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which should be cited to refer to this work.

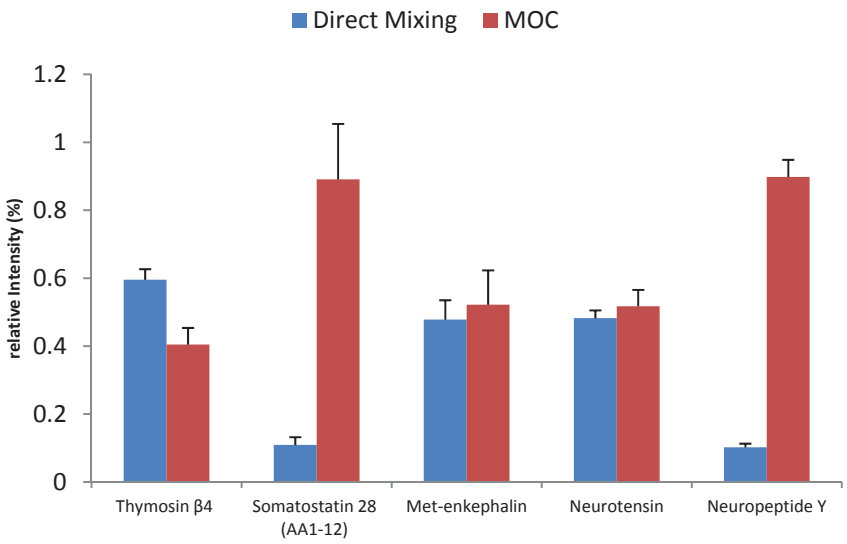
Legends of Supplementary Figures

Fig.S1 The peptide abundance in multi-stage extraction. The relative intensity difference of four representative peptides, somatostatine 28 (AA1-12), met-enkephalin, neurotensin and neuropeptide Y. A high abundant peptide thymosin β 4 is used as a reference peptide. The bars indicate the mean relative intensities ± s.e.m (n=4). In the direct mixing method, two aqueous extract and two organic extracts are prepared from each homogenized mouse brain sample using the parameters identical to those used for the MOC method. All the extracts are combined and subjected to filtration. Four brain samples are used for each method. Compared to MOC samples, the abundances of polar somatostatin 28 (AA1-12) and hydrophobic neuropeptide Y are remarkably lower than those in direct mixing samples. The results show that the abundance of a peptide is highly specific to a extract method and can thus influence the subsequent acquisition of tandem MS data.

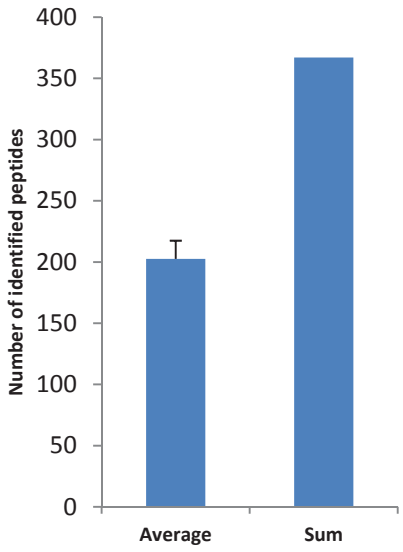
Fig.S2 The number of peptides identified from mouse hypothalami. The left bar indicates the average numbers (mean ± s.e.m) of identified peptides per HT sample (n=5). The right bar indicated the sum of unique identified peptides from 5 HT samples. The peptide sequence FDR is less than 1%.

Fig.S3 Annotated tandem MS spectra for a single peptide identified from a prohormone precursor.

Fig.S4 Annotated tandem MS spectra for peptides with PTMs.



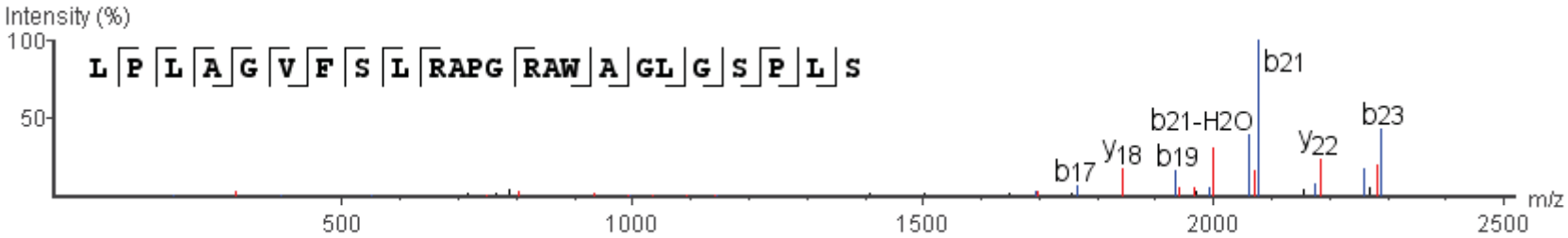
Supplementary Fig.S1



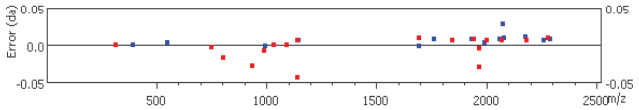
Supplementary Fig.S2

Supplementary Fig.S3

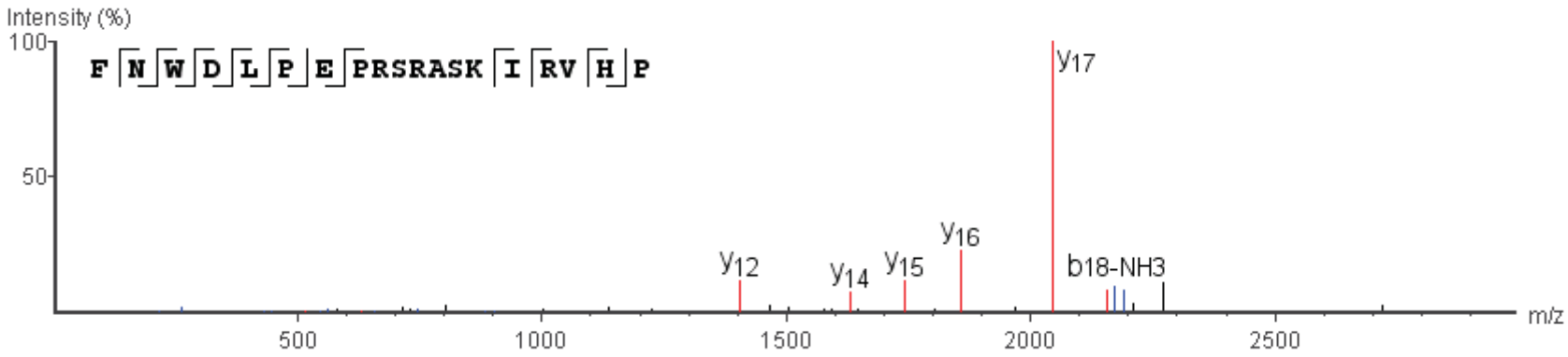
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Tuberoinfundibular peptide of 39 residues	Q91W27|TIP39_MOUSE		A.LPLAGVFSLRAPGRAWAGLGSPLS.R	89.23	0.2	798.4534	3



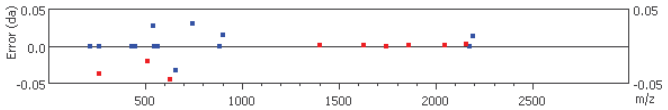
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	86.10	114.09	96.08	97.06	86.10	68.09	69.07	131.12	113.11	114.09	130.11	57.55	43.55	66.06	L																	24
2	70.07	211.14	193.13	194.12	183.15	165.14	166.12	228.17	210.16	211.14	227.16	106.07	92.07	114.59	P	2306.24	2288.23	2289.21	2280.25	2262.25	2263.23	2263.23	2245.22	2246.21	2264.24	2246.23	2247.21	1153.62	1140.62	1132.12	1132.62	23
3	86.10	324.23	306.22	307.20	296.23	278.22	279.21	341.26	323.25	324.23	340.25	162.61	148.62	171.13	L	2209.19	2191.18	2192.16	2183.20	2165.20	2166.18	2166.18	2148.17	2149.15	2167.19	2149.18	2150.16	1105.09	1092.10	1083.59	1084.09	22
4	44.05	395.27	377.26	378.24	367.27	349.26	350.24	412.29	394.28	395.27	411.29	198.13	184.14	206.65	A	2096.10	2078.09	2079.08	2070.12	2052.11	2053.10	2053.10	2035.09	2036.07	2054.11	2036.09	2037.08	1048.55	1035.56	1027.05	1027.55	21
5	30.03	452.29	434.28	435.26	424.29	406.28	407.27	469.31	451.30	452.29	468.31	226.64	212.65	235.16	G	2025.07	2007.06	2008.04	1999.08	1981.08	1982.06	1982.06	1964.05	1965.06	1983.07	1965.06	1966.04	1013.03	1000.04	991.54	992.03	20
6	72.08	551.35	533.35	534.33	523.36	505.35	506.33	568.38	550.37	551.35	567.37	276.18	262.18	284.69	V	1968.05	1950.03	1951.02	1942.06	1924.06	1925.04	1925.04	1907.03	1908.01	1926.05	1908.04	1909.02	984.52	971.53	963.02	963.52	19
7	120.08	698.42	680.41	681.40	670.43	652.42	653.40	715.45	697.44	698.42	714.44	349.71	335.71	358.23	F	1868.98	1850.97	1851.95	1842.99	1824.99	1825.97	1825.97	1807.96	1808.94	1826.98	1808.97	1809.95	935.02	922.00	913.49	913.99	18
8	60.04	785.46	767.45	768.43	757.46	739.45	740.43	802.48	784.47	785.46	801.48	393.23	379.23	401.74	S	1721.91	1703.90	1704.88	1695.92	1677.92	1678.90	1678.90	1660.89	1661.87	1679.91	1661.90	1662.88	861.45	848.46	839.95	840.45	17
9	86.10	898.54	880.53	881.51	870.55	852.53	853.52	915.57	897.56	898.54	914.56	449.77	435.77	458.28	L	1634.88	1616.87	1617.85	1608.90	1590.89	1591.87	1591.87	1573.86	1574.84	1592.88	1574.87	1575.85	817.94	804.97	796.43	796.94	16
10	129.11	1054.64	1036.63	1037.61	1026.65	1008.64	1009.62	1071.67	1053.66	1054.64	1070.66	527.82	513.82	536.33	R	1521.79	1503.78	1504.77	1495.81	1477.80	1478.79	1478.79	1460.78	1461.76	1479.79	1461.78	1462.77	761.40	748.41	739.89	740.40	15
11	44.05	1125.68	1107.67	1108.65	1097.68	1079.67	1080.66	1142.71	1124.69	1125.68	1141.70	563.34	549.34	571.85	A	1365.69	1347.68	1348.66	1339.71	1321.70	1322.68	1322.68	1304.67	1305.66	1323.69	1305.68	1306.67	683.35	670.36	661.84	662.35	14
12	70.07	1222.73	1204.72	1205.70	1194.74	1176.73	1177.71	1239.76	1221.75	1222.73	1238.75	611.87	597.87	620.38	P	1294.65	1276.64	1277.63	1268.67	1250.66	1251.65	1251.65	1233.64	1234.62	1252.66	1234.64	1235.63	647.83	634.84	626.32	626.83	13
13	30.03	1279.75	1261.74	1262.73	1251.76	1233.75	1234.73	1296.78	1278.77	1279.75	1295.77	640.38	626.38	648.89	G	1197.60	1179.59	1180.57	1171.62	1153.61	1154.59	1154.59	1136.58	1137.57	1155.60	1137.59	1138.58	599.30	586.31	577.80	578.30	12
14	129.11	1435.85	1417.84	1418.83	1407.86	1389.85	1390.83	1452.88	1434.87	1435.85	1451.87	718.43	704.43	726.94	R	1140.62	1122.57	1123.55	1114.60	1096.59	1097.57	1097.57	1079.56	1080.55	1098.58	1080.57	1081.55	570.79	557.80	549.29	549.79	11
15	44.05	1506.89	1488.88	1489.86	1478.90	1460.89	1461.87	1523.92	1505.91	1506.89	1522.91	753.95	739.95	762.46	A	984.48	966.47	967.45	958.50	940.49	941.47	941.47	923.46	924.45	942.48	924.47	925.45	492.74	479.75	471.24	471.74	10
16	159.09	1692.97	1674.96	1675.94	1664.90	1646.96	1647.95	1710.00	1691.99	1692.97	1708.99	846.99	832.99	855.50	W	913.44	895.43	896.41	887.46	869.45	870.44	870.44	852.42	853.41	871.44	853.43	854.42	457.22	444.23	435.72	436.22	9
17	44.05	1764.00	1746.00	1746.98	1736.01	1718.00	1718.99	1781.03	1763.02	1764.00	1780.03	882.50	868.51	891.02	A	727.36	709.35	710.34	701.38	683.37	684.36	684.36	666.35	667.33	685.36	667.35	668.34	364.18	351.19	342.68	343.18	8
18	30.03	1821.03	1803.02	1804.00	1793.03	1775.02	1776.01	1838.06	1820.05	1821.03	1837.05	911.01	897.02	919.53	G	656.33	638.31	639.30	630.35	612.34	613.32	613.32	595.31	596.29	614.33	596.32	597.30	328.66	315.67	307.16	307.66	7
19	86.10	1934.10	1916.10	1917.09	1906.12	1888.11	1889.09	1951.14	1933.13	1934.10	1950.13	967.56	953.56	976.07	L	599.30	581.29	582.28	573.32	555.31	556.30	556.30	538.29	539.27	557.31	539.29	540.28	300.15	287.16	278.65	279.15	6
20	30.03	1991.13	1973.12	1974.11	1963.14	1945.13	1946.11	2008.16	1990.15	1991.13	2007.15	996.07	982.07	1004.58	G	486.22	468.21	469.19	460.24	442.23	443.21	443.21	425.20	426.19	444.22	426.21	427.19	243.61	230.62	222.11	222.61	5
21	60.04	2078.16	2060.15	2061.14	2050.17	2032.16	2033.14	2095.19	2077.15	2078.16	2094.19	1039.58	1025.59	1048.10	S	429.20	411.19	412.17	403.22	385.21	386.19	386.19	368.18	369.16	387.20	369.19	370.17	215.10	202.11	193.60	194.10	4
22	70.07	2175.21	2157.21	2158.19	2147.22	2129.21	2130.20	2192.25	2174.24	2175.21	2191.24	1088.11	1074.11	1096.62	P	342.17	324.16	325.14	316.19	298.18	299.16	299.16	281.15	282.13	300.17	282.16	283.14	171.58	158.59	150.08	150.58	3
23	86.10	2288.29	2270.29	2271.28	2260.30	2242.30	2243.28	2305.33	2287.32	2288.29	2304.32	1144.65	1130.65	1153.17	L	245.11	227.10	228.09	219.13	201.12	202.11	202.11	184.10	185.08	203.11	185.10	186.09	123.06	110.07	101.55	102.06	2
24	60.04														S	132.03	114.02	115.00	106.05	88.04	89.02	89.02	71.01	72.00	90.03	72.02	73.00	66.51	53.52	45.01	45.52	1



