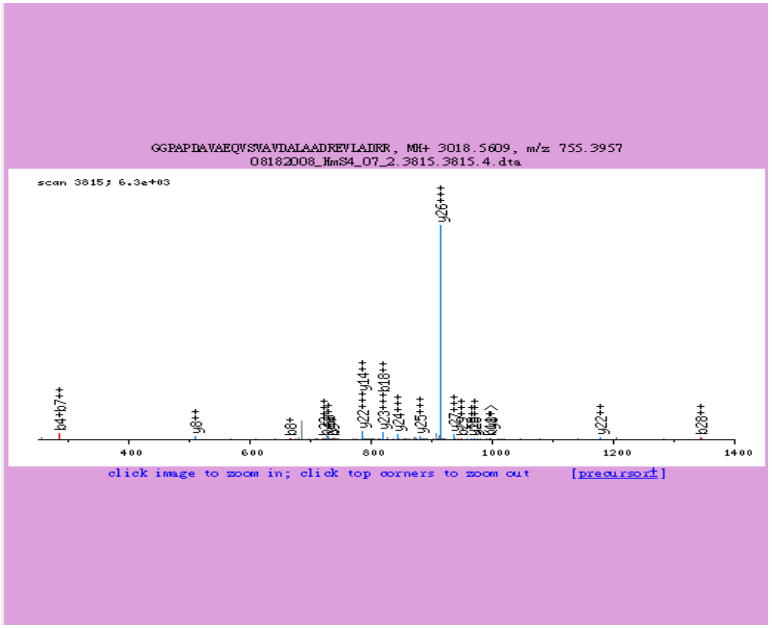
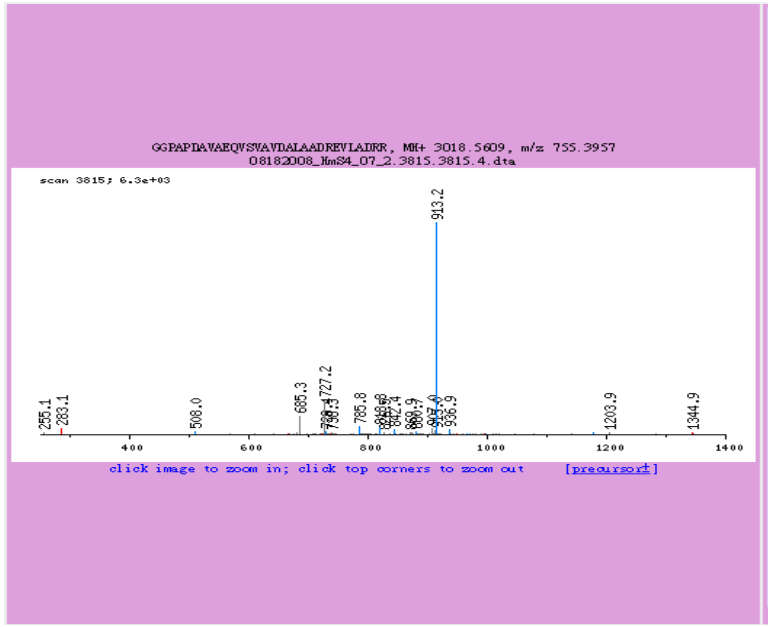
Supplementary Figure 1. Tandem mass spectra of the *H. marismortui* proteins identified with only a single unique peptide. The gene locus name, peptide sequence, peptide probability, precursor charge, calculated neutral peptide mass, precursor neutral mass, mass difference, Xcorr, and deltaCN are indicated in the top right corner. *Top left pane*l: MS/MS spectrum showing the matched b- and y-ions; *Bottom left panel*: MS/MS spectrum showing the m/z of the matched b- and y-ions. *Bottom right panel*: Table of highlighted matched b- and y-ions.



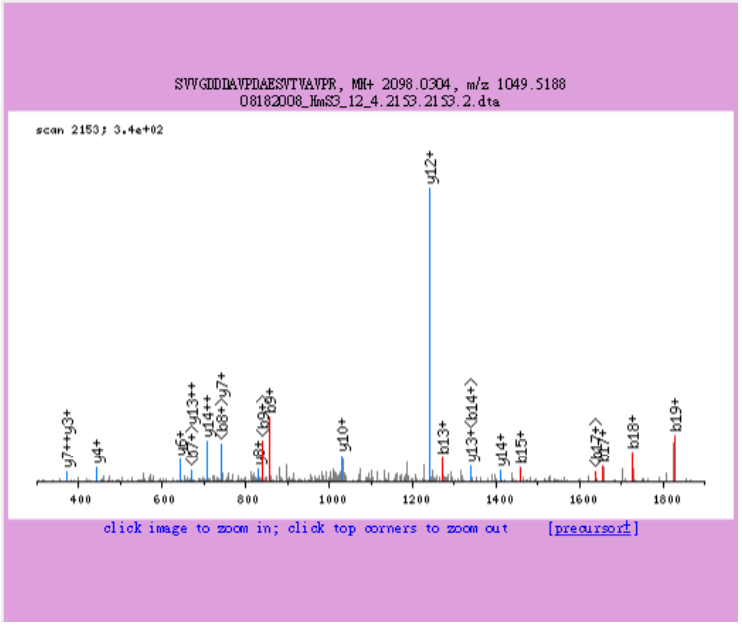
rrnAC2681

GGPAPDAVAEQVSVAVDALAADREVLADRR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
0.9998	4	3017.6	3018.6	1.0181	1.981	0.182



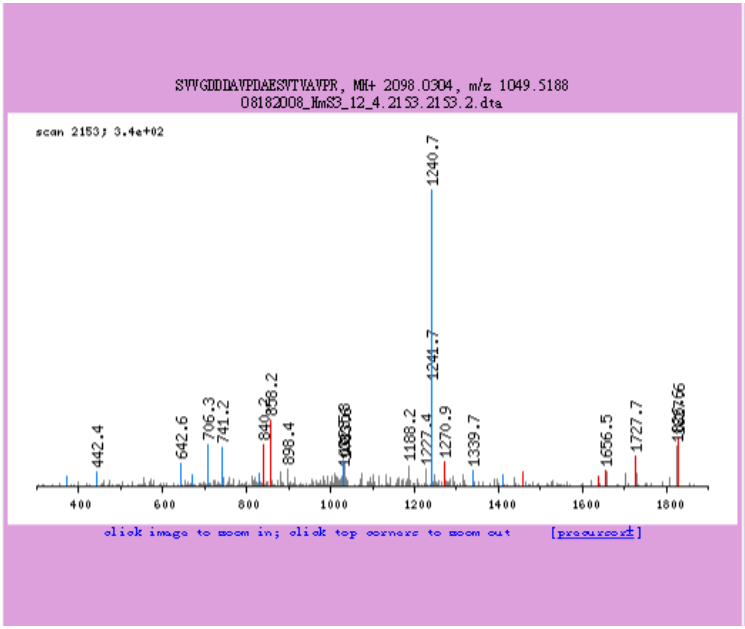
b^+	b^{2+}	b^{3+}	#	AA	#	y^+	y^{2+}	y^{3+}
58.0293	29.5186	20.0150	1	G	30			
115.0508	58.0293	39.0221	2	G	29	2961.5394	1481.2736	987.8517
212.1035	106.5557	71.3731	3	P	28	2904.5179	1452.7629	**968.8445**
283.1406	142.0742	95.0521	4	A	27	2807.4652	1404.2365	**936.4936**
380.1934	190.6006	127.4030	5	P	26	2736.4280	1368.7179	**912.8146**
495.2203	248.1141	165.7453	6	D	25	2639.3753	1320.1916	**880.4636**
566.2575	**283.6326**	189.4244	7	A	24	2524.3483	1262.6781	**842.1213**
665.3259	333.1668	222.4472	8	V	23	2453.3112	1227.1595	**818.4423**
736.3630	368.6854	246.1262	9	A	22	2354.2428	**1177.6253**	**785.4195**
865.4056	433.2067	289.1404	10	E	21	2283.2057	1142.1068	761.7404
993.4641	497.2360	331.8266	11	Q	20	2154.1631	1077.5855	718.7263
1092.5326	546.7702	364.8494	12	V	19	2026.1045	1013.5562	676.0401
1179.5646	590.2862	393.8601	13	S	18	1927.0361	**964.0220**	643.0173
1278.6330	639.8204	426.8829	14	V	17	1840.0041	920.5060	614.0066
1349.6701	675.3390	450.5619	15	A	16	1740.9357	870.9717	580.9838
1448.7385	724.8732	483.5847	16	V	15	1669.8986	835.4532	557.3047
1563.7655	782.3867	521.9270	17	D	14	1570.8301	**785.9190**	524.2819
1634.8026	**817.9052**	545.6061	18	A	13	1455.8032	**728.4055**	485.9396
1747.8867	874.4472	583.3008	19	L	12	1384.7661	692.8870	462.2606
1818.9238	909.9658	606.9798	20	A	11	1271.6820	636.3449	424.5659
1889.9609	945.4844	630.6588	21	A	10	1200.6449	600.8264	400.8869
2004.9878	1002.9978	669.0012	22	D	9	1129.6078	565.3078	377.2078
2161.0889	1081.0484	**721.0349**	23	R	8	1014.5809	**507.7943**	338.8655
2290.1315	1145.5697	764.0491	24	E	7	858.4797	429.7438	286.8318
2389.1999	1195.1039	797.0719	25	V	6	**729.4371**	365.2225	243.8176
2502.2840	1251.6459	834.7666	26	L	5	630.3687	315.6883	210.7948
2573.3211	1287.1645	858.4456	27	A	4	517.2847	259.1462	173.1001
2688.3481	**1344.6779**	896.7879	28	D	3	446.2476	223.6277	149.4211
2844.4492	1422.7285	**948.8216**	29	R	2	331.2206	166.1142	111.0788
			30	R	1	175.1195	88.0637	59.0451



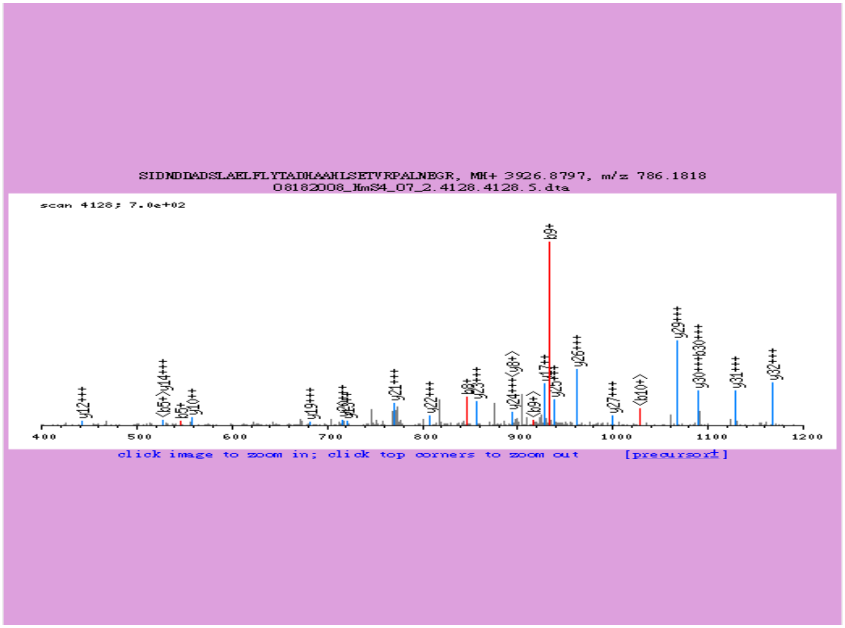
rrnAC1938

SVVGDDDAVPDAESVTVAVPR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	2	2097	2098	1.005	4.522	0.482



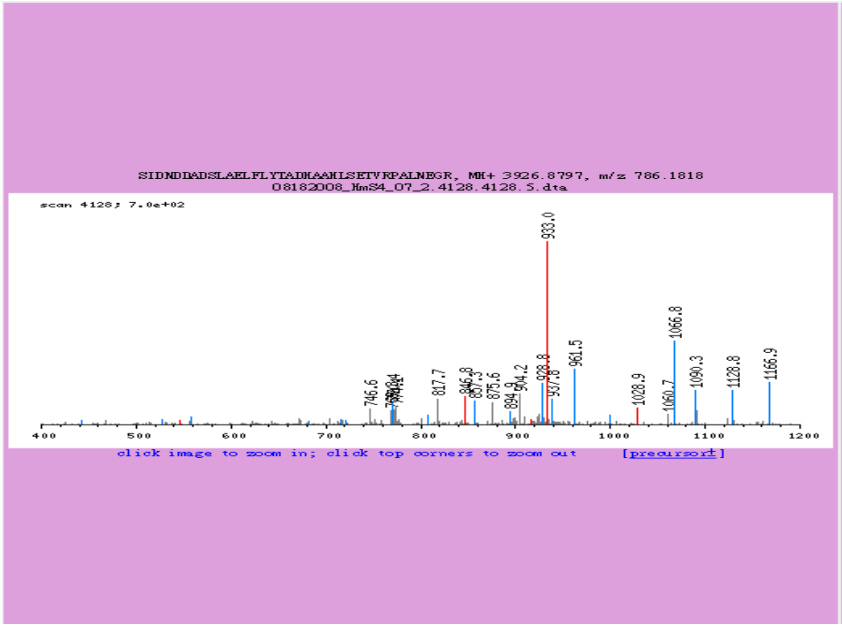
b+	#	AA	#	y+	y2+
88.0399	1	S	21		
187.1083	2	V	20	2010.9984	1006.0031
286.1767	3	V	19	1911.9300	956.4689
343.1981	4	G	18	1812.8616	906.9347
458.2251	5	D	17	1755.8401	878.4240
573.2520	6	D	16	1640.8132	820.9105
688.2790	7	D	15	1525.7862	763.3970
759.3161	8	A	14	1410.7593	705.8835
858.3845	9	V	13	1339.7222	670.3650
955.4373	10	P	12	1240.6537	620.8308
1070.4642	11	D	11	1143.6010	572.3044
1141.5013	12	A	10	1028.5740	514.7909
1270.5439	13	E	9	957.5369	479.2724
1357.5759	14	S	8	828.4943	414.7511
1456.6444	15	V	7	741.4623	371.2351
1557.6920	16	T	6	642.3939	321.7009
1656.7605	17	V	5	541.3462	271.1770
1727.7976	18	A	4	442.2778	221.6428
1826.8660	19	V	3	371.2407	186.1243
1923.9187	20	P	2	272.1723	136.5900
	21	R	1	175.1195	88.0637



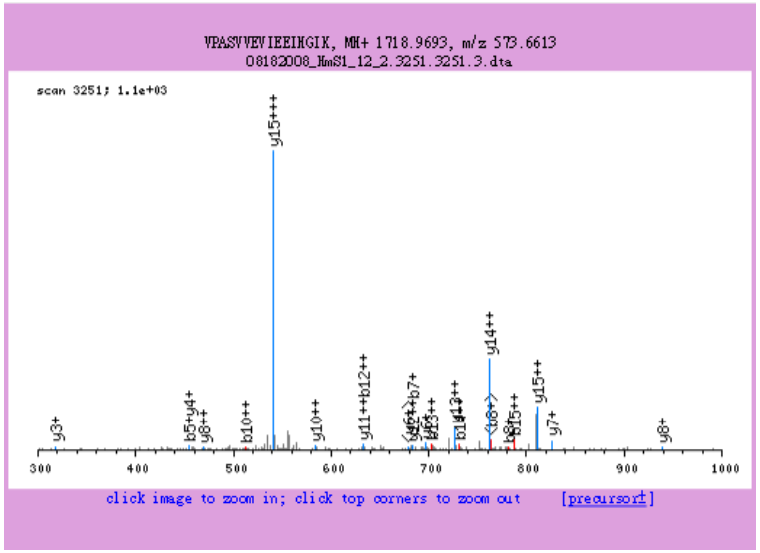
rrnAC3286

SIDNDDADSLAELFLYTADHAAHLSETVR
PALNEGR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
0.9999	5	3925.9	3925.9	0.0201	3.367	0.133



