

# MATRIX SCIENCE Mascot Search Results

Results Generated by a Script Modified from Mascot Peptide View  
 by Newman Sze, School of Biological Sciences, Nanyang Technological University

Spectrum No: 1; Query: 2201; Rank: 1

## Peptide View

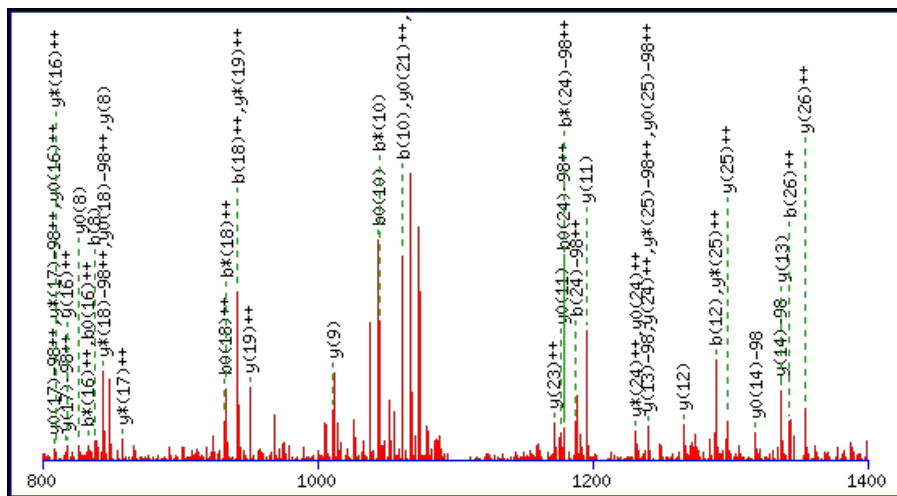
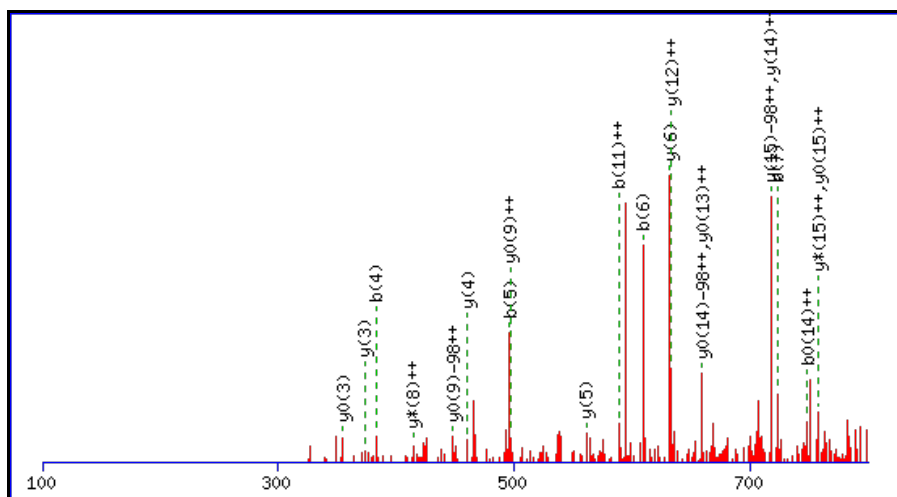
MS/MS Fragmentation of **ADPVLLNHSNLKPAPTVPAAAPSSPDATSEPK**

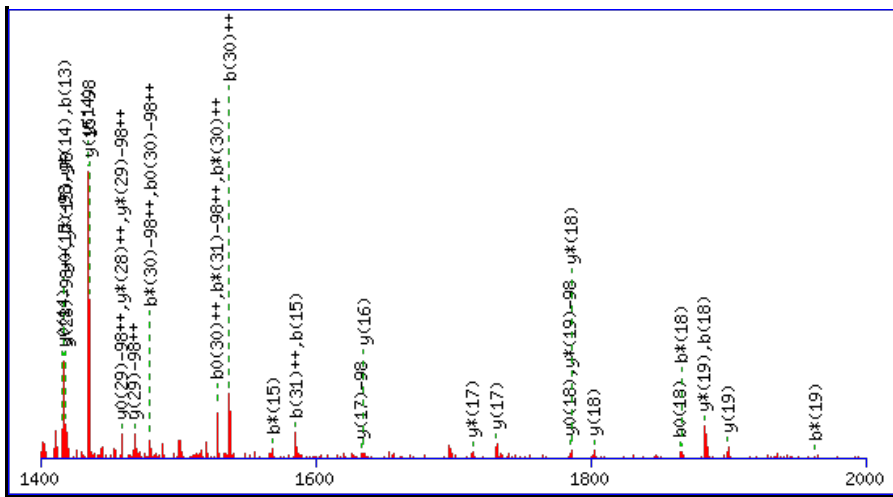
Found in **IPI00122826**, Tax\_Id=10090 Gene\_Symbol=Cend1 Cell cycle exit and neuronal differentiation protein 1

Match to Query 2201: 3315.596922 from(1106.206250,3+)

Title: 090417MouseBrain\_WAX1\_B06.5446.5446.3.dta

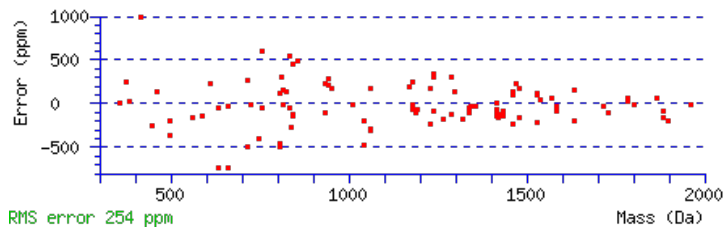
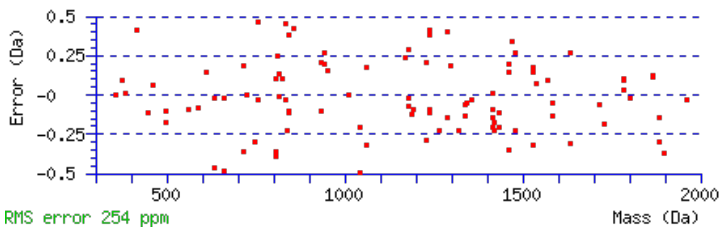
Data file C:\Mascot\20091227MouseBrainWax\_NQ\Uni\mgf\WAXUniHi.mgf





**Monoisotopic mass of neutral peptide Mr(calc):** 3315.6024  
**Fixed modifications:** Carbamidomethyl (C)  
**Variable modifications:**  
 N8 : Deamidated (NQ)  
 S24 : Phospho (ST), with neutral losses 0.0000(shown in table), 97.9769  
**Ions Score:** 60 **Expect:** 0.00067  
**Matches (Bold Red):** 102/540 fragment ions using 138 most intense peaks