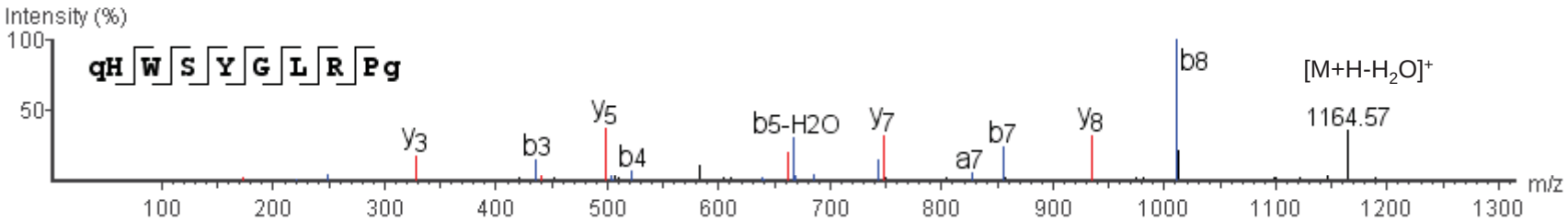
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Neuromedin-B	Q9CR53|NMB_MOUSE		P.FNWDLPEPRSRASKIRVHP.R	70.38	19	577.0643	4



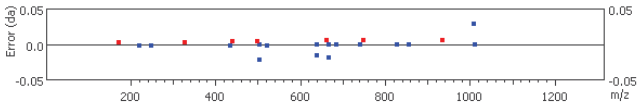
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	120.08	148.08	130.07	131.05	120.08	102.07	103.05	165.10	147.09	148.08	164.10	74.54	60.54	83.05	F																	19
2	87.06	262.12	244.11	245.09	234.12	216.11	217.10	279.15	261.14	262.12	278.14	131.56	117.56	140.07	N	2184.14	2166.13	2167.12	2158.16	2140.15	2141.14	2141.14	2123.13	2124.11	2142.14	2124.13	2125.12	1092.57	1079.58	1071.07	1071.57	18
3	159.09	448.20	430.19	431.17	420.20	402.19	403.18	465.23	447.21	448.20	464.22	224.60	210.60	233.11	W	2070.10	2052.09	2053.07	2044.12	2026.11	2027.09	2027.09	2009.08	2010.07	2028.10	2010.09	2011.07	1035.55	1022.56	1014.05	1014.55	17
4	88.04	563.23	545.19	546.20	535.23	517.22	518.20	580.25	562.24	563.23	579.24	282.11	268.12	290.63	D	1884.02	1866.01	1866.99	1858.04	1840.03	1841.01	1841.01	1823.00	1823.99	1842.02	1824.01	1824.99	942.51	929.52	921.01	921.51	16
5	86.10	676.31	658.30	659.32	648.31	630.30	631.29	693.34	675.33	676.31	692.33	338.65	324.66	347.17	L	1768.99	1750.98	1751.97	1743.01	1725.00	1725.99	1725.99	1707.98	1708.96	1726.99	1708.98	1709.97	885.00	872.01	863.49	864.00	15
6	70.07	773.36	755.35	756.34	745.33	727.36	728.34	790.39	772.38	773.36	789.38	387.18	373.18	395.69	P	1655.91	1637.90	1638.88	1629.93	1611.92	1612.90	1612.90	1594.89	1595.88	1613.91	1595.90	1596.88	828.45	815.46	806.95	807.46	14
7	102.06	902.39	884.39	885.38	874.41	856.40	857.38	919.43	901.42	902.39	918.42	451.70	437.70	460.22	E	1558.86	1540.85	1541.83	1532.88	1514.87	1515.85	1515.85	1497.84	1498.82	1516.86	1498.85	1499.83	779.93	766.94	758.42	758.93	13
8	70.07	999.46	981.45	982.43	971.46	953.45	954.44	1016.48	998.47	999.46	1015.48	500.23	486.23	508.74	P	1429.81	1411.80	1412.79	1403.83	1385.82	1386.81	1386.81	1368.80	1369.78	1387.81	1369.80	1370.79	715.41	702.42	693.90	694.41	12
9	129.11	1155.56	1137.55	1138.53	1127.56	1109.55	1110.54	1172.59	1154.58	1155.56	1171.58	578.28	564.28	586.79	R	1332.76	1314.75	1315.73	1306.78	1288.77	1289.75	1289.75	1271.74	1272.73	1290.76	1272.75	1273.74	666.88	653.89	645.38	645.88	11
10	60.04	1242.59	1224.58	1225.56	1214.60	1196.59	1197.57	1259.62	1241.61	1242.59	1258.61	621.80	607.80	630.31	S	1176.66	1158.65	1159.63	1150.68	1132.67	1133.65	1133.65	1115.64	1116.63	1134.66	1116.65	1117.63	588.83	575.84	567.33	567.83	10
11	129.11	1398.69	1380.68	1381.66	1370.70	1352.69	1353.67	1415.72	1397.71	1398.69	1414.71	699.85	685.85	708.36	R	1089.63	1071.62	1072.60	1063.65	1045.64	1046.62	1046.62	1028.61	1029.59	1047.63	1029.62	1030.60	545.31	532.32	523.81	524.31	9
12	44.05	1469.73	1451.72	1452.70	1441.73	1423.72	1424.71	1486.76	1468.75	1469.73	1485.75	735.36	721.37	743.88	A	933.53	915.52	916.50	907.55	889.54	890.52	890.52	872.51	873.49	891.53	873.52	874.50	467.26	454.27	445.76	446.26	8
13	60.04	1556.76	1538.75	1539.73	1528.77	1510.76	1511.74	1573.79	1555.78	1556.76	1572.78	778.88	764.88	787.39	S	862.49	844.48	845.46	836.51	818.50	819.48	819.48	801.47	802.46	820.49	802.48	803.46	431.74	418.76	410.24	410.75	7
14	101.11	1684.86	1666.85	1667.83	1656.86	1638.85	1639.83	1701.88	1683.87	1684.86	1700.88	842.93	828.93	851.44	K	775.46	757.45	758.43	749.48	731.47	732.45	732.45	714.44	715.42	733.46	715.45	716.43	388.23	375.24	366.73	367.23	6
15	86.10	1797.94	1779.93	1780.91	1769.94	1751.93	1752.92	1814.97	1796.96	1797.94	1813.96	899.47	885.47	907.98	I	647.36	629.35	630.38	621.38	603.37	604.36	604.36	586.35	587.33	605.36	587.35	588.34	324.18	311.19	302.68	303.18	5
16	129.11	1954.04	1936.03	1937.01	1926.05	1908.04	1909.02	1971.07	1953.06	1954.04	1970.06	977.52	963.52	986.03	R	534.28	516.29	517.25	508.30	490.29	491.27	491.27	473.26	474.25	492.28	474.27	475.25	267.64	254.65	246.14	246.64	4
17	72.08	2053.11	2035.10	2036.08	2025.11	2007.10	2008.09	2070.14	2052.13	2053.11	2069.13	1027.05	1013.06	1035.57	V	378.18	360.17	361.15	352.20	334.19	335.17	335.17	317.16	318.14	336.18	318.17	319.15	189.59	176.60	168.09	168.59	3
18	110.07	2190.15	2172.16	2173.14	2162.17	2144.16	2145.15	2207.20	2189.18	2190.15	2206.19	1095.58	1081.59	1104.10	H	279.11	261.10	262.12	253.13	235.12	236.10	236.10	218.09	219.08	237.11	219.10	220.08	140.05	127.06	118.55	119.06	2
19	70.07														P	142.05	124.04	125.02	116.07	98.06	99.04	99.04	81.03	82.02	100.05	82.04	83.02	71.52	58.54	50.02	50.53	1



Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Progonadoliberin-1	P13562|GON1_MOUSE	Gonadoliberin-1	S.Q(-17.03)HWSYGLRPG(-.98).G	103.86	2.8	5917954	2