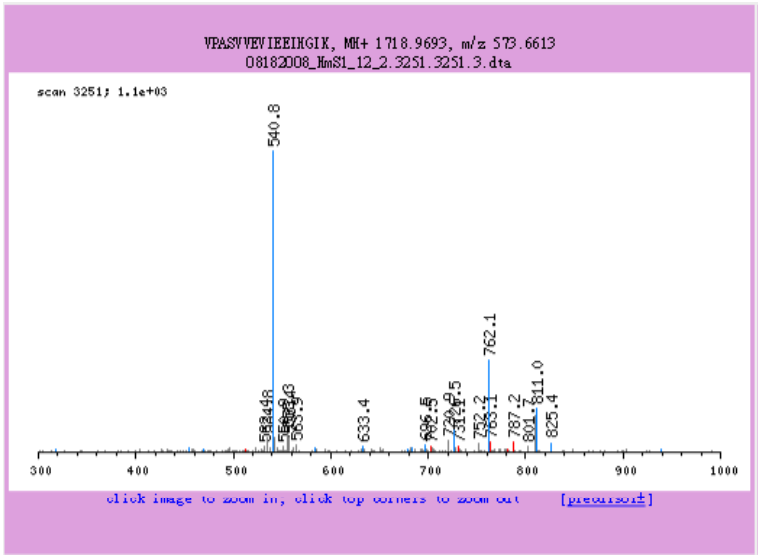
b^{+}	b^{2+}	b^{3+}	#	AA	#	y^{+}	y^{2+}	y^{3+}
88.0399	44.5238	30.0185	1	S	36			
201.1239	101.0659	67.7132	2	I	35	3839.8477	1920.4277	1280.6211
316.1509	158.5793	106.0555	3	D	34	3726.7636	1863.8857	1242.9264
430.1938	215.6008	144.0698	4	N	33	3611.7366	1806.3722	1204.5841
545.2207	273.1143	182.4121	5	D	32	3497.6937	1749.3508	**1166.5698**
660.2477	330.6277	220.7544	6	D	31	3382.6668	1691.8373	**1128.2275**
731.2848	366.1463	244.4335	7	A	30	3267.6398	1634.3238	**1089.8852**
846.3117	423.6598	282.7758	8	D	29	3196.6027	1598.8053	**1066.2061**
933.3438	467.1758	311.7865	9	S	28	3081.5758	1541.2918	1027.8638
1046.4278	523.7178	349.4812	10	L	27	2994.5437	1497.7758	**998.8531**
1117.4649	559.2364	373.1602	11	A	26	2881.4597	1441.2338	**961.1584**
1246.5075	623.7577	416.1744	12	E	25	2810.4226	1405.7152	**937.4794**
1359.5916	680.2997	453.8691	13	L	24	2681.3800	1341.1939	**894.4652**
1506.6600	753.8339	502.8919	14	F	23	2568.2959	1284.6519	**856.7705**
1619.7441	810.3759	540.5866	15	L	22	2421.2275	1211.1177	**807.7477**
1782.8074	891.9076	594.9410	16	Y	21	2308.1434	1154.5756	**770.0530**
1883.8551	942.4315	628.6236	17	T	20	2145.0801	1073.0440	**715.6986**
1954.8922	977.9500	652.3026	18	A	19	2044.0324	1022.5201	**682.0160**
2069.9191	1035.4635	690.6449	19	D	18	1972.9953	987.0016	658.3370
2206.9780	1103.9929	736.3312	20	I	17	1857.9684	**929.4881**	619.9947
2278.0152	1139.5115	760.0103	21	A	16	1720.9095	860.9586	574.3084
2349.0523	1175.0301	783.6893	22	A	15	1649.8723	825.4401	550.6293
2486.1112	1243.5595	829.3756	23	I	14	1578.8352	789.9215	**526.9503**
2599.1953	1300.1015	867.0703	24	L	13	1441.7763	**721.3921**	481.2640
2686.2273	1343.6176	896.0810	25	S	12	1328.6923	664.8500	**443.5693**
2815.2699	1408.1388	939.0952	26	E	11	1241.6602	621.3340	414.5586
2916.3176	1458.6627	972.7777	27	T	10	1112.6176	**556.8127**	371.5444
3015.3860	1508.1969	1005.8005	28	V	9	1011.5700	506.2889	337.8619
3171.4871	1586.2475	1057.8342	29	R	8	912.5015	456.7547	304.8391
3268.5398	1634.7738	**1090.1852**	30	P	7	756.4004	378.7041	252.8054
3339.5770	1670.2924	1113.8642	31	A	6	659.3477	330.1777	220.4544
3452.6610	1726.8344	1151.5589	32	L	5	588.3105	294.6592	196.7754
3566.7039	1783.8559	1189.5732	33	N	4	475.2265	238.1172	159.0807
3695.7465	1848.3772	1232.5874	34	E	3	361.1836	181.0957	121.0664
3752.7680	1876.8879	1251.5946	35	G	2	232.1410	116.5744	78.0522
			36	R	1	175.1195	88.0637	59.0451



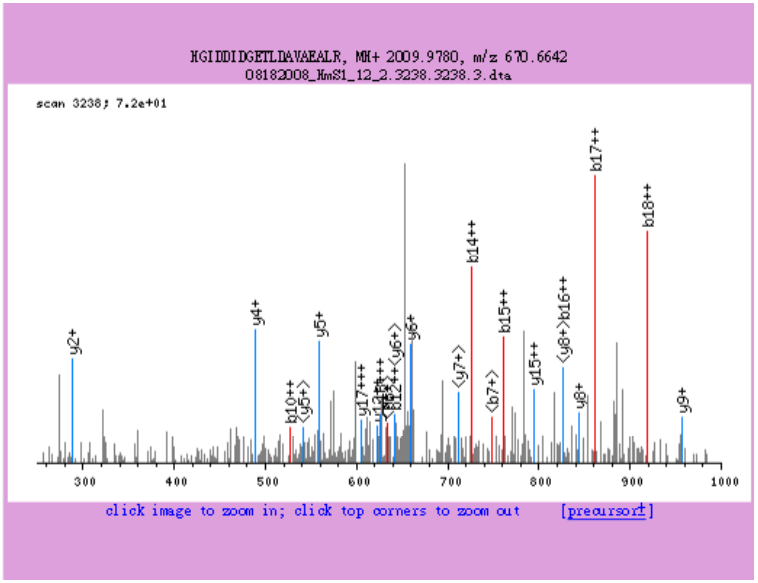
rrnAC1913

VPASVVEVIEEIHGIK

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	3	1718	1718	0.0029	3.243	0.292



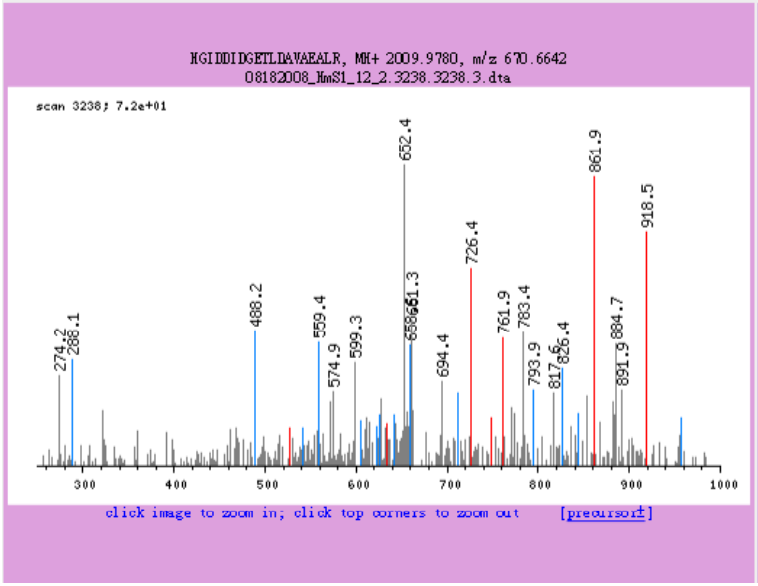
b^+	b^{2+}	#	AA	#	y^+	y^{2+}	y^{3+}
100.0762	50.5420	1	V	16			
197.1290	99.0684	2	P	15	1619.9008	**810.4543**	**540.6388**
268.1661	134.5870	3	A	14	1522.8481	**761.9280**	508.2879
355.1981	178.1030	4	S	13	1451.8110	**726.4094**	484.6089
454.2666	227.6372	5	V	12	1364.7789	**682.8934**	455.5982
553.3350	277.1714	6	V	11	1265.7105	**633.3592**	422.5754
682.3776	341.6927	7	E	10	1166.6421	**583.8250**	389.5526
781.4460	391.2269	8	V	9	1037.5995	519.3037	346.5384
894.5300	447.7689	9	I	8	**938.5311**	**469.7695**	313.5156
1023.5726	**512.2902**	10	E	7	**825.4470**	413.2274	275.8209
1152.6152	576.8115	11	E	6	**696.4044**	348.7061	232.8067
1265.6993	**633.3536**	12	I	5	567.3619	284.1848	189.7925
1402.7582	**701.8830**	13	H	4	**454.2778**	227.6428	152.0978
1459.7797	**730.3937**	14	G	3	**317.2189**	159.1134	106.4115
1572.8637	**786.9358**	15	I	2	260.1974	130.6026	87.4044
		16	K	1	147.1134	74.0606	49.7097



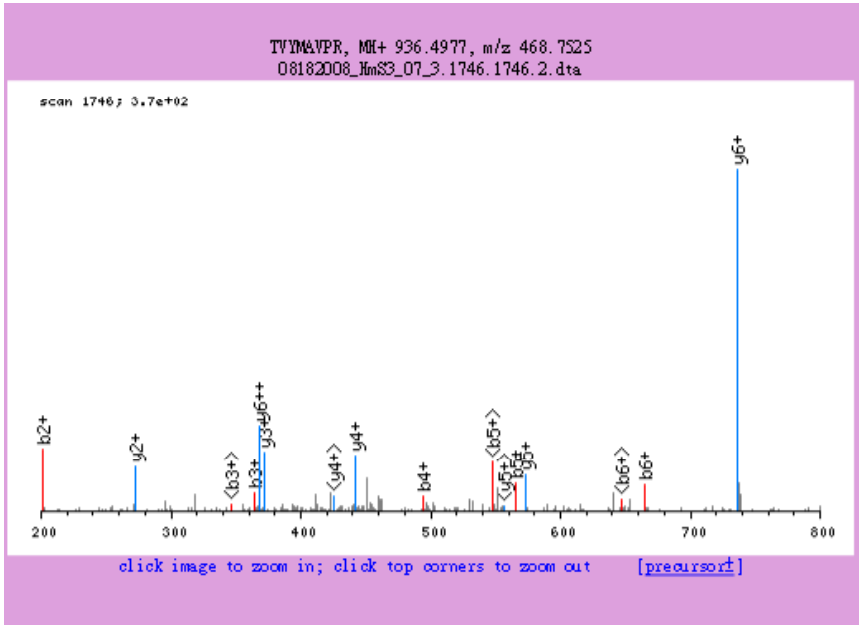
rrnAC0470

HGIDDIDGETLDAVAEALR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
0.9878	3	2009	2009	-0.0119	2.381	0.103



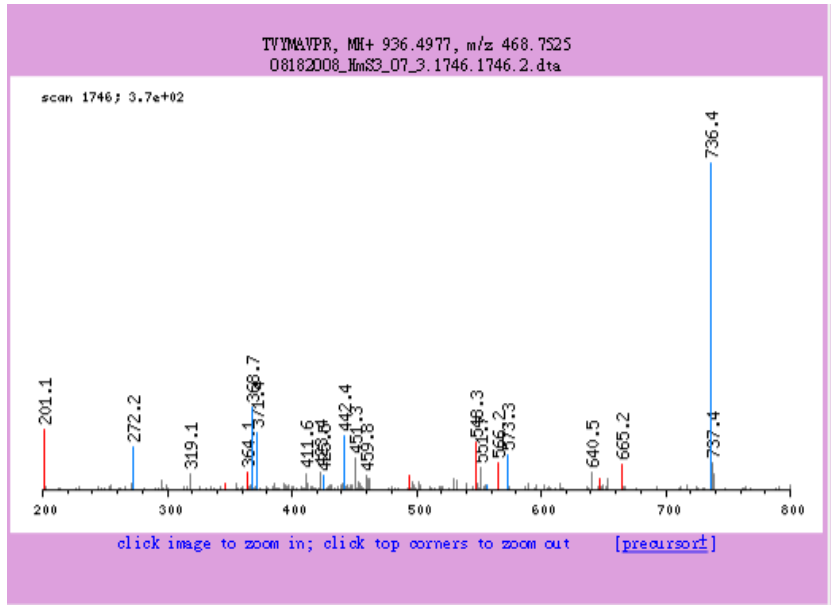
b^+	b^{2+}	#	AA	#	y^+	y^{2+}	y^{3+}
138.0667	69.5373	1	H	19			
195.0882	98.0480	2	G	18	1872.9191	936.9635	**624.9782**
308.1723	154.5900	3	I	17	1815.8976	908.4527	**605.9711**
423.1992	212.1035	4	D	16	1702.8135	851.9107	568.2764
538.2262	269.6170	5	D	15	1587.7866	**794.3972**	529.9341
651.3102	326.1590	6	I	14	1472.7597	736.8837	491.5918
766.3372	383.6725	7	D	13	1359.6756	680.3417	453.8971
823.3586	412.1832	8	G	12	1244.6487	**622.8282**	415.5548
952.4012	476.7045	9	E	11	1187.6272	594.3175	396.5476
1053.4489	**527.2284**	10	T	10	1058.5846	529.7962	353.5334
1166.5330	583.7704	11	L	9	**957.5369**	479.2724	319.8509
1281.5599	**641.2839**	12	D	8	**844.4529**	422.7303	282.1562
1352.5970	676.8024	13	A	7	729.4259	365.2169	243.8139
1451.6654	**726.3366**	14	V	6	**658.3888**	329.6983	220.1348
1522.7025	**761.8552**	15	A	5	**559.3204**	280.1641	187.1120
1651.7451	**826.3765**	16	E	4	**488.2833**	244.6455	163.4330
1722.7822	**861.8950**	17	A	3	359.2407	180.1243	120.4188
1835.8663	**918.4371**	18	L	2	**288.2036**	144.6057	96.7397
		19	R	1	175.1195	88.0637	59.0451



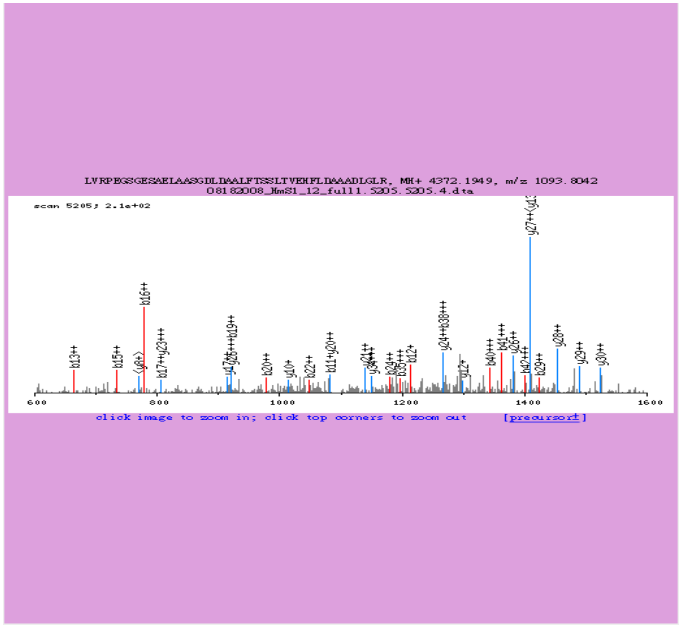
rrnAC3378

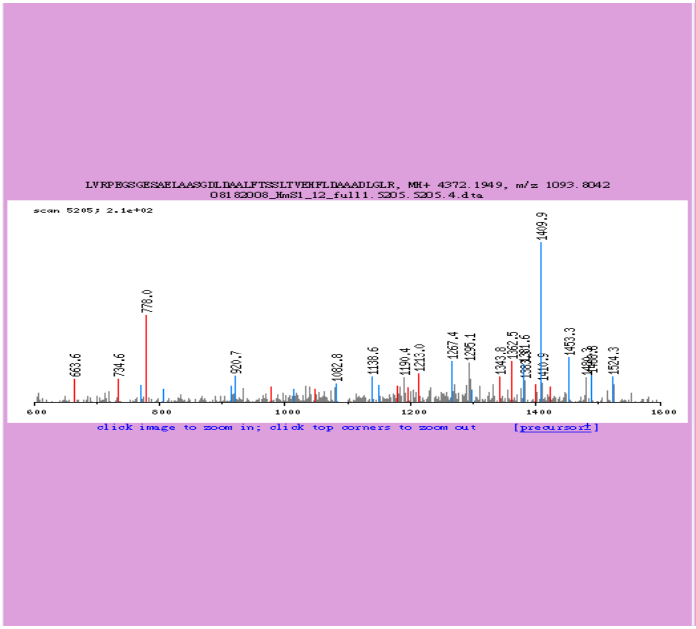
TVYMAVPR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
0.9991	2	935.49	935.49	0.0019	1.935	0.143



b^+	b^{2+}	#	AA	#	y^+	y^{2+}
102.0555	51.5317	1	T	8		
201.1239	101.0659	2	V	7	835.4500	418.2289
364.1872	182.5975	3	Y	6	**736.3816**	**368.6947**
495.2277	248.1178	4	M	5	**573.3183**	287.1631
566.2648	283.6363	5	A	4	**442.2778**	221.6428
665.3333	333.1705	6	V	3	**371.2407**	186.1243
762.3860	381.6969	7	P	2	**272.1723**	136.5900
		8	R	1	175.1195	88.0637