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	72.0444	36.5258					A							32
2	187.0713	94.0393			169.0608	85.0340	D	3245.5726	1623.2899	3228.5460	1614.7766	3227.5620	1614.2846	31
3	284.1241	142.5657			266.1135	133.5604	P	3130.5456	1565.7764	3113.5191	1557.2632	3112.5351	1556.7712	30
4	<b>383.1925</b>	192.0999			365.1819	183.0946	V	3033.4929	1517.2501	3016.4663	1508.7368	3015.4823	1508.2448	29
5	<b>496.2766</b>	248.6419			478.2660	239.6366	L	2934.4244	1467.7159	2917.3979	<b>1459.2026</b>	2916.4139	1458.7106	28
6	<b>609.3606</b>	305.1840			591.3501	296.1787	L	2821.3404	1411.1738	2804.3138	1402.6606	2803.3298	1402.1685	27
7	<b>723.4036</b>	362.2054	706.3770	353.6921	705.3930	353.2001	N	2708.2563	<b>1354.6318</b>	2691.2298	1346.1185	2690.2458	1345.6265	26
8	<b>838.4305</b>	419.7189	821.4040	411.2056	820.4199	410.7136	N	2594.2134	<b>1297.6103</b>	2577.1868	<b>1289.0971</b>	2576.2028	1288.6051	25
9	975.4894	488.2483	958.4629	479.7351	957.4788	479.2431	H	2479.1865	<b>1240.0969</b>	2462.1599	<b>1231.5836</b>	2461.1759	<b>1231.0916</b>	24
10	<b>1062.5214</b>	531.7644	<b>1045.4949</b>	523.2511	<b>1044.5109</b>	522.7591	S	2342.1275	<b>1171.5674</b>	2325.1010	1163.0541	2324.1170	1162.5621	23
11	1176.5644	<b>588.7858</b>	1159.5378	580.2725	1158.5538	579.7805	N	2255.0955	1128.0514	2238.0690	1119.5381	2237.0849	1119.0461	22
12	<b>1289.6484</b>	645.3279	1272.6219	636.8146	1271.6379	636.3226	L	2141.0526	1071.0299	2124.0260	<b>1062.5167</b>	2123.0420	<b>1062.0246</b>	21
13	<b>1417.7434</b>	709.3753	1400.7168	700.8621	1399.7328	700.3701	K	2027.9685	1014.4879	2010.9420	1005.9746	2009.9580	1005.4826	20
14	1514.7962	757.9017	1497.7696	749.3884	1496.7856	<b>748.8964</b>	P	<b>1899.8736</b>	<b>950.4404</b>	<b>1882.8470</b>	<b>941.9271</b>	1881.8630	941.4351	19
15	<b>1585.8333</b>	793.4203	<b>1568.8067</b>	784.9070	1567.8227	784.4150	A	<b>1802.8208</b>	901.9140	<b>1785.7942</b>	893.4008	<b>1784.8102</b>	892.9088	18
16	1682.8860	841.9467	1665.8595	<b>833.4334</b>	1664.8755	<b>832.9414</b>	P	<b>1731.7837</b>	866.3955	<b>1714.7571</b>	<b>857.8822</b>	1713.7731	857.3902	17
17	1783.9337	892.4705	1766.9072	883.9572	1765.9232	883.4652	T	<b>1634.7309</b>	<b>817.8691</b>	1617.7044	<b>809.3558</b>	1616.7204	<b>808.8638</b>	16
18	<b>1883.0021</b>	<b>942.0047</b>	<b>1865.9756</b>	<b>933.4914</b>	<b>1864.9916</b>	<b>932.9994</b>	V	1533.6832	767.3453	1516.6567	<b>758.8320</b>	1515.6727	<b>758.3400</b>	15
19	1980.0549	990.5311	<b>1963.0283</b>	982.0178	1962.0443	981.5258	P	<b>1434.6148</b>	<b>717.8111</b>	<b>1417.5883</b>	709.2978	<b>1416.6043</b>	708.8058	14
20	2051.0920	1026.0496	2034.0655	1017.5364	2033.0814	1017.0444	A	<b>1337.5621</b>	669.2847	1320.5355	660.7714	1319.5515	<b>660.2794</b>	13
21	2122.1291	1061.5682	2105.1026	1053.0549	2104.1186	1052.5629	A	<b>1266.5249</b>	<b>633.7661</b>	1249.4984	625.2528	1248.5144	624.7608	12
22	2219.1819	1110.0946	2202.1553	1101.5813	2201.1713	1101.0893	P	<b>1195.4878</b>	598.2476	1178.4613	589.7343	<b>1177.4773</b>	589.2423	11
23	2306.2139	1153.6106	2289.1874	1145.0973	2288.2034	1144.6053	S	1098.4351	549.7212	1081.4085	541.2079	1080.4245	540.7159	10
24	2473.2123	1237.1098	2456.1857	1228.5965	2455.2017	1228.1045	S	<b>1011.4030</b>	506.2052	994.3765	497.6919	993.3925	<b>497.1999</b>	9
25	2570.2650	1285.6362	2553.2385	1277.1229	2552.2545	1276.6309	P	<b>844.4047</b>	422.7060	827.3781	<b>414.1927</b>	<b>826.3941</b>	413.7007	8
26	2685.2920	<b>1343.1496</b>	2668.2654	1334.6364	2667.2814	1334.1443	D	747.3519	374.1796	730.3254	365.6663	729.3414	365.1743	7
27	2756.3291	1378.6682	2739.3025	1370.1549	2738.3185	1369.6629	A	<b>632.3250</b>	316.6661	615.2984	308.1529	614.3144	307.6608	6
28	2857.3768	1429.1920	2840.3502	1420.6787	2839.3662	1420.1867	T	<b>561.2879</b>	281.1476	544.2613	272.6343	543.2773	272.1423	5
29	2944.4088	1472.7080	2927.3822	1464.1948	2926.3982	1463.7028	S	<b>460.2402</b>	230.6237	443.2136	222.1105	442.2296	221.6185	4
30	3073.4514	<b>1537.2293</b>	3056.4248	<b>1528.7161</b>	3055.4408	<b>1528.2240</b>	E	<b>373.2082</b>	187.1077	356.1816	178.5944	<b>355.1976</b>	178.1024	3
31	3170.5042	<b>1585.7557</b>	3153.4776	1577.2424	3152.4936	1576.7504	P	244.1656	122.5864	227.1390	114.0731			2



