	2415.3031	1208.1552	2398.2765	1199.6419	2397.2925	1199.1499	21
8	1033.5837	517.2955	1016.5572	508.7822	1015.5731	508.2902	G	2231.1819	1116.0946	2214.1553	1107.5813	2213.1713	1107.0893	20
9	1148.6107	574.8090	1131.5841	566.2957	1130.6001	565.8037	D	2174.1604	1087.5839	2157.1339	1079.0706	2156.1499	1078.5786	19
10	1263.6376	632.3224	1246.6110	623.8092	1245.6270	623.3172	D	2059.1335	1030.0704	2042.1069	1021.5571	2041.1229	1021.0651	18
11	1376.7217	688.8645	1359.6951	680.3512	1358.7111	679.8592	L	1944.1065	972.5569	1927.0800	964.0436	1926.0960	963.5516	17
12	1489.8057	745.4065	1472.7792	736.8932	1471.7952	736.4012	I	1831.0225	916.0149	1813.9959	907.5016	1813.0119	907.0096	16
13	1588.8741	794.9407	1571.8476	786.4274	1570.8636	785.9354	V	1717.9384	859.4728	1700.9119	850.9596	1699.9279	850.4676	15
14	1735.9426	868.4749	1718.9160	859.9616	1717.9920	859.4696	F	1618.8700	809.9386	1601.8435	801.4254	1600.8594	800.9334	14
15	1849.0266	925.0169	1832.0001	916.5037	1831.0161	916.0117	L	1471.8016	736.4044	1454.7750	727.8912	1453.7910	727.3992	13
16	1986.0855	993.5464	1969.0590	985.0331	1968.0750	984.5411	H	1358.7175	679.8624	1341.6910	671.3491	1340.7070	670.8571	12
17	2099.1696	1050.0884	2082.1430	1041.5752	2081.1590	1041.0832	I	1221.6586	611.3329	1204.6321	602.8197	1203.6480	602.3277	11
18	2227.2282	1114.1177	2210.2016	1105.6044	2209.2176	1105.1124	Q	1108.5746	554.7909	1091.5480	546.2776	1090.5640	545.7856	10
19	2411.3493	1206.1783	2394.3228	1197.6650	2393.3388	1197.1730	K	980.5160	490.7616	963.4894	482.2483	962.5054	481.7563	9
20	2512.3970	1256.7022	2495.3705	1248.1889	2494.3865	1247.6969	T	796.3948	398.7010	779.3682	390.1878	778.3842	389.6958	8
21	2569.4185	1285.2129	2552.3919	1276.6996	2551.4079	1276.2076	G	695.3471	348.1772	678.3206	339.6639	677.3366	339.1719	7
22	2626.4400	1313.7236	2609.4134	1305.2108	2608.4294	1304.7183	G	638.3257	319.6665	621.2991	311.1532	620.3151	310.6612	6
23	2727.4876	1364.2475	2710.4611	1355.7342	2709.4771	1355.2422	T	581.3042	291.1557	564.2776	282.6425	563.2936	282.1504	5
24	2828.5353	1414.7713	2811.5088	1406.2580	2810.5247	1405.7660	T	480.2565	240.6319	463.2300	232.1186	462.2459	231.6266	4
25	2975.6037	1488.3055	2958.5772	1479.7922	2957.5932	1479.3002	F	379.2088	190.1081	362.1823	181.5948			3
26	3032.6252	1516.8162	3015.5986	1508.3030	3014.6146	1507.8110	G	232.1404	116.5738	215.1139	108.0606			2
27							R	175.1190	88.0631	158.0924	79.5498			1

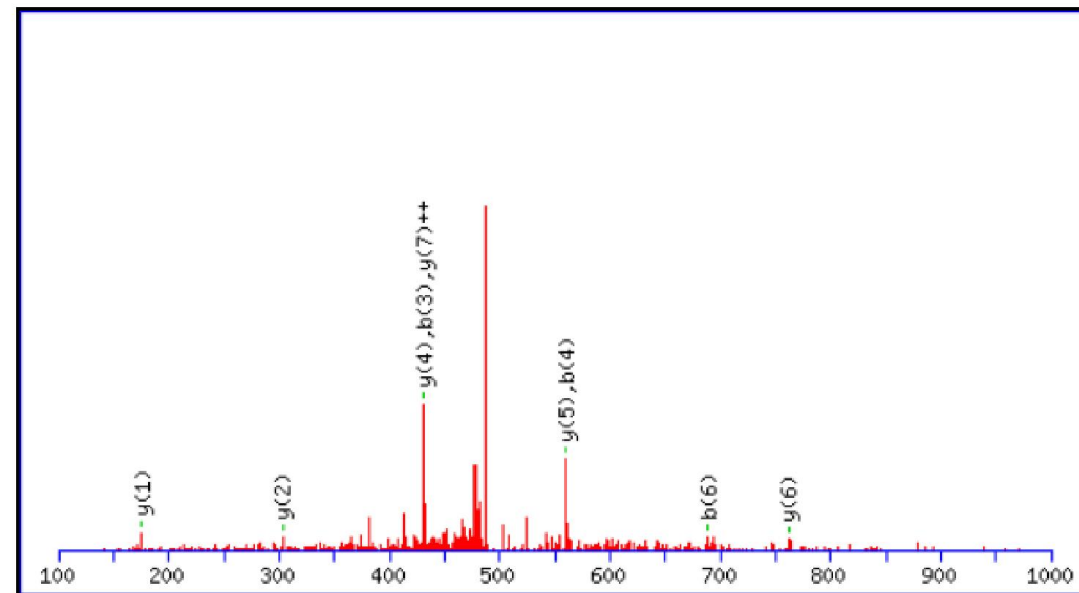
Found in **Q27J81**, Inverted formin-2 OS=Homo sapiens GN=INF2 PE=1 SV=2

Match to Query 1872: 989.541848 from(495.778200,2+) intensity(19062.1289)

Title: File2472 Spectrum4569 scans: 5487

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr17,18-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 989.5414

Fixed modifications: Carbamidomethyl (C) (apply to specific)

Variable modifications:

N-term : Acetyl (Protein N-term)

K3 : Propionyl-(13CD3)Methyl (K)

Ions Score: 38 Expect: 0.048

Matches : 9/72 fragment ions using 9 most intense peaks

#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	S							8
2	229.1183	115.0628			211.1077	106.0575	V	861.5061	431.2567	844.4796	422.7434	843.4956	422.2514	7
3	431.2773	216.1423	414.2507	207.6290	413.2667	207.1370	K	762.4377	381.7225	745.4112	373.2092	744.4271	372.7172	6
4	560.3199	280.6636	543.2933	272.1503	542.3093	271.6583	E	560.2787	280.6430	543.2522	272.1297	542.2681	271.6377	5
5	617.3414	309.1743	600.3148	300.6610	599.3308	300.1690	G	431.2361	216.1217	414.2096	207.6084			4
6	688.3785	344.6929	671.3519	336.1796	670.3679	335.6876	A	374.2146	187.6110	357.1881	179.0977			3
7	816.4370	408.7222	799.4105	400.2089	798.4265	399.7169	Q	303.1775	152.0924	286.1510	143.5791			2
8							R	175.1190	88.0631	158.0924	79.5498			1

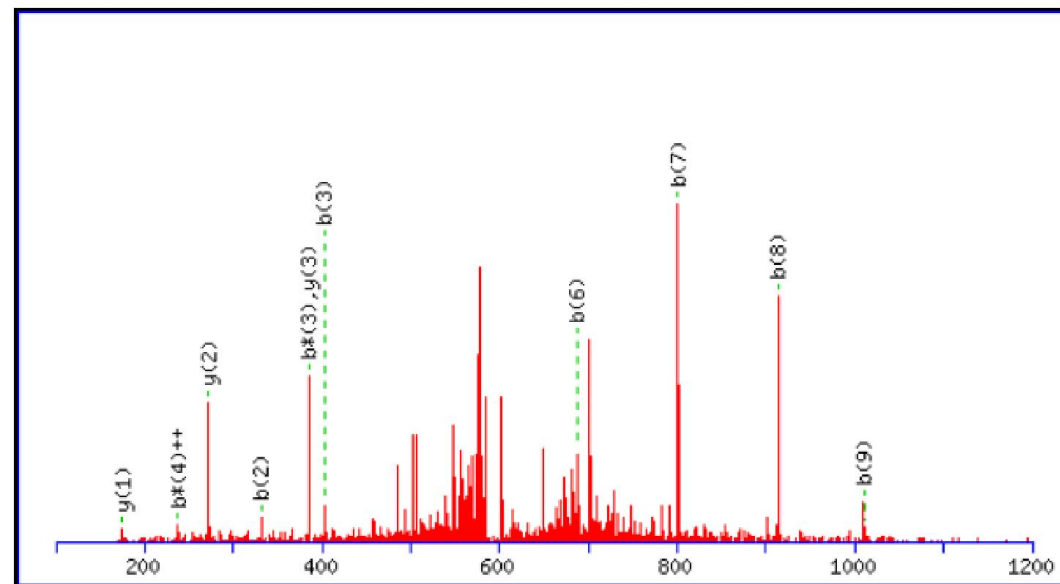
Found in **K7EK29**, Protein Hook homolog 2 OS=Homo sapiens GN=HOOK2 PE=4 SV=1

Match to Query 5846: 1183.728988 from(592.871770,2+) intensity(394601.5938)

Title: File2471 Spectrum11151 scans: 12358

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr15,16-ZW.mgf

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

Or, 100 to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1183.7197

Fixed modifications: Carbamidomethyl (C) (apply to specific)

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

Ions Score: 33 Expect: 0.13

Matches : 11/94 fragment ions using 21 most intense peaks

#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735			K							10
2	331.2249	166.1161	314.1983	157.6028			Q	982.5680	491.7876	965.5415	483.2744	964.5574	482.7824	9
3	402.2620	201.6346	385.2354	193.1214			A	854.5094	427.7584	837.4829	419.2451	836.4989	418.7531	8
4	489.2940	245.1506	472.2675	236.6374	471.2834	236.1454	S	783.4723	392.2398	766.4458	383.7265	765.4618	383.2345	7
5	586.3468	293.6770	569.3202	285.1638	568.3362	284.6717	P	696.4403	348.7238	679.4137	340.2105	678.4297	339.7185	6
6	687.3945	344.2009	670.3679	335.6876	669.3839	335.1956	T	599.3875	300.1974	582.3610	291.6841	581.3770	291.1921	5
7	800.4785	400.7429	783.4520	392.2296	782.4680	391.7376	L	498.3398	249.6736	481.3133	241.1603			4
8	913.5626	457.2849	896.5360	448.7717	895.5520	448.2796	I	385.2558	193.1315	368.2292	184.6183			3
9	1010.6153	505.8113	993.5888	497.2980	992.6048	496.8060	P	272.1717	136.5895	255.1452	128.0762			2
10							R	175.1190	88.0631	158.0924	79.5498			1

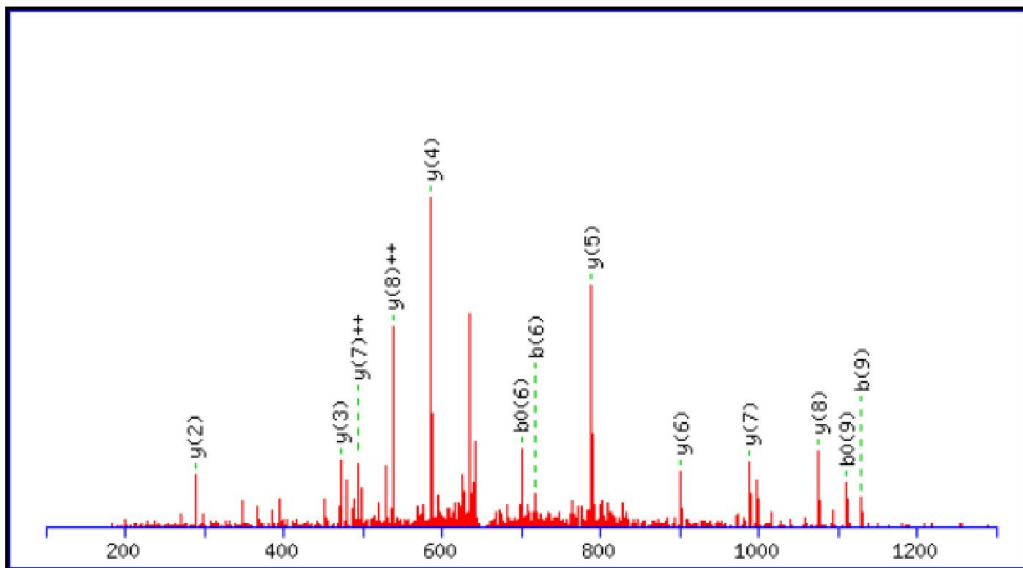
Found in **P35579**, Myosin-9 OS=Homo sapiens GN=MYH9 PE=1 SV=4

Match to Query 7849: 1302.779768 from(652.397160,2+) intensity(1046549.3750)

Title: File2471 Spectrum13819 scans: 15204

Data file \\192.168.1.105\public\File_exchange\Wu_Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr15,16-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1302.7780

Fixed modifications: Carbamidomethyl (C) (apply to specified)

Variable modifications:

K6 : Propionyl-(13CD3)Methyl (K)

K8 : Propionyl (K)

Ions Score: 47 Expect: 0.0061

Matches : 13/86 fragment ions using 23 most intense peaks

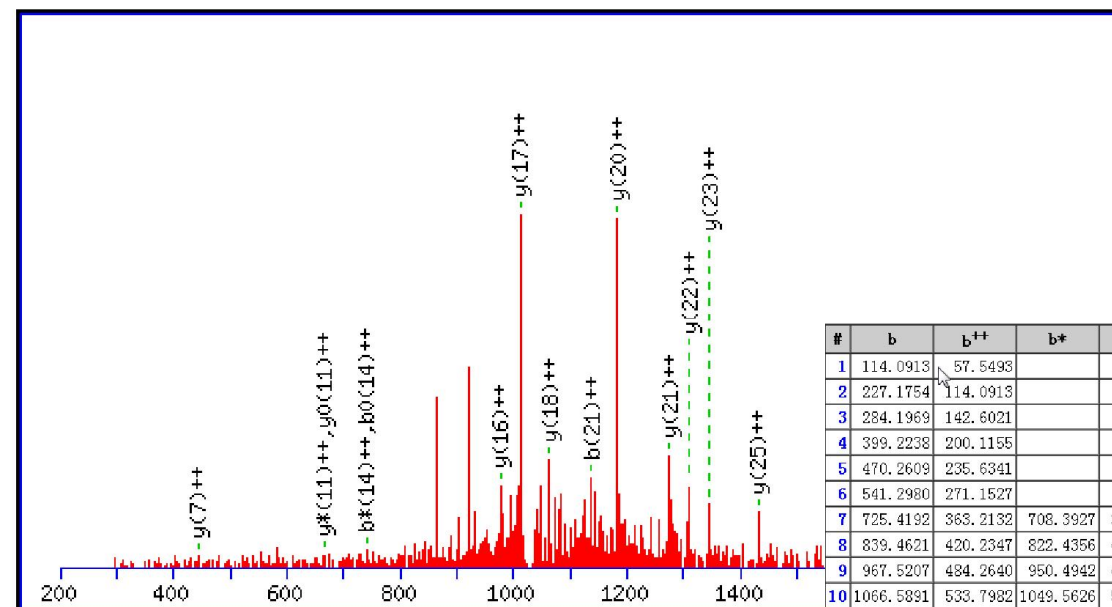
#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	E							10
2	229.1183	115.0628			211.1077	106.0575	V	1174.7427	587.8750	1157.7161	579.3617	1156.7321	578.8697	9
3	316.1503	158.5788			298.1397	149.5735	S	1075.6743	538.3408	1058.6477	529.8275	1057.6637	529.3355	8
4	403.1823	202.0948			385.1718	193.0895	S	988.6422	494.8248	971.6157	486.3115	970.6317	485.8195	7
5	516.2664	258.6368			498.2558	249.6316	L	901.6102	451.3087	884.5836	442.7955			6
6	718.4254	359.7163	701.3989	351.2031	700.4149	350.7111	K	788.5261	394.7667	771.4996	386.2534			5
7	832.4683	416.7378	815.4418	408.2245	814.4578	407.7325	N	586.3671	293.6872	569.3406	285.1739			4
8	1016.5895	508.7984	999.5630	500.2851	998.5790	499.7931	K	472.3242	236.6657	455.2976	228.1525			3
9	1129.6736	565.3404	1112.6470	556.8272	1111.6630	556.3351	L	288.2030	144.6051	271.1765	136.0919			2
10							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 178397: 3089.709732 from(1030.910520, 3+) intensity(268016.9688)

Title: File2475 Spectrum192127 scans: 20487

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr5, 6ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc): 3089****Fixed modifications:** Carbamidomethyl (C) (apply to spec)**Variable modifications:****K7** : Propionyl (K)**M12** : Label:13C(1)2H(3)+Oxidation (M)**K22** : Propionyl-(13C3)Methyl (K)**Ions Score: 23 Expect: 1.8****Matches : 15/280 fragment ions using 34 most intense peak**

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							27
2	227.1754	114.0913					I	2977.6069	1489.3071	2960.5804	1480.7938	2959.5964	1480.3018	26
3	284.1969	142.6021					G	2864.5229	1432.7651	2847.4963	1424.2518	2846.5123	1423.7598	25
4	399.2238	200.1155			381.2132	191.1103	D	2807.5014	1404.2543	2790.4748	1395.7411	2789.4908	1395.2491	24
5	470.2609	235.6341			452.2504	225.6288	A	2692.4745	1346.7409	2675.4479	1338.2276	2674.4639	1337.7356	23
6	541.2980	271.1527			523.2875	262.1474	A	2621.4373	1311.2223	2604.4108	1302.7090	2603.4268	1302.2170	22
7	725.4192	363.2132	708.3927	354.7000	707.4087	354.2080	K	2550.4002	1275.7037	2533.3737	1267.1905	2532.3897	1266.6985	21
8	839.4621	420.2347	822.4356	411.7214	821.4516	411.2294	N	2366.2790	1183.6432	2349.2525	1175.1299	2348.2685	1174.6379	20
9	967.5207	484.2640	950.4942	475.7507	949.5102	475.2587	Q	2252.2361	1126.6217	2235.2096	1118.1084	2234.2256	1117.6164	19
10	1066.5891	533.7982	1049.5626	525.2849	1048.5786	524.7929	V	2124.1775	1062.5924	2107.1510	1054.0791	2106.1670	1053.5871	18
11	1137.6263	569.3168	1120.5997	560.8035	1119.6157	560.3115	A	2025.1091	1013.0582	2008.0826	1004.5449	2007.0986	1004.0529	17
12	1288.6838	644.8456	1271.6573	636.3323	1270.6733	635.8403	N	1954.0720	977.5396	1937.0455	969.0264	1936.0614	968.5344	16
13	1402.7268	701.8670	1385.7002	693.3537	1384.7162	692.8617	N	1803.0144	902.0109	1785.9879	893.4976	1785.0039	893.0056	15
14	1499.7795	750.3934	1482.7530	741.8801	1481.7690	741.3881	P	1682.9715	844.9894	1671.9450	836.4761	1670.9609	835.9841	14
15	1627.8381	814.4227	1610.8116	805.9094	1609.8275	805.4174	Q	1591.9187	796.4630	1574.8922	787.9497	1573.9082	787.4577	13
16	1741.8810	871.4442	1724.8545	862.9309	1723.8705	862.4389	N	1463.8602	732.4337	1446.8336	723.9204	1445.8496	723.4284	12
17	1842.9287	921.9630	1825.9022	913.4547	1824.9181	912.9627	T	1349.8172	675.4123	1332.7907	666.8990	1331.8067	666.4070	11
18	1941.9971	971.5022	1924.9706	962.9839	1923.9866	962.4969	V	1248.7696	624.8884	1231.7430	616.3751	1230.7590	615.8831	10
19	2089.0655	1045.0364	2072.0390	1036.5231	2071.0550	1036.0311	F	1149.7011	575.3542	1132.6746	566.8409	1131.6906	566.3489	9
20	2204.0925	1102.5499	2187.0659	1094.0366	2186.0819	1093.5446	D	1002.8327	501.8200	985.8062	493.3067	984.8222	492.8147	8
21	2275.1296	1138.0684	2258.1030	1129.5552	2257.1190	1129.0632	A	887.6058	444.3065	870.5792	435.7933			7
22	2477.2886	1239.1479	2460.2621	1230.6347	2459.2780	1230.1427	K	816.5687	408.7880	799.5421	400.2747			6
23	2633.3897	1317.1985	2616.3632	1308.6852	2615.3792	1308.1932	R	614.4097	307.7085	597.3831	299.1952			5
24	2746.4738	1373.7405	2729.4472	1365.2273	2728.4632	1364.7352	L	458.3085	229.6579	441.2820	221.1446			4
25	2859.5578	1430.2826	2842.5313	1421.7693	2841.5473	1421.2773	I	345.2245	173.1159	328.1979	164.6026			3
26	2916.5793	1458.7933	2899.5528	1450.2800	2898.5687	1449.7880	G	232.1404	116.5738	215.1139	108.0606			2
27							R	175.1190	88.0631	158.0924	79.5498			1