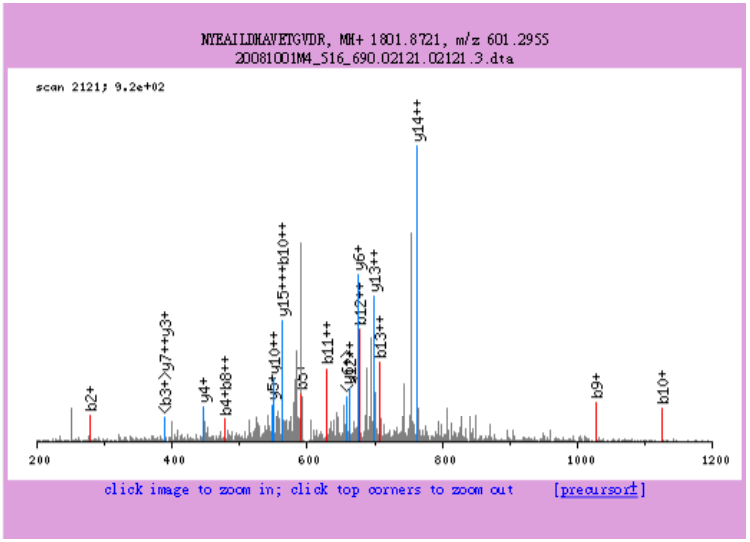


rrnAC3088

LVRPEGSGESAELAASGDLDAALFTSSL
TVEHFLDAAADLGLR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
0.999	4	4371.2	4372.2	1.0103	3.706	0.046

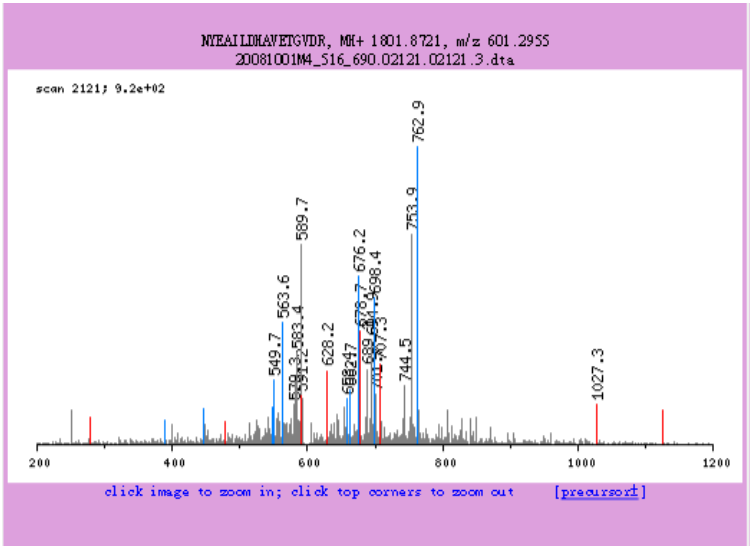
b^+	b^{2+}	b^{3+}	#	AA	#	y^+	y^{2+}	y^{3+}
114.0919	57.5499	38.7025	1	L	43			
213.1603	107.0841	71.7253	2	V	42	4259.1108	2130.0593	1420.3755
369.2614	185.1346	123.7590	3	R	41	4160.0424	2080.5251	1387.3527
466.3142	233.6610	156.1099	4	P	40	4003.9413	2002.4746	1335.3190
595.3568	298.1823	199.1241	5	E	39	3906.8885	1953.9482	1302.9681
652.3782	326.6930	218.1313	6	G	38	3777.8459	1889.4269	1259.9539
739.4103	370.2090	247.1420	7	S	37	3720.8245	1860.9161	1240.9467
796.4317	398.7198	266.1491	8	G	36	3633.7924	1817.4001	1211.9360
925.4743	463.2411	309.1633	9	E	35	3576.7710	1788.8894	1192.9289
1012.5063	506.7571	338.1740	10	S	34	3447.7284	1724.3681	**1149.9147**
1083.5435	542.2756	361.8530	11	A	33	3360.6963	1680.8521	1120.9040
1212.5861	606.7969	404.8672	12	E	32	3289.6592	1645.3335	1097.2250
1325.6701	**663.3390**	442.5619	13	L	31	3160.6166	1580.8122	1054.2108
1396.7072	698.8575	466.2410	14	A	30	3047.5326	**1524.2702**	1016.5161
1467.7443	**734.3761**	489.9200	15	A	29	2976.4955	**1488.7516**	992.8370
1554.7764	**777.8921**	518.9307	16	S	28	2905.4583	**1453.2331**	969.1580
1611.7978	**806.4028**	537.9378	17	G	27	2818.4263	**1409.7171**	940.1473
1726.8248	863.9163	576.2801	18	D	26	2761.4049	**1381.2063**	**921.1402**
1839.9088	**920.4583**	613.9748	19	L	25	2646.3779	1323.6929	882.7979
1954.9358	**977.9718**	652.3171	20	D	24	2533.2938	**1267.1508**	845.1032
2025.9729	1013.4904	675.9962	21	A	23	2418.2669	1209.6374	**806.7609**
2097.0100	**1049.0089**	699.6752	22	A	22	2347.2298	1174.1188	783.0818
2210.0941	1105.5510	737.3699	23	L	21	2276.1927	**1138.6002**	759.4028
2357.1625	**1179.0852**	786.3927	24	F	20	2163.1086	**1082.0582**	721.7081
2458.2102	1229.6090	820.0753	25	T	19	2016.0402	1008.5240	672.6853
2545.2422	1273.1250	849.0860	26	S	18	1914.9925	958.0002	639.0027
2632.2742	1316.6410	878.0966	27	S	17	1827.9605	**914.4842**	609.9920
2745.3583	1373.1831	915.7913	28	L	16	1740.9285	870.9681	580.9814
2846.4060	**1423.7069**	949.4739	29	T	15	1627.8444	814.4261	543.2867
2945.4744	1473.2411	982.4967	30	V	14	1526.7967	763.9023	509.6041
3074.5170	1537.7624	1025.5109	31	E	13	1427.7283	714.3681	476.5813
3211.5759	1606.2919	1071.1972	32	H	12	**1298.6857**	649.8468	433.5671
3358.6443	1679.8261	1120.2200	33	F	11	1161.6268	581.3173	387.8808
3471.7284	1736.3681	1157.9147	34	L	10	**1014.5584**	507.7831	338.8580
3586.7553	1793.8816	**1196.2570**	35	D	9	901.4743	451.2411	301.1633
3657.7924	1829.4001	1219.9360	36	A	8	786.4474	393.7276	262.8210
3728.8295	1864.9187	1243.6151	37	A	7	715.4103	358.2090	239.1420
3799.8667	1900.4372	**1267.2941**	38	A	6	644.3731	322.6905	215.4629
3914.8936	1957.9507	1305.6364	39	D	5	573.3360	287.1719	191.7839
4027.9777	2014.4927	**1343.9311**	40	L	4	458.3091	229.6585	153.4416
4084.9991	2043.0035	**1362.9383**	41	G	3	345.2250	173.1164	115.7469
4198.0832	2099.5455	**1400.0929**	42	L	2	288.2036	144.6057	96.7397
			43	R	1	175.1195	88.0637	59.0451



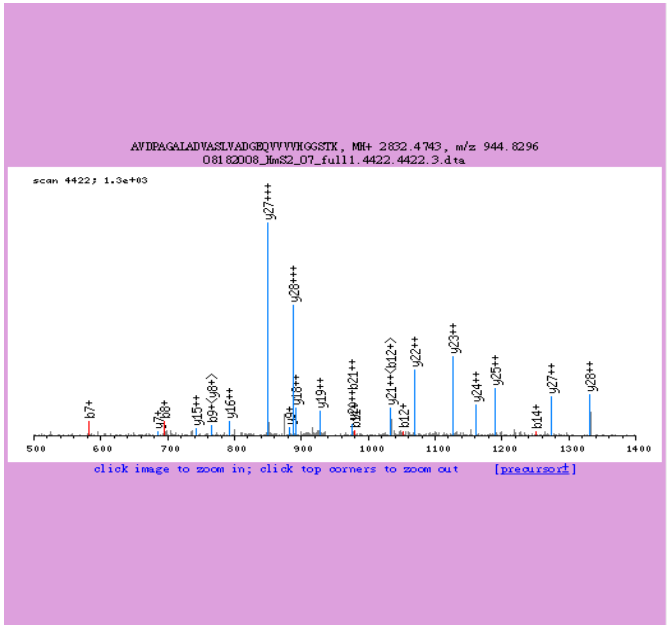
rrnAC2998

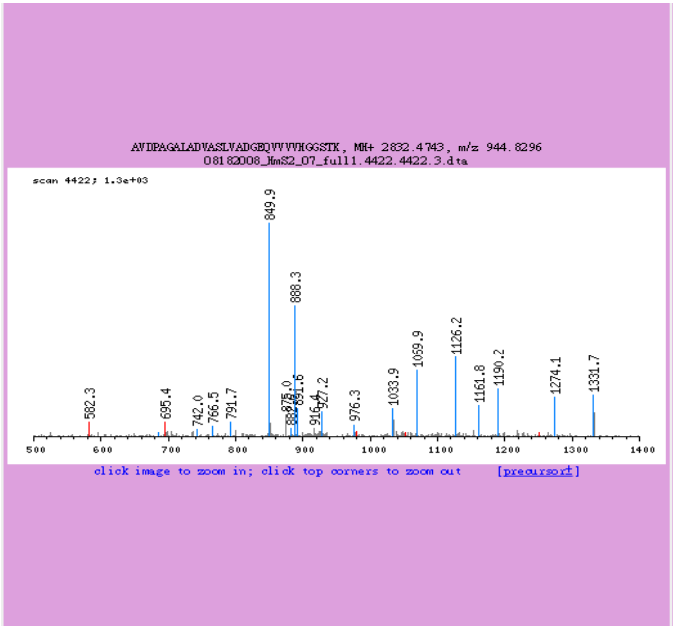
NYEAILDHAVETGVDR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	3	1800.9	1800.9	0.002192	2.972	0.349



b^+	b^{2+}	#	AA	#	y^+	y^{2+}	y^{3+}
115.0508	58.0293	1	N	16			
278.1141	139.5610	2	Y	15	1687.8291	844.4185	**563.2816**
407.1567	204.0822	3	E	14	1524.7658	**762.8868**	508.9272
478.1938	239.6008	4	A	13	1395.7232	**698.3655**	465.9130
591.2779	296.1428	5	I	12	1324.6861	**662.8470**	442.2339
704.3619	352.6849	6	L	11	1211.6020	606.3049	404.5392
819.3889	410.1983	7	D	10	1098.5180	**549.7629**	366.8445
956.4478	**478.7278**	8	H	9	983.4910	492.2494	328.5022
1027.4849	514.2464	9	A	8	846.4321	423.7200	282.8159
1126.5533	**563.7806**	10	V	7	775.3950	**388.2014**	259.1369
1255.5959	**628.3019**	11	E	6	**676.3266**	338.6672	226.1141
1356.6436	**678.8257**	12	T	5	**547.2840**	274.1459	183.0999
1413.6650	**707.3364**	13	G	4	**446.2363**	223.6221	149.4173
1512.7334	756.8706	14	V	3	**389.2149**	195.1113	130.4102
1627.7604	814.3841	15	D	2	290.1464	145.5771	97.3874
		16	R	1	175.1195	88.0637	59.0451



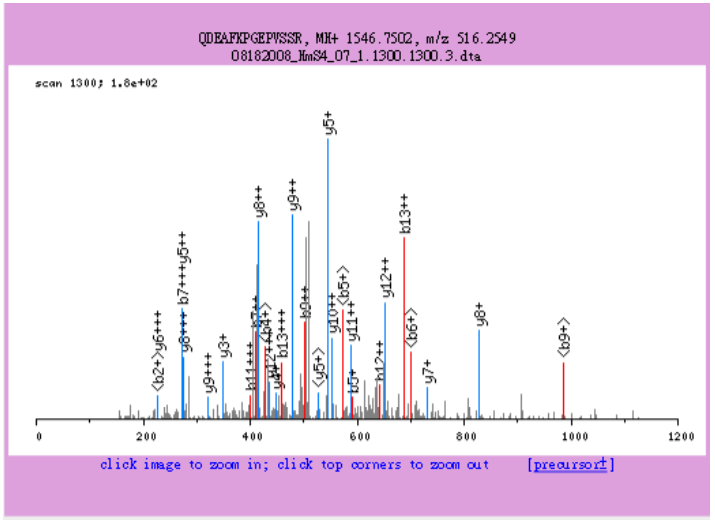


b+	b2+	#	AA	#	y+	y2+	y3+
72.0449	36.5264	1	A	30			
171.1134	86.0606	2	V	29	2761.4372	1381.2225	921.1510
286.1403	143.5741	3	D	28	2662.3688	**1331.6883**	**888.1281**
383.1931	192.1004	4	P	27	2547.3419	**1274.1748**	**849.7858**
454.2302	227.6190	5	A	26	2450.2891	1225.6485	817.4349
511.2516	256.1297	6	G	25	2379.2520	**1190.1299**	793.7559
582.2888	291.6483	7	A	24	2322.2305	**1161.6192**	774.7487
695.3728	348.1903	8	L	23	2251.1934	**1126.1006**	751.0697
766.4099	383.7089	9	A	22	2138.1093	**1069.5586**	713.3750
881.4369	441.2223	10	D	21	2067.0722	**1034.0400**	689.6960
980.5053	490.7566	11	V	20	1952.0453	**976.5266**	651.3536
1051.5424	526.2751	12	A	19	1852.9769	**926.9923**	618.3308
1138.5744	569.7911	13	S	18	1781.9398	**891.4738**	594.6518
1251.6585	626.3332	14	L	17	1694.9077	847.9578	565.6411
1350.7269	675.8674	15	V	16	1581.8237	**791.4157**	527.9464
1421.7640	711.3859	16	A	15	1482.7552	**741.8815**	494.9236
1536.7910	768.8994	17	D	14	1411.7181	706.3630	471.2446
1593.8124	797.4101	18	G	13	1296.6912	648.8495	432.9023
1722.8550	861.9314	19	E	12	1239.6697	620.3388	413.8951
1850.9136	925.9607	20	Q	11	1110.6271	555.8175	370.8809
1949.9820	**975.4949**	21	V	10	982.5686	491.7882	328.1947
2049.0504	1025.0291	22	V	9	**883.5001**	442.2540	295.1719
2148.1188	1074.5633	23	V	8	784.4317	392.7198	262.1491
2247.1873	1124.0975	24	V	7	**685.3633**	343.1856	229.1263
2384.2462	1192.6270	25	H	6	586.2949	293.6514	196.1035
2441.2676	1221.1377	26	G	5	449.2360	225.1219	150.4172
2498.2891	1249.6485	27	G	4	392.2145	196.6112	131.4101
2585.3211	1293.1645	28	S	3	335.1931	168.1004	112.4029
2686.3688	1343.6883	29	T	2	248.1610	124.5844	83.3922
		30	K	1	147.1134	74.0606	49.7097

rrnAC2676

AVDPAGALADVASLVADGEQVVVVHGGSTK

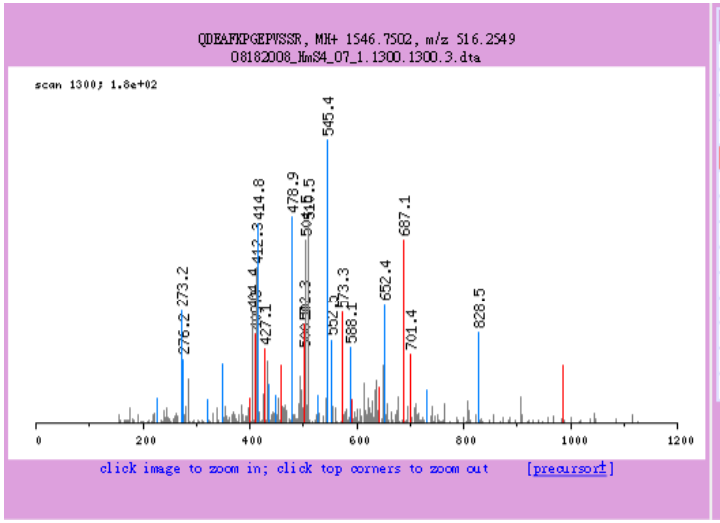
Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	3	2831.5	2831.5	0.0199	4.67	0.521



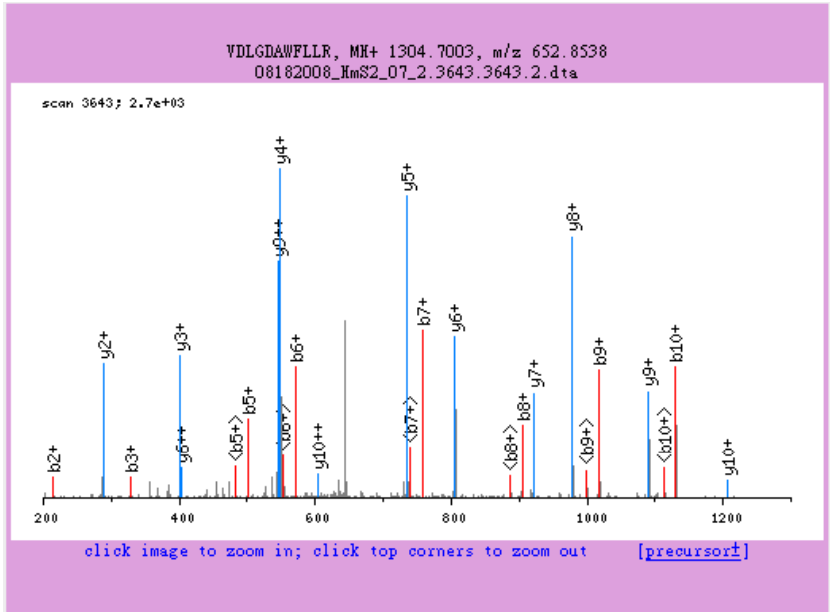
rrnAC2630

QDEAFKPGEPVSSR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
0.9994	3	1545.7	1545.7	0.0015	2.625	0.161