All matches to this query

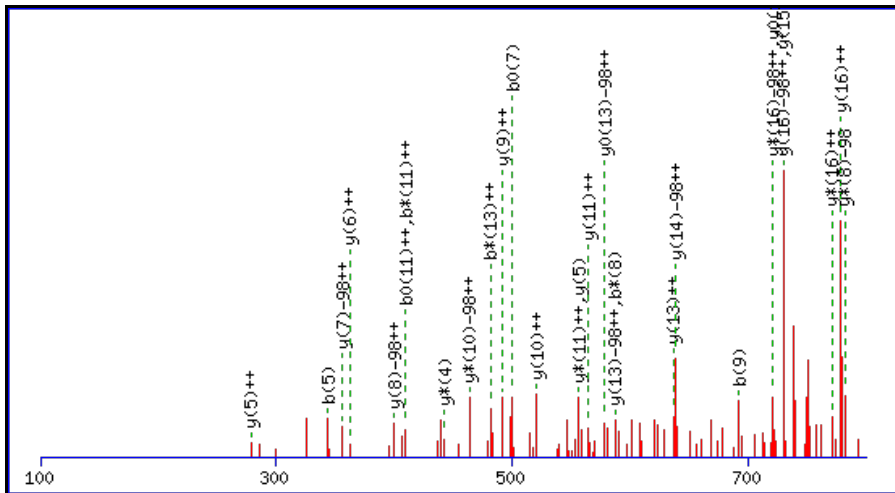
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53.3	3315.6024	-0.0054	<a href="#">ADPVLNNHNSNLKPAPTVPAAAPSSPDATSEPK</a>
53.0	3315.6024	-0.0054	<a href="#">ADPVLNNHNSNLKPAPTVPAAAPSSPDATSEPK</a>
48.3	3315.6024	-0.0054	<a href="#">ADPVLNNHNSNLKPAPTVPAAAPSSPDATSEPK</a>
48.1	3315.6024	-0.0054	<a href="#">ADPVLNNHNSNLKPAPTVPAAAPSSPDATSEPK</a>
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43.8	3315.6024	-0.0054	<a href="#">ADPVLNNHNSNLKPAPTVPAAAPSSPDATSEPK</a>
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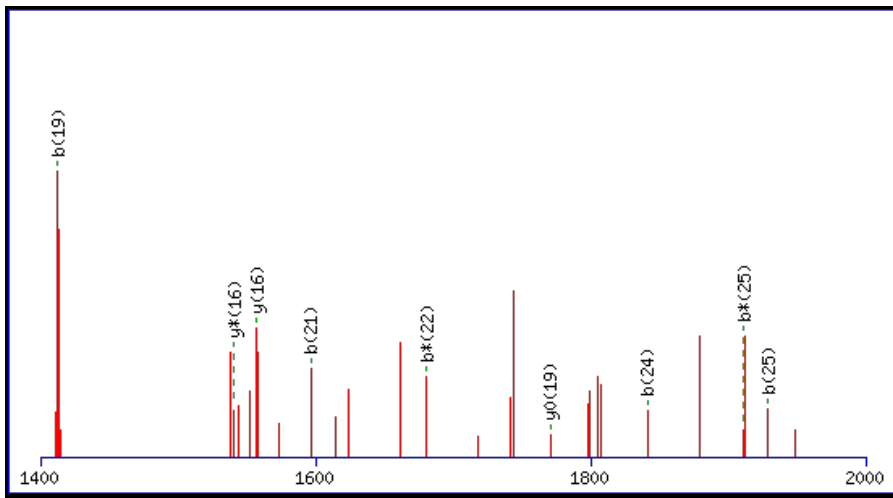
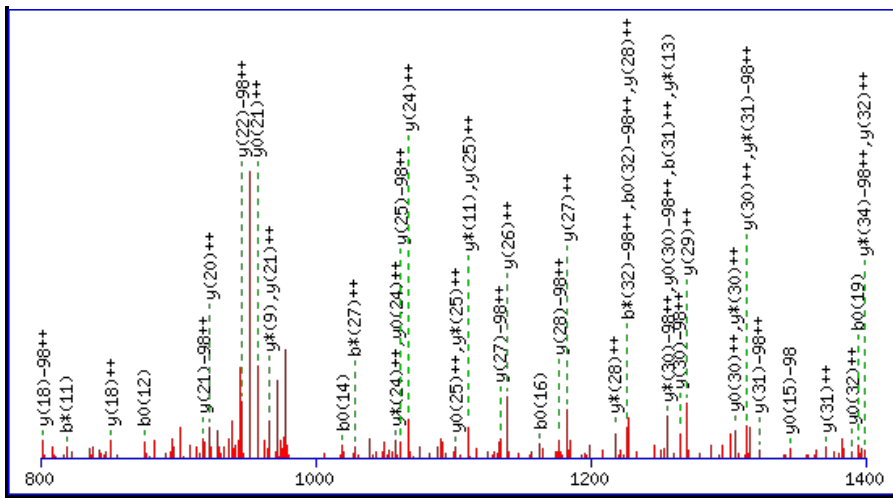
Spectrum No: 2; Query: 2017; Rank: 1

Peptide View

MS/MS Fragmentation of **GGGNSSSSGSGSGSGSPSTGSSGSSSPGARR**  
 Found in **IPI00460133**, Tax\_Id=10090 Gene\_Symbol=Asph Asph protein

Match to Query 2017: 2968.163232 from(990.395020,3+)  
 Title: 090417MouseBrain\_WAX1\_A01.466.466.3.dta  
 Data file C:\Mascot\20091227MouseBrainWax\_NQ\Uni\mgf\WAXUniHi.mgf

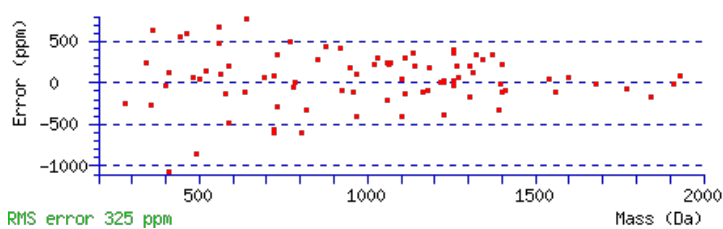
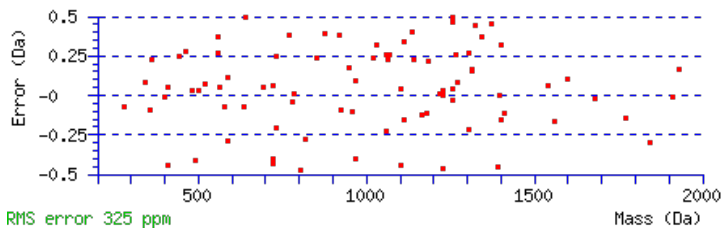




**Monoisotopic mass of neutral peptide Mr(calc):** 2968.1664  
**Fixed modifications:** Carbamidomethyl (C)  
**Variable modifications:**  
 N5 : Deamidated (NQ)  
 S30 : Phospho (ST), with neutral losses 0.0000(shown in table), 97.9769  
**Ions Score:** 59 **Expect:** 0.00066  
**Matches (Bold Red):** 85/584 fragment ions using 141 most intense peaks