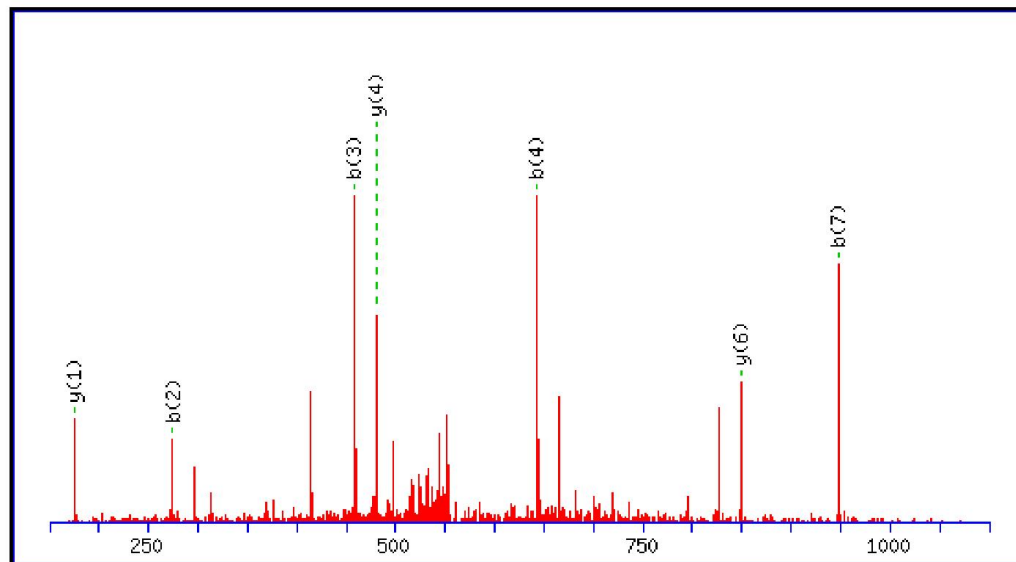
MS/MS Fragmentation of **KAKKAHPR**Found in **E9PL73**, Protein FAM9B OS=Homo sapiens GN=FAM9B PE=2 SV=1

Match to Query 34632: 1120.697488 from(561.356020, 2+) intensity(202018.6406)

Title: File2475 Spectrum181455 scans: 8846

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr5, 6ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1120.6989**Fixed modifications:** Carbamidomethyl (C) (apply to specified)**Variable modifications:****K1** : Propionyl-(13CD3)Methyl (K)**K3** : Propionyl (K)**K4** : Propionyl (K)**Ions Score:** 26 **Expect:** 0.47**Matches** : 7/56 fragment ions using 10 most intense peaks (help)

#	b	b ⁺⁺	b*	b* ⁺⁺	Seq.	y	y ⁺⁺	y*	y* ⁺⁺	#
1	203.1663	102.0868	186.1397	93.5735	K					8
2	274.2034	137.6053	257.1769	129.0921	A	919.5472	460.2772	902.5207	451.7640	7
3	458.3246	229.6659	441.2980	221.1527	K	848.5101	424.7587	831.4835	416.2454	6
4	642.4458	321.7265	625.4192	313.2132	K	664.3889	332.6981	647.3624	324.1848	5
5	713.4829	357.2451	696.4563	348.7318	A	480.2677	240.6375	463.2412	232.1242	4
6	850.5418	425.7745	833.5152	417.2613	H	409.2306	205.1190	392.2041	196.6057	3
7	947.5945	474.3009	930.5680	465.7876	P	272.1717	136.5895	255.1452	128.0762	2
8					R	175.1190	88.0631	158.0924	79.5498	1

MS/MS Fragmentation of **FVPAEMGTHTVSVVKYKGGQHVPGSPFQFTVGPLGEGGAHKVVR**

Found in **Q5HY54**, Filamin-A OS=Homo sapiens GN=FLNA PE=2 SV=1

Match to Query 191879: 4523.332696 from(1131.840450,4+) intensity(0.0000)

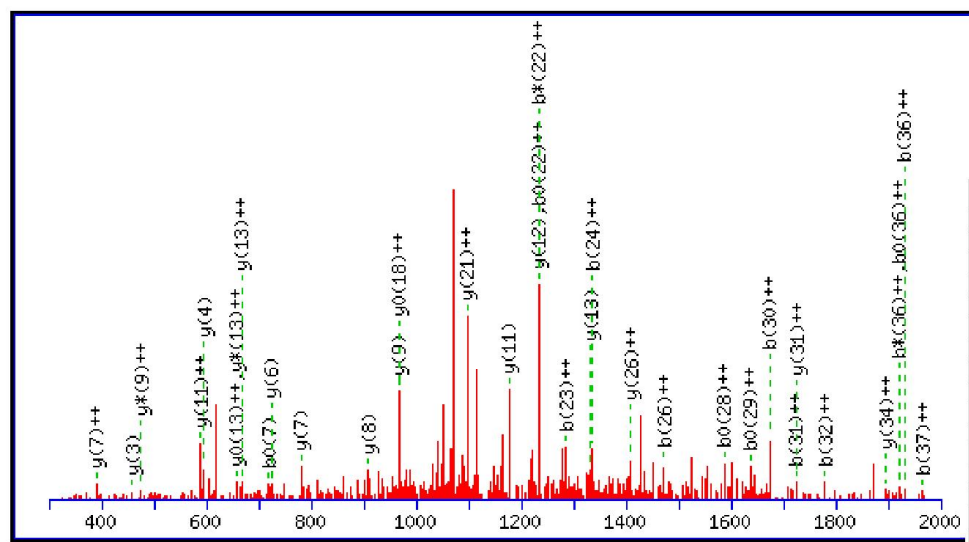
Title: File2475 Spectrum188372 scans: 16226

Data file \\192.168.1.105\public\File_exchange\Wu Zhixiang\SIMM7721_new\7721\2013-7-19-7721-Fr5, 6ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 4523.3606
Fixed modifications: Carbamidomethyl (C) (apply to specified residues or to all)
Variable modifications:
M6 : Label:13C(1)2H(3) (M)
K14 : Propionyl (K)
K16 : Propionyl-(13CD3)Methyl (K)
K39 : Propionyl (K)
Ions Score: 43 Expect: 0.034
Matches : 35/432 fragment ions using 51 most intense peaks ([help](#))

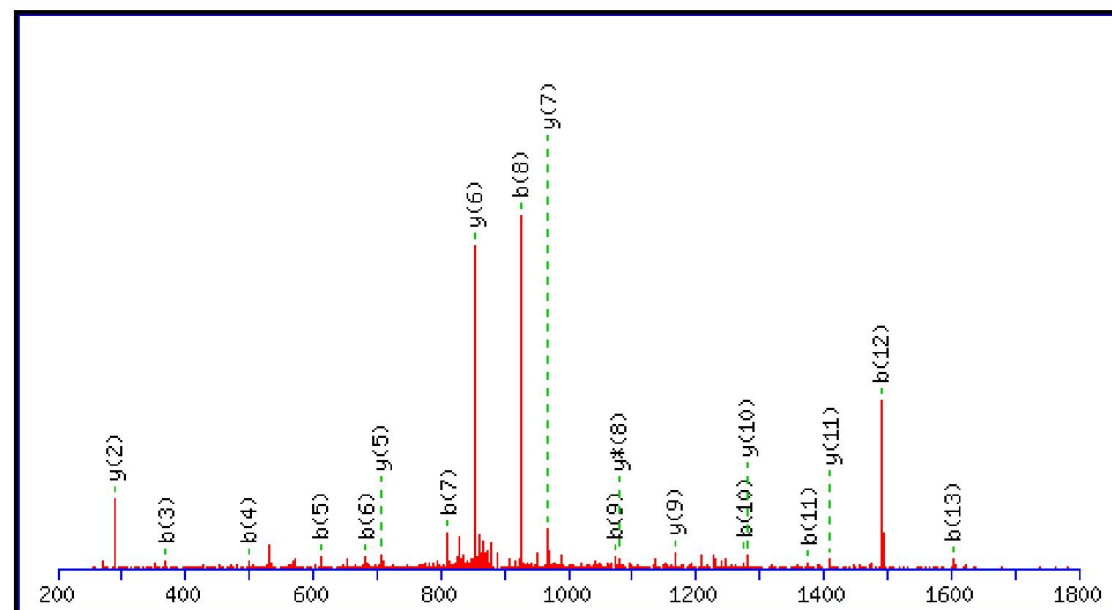
#	b	b ⁺⁺	b [*]	b ⁺⁺	b ⁰	b ⁰⁺⁺	Seq	y	y ⁺⁺	y [*]	y ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	148.0757	74.5415					F							1
2	247.1441	124.0757					V	4377.2994	2109.1533	4360.2729	2180.6401	4359.2888	2180.1461	40
3	344.1069	172.6021					F							39
4	415.2840	208.1208					A	4181.1782	2091.0927	4184.1517	2082.5795	4183.1677	2082.0875	38
5	544.2766	272.6419			526.2660	263.6396	E	4110.1411	2055.5742	4093.1146	2047.0609	4092.1305	2046.5689	37
6	679.3362	340.1733			661.3287	331.1690	H	3981.0985	1991.0529	3964.0720	1982.5395	3953.0879	1982.0476	36
7	736.3807	368.6840			718.3501	359.6787	G	3845.0358	1923.5216	3829.0093	1915.0083	3828.0253	1914.5163	35
8	837.4084	419.2078			819.3978	410.2025	T	3789.0144	1895.0108	3771.9678	1888.4976	3771.0038	1886.0055	34
9	974.4873	487.7373			956.4567	478.7320	H	3687.9657	1844.4870	3670.9402	1835.9737	3659.9561	1835.4817	33
10	1075.5150	538.2611			1057.5044	529.2558	T	3550.9078	1775.9575	3533.8612	1767.4443	3532.8972	1766.9522	32
11	1174.5834	587.7953			1156.5729	578.7901	V	3449.8501	1725.4337	3432.8336	1716.9204	3431.8495	1716.4284	31
12	1261.6154	631.3113			1243.6049	622.3051	S	3350.7917	1675.9955	3333.7851	1667.3862	3332.7811	1666.8942	30
13	1360.6838	680.8458			1342.6733	671.8403	V	3263.7597	1632.3835	3246.7331	1623.8702	3245.7491	1623.3782	29
14	1544.8050	772.9061	1527.7785	764.3929	1526.7944	763.9009	K	3164.6913	1582.8493	3147.6647	1574.3350	3148.6807	1573.8440	28
15	1707.8863	854.4378	1690.8418	845.9245	1689.8578	845.4325	Y	2980.5701	1490.7887	2963.5435	1482.2754	2962.5595	1481.7834	27
16	1910.0274	955.5173	1893.0008	947.0040	1892.0168	946.5120	K	2817.5087	1409.2570	2800.4802	1400.7437	2799.4982	1400.2517	26
17	1987.0466	984.0290	1950.0223	975.5148	1949.0383	975.0228	G	2615.3477	1308.1775	2598.3212	1299.6642	2597.3372	1298.1722	25
18	2095.1074	1049.0573	2078.0606	1039.5441	2077.0969	1039.0521	Q	2558.3263	1279.6668	2541.2997	1271.1535	2540.3157	1270.6615	24
19	2232.1863	1118.5868	2215.1398	1108.0735	2214.1557	1107.5815	H	2430.2877	1215.6375	2413.2411	1207.1242	2412.2571	1206.6322	23
20	2331.2347	1168.1210	2314.2082	1157.6077	2313.2242	1157.1157	V	2293.2088	1147.1080	2276.1822	1138.5948	2275.1982	1138.1027	22
21	2428.2875	1214.6474	2411.2609	1206.1341	2410.2769	1205.8421	F	2194.1404	1097.5738	2177.1138	1089.0605	2178.1298	1088.5685	21
22	2495.3090	1243.1581	2498.2824	1234.6448	2467.2984	1234.1528	G	2097.0976	1049.0474	2080.0611	1040.5342	2079.0770	1040.0422	20
23	2572.3410	1286.6744	2555.3144	1276.1609	2554.3304	1277.6696	S	2040.0661	1020.5367	2023.0396	1012.0234	2022.0596	1011.5314	19
24	2659.3937	1335.2005	2652.3672	1326.6872	2651.3632	1326.1952	F	1953.0341	977.0207	1936.0076	969.5074	1935.0235	968.0154	18
25	2816.4522	1408.7347	2799.4356	1400.2214	2798.4515	1399.7234	F	1855.9813	928.4943	1838.9548	919.9810	1837.9708	919.4990	17
26	2944.5207	1472.7840	2927.4942	1464.2507	2926.5102	1463.7587	Q	1708.9128	854.9801	1691.8664	846.4468	1690.9024	845.9548	16
27	3091.5941	1548.2982	3074.5628	1537.7849	3073.5785	1537.2929	F	1580.8954	790.9308	1563.8278	782.4175	1562.8438	781.9255	15
28	3182.6368	1596.8221	3175.6103	1586.3089	3174.6263	1587.6166	T	1433.7944	717.3966	1416.7594	708.8833	1415.7754	708.3913	14
29	3291.7052	1646.3563	3274.6787	1637.8430	3273.6947	1637.3510	V	1332.7383	666.8728	1315.7117	659.3595	1314.7277	657.8675	13
30	3348.7267	1674.8670	3331.7002	1666.3537	3330.7161	1665.8617	G	1233.6698	617.3386	1216.6433	608.8253	1215.6593	608.3333	12
31	3445.7795	1723.3934	3428.7529	1714.8801	3427.7689	1714.3881	F	1178.6484	588.8278	1159.8218	580.3146	1158.8378	579.8225	11
32	3558.8835	1779.9354	3541.8370	1771.4221	3540.8530	1770.9301	L	1079.5958	540.3014	1062.5891	531.7882	1061.5851	531.2982	10
33	3645.8850	1808.4461	3588.8584	1799.9329	3597.8744	1799.4406	G	986.5116	483.7594	949.4850	475.2481	948.5010	474.7541	9
34	3744.9276	1872.9674	3727.9010	1864.4542	3726.9170	1863.9622	G	909.4901	455.2497	892.4635	446.7354	891.4795	446.2434	8
35	3801.9491	1901.4792	3794.9225	1892.9649	3793.9385	1892.4729	G	780.4475	390.7274	763.4209	382.2141			7
36	3858.9705	1929.9889	3841.9440	1921.4758	3840.9600	1920.9836	G	723.4260	362.2187	706.3095	353.7034			6
37	3930.0076	1965.5075	3912.9811	1956.9942	3911.9971	1956.5022	A	668.4048	333.7059	649.3780	325.1928			5
38	4087.0685	2034.0369	4050.0400	2025.5238	4049.0560	2025.0316	H	585.3875	298.1874	578.3408	289.8741			4
39	4251.1977	2128.0975	4234.1612	2117.5842	4233.1772	2117.0922	K	458.3085	229.6579	441.2620	221.1446			3
40	4350.2561	2175.6317	4333.2296	2167.1184	4332.2455	2166.6294	V	274.1974	137.5973	257.1609	129.0840			2
41							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 12347: 1777.001068 from(889.507810, 2+) intensity(600015.4375)

Title: File2140 Spectrum12734 scans: 13935

Data file I:\2013-12-03-SIMM7721-FR1-12-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1777.