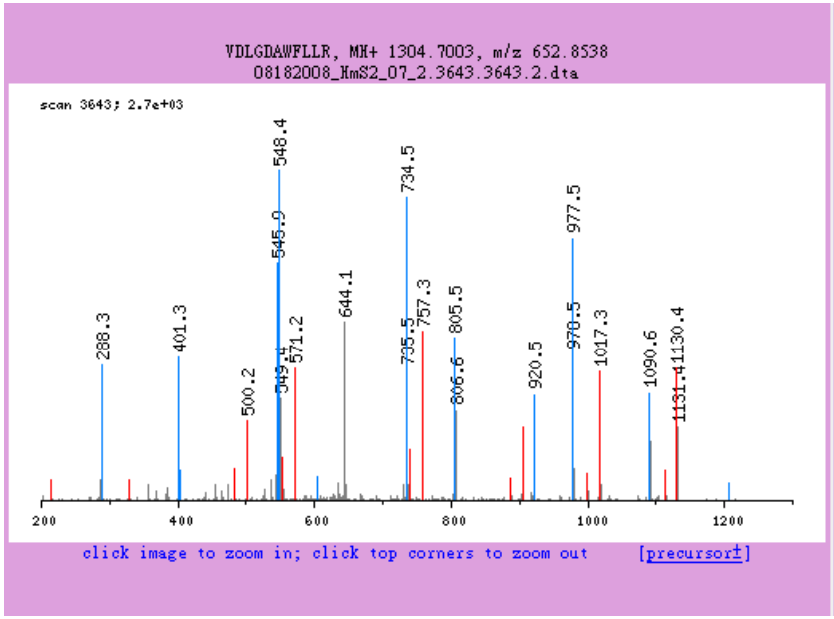
b^+	b^{2+}	b^{3+}	#	AA	#	y^+	y^{2+}	y^{3+}
129.0664	65.0371	43.6940	1	Q	14			
244.0933	122.5506	82.0363	2	D	13	1418.6916	709.8497	473.5691
373.1359	187.0719	125.0505	3	E	12	1303.6646	**652.3362**	**435.2268**
444.1731	222.5904	148.7296	4	A	11	1174.6220	**587.8149**	392.2126
591.2415	296.1246	197.7524	5	F	10	1103.5849	**552.2964**	368.5335
719.3364	360.1721	240.4507	6	K	9	956.5165	**478.7622**	**319.5107**
816.3892	**408.6985**	**272.8016**	7	P	8	**828.4216**	**414.7147**	**276.8124**
873.4107	437.2092	291.8088	8	G	7	**731.3688**	366.1883	244.4615
1002.4533	**501.7305**	334.8230	9	E	6	674.3473	337.6776	**225.4543**
1099.5060	550.2569	367.1739	10	P	5	**545.3047**	**273.1563**	182.4401
1198.5744	599.7911	**400.1967**	11	V	4	**448.2520**	224.6299	150.0892
1285.6065	**643.3071**	429.2074	12	S	3	**349.1836**	175.0957	117.0664
1372.6385	**686.8232**	**458.2180**	13	S	2	262.1515	131.5797	88.0557
			14	R	1	175.1195	88.0637	59.0451



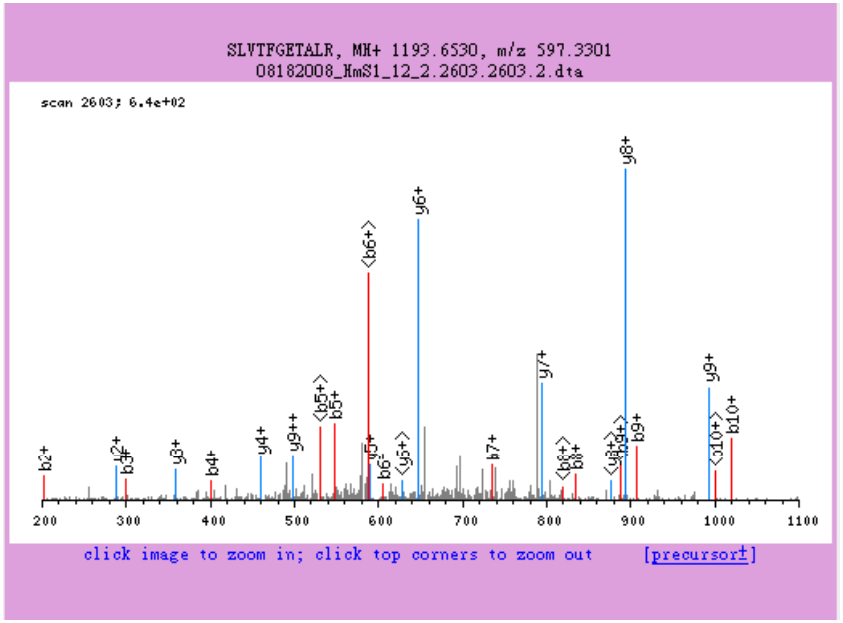
rrnAC2574

VDLGDAWFLLR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	2	1303.7	1303.7	0.0009	4.365	0.432



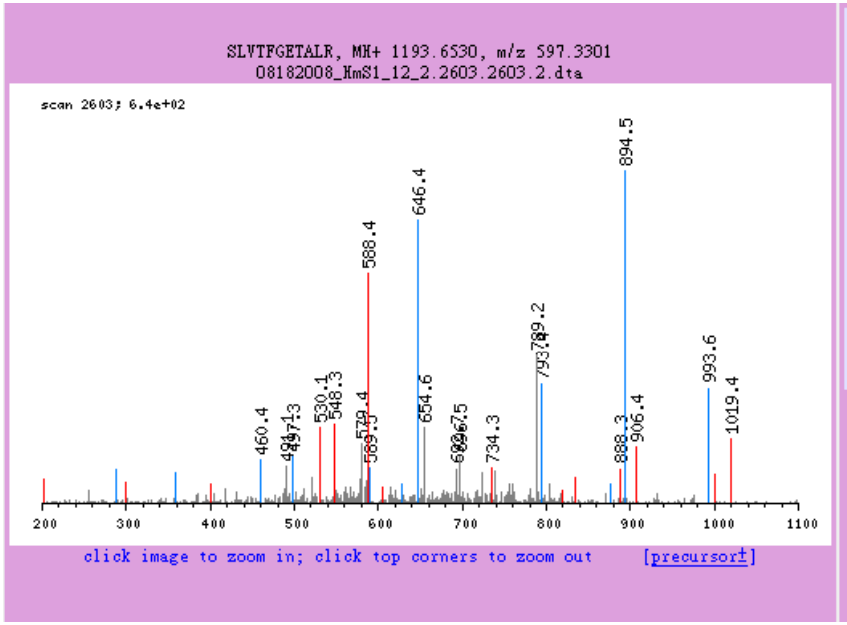
b^+	#	AA	#	y^+	y^{2+}
100.0762	1	V	11		
215.1032	2	D	10	1205.6319	603.3199
328.1872	3	L	9	1090.6049	545.8064
385.2087	4	G	8	977.5209	489.2644
500.2357	5	D	7	920.4994	460.7536
571.2728	6	A	6	805.4725	403.2401
757.3521	7	W	5	734.4354	367.7216
904.4205	8	F	4	548.3560	274.6819
1017.5046	9	L	3	401.2876	201.1477
1130.5886	10	L	2	288.2036	144.6057
	11	R	1	175.1195	88.0637



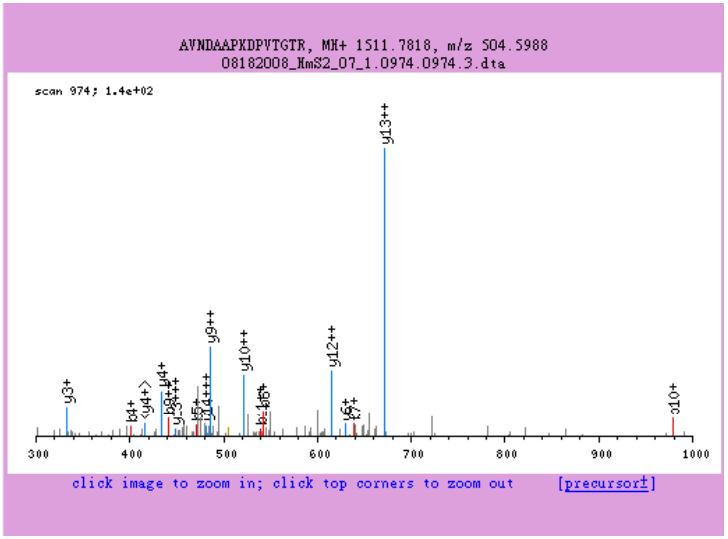
rrnAC2551

SLVTFGETALR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
0.9998	2	1192.6	1192.6	0.0014	2.845	0.442



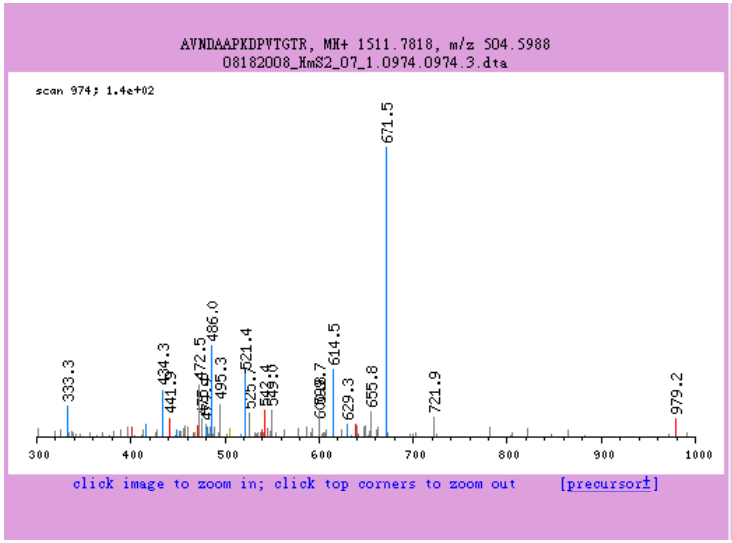
b^+	#	AA	#	y^+	y^{2+}
88.0399	1	S	11		
201.1239	2	L	10	1106.6210	553.8144
300.1923	3	V	9	993.5369	497.2724
401.2400	4	T	8	894.4685	447.7382
548.3084	5	F	7	793.4208	397.2143
605.3299	6	G	6	646.3524	323.6801
734.3725	7	E	5	589.3310	295.1694
835.4202	8	T	4	460.2884	230.6481
906.4573	9	A	3	359.2407	180.1243
1019.5413	10	L	2	288.2036	144.6057
	11	R	1	175.1195	88.0637



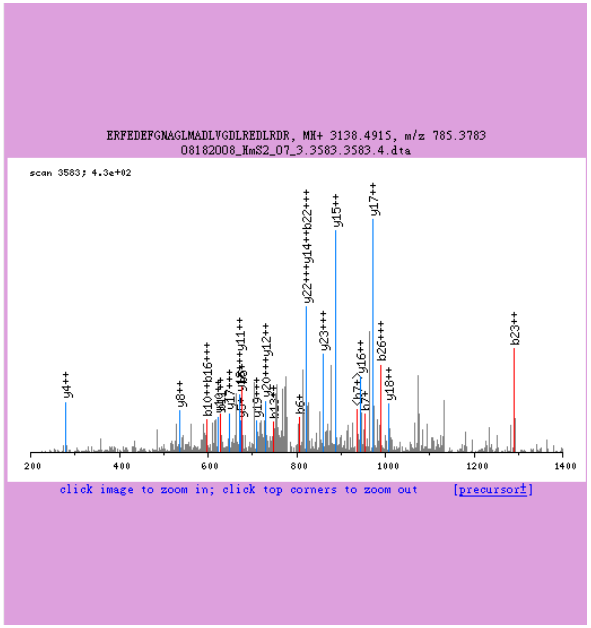
rrnAC2470

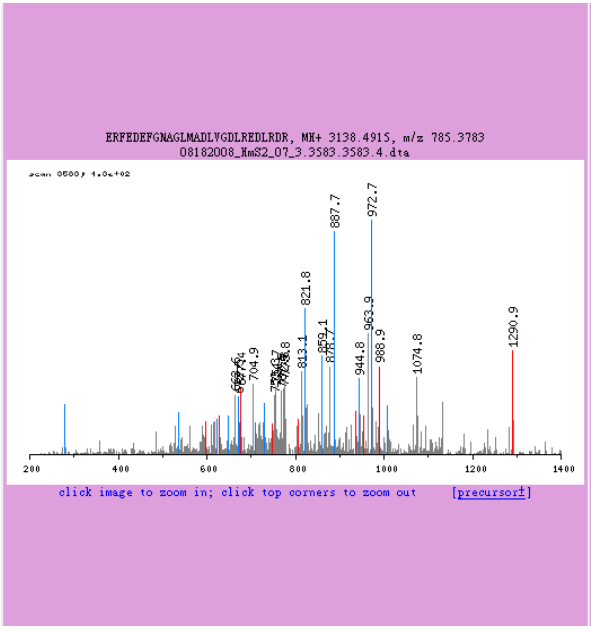
AVNDAAPKDPVTGTR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
0.9998	3	1510.8	1510.8	0.0043	2.088	0.297



b^+	b^{2+}	#	AA	#	y^+	y^{2+}	y^{3+}
72.0449	36.5264	1	A	15			
171.1134	86.0606	2	V	14	1440.7447	720.8763	**480.9201**
285.1563	143.0821	3	N	13	1341.6763	**671.3420**	**447.8973**
400.1832	200.5955	4	D	12	1227.6333	**614.3206**	409.8830
471.2203	236.1141	5	A	11	1112.6064	556.8071	371.5407
542.2575	271.6326	6	A	10	1041.5693	**521.2886**	347.8616
639.3102	320.1590	7	P	9	970.5322	**485.7700**	324.1826
767.4052	384.2065	8	K	8	873.4794	437.2436	291.8317
882.4321	**441.7200**	9	D	7	745.3844	373.1961	249.1334
979.4849	490.2464	10	P	6	**630.3575**	315.6827	210.7910
1078.5533	**539.7806**	11	V	5	533.3047	267.1563	178.4401
1179.6010	590.3044	12	T	4	**434.2363**	217.6221	145.4173
1236.6224	618.8151	13	G	3	**333.1886**	167.0982	111.7348
1337.6701	669.3390	14	T	2	276.1672	138.5875	92.7276
		15	R	1	175.1195	88.0637	59.0451