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	58.0287	29.5180					<b>G</b>							<b>35</b>
2	115.0502	58.0287					<b>G</b>	2912.1522	1456.5797	2895.1256	1448.0665	2894.1416	1447.5745	<b>34</b>
3	172.0717	86.5395					<b>G</b>	2855.1307	1428.0690	2838.1042	1419.5557	2837.1202	1419.0637	<b>33</b>
4	229.0931	115.0502					<b>G</b>	2798.1093	<b>1399.5583</b>	2781.0827	1391.0450	2780.0987	<b>1390.5530</b>	<b>32</b>
5	<b>344.1201</b>	172.5637	327.0935	164.0504			<b>N</b>	2741.0878	<b>1371.0475</b>	2724.0613	1362.5343	2723.0772	1362.0423	<b>31</b>
6	431.1521	216.0797	414.1255	207.5664	413.1415	207.0744	<b>S</b>	2626.0609	<b>1313.5341</b>	2609.0343	<b>1305.0208</b>	2608.0503	<b>1304.5288</b>	<b>30</b>
7	518.1841	259.5957	501.1576	251.0824	<b>500.1736</b>	250.5904	<b>S</b>	2539.0288	<b>1270.0181</b>	2522.0023	1261.5048	2521.0183	1261.0128	<b>29</b>
8	605.2162	303.1117	<b>588.1896</b>	294.5984	587.2056	294.1064	<b>S</b>	2451.9968	<b>1226.5020</b>	2434.9703	<b>1217.9888</b>	2433.9862	1217.4968	<b>28</b>
9	<b>692.2482</b>	346.6277	675.2216	338.1145	674.2376	337.6224	<b>S</b>	2364.9648	<b>1182.9860</b>	2347.9382	1174.4728	2346.9542	1173.9807	<b>27</b>
10	749.2696	375.1385	732.2431	366.6252	731.2591	366.1332	<b>G</b>	2277.9328	<b>1139.4700</b>	2260.9062	1130.9567	2259.9222	1130.4647	<b>26</b>
11	836.3017	418.6545	<b>819.2751</b>	<b>410.1412</b>	818.2911	<b>409.6492</b>	<b>S</b>	2220.9113	<b>1110.9593</b>	2203.8847	<b>1102.4460</b>	2202.9007	<b>1101.9540</b>	<b>25</b>
12	893.3231	447.1652	876.2966	438.6519	<b>875.3126</b>	438.1599	<b>G</b>	2133.8793	<b>1067.4433</b>	2116.8527	<b>1058.9300</b>	2115.8687	<b>1058.4380</b>	<b>24</b>
13	980.3552	490.6812	963.3286	<b>482.1679</b>	962.3446	481.6759	<b>S</b>	2076.8578	1038.9325	2059.8313	1030.4193	2058.8472	1029.9273	<b>23</b>
14	1037.3766	519.1920	1020.3501	510.6787	<b>1019.3661</b>	510.1867	<b>G</b>	1989.8258	995.4165	1972.7992	986.9032	1971.8152	986.4112	<b>22</b>
15	1124.4087	562.7080	1107.3821	554.1947	1106.3981	553.7027	<b>S</b>	1932.8043	<b>966.9058</b>	1915.7778	958.3925	1914.7937	<b>957.9005</b>	<b>21</b>
16	1181.4301	591.2187	1164.4036	582.7054	<b>1163.4196</b>	582.2134	<b>G</b>	1845.7723	<b>923.3898</b>	1828.7457	914.8765	1827.7617	914.3845	<b>20</b>
17	1268.4621	634.7347	1251.4356	626.2214	1250.4516	625.7294	<b>S</b>	1788.7508	894.8790	1771.7243	886.3658	<b>1770.7403</b>	885.8738	<b>19</b>
18	1325.4836	663.2454	1308.4571	654.7322	1307.4730	654.2402	<b>G</b>	1701.7188	<b>851.3630</b>	1684.6922	842.8498	1683.7082	842.3577	<b>18</b>

19	1412.5156	706.7615	1395.4891	698.2482	1394.5051	697.7562	S	1644.6973	822.8523	1627.6708	814.3390	1626.6868	813.8470	17
20	1509.5684	755.2878	1492.5419	746.7746	1491.5578	746.2826	P	1557.6653	779.3363	1540.6387	770.8230	1539.6547	770.3310	16
21	1596.6004	798.8039	1579.5739	790.2906	1578.5899	789.7986	S	1460.6125	730.8099	1443.5860	722.2966	1442.6020	721.8046	15
22	1697.6481	849.3277	1680.6216	840.8144	1679.6375	840.3224	T	1373.5805	687.2939	1356.5540	678.7806	1355.5699	678.2886	14
23	1754.6696	877.8384	1737.6430	869.3252	1736.6590	868.8331	G	1272.5328	636.7701	1255.5063	628.2568	1254.5223	627.7648	13
24	1841.7016	921.3544	1824.6751	912.8412	1823.6910	912.3492	S	1215.5114	608.2593	1198.4848	599.7460	1197.5008	599.2540	12
25	1928.7336	964.8705	1911.7071	956.3572	1910.7231	955.8652	S	1128.4793	564.7433	1111.4528	556.2300	1110.4688	555.7380	11
26	1985.7551	993.3812	1968.7285	984.8679	1967.7445	984.3759	G	1041.4473	521.2273	1024.4208	512.7140	1023.4367	512.2220	10
27	2072.7871	1036.8972	2055.7606	1028.3839	2054.7766	1027.8919	S	984.4258	492.7166	967.3993	484.2033	966.4153	483.7113	9
28	2159.8192	1080.4132	2142.7926	1071.8999	2141.8086	1071.4079	S	897.3938	449.2005	880.3673	440.6873	879.3832	440.1953	8
29	2246.8512	1123.9292	2229.8246	1115.4160	2228.8406	1114.9239	S	810.3618	405.6845	793.3352	397.1713	792.3512	396.6792	7
30	2413.8495	1207.4284	2396.8230	1198.9151	2395.8390	1198.4231	S	723.3298	362.1685	706.3032	353.6552	705.3192	353.1632	6
31	2510.9023	1255.9548	2493.8757	1247.4415	2492.8917	1246.9495	P	556.3314	278.6693	539.3049	270.1561			5
32	2567.9238	1284.4655	2550.8972	1275.9522	2549.9132	1275.4602	G	459.2786	230.1430	442.2521	221.6297			4
33	2638.9609	1319.9841	2621.9343	1311.4708	2620.9503	1310.9788	A	402.2572	201.6322	385.2306	193.1190			3
34	2795.0620	1398.0346	2778.0354	1389.5214	2777.0514	1389.0293	R	331.2201	166.1137	314.1935	157.6004			2
35							R	175.1190	88.0631	158.0924	79.5498			1