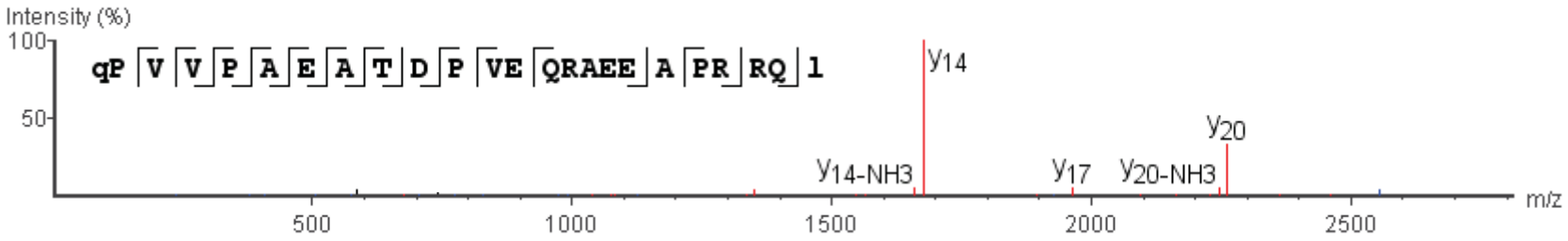


#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	10
2	110.07	249.10	231.08	232.07	221.10	203.09	204.07	266.12	248.11	249.10	265.11	125.05	111.05	133.56	H	1097.53	1079.52	1080.50	1071.55	1053.54	1054.53	1054.53	1036.51	1037.50	1055.53	1037.52	1038.51	549.27	536.28	527.76	528.27	9
3	159.09	435.18	417.16	418.15	407.18	389.17	390.15	452.20	434.19	435.18	451.19	218.09	204.09	226.60	W	960.47	942.46	943.45	934.49	916.48	917.47	917.47	899.46	900.44	918.47	900.46	901.45	480.74	467.75	459.23	459.74	8
4	60.04	522.21	504.20	505.20	494.21	476.20	477.18	539.23	521.22	522.21	538.23	261.60	247.61	270.12	S	774.39	756.38	757.37	748.41	730.40	731.39	731.39	713.38	714.36	732.39	714.38	715.37	387.70	374.71	366.19	366.70	7
5	136.08	685.27	667.26	668.26	657.27	639.27	640.26	702.30	684.29	685.27	701.29	343.13	329.14	351.65	Y	687.36	669.35	670.33	661.38	643.37	644.36	644.36	626.34	627.33	645.36	627.35	628.34	344.18	331.19	322.68	323.18	6
6	30.03	742.29	724.28	725.26	714.30	696.29	697.27	759.32	741.31	742.29	758.31	371.65	357.65	380.16	G	524.30	506.29	507.27	498.31	480.31	481.29	481.29	463.28	464.26	482.30	464.29	465.27	262.65	249.66	241.15	241.65	5
7	86.10	855.38	837.36	838.35	827.38	809.37	810.35	872.40	854.39	855.38	871.39	428.19	414.19	436.70	L	467.28	449.27	450.25	441.29	423.29	424.27	424.27	406.26	407.24	425.28	407.27	408.25	234.14	221.15	212.64	213.14	4
8	129.11	1011.48	993.47	994.45	983.48	965.47	966.45	1028.50	1010.46	1011.48	1027.50	506.24	492.24	514.75	R	354.19	336.18	337.17	328.21	310.20	311.19	311.19	293.18	294.16	312.19	294.18	295.17	177.60	164.61	156.09	156.60	3
9	70.07	1108.53	1090.52	1091.50	1080.53	1062.52	1063.51	1125.56	1107.55	1108.53	1124.55	554.76	540.77	563.28	P	198.09	180.08	181.06	172.11	154.10	155.09	155.09	137.07	138.06	156.09	138.08	139.07	99.55	86.56	78.04	78.55	2
10	29.05														G(-.98)	101.04	83.03	84.01	75.06	57.05	58.03	58.03	40.02	41.01	59.04	41.03	42.01	51.02	38.03	29.52	30.02	1

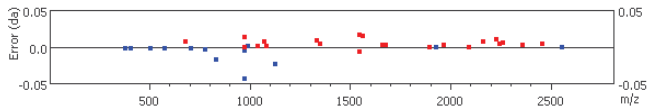


Supplementary Fig.S4

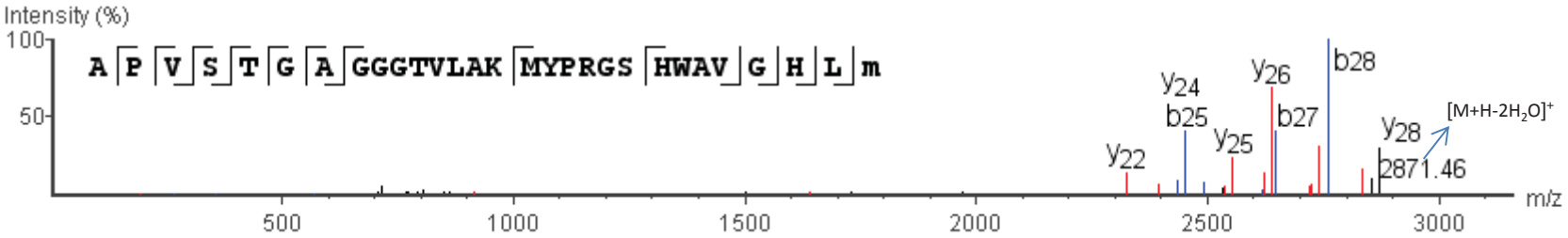
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Cholecystokinin	P09240|CCKN_MOUSE		A.Q(-17.03)PVVPAEATDPVEQRAEEAPRRQL(-.98).R	75.8	-0.5	890.131	3



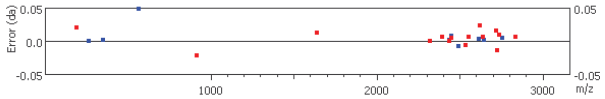
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	24
2	70.07	209.09	191.08	192.06	181.09	163.08	164.07	226.12	208.11	209.09	225.11	105.04	91.05	113.56	P	2583.33	2565.32	2566.30	2557.35	2539.34	2540.32	2540.32	2522.31	2523.30	2541.33	2523.32	2524.31	1292.17	1279.18	1270.66	1271.17	23
3	72.08	308.16	290.15	291.13	280.16	262.15	263.14	325.18	307.17	308.16	324.18	154.58	140.58	163.09	V	2486.28	2468.27	2469.25	2460.29	2442.29	2443.27	2443.27	2425.26	2426.25	2444.28	2426.27	2427.25	1243.64	1230.65	1222.14	1222.64	22
4	72.08	407.23	389.22	390.20	379.23	361.22	362.20	424.25	406.24	407.23	423.25	204.11	190.12	212.63	V	2387.21	2369.20	2370.18	2361.23	2343.22	2344.20	2344.20	2326.19	2327.18	2345.21	2327.20	2328.18	1194.11	1181.12	1172.60	1173.11	21
5	70.07	504.28	486.27	487.25	476.28	458.27	459.26	521.31	503.30	504.28	520.30	252.64	238.64	261.15	P	2288.14	2270.13	2271.11	2262.15	2244.15	2245.13	2245.13	2227.11	2228.11	2246.14	2228.13	2229.12	1144.57	1131.58	1123.07	1123.57	20
6	44.05	575.32	557.31	558.29	547.32	529.31	530.29	592.34	574.33	575.32	591.34	288.16	274.16	296.67	A	2191.09	2173.08	2174.06	2165.10	2147.10	2148.08	2148.08	2130.07	2131.06	2149.09	2131.08	2132.06	1096.04	1083.05	1074.54	1075.04	19
7	102.06	704.36	686.35	687.33	676.36	658.35	659.34	721.39	703.37	704.36	720.38	352.68	338.68	361.19	E	2120.05	2102.04	2103.02	2094.07	2076.06	2077.05	2077.05	2059.03	2060.02	2078.05	2060.04	2061.03	1060.53	1047.54	1039.02	1039.53	18
8	44.05	775.40	757.38	758.37	747.40	729.39	730.37	792.42	774.41	775.40	791.41	388.20	374.20	396.71	A	1991.01	1973.00	1973.98	1965.03	1947.02	1948.00	1948.00	1929.99	1930.98	1949.01	1931.00	1931.98	996.00	983.02	974.49	975.00	17
9	74.06	876.44	858.43	859.42	848.45	830.46	831.42	893.47	875.46	876.44	892.46	438.72	424.72	447.24	T	1919.97	1901.96	1902.95	1893.99	1875.98	1876.97	1876.97	1858.96	1859.94	1877.97	1859.96	1860.95	960.49	947.50	938.98	939.49	16
10	88.04	991.47	973.46	974.49	963.48	945.46	946.45	1008.50	990.49	991.47	1007.49	496.24	482.24	504.75	D	1818.92	1800.91	1801.90	1792.95	1774.93	1775.92	1775.92	1757.91	1758.89	1776.93	1758.92	1759.90	909.96	896.97	888.46	888.96	15
11	70.07	1088.52	1070.51	1071.50	1060.53	1042.52	1043.50	1105.55	1087.54	1088.52	1104.54	544.76	530.76	553.27	P	1703.90	1685.89	1686.87	1677.91	1659.91	1660.89	1660.89	1642.88	1643.86	1661.90	1643.89	1644.87	852.45	839.46	830.95	831.45	14
12	72.08	1187.59	1169.58	1170.56	1159.60	1141.59	1142.57	1204.62	1186.61	1187.59	1203.61	594.30	580.30	602.81	V	1606.84	1588.83	1589.82	1580.87	1562.85	1563.84	1563.84	1545.83	1546.82	1564.85	1546.82	1547.82	803.92	790.93	782.42	782.92	13
13	102.06	1316.63	1298.62	1299.61	1288.64	1270.63	1271.61	1333.66	1315.65	1316.63	1332.65	658.82	644.82	667.33	E	1507.78	1489.77	1490.75	1481.80	1463.79	1464.77	1464.77	1446.76	1447.74	1465.78	1447.77	1448.75	754.39	741.40	732.89	733.39	12
14	101.07	1444.69	1426.68	1427.67	1416.70	1398.69	1399.67	1461.72	1443.71	1444.69	1460.71	722.85	708.85	731.36	Q	1378.73	1360.72	1361.71	1352.75	1334.74	1335.72	1335.72	1317.72	1318.70	1336.74	1318.72	1319.71	689.87	676.88	668.36	668.87	11
15	129.11	1600.79	1582.78	1583.77	1572.80	1554.79	1555.77	1617.82	1599.81	1600.79	1616.81	800.90	786.90	809.41	R	1250.68	1232.66	1233.65	1224.70	1206.69	1207.67	1207.67	1189.66	1190.64	1208.68	1190.67	1191.65	625.84	612.85	604.33	604.84	10
16	44.05	1671.83	1653.82	1654.80	1643.84	1625.83	1626.81	1688.86	1670.85	1671.83	1687.85	836.42	822.42	844.93	A	1094.57	1076.56	1077.55	1068.59	1050.58	1051.57	1051.57	1033.56	1034.54	1052.58	1034.57	1035.55	547.79	534.80	526.28	526.79	9
17	102.06	1800.87	1782.86	1783.85	1772.88	1754.87	1755.85	1817.90	1799.89	1800.87	1816.89	900.94	886.94	909.45	E	1023.54	1005.53	1006.51	997.56	979.55	980.53	980.53	962.52	963.50	981.54	963.53	964.51	512.27	499.28	490.77	491.27	8
18	102.06	1929.92	1911.91	1912.89	1901.92	1883.91	1884.89	1946.94	1928.93	1929.92	1945.94	965.46	951.46	973.97	E	894.49	876.48	877.47	868.52	850.50	851.49	851.49	833.48	834.46	852.50	834.49	835.47	447.75	434.76	426.24	426.75	7
19	44.05	2000.95	1982.94	1983.93	1972.96	1954.95	1955.93	2017.98	1999.97	2000.95	2016.97	1000.98	986.98	1009.49	A	765.45	747.44	748.42	739.47	721.46	722.45	722.45	704.43	705.42	723.45	705.44	706.43	383.23	370.24	361.72	362.23	6
20	70.07	2098.01	2080.00	2080.98	2070.01	2052.00	2052.98	2115.03	2097.02	2098.01	2114.03	1049.50	1035.51	1058.02	P	694.41	676.40	677.38	668.44	650.42	651.41	651.41	633.40	634.38	652.42	634.41	635.39	347.71	334.72	326.20	326.71	5
21	129.11	2254.11	2236.10	2237.08	2226.11	2208.10	2209.08	2271.13	2253.12	2254.11	2270.13	1127.58	1113.56	1136.07	R	597.36	579.35	580.34	571.38	553.37	554.36	554.36	536.35	537.33	555.36	537.35	538.34	299.18	286.19	277.68	278.18	4
22	129.11	2410.21	2392.20	2393.18	2382.21	2364.20	2365.19	2427.24	2409.22	2410.21	2426.23	1205.60	1191.61	1214.12	R	441.26	423.25	424.23	415.28	397.27	398.25	398.25	380.24	381.23	399.26	381.25	382.24	221.13	208.14	199.63	200.13	3
23	101.07	2538.27	2520.26	2521.24	2510.27	2492.26	2493.24	2555.29	2537.28	2538.27	2554.29	1269.63	1255.64	1278.15	Q	285.16	267.15	268.13	259.18	241.17	242.15	242.15	224.14	225.13	243.16	225.15	226.13	143.08	130.09	121.58	122.08	2
24	85.12														L(-.98)	157.10	139.09	140.07	131.12	113.11	114.09	114.09	96.08	97.07	115.10	97.09	98.08	79.05	66.06	57.55	58.05	1