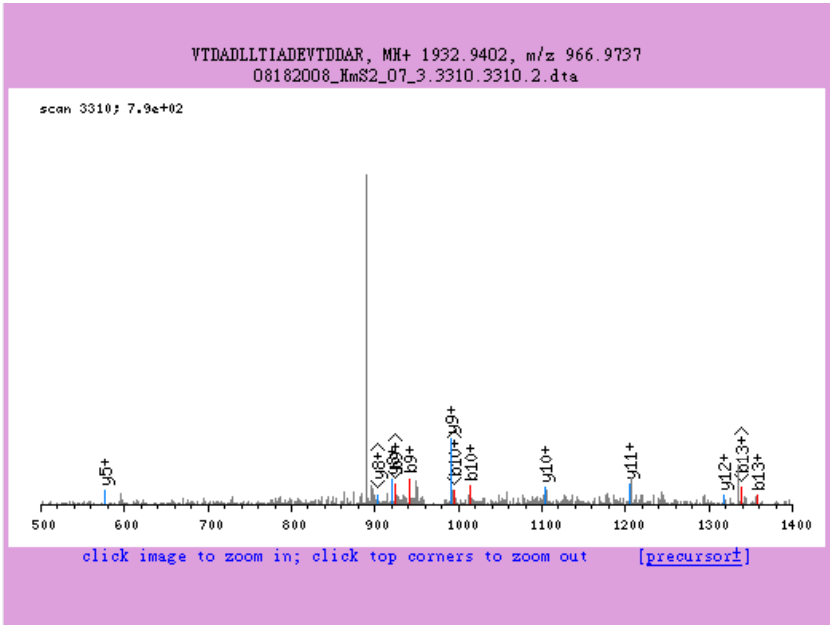


b^+	b^{2+}	b^{3+}	#	AA	#	y^+	y^{2+}	y^{3+}
130.0504	65.5291	44.0220	1	E	27			
286.1515	143.5797	96.0557	2	R	26	3009.4489	1505.2283	1003.8215
433.2199	217.1139	145.0785	3	F	25	2853.3477	1427.1778	951.7878
562.2625	281.6352	188.0927	4	E	24	2706.2793	1353.6436	902.7650
677.2895	339.1487	226.4350	5	D	23	2577.2367	1289.1223	**859.7508**
806.3321	403.6699	269.4492	6	E	22	2462.2098	1231.6088	**821.4085**
933.4003	477.2042	316.4720	7	F	21	2333.1672	1167.0873	778.3943
1010.4220	505.7149	337.4792	8	G	20	2186.0988	1093.5533	**729.3715**
1124.4649	562.7364	375.4935	9	N	19	2129.0773	1065.0426	**710.3643**
1195.5020	**598.2549**	399.1725	10	A	18	2015.0344	**1008.0211**	**672.3500**
1252.5235	**626.7656**	418.1797	11	G	17	1943.9973	**972.5026**	**648.6710**
1365.6075	683.3077	455.8744	12	L	16	1886.9758	**943.9918**	629.6638
1496.6480	**748.8279**	499.5546	13	M	15	1773.8918	**887.4498**	591.9691
1567.6851	784.3465	523.2336	14	A	14	1642.8513	**821.9295**	548.2890
1682.7121	841.8599	561.5759	15	D	13	1571.8142	786.4110	524.6099
1795.7961	898.4020	**599.2706**	16	L	12	1456.7872	**728.8975**	486.2676
1894.8645	947.9362	632.2934	17	V	11	1343.7032	**672.3555**	448.5729
1951.8860	976.4469	651.3006	18	G	10	1244.6347	**622.8213**	415.5501
2066.9129	1033.9604	689.6429	19	D	9	1187.6133	594.3105	396.5430
2179.9970	1090.5024	727.3376	20	L	8	1072.5863	**536.7971**	358.2007
2336.0981	1168.5530	779.3713	21	R	7	959.5023	480.2550	320.5060
2465.1407	1233.0743	**822.3855**	22	E	6	803.4012	402.2045	268.4723
2580.1677	**1290.5877**	860.7278	23	D	5	**674.3586**	337.6832	225.4581
2693.2517	1347.1298	898.4225	24	L	4	559.3316	**280.1697**	187.1158
2849.3528	1425.1803	950.4562	25	R	3	446.2476	223.6277	149.4211
2964.3798	1482.6938	**988.7985**	26	D	2	290.1464	145.5771	97.3874
			27	R	1	175.1195	88.0637	59.0451

rrnAC1709

ERFEDEFGNAGLMADLVGDLREDLRDR

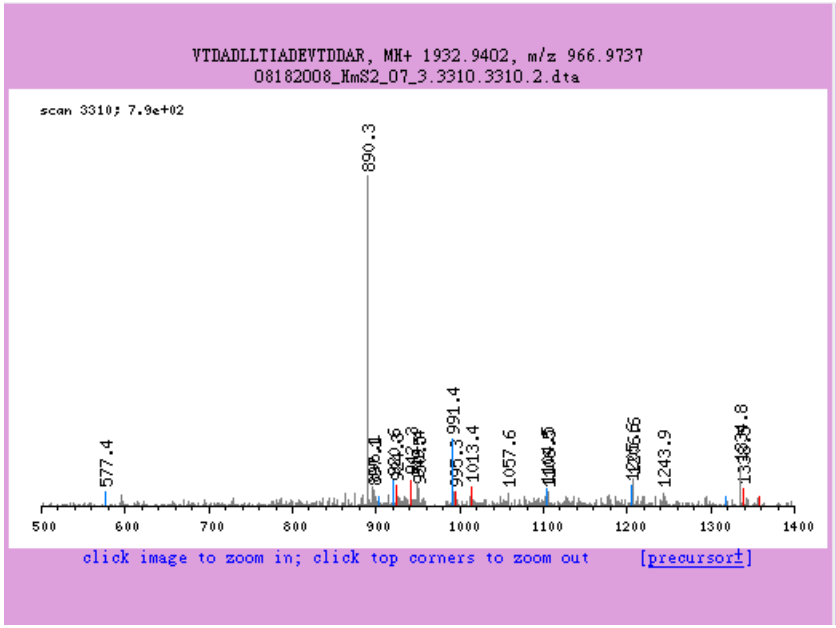
Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
0.9955	4	3137.5	3137.5	0.0067	3.713	0.108



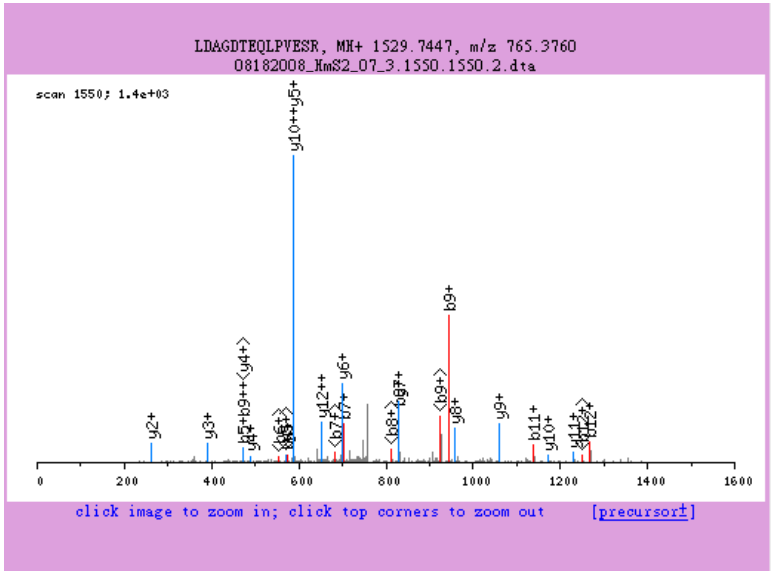
rrnAC1690

VTDADLLTIADEVTDDAR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	2	1931.9	1931.9	0.0059	2.769	0.358



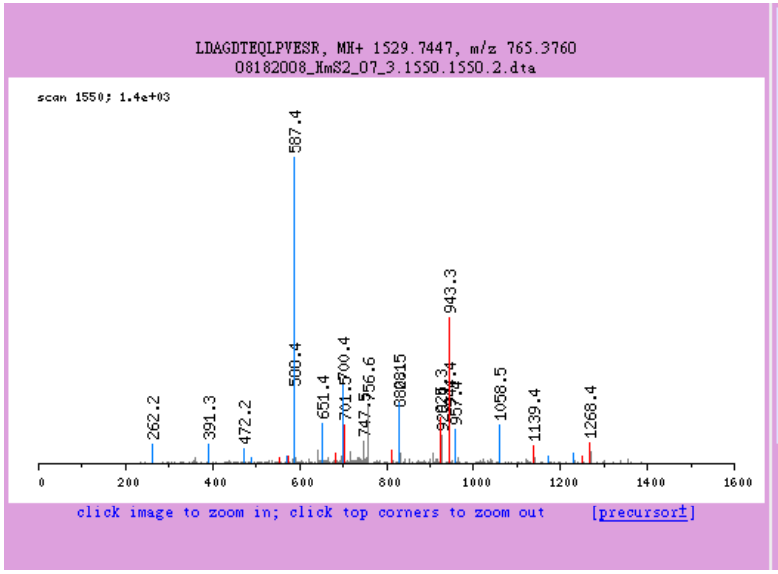
b^+	#	AA	#	y^+	y^{2+}
100.0762	1	V	18		
201.1239	2	T	17	1833.8718	917.4398
316.1509	3	D	16	1732.8241	866.9160
387.1880	4	A	15	1617.7972	809.4025
502.2149	5	D	14	1546.7601	773.8839
615.2990	6	L	13	1431.7331	716.3705
728.3830	7	L	12	**1318.6490**	659.8284
829.4307	8	T	11	**1205.5650**	603.2864
942.5148	9	I	10	**1104.5173**	552.7626
1013.5519	10	A	9	**991.4332**	496.2205
1128.5788	11	D	8	**920.3961**	460.7020
1257.6214	12	E	7	805.3692	403.1885
1356.6899	13	V	6	676.3266	338.6672
1457.7375	14	T	5	**577.2582**	289.1330
1572.7645	15	D	4	476.2105	238.6092
1687.7914	16	D	3	361.1836	181.0957
1758.8285	17	A	2	246.1566	123.5822
	18	R	1	175.1195	88.0637



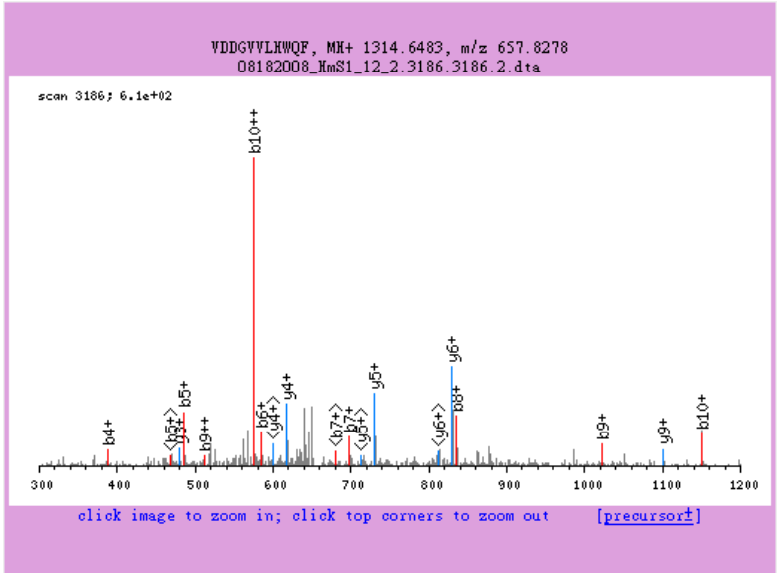
rrnAC1479

LDAGDTEQLPVESR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	2	1528.7	1528.7	0.001	4.362	0.429



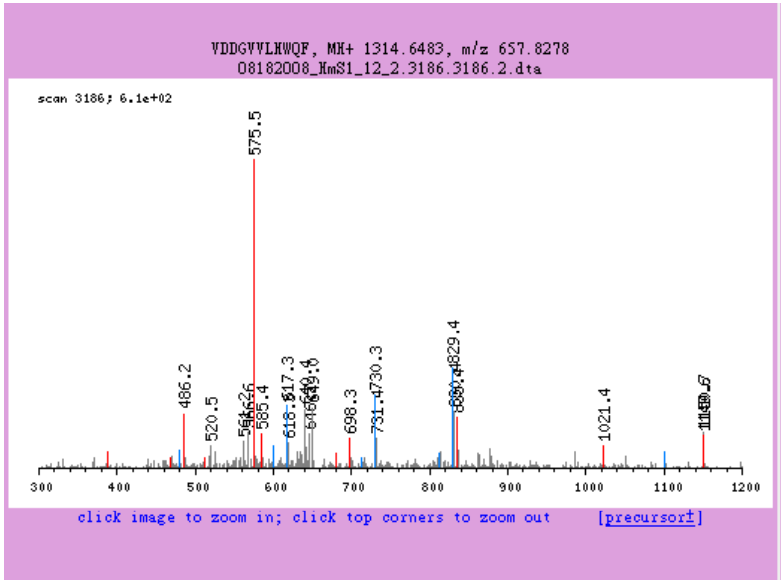
b^+	b^{2+}	#	AA	#	y^+	y^{2+}
114.0919	57.5499	1	L	14		
229.1188	115.0633	2	D	13	1416.6607	708.8343
300.1559	150.5819	3	A	12	1301.6337	**651.3208**
357.1774	179.0926	4	G	11	**1230.5966**	615.8022
472.2044	236.6061	5	D	10	**1173.5752**	**587.2915**
573.2520	287.1299	6	T	9	**1058.5482**	529.7780
702.2946	351.6512	7	E	8	**957.5005**	479.2542
830.3532	415.6805	8	Q	7	**828.4579**	414.7329
943.4373	**472.2225**	9	L	6	**700.3994**	350.7036
1040.4900	520.7489	10	P	5	**587.3153**	294.1616
1139.5584	570.2831	11	V	4	**490.2625**	245.6352
1268.6010	634.8044	12	E	3	**391.1941**	196.1010
1355.6331	678.3204	13	S	2	**262.1515**	131.5797
		14	R	1	175.1195	88.0637



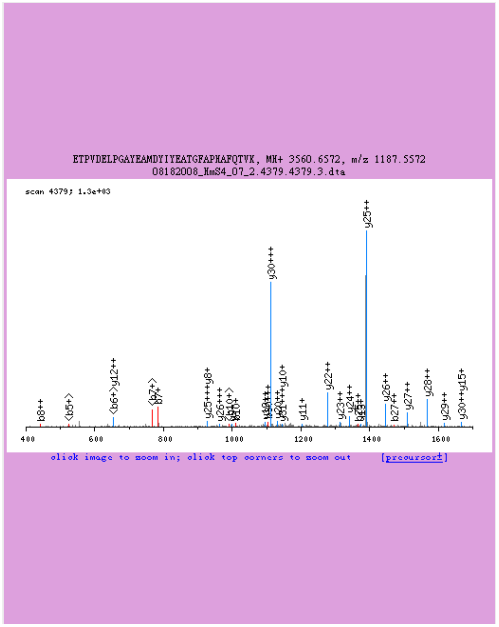
rrnAC1131

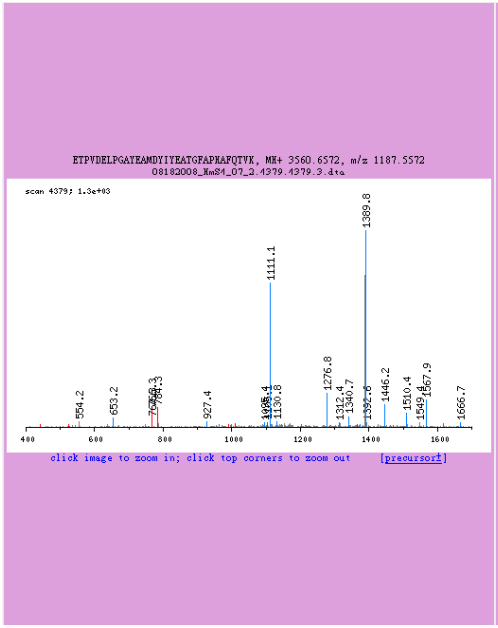
VDDGVVLHWQF

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	2	1313.6	1313.6	0.0034	3.478	0.365



b^+	b^{2+}	#	AA	#	y^+	y^{2+}
100.0762	50.5420	1	V	11		
215.1032	108.0555	2	D	10	1215.5798	608.2938
330.1301	165.5690	3	D	9	**1100.5529**	550.7804
387.1516	194.0797	4	G	8	985.5260	493.2669
486.2200	243.6139	5	V	7	928.5045	464.7562
585.2884	293.1481	6	V	6	**829.4361**	415.2220
698.3725	349.6902	7	L	5	**730.3677**	365.6877
835.4314	418.2196	8	H	4	**617.2836**	309.1457
1021.5107	**511.2593**	9	W	3	**480.2247**	240.6163
1149.5693	**575.2886**	10	Q	2	294.1454	147.5766
		11	F	1	166.0868	83.5473



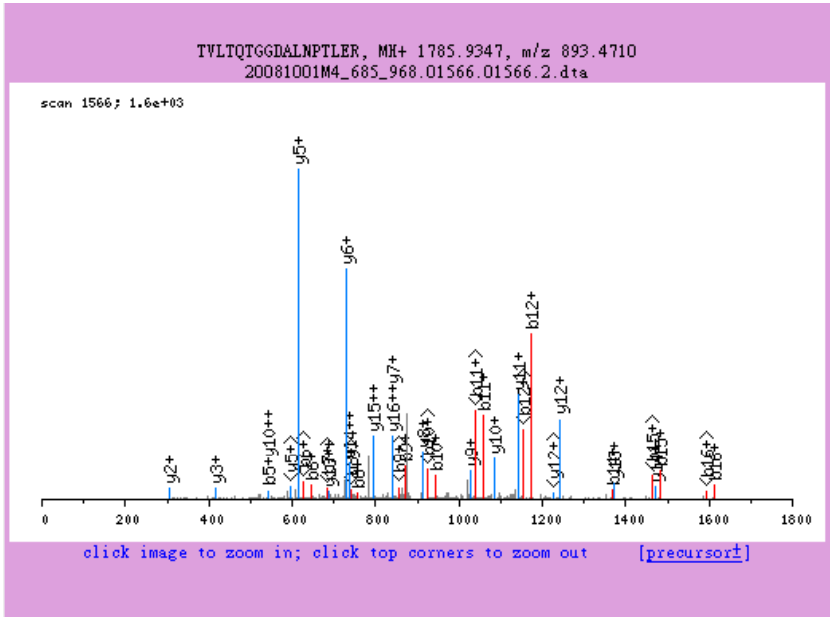


b+	b2+	b3+	#	AA	#	y+	y2+	y3+
130.0504	65.5291	44.0220	1	E	32			
231.0981	116.0530	77.7046	2	T	31	3431.6146	1716.3112	**1144.5434**
328.1509	164.5793	110.0555	3	P	30	3330.5669	**1665.7874**	**1110.8609**
427.2193	214.1135	143.0783	4	V	29	3233.5141	**1617.2610**	1078.5099
542.2462	271.6270	181.4206	5	D	28	3134.4457	**1567.7268**	1045.4871
671.2888	336.1483	224.4348	6	E	27	3019.4188	**1510.2133**	1007.1448
784.3729	392.6903	262.1295	7	L	26	2890.3762	**1445.6920**	**964.1306**
881.4256	**441.2167**	294.4804	8	P	25	2777.2921	**1389.1500**	**926.4359**
938.4471	469.7275	313.4876	9	G	24	2680.2394	**1340.6236**	894.0850
1009.4842	505.2460	337.1666	10	A	23	2623.2179	**1312.1129**	875.0779
1172.5475	586.7777	391.5211	11	Y	22	2552.1808	**1276.5943**	851.3988
1301.5901	651.2990	434.5353	12	E	21	2389.1175	1195.0626	797.0444
1372.6273	686.8175	458.2143	13	A	20	2260.0749	**1130.5413**	754.0302
1503.6677	752.3378	501.8945	14	M	19	2189.0378	**1095.0228**	730.3511
1618.6947	809.8513	540.2368	15	D	18	2057.9973	1029.5025	686.6710
1781.7580	891.3829	594.5912	16	Y	17	1942.9703	971.9891	648.3287
1894.8421	947.9249	632.2859	17	I	16	1779.9070	890.4574	593.9742
2057.9054	1029.4566	686.6404	18	Y	15	**1666.8229**	833.9154	556.2795
2186.9480	1093.9779	729.6545	19	E	14	1503.7596	752.3837	501.9251
2257.9851	1129.4965	753.3336	20	A	13	**1374.7170**	687.8624	458.9109
2359.0328	1180.0203	787.0161	21	T	12	1303.6799	**652.3439**	435.2318
2416.0542	1208.5310	806.0233	22	G	11	**1202.6322**	601.8200	401.5493
2563.1227	1282.0652	855.0461	23	F	10	**1145.6108**	573.3093	382.5421
2634.1598	1317.5838	878.7251	24	A	9	**998.5423**	499.7751	333.5193
2731.2125	**1366.1102**	911.0761	25	P	8	**927.5052**	464.2565	309.8403
2868.2715	1434.6396	956.7624	26	H	7	830.4525	415.7301	277.4894
2939.3086	**1470.1582**	980.4414	27	A	6	693.3936	347.2007	231.8031
3086.3770	1543.6924	1029.4642	28	F	5	622.3564	311.6821	208.1240
3214.4356	1607.7217	1072.1504	29	Q	4	475.2880	238.1479	159.1012
3315.4832	1658.2455	**1105.8330**	30	T	3	347.2294	174.1186	116.4150
3414.5517	1707.7797	1138.8558	31	V	2	246.1818	123.5948	82.7325
			32	K	1	147.1134	74.0606	49.7097