Fixed modifications: Carbamidomethyl (C) (apply to spec:

Variable modifications:

K10 : Propionyl-(13CD3)Methyl (K)

Ions Score: 79 Expect: 6.5e-006

Matches : 19/142 fragment ions using 31 most intense peak

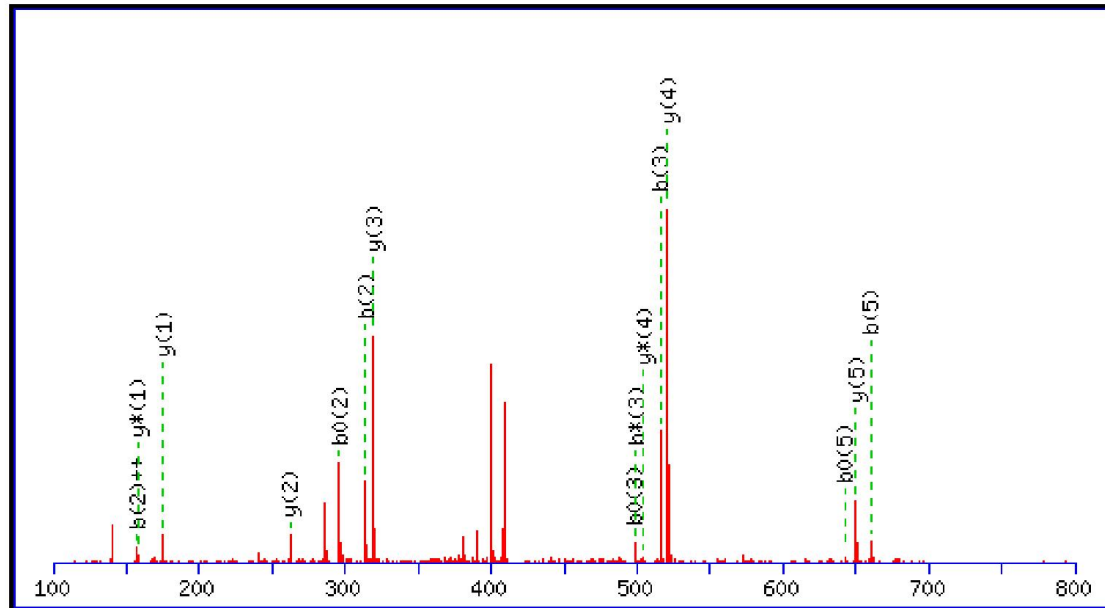
#	b	b ⁺⁺	b ⁺	b ⁺ +	b ⁰	b ⁰ +	Seq.	y	y ⁺⁺	y ⁺	y ⁺ +	y ⁰	y ⁰ +	#
1	114.0913	57.5493					L							14
2	213.1598	107.0835					V	1664.9239	832.9656	1647.8973	824.4523	1646.9133	823.9603	13
3	369.2649	185.1341	352.2343	176.6208			R	1565.8555	783.4314	1548.8289	774.9181	1547.8449	774.4261	12
4	498.3035	249.6554	481.2769	241.1421	480.2929	240.6501	B	1409.7544	705.3808	1392.7278	696.8675	1391.7438	696.3755	11
5	611.3875	306.1974	594.3610	297.6941	593.3770	297.1921	I	1280.7118	640.8595	1263.6852	632.3462	1262.7012	631.8542	10
6	682.4246	341.7160	665.3981	333.2027	664.4141	332.7107	A	1167.6277	584.3175	1150.6012	575.8042	1149.6171	575.3122	9
7	810.4832	405.7452	793.4567	397.2320	792.4726	396.7400	Q	1096.5906	548.7989	1079.5640	540.2857	1078.5800	539.7936	8
8	925.5102	463.2587	908.4836	454.7454	907.4996	454.2534	D	968.5320	484.7696	951.5055	476.2564	950.5214	475.7644	7
9	1072.5786	536.7929	1055.5520	528.2796	1054.5680	527.7876	F	853.5051	427.2562	836.4785	418.7429	835.4945	418.2509	6
10	1274.7376	637.8724	1257.7110	629.3592	1256.7270	628.8671	K	706.4367	353.7220	689.4101	345.2087	688.4261	344.7167	5
11	1375.7853	688.3963	1358.7587	679.8830	1357.7747	679.3910	T	504.2776	252.6425	487.2511	244.1292	486.2671	243.6372	4
12	1490.8122	745.9097	1473.7857	737.3965	1472.8016	736.9045	D	403.2300	202.1186	386.2034	193.6053	385.2194	193.1133	3
13	1603.8963	802.4518	1586.8697	793.9385	1585.8857	793.4465	L	288.2030	144.6051	271.1765	136.0919			2
14							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 1118: 833.487948 from(417.751250, 2+) intensity(336946.6563)

Title: File2140 Spectrum2369 scans: 3105

Data file I:\2013-12-03-SIMM7721-FR1-12-ZW.mgf

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

Or, to DaLabel all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 833.4879**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K1** : Propionyl (K)**K3** : Propionyl-(13CD3)Methyl (K)**Ions Score:** 35 **Expect:** 0.098**Matches** : 15/56 fragment ions using 26 most intense peak

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							6
2	314.1710	157.5892	297.1445	149.0759	296.1605	148.5839	K	650.3741	325.6907	633.3475	317.1774	632.3635	316.6854	5
3	516.3301	258.6687	499.3035	250.1554	498.3195	249.6634	K	521.3315	261.1694	504.3049	252.6561	503.3209	252.1641	4
4	573.3515	287.1794	556.3250	278.6661	555.3410	278.1741	G	319.1724	160.0899	302.1459	151.5766	301.1619	151.0846	3
5	660.3836	330.6954	643.3570	322.1821	642.3730	321.6901	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
6							R	175.1190	88.0631	158.0924	79.5498			1

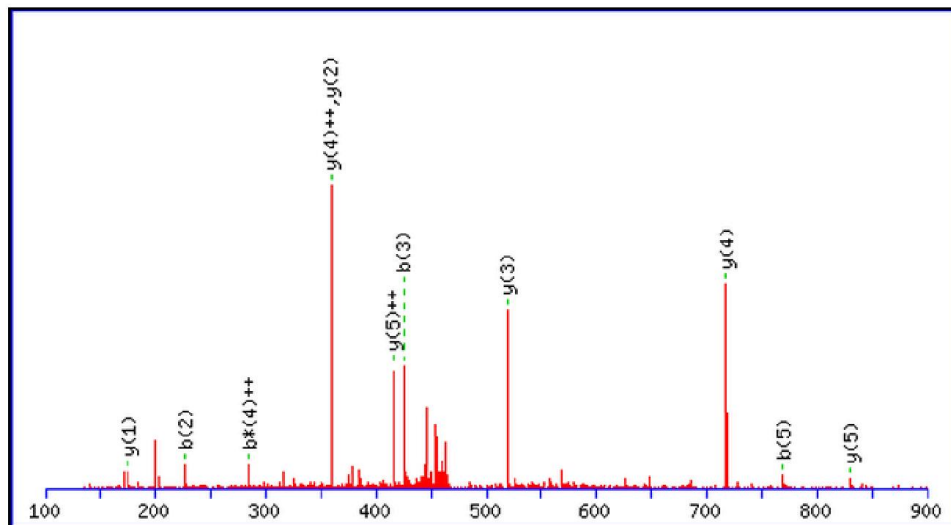
MS/MS Fragmentation of **LLKCKR**Found in **P17568|NDUB7_HUMAN** in **Uniprot_Human**, NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 7 OS=Homo sapiens GN=NDUFB7 PE=1 SV=4

Match to Query 2324: 942.567908 from(472.291230,2+) intensity(57368.6758) rtinseconds(1352) scans(8425) index(7488)

Title: File1029 Spectrum7615 scans: 8425

Data file 2013-7-21-liver-Ca-Fr7,8-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring Show Y-axis 

Monoisotopic mass of neutral peptide Mr(calc) : 942.5684

Fixed modifications: Carbamidom

Variable modifications:

K3 : Propionyl-Methylation

K5 : Propionyl (K)

Ions Score: 26 Expect: 0.94

Matches : 11/36 fragment ions u

#	b	b ⁺⁺	b [*]	b ^{*++}	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
1	114.0913	57.5493			L					6
2	227.1754	114.0913			L	830.4917	415.7495	813.4651	407.2362	5
3	425.3122	213.1598	408.2857	204.6465	K	717.4076	359.2074	700.3811	350.6942	4
4	585.3429	293.1751	568.3163	284.6618	C	519.2708	260.1390	502.2442	251.6258	3
5	769.4641	385.2357	752.4375	376.7224	K	359.2401	180.1237	342.2136	171.6104	2
6					R	175.1190	88.0631	158.0924	79.5498	1

MS/MS Fragmentation of **NRYVKVPR**

Found in **C9JQE1|C9JQE1_HUMAN** in **Uniprot_Human**, Mitochondrial inner membrane protease subunit 2 OS=Homo sapiens GN=IMMP2L PE=2 SV=1

Match to Query 4410: 1100.635708 from(551.325130,2+) intensity(18755.7891) rtinseconds(1395) scans(8723) index(7755)

406

Title: File1029 Spectrum7895 scans: 8723

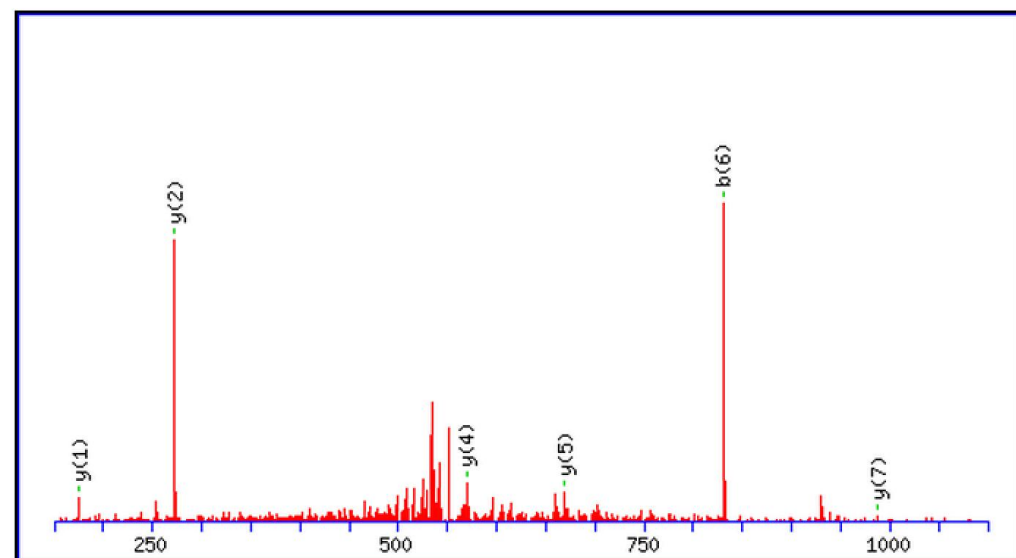
Data file 2013-7-21-liver-Ca-Fr7,8-ZW.mgf

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

Or, Plot from to Da

Label all possible matches Label matches used for scoring

Show Y-axis



Monoisotopic mass of neutral peptide Mr(calc): 11

Fixed modifications: Carbamidomethyl (C) (apply t

Variable modifications:

K5 : Propionyl-Methylation (K)

Ions Score: 31 Expect: 0.39

Matches : 6/56 fragment ions using 10 most intens

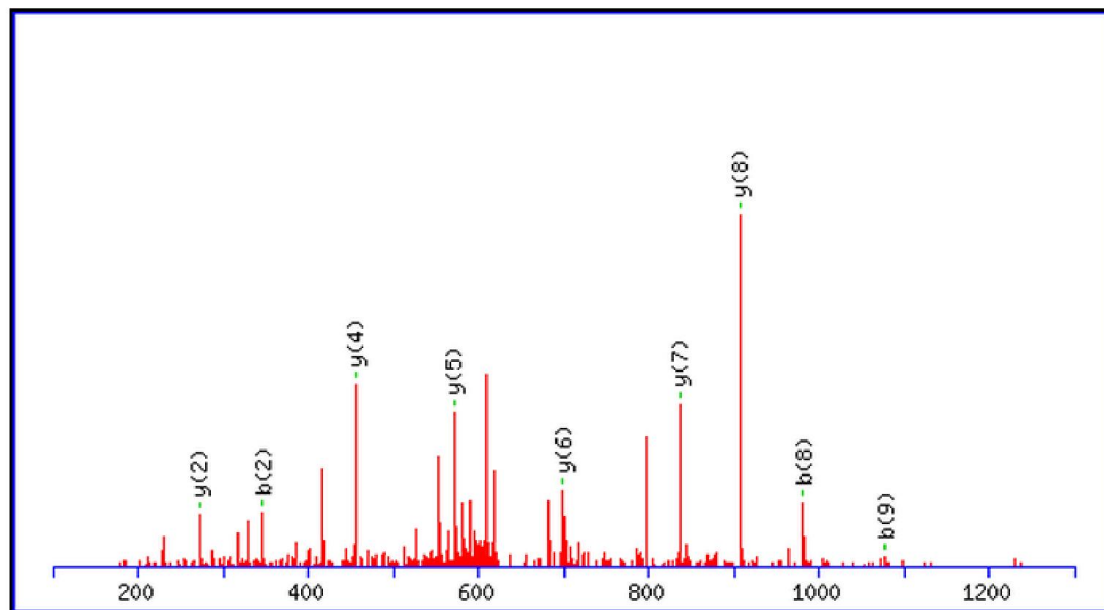
#	b	b ⁺⁺	b*	b ^{*++}	Seq.	y	y ⁺⁺	y*	y ^{*++}	#
1	115.0502	58.0287	98.0237	49.5155	N					8
2	271.1513	136.0793	254.1248	127.5660	R	987.6098	494.3085	970.5833	485.7953	7
3	434.2146	217.6110	417.1881	209.0977	Y	831.5087	416.2580	814.4822	407.7447	6
4	533.2831	267.1452	516.2565	258.6319	V	668.4454	334.7263	651.4188	326.2130	5
5	731.4199	366.2136	714.3933	357.7003	K	569.3770	285.1921	552.3504	276.6788	4
6	830.4883	415.7478	813.4618	407.2345	V	371.2401	186.1237	354.2136	177.6104	3
7	927.5411	464.2742	910.5145	455.7609	P	272.1717	136.5895	255.1452	128.0762	2
8					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 5947: 1251.672088 from(626.843320,2+) intensity(31733.7090) rtinseconds(1386) scans(6589) index(5577)

Title: File969 Spectrum5592 scans: 6589

Data file 2013-7-18-liver-Ca-Fr9,10-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring Show Y-axis 

Monoisotopic mass of neutral peptide Mr(calc):

Fixed modifications: Carbamidomethyl (C) (applied)

Variable modifications:

K2 : Propionyl-Methylation (K)

Ions Score: 54 Expect: 0.0013

Matches : 9/88 fragment ions using 11 most intense

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	148.0757	74.5415					F							10
2	346.2125	173.6099	329.1860	165.0966			K	1105.6113	553.3093	1088.5847	544.7960	1087.6007	544.3040	9
3	417.2496	209.1285	400.2231	200.6152			A	907.4744	454.2409	890.4479	445.7276	889.4639	445.2356	8
4	554.3085	277.6579	537.2820	269.1446			H	836.4373	418.7223	819.4108	410.2090	818.4268	409.7170	7
5	682.3671	341.6872	665.3406	333.1739			Q	699.3784	350.1928	682.3519	341.6796	681.3678	341.1876	6
6	797.3941	399.2007	780.3675	390.6874	779.3835	390.1954	D	571.3198	286.1636	554.2933	277.6503	553.3093	277.1583	5
7	868.4312	434.7192	851.4046	426.2060	850.4206	425.7139	A	456.2929	228.6501	439.2663	220.1368			4
8	981.5152	491.2613	964.4887	482.7480	963.5047	482.2560	L	385.2558	193.1315	368.2292	184.6183			3
9	1078.5680	539.7876	1061.5415	531.2744	1060.5574	530.7824	P	272.1717	136.5895	255.1452	128.0762			2
10							R	175.1190	88.0631	158.0924	79.5498			1

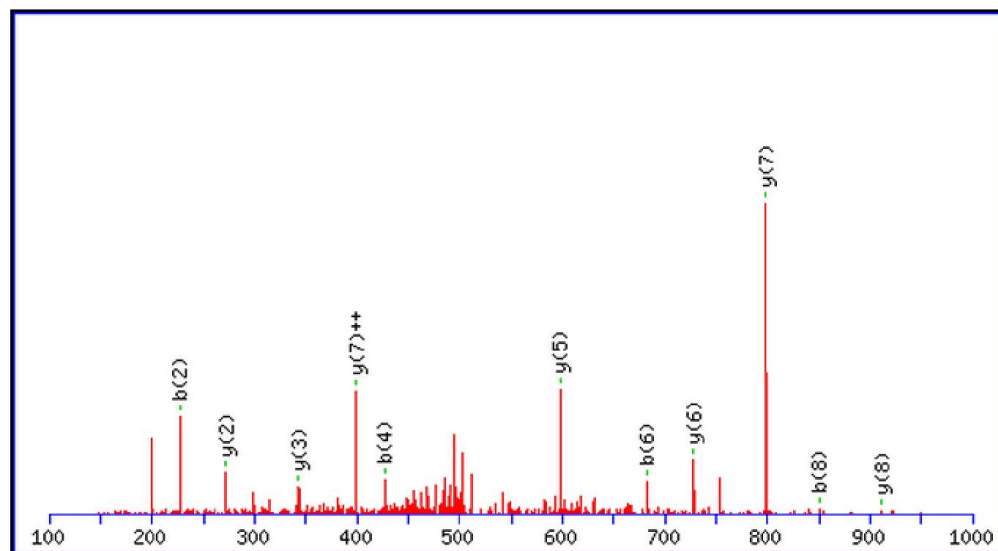
Match to Query 2492: 1023.609468 from(512.812010,2+) intensity(40682.7891) rtinseconds(1510) scans(7416) index(6342)

408

Title: File969 Spectrum6358 scans: 7416

Data file 2013-7-18-liver-Ca-Fr9,10-ZW.mgf

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

Or, 100 1000 Da Label all possible matches Label matches used for scoring Show Y-axis 

Monoisotopic mass of neutral peptide Mr(calc): 1023.6077

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

Variable modifications:

K6 : Propionyl-Methylation (K)

Ions Score: 46 Expect: 0.0035

Matches : 11/70 fragment ions using 1

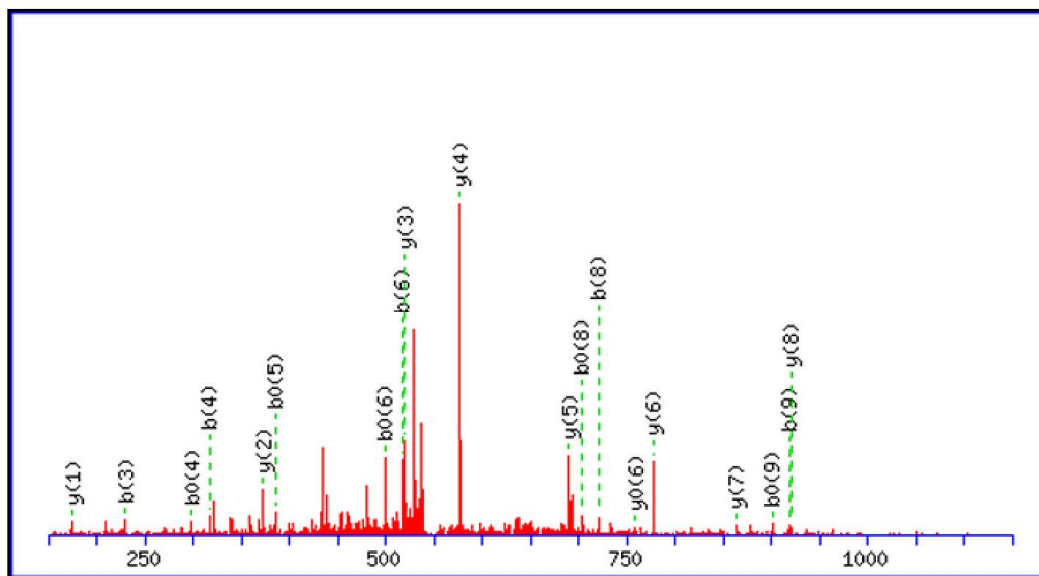
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							9
2	227.1754	114.0913					I	911.5309	456.2691	894.5043	447.7558	893.5203	447.2638	8
3	298.2125	149.6099					A	798.4468	399.7271	781.4203	391.2138	780.4363	390.7218	7
4	427.2551	214.1312			409.2445	205.1259	E	727.4097	364.2085	710.3832	355.6952	709.3992	355.2032	6
5	484.2766	242.6419			466.2660	233.6366	G	598.3671	299.6872	581.3406	291.1739			5
6	682.4134	341.7103	665.3869	333.1971	664.4028	332.7051	K	541.3457	271.1765	524.3191	262.6632			4
7	753.4505	377.2289	736.4240	368.7156	735.4400	368.2236	A	343.2088	172.1081	326.1823	163.5948			3
8	850.5033	425.7553	833.4767	417.2420	832.4927	416.7500	P	272.1717	136.5895	255.1452	128.0762			2
9							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 3765: 1092.555888 from(547.285220,2+) intensity(179640.7813) rtinseconds(2030) scans(11483) index(10208)

Title: File973 Spectrum10235 scans: 11483

Data file 2013-7-21-liver-Ca-Fr19,20-ZW.mgf

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

Or, 150 to Da Label all possible matches Label matches used for scoring Show Y-axis 

Monoisotopic mass of neutral pept:

Fixed modifications: Carbamidomethyl

Variable modifications:

K9 : Propionyl-Methylation (K)