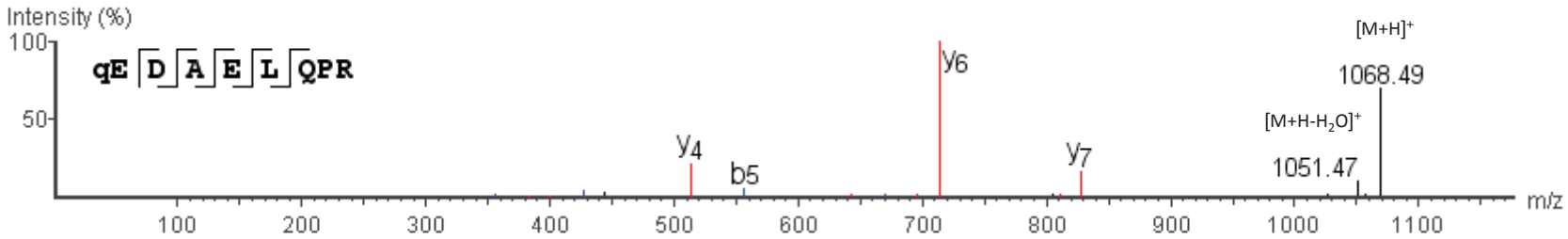
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Gastrin-releasing peptide	Q8R112|GRP_MOUSE	Gastrin-releasing peptide	A.APVSTGAGGGTVLAKMYPRGSHWAVGHLM(-.98).G	66.58	6.5	727.6319	4



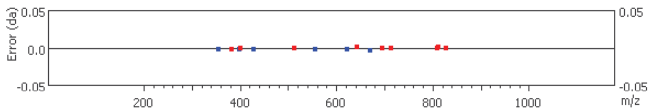
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	44.05	72.04	54.03	55.02	44.05	26.04	27.02	89.07	71.06	72.04	88.06	36.52	22.52	45.04	A																	29
2	70.07	169.10	151.09	152.07	141.10	123.09	124.08	186.12	168.11	169.10	185.12	85.05	71.05	93.56	P	2862.43	2844.42	2845.41	2836.45	2818.44	2819.43	2819.43	2801.42	2802.40	2820.43	2802.42	2803.41	1431.72	1418.73	1410.21	1410.72	28
3	72.08	268.17	250.16	251.14	240.17	222.16	223.14	285.19	267.18	268.17	284.19	134.58	120.59	143.10	V	2765.38	2747.37	2748.35	2739.39	2721.39	2722.36	2722.36	2704.36	2705.35	2723.40	2705.37	2706.35	1383.19	1370.20	1361.69	1362.19	27
4	60.04	355.20	337.19	338.17	327.20	309.19	310.18	372.23	354.21	355.20	371.22	178.10	164.10	186.61	S	2666.31	2648.30	2649.28	2640.33	2622.30	2623.31	2623.31	2605.29	2606.28	2624.31	2606.30	2607.29	1333.66	1320.67	1312.15	1312.66	26
5	74.06	456.25	438.24	439.22	428.25	410.24	411.22	473.27	455.26	456.25	472.26	228.62	214.63	237.14	T	2579.28	2561.27	2562.25	2553.29	2535.29	2536.28	2536.28	2518.26	2519.25	2537.28	2519.27	2520.25	1290.14	1277.15	1268.64	1269.14	25
6	30.03	513.27	495.26	496.24	485.27	467.26	468.25	530.29	512.28	513.27	529.29	257.13	243.14	265.65	G	2478.23	2460.22	2461.21	2452.25	2434.24	2435.23	2435.23	2417.22	2418.20	2436.23	2418.22	2419.21	1239.62	1226.63	1218.11	1218.62	24
7	44.05	584.30	566.29	567.23	556.31	538.30	539.28	601.33	583.32	584.30	600.32	292.65	278.65	301.17	A	2421.21	2403.20	2404.18	2395.23	2377.22	2378.20	2378.20	2360.19	2361.18	2379.21	2361.20	2362.19	1211.11	1198.12	1189.60	1190.11	23
8	30.03	641.33	623.32	624.30	613.33	595.32	596.30	658.35	640.34	641.33	657.34	321.16	307.17	329.68	G	2350.17	2332.16	2333.15	2324.19	2306.18	2307.17	2307.17	2289.16	2290.14	2308.18	2290.16	2291.15	1175.59	1162.60	1154.08	1154.59	22
9	30.03	698.35	680.34	681.32	670.35	652.34	653.33	715.37	697.36	698.35	714.37	349.67	335.68	358.19	G	2293.15	2275.14	2276.13	2267.17	2249.16	2250.15	2250.15	2232.14	2233.12	2251.15	2233.14	2234.13	1147.08	1134.09	1125.57	1126.08	21
10	30.03	755.37	737.36	738.34	727.37	709.36	710.35	772.40	754.39	755.37	771.39	378.18	364.19	386.70	G	2236.13	2218.12	2219.10	2210.15	2192.14	2193.12	2193.12	2175.11	2176.10	2194.13	2176.12	2177.11	1118.57	1105.58	1097.06	1097.57	20
11	74.06	856.42	838.41	839.39	828.42	810.41	811.39	873.44	855.43	856.42	872.44	428.71	414.71	437.22	T	2179.11	2161.10	2162.08	2153.13	2135.12	2136.10	2136.10	2118.09	2119.08	2137.11	2119.10	2120.08	1090.05	1077.06	1068.55	1069.06	19
12	72.08	955.48	937.47	938.46	927.49	909.48	910.46	972.51	954.50	955.48	971.50	478.24	464.24	486.76	V	2078.06	2060.05	2061.03	2052.08	2034.07	2035.06	2035.06	2017.04	2018.03	2036.06	2018.05	2019.04	1039.53	1026.54	1018.03	1018.53	18
13	86.10	1068.57	1050.56	1051.54	1040.57	1022.56	1023.55	1085.60	1067.59	1068.57	1084.59	534.78	520.79	543.30	L	1978.99	1960.98	1961.97	1953.01	1935.00	1935.99	1935.99	1917.98	1918.96	1936.99	1918.98	1919.97	990.00	977.01	968.49	969.00	17
14	44.05	1139.61	1121.60	1122.58	1111.61	1093.60	1094.58	1156.63	1138.62	1139.61	1155.63	570.30	556.31	578.82	A	1865.91	1847.90	1848.88	1839.93	1821.92	1822.90	1822.90	1804.89	1805.88	1823.91	1805.90	1806.88	933.45	920.46	911.95	912.46	16
15	101.11	1267.70	1249.69	1250.67	1239.71	1221.70	1222.68	1284.73	1266.72	1267.70	1283.72	634.35	620.35	642.86	K	1794.87	1776.86	1777.84	1768.89	1750.88	1751.87	1751.87	1733.85	1734.84	1752.87	1734.86	1735.85	897.94	884.95	876.43	876.94	15
16	104.05	1398.74	1380.73	1381.71	1370.75	1352.74	1353.72	1415.77	1397.76	1398.74	1414.76	699.87	685.87	708.38	M	1666.78	1648.77	1649.75	1640.78	1622.79	1623.77	1623.77	1605.76	1606.74	1624.78	1606.77	1607.75	833.89	820.90	812.39	812.89	14
17	136.08	1561.80	1543.79	1544.78	1533.81	1515.80	1516.78	1578.83	1560.82	1561.80	1577.82	781.40	767.40	789.92	Y	1535.74	1517.73	1518.71	1509.76	1491.75	1492.73	1492.73	1474.72	1475.70	1493.74	1475.73	1476.71	768.37	755.38	746.87	747.37	13
18	70.07	1658.86	1640.85	1641.83	1630.86	1612.85	1613.84	1675.88	1657.87	1658.86	1674.88	829.93	815.93	838.44	P	1372.67	1354.66	1355.65	1346.69	1328.68	1329.67	1329.67	1311.66	1312.64	1330.67	1312.66	1313.65	686.84	673.85	665.33	665.84	12
19	129.11	1814.96	1796.95	1797.93	1786.96	1768.95	1769.94	1831.99	1813.98	1814.96	1830.98	907.98	893.98	916.49	R	1275.62	1257.61	1258.59	1249.64	1231.63	1232.61	1232.61	1214.60	1215.59	1233.62	1215.61	1216.59	638.31	625.32	616.81	617.31	11
20	30.03	1871.98	1853.97	1854.95	1843.99	1825.97	1826.96	1889.01	1871.00	1871.98	1888.00	936.49	922.49	945.00	G	1119.62	1101.61	1102.49	1093.54	1075.53	1076.51	1076.51	1058.50	1059.49	1077.52	1059.51	1060.49	560.26	547.27	538.76	539.26	10
21	60.04	1959.01	1941.00	1941.99	1931.02	1913.01	1913.99	1976.04	1958.03	1959.01	1975.03	980.01	966.01	988.52	S	1062.50	1044.49	1045.47	1036.52	1018.51	1019.49	1019.49	1001.48	1002.46	1020.50	1002.49	1003.47	531.75	518.76	510.25	510.75	9
22	110.07	2096.07	2078.06	2079.04	2068.08	2050.07	2051.05	2113.10	2095.09	2096.07	2112.09	1048.54	1034.54	1057.05	H	975.47	957.46	958.44	949.49	931.48	932.46	932.46	914.47	915.43	933.47	915.46	916.44	488.23	475.24	466.73	467.23	8
23	159.09	2282.15	2264.14	2265.12	2254.16	2236.14	2237.13	2299.18	2281.17	2282.15	2298.17	1141.58	1127.58	1150.09	W	838.41	820.40	821.38	812.43	794.42	795.40	795.40	777.39	778.37	796.41	778.40	779.38	419.70	406.71	398.20	398.70	7
24	44.05	2353.19	2335.18	2336.16	2325.19	2307.18	2308.17	2370.21	2352.20	2353.19	2369.21	1177.09	1163.10	1185.61	A	652.33	634.32	635.30	626.35	608.34	609.32	609.32	591.31	592.29	610.33	592.32	593.30	326.66	313.67	305.16	305.66	6
25	72.08	2452.25	2434.25	2435.23	2424.26	2406.25	2407.23	2469.28	2451.27	2452.25	2468.28	1226.63	1212.63	1235.14	V	581.29	563.28	564.26	555.31	537.30	538.28	538.28	520.27	521.26	539.29	521.28	522.27	291.15	278.16	269.64	270.15	5
26	30.03	2509.28	2491.27	2492.26	2481.28	2463.27	2464.26	2526.30	2508.29	2509.28	2525.30	1255.14	1241.14	1263.65	G	482.22	464.21	465.20	456.24	438.23	439.22	439.22	421.21	422.19	440.22	422.21	423.20	241.61	228.62	220.11	220.61	4
27	110.07	2646.33	2628.33	2629.31	2618.34	2600.33	2601.31	2663.36	2645.35	2646.33	2662.36	1323.67	1309.67	1332.18	H	425.20	407.19	408.17	399.22	381.21	382.19	382.19	364.18	365.17	383.20	365.19	366.18	213.10	200.11	191.60	192.08	3
28	86.10	2759.42	2741.41	2742.39	2731.43	2713.41	2714.40	2776.45	2758.44	2759.42	2775.44	1380.21	1366.21	1388.72	L	288.14	270.13	271.11	262.16	244.15	245.14	245.14	227.12	228.11	246.14	228.13	229.12	144.57	131.58	123.07	123.57	2
29	103.07														M(-.98)	175.06	157.05	158.03	149.08	131.07	132.05	132.05	114.04	115.02	133.06	115.05	116.03	88.03	75.04	66.53	67.03	1