rrnAC0917

ETPVDELPGAYEAMDYIYEATGFAPHAFQTVK

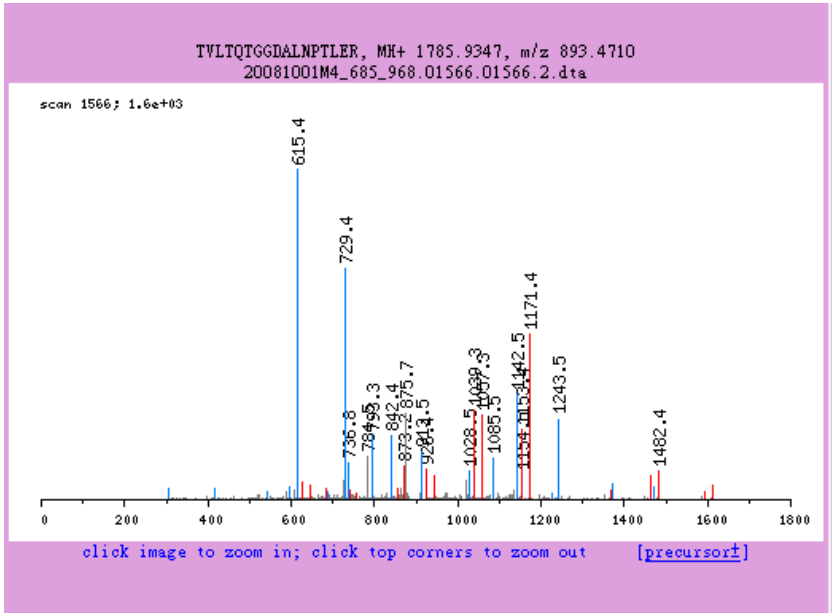
Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	3	3559.6	3560.6	0.9899	3.586	0.363



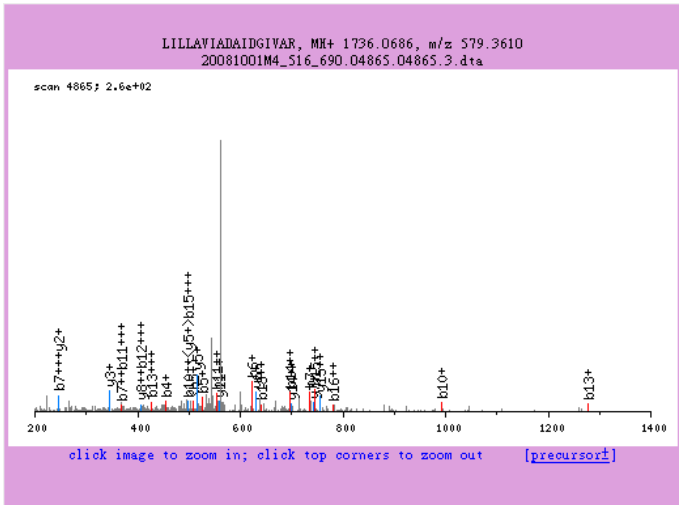
rrnAC0845

TVLTQTGGDALNPTLER

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	2	1784.9	1784.9	0.000152	4.429	0.512



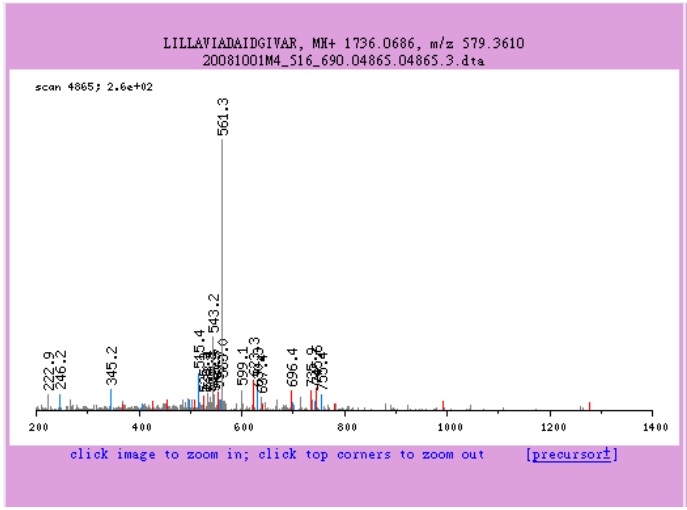
b^+	#	AA	#	y^+	y^{2+}
102.0555	1	T	17		
201.1239	2	V	16	1684.8870	**842.9474**
314.2080	3	L	15	1585.8186	**793.4132**
415.2557	4	T	14	**1472.7345**	**736.8712**
543.3142	5	Q	13	**1371.6868**	**686.3473**
644.3619	6	T	12	**1243.6283**	622.3180
701.3834	7	G	11	**1142.5806**	571.7942
758.4048	8	G	10	**1085.5591**	**543.2835**
873.4318	9	D	9	**1028.5376**	514.7727
944.4689	10	A	8	**913.5107**	457.2593
1057.5530	11	L	7	**842.4736**	421.7407
1171.5959	12	N	6	**729.3895**	365.1987
1268.6487	13	P	5	**615.3466**	308.1772
1369.6963	14	T	4	518.2938	259.6508
1482.7804	15	L	3	**417.2462**	209.1270
1611.8230	16	E	2	**304.1621**	152.5850
	17	R	1	175.1195	88.0637



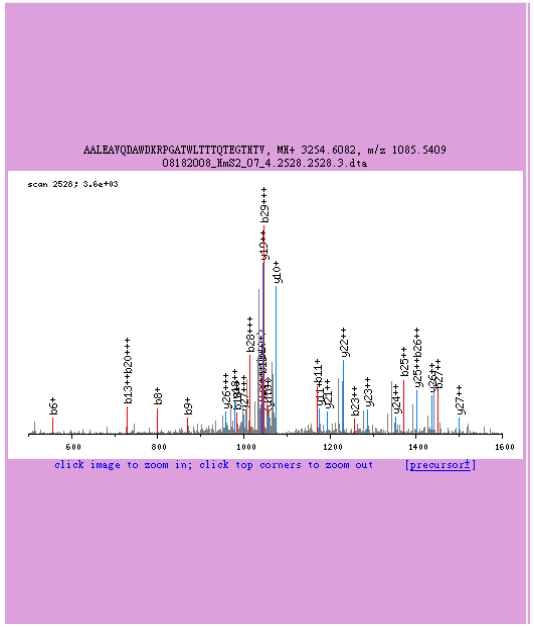
rrnAC0788

LILLAVIADAIDGIVAR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
0.9985	3	1735.1	1735.1	-0.0004	2.871	0.143



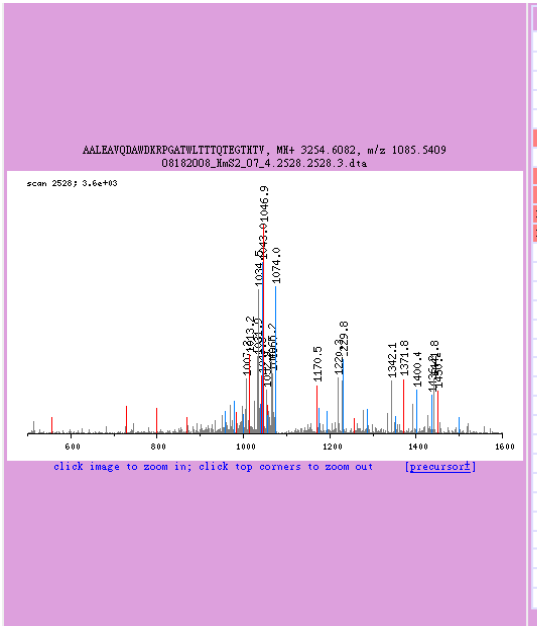
b^+	b^{2+}	b^{3+}	#	AA	#	y^+	y^{2+}	y^{3+}
114.0919	57.5499	38.7025	1	L	17			
227.1760	114.0919	76.3972	2	I	16	1622.9845	811.9962	541.6667
340.2600	170.6339	114.0919	3	L	15	1509.9005	**755.4541**	503.9720
453.3441	227.1760	151.7866	4	L	14	1396.8164	**698.9121**	466.2773
524.3812	262.6945	175.4656	5	A	13	1283.7323	642.3701	428.5827
623.4496	312.2287	208.4884	6	V	12	1212.6952	606.8515	404.9036
736.5337	**368.7707**	**246.1831**	7	I	11	1113.6268	**557.3173**	371.8808
807.5708	404.2893	269.8621	8	A	10	1000.5427	500.7753	334.1861
922.5977	461.8028	308.2045	9	D	9	929.5056	465.2567	310.5071
993.6348	**497.3213**	331.8835	10	A	8	814.4787	**407.7433**	272.1648
1106.7189	**553.8634**	**369.5782**	11	I	7	**743.4416**	372.2247	248.4857
1221.7459	611.3768	**407.9205**	12	D	6	**630.3575**	315.6827	210.7910
1278.7673	**639.8876**	**426.9277**	13	G	5	**515.3306**	258.1692	172.4487
1391.8514	**696.4296**	464.6223	14	I	4	458.3091	229.6585	153.4416
1490.9198	**745.9638**	**497.6451**	15	V	3	**345.2250**	173.1164	115.7469
1561.9569	**781.4824**	521.3242	16	A	2	**246.1566**	123.5822	82.7241
			17	R	1	175.1195	88.0637	59.0451



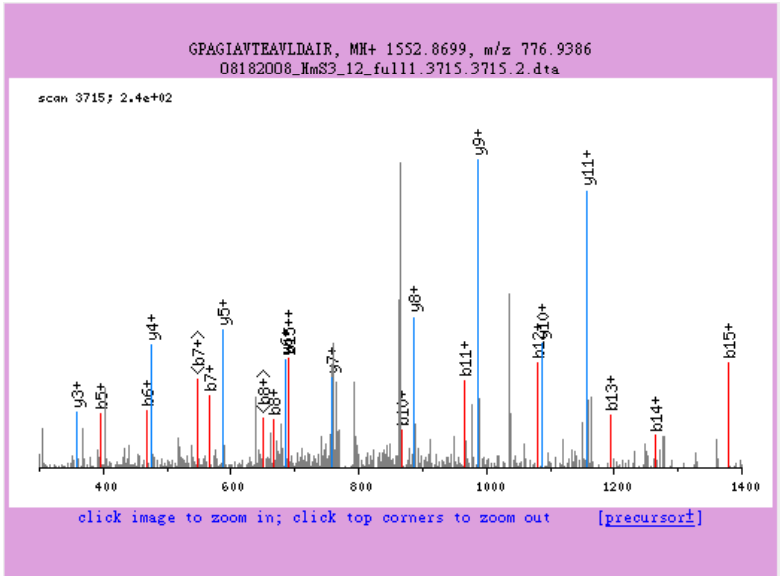
rrnAC0753

AALEAVQDAWDKRPGATWLTTTQTEGTHTV

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	3	3253.6	3254.6	1.0179	5.036	0.349



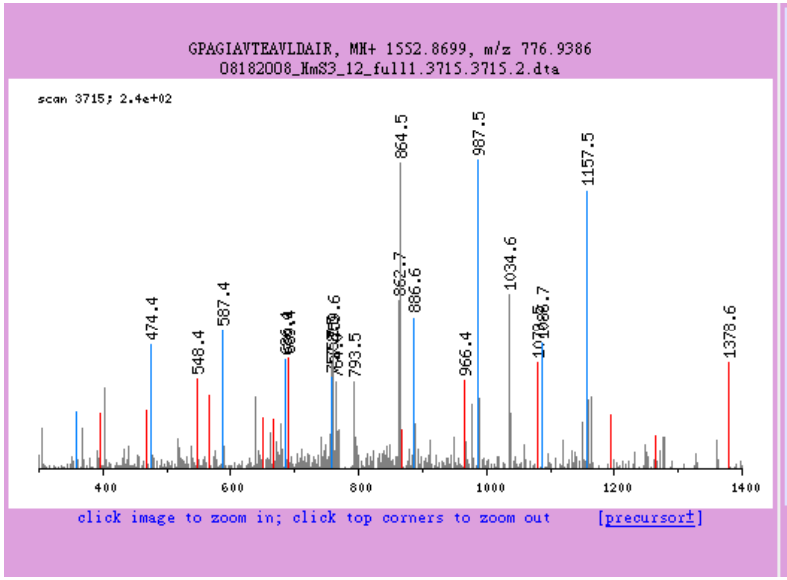
b^+	b^{2+}	b^{3+}	#	AA	#	y^+	y^{2+}	y^{3+}
72.0449	36.5264	24.6869	1	A	30			
143.0821	72.0449	48.3659	2	A	29	3183.5711	1592.2895	1061.8622
256.1661	128.5870	86.0606	3	L	28	3112.5340	1556.7709	**1038.1832**
385.2087	193.1083	129.0748	4	E	27	2999.4499	**1500.2289**	**1000.4885**
456.2458	228.6268	152.7538	5	A	26	2870.4073	**1435.7076**	**957.4743**
555.3142	278.1610	185.7766	6	V	25	2799.3702	**1400.1890**	933.7953
683.3728	342.1903	228.4628	7	Q	24	2700.3018	**1350.6548**	900.7725
798.3998	399.7038	266.8051	8	D	23	2572.2432	**1286.6255**	858.0863
869.4369	435.2223	290.4842	9	A	22	2457.2163	**1229.1120**	819.7440
1055.5162	528.2620	352.5106	10	W	21	2386.1791	**1193.5935**	796.0649
1170.5431	585.7755	390.8529	11	D	20	2200.0998	1100.5538	734.0385
1298.6381	649.8230	433.5512	12	K	19	2085.0729	**1043.0404**	695.6962
1454.7392	**727.8735**	485.5850	13	R	18	1956.9779	**978.9929**	652.9979
1551.7920	776.3999	517.9359	14	P	17	1800.8768	900.9423	600.9642
1608.8134	804.9106	536.9430	15	G	16	1703.8241	852.4159	568.6132
1679.8505	840.4292	560.6221	16	A	15	1646.8026	823.9052	549.6061
1780.8982	890.9530	594.3046	17	T	14	1575.7655	788.3867	525.9270
1966.9775	**983.9927**	656.3311	18	W	13	1474.7178	737.8628	492.2445
2080.0616	**1040.5347**	694.0257	19	L	12	1288.6385	644.8232	430.2180
2181.1093	1091.0586	**727.7083**	20	T	11	**1175.5544**	588.2811	392.5234
2282.1570	1141.5824	761.3909	21	T	10	**1074.5067**	537.7573	358.8408
2383.2046	1192.1062	795.0734	22	T	9	973.4591	487.2334	325.1582
2511.2632	**1256.1355**	837.7596	23	Q	8	872.4114	436.7096	291.4757
2612.3109	1306.6594	871.4422	24	T	7	744.3528	372.6803	248.7895
2741.3535	**1371.1807**	914.4564	25	E	6	643.3051	322.1565	215.1069
2798.3749	**1399.6914**	933.4635	26	G	5	514.2625	257.6352	172.0927
2899.4226	**1450.2152**	967.1461	27	T	4	457.2411	229.1244	153.0856
3036.4815	1518.7447	**1012.8324**	28	H	3	356.1934	178.6006	119.4030
3137.5292	1569.2685	**1046.5150**	29	T	2	219.1345	110.0712	73.7167
			30	V	1	118.0868	59.5473	40.0342