All matches to this query

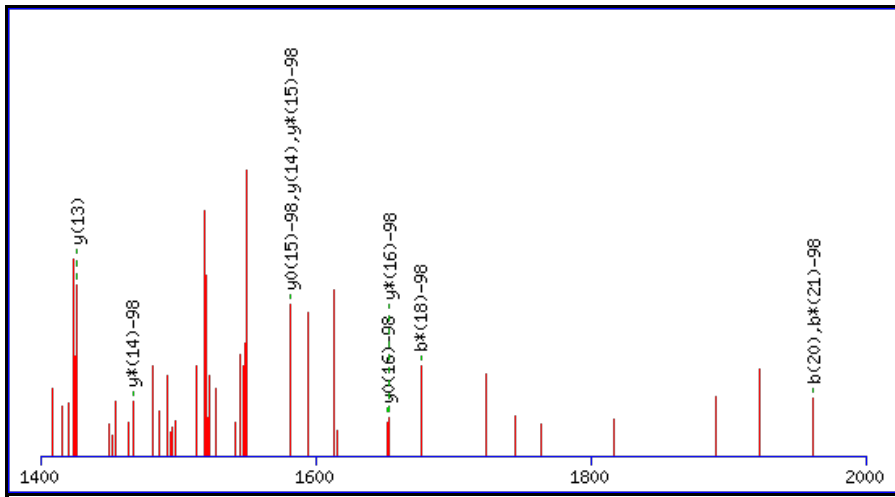
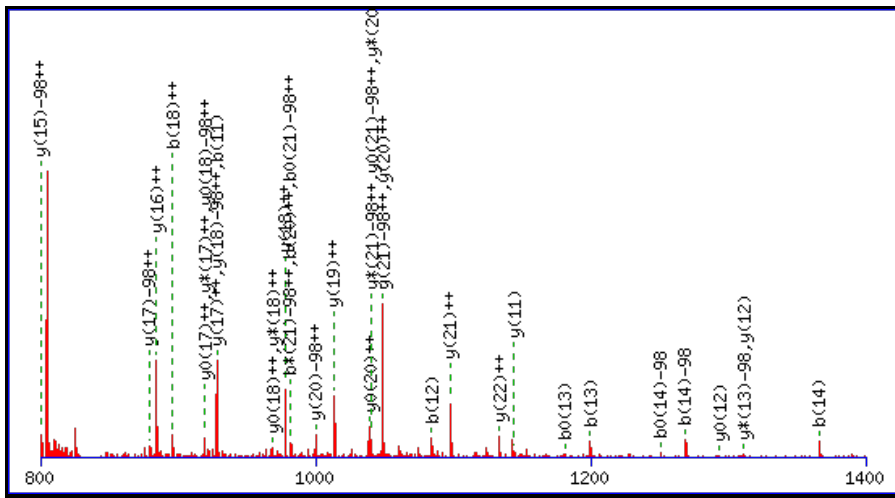
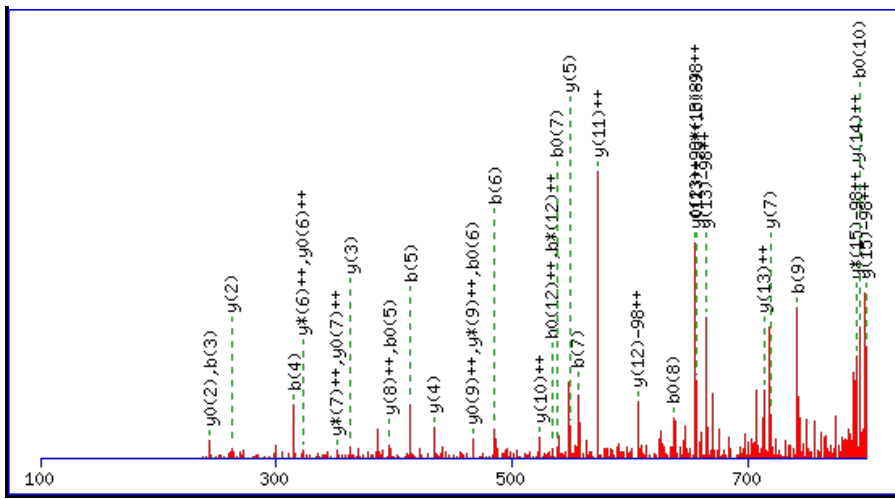
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57.7	2968.1664	-0.0032	<a href="#">GGGGNSSSSGSGSGSGSGSPSTGSSGSSSSPGARR</a>
52.6	2968.1664	-0.0032	<a href="#">GGGGNSSSSGSGSGSGSGSPSTGSSGSSSSPGARR</a>
51.5	2968.1664	-0.0032	<a href="#">GGGGNSSSSGSGSGSGSGSPSTGSSGSSSSPGARR</a>
43.9	2967.1824	0.9808	<a href="#">GGGGNSSSSGSGSGSGSGSPSTGSSGSSSSPGARR</a>
40.8	2968.1664	-0.0032	<a href="#">GGGGNSSSSGSGSGSGSGSPSTGSSGSSSSPGARR</a>
40.3	2968.1664	-0.0032	<a href="#">GGGGNSSSSGSGSGSGSGSPSTGSSGSSSSPGARR</a>
35.7	2967.1824	0.9808	<a href="#">GGGGNSSSSGSGSGSGSGSPSTGSSGSSSSPGARR</a>
33.7	2967.1824	0.9808	<a href="#">GGGGNSSSSGSGSGSGSGSPSTGSSGSSSSPGARR</a>
33.7	2967.1824	0.9808	<a href="#">GGGGNSSSSGSGSGSGSGSPSTGSSGSSSSPGARR</a>

Spectrum No: 3; Query: 1669; Rank: 1

Peptide View

MS/MS Fragmentation of **DGAAVAAVSADRDSPPCAGLNATSR**  
 Found in **IPI00224027**, Tax\_Id=10090 Gene\_Symbol=Gjc2 Gap junction gamma-2 protein

Match to Query 1669: 2510.114082 from(837.711970,3+)  
 Title: 090418MouseBrain\_WAX2\_B07.4699.4699.3.dta  
 Data file C:\Mascot\20091227MouseBrainWax\_NQ\Uni\mgf\WAXUniHi.mgf



Monoisotopic mass of neutral peptide Mr(calc): 2509.0904

Fixed modifications: Carbamidomethyl (C)

Variable modifications:

S14 : Phospho (ST), with neutral losses 0.0000(shown in table), 97.9769

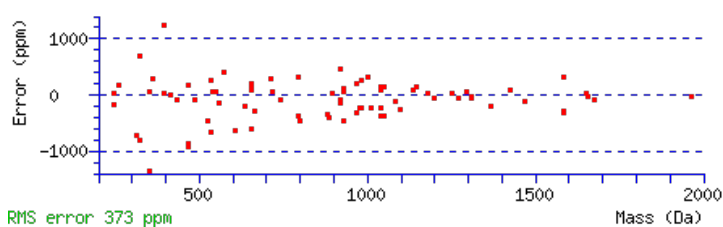
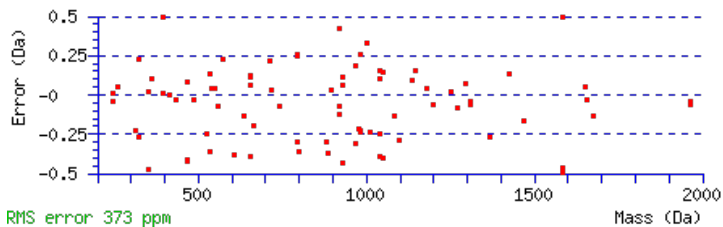
N21 : Deamidated (NQ)

Ions Score: 50 Expect: 0.0058

Matches (**Red Bold**): 83/408 fragment ions using 128 most intense peaks

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
1	116.0342	58.5207			98.0237	49.5155	<b>D</b>							<b>25</b>
2	173.0557	87.0315			155.0451	78.0262	<b>G</b>	2395.0708	1198.0390	2378.0442	1189.5257	2377.0602	1189.0337	<b>24</b>
3	<b>244.0928</b>	122.5500			226.0822	113.5448	<b>A</b>	2338.0493	1169.5283	2321.0228	1161.0150	2320.0387	1160.5230	<b>23</b>
4	<b>315.1299</b>	158.0686			297.1193	149.0633	<b>A</b>	2267.0122	<b>1134.0097</b>	2249.9856	1125.4965	2249.0016	1125.0044	<b>22</b>