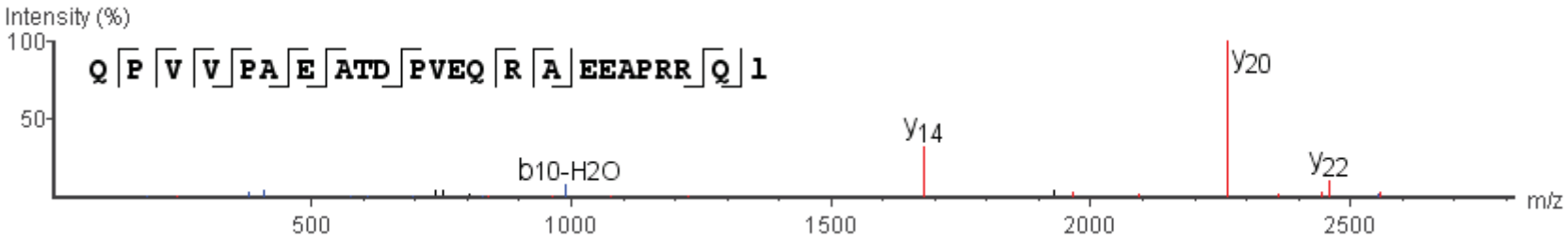
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Cocaine- and amphetamine-regulated transcript prote	P56388|CART_MOUSE		A.Q(-17.03)EDAELQPR.A	92.6	11	1068.497	1



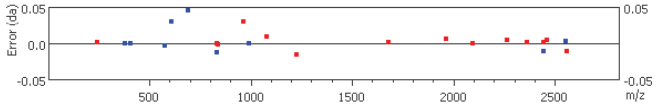
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	9
2	102.06	241.08	223.07	224.05	213.08	195.07	196.06	258.11	240.10	241.08	257.10	121.04	107.04	129.55	E	983.44	965.43	966.42	957.46	939.45	940.44	940.44	922.43	923.41	941.44	923.43	924.42	492.22	479.23	470.72	471.22	8
3	88.04	356.11	338.10	339.08	328.11	310.10	311.08	373.13	355.12	356.11	372.13	178.55	164.56	187.07	D	854.40	836.39	837.37	828.42	810.41	811.39	811.39	793.38	794.37	812.40	794.39	795.37	427.70	414.71	406.20	406.70	7
4	44.05	427.15	409.13	410.12	399.15	381.14	382.12	444.17	426.16	427.15	443.16	214.07	200.07	222.59	A	739.37	721.36	722.35	713.39	695.38	696.37	696.37	678.36	679.34	697.37	679.36	680.35	370.19	357.20	348.68	349.19	6
5	102.06	556.19	538.18	539.16	528.19	510.18	511.16	573.21	555.20	556.19	572.20	278.59	264.60	287.11	E	668.34	650.33	651.31	642.36	624.35	625.33	625.33	607.32	608.30	626.34	608.33	609.31	334.67	321.68	313.16	313.67	5
6	86.10	669.27	651.26	652.24	641.27	623.27	624.25	686.30	668.29	669.27	685.29	335.13	321.14	343.65	L	539.29	521.28	522.27	513.31	495.30	496.29	496.29	478.28	479.26	497.30	479.28	480.27	270.15	257.16	248.64	249.15	4
7	101.07	797.33	779.32	780.30	769.33	751.32	752.31	814.36	796.34	797.33	813.35	399.16	385.17	407.68	Q	426.21	408.20	409.18	400.23	382.22	383.21	383.21	365.19	366.18	384.21	366.20	367.18	213.60	200.62	192.10	192.61	3
8	70.07	894.38	876.37	877.35	866.39	848.38	849.36	911.41	893.40	894.38	910.40	447.69	433.69	456.20	P	298.15	280.14	281.12	272.17	254.16	255.14	255.14	237.13	238.12	256.15	238.14	239.13	149.58	136.59	128.07	128.58	2
9	129.11														R	201.10	183.09	184.07	175.12	157.11	158.09	158.09	140.08	141.06	159.10	141.09	142.07	101.05	88.06	79.55	80.05	1



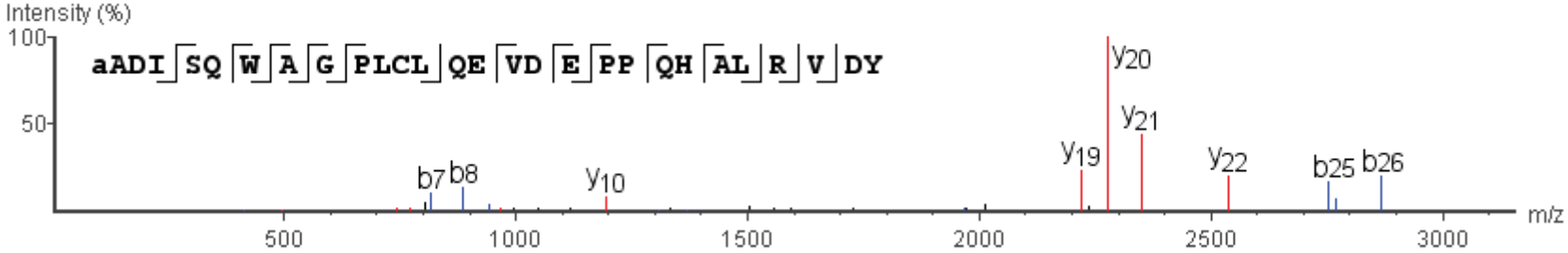
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Cholecystokinin	P09240|CCKN_MOUSE		A.QPVVPAEATDPVEQRAEEAPRRQL(-.98).R	60.43	2.1	672.1085	4



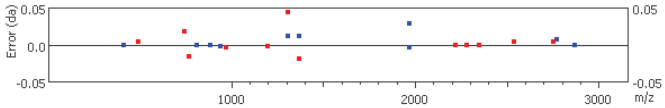
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	101.07	129.07	111.06	112.04	101.07	83.06	84.04	146.09	128.08	129.07	145.09	65.03	51.04	73.55	Q																	24
2	70.07	226.12	208.11	209.09	198.12	180.11	181.10	243.15	225.14	226.12	242.14	113.56	99.56	122.07	P	2583.33	2565.32	2566.30	2557.36	2539.34	2540.32	2540.32	2522.31	2523.30	2541.33	2523.32	2524.31	1292.17	1279.18	1270.66	1271.17	23
3	72.08	325.19	307.18	308.16	297.19	279.18	280.17	342.21	324.20	325.19	341.21	163.09	149.10	171.61	V	2486.28	2468.27	2469.25	2460.29	2442.29	2443.27	2443.27	2425.26	2426.25	2444.28	2426.27	2427.25	1243.64	1230.65	1222.14	1222.64	22
4	72.08	424.26	406.25	407.23	396.26	378.25	379.23	441.28	423.27	424.26	440.28	212.63	198.63	221.14	V	2387.21	2369.20	2370.18	2361.23	2343.22	2344.20	2344.20	2326.19	2327.18	2345.21	2327.20	2328.18	1194.11	1181.12	1172.60	1173.11	21
5	70.07	521.31	503.30	504.28	493.31	475.30	476.29	538.34	520.33	521.31	537.33	261.15	247.16	269.67	P	2288.14	2270.13	2271.11	2262.16	2244.15	2245.14	2245.14	2227.12	2228.11	2246.14	2228.13	2229.12	1144.57	1131.58	1123.07	1123.57	20
6	44.05	592.35	574.34	575.32	564.35	546.34	547.32	609.34	591.36	592.35	608.36	296.67	282.68	305.19	A	2191.09	2173.08	2174.06	2165.11	2147.10	2148.08	2148.08	2130.07	2131.06	2149.09	2131.08	2132.06	1096.04	1083.05	1074.54	1075.05	19
7	102.06	721.39	703.38	704.36	693.35	675.38	676.37	738.42	720.40	721.39	737.41	361.19	347.20	369.71	E	2120.05	2102.04	2103.02	2094.07	2076.06	2077.05	2077.05	2059.03	2060.02	2078.05	2060.04	2061.03	1060.53	1047.54	1039.02	1039.53	18
8	44.05	792.43	774.41	775.40	764.43	746.42	747.40	809.45	791.44	792.43	808.44	396.71	382.72	405.23	A	1991.01	1973.00	1973.98	1965.02	1947.02	1948.00	1948.00	1929.99	1930.98	1949.01	1931.00	1931.98	996.00	983.02	974.50	975.01	17
9	74.06	893.47	875.46	876.45	865.48	847.47	848.45	910.50	892.49	893.47	909.49	447.24	433.24	455.75	T	1919.97	1901.96	1902.95	1893.99	1875.98	1876.97	1876.97	1858.96	1859.94	1877.97	1859.96	1860.95	960.49	947.50	938.98	939.49	16
10	88.04	1008.50	990.49	991.47	980.51	962.49	963.48	1025.53	1007.52	1008.50	1024.52	504.75	490.75	513.26	D	1818.92	1800.91	1801.90	1792.95	1774.93	1775.92	1775.92	1757.91	1758.89	1776.93	1758.92	1759.90	909.96	896.97	888.46	888.96	15
11	70.07	1105.55	1087.54	1088.53	1077.56	1059.55	1060.53	1122.58	1104.57	1105.55	1121.57	553.28	539.28	561.79	P	1703.90	1685.89	1686.87	1677.92	1659.91	1660.89	1660.89	1642.88	1643.86	1661.90	1643.89	1644.87	852.45	839.46	830.95	831.45	14
12	72.08	1204.62	1186.61	1187.59	1176.63	1158.62	1159.60	1221.65	1203.64	1204.62	1220.64	602.81	588.81	611.32	V	1606.84	1588.83	1589.82	1580.87	1562.85	1563.84	1563.84	1545.83	1546.81	1564.85	1546.84	1547.82	803.92	790.93	782.42	782.92	13
13	102.06	1333.66	1315.65	1316.64	1305.67	1287.66	1288.64	1350.69	1332.68	1333.66	1349.68	667.33	653.33	675.85	E	1507.78	1489.77	1490.75	1481.80	1463.79	1464.77	1464.77	1446.76	1447.74	1465.78	1447.77	1448.75	754.39	741.40	732.89	733.39	12
14	101.07	1461.72	1443.71	1444.70	1433.73	1415.72	1416.70	1478.75	1460.74	1461.72	1477.74	731.36	717.36	739.87	Q	1378.73	1360.72	1361.71	1352.75	1334.74	1335.73	1335.73	1317.72	1318.70	1336.74	1318.72	1319.71	689.87	676.88	668.36	668.87	11
15	129.11	1617.82	1599.81	1600.80	1589.83	1571.82	1572.80	1634.85	1616.84	1617.82	1633.84	809.41	795.41	817.93	R	1250.68	1232.66	1233.65	1224.71	1206.69	1207.67	1207.67	1189.66	1190.64	1208.68	1190.67	1191.65	625.84	612.85	604.33	604.84	10
16	44.05	1688.86	1670.85	1671.83	1660.87	1642.86	1643.84	1705.89	1687.88	1688.86	1704.88	844.93	830.95	853.44	A	1094.57	1076.55	1077.55	1068.59	1050.58	1051.57	1051.57	1033.56	1034.54	1052.58	1034.57	1035.55	547.79	534.80	526.28	526.79	9
17	102.06	1817.90	1799.89	1800.88	1789.91	1771.90	1772.88	1834.93	1816.92	1817.90	1833.92	909.45	895.45	917.97	E	1023.54	1005.53	1006.51	997.56	979.55	980.53	980.53	962.52	963.50	981.54	963.53	964.48	512.27	499.28	490.77	491.27	8
18	102.06	1946.95	1928.94	1929.92	1918.95	1900.94	1901.92	1963.97	1945.96	1946.95	1962.97	973.97	959.98	982.49	E	894.49	876.48	877.47	868.52	850.50	851.49	851.49	833.48	834.46	852.50	834.49	835.47	447.75	434.76	426.24	426.75	7
19	44.05	2017.98	1999.97	2000.96	1989.99	1971.98	1972.96	2035.01	2017.00	2017.98	2034.00	1009.49	995.49	1018.01	A	765.45	747.44	748.42	739.47	721.46	722.45	722.45	704.43	705.42	723.45	705.44	706.43	383.23	370.24	361.72	362.23	6
20	70.07	2115.04	2097.03	2098.01	2087.04	2069.03	2070.01	2132.06	2114.05	2115.04	2131.05	1058.02	1044.02	1066.53	P	694.41	676.40	677.39	668.44	650.42	651.41	651.41	633.40	634.38	652.42	634.41	635.39	347.71	334.72	326.20	326.71	5
21	129.11	2271.14	2253.13	2254.11	2243.14	2225.13	2226.11	2288.16	2270.15	2271.14	2287.16	1136.07	1122.07	1144.58	R	597.36	579.35	580.34	571.38	553.37	554.36	554.36	536.35	537.33	555.36	537.35	538.34	299.18	286.19	277.68	278.18	4
22	129.11	2427.24	2409.23	2410.21	2399.24	2381.23	2382.22	2444.28	2426.25	2427.24	2443.26	1214.12	1200.12	1222.63	R	441.26	423.25	424.23	415.28	397.27	398.25	398.25	380.24	381.23	399.26	381.25	382.24	221.13	208.14	199.63	200.13	3
23	101.07	2555.30	2537.29	2538.27	2527.30	2509.29	2510.27	2572.32	2554.31	2555.30	2571.32	1278.15	1264.15	1286.66	Q	285.16	267.15	268.13	259.18	241.17	242.15	242.15	224.14	225.13	243.16	225.15	226.13	143.08	130.09	121.58	122.08	2
24	85.12														L(-.98)	157.10	139.09	140.07	131.12	113.11	114.09	114.09	96.08	97.07	115.10	97.09	98.08	79.05	66.06	57.55	58.05	1