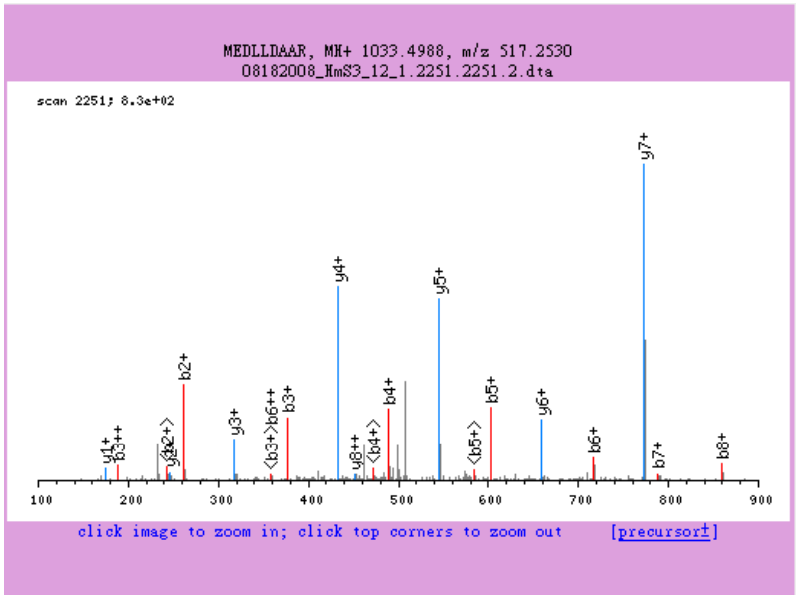
rrnAC0547

GPAGIAVTEAVLDAIR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	2	1551.9	1551.8	-0.0285	4.075	0.258



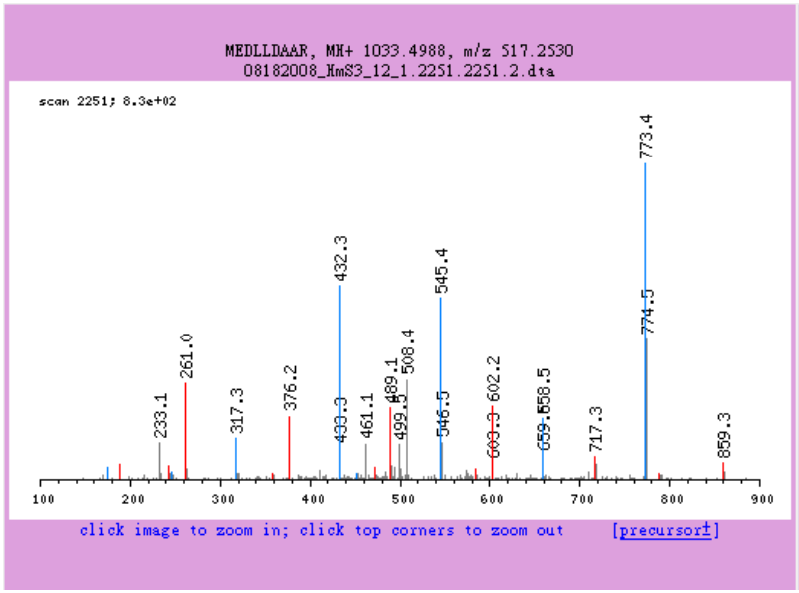
b^+	b^{2+}	#	AA	#	y^+	y^{2+}
58.0293	29.5186	1	G	16		
155.0821	78.0449	2	P	15	1495.8484	748.4281
226.1192	113.5635	3	A	14	1398.7957	699.9017
283.1406	142.0742	4	G	13	1327.7585	664.3832
396.2247	198.6163	5	I	12	1270.7371	635.8725
467.2618	234.1348	6	A	11	**1157.6530**	579.3304
566.3302	283.6690	7	V	10	**1086.6159**	543.8119
667.3779	334.1929	8	T	9	**987.5475**	494.2777
796.4205	398.7142	9	E	8	**886.4998**	443.7538
867.4576	434.2327	10	A	7	**757.4572**	379.2325
966.5260	483.7669	11	V	6	**686.4201**	343.7140
1079.6101	540.3090	12	L	5	**587.3517**	294.1798
1194.6370	597.8224	13	D	4	**474.2676**	237.6377
1265.6741	633.3410	14	A	3	**359.2407**	180.1243
1378.7582	**689.8830**	15	I	2	288.2036	144.6057
		16	R	1	175.1195	88.0637



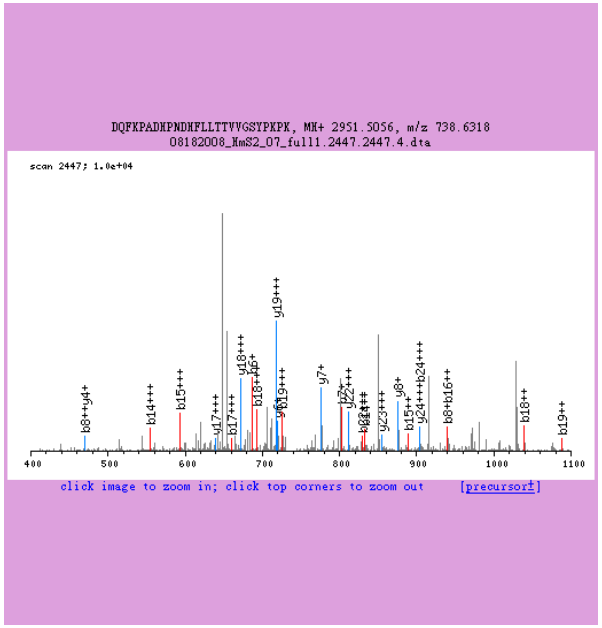
rrnAC0446

MEDLLDAAR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
0.9996	2	1032.5	1032.5	0.0004	3.1	0.294



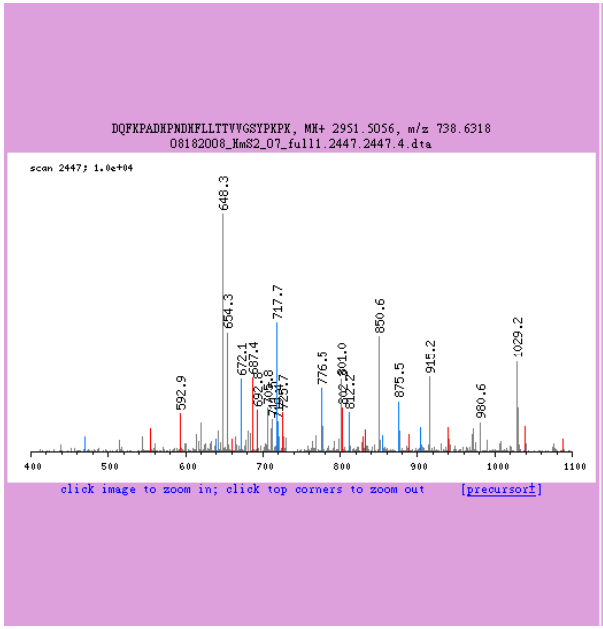
b^+	b^{2+}	#	AA	#	y^+	y^{2+}
132.0483	66.5281	1	M	9		
261.0909	131.0494	2	E	8	902.4583	451.7331
376.1178	188.5628	3	D	7	773.4157	387.2118
489.2019	245.1049	4	L	6	658.3888	329.6983
602.2860	301.6469	5	L	5	545.3047	273.1563
717.3129	359.1604	6	D	4	432.2207	216.6142
788.3500	394.6789	7	A	3	317.1937	159.1008
859.3871	430.1975	8	A	2	246.1566	123.5822
		9	R	1	175.1195	88.0637



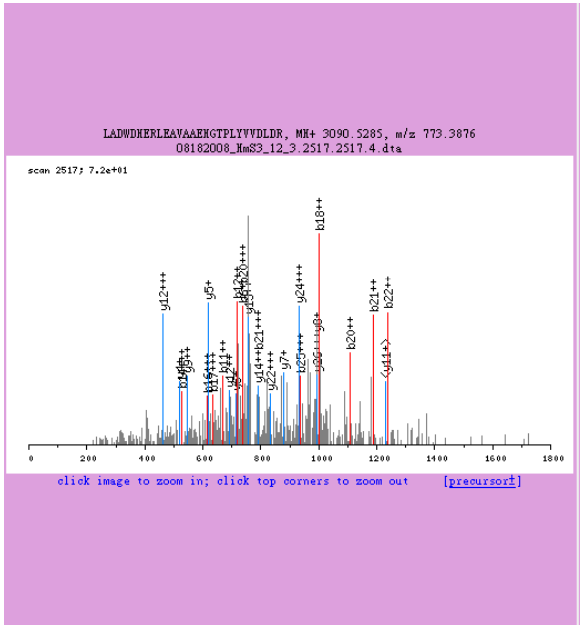
rrnAC0254

DQFKPADHPNDHFLLTTVVGSYPKPK

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
0.9999	4	2950.5	2951.5	0.9933	3.425	0.314



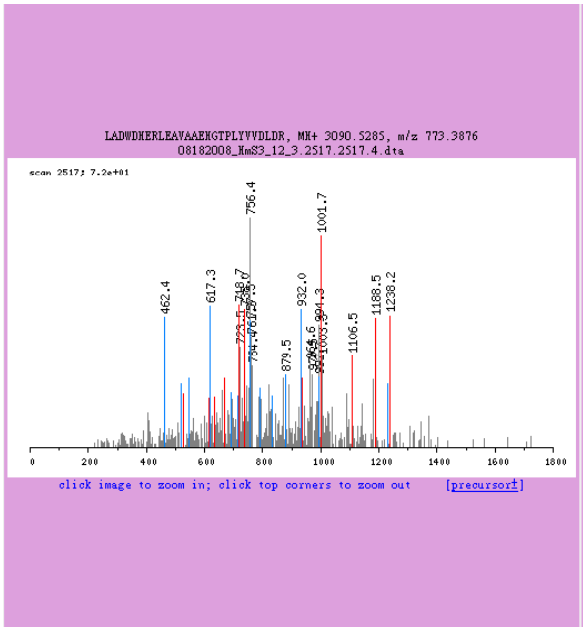
b^+	b^{2+}	b^{3+}	#	AA	#	y^+	y^{2+}	y^{3+}
116.0348	58.5213	39.3501	1	D	26			
244.0933	122.5506	82.0363	2	Q	25	2836.4786	1418.7432	946.1648
391.1618	196.0848	131.0591	3	F	24	2708.4200	1354.7139	**903.4786**
519.2567	260.1323	173.7575	4	K	23	2561.3516	1281.1797	**854.4558**
616.3095	308.6587	206.1084	5	P	22	2433.2567	1217.1322	**811.7574**
687.3466	344.1772	229.7874	6	A	21	2336.2039	1168.6059	779.4065
802.3735	401.6907	268.1297	7	D	20	2265.1668	1133.0873	755.7275
939.4325	**470.2201**	313.8160	8	H	19	2150.1398	1075.5738	**717.3852**
1036.4852	518.7465	346.1670	9	P	18	2013.0809	1007.0444	**671.6989**
1150.5281	575.7680	384.1813	10	N	17	1916.0282	958.5180	**639.3479**
1265.5551	633.2815	422.5236	11	D	16	1801.9852	901.4965	601.3336
1402.6140	701.8109	468.2099	12	H	15	1686.9583	843.9831	562.9913
1549.6824	775.3451	517.2327	13	F	14	1549.8994	775.4536	517.3050
1662.7665	**831.8872**	**554.9274**	14	L	13	1402.8310	701.9194	468.2822
1775.8505	**888.4292**	**592.6221**	15	L	12	1289.7469	645.3774	430.5875
1876.8982	**938.9530**	626.3046	16	T	11	1176.6628	588.8353	392.8928
1977.9459	989.4769	**659.9872**	17	T	10	1075.6152	538.3115	359.2103
2077.0143	**1039.0111**	**693.0100**	18	V	9	974.5675	487.7877	325.5277
2176.0827	**1088.5453**	**726.0328**	19	V	8	**875.4991**	438.2535	292.5049
2233.1042	1117.0560	745.0399	20	G	7	**776.4307**	388.7192	259.4821
2320.1362	1160.5720	774.0506	21	S	6	**719.4092**	360.2085	240.4750
2483.1995	1242.1037	**828.4051**	22	Y	5	632.3772	316.6925	211.4643
2580.2523	1290.6301	860.7560	23	P	4	**469.3138**	235.1608	157.1098
2708.3473	1354.6776	**903.4543**	24	K	3	372.2611	186.6345	124.7589
2805.4000	1403.2039	935.8052	25	P	2	244.1661	122.5870	82.0606
			26	K	1	147.1134	74.0606	49.7097



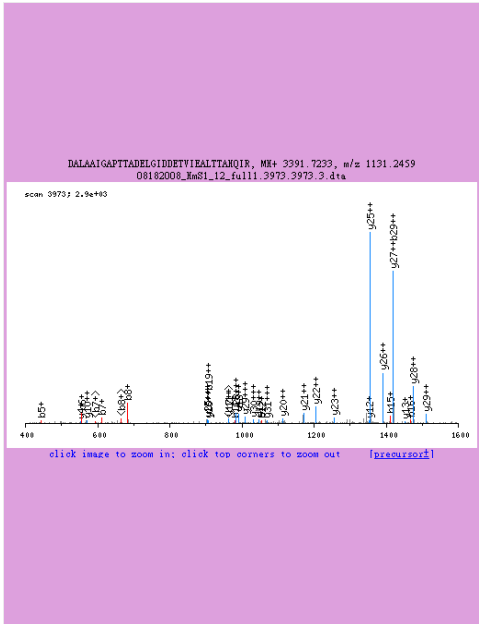
rrnAC0198

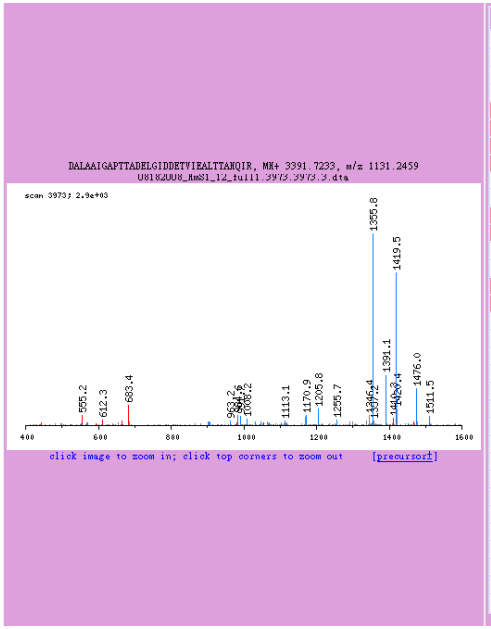
LADWDHERLEAVAAEHGTPLYVVDLDR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	4	3089.5	3091.5	2.0104	3.64	0.228



b^+	b^{2+}	b^{3+}	#	AA	#	y^+	y^{2+}	y^{3+}
114.0919	57.5499	38.7025	1	L	27			
185.1290	93.0684	62.3816	2	A	26	2977.4444	1489.2261	**993.1534**
300.1559	150.5819	100.7239	3	D	25	2906.4073	1453.7076	969.4743
486.2353	243.6215	162.7503	4	W	24	2791.3804	1396.1941	**931.1320**
601.2622	301.1350	201.0926	5	D	23	2605.3011	1303.1544	869.1056
738.3211	369.6645	246.7789	6	H	22	2490.2741	1245.6410	**830.7633**
867.3637	434.1858	289.7931	7	E	21	2353.2152	1177.1115	785.0769
1023.4648	512.2363	341.8268	8	R	20	2224.1726	1112.5902	742.0628
1136.5489	568.7784	379.5215	9	L	19	2068.0715	1034.5397	690.0290
1265.5915	633.2997	422.5357	10	E	18	1954.9874	977.9976	652.3344
1336.6286	**668.8182**	446.2147	11	A	17	1825.9448	913.4763	609.3202
1435.6970	**718.3524**	479.2376	12	V	16	1754.9077	877.9578	585.6411
1506.7341	753.8710	502.9166	13	A	15	1655.8393	828.4236	552.6183
1577.7712	789.3895	**526.5956**	14	A	14	1584.8022	**792.9050**	528.9393
1706.8138	853.9108	569.6098	15	E	13	1513.7651	**757.3865**	505.2602
1843.8727	922.4403	**615.2961**	16	H	12	1384.7225	**692.8652**	**462.2460**
1900.8942	950.9510	**634.3033**	17	G	11	1247.6636	624.3357	416.5597
2001.9419	**1001.4749**	667.9858	18	T	10	1190.6421	595.8250	397.5526
2098.9946	1050.0012	700.3368	19	P	9	1089.5944	**545.3011**	363.8700
2212.0787	**1106.5433**	**738.0315**	20	L	8	**992.5417**	496.7747	331.5191
2375.1420	**1188.0749**	**792.3859**	21	Y	7	**879.4576**	440.2327	293.8244
2474.2104	**1237.6091**	825.4087	22	V	6	**716.3943**	358.7011	239.4700
2573.2789	1287.1433	858.4315	23	V	5	**617.3259**	309.1668	206.4472
2688.3058	1344.6568	896.7738	24	D	4	**518.2575**	259.6326	173.4244
2801.3899	1401.1988	**934.4685**	25	L	3	403.2305	202.1192	135.0821
2916.4168	1458.7123	972.8108	26	D	2	290.1464	145.5771	97.3874
			27	R	1	175.1195	88.0637	59.0451