Ions Score: 39 Expect: 0.033

Matches : 19/82 fragment ions used

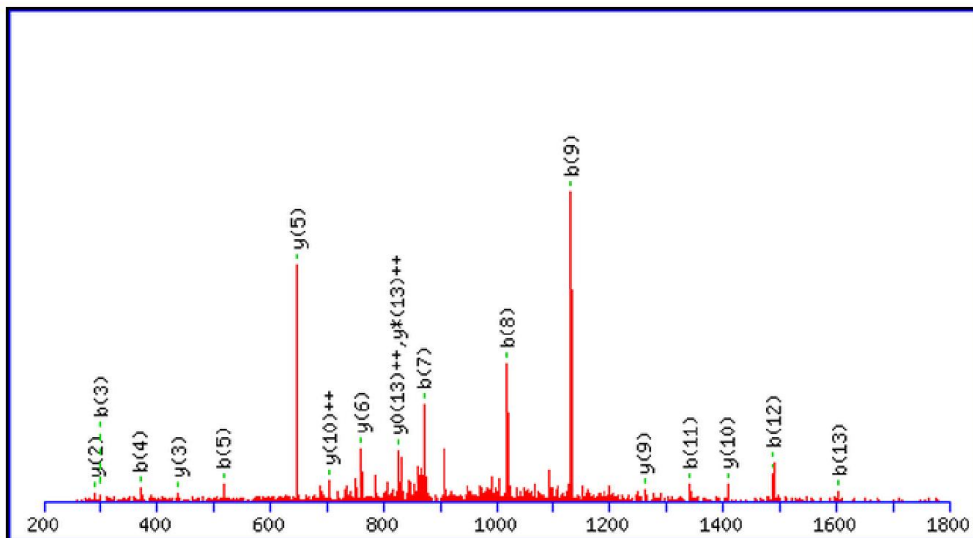
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	116.0342	58.5207			98.0237	49.5155	D							10
2	173.0557	87.0315			155.0451	78.0262	G	978.5367	489.7720	961.5102	481.2587	960.5261	480.7667	9
3	230.0771	115.5422			212.0666	106.5369	G	921.5152	461.2613	904.4887	452.7480	903.5047	452.2560	8
4	317.1092	159.0582			299.0986	150.0529	S	864.4938	432.7505	847.4672	424.2373	846.4832	423.7452	7
5	404.1412	202.5742			386.1306	193.5690	S	777.4618	389.2345	760.4352	380.7212	759.4512	380.2292	6
6	517.2253	259.1163			499.2147	250.1110	L	690.4297	345.7185	673.4032	337.2052			5
7	574.2467	287.6270			556.2362	278.6217	G	577.3457	289.1765	560.3191	280.6632			4
8	721.3151	361.1612			703.3046	352.1559	F	520.3242	260.6657	503.2976	252.1525			3
9	919.4520	460.2296	902.4254	451.7164	901.4414	451.2243	K	373.2558	187.1315	356.2292	178.6183			2
10							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 13326: 1776.954328 from(889.484440,2+) intensity(133526.0625) rtinseconds(3649) scans(23129) index(20952)

Title: File973 Spectrum21095 scans: 23129

Data file 2013-7-21-liver-Ca-Fr19,20-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Show Y-axis 

Monoisotopic mass of neutral peptide Mr(calc): 1

Fixed modifications: Carbamidomethyl (C) (apply

Variable modifications:

N-term : Acetyl (Protein N-term)

K7 : Propionyl-Methylation (K)

Ions Score: 51 Expect: 0.004

Matches : 18/126 fragment ions using 32 most int

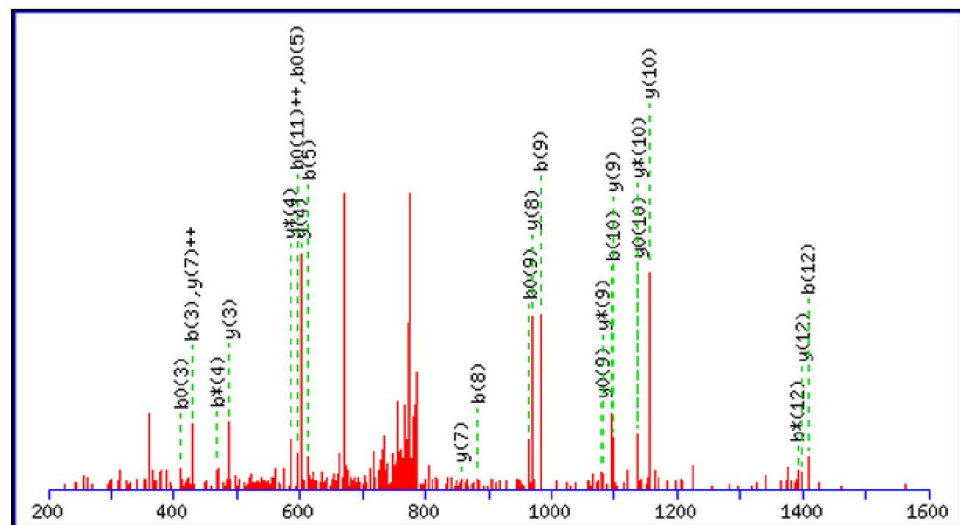
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0550	57.5311					A							14
2	171.0764	86.0418					G	1664.9271	832.9672	1647.9006	824.4539	1646.9166	823.9619	13
3	299.1350	150.0711	282.1084	141.5579			Q	1607.9057	804.4565	1590.8791	795.9432	1589.8951	795.4512	12
4	370.1721	185.5897	353.1456	177.0764			A	1479.8471	740.4272	1462.8205	731.9139	1461.8365	731.4219	11
5	517.2405	259.1239	500.2140	250.6106			F	1408.8100	704.9086	1391.7834	696.3953	1390.7994	695.9033	10
6	673.3416	337.1745	656.3151	328.6612			R	1261.7416	631.3744	1244.7150	622.8611	1243.7310	622.3691	9
7	871.4785	436.2429	854.4519	427.7296			K	1105.6404	553.3239	1088.6139	544.8106	1087.6299	544.3186	8
8	1018.5469	509.7771	1001.5203	501.2638			F	907.5036	454.2554	890.4771	445.7422	889.4930	445.2502	7
9	1131.6309	566.3191	1114.6044	557.8058			L	760.4352	380.7212	743.4087	372.2080	742.4246	371.7160	6
10	1228.6837	614.8455	1211.6572	606.3322			P	647.3511	324.1792	630.3246	315.6659	629.3406	315.1739	5
11	1341.7678	671.3875	1324.7412	662.8742			L	550.2984	275.6528	533.2718	267.1396	532.2878	266.6475	4
12	1488.8362	744.9217	1471.8096	736.4085			F	437.2143	219.1108	420.1878	210.5975	419.2037	210.1055	3
13	1603.8631	802.4352	1586.8366	793.9219	1585.8526	793.4299	D	290.1459	145.5766	273.1193	137.0633	272.1353	136.5713	2
14							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 12908: 1581.849588 from(791.932070,2+) intensity(69950.4141) rtinseconds(1271) scans(7048) index(6197)

Title: File1025 Spectrum6211 scans: 7048

Data file 2013-7-21-liver-Ca-Fr17,18-ZW.mgf

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

Or, 200 1600 Label all possible matches Label matches used for scoring Show Y-axis 

Monoisotopic mass of neutral peptide Mr(calc): 1581.8587

Fixed modifications: Carbamidomethyl (C) (applied)

Variable modifications:

N-term : Propionyl-Methylation (Protein N-term)

K12 : Propionyl-Methylation (K)

Ions Score: 26 Expect: 0.89

Matches : 25/126 fragment ions using 61 most i

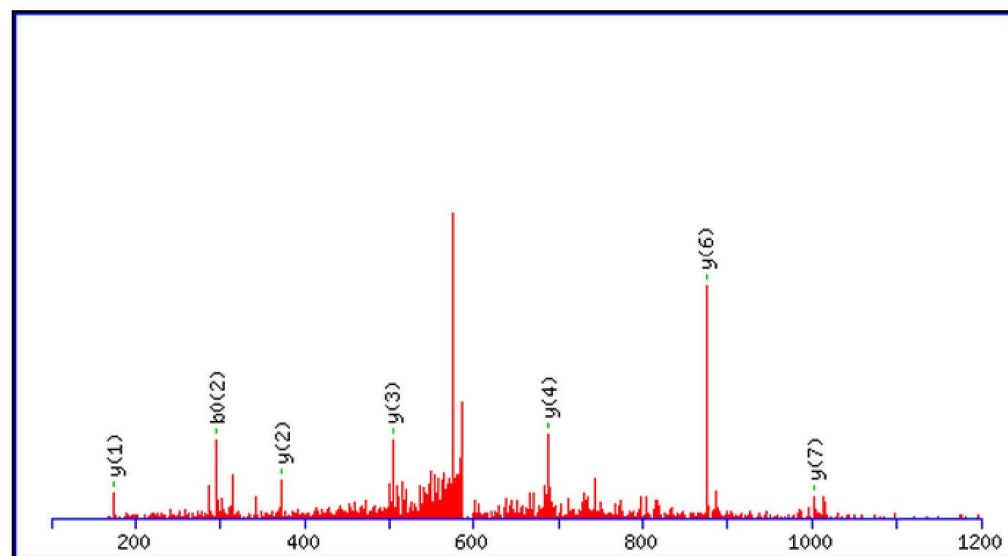
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	185.0921	93.0497	168.0655	84.5364			N							13
2	272.1241	136.5657	255.0975	128.0524	254.1135	127.5604	S	1398.7812	699.8942	1381.7546	691.3810	1380.7706	690.8889	12
3	428.2252	214.6162	411.1987	206.1030	410.2146	205.6110	R	1311.7492	656.3782	1294.7226	647.8649	1293.7386	647.3729	11
4	485.2467	243.1270	468.2201	234.6137	467.2361	234.1217	G	1155.6480	578.3277	1138.6215	569.8144	1137.6375	569.3224	10
5	614.2893	307.6483	597.2627	299.1350	596.2787	298.6430	E	1098.6266	549.8169	1081.6000	541.3037	1080.6160	540.8116	9
6	727.3733	364.1903	710.3468	355.6770	709.3628	355.1850	L	969.5840	485.2956	952.5574	476.7824			8
7	826.4417	413.7245	809.4152	405.2112	808.4312	404.7192	V	856.4999	428.7536	839.4734	420.2403			7
8	883.4632	442.2352	866.4367	433.7220	865.4526	433.2300	G	757.4315	379.2194	740.4050	370.7061			6
9	982.5316	491.7694	965.5051	483.2562	964.5211	482.7642	V	700.4100	350.7087	683.3835	342.1954			5
10	1096.5745	548.7909	1079.5480	540.2776	1078.5640	539.7856	N	601.3416	301.1745	584.3151	292.6612			4
11	1210.6175	605.8124	1193.5909	597.2991	1192.6069	596.8071	N	487.2987	244.1530	470.2722	235.6397			3
12	1408.7543	704.8808	1391.7278	696.3675	1390.7437	695.8755	K	373.2558	187.1315	356.2292	178.6183			2
13							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 6904: 1186.636448 from(594.325500,2+) intensity(50878.4375) rtinseconds(1488) scans(8592) index(7632)

Title: File1025 Spectrum7655 scans: 8592

Data file 2013-7-21-liver-Ca-Fr17,18-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring Show Y-axis 

Monoisotopic mass of neutral peptide Mr(calc): 1186.6380

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

Variable modifications:

K1 : Propionyl (K)

K5 : Propionyl (K)

K7 : Propionyl-Methyl (K)

Ions Score: 39 Expect: 1

Matches : 7/74 fragment :

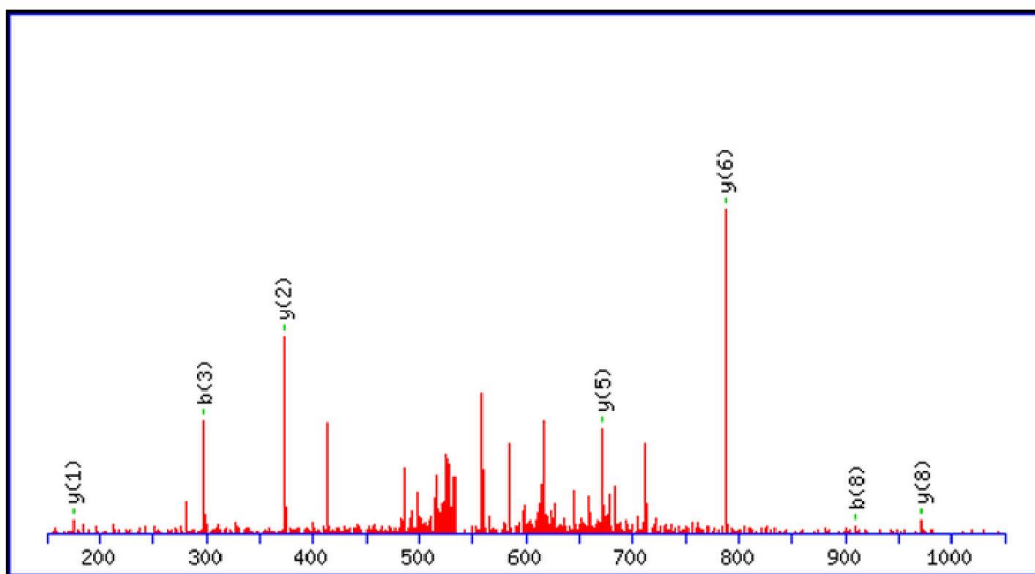
#	b	b ⁺⁺	b [*]	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							8
2	314.1710	157.5892	297.1445	149.0759	296.1605	148.5839	E	1003.5241	502.2657	986.4975	493.7524	985.5135	493.2604	7
3	371.1925	186.0999	354.1660	177.5866	353.1819	177.0946	G	874.4815	437.7444	857.4550	429.2311	856.4709	428.7391	6
4	500.2351	250.6212	483.2086	242.1079	482.2245	241.6159	E	817.4600	409.2337	800.4335	400.7204	799.4495	400.2284	5
5	684.3563	342.6818	667.3297	334.1685	666.3457	333.6765	K	688.4174	344.7124	671.3909	336.1991			4
6	815.3968	408.2020	798.3702	399.6887	797.3862	399.1967	M	504.2963	252.6518	487.2697	244.1385			3
7	1013.5336	507.2704	996.5070	498.7572	995.5230	498.2652	K	373.2558	187.1315	356.2292	178.6183			2
8							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 4814: 1083.608368 from(542.811460,2+) intensity(212965.7344) rtinseconds(2398) scans(15090) index(13709)

Title: File1025 Spectrum13732 scans: 15090

Data file 2013-7-21-liver-Ca-Fr17,18-ZW.mgf

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

Or, 150 1050 Label all possible matches Label matches used for scoring Show Y-axis 

Monoisotopic mass of neutral peptide Mr(calc): 1083.6036

Fixed modifications: Carbamidomethyl (C)

Variable modifications:

K8 : Propionyl-Methylation (K)

Ions Score: 43 Expect: 0.017

Matches : 7/76 fragment ions using 9 mo:

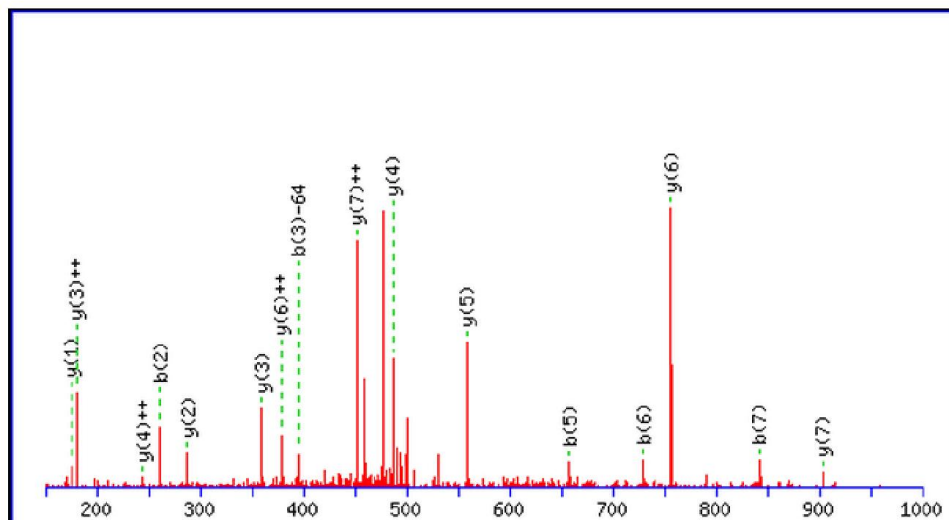
#	b	b ⁺⁺	b*	b ^{*++}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ^{*++}	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					L							9
2	201.1234	101.0653			183.1128	92.0600	S	971.5269	486.2671	954.5003	477.7538	953.5163	477.2618	8
3	298.1761	149.5917			280.1656	140.5864	P	884.4948	442.7511	867.4683	434.2378	866.4843	433.7458	7
4	413.2031	207.1052			395.1925	198.0999	D	787.4421	394.2247	770.4155	385.7114	769.4315	385.2194	6
5	527.2460	264.1266	510.2195	255.6134	509.2354	255.1214	N	672.4151	336.7112	655.3886	328.1979			5
6	584.2675	292.6374	567.2409	284.1241	566.2569	283.6321	G	558.3722	279.6897	541.3457	271.1765			4
7	712.3624	356.6849	695.3359	348.1716	694.3519	347.6796	K	501.3507	251.1790	484.3242	242.6657			3
8	910.4993	455.7533	893.4727	447.2400	892.4887	446.7480	K	373.2558	187.1315	356.2292	178.6183			2
9							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 2990: 1015.586708 from(508.800630,2+) intensity(289366.1875) rtinseconds(1549) scans(8352) index(7232)

Title: File1027 Spectrum7290 scans: 8352

Data file 2013-7-21-liver-Ca-Fr6-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring Show Y-axis Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1015.5848

Fixed modifications: Carbamidomethyl (C) (app)

Variable modifications:

M2 : Oxidation (M), with neutral losses 0

K3 : Propionyl-Methylation (K)

Ions Score: 55 Expect: 0.0025

Matches : 16/78 fragment ions using 25 most i

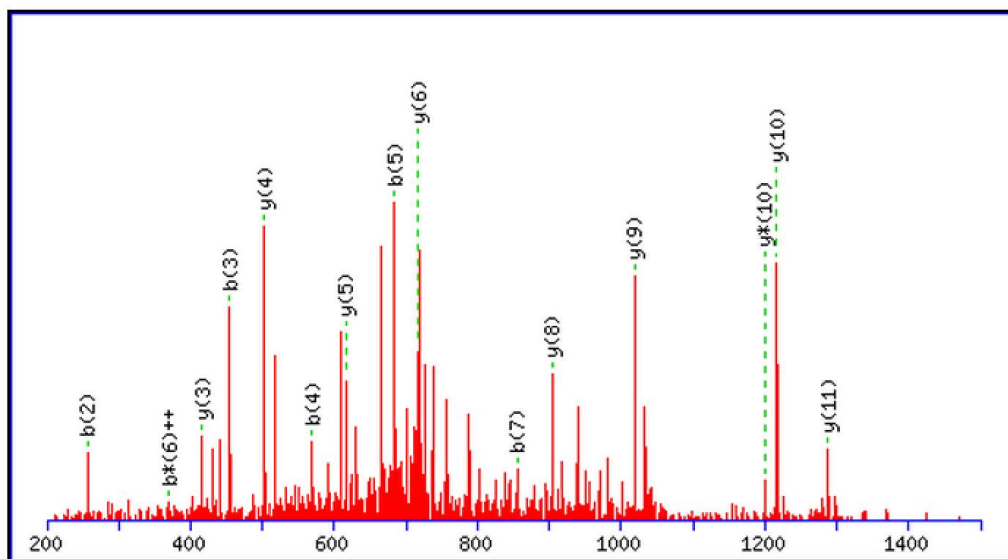
#	b	b ⁺⁺	b [*]	b ^{*++}	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
1	114.0913	57.5493			I					8
2	261.1267	131.0670			M	903.5081	452.2577	886.4815	443.7444	7
3	459.2636	230.1354	442.2370	221.6221	K	756.4727	378.7400	739.4461	370.2267	6
4	530.3007	265.6540	513.2741	257.1407	A	558.3358	279.6715	541.3093	271.1583	5
5	658.3593	329.6833	641.3327	321.1700	Q	487.2987	244.1530	470.2722	235.6397	4
6	729.3964	365.2018	712.3698	356.6886	A	359.2401	180.1237	342.2136	171.6104	3
7	842.4804	421.7439	825.4539	413.2306	L	288.2030	144.6051	271.1765	136.0919	2
8					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 10700: 1470.804908 from(736.409730,2+) intensity(58645.5586) rtinseconds(1749) scans(10412) index(9337)