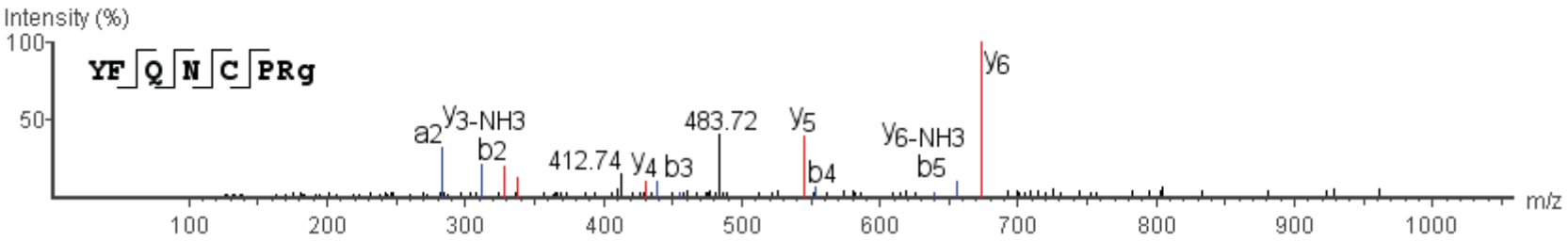
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Phosphatidylethanolamine-binding protein 1	P70296|PEBP1_MOUSE		M.A(+42.01)ADISQWAGPLCLQEVDEPPQHALRVDY.A	63.09	0.5	1055.177	3



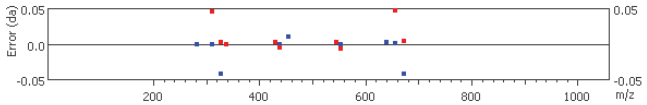
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	86.06	114.05	96.04	97.03	86.06	68.05	69.03	131.08	113.07	114.05	130.07	57.53	43.53	66.04	A(+42.01)																	28
2	44.05	185.09	167.08	168.07	157.10	139.09	140.07	202.12	184.11	185.09	201.11	93.05	79.05	101.56	A	3076.45	3058.44	3059.42	3050.47	3032.46	3033.44	3033.44	3015.43	3016.41	3034.45	3016.44	3017.42	1538.72	1525.73	1517.22	1517.72	27
3	88.04	300.12	282.11	283.09	272.12	254.11	255.10	317.15	299.14	300.12	316.14	150.56	136.56	159.07	D	3005.41	2987.40	2988.38	2979.43	2961.42	2962.40	2962.40	2944.39	2945.38	2963.41	2945.40	2946.38	1503.20	1490.22	1481.70	1482.21	26
4	86.10	413.20	395.19	396.18	385.21	367.20	368.18	430.23	412.22	413.20	429.22	207.10	193.10	215.62	I	2890.38	2872.37	2873.36	2864.40	2846.39	2847.38	2847.38	2829.37	2830.35	2848.38	2830.37	2831.36	1445.69	1432.70	1424.19	1424.69	25
5	60.04	500.24	482.22	483.21	472.24	454.23	455.21	517.26	499.25	500.24	516.25	250.62	236.62	259.13	S	2777.30	2759.29	2760.27	2751.31	2733.31	2734.29	2734.29	2716.28	2717.27	2735.30	2717.29	2718.27	1389.15	1376.16	1367.66	1368.15	24
6	101.07	628.29	610.28	611.27	600.30	582.29	583.27	645.32	627.31	628.29	644.31	314.65	300.65	323.16	Q	2690.27	2672.26	2673.24	2664.29	2646.28	2647.26	2647.26	2629.25	2630.23	2648.27	2630.26	2631.24	1345.63	1332.64	1324.13	1324.63	23
7	159.09	814.37	796.36	797.35	786.38	768.37	769.35	831.40	813.39	814.37	830.39	407.69	393.69	416.20	W	2562.21	2544.20	2545.18	2536.22	2518.22	2519.20	2519.20	2501.19	2502.17	2520.21	2502.20	2503.18	1281.60	1268.61	1260.10	1260.60	22
8	44.05	885.41	867.40	868.38	857.42	839.40	840.39	902.44	884.43	885.41	901.43	443.21	429.21	451.72	A	2376.13	2358.12	2359.10	2350.15	2332.14	2333.12	2333.12	2315.11	2316.10	2334.13	2316.12	2317.10	1188.56	1175.57	1167.06	1167.57	21
9	30.03	942.43	924.42	925.40	914.44	896.43	897.41	959.46	941.45	942.43	958.45	471.72	457.72	480.23	G	2305.09	2287.08	2288.06	2279.11	2261.10	2262.09	2262.09	2244.07	2245.06	2263.09	2245.08	2246.07	1153.05	1140.06	1131.54	1132.05	20
10	70.07	1039.48	1021.47	1022.46	1011.49	993.48	994.46	1056.51	1038.50	1039.48	1055.50	520.24	506.24	528.76	P	2248.07	2230.06	2231.04	2222.09	2204.08	2205.06	2205.06	2187.05	2188.04	2206.07	2188.06	2189.04	1124.54	1111.55	1103.03	1103.54	19
11	86.10	1152.57	1134.56	1135.54	1124.57	1106.56	1107.55	1169.60	1151.58	1152.57	1168.59	576.78	562.79	585.30	L	2151.02	2133.01	2133.99	2125.04	2107.03	2108.01	2108.01	2090.00	2090.98	2109.02	2091.01	2091.99	1076.01	1063.02	1054.51	1055.01	18
12	76.02	1255.58	1237.57	1238.55	1227.58	1209.57	1210.56	1272.60	1254.59	1255.58	1271.60	628.29	614.29	636.80	C	2037.93	2019.92	2020.91	2011.95	1993.94	1994.93	1994.93	1976.92	1977.90	1995.93	1977.92	1978.91	1019.47	1006.48	997.96	998.47	17
13	86.10	1368.66	1350.65	1351.63	1340.67	1322.66	1323.64	1385.69	1367.66	1368.66	1384.68	684.83	670.83	693.34	L	1934.92	1916.91	1917.90	1908.94	1890.93	1891.92	1891.92	1873.91	1874.89	1892.93	1874.92	1875.90	967.96	954.97	946.46	946.96	16
14	101.07	1496.72	1478.71	1479.69	1468.73	1450.71	1451.70	1513.75	1495.74	1496.72	1512.74	748.86	734.86	757.37	Q	1821.84	1803.83	1804.81	1795.86	1777.85	1778.83	1778.83	1760.82	1761.81	1779.84	1761.83	1762.81	911.42	898.43	889.92	890.42	15
15	102.06	1625.76	1607.75	1608.74	1597.77	1579.76	1580.74	1642.79	1624.78	1625.76	1641.78	813.38	799.38	821.89	E	1693.78	1675.77	1676.75	1667.80	1649.79	1650.78	1650.78	1632.76	1633.75	1651.78	1633.77	1634.76	847.39	834.40	825.89	826.39	14
16	72.08	1724.83	1706.82	1707.80	1696.84	1678.83	1679.81	1741.86	1723.85	1724.83	1740.85	862.92	848.92	871.43	V	1564.74	1546.73	1547.71	1538.76	1520.75	1521.73	1521.73	1503.72	1504.71	1522.74	1504.73	1505.71	782.87	769.90	761.37	761.87	13
17	88.04	1839.86	1821.85	1822.83	1811.86	1793.85	1794.84	1856.89	1838.87	1839.86	1855.88	920.43	906.43	928.94	D	1465.67	1447.66	1448.64	1439.69	1421.68	1422.66	1422.66	1404.65	1405.64	1423.67	1405.66	1406.65	733.34	720.35	711.83	712.34	12
18	102.06	1968.90	1950.89	1951.87	1940.91	1922.90	1923.88	1985.93	1967.89	1968.90	1984.92	984.95	970.95	993.46	E	1350.64	1332.63	1333.62	1324.66	1306.61	1307.64	1307.64	1289.63	1290.61	1308.65	1290.63	1291.62	675.82	662.83	654.32	654.82	11
19	70.07	2065.95	2047.94	2048.93	2037.96	2019.95	2020.93	2082.98	2064.97	2065.95	2081.97	1033.48	1019.48	1041.99	P	1221.60	1203.59	1204.57	1195.62	1177.61	1178.59	1178.59	1160.58	1161.57	1179.60	1161.59	1162.58	611.30	598.31	589.80	590.30	10
20	70.07	2163.01	2145.00	2145.98	2135.01	2117.00	2117.98	2180.03	2162.02	2163.01	2179.03	1082.00	1068.01	1090.52	P	1124.55	1106.54	1107.52	1098.57	1080.56	1081.54	1081.54	1063.53	1064.52	1082.55	1064.54	1065.52	562.77	549.78	541.27	541.77	9
21	101.07	2291.06	2273.05	2274.04	2263.07	2245.06	2246.04	2308.09	2290.08	2291.06	2307.08	1146.03	1132.03	1154.55	Q	1027.50	1009.49	1010.47	1001.52	983.51	984.49	984.49	966.48	967.46	985.50	967.49	968.47	514.25	501.26	492.74	493.25	8
22	110.07	2428.12	2410.11	2411.10	2400.13	2382.12	2383.10	2445.15	2427.14	2428.12	2444.14	1214.56	1200.56	1223.08	H	899.44	881.43	882.41	873.46	855.45	856.43	856.43	838.42	839.40	857.44	839.43	840.41	450.22	437.23	428.72	429.22	7
23	44.05	2499.16	2481.15	2482.13	2471.17	2453.16	2454.14	2516.19	2498.18	2499.16	2515.18	1250.08	1236.08	1258.59	A	762.38	744.35	745.35	736.40	718.39	719.37	719.37	701.36	702.34	720.38	702.37	703.35	381.69	368.70	360.19	360.69	6
24	86.10	2612.24	2594.23	2595.22	2584.25	2566.24	2567.22	2629.27	2611.26	2612.24	2628.26	1306.61	1292.62	1315.14	L	691.34	673.33	674.31	665.36	647.35	648.33	648.33	630.32	631.31	649.34	631.33	632.32	346.17	333.18	324.67	325.17	5
25	129.11	2768.34	2750.34	2751.31	2740.35	2722.34	2723.32	2785.37	2767.36	2768.34	2784.37	1384.67	1370.68	1393.19	R	578.26	560.25	561.23	552.28	534.27	535.25	535.25	517.24	518.22	536.26	518.25	519.23	289.63	276.64	268.13	268.63	4
26	72.08	2867.42	2849.40	2850.39	2839.42	2821.41	2822.39	2884.44	2866.43	2867.42	2883.43	1434.21	1420.21	1442.72	V	422.16	404.15	405.13	396.18	378.17	379.15	379.15	361.14	362.12	380.16	362.15	363.13	211.58	198.59	190.07	190.58	3
27	88.04	2982.44	2964.43	2965.41	2954.45	2936.44	2937.42	2999.47	2981.46	2982.44	2998.46	1491.72	1477.72	1500.23	D	323.09	305.08	306.06	297.11	279.10	280.08	280.08	262.07	263.05	281.09	263.08	264.06	162.04	149.05	140.54	141.04	2
28	136.08														Y	208.06	190.05	191.03	182.08	164.07	165.05	165.05	147.04	148.03	166.06	148.05	149.03	104.53	91.54	83.03	83.53	1