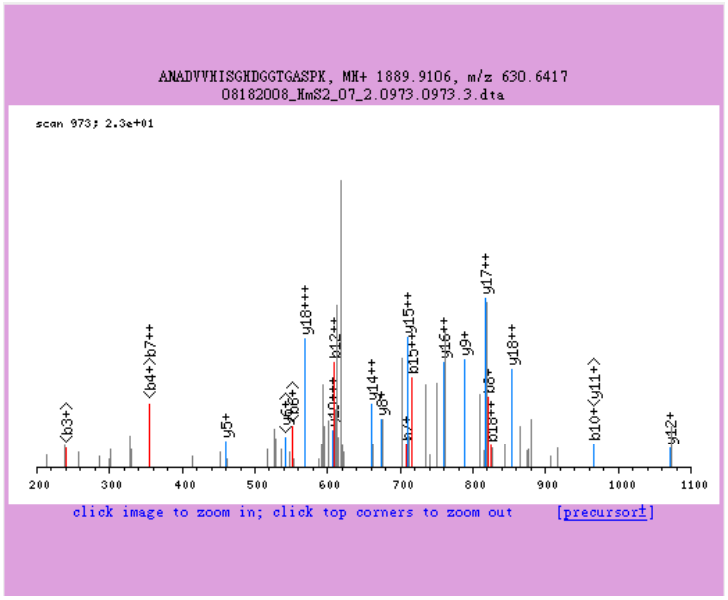


b+	b2+	#	AA	#	y+	y2+	y3+
116.0348	58.5213	1	D	33			
187.0719	94.0399	2	A	32	3276.6963	1638.8521	1092.9040
300.1559	150.5819	3	L	31	3205.6592	1603.3335	**1069.2250**
371.1931	186.1004	4	A	30	3092.5752	1546.7915	**1031.5303**
442.2302	221.6190	5	A	29	3021.5380	**1511.2729**	**1007.8512**
555.3142	278.1610	6	I	28	2950.5009	**1475.7544**	**984.1722**
612.3357	306.6718	7	G	27	2837.4169	**1419.2123**	946.4775
683.3728	342.1903	8	A	26	2780.3954	**1390.7016**	927.4704
780.4256	390.7167	9	P	25	2709.3583	**1355.1831**	**903.7913**
881.4733	441.2405	10	T	24	2612.3055	1306.6567	871.4404
982.5209	491.7644	11	T	23	2511.2579	**1256.1328**	837.7578
1053.5580	527.2829	12	A	22	2410.2102	**1205.6090**	804.0753
1168.5850	584.7964	13	D	21	2339.1731	**1170.0904**	780.3962
1297.6276	649.3177	14	E	20	2224.1461	**1112.5770**	742.0539
1410.7116	705.8597	15	L	19	2095.1035	**1048.0557**	699.0397
1467.7331	734.3705	16	G	18	1982.0195	**991.5136**	661.3450
1580.8172	790.9125	17	I	17	1924.9980	**963.0029**	642.3379
1695.8441	848.4260	18	D	16	1811.9139	**906.4609**	604.6432
1810.8711	**905.9394**	19	D	15	1696.8870	848.9474	566.3009
1939.9137	970.4607	20	E	14	1581.8600	791.4339	527.9586
2040.9613	1020.9846	21	T	13	**1452.8175**	726.9126	484.9444
2140.0297	1070.5188	22	Y	12	**1351.7698**	676.3888	451.2618
2253.1138	1127.0608	23	I	11	1252.7014	626.8546	418.2390
2382.1564	1191.5821	24	E	10	1139.6173	**570.3126**	380.5443
2453.1935	1227.1007	25	A	9	1010.5747	505.7913	337.5301
2566.2776	1283.6427	26	L	8	939.5376	470.2727	313.8511
2667.3253	1334.1665	27	T	7	826.4535	413.7307	276.1564
2768.3729	1384.6904	28	T	6	725.4058	363.2068	242.4738
2839.4101	**1420.2089**	29	A	5	624.3582	312.6830	208.7913
2976.4690	1488.7384	30	H	4	**553.3211**	277.1644	185.1122
3104.5275	1552.7677	31	Q	3	416.2621	208.6350	139.4259
3217.6116	1609.3097	32	I	2	288.2036	144.6057	96.7397
		33	R	1	175.1195	88.0637	59.0451

rrnAC0175

DALAAIGAPTTADELGIDDETVIEALTTAHQIR

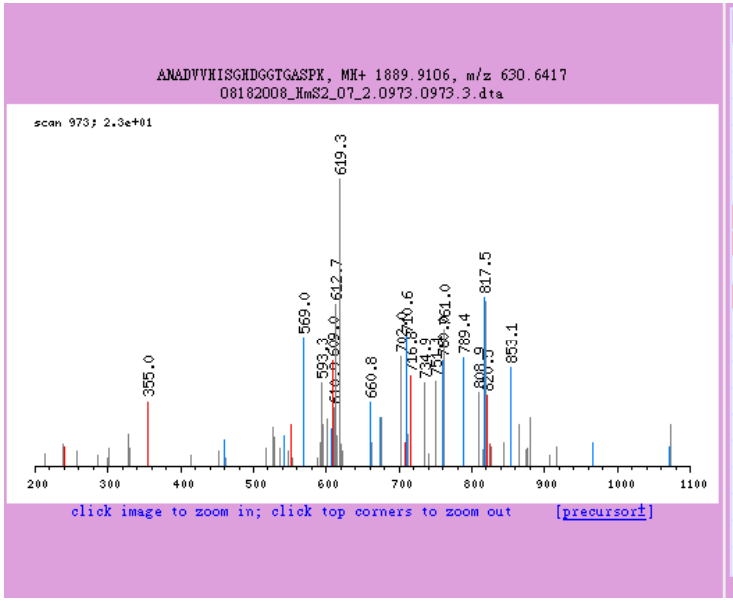
Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	3	3390.7	3392.7	2.0229	3.441	0.341



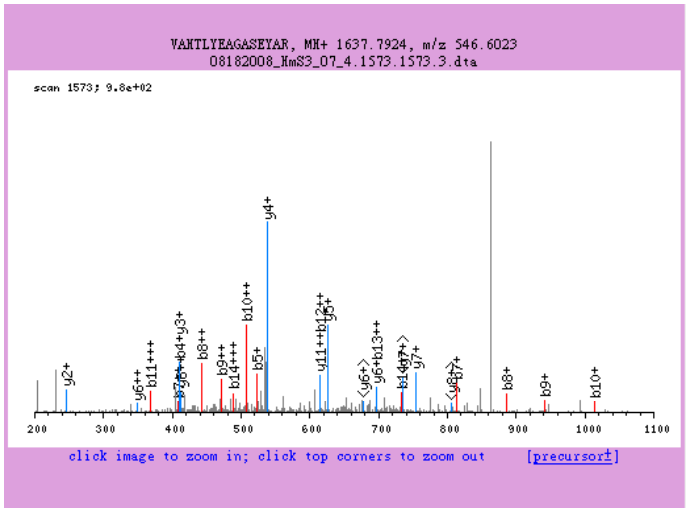
rrnAC0169

ANADVVHISGHDGGTGASPK

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	3	1888.9	1889.9	1.0033	2.662	0.283



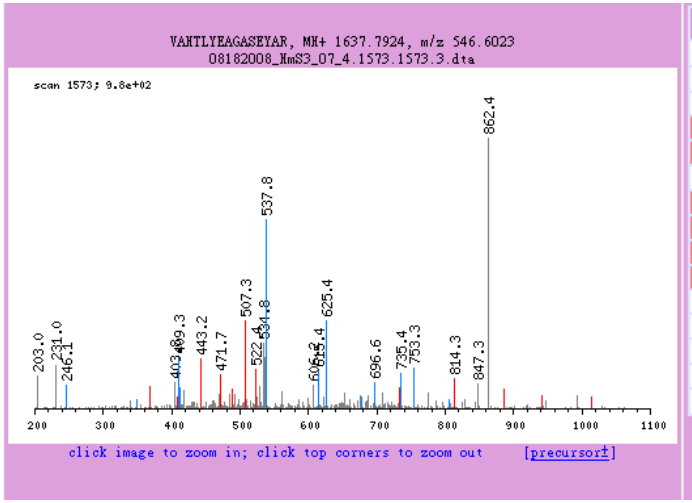
b^+	b^{2+}	#	AA	#	y^+	y^{2+}	y^{3+}
72.0449	36.5264	1	A	20			
186.0879	93.5478	2	N	19	1818.8735	909.9406	**606.9630**
257.1250	129.0664	3	A	18	1704.8305	**852.9192**	**568.9487**
372.1519	186.5799	4	D	17	1633.7934	**817.4006**	545.2697
471.2203	236.1141	5	V	16	1518.7665	**759.8872**	506.9274
570.2888	285.6483	6	V	15	1419.6981	**710.3529**	473.9046
707.3477	**354.1777**	7	H	14	1320.6297	**660.8187**	440.8818
820.4317	410.7198	8	I	13	1183.5707	592.2893	395.1955
907.4638	454.2358	9	S	12	**1070.4867**	535.7473	357.5008
964.4852	482.7465	10	G	11	983.4546	492.2312	328.4901
1101.5441	551.2760	11	H	10	926.4332	463.7205	309.4829
1216.5711	**608.7894**	12	D	9	**789.3743**	395.1910	263.7966
1273.5925	637.3002	13	G	8	**674.3473**	337.6776	225.4543
1330.6140	665.8109	14	G	7	617.3259	309.1668	206.4472
1431.6617	**716.3348**	15	T	6	560.3044	280.6561	187.4400
1488.6831	744.8455	16	G	5	**459.2567**	230.1323	153.7575
1559.7203	780.3640	17	A	4	402.2353	201.6215	134.7503
1646.7523	**823.8801**	18	S	3	331.1981	166.1030	111.0713
1743.8050	872.4064	19	P	2	244.1661	122.5870	82.0606
		20	K	1	147.1134	74.0606	49.7097



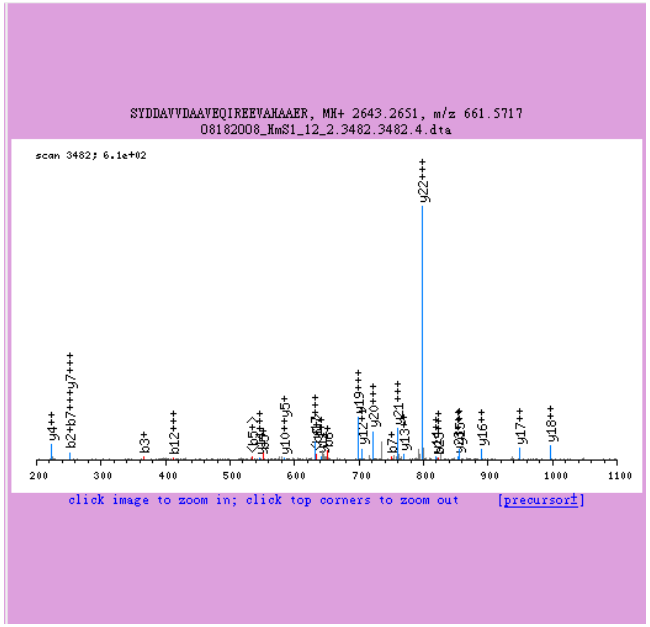
pNG7330

VAHTLYEAGASEYAR

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
1	3	1636.8	1636.8	-0.0064	3.073	0.371



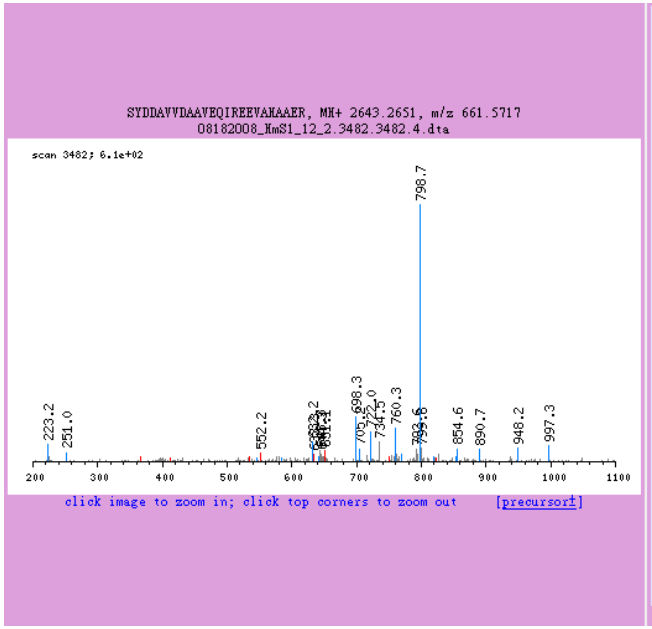
b^+	b^{2+}	b^{3+}	#	AA	#	y^+	y^{2+}	y^{3+}
100.0762	50.5420	34.0306	1	V	15			
171.1134	86.0606	57.7097	2	A	14	1538.7239	769.8659	513.5799
308.1723	154.5900	103.3960	3	H	13	1467.6868	734.3473	489.9008
409.2199	205.1139	137.0785	4	T	12	1330.6279	665.8179	444.2145
522.3040	261.6559	174.7732	5	L	11	1229.5802	**615.2940**	410.5320
685.3673	343.1876	229.1277	6	Y	10	1116.4962	558.7520	372.8373
814.4099	**407.7089**	272.1419	7	E	9	953.4328	477.2203	318.4828
885.4470	**443.2274**	295.8209	8	A	8	824.3903	**412.6990**	275.4686
942.4685	**471.7382**	314.8281	9	G	7	**753.3531**	377.1805	251.7896
1013.5056	**507.2567**	338.5071	10	A	6	**696.3317**	**348.6698**	232.7824
1100.5376	550.7727	**367.5178**	11	S	5	**625.2946**	313.1512	209.1034
1229.5802	**615.2940**	410.5320	12	E	4	**538.2625**	269.6352	180.0927
1392.6436	**696.8257**	464.8864	13	Y	3	**409.2199**	205.1139	137.0785
1463.6807	**732.3443**	**488.5654**	14	A	2	**246.1566**	123.5822	82.7241
			15	R	1	175.1195	88.0637	59.0451



pNG7248

SYDDAVVDAAVEQIREEVAHAAER

Peptide prob.	Precursor charge	Calc neutral pep mass	Precursor neutral mass	Mass difference	Xcorr	Deltacn
0.999	4	2642.3	2642.3	0.0077	2.584	0.176



b^+	b^{2+}	b^{3+}	#	AA	#	y^+	y^{2+}	y^{3+}
88.0399	44.5238	30.0185	1	S	24			
251.1032	126.0555	84.3729	2	Y	23	2556.2330	1278.6204	852.7496
366.1301	183.5690	122.7153	3	D	22	2393.1697	1197.0888	798.3951
481.1571	241.0824	161.0576	4	D	21	2278.1428	1139.5753	760.0528
552.1942	276.6010	184.7366	5	A	20	2163.1158	1082.0618	721.7105
651.2626	326.1352	217.7594	6	V	19	2092.0787	1046.5433	698.0315
750.3310	375.6694	250.7822	7	V	18	1993.0103	997.0091	665.0086
865.3580	433.1829	289.1245	8	D	17	1893.9419	947.4749	631.9858
936.3951	468.7014	312.8036	9	A	16	1778.9149	889.9614	593.6435
1007.4322	504.2200	336.4826	10	A	15	1707.8778	854.4428	569.9645
1106.5006	553.7542	369.5054	11	V	14	1636.8407	818.9243	546.2855
1235.5432	618.2755	412.5196	12	E	13	1537.7723	769.3901	513.2626
1363.6018	682.3048	455.2058	13	Q	12	1408.7297	704.8688	470.2485
1476.6858	738.8468	492.9005	14	I	11	1280.6711	640.8395	427.5623
1632.7869	816.8974	544.9342	15	R	10	1167.5871	584.2974	389.8676
1761.8295	881.4187	587.9484	16	E	9	1011.4859	506.2469	337.8339
1890.8721	945.9400	630.9626	17	E	8	882.4434	441.7256	294.8197
1989.9405	995.4742	663.9854	18	V	7	753.4008	377.2043	251.8055
2060.9777	1030.9927	687.6644	19	A	6	654.3323	327.6701	218.7827
2198.0366	1099.5222	733.3507	20	H	5	583.2952	292.1515	195.1036
2269.0737	1135.0408	757.0298	21	A	4	446.2363	223.6221	149.4173
2340.1108	1170.5593	780.7088	22	A	3	375.1992	188.1035	125.7383
2469.1534	1235.0806	823.7230	23	E	2	304.1621	152.5850	102.0592
			24	R	1	175.1195	88.0637	59.0451