5	414.1983	207.6028			396.1878	198.5975	V	2195.9751	1098.4912	2178.9485	1089.9779	2177.9645	1089.4859	21
6	485.2354	243.1214			467.2249	234.1161	A	2096.9067	1048.9570	2079.8801	1040.4437	2078.8961	1039.9517	20
7	556.2726	278.6399			538.2620	269.6346	A	2025.8695	1013.4384	2008.8430	1004.9251	2007.8590	1004.4331	19
8	655.3410	328.1741			637.3304	319.1688	V	1954.8324	977.9199	1937.8059	969.4066	1936.8219	968.9146	18
9	742.3730	371.6901			724.3624	362.6849	S	1855.7640	928.3856	1838.7375	919.8724	1837.7535	919.3804	17
10	813.4101	407.2087			795.3995	398.2034	A	1768.7320	884.8696	1751.7054	876.3564	1750.7214	875.8644	16
11	928.4371	464.7222			910.4265	455.7169	D	1697.6949	849.3511	1680.6683	840.8378	1679.6843	840.3458	15
12	1084.5382	542.7727	1067.5116	534.2594	1066.5276	533.7674	R	1582.6679	791.8376	1565.6414	783.3243	1564.6574	782.8323	14
13	1199.5651	600.2862	1182.5386	591.7729	1181.5545	591.2809	D	1426.5668	713.7870	1409.5403	705.2738	1408.5563	704.7818	13
14	1366.5635	683.7854	1349.5369	675.2721	1348.5529	674.7801	S	1311.5399	656.2736	1294.5133	647.7603	1293.5293	647.2683	12
15	1463.6162	732.3117	1446.5897	723.7985	1445.6057	723.3065	P	1144.5415	572.7744	1127.5150	564.2611	1126.5310	563.7691	11
16	1560.6690	780.8381	1543.6424	772.3249	1542.6584	771.8328	P	1047.4888	524.2480	1030.4622	515.7347	1029.4782	515.2427	10
17	1720.6996	860.8535	1703.6731	852.3402	1702.6891	851.8482	C	950.4360	475.7216	933.4095	467.2084	932.4254	466.7164	9
18	1791.7367	896.3720	1774.7102	887.8587	1773.7262	887.3667	A	790.4054	395.7063	773.3788	387.1930	772.3948	386.7010	8
19	1848.7582	924.8827	1831.7317	916.3695	1830.7476	915.8775	G	719.3682	360.1878	702.3417	351.6745	701.3577	351.1825	7
20	1961.8423	981.4248	1944.8157	972.9115	1943.8317	972.4195	L	662.3468	331.6770	645.3202	323.1637	644.3362	322.6717	6
21	2076.8692	1038.9382	2059.8427	1030.4250	2058.8586	1029.9330	N	549.2627	275.1350	532.2362	266.6217	531.2521	266.1297	5
22	2147.9063	1074.4568	2130.8798	1065.9435	2129.8958	1065.4515	A	434.2358	217.6215	417.2092	209.1083	416.2252	208.6162	4
23	2248.9540	1124.9806	2231.9275	1116.4674	2230.9434	1115.9754	T	363.1987	182.1030	346.1721	173.5897	345.1881	173.0977	3
24	2335.9860	1168.4967	2318.9595	1159.9834	2317.9755	1159.4914	S	262.1510	131.5791	245.1244	123.0659	244.1404	122.5738	2
25							R	175.1190	88.0631	158.0924	79.5498			1



All matches to this query

Score	Mr(calc):	Delta	Sequence
50.3	2509.0904	1.0237	<a href="#">DGAAVAAVSADRSPPCAGLNATSR</a>
43.6	2508.1064	2.0077	<a href="#">DGAAVAAVSADRSPPCAGLNATSR</a>
28.3	2508.1064	2.0077	<a href="#">DGAAVAAVSADRSPPCAGLNATSR</a>
25.6	2509.0904	1.0237	<a href="#">DGAAVAAVSADRSPPCAGLNATSR</a>
25.3	2509.0904	1.0237	<a href="#">DGAAVAAVSADRSPPCAGLNATSR</a>
24.4	2509.0904	1.0237	<a href="#">DGAAVAAVSADRSPPCAGLNATSR</a>
23.5	2508.1064	2.0077	<a href="#">DGAAVAAVSADRSPPCAGLNATSR</a>
23.5	2508.1064	2.0077	<a href="#">DGAAVAAVSADRSPPCAGLNATSR</a>
7.1	2509.0945	1.0196	<a href="#">GEWCGVELDEPLGKNDGAVAGTR</a>
6.8	2510.1317	-0.0177	<a href="#">TYLQMKWPLLDVQAGSLQSR</a>

Spectrum No: 4; Query: 2362; Rank: 1

Peptide View

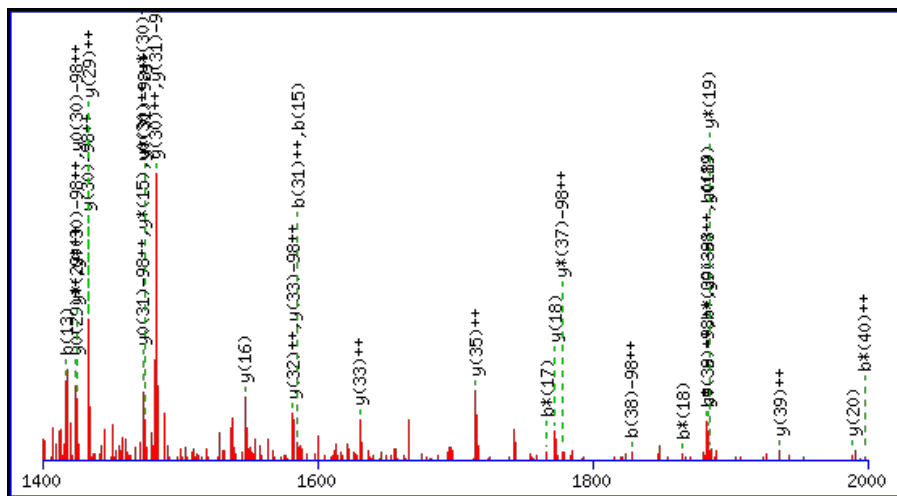
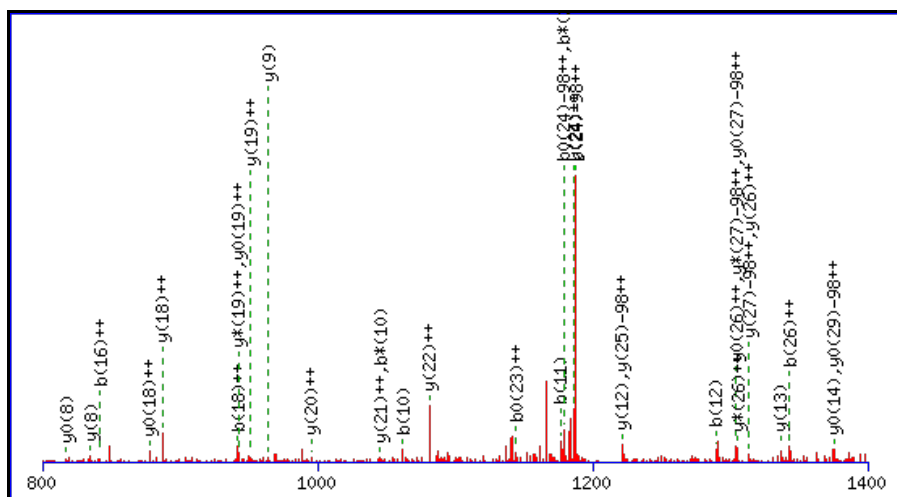
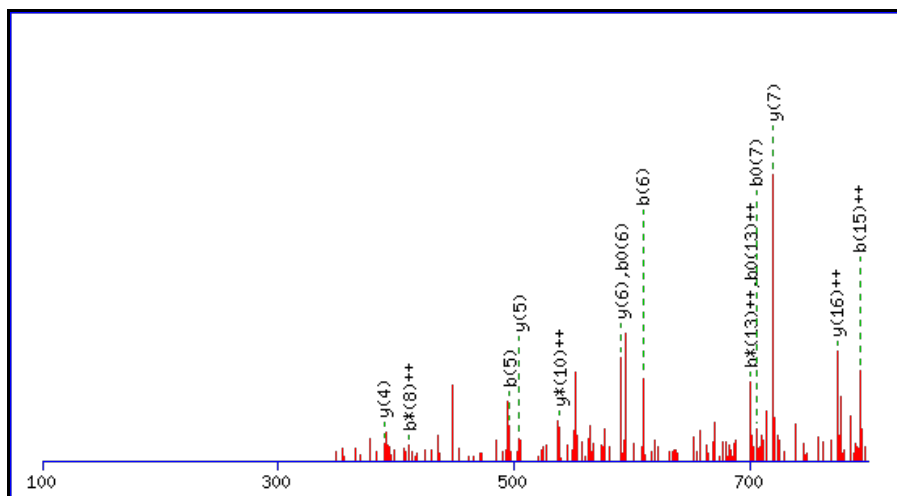
MS/MS Fragmentation of **ADPVLLNHSNLKPAPTVPAAAPSSPDATSEPKGPGDGAEEDESNTGGR**