Title: File971 Spectrum9371 scans: 10412

Data file 2013-7-21-liver-Ca-Fr1,2-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring Show Y-axis 

Monoisotopic mass of neutral peptide Mr(calc) = 1470.8049

Fixed modifications: Carbamidomethyl (C) (app

Variable modifications:

K1 : Propionyl (K)

K3 : Propionyl-Methylation (K)

K11 : Propionyl (K)

Ions Score: 35 Expect: 0.14

Matches : 15/120 fragment ions using 39 most

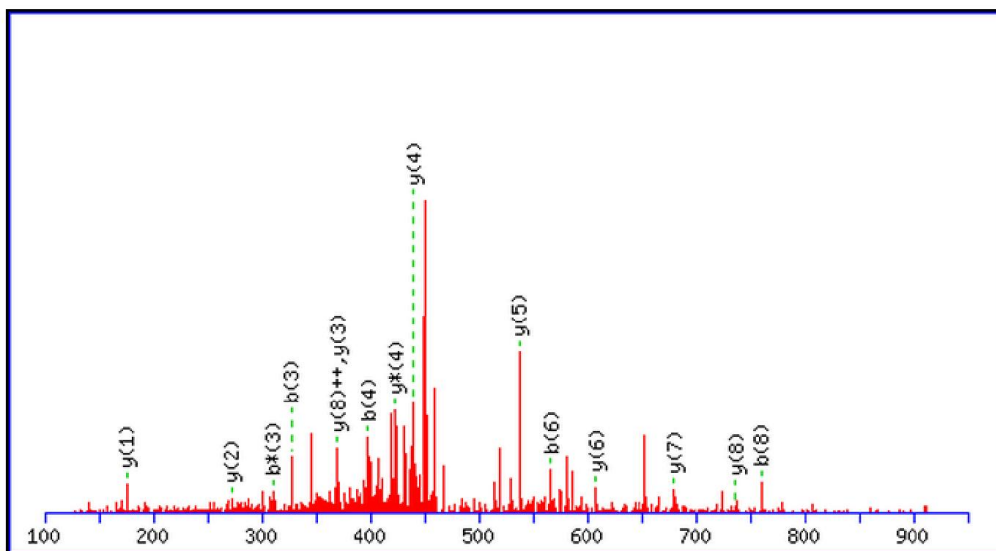
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	185.1285	93.0679	168.1019	84.5546			K							12
2	256.1656	128.5864	239.1390	120.0731			A	1287.6903	644.3488	1270.6638	635.8355	1269.6797	635.3435	11
3	454.3024	227.6548	437.2758	219.1416			K	1216.6532	608.8302	1199.6266	600.3170	1198.6426	599.8250	10
4	569.3293	285.1683	552.3028	276.6550	551.3188	276.1630	D	1018.5164	509.7618	1001.4898	501.2485	1000.5058	500.7565	9
5	684.3563	342.6818	667.3297	334.1685	666.3457	333.6765	D	903.4894	452.2483	886.4629	443.7351	885.4789	443.2431	8
6	755.3934	378.2003	738.3668	369.6871	737.3828	369.1951	A	788.4625	394.7349	771.4359	386.2216	770.4519	385.7296	7
7	856.4411	428.7242	839.4145	420.2109	838.4305	419.7189	T	717.4254	359.2163	700.3988	350.7030	699.4148	350.2110	6
8	969.5251	485.2662	952.4986	476.7529	951.5146	476.2609	L	616.3777	308.6925	599.3511	300.1792	598.3671	299.6872	5
9	1056.5572	528.7822	1039.5306	520.2689	1038.5466	519.7769	S	503.2936	252.1504	486.2671	243.6372	485.2831	243.1452	4
10	1113.5786	557.2930	1096.5521	548.7797	1095.5681	548.2877	G	416.2616	208.6344	399.2350	200.1212			3
11	1297.6998	649.3535	1280.6733	640.8403	1279.6892	640.3483	K	359.2401	180.1237	342.2136	171.6104			2
12							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 2215: 933.539888 from(467.777220,2+) intensity(9739.5449) rtinseconds(905) scans(4506) index(3828)

Title: File971 Spectrum3837 scans: 4506

Data file 2013-7-21-liver-Ca-Fr1,2-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring Show Y-axis 

Monoisotopic mass of neutral peptide Mr(calc): 933.5396

Fixed modifications: Carbamidomethyl (C) (apply to speci

Variable modifications:

K1 : Propionyl-Methylation (K)

Ions Score: 35 Expect: 0.061

Matches : 15/64 fragment ions using 56 most intense peak

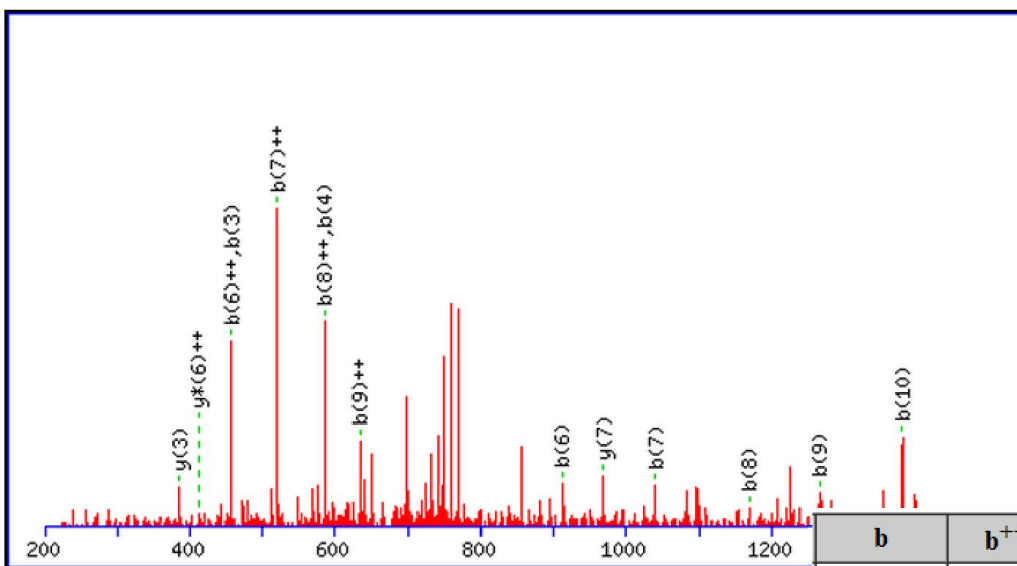
#	b	b ⁺⁺	b [*]	b ^{*++}	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
1	199.1441	100.0757	182.1176	91.5624	K					9
2	256.1656	128.5864	239.1390	120.0731	G	736.4101	368.7087	719.3835	360.1954	8
3	327.2027	164.1050	310.1761	155.5917	A	679.3886	340.1979	662.3620	331.6847	7
4	398.2398	199.6235	381.2132	191.1103	A	608.3515	304.6794	591.3249	296.1661	6
5	495.2926	248.1499	478.2660	239.6366	P	537.3144	269.1608	520.2878	260.6475	5
6	566.3297	283.6685	549.3031	275.1552	A	440.2616	220.6344	423.2350	212.1212	4
7	663.3824	332.1949	646.3559	323.6816	P	369.2245	185.1159	352.1979	176.6026	3
8	760.4352	380.7212	743.4087	372.2080	P	272.1717	136.5895	255.1452	128.0762	2
9					R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 13350: 1552.856048 from(777.435300,2+) intensity(227217.9063) rtinseconds(1951) scans(10753) index(9516)

Title: File994 Spectrum9545 scans: 10753

Data file 2013-7-18-liver-Ca-Fr3,4-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Show Y-axis 

Monoisotopic mass of neutral peptide Mr(calc): 1552.846

Fixed modifications: Carbamidomethyl (C) (apply to spec)

Variable modifications:

K3 : Propionyl-Methylation (K)

K6 : Propionyl-Methylation (K)

Ions Score: 37 Expect: 0.073

Matches : 14/120 fragment ions using 25 most intense pe

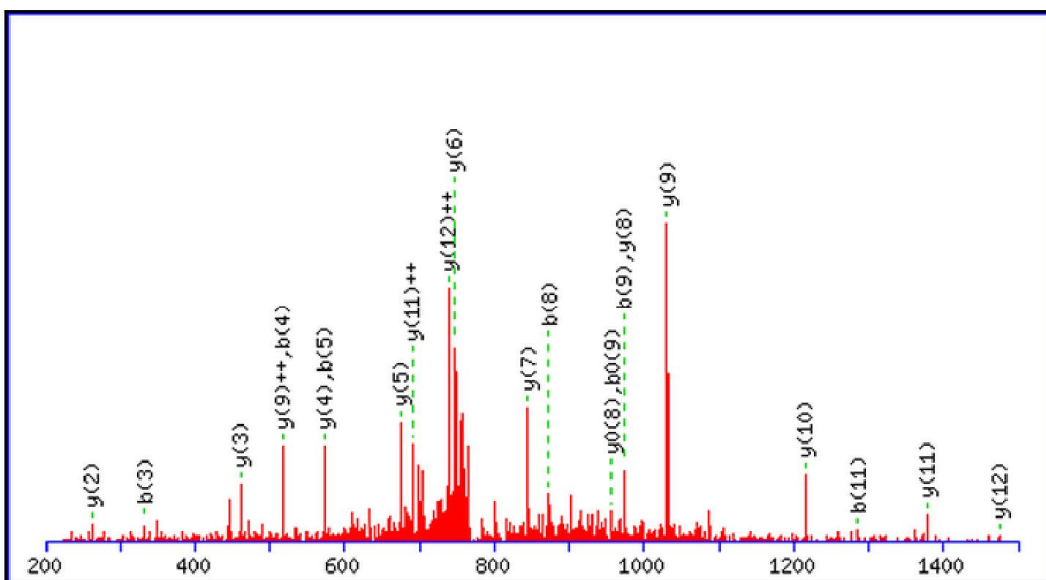
b	b ⁺⁺	b [*]	b ^{*++}	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
129.1022	65.0548	112.0757	56.5415	K					11
258.1448	129.5761	241.1183	121.0628	E	1425.7584	713.3828	1408.7318	704.8696	10
456.2817	228.6445	439.2551	220.1312	K	1296.7158	648.8615	1279.6892	640.3483	9
585.3243	293.1658	568.2977	284.6525	E	1098.5790	549.7931	1081.5524	541.2798	8
713.3828	357.1951	696.3563	348.6818	Q	969.5364	485.2718	952.5098	476.7585	7
911.5197	456.2635	894.4931	447.7502	K	841.4778	421.2425	824.4512	412.7293	6
1040.5623	520.7848	1023.5357	512.2715	E	643.3410	322.1741	626.3144	313.6608	5
1169.6048	585.3061	1152.5783	576.7928	E	514.2984	257.6528	497.2718	249.1395	4
1266.6576	633.8324	1249.6311	625.3192	P	385.2558	193.1315	368.2292	184.6183	3
1379.7417	690.3745	1362.7151	681.8612	L	288.2030	144.6051	271.1765	136.0919	2
				R	175.1190	88.0631	158.0924	79.5498	1

Match to Query 9695: 1545.856668 from(773.935610,2+) intensity(142534.7344) rtinseconds(2385) scans(13179) index(11610)

Title: File1038 Spectrum11670 scans: 13179

Data file 2013-7-19-Liver Ca-Fr13,14-ZW.mgf

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

Or, 200 to Da Label all possible matches Label matches used for scoring Show Y-axis 

Monoisotopic mass of neutral peptide Mr(calc): 1545.856668

Fixed modifications: Carbamidomethyl (C) (apply to all)

Variable modifications:

K4 : Propionyl (K)

K11 : Propionyl-Methylation (K)

Ions Score: 93 Expect: 2e-007

Matches : 22/126 fragment ions using 26 most interesting

#	b	b ⁺⁺	b [*]	b ^{***}	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ^{***}	y ⁰	y ⁰⁺⁺	#
1	72.0444	36.5258					A							13
2	169.0972	85.0522					P	1474.8264	737.9168	1457.7999	729.4036	1456.8158	728.9116	12
3	332.1605	166.5839					Y	1377.7736	689.3905	1360.7471	680.8772	1359.7631	680.3852	11
4	516.2817	258.6445	499.2551	250.1312			K	1214.7103	607.8588	1197.6838	599.3455	1196.6997	598.8535	10
5	573.3031	287.1552	556.2766	278.6419			G	1030.5891	515.7982	1013.5626	507.2849	1012.5786	506.7929	9
6	702.3457	351.6765	685.3192	343.1632	684.3352	342.6712	E	973.5677	487.2875	956.5411	478.7742	955.5571	478.2822	8
7	801.4141	401.2107	784.3876	392.6974	783.4036	392.2054	V	844.5251	422.7662	827.4985	414.2529	826.5145	413.7609	7
8	872.4512	436.7293	855.4247	428.2160	854.4407	427.7240	A	745.4567	373.2320	728.4301	364.7187	727.4461	364.2267	6
9	973.4989	487.2531	956.4724	478.7398	955.4884	478.2478	T	674.4196	337.7134	657.3930	329.2001	656.4090	328.7081	5
10	1086.5830	543.7951	1069.5564	535.2819	1068.5724	534.7899	L	573.3719	287.1896	556.3453	278.6763	555.3613	278.1843	4
11	1284.7198	642.8635	1267.6933	634.3503	1266.7093	633.8583	K	460.2878	230.6475	443.2613	222.1343	442.2772	221.6423	3
12	1371.7518	686.3796	1354.7253	677.8663	1353.7413	677.3743	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
13							R	175.1190	88.0631	158.0924	79.5498			1

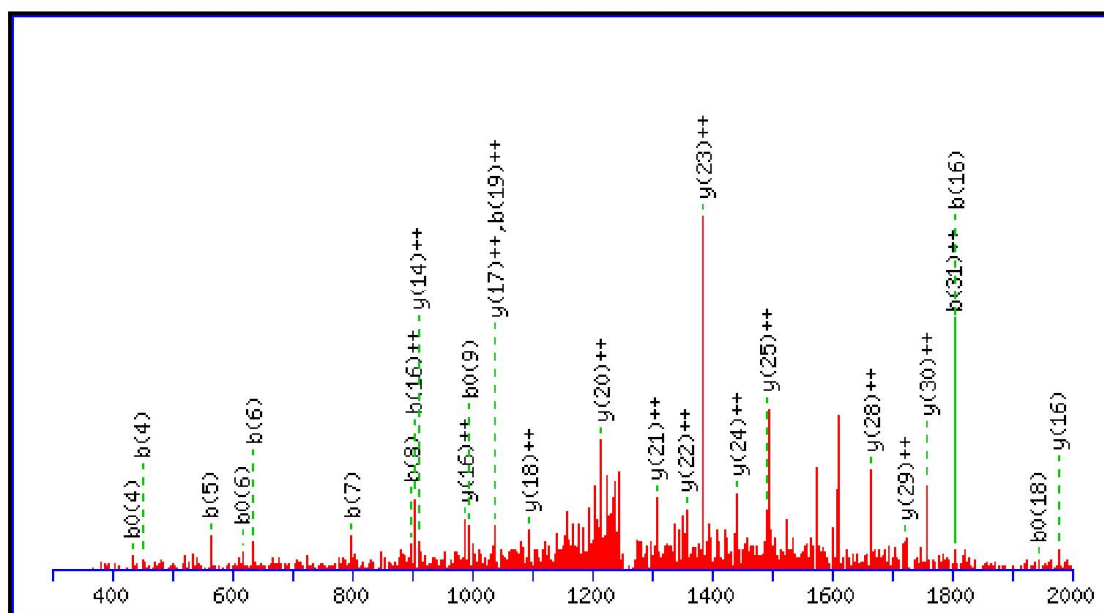
Found in **Q5VTE0**, Putative elongation factor 1-alpha-like 3 OS=Homo sapiens GN=EEF1A1P5 PE=5 SV=1

Match to Query 15877: 3782.031882 from(1261.684570,3+) intensity(129542.4141)

Title: File1271 Spectrum13903 scans: 16460

Data file I:\2013-9-5-Hela-Prometh-Fr20-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 3781.0124

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

Variable modifications:

K12 : Propionyl (K)

K20 : Propionyl-Methylation (K)

K31 : Propionyl-Methylation (K)

Ions Score: 55 Expect: 0.0034

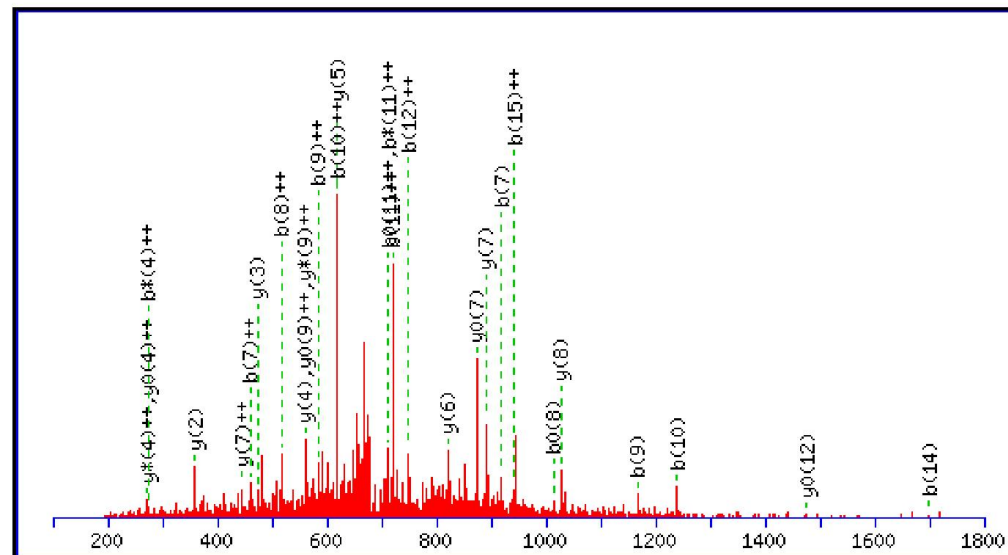
Matches : 27/344 fragment ions using 51 most intense peaks ([help](#))

Match to Query 14176: 2057.146152 from(686.722660,3+) intensity(30272.7520)

Title: File1264 Spectrum11284 scans: 13069

Data file I:\2013-9-5-Hela-Prometh-Fr13-ZW.mgf

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

Or, 100 to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 2057.1484

Fixed modifications: Carbamidomethyl (C) (apply to specified residue)

Variable modifications:

K4 : Propionyl (K)

M9 : Label:13C(1)2H(3) (M)

K11 : Propionyl-(13CD3)Methyl (K)

K15 : Propionyl (K)

Ions Score: 23 Expect: 4.6

Matches : 29/170 fragment ions using 61 most intense peaks [\(help\)](#)