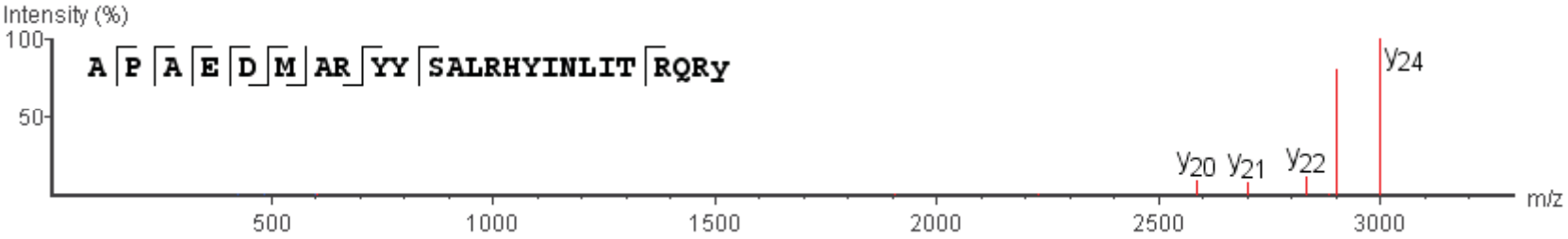
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Vasopressin-neurophysin 2-copeptin	P35455|NEU2_MOUSE		C.YFQNCPRG(-.98).G	84.3	2.5	492.2307	2



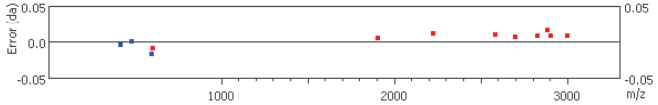
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	136.08	164.07	146.06	147.04	136.08	118.07	119.05	181.10	163.09	164.07	180.09	82.54	68.54	91.05	Y																	8
2	120.08	311.14	293.13	294.11	283.14	265.13	266.12	328.21	310.16	311.14	327.16	156.07	142.07	164.58	F	846.37	828.36	829.34	820.39	802.38	803.37	803.37	785.35	786.34	804.37	786.36	787.35	423.69	410.70	402.18	402.69	7
3	101.07	439.20	421.19	422.17	411.20	393.19	394.18	456.23	438.21	439.20	455.21	220.10	206.10	228.61	Q	699.30	681.29	682.28	673.32	655.31	656.25	656.25	638.29	639.27	657.30	639.29	640.28	350.15	337.16	328.65	329.15	6
4	87.06	553.24	535.23	536.21	525.25	507.24	508.22	570.27	552.26	553.24	569.26	277.12	263.12	285.63	N	571.24	553.24	554.22	545.26	527.25	528.24	528.24	510.23	511.21	529.25	511.24	512.22	286.12	273.13	264.62	265.12	5
5	76.02	656.25	638.24	639.22	628.26	610.24	611.23	673.32	655.27	656.25	672.27	328.63	314.63	337.14	C	457.20	439.20	440.17	431.22	413.21	414.20	414.20	396.18	397.17	415.20	397.19	398.18	229.10	216.11	207.60	208.10	4
6	70.07	753.30	735.29	736.28	725.31	707.30	708.28	770.33	752.32	753.30	769.32	377.15	363.15	385.67	P	354.19	336.18	337.16	328.21	310.20	311.14	311.14	293.18	294.16	312.19	294.18	295.17	177.60	164.61	156.09	156.60	3
7	129.11	909.40	891.39	892.38	881.41	863.40	864.38	926.43	908.42	909.40	925.42	455.20	441.20	463.72	R	257.14	239.13	240.11	231.16	213.15	214.13	214.13	196.12	197.11	215.14	197.13	198.11	129.07	116.08	107.57	108.07	2
8	29.05														G(-.98)	101.04	83.03	84.01	75.06	57.05	58.03	58.03	40.02	41.01	59.04	41.03	42.01	51.02	38.03	29.52	30.02	1



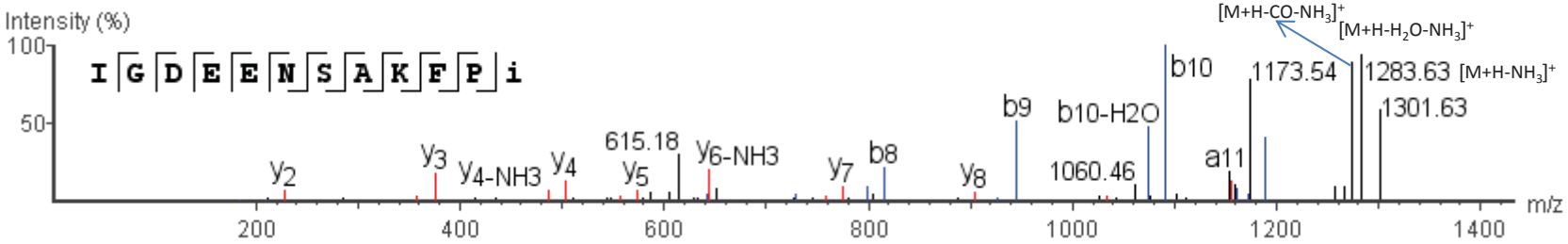
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Pro-neuropeptide Y	P57774|NPY_MOUSE		D.APAEDMARYYSALRHYINLITRQRY(-.98).G	63.25	2.1	614.9229	5