Found in **IPI00122826**, Tax\_Id=10090 Gene\_Symbol=Cend1 Cell cycle exit and neuronal differentiation protein 1

Match to Query 2362: 4844.199496 from(1212.057150,4+)

Title: 090418MouseBrain\_WAX2\_B03.5268.5268.4.dta

Data file C:\Mascot\20091227MouseBrainWax\_NQ\Uni\mgf\WAXUniHi.mgf



Monoisotopic mass of neutral peptide Mr(calc): 4844.2050

Fixed modifications: Carbamidomethyl (C)

Variable modifications:

N8 : Deamidated (NQ)

S24 : Phospho (ST), with neutral losses 0.0000(shown in table), 97.9769

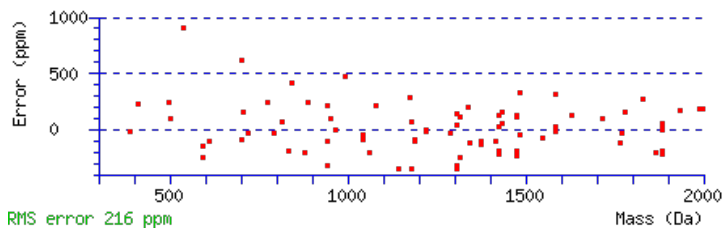
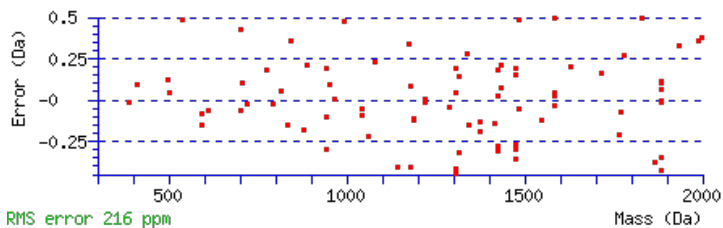
Ions Score: 48 Expect: 0.017

Matches (Bold Red): 84/826 fragment ions using 137 most intense peaks

#	b	b <sup>++</sup>	b <sup>*</sup>	b <sup>*++</sup>	b <sup>0</sup>	b <sup>0++</sup>	Seq.	y	y <sup>++</sup>	y <sup>*</sup>	y <sup>*++</sup>	y <sup>0</sup>	y <sup>0++</sup>	#
<b>1</b>	72.0444	36.5258					<b>A</b>							<b>48</b>
<b>2</b>	187.0713	94.0393			169.0608	85.0340	<b>D</b>	4774.1752	2387.5912	4757.1486	2379.0780	4756.1646	2378.5859	<b>47</b>