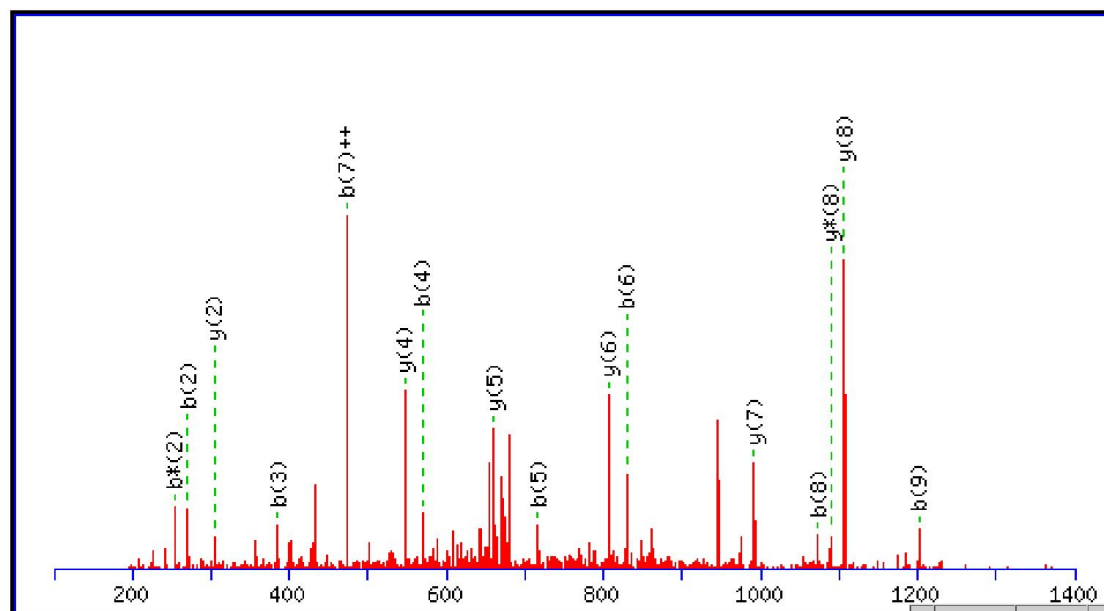
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	E							16
2	267.1088	134.0580			249.0982	125.0527	H	1929.1131	965.0602	1912.0866	956.5469	1911.1026	956.0549	15
3	380.1928	190.6001			362.1823	181.5948	I	1792.0542	896.5308	1775.0277	888.0175	1774.0437	887.5255	14
4	564.3140	282.6606	547.2875	274.1474	546.3035	273.6554	K	1678.9702	839.9887	1661.9436	831.4755	1660.9596	830.9834	13
5	663.3824	332.1949	646.3559	323.6816	645.3719	323.1896	V	1494.8490	747.9281	1477.8224	739.4149	1476.8384	738.9229	12
6	791.4410	396.2241	774.4145	387.7109	773.4304	387.2189	Q	1395.7806	698.3939	1378.7540	689.8807	1377.7700	689.3886	11
7	919.4996	460.2534	902.4730	451.7402	901.4890	451.2482	Q	1267.7220	634.3646	1250.6955	625.8514	1249.7114	625.3594	10
8	1032.5837	516.7955	1015.5571	508.2822	1014.5731	507.7902	L	1139.6634	570.3354	1122.6369	561.8221	1121.6529	561.3301	9
9	1167.6463	584.3268	1150.6198	575.8135	1149.6358	575.3215	M	1026.5794	513.7933	1009.5528	505.2800	1008.5688	504.7880	8
10	1238.6834	619.8454	1221.6569	611.3321	1220.6729	610.8401	A	891.5167	446.2620	874.4901	437.7487	873.5061	437.2567	7
11	1440.8425	720.9249	1423.8159	712.4116	1422.8319	711.9196	K	820.4796	410.7434	803.4530	402.2302	802.4690	401.7381	6
12	1497.8639	749.4356	1480.8374	740.9223	1479.8534	740.4303	G	618.3206	309.6639	601.2940	301.1506	600.3100	300.6586	5
13	1584.8959	792.9516	1567.8694	784.4383	1566.8854	783.9463	S	561.2991	281.1532	544.2726	272.6399	543.2885	272.1479	4
14	1699.9229	850.4651	1682.8963	841.9518	1681.9123	841.4598	D	474.2671	237.6372	457.2405	229.1239	456.2565	228.6319	3
15	1884.0441	942.5257	1867.0175	934.0124	1866.0335	933.5204	K	359.2401	180.1237	342.2136	171.6104			2
16							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 4633: 1374.713848 from(688.364200,2+) intensity(349942.2500)

Title: File1332 Spectrum10994 scans: 12239

Data file I:\2013-9-14-Hela-Prometh-Fr10-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc) : 1374.7143

Fixed modifications: Carbamidomethyl (C) (apply to speci

Variable modifications:

K2 : Propionyl-Methylation (K)

K4 : Propionyl (K)

Ions Score: 47 Expect: 0.012

Matches : 16/100 fragment ions using 24 most intense pea

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	720.144	36.5258					A							10
2	270.1812	135.5942	253.1547	127.0810			K	1304.6845	652.8459	1287.6579	644.3326	1286.6739	643.8406	9
3	385.2082	193.1077	368.1816	184.5944	367.1976	184.1024	D	1106.5477	553.7775	1089.5211	545.2642	1088.5371	544.7722	8
4	569.3293	285.1683	552.3028	276.6550	551.3188	276.1630	K	991.5207	496.2640	974.4942	487.7507	973.5102	487.2587	7
5	716.3978	358.7025	699.3712	350.1892	698.3872	349.6972	F	807.3995	404.2034	790.3730	395.6901	789.3890	395.1981	6
6	829.4818	415.2445	812.4553	406.7313	811.4713	406.2393	L	660.3311	330.6692	643.3046	322.1559	642.3206	321.6639	5
7	944.5088	472.7580	927.4822	464.2447	926.4982	463.7527	D	547.2471	274.1272	530.2205	265.6139	529.2365	265.1219	4
8	1072.5673	536.7873	1055.5408	528.2740	1054.5568	527.7820	Q	432.2201	216.6137	415.1936	208.1004	414.2096	207.6084	3
9	1201.6099	601.3086	1184.5834	592.7953	1183.5994	592.3033	E	304.1615	152.5844	287.1350	144.0711	286.1510	143.5791	2
10							R	175.1190	88.0631	158.0924	79.5498			1

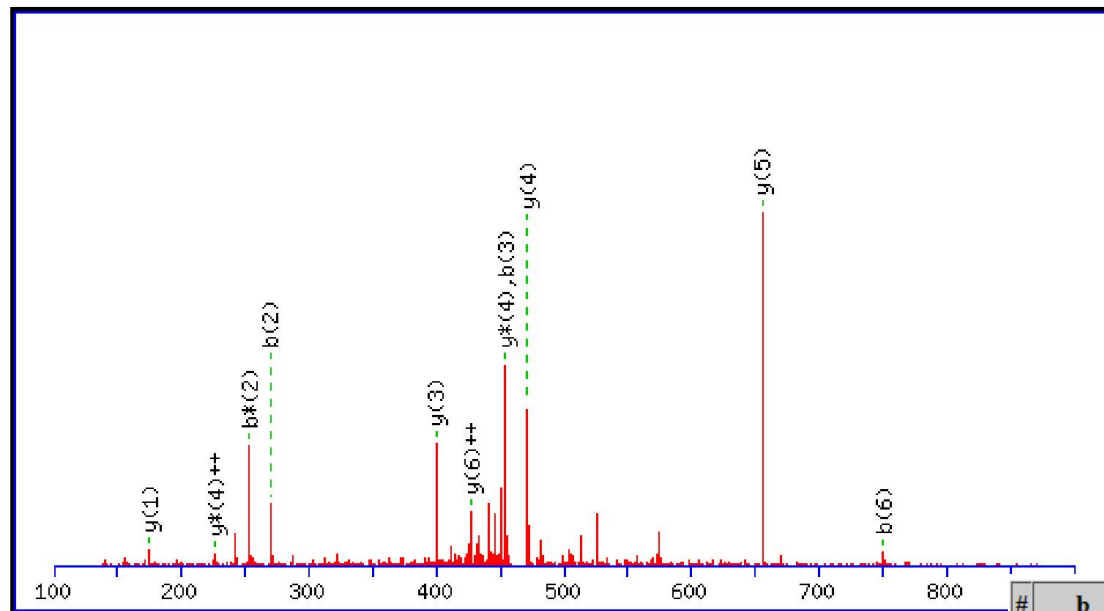
Found in **A6PW79**, Cyclic GMP-AMP synthase OS=Homo sapiens GN=MB21D1 PE=2 SV=1

Match to Query 1841: 923.556128 from(462.785340,2+) intensity(1239225.8750)

Title: File1335 Spectrum3633 scans: 4254

Data file I:\2013-9-14-Hela-Prometh-Fr8-ZW.mgf

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

Or, Plot from to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 923.5552

Fixed modifications: Carbamidomethyl (C) (apply to specified residues)

Variable modifications:

K2 : Propionyl-Methylation (K)

K3 : Propionyl (K)

Ions Score: 23 Expect: 1.4

Matches : 11/46 fragment ions using 16 most intense peaks (highlighted in table)

#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	#
1	72.0444	36.5258			A					7
2	70.1812	135.5942	253.1547	127.0810	K	853.5254	427.2663	836.4989	418.7531	6
3	454.3024	227.6548	437.2758	219.1416	K	655.3886	328.1979	638.3620	319.6847	5
4	525.3395	263.1734	508.3130	254.6601	A	471.2674	236.1373	454.2409	227.6241	4
5	622.3923	311.6998	605.3657	303.1865	P	400.2303	200.6188	383.2037	192.1055	3
6	750.4509	375.7291	733.4243	367.2158	Q	303.1775	152.0924	286.1510	143.5791	2
7					R	175.1190	88.0631	158.0924	79.5498	1

Found in **HOYG16**, Kinesin light chain 1 (Fragment) OS=Homo sapiens GN=KLC1 PE=4 SV=1

Match to Query 8214: 1405.740568 from(703.877560, 2+) intensity(40945.4180)

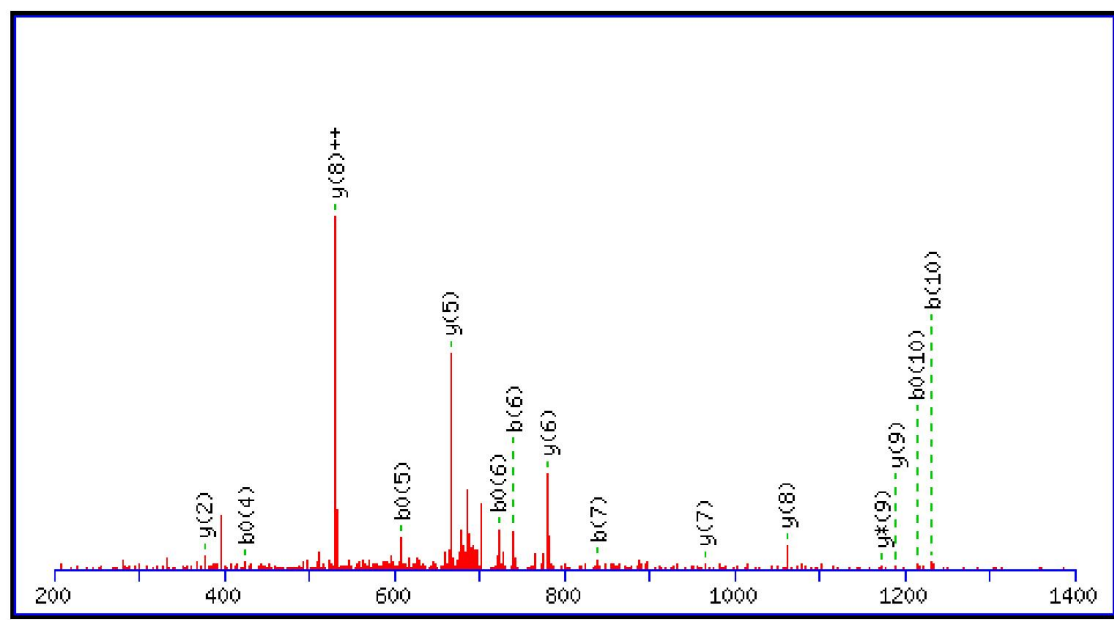
Title: File2136 Spectrum6068 scans: 7077

Data file I:\2013-12-03-SIMM7721-PR1-10-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 1405.7416

Fixed modifications: Carbamidomethyl (C) (apply to specific...)

Variable modifications:

- K5** : Propionyl (K)
- M9** : Label:13C(1)2H(3) (M)
- K10** : Propionyl-(13CD3)Methyl (K)

Ions Score: 26 Expect: 1.1

Matches : 15/96 fragment ions using 36 most intense peaks

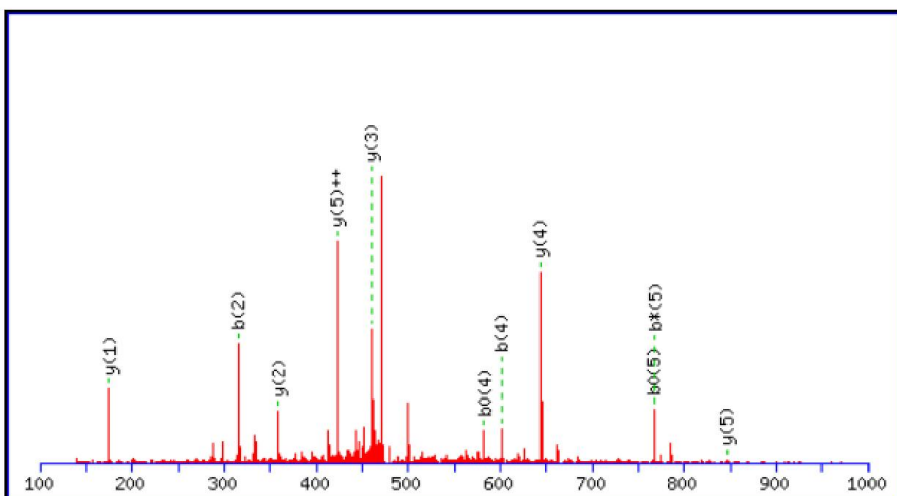
#	b	b ⁺⁺	b*	b* ⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y* ⁺⁺	y ⁰	y ⁰⁺⁺	#
1	130.0499	65.5286			112.0393	56.5233	E							11
2	217.0819	109.0446			199.0713	100.0393	S	1277.7064	639.3568	1260.6798	630.3435	1259.6958	630.3515	10
3	346.1245	173.5659			328.1139	164.5606	E	1190.6743	595.8408	1173.6478	587.3275	1172.6638	586.8355	9
4	443.1773	222.0923			425.1667	213.0870	P	1061.6317	531.3195	1044.6052	522.8062			8
5	627.2984	314.1529	610.2719	305.6396	609.2879	305.1476	K	964.5790	482.7931	947.5524	474.2798			7
6	741.3414	371.1743	724.3148	362.6610	723.3308	362.1690	N	780.4578	390.7325	763.4312	382.2193			6
7	838.3941	419.7007	821.3676	411.1874	820.3836	410.6954	P	666.4149	333.7111	649.3883	325.1978			5
8	895.4156	448.2114	878.3890	439.6982	877.4050	439.2061	G	569.3621	285.1847	552.3356	276.6714			4
9	1030.4783	515.7428	1013.4517	507.2295	1012.4677	506.7375	N	512.3406	256.6740	495.3141	248.1607			3
10	1232.6373	616.8223	1215.6107	608.3090	1214.6267	607.8170	K	377.2780	189.1426	360.2514	180.6293			2
11							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 2116: 958.607888 from(480.311220,2+) intensity(122317.9688)

Title: File2044 Spectrum8587 scans: 9583

Data file I:\2013-12-03-SIMM7721-FR8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 958.6084

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

Variable modifications:

N-term : Propionyl (protein N-term) (Protein N-term)

K2 : Propionyl-(13CD3)Methyl (K)

K3 : Propionyl (K)

K5 : Propionyl (K)

Ions Score: 37 Expect: 0.033

Matches : 11/48 fragment ions using 16 most intense peaks ([help](#))

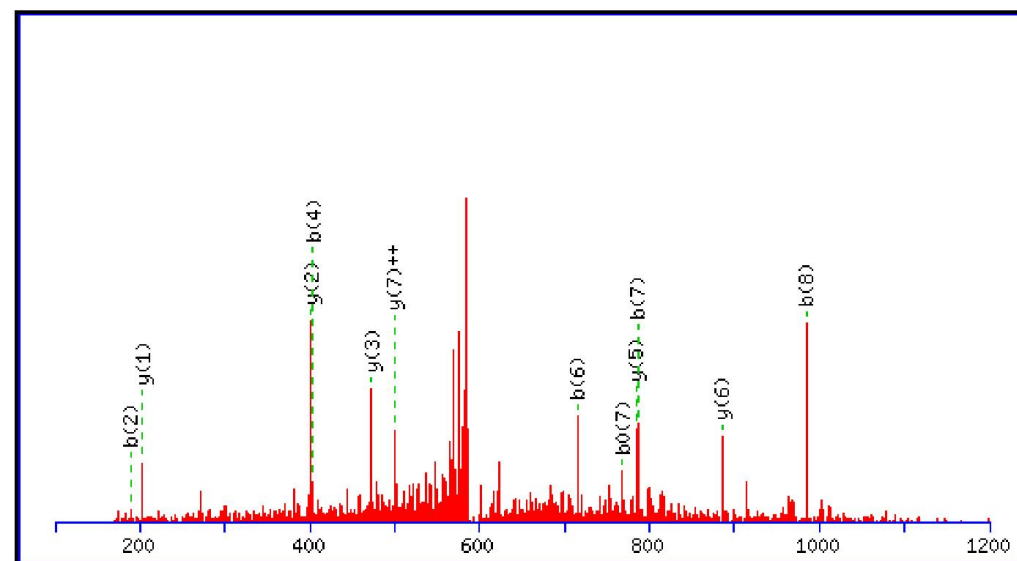
#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0550	57.5311					G							6
2	316.2140	158.6106	299.1874	150.0973			K	846.5680	423.7876	829.5415	415.2744	828.5574	414.7824	5
3	500.3351	250.6712	483.3086	242.1579			K	644.4090	322.7081	627.3824	314.1949	626.3984	313.7028	4
4	601.3828	301.1951	584.3563	292.6818	583.3723	292.1898	T	460.2878	230.6475	443.2613	222.1343	442.2772	221.6423	3
5	785.5040	393.2556	768.4775	384.7424	767.4934	384.2504	K	359.2407	180.1237	342.2136	171.6104			2
6							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 4149: 1185.678568 from(593.846560,2+) intensity(237169.2656)

Title: File1319 Spectrum12309 scans: 13093

Data file I:\2013-9-13-Hela-Prometh-Fr2-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1185.6791

Fixed modifications: Carbamidomethyl (C) (apply to specified residues)

Variable modifications:

K5 : Propionyl (K)

K8 : Propionyl-Methylation (K)

K9 : Propionyl (K)

Ions Score: 35 Expect: 0.23

Matches : 12/72 fragment ions using 20 most intense peaks [\(help\)](#)

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							9
2	189.0692	95.0383					M	1129.6649	565.3361	1112.6384	556.8228	1111.6544	556.3308	8
3	302.1533	151.5803					I	998.6245	499.8159	981.5979	491.3026	980.6139	490.8106	7
4	403.2010	202.1041			385.1904	193.0988	T	885.5404	443.2738	868.5138	434.7606	867.5298	434.2686	6
5	587.3221	294.1647	570.2956	285.6514	569.3116	285.1594	K	784.4927	392.7500	767.4662	384.2367			5
6	715.3807	358.1940	698.3542	349.6807	697.3702	349.1887	Q	600.3715	300.6894	583.3450	292.1761			4
7	786.4178	393.7126	769.3913	385.1993	768.4073	384.7073	A	472.3130	236.6601	455.2864	228.1468			3
8	984.5547	492.7810	967.5281	484.2677	966.5441	483.7757	K	401.2758	201.1416	384.2493	192.6283			2
9							K	203.1390	102.0731	186.1125	93.5599			1

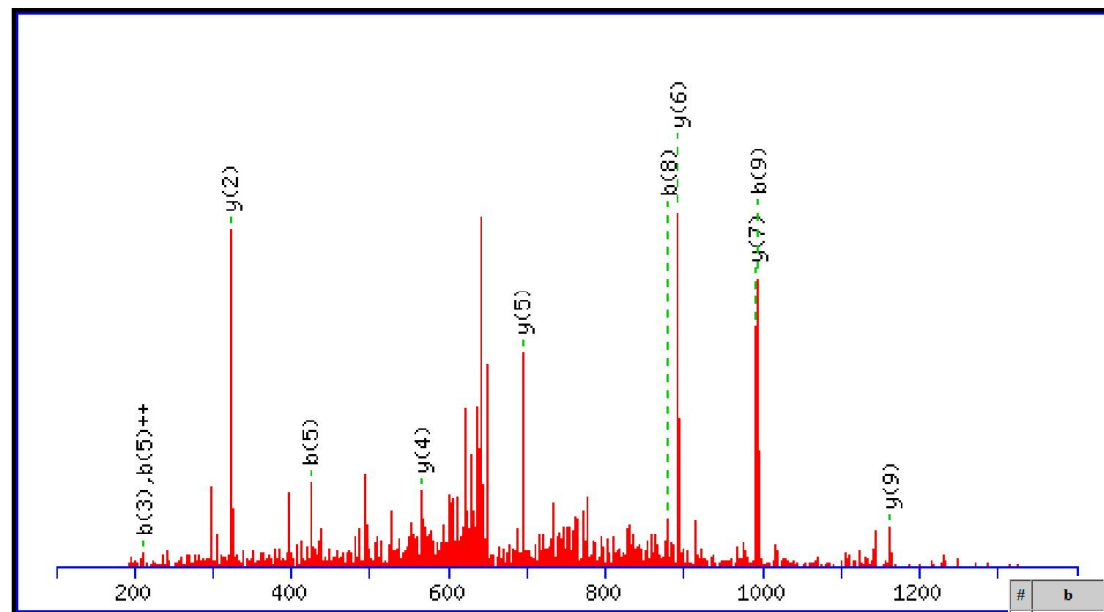
Found in **H0YIQ2**, YLP motif-containing protein 1 (Fragment) OS=Homo sapiens GN=YLPM1 PE=2 SV=1

Match to Query 4068: 1314.692968 from(658.353760,2+) intensity(82092.8750)

Title: File1332 Spectrum10706 scans: 11939

Data file I:\2013-9-14-Hela-Prometh-Fr10-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1314.6932

Fixed modifications: Carbamidomethyl (C) (apply to specified r

Variable modifications:

K6 : Propionyl-Methylation (K)

Ions Score: 36 Expect: 0.15

Matches : 11/92 fragment ions using 22 most intense peaks

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	58.0287	29.5180					G							11
2	155.0815	78.0444					P	1258.6790	629.8431	1241.6525	621.3299	1240.6684	620.8379	10
3	212.1030	106.5551					G	1161.6263	581.3168	1144.5997	572.8035	1143.6157	572.3115	9
4	325.1870	163.0972					L	1104.6048	552.8060	1087.5782	544.2928	1086.5942	543.8007	8
5	424.2554	212.6314					V	991.5207	496.2640	974.4942	487.7507	973.5102	487.2587	7
6	622.3923	311.6998	605.3657	303.1865			K	892.4523	446.7298	875.4258	438.2165	874.4417	437.7245	6
7	750.4509	375.7291	733.4243	367.2158			Q	694.3155	347.6614	677.2889	339.1481	676.3049	338.6561	5
8	879.4934	440.2504	862.4669	431.7371	861.4829	431.2451	E	566.2569	283.6321	549.2304	275.1188	548.2463	274.6268	4
9	994.5204	497.7638	977.4938	489.2506	976.5098	488.7585	D	437.2143	219.1108	420.1878	210.5975	419.2037	210.1055	3
10	1141.5888	571.2980	1124.5623	562.7848	1123.5782	562.2928	F	322.1874	161.5973	305.1608	153.0840			2
11							R	175.1190	88.0631	158.0924	79.5498			1

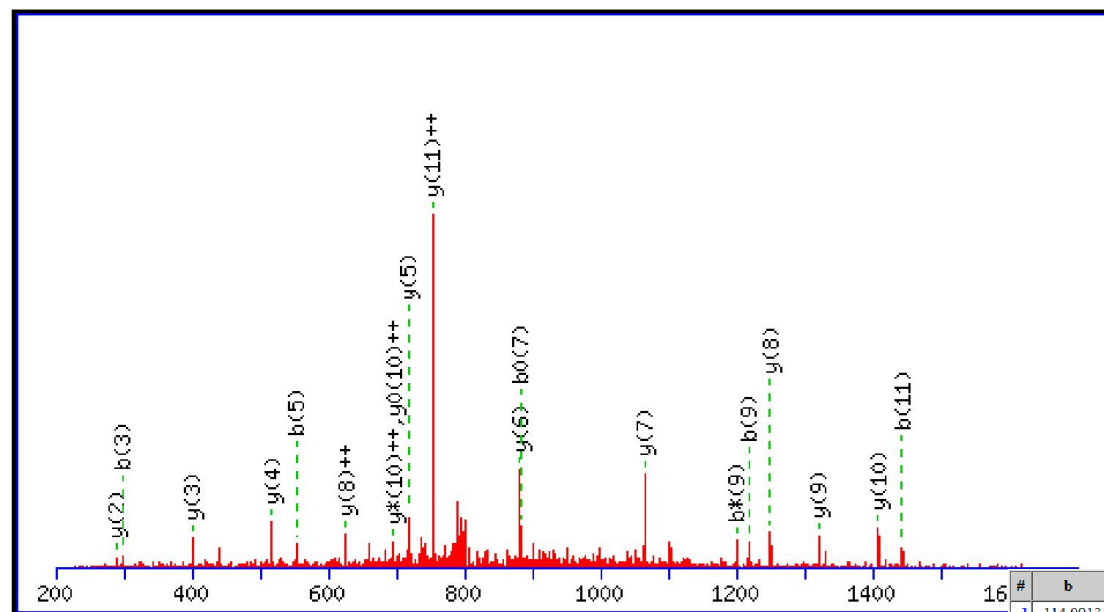
Found in **BLAKZ3**, Astrocytic phosphoprotein PEA-15 OS=Homo sapiens GN=PEA15 PE=2 SV=1

Match to Query 6766: 1616.978728 from(809.496640,2+) intensity(103500.7734)

Title: File1296 Spectrum11928 scans: 13586

Data file I:\2013-9-12-Hela-Prometh-Fr14-ZW.mgf

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

Or, 200 1700 Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1616.9774

Fixed modifications: Carbamidomethyl (C) (apply to specified r

Variable modifications:

K5 : Propionyl (K)

K6 : Propionyl (K)

K8 : Propionyl-(13CD3)Methyl (K)

Ions Score: 65 Expect: 9.8e-005

Matches : 19/114 fragment ions using 28 most intense peaks

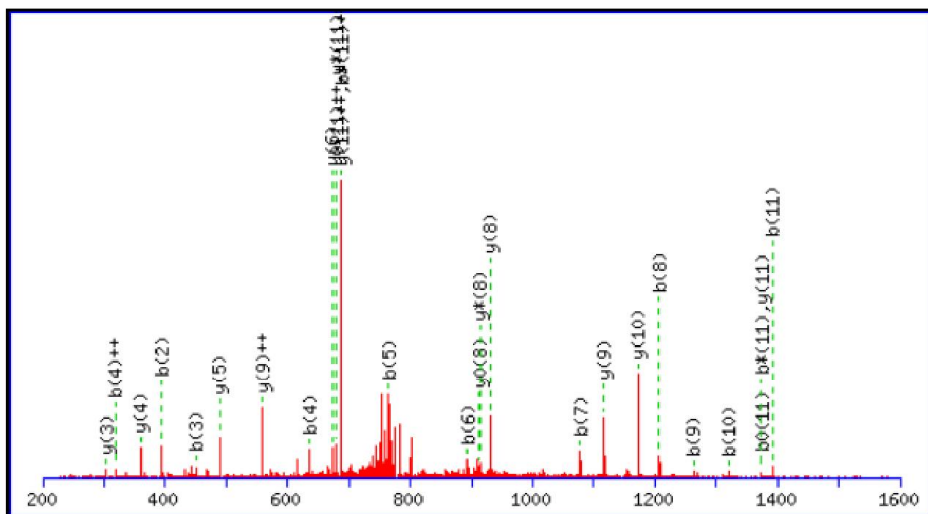
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	114.0913	57.5493					I							12
2	211.1441	106.0757					P	1504.9006	752.9540	1487.8741	744.4407	1486.8901	743.9487	11
3	298.1761	149.5917			280.1656	140.5864	S	1407.8479	704.4276	1390.8213	695.9143	1389.8373	695.4223	10
4	369.2132	185.1103			351.2027	176.1050	A	1320.8158	660.9116	1303.7893	652.3983	1302.8053	651.9063	9
5	553.3344	277.1709	536.3079	268.6576	535.3239	268.1656	K	1249.7787	625.3930	1232.7522	616.8797	1231.7682	616.3877	8
6	737.4556	369.2314	720.4291	360.7182	719.4450	360.2262	K	1065.6575	533.3324	1048.6310	524.8191	1047.6470	524.3271	7
7	900.5189	450.7631	883.4924	442.2498	882.5084	441.7578	Y	881.5364	441.2718	864.5098	432.7585	863.5258	432.2665	6
8	1102.6779	551.8426	1085.6514	543.3293	1084.6674	542.8373	K	718.4730	359.7402	701.4465	351.2269	700.4625	350.7349	5
9	1217.7049	609.3561	1200.6783	600.8428	1199.6943	600.3508	D	516.3140	258.6606	499.2875	250.1474	498.3035	249.6554	4
10	1330.7890	665.8981	1313.7624	657.3848	1312.7784	656.8928	I	401.2871	201.1472	384.2605	192.6339			3
11	1443.8730	722.4401	1426.8465	713.9269	1425.8624	713.4349	I	288.2030	144.6051	271.1765	136.0919			2
12							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query Y1097: 1564.830428 from(783.422490,2+) intensity(154179.9531)

Title: File2112 Spectrum11368 scans: 12633

Data file I:\2013-12-03-SIMM7721-FR1-2-ZW.mgf

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

Or, 200 1600 Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1564.8312

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

Variable modifications:

N-term : Propionyl (protein N-term) (Protein N-term)

M1 : Label:13C(1)2H(3) (M)

K2 : Propionyl-(13CD3)Methyl (K)

K4 : Propionyl (K)

K7 : Propionyl (K)

Ions Score: 52 Expect: 0.0032

Matches : 28/114 fragment ions using 53 most intense peaks [\(help\)](#)

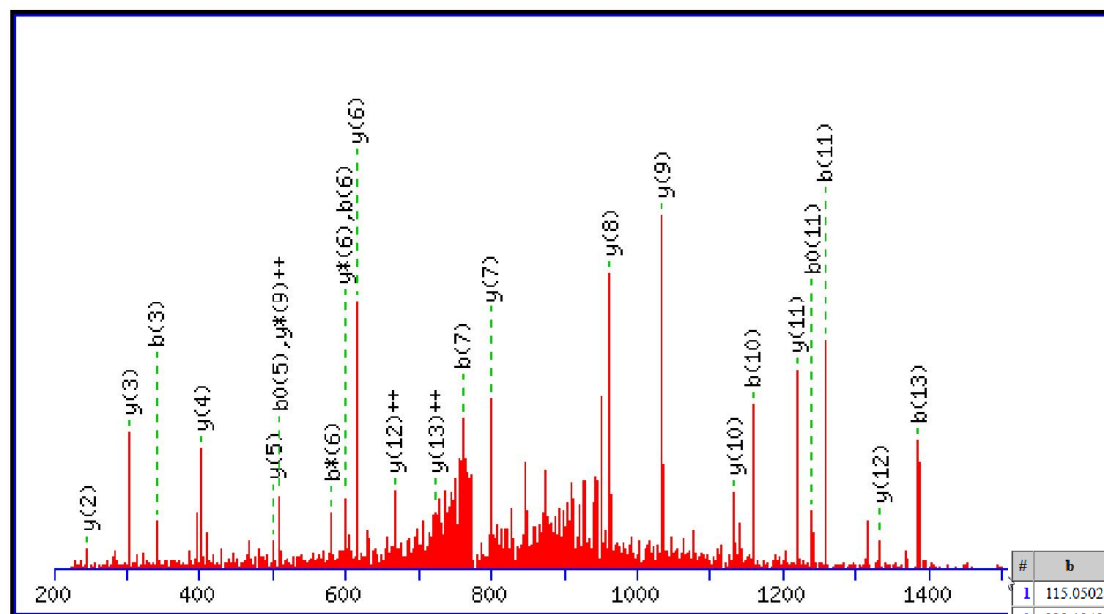
#	b	b ⁺⁺	b [*]	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	192.0962	96.5517					M							12
2	394.2552	197.6312	377.2286	189.1180			K	1374.7496	687.8784	1357.7231	679.3652	1356.7390	678.8732	11
3	451.2766	226.1420	434.2501	217.6287			G	1172.5906	586.7989	1155.5640	578.2857	1154.5800	577.7937	10
4	635.3978	318.2025	618.3713	309.6893			K	1115.5691	558.2882	1098.5426	549.7749	1097.5586	549.2829	9
5	764.4404	382.7238	747.4139	374.2106	746.4298	373.7186	E	931.4480	466.2276	914.4214	457.7143	913.4374	457.2223	8
6	893.4830	447.2451	876.4565	438.7319	875.4724	438.2399	E	802.4054	401.7063	785.3788	393.1930	784.3948	392.7010	7
7	1077.6042	539.3057	1060.5776	530.7925	1059.5936	530.3004	K	673.3628	337.1850	656.3362	328.6717	655.3522	328.1797	6
8	1206.6468	603.8270	1189.6202	595.3138	1188.6362	594.8217	E	489.2416	245.1244	472.2150	236.6112	471.2310	236.1191	5
9	1263.6682	632.3378	1246.6417	623.8245	1245.6577	623.3325	G	360.1990	180.6031	343.1724	172.0899			4
10	1320.6897	660.8485	1303.6632	652.3352	1302.6791	651.8432	G	303.1775	152.0924	286.1510	143.5791			3
11	1391.7268	696.3670	1374.7003	687.8538	1373.7162	687.3618	A	246.1561	123.5817	229.1295	115.0684			2
12							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 7434: 1558.883768 from(780.449160,2+) intensity(436528.8125)

Title: File1484 Spectrum14847 scans: 16385

Data file I:\2013-9-12-Hela-Prometh-Fr18-ZW.mgf

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

Or, 200 1600 Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1558.8831

Fixed modifications: Carbamidomethyl (C) (apply to specified re

Variable modifications:

K8 : Propionyl (K)

Ions Score: 70 Expect: 7.6e-005

Matches : 24/130 fragment ions using 41 most intense peaks

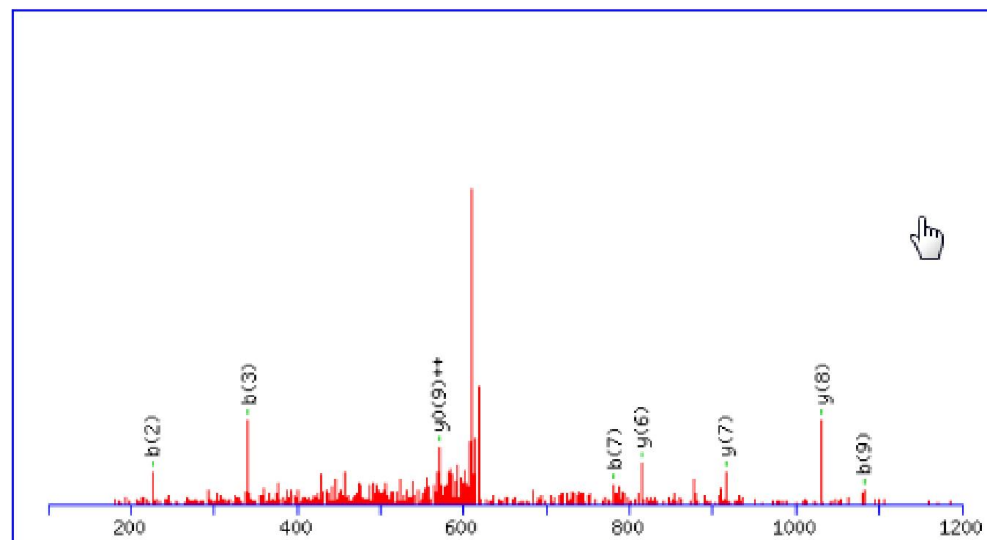
#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	115.0502	58.0287	98.0237	49.5155			N							14
2	228.1343	114.5708	211.1077	106.0575			L	1445.8475	723.4274	1428.8209	714.9141	1427.8369	714.4221	13
3	341.2183	171.1128	324.1918	162.5995			L	1332.7634	666.8853	1315.7369	658.3721	1314.7528	657.8801	12
4	428.2504	214.6288	411.2238	206.1155	410.2398	205.6235	S	1219.6793	610.3433	1202.6528	601.8300	1201.6688	601.3380	11
5	527.3188	264.1630	510.2922	255.6497	509.3082	255.1577	V	1132.6473	566.8273	1115.6208	558.3140			10
6	598.3559	299.6816	581.3293	291.1683	580.3453	290.6763	A	1033.5789	517.2931	1016.5524	508.7798			9
7	761.4192	381.2132	744.3927	372.7000	743.4087	372.2080	Y	962.5418	481.7745	945.5152	473.2613			8
8	945.5404	473.2738	928.5138	464.7606	927.5298	464.2686	K	799.4785	400.2429	782.4519	391.7296			7
9	1059.5833	530.2953	1042.5568	521.7820	1041.5728	521.2900	N	615.3573	308.1823	598.3307	299.6690			6
10	1158.6517	579.8295	1141.6252	571.3162	1140.6412	570.8242	V	501.3144	251.1608	484.2878	242.6475			5
11	1257.7201	629.3637	1240.6936	620.8504	1239.7096	620.3584	V	402.2459	201.6266	385.2194	193.1133			4
12	1314.7416	657.8744	1297.7151	649.3612	1296.7310	648.8692	G	303.1775	152.0924	286.1510	143.5791			3
13	1385.7787	693.3930	1368.7522	684.8797	1367.7682	684.3877	A	246.1561	123.5817	229.1295	115.0684			2
14							R	175.1190	88.0631	158.0924	79.5498			1

Match to Query 7071: 1254.719448 from(628.367000,2+) intensity(35620.6836)

Title: File320 Spectrum6206 scans: 7243

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\k562\2013-5-23-562-Kpropio-methyl-IP-Fr5-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 1254.7205

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

Variable modifications:

K5 : Propionyl (K)

K9 : Propionyl-(13CD3)Methyl (K)