3	284.1241	142.5657			266.1135	133.5604	P	4659.1482	2330.0778	4642.1217	2321.5645	4641.1377	2321.0725	46
4	383.1925	192.0999			365.1819	183.0946	V	4562.0955	2281.5514	4545.0689	2273.0381	4544.0849	2272.5461	45
5	<b>496.2766</b>	248.6419			478.2660	239.6366	L	4463.0271	2232.0172	4446.0005	2223.5039	4445.0165	2223.0119	44
6	<b>609.3606</b>	305.1840			<b>591.3501</b>	296.1787	L	4349.9430	2175.4751	4332.9164	2166.9619	4331.9324	2166.4699	43
7	723.4036	362.2054	706.3770	353.6921	<b>705.3930</b>	353.2001	N	4236.8589	2118.9331	4219.8324	2110.4198	4218.8484	2109.9278	42
8	838.4305	419.7189	821.4040	<b>411.2056</b>	820.4199	410.7136	N	4122.8160	2061.9116	4105.7894	2053.3984	4104.8054	2052.9064	41
9	975.4894	488.2483	958.4629	479.7351	957.4788	479.2431	H	4007.7891	2004.3982	3990.7625	1995.8849	3989.7785	1995.3929	40
10	<b>1062.5214</b>	531.7644	<b>1045.4949</b>	523.2511	1044.5109	522.7591	S	3870.7302	<b>1935.8687</b>	3853.7036	1927.3554	3852.7196	1926.8634	39
11	<b>1176.5644</b>	588.7858	1159.5378	580.2725	1158.5538	579.7805	N	3783.6981	1892.3527	3766.6716	<b>1883.8394</b>	3765.6876	<b>1883.3474</b>	38
12	<b>1289.6484</b>	645.3279	1272.6219	636.8146	1271.6379	636.3226	L	3669.6552	1835.3312	3652.6286	1826.8180	3651.6446	1826.3260	37
13	<b>1417.7434</b>	709.3753	1400.7168	<b>700.8621</b>	1399.7328	<b>700.3701</b>	K	3556.5711	1778.7892	3539.5446	1770.2759	3538.5606	1769.7839	36
14	1514.7962	757.9017	1497.7696	749.3884	1496.7856	748.8964	P	3428.4762	<b>1714.7417</b>	3411.4496	1706.2284	3410.4656	1705.7364	35
15	<b>1585.8333</b>	<b>793.4203</b>	1568.8067	784.9070	1567.8227	784.4150	A	3331.4234	1666.2153	3314.3969	1657.7021	3313.4128	1657.2101	34
16	1682.8860	<b>841.9467</b>	1665.8595	833.4334	1664.8755	832.9414	P	3260.3863	<b>1630.6968</b>	3243.3597	1622.1835	3242.3757	1621.6915	33
17	1783.9337	892.4705	<b>1766.9072</b>	883.9572	1765.9232	883.4652	T	3163.3335	<b>1582.1704</b>	3146.3070	1573.6571	3145.3230	1573.1651	32
18	<b>1883.0021</b>	<b>942.0047</b>	<b>1865.9756</b>	933.4914	1864.9916	932.9994	V	3062.2858	1531.6466	3045.2593	1523.1333	3044.2753	1522.6413	31
19	1980.0549	990.5311	1963.0283	982.0178	1962.0443	981.5258	P	2963.2174	<b>1482.1124</b>	2946.1909	<b>1473.5991</b>	2945.2069	<b>1473.1071</b>	30
20	2051.0920	1026.0496	2034.0655	1017.5364	2033.0814	1017.0444	A	2866.1647	<b>1433.5860</b>	2849.1381	<b>1425.0727</b>	2848.1541	<b>1424.5807</b>	29
21	2122.1291	1061.5682	2105.1026	1053.0549	2104.1186	1052.5629	A	2795.1276	1398.0674	2778.1010	1389.5541	2777.1170	1389.0621	28
22	2219.1819	1110.0946	2202.1553	1101.5813	2201.1713	1101.0893	P	2724.0904	1362.5489	2707.0639	1354.0356	2706.0799	1353.5436	27
23	2306.2139	1153.6106	2289.1874	1145.0973	2288.2034	<b>1144.6053</b>	S	2627.0377	<b>1314.0225</b>	2610.0111	<b>1305.5092</b>	2609.0271	<b>1305.0172</b>	26
24	2473.2123	1237.1098	2456.1857	1228.5965	2455.2017	1228.1045	S	2540.0056	1270.5065	2522.9791	1261.9932	2521.9951	1261.5012	25
25	2570.2650	1285.6362	2553.2385	1277.1229	2552.2545	1276.6309	P	2373.0073	<b>1187.0073</b>	2355.9807	1178.4940	2354.9967	1178.0020	24
26	2685.2920	<b>1343.1496</b>	2668.2654	1334.6364	2667.2814	1334.1443	D	2275.9545	1138.4809	2258.9280	1129.9676	2257.9440	1129.4756	23
27	2756.3291	1378.6682	2739.3025	1370.1549	2738.3185	1369.6629	A	2160.9276	<b>1080.9674</b>	2143.9010	1072.4542	2142.9170	1071.9622	22
28	2857.3768	1429.1920	2840.3502	1420.6787	2839.3662	1420.1867	T	2089.8905	<b>1045.4489</b>	2072.8639	1036.9356	2071.8799	1036.4436	21
29	2944.4088	1472.7080	2927.3822	1464.1948	2926.3982	1463.7028	S	<b>1988.8428</b>	<b>994.9250</b>	1971.8162	986.4118	1970.8322	985.9198	20
30	3073.4514	1537.2293	3056.4248	1528.7161	3055.4408	1528.2240	E	1901.8108	<b>951.4090</b>	<b>1884.7842</b>	<b>942.8957</b>	<b>1883.8002</b>	<b>942.4037</b>	19
31	3170.5042	<b>1585.7557</b>	3153.4776	1577.2424	3152.4936	1576.7504	P	<b>1772.7682</b>	<b>886.8877</b>	1755.7416	878.3745	1754.7576	<b>877.8824</b>	18
32	3298.5991	1649.8032	3281.5726	1641.2899	3280.5886	1640.7979	K	1675.7154	838.3613	1658.6889	829.8481	1657.7048	829.3561	17
33	3355.6206	1678.3139	3338.5940	1669.8007	3337.6100	1669.3086	G	<b>1547.6204</b>	<b>774.3139</b>	1530.5939	765.8006	1529.6099	765.3086	16
34	3452.6733	1726.8403	3435.6468	1718.3270	3434.6628	1717.8350	P	1490.5990	745.8031	<b>1473.5724</b>	737.2899	1472.5884	736.7978	15
35	3509.6948	1755.3510	3492.6683	1746.8378	3491.6842	1746.3458	G	1393.5462	697.2767	1376.5197	688.7635	<b>1375.5357</b>	688.2715	14
36	3624.7218	1812.8645	3607.6952	1804.3512	3606.7112	1803.8592	D	<b>1336.5248</b>	668.7660	1319.4982	660.2527	1318.5142	659.7607	13
37	3681.7432	1841.3752	3664.7167	1832.8620	3663.7326	1832.3700	G	<b>1221.4978</b>	611.2525	1204.4713	602.7393	1203.4872	602.2473	12
38	3752.7803	1876.8938	3735.7538	1868.3805	3734.7698	1867.8885	A	1164.4764	582.7418	1147.4498	574.2285	1146.4658	573.7365	11
39	3881.8229	1941.4151	3864.7964	1932.9018	3863.8124	1932.4098	E	1093.4392	547.2233	1076.4127	<b>538.7100</b>	1075.4287	538.2180	10
40	4010.8655	2005.9364	3993.8390	<b>1997.4231</b>	3992.8549	1996.9311	E	<b>964.3966</b>	482.7020	947.3701	474.1887	946.3861	473.6967	9
41	4125.8925	2063.4499	4108.8659	2054.9366	4107.8819	2054.4446	D	<b>835.3541</b>	418.1807	818.3275	409.6674	<b>817.3435</b>	409.1754	8
42	4254.9351	2127.9712	4237.9085	2119.4579	4236.9245	2118.9659	E	<b>720.3271</b>	360.6672	703.3006	352.1539	702.3165	351.6619	7
43	4341.9671	2171.4872	4324.9405	2162.9739	4323.9565	2162.4819	S	<b>591.2845</b>	296.1459	574.2580	287.6326	573.2739	287.1406	6
44	4456.0100	2228.5086	4438.9835	2219.9954	4437.9994	2219.5034	N	<b>504.2525</b>	252.6299	487.2259	244.1166	486.2419	243.6246	5
45	4557.0577	2279.0325	4540.0311	2270.5192	4539.0471	2270.0272	T	<b>390.2096</b>	195.6084	373.1830	187.0951	372.1990	186.6031	4
46	4614.0791	2307.5432	4597.0526	2299.0299	4596.0686	2298.5379	G	289.1619	145.0846	272.1353	136.5713			3
47	4671.1006	2336.0539	4654.0741	2327.5407	4653.0900	2327.0487	G	232.1404	116.5738	215.1139	108.0606			2
48							R	175.1190	88.0631	158.0924	79.5498			1



**All matches to this query**

Score	Mr(calc):	Delta	Sequence
47.9	4844.2050	-0.0055	<a href="#">ADPVLLNNHSNLKPAPTVPAAAPSSPDATSEPKGPGDGAEEDSNTGGR</a>
47.2	4844.2050	-0.0055	<a href="#">ADPVLLNNHSNLKPAPTVPAAAPSSPDATSEPKGPGDGAEEDSNTGGR</a>
47.1	4844.2050	-0.0055	<a href="#">ADPVLLNNHSNLKPAPTVPAAAPSSPDATSEPKGPGDGAEEDSNTGGR</a>
46.4	4844.2050	-0.0055	<a href="#">ADPVLLNNHSNLKPAPTVPAAAPSSPDATSEPKGPGDGAEEDSNTGGR</a>
44.7	4844.2050	-0.0055	<a href="#">ADPVLLNNHSNLKPAPTVPAAAPSSPDATSEPKGPGDGAEEDSNTGGR</a>
43.9	4844.2050	-0.0055	<a href="#">ADPVLLNNHSNLKPAPTVPAAAPSSPDATSEPKGPGDGAEEDSNTGGR</a>
42.4	4844.2050	-0.0055	<a href="#">ADPVLLNNHSNLKPAPTVPAAAPSSPDATSEPKGPGDGAEEDSNTGGR</a>
39.0	4844.2050	-0.0055	<a href="#">ADPVLLNNHSNLKPAPTVPAAAPSSPDATSEPKGPGDGAEEDSNTGGR</a>
37.4	4844.2050	-0.0055	<a href="#">ADPVLLNNHSNLKPAPTVPAAAPSSPDATSEPKGPGDGAEEDSNTGGR</a>
35.3	4844.2050	-0.0055	<a href="#">ADPVLLNNHSNLKPAPTVPAAAPSSPDATSEPKGPGDGAEEDSNTGGR</a>

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