Ions Score: 29 Expect: 0.47

Matches : 8/90 fragment ions using 11 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	98.0600	49.5337					P							10
2	226.1186	113.5629	209.0921	105.0497			Q	1158.6750	579.8411	1141.6484	571.3279	1140.6644	570.8358	9
3	341.1456	171.0764	324.1190	162.5631	323.1350	162.0711	D	1030.6164	515.8118	1013.5899	507.2986	1012.0058	506.8066	8
4	442.1932	221.6003	425.1667	213.0870	424.1827	212.5950	T	915.5895	458.2984	898.5629	449.7851	897.5789	449.2931	7
5	626.3144	313.6608	609.2879	305.1476	608.3039	304.6556	K	814.5418	407.7745	797.5152	399.2613			6
6	723.3672	362.1872	706.3406	353.6740	705.3566	353.1819	P	630.4206	315.7139	613.3941	307.2007			5
7	780.3886	390.6980	763.3621	382.1847	762.3781	381.6927	G	533.3678	267.1876	516.3413	258.6743			4
8	879.4571	440.2322	862.4305	431.7189	861.4465	431.2269	V	476.3464	238.6768	459.3198	230.1636			3
9	1081.6161	541.3117	1064.5895	532.7984	1063.6055	532.3064	K	377.2780	189.1426	360.2514	180.6293			2
10							R	175.1190	88.0631	158.0924	79.5498			1

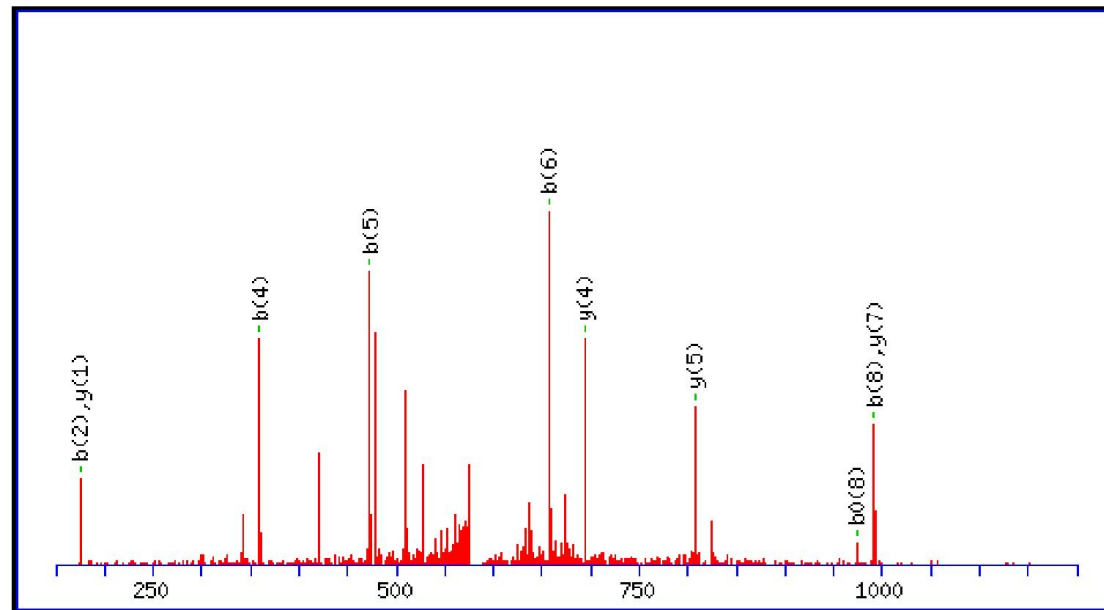
MS/MS Fragmentation of **SSALIKHKR**Found in **Q5TEG9**, Zinc finger protein 436 OS=Homo sapiens GN=ZNF436 PE=2 SV=1

Match to Query 2760: 1164.686628 from(583.350590, 2+) intensity(358703.2813)

Title: File1332 Spectrum11041 scans: 12288

Data file I:\2013-9-14-Hela-Prometh-Fr10-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring **Monoisotopic mass of neutral peptide Mr(calc):** 1164.6979**Fixed modifications:** Carbamidomethyl (C) (apply to specified residues or termini only)**Variable modifications:****K6** : Propionyl (K)**K8** : Propionyl-Methylation (K)**Ions Score:** 39 **Expect:** 0.056**Matches** : 10/72 fragment ions using 10 most intense peaks ([help](#))

#	b	b ⁺⁺	b*	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y*	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#
1	88.0393	44.5233			70.0287	35.5180	S							9
2	175.0713	88.0393			157.0608	79.0340	S	1078.6731	539.8402	1061.6466	531.3269	1060.6626	530.8349	8
3	246.1084	123.5579			228.0979	114.5526	A	991.6411	496.3242	974.6146	487.8109			7
4	359.1925	180.0999			341.1819	171.0946	L	920.6040	460.8056	903.5774	452.2924			6
5	472.2766	236.6419			454.2660	227.6366	I	807.5199	404.2636	790.4934	395.7503			5
6	656.3978	328.7025	639.3712	320.1892	638.3872	319.6972	K	694.4359	347.7216	677.4093	339.2083			4
7	793.4567	397.2320	776.4301	388.7187	775.4461	388.2267	H	510.3147	255.6610	493.2881	247.1477			3
8	991.5935	496.3004	974.5669	487.7871	973.5829	487.2951	K	373.2558	187.1315	356.2292	178.6183			2
9							R	175.1190	88.0631	158.0924	79.5498			1

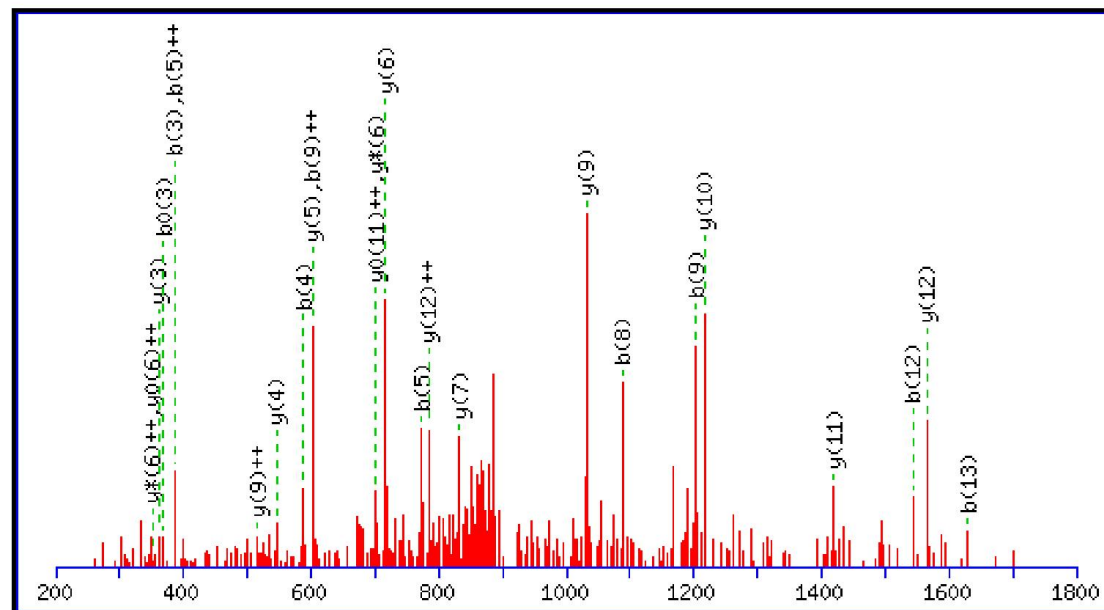
Found in **F5H0L8**, SEC23-interacting protein OS=Homo sapiens GN=SEC23IP PE=2 SV=1

Match to Query 12640: 1802.979348 from(902.496950, 2+) intensity(32097.1836)

Title: File394 Spectrum10127 scans: 11437

Data file \\192.168.1.104\public\raw data\Elite_01\methylation_ZW\SW620\2013-5-16-620-Kpropio-methyl-IP-Fr8-ZW.mgf

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

Or, to Da Label all possible matches Label matches used for scoring Monoisotopic mass of neutral peptide $M_r(\text{calc})$: 1802.9799

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

Variable modifications:

K4 : Propionyl-(13CD3)Methyl (K)**K5** : Propionyl (K)**K11** : Propionyl (K)

Ions Score: 45 Expect: 0.017

Matches : 25/148 fragment ions using 44 most intense peaks ([help](#))

#	b	b ⁺⁺	b ⁺	b ⁺⁺⁺	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y ⁺	y ⁺⁺⁺	y ⁰	y ⁰⁺⁺	#	
1	102.0560	51.5311			84.0444	42.5258	T							14	
2	239.1139	120.0606			221.1033	111.0553	H	1702.9395	851.9734	1685.9130	843.4601	1684.9290	842.9621	13	
3	386.1823	193.5948			368.1717	184.5895	F	1565.8806	783.4439	1548.8541	774.9307	1547.8701	774.4387	12	
4	588.3413	294.6743		571.3147	286.1610	570.3307	285.6690	K	1418.8122	709.9097	1401.7857	701.9965	1400.8016	700.9045	11
5	772.4625	386.7349	755.4359	378.2216	754.4519	377.7296	K	1216.6532	608.8302	1199.6266	600.3170	1198.6426	599.8250	10	
6	859.4945	430.2509	842.4680	421.7376	841.4839	421.2456	S	1032.5320	516.7696	1015.5055	508.2564	1014.5214	507.7644	9	
7	972.5786	486.7929	955.5520	478.2796	954.5680	477.7876	L	945.5000	473.2536	928.4734	464.7404	927.4894	464.2483	8	
8	1087.6055	544.3064	1070.5790	535.7931	1069.5949	535.3011	D	832.4159	416.7116	815.3894	408.1983	814.4054	407.7063	7	
9	1202.6325	601.8199	1185.6059	593.3066	1184.6219	592.8146	D	717.3890	359.1981	700.3624	350.6849	699.3784	350.1928	6	
10	1259.6539	630.3306	1242.6274	621.8173	1241.6433	621.3253	G	602.3620	301.6847	585.3385	293.1714	584.3515	292.6794	5	
11	1443.7761	722.3912	1426.7485	713.8779	1425.7645	713.3859	K	545.3406	273.1739	528.3140	264.6606	527.3300	264.1686	4	
12	1542.8435	771.9254	1525.8170	763.4121	1524.8329	762.9201	V	361.2194	181.1133	344.1928	172.6001	343.2088	172.1081	3	
13	1629.8755	815.4414	1612.8490	806.9281	1611.8660	806.4361	S	262.1510	131.5791	245.1294	123.0659	244.1404	122.5738	2	
14							R	175.1190	88.0631	158.0924	79.5498			1	

Found in **P13639**, Elongation factor 2 OS=Homo sapiens GN=EEF2 PE=1 SV=4

Match to Query 14960: 2328.340908 from(1165.177730,2+) intensity(69909.9141)

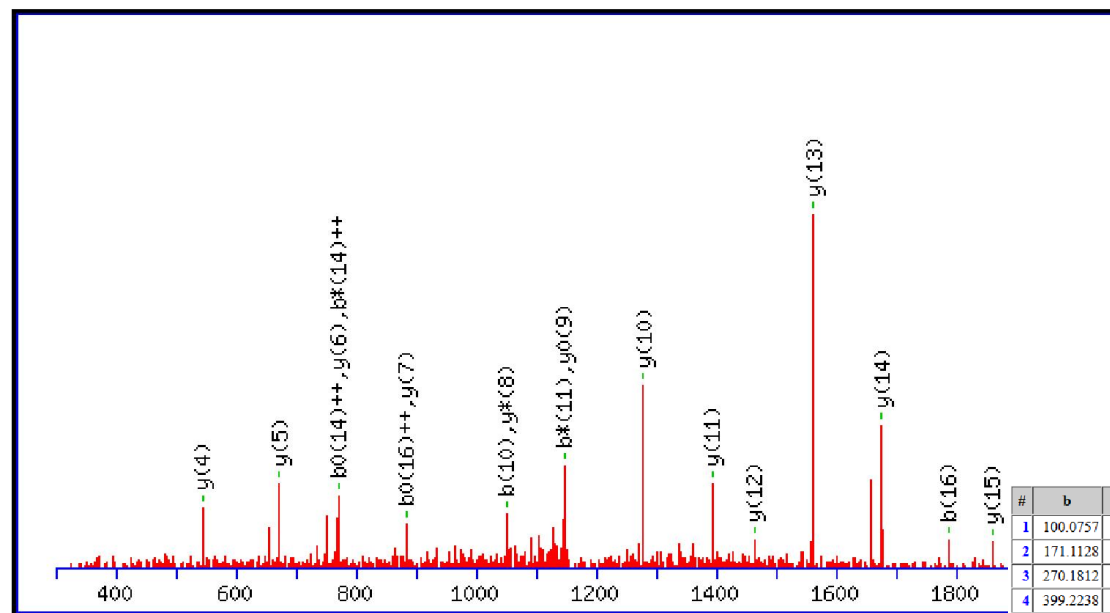
Title: File1308 Spectrum18902 scans: 20356

Data file I:\2013-9-12-Hela-Prometh-Fr4-ZW.mgf

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

Or, to Da

Label all possible matches Label matches used for scoring



Monoisotopic mass of neutral peptide Mr(calc): 2328.3416

Fixed modifications: Carbamidomethyl (C) (apply to specified residues)

Variable modifications:

K6 : Propionyl (K)

K13 : Propionyl (K)

K19 : Propionyl-Methylation (K)

Ions Score: 78 Expect: 7.5e-006

Matches : 18/204 fragment ions using 17 most intense peaks

#	b	b ⁺⁺	b [*]	b ⁺⁺ *	b ⁰	b ⁰⁺⁺	Seq.	y	y ⁺⁺	y [*]	y ⁺⁺ *	y ⁰	y ⁰⁺⁺	#
1	100.0757	50.5415					V							20
2	171.1128	86.0600					A	2230.2805	1115.6439	2213.2540	1107.1306	2212.2700	1106.6386	19
3	270.1812	135.5942					V	2159.2434	1080.1254	2142.2169	1071.6121	2141.2329	1071.1201	18
4	399.2238	200.1155			381.2132	191.1103	E	2060.1750	1030.5911	2043.1485	1022.0779	2042.1645	1021.5859	17
5	470.2609	235.6341			452.2504	226.6288	A	1931.1324	966.0699	1914.1059	957.5566	1913.1219	957.0646	16
6	654.3821	327.6947	637.3556	319.1814	636.3715	318.6894	K	1860.0953	930.5513	1843.0688	922.0380	1842.0847	921.5460	15
7	768.4250	384.7162	751.3985	376.2029	750.4145	375.7109	N	1675.9741	838.4907	1658.9476	829.9774	1657.9636	829.4854	14
8	865.4778	433.2425	848.4512	424.7293	847.4672	424.2373	P	1561.9312	781.4692	1544.9047	772.9560	1543.9206	772.4640	13
9	936.5149	468.7611	919.4884	460.2478	918.5043	459.7558	A	1464.8784	732.9429	1447.8519	724.4296	1446.8679	723.9376	12
10	1051.5419	526.2746	1034.5153	517.7613	1033.5313	517.2693	D	1393.8413	697.4243	1376.8148	688.9110	1375.8308	688.4190	11
11	1164.6259	582.8166	1147.5994	574.3033	1146.6153	573.8113	L	1278.8144	639.9108	1261.7878	631.3976	1260.8038	630.9055	10
12	1261.6787	631.3430	1244.6521	622.8297	1243.6681	622.3377	P	1165.7303	583.3688	1148.7038	574.8555	1147.7198	574.3635	9
13	1445.7999	723.4036	1428.7733	714.8903	1427.7893	714.3983	K	1068.6776	534.8424	1051.6510	526.3291	1050.6670	525.8371	8
14	1558.8839	779.9456	1541.8574	771.4323	1540.8734	770.9403	L	884.5564	442.7818	867.5298	434.2686	866.5458	433.7765	7
15	1657.9523	829.4798	1640.9258	820.9665	1639.9418	820.4745	V	771.4723	386.2398	754.4458	377.7265	753.4617	377.2345	6
16	1786.9949	894.0011	1769.9684	885.4878	1768.9844	884.9958	E	672.4039	336.7056	655.3774	328.1923	654.3933	327.7003	5
17	1844.0164	922.5118	1826.9898	913.9986	1826.0058	913.5066	G	543.3613	272.1843	526.3348	263.6710			4
18	1957.1005	979.0539	1940.0739	970.5406	1939.0899	970.0486	L	486.3398	243.6736	469.3133	235.1603			3
19	2155.2373	1078.1223	2138.2107	1069.6090	2137.2267	1069.1170	K	373.2558	187.1315	356.2292	178.6183			2
20							R	175.1190	88.0631	158.0924	79.5498			1

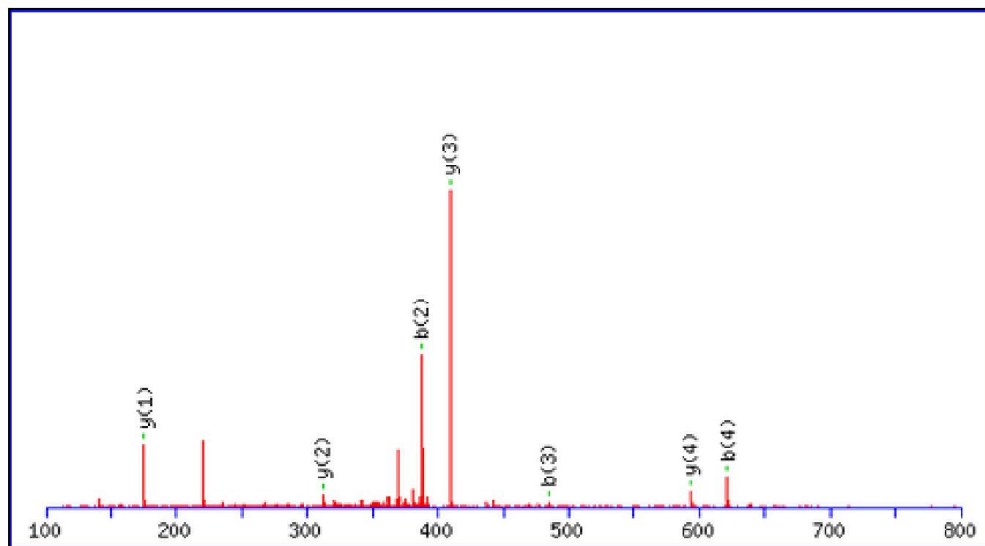
MS/MS Fragmentation of **KKPHR**Found in **Q9NYL2**, Mitogen-activated protein kinase kinase kinase MLT OS=Homo sapiens GN=MLTK PE=1 SV=3

Match to Query 6542: 794.502788 from(398.258670,2+) intensity(291034.0000)

Title: File1989 Spectrum7658 scans: 8488

Data file I:\2013-12-03-SIMM7721-FR13-ZW2.mgf

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

Or, 100 800 Label all possible matches Label matches used for scoring 

Monoisotopic mass of neutral peptide Mr(calc): 794.5035

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

Variable modifications:

K1 : Propionyl-(13CD3)Methyl (K)

K2 : Propionyl (K)

Ions Score: 25 Expect: 0.13

Matches : 7/32 fragment ions using 14 most intense peaks ([help](#))

#	b	b ⁺⁺	b [*]	b ^{*++}	Seq.	y	y ⁺⁺	y [*]	y ^{*++}	#
1	203.1663	102.0868	186.1397	93.5735	K					5
2	387.2875	194.1474	370.2609	185.6341	K	593.3518	297.1795	576.3253	288.6663	4
3	484.3402	242.6738	467.3137	234.1605	P	409.2306	205.1190	392.2041	196.6057	3
4	621.3991	311.2032	604.3726	302.6899	H	312.1779	156.5926	295.1513	148.0793	2
5					R	175.1190	88.0631	158.0924	79.5498	1