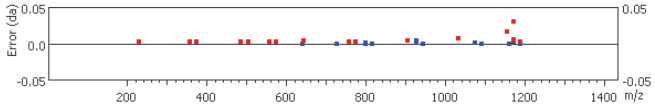
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	44.05	72.04	54.03	55.02	44.05	26.04	27.02	89.07	71.06	72.04	88.06	36.52	22.52	45.04	A																	25
2	70.07	169.10	151.09	152.07	141.10	123.09	124.08	186.12	168.11	169.10	185.12	85.05	71.05	93.56	P	3025.53	3007.51	3008.50	2999.54	2981.54	2982.52	2982.52	2964.51	2965.49	2983.53	2965.52	2966.50	1513.26	1500.27	1491.76	1492.26	24
3	44.05	240.13	222.12	223.11	212.14	194.13	195.11	257.16	239.15	240.13	256.15	120.57	106.57	129.08	A	2928.47	2910.46	2911.45	2902.48	2884.47	2885.47	2885.47	2867.46	2868.44	2886.47	2868.46	2869.45	1464.74	1451.75	1443.23	1443.74	23
4	102.06	369.18	351.17	352.15	341.18	323.17	324.16	386.20	368.19	369.18	385.20	185.09	171.09	193.60	E	2857.44	2839.42	2840.41	2831.45	2813.45	2814.43	2814.43	2796.42	2797.40	2815.44	2797.43	2798.41	1429.22	1416.23	1407.71	1408.22	22
5	88.04	484.20	466.19	467.18	456.21	438.20	439.18	501.23	483.22	484.20	500.22	242.60	228.60	251.12	D	2728.39	2710.38	2711.37	2702.41	2684.40	2685.39	2685.39	2667.38	2668.36	2686.39	2668.38	2669.37	1364.70	1351.71	1343.19	1343.70	21
6	104.05	615.24	597.25	598.22	587.25	569.24	570.22	632.27	614.26	615.24	631.26	308.12	294.12	316.64	M	2613.37	2595.36	2596.34	2587.38	2569.38	2570.36	2570.36	2552.35	2553.33	2571.37	2553.36	2554.34	1307.18	1294.19	1285.68	1286.18	20
7	44.05	686.28	668.27	669.25	658.29	640.28	641.26	703.31	685.30	686.28	702.30	343.64	329.64	352.15	A	2482.33	2464.31	2465.30	2456.35	2438.34	2439.32	2439.32	2421.31	2422.29	2440.33	2422.32	2423.30	1241.66	1228.67	1220.16	1220.66	19
8	129.11	842.38	824.37	825.36	814.39	796.38	797.36	859.41	841.40	842.38	858.40	421.70	407.69	430.21	R	2411.29	2393.28	2394.26	2385.31	2367.30	2368.28	2368.28	2350.27	2351.26	2369.29	2351.28	2352.26	1206.14	1193.15	1184.64	1185.15	18
9	136.08	1005.45	987.44	988.42	977.45	959.44	960.42	1022.47	1004.46	1005.45	1021.47	503.22	489.23	511.74	Y	2255.19	2237.18	2238.16	2229.20	2211.20	2212.18	2212.18	2194.17	2195.15	2213.19	2195.18	2196.16	1128.09	1115.10	1106.59	1107.09	17
10	136.08	1168.51	1150.50	1151.48	1140.51	1122.50	1123.49	1185.54	1167.53	1168.51	1184.53	584.75	570.76	593.27	Y	2092.12	2074.11	2075.10	2066.14	2048.13	2049.12	2049.12	2031.11	2032.09	2050.13	2032.11	2033.10	1046.56	1033.57	1025.06	1025.56	16
11	60.04	1255.54	1237.53	1238.51	1227.55	1209.54	1210.52	1272.57	1254.56	1255.54	1271.56	628.27	614.27	636.78	S	1929.06	1911.05	1912.03	1903.08	1885.07	1886.05	1886.05	1868.04	1869.03	1887.06	1869.05	1870.04	965.03	952.04	943.53	944.03	15
12	44.05	1326.58	1308.57	1309.55	1298.58	1280.57	1281.56	1343.61	1325.60	1326.58	1342.60	663.79	649.79	672.30	A	1842.03	1824.02	1825.00	1816.05	1798.04	1799.02	1799.02	1781.01	1782.00	1800.03	1782.02	1783.00	921.51	908.52	900.01	900.52	14
13	86.10	1439.66	1421.65	1422.64	1411.67	1393.66	1394.64	1456.69	1438.68	1439.66	1455.68	720.33	706.33	728.84	L	1770.99	1752.98	1753.96	1745.01	1727.00	1727.99	1727.99	1709.97	1710.96	1728.99	1710.98	1711.97	886.00	873.01	864.49	865.00	13
14	129.11	1595.76	1577.75	1578.74	1567.77	1549.76	1550.74	1612.79	1594.78	1595.76	1611.78	798.38	784.38	806.90	R	1657.91	1639.90	1640.88	1631.93	1613.92	1614.90	1614.90	1596.89	1597.87	1615.91	1597.90	1598.88	829.45	816.46	807.95	808.45	12
15	110.07	1732.82	1714.81	1715.80	1704.83	1686.82	1687.80	1749.85	1731.84	1732.82	1748.84	866.91	852.91	875.42	H	1501.81	1483.80	1484.78	1475.83	1457.82	1458.80	1458.80	1440.79	1441.77	1459.81	1441.80	1442.78	751.40	738.41	729.90	730.40	11
16	136.08	1895.89	1877.88	1878.86	1867.89	1849.88	1850.86	1912.91	1894.90	1895.89	1911.91	948.44	934.45	956.96	Y	1364.75	1346.74	1347.72	1338.77	1320.76	1321.74	1321.74	1303.73	1304.71	1322.75	1304.74	1305.72	682.87	669.88	661.37	661.87	10
17	86.10	2008.97	1990.96	1991.94	1980.98	1962.96	1963.95	2026.00	2007.99	2008.97	2024.99	1004.99	990.99	1013.50	I	1201.68	1183.67	1184.66	1175.70	1157.69	1158.68	1158.68	1140.67	1141.65	1159.69	1141.68	1142.66	601.34	588.35	579.84	580.34	9
18	87.06	2123.01	2105.00	2105.99	2095.02	2077.01	2077.99	2140.04	2122.03	2123.01	2139.03	1062.01	1048.01	1070.52	N	1088.60	1070.59	1071.57	1062.62	1044.61	1045.59	1045.59	1027.58	1028.57	1046.60	1028.59	1029.57	544.80	531.81	523.30	523.80	8
19	86.10	2236.10	2218.09	2219.07	2208.10	2190.09	2191.08	2253.12	2235.11	2236.10	2252.12	1118.55	1104.55	1127.06	L	974.56	956.55	957.53	948.58	930.57	931.55	931.55	913.54	914.52	932.56	914.55	915.53	487.78	474.79	466.28	466.78	7
20	86.10	2349.18	2331.17	2332.15	2321.19	2303.18	2304.16	2366.21	2348.20	2349.18	2365.20	1175.09	1161.09	1183.60	I	861.47	843.46	844.45	835.49	817.48	818.47	818.47	800.46	801.44	819.47	801.46	802.45	431.24	418.25	409.73	410.24	6
21	74.06	2450.23	2432.22	2433.20	2422.23	2404.22	2405.21	2467.26	2449.25	2450.23	2466.25	1225.61	1211.62	1234.13	T	748.39	730.38	731.36	722.41	704.40	705.38	705.38	687.37	688.36	706.39	688.38	689.36	374.69	361.70	353.19	353.70	5
22	129.11	2606.33	2588.32	2589.30	2578.34	2560.32	2561.31	2623.36	2605.35	2606.33	2622.35	1303.67	1289.67	1312.18	R	647.34	629.33	630.31	621.36	603.36	604.33	604.33	586.32	587.31	605.34	587.33	588.32	324.17	311.18	302.67	303.17	4
23	101.07	2734.39	2716.38	2717.36	2706.39	2688.38	2689.37	2751.42	2733.41	2734.39	2750.41	1367.69	1353.70	1376.21	Q	491.24	473.23	474.21	465.26	447.25	448.23	448.23	430.22	431.21	449.24	431.23	432.21	246.12	233.13	224.62	225.12	3
24	129.11	2890.49	2872.48	2873.46	2862.49	2844.48	2845.47	2907.52	2889.51	2890.49	2906.51	1445.74	1431.75	1454.26	R	363.18	345.17	346.15	337.20	319.19	320.18	320.18	302.16	303.15	321.18	303.17	304.16	182.09	169.10	160.59	161.09	2
25	135.10														Y(-.98)	207.08	189.07	190.05	181.10	163.09	164.07	164.07	146.06	147.05	165.08	147.07	148.05	104.04	91.05	82.54	83.04	1



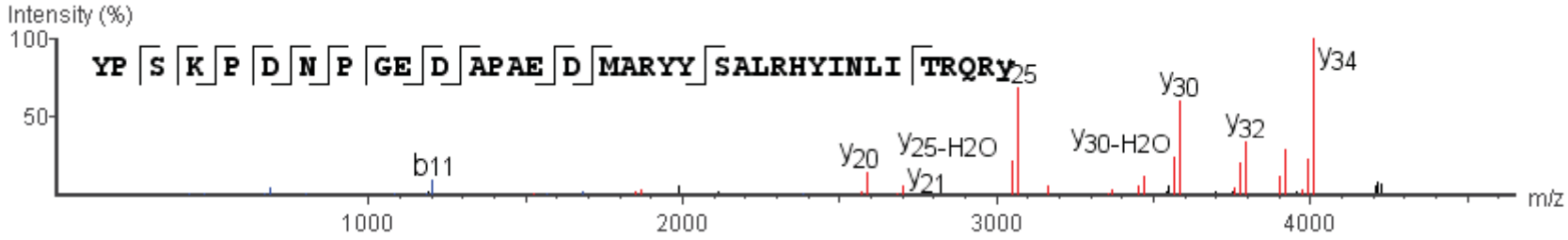
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Pro-MCH	P56942|MCH_MOUSE		E.IGDEENSAKFPI(-.98).G	95.85	0	659.8354	2



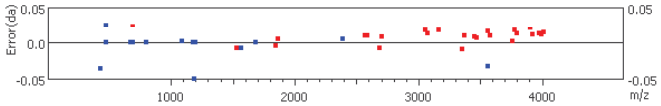
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	86.10	114.09	96.08	97.06	86.10	68.09	69.07	131.12	113.11	114.09	130.11	57.55	43.55	66.06	I																	12
2	30.03	171.11	153.10	154.09	143.12	125.11	126.09	188.14	170.13	171.11	187.13	86.06	72.06	94.57	G	1231.56	1213.55	1214.54	1205.58	1187.57	1188.55	1188.55	1170.55	1171.52	1189.56	1171.52	1172.54	616.28	603.29	594.78	595.28	11
3	88.04	286.14	268.13	269.11	258.15	240.13	241.12	303.17	285.16	286.14	302.16	143.57	129.57	152.08	D	1174.54	1156.51	1157.51	1148.56	1130.55	1131.54	1131.54	1113.52	1114.51	1132.54	1114.53	1115.52	587.77	574.78	566.27	566.77	10
4	102.06	415.18	397.17	398.16	387.19	369.18	370.16	432.21	414.20	415.18	431.20	208.09	194.09	216.60	E	1059.51	1041.50	1042.49	1033.53	1015.52	1016.51	1016.51	998.50	999.48	1017.52	999.51	1000.49	530.26	517.27	508.75	509.26	9
5	102.06	544.23	526.21	527.20	516.23	498.22	499.20	561.25	543.24	544.23	560.24	272.61	258.62	281.13	E	930.47	912.46	913.45	904.49	886.48	887.47	887.47	869.46	870.44	888.47	870.46	871.45	465.74	452.75	444.23	444.74	8
6	87.06	658.27	640.26	641.24	630.27	612.26	613.25	675.30	657.28	658.27	674.29	329.63	315.64	338.15	N	801.43	783.42	784.40	775.45	757.44	758.42	758.42	740.41	741.40	759.43	741.42	742.40	401.21	388.23	379.71	380.22	7
7	60.04	745.30	727.29	728.27	717.31	699.29	700.28	762.33	744.32	745.30	761.32	373.15	359.15	381.66	S	687.39	669.38	670.36	661.41	643.40	644.38	644.38	626.37	627.35	645.39	627.38	628.36	344.19	331.20	322.69	323.19	6
8	44.05	816.34	798.33	799.31	788.34	770.33	771.32	833.36	815.35	816.34	832.36	408.67	394.67	417.18	A	600.35	582.34	583.33	574.37	556.36	557.34	557.34	539.34	540.32	558.36	540.35	541.33	300.68	287.69	279.17	279.68	5
9	101.11	944.43	926.42	927.40	916.44	898.43	899.41	961.46	943.45	944.43	960.45	472.72	458.72	481.23	K	529.32	511.31	512.29	503.33	485.33	486.31	486.31	468.30	469.28	487.32	469.31	470.29	265.16	252.17	243.66	244.16	4
10	120.08	1091.50	1073.49	1074.47	1063.51	1045.50	1046.48	1108.53	1090.52	1091.50	1107.52	546.25	532.25	554.76	F	401.22	383.21	384.20	375.24	357.23	358.21	358.21	340.21	341.19	359.22	341.21	342.20	201.11	188.12	179.61	180.11	3
11	70.07	1188.55	1170.54	1171.52	1160.56	1142.55	1143.53	1205.58	1187.57	1188.55	1204.57	594.78	580.78	603.29	P	254.15	236.14	237.13	228.17	210.16	211.15	211.15	193.14	194.12	212.16	194.14	195.13	127.58	114.59	106.07	106.58	2
12	85.12														I(-.98)	157.10	139.09	140.07	131.12	113.11	114.09	114.09	96.08	97.07	115.10	97.09	98.08	79.05	66.06	57.55	58.05	1



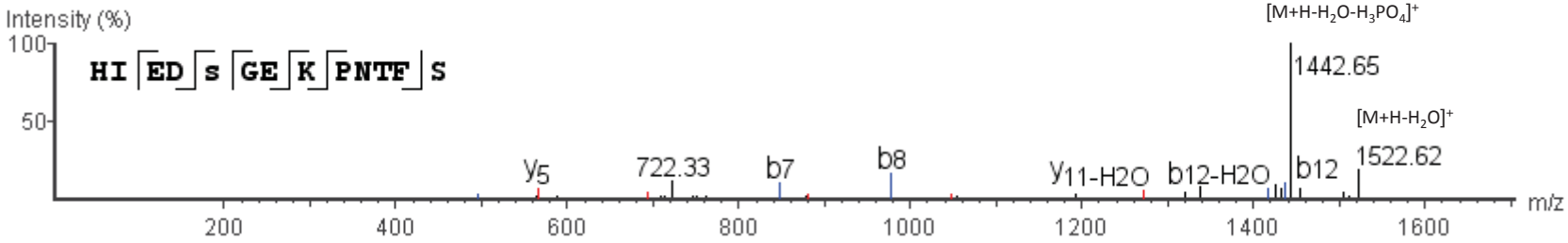
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Pro-neuropeptide Y	P57774|NPY_MOUSE	Neuropeptide Y	G.YPSKPDNPGEDAPAEDMARYYSALRHYINLITRQRY(-.98).G	102.46	-2.7	1068.275	4



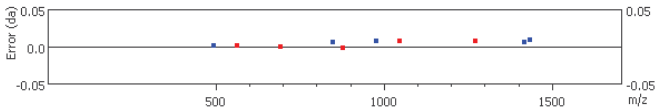
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	136.08	164.07	146.06	147.04	136.08	118.07	119.05	181.10	163.09	164.07	180.09	82.54	68.54	91.05	Y																	36
2	70.07	261.12	243.11	244.10	233.13	215.12	216.10	278.15	260.14	261.12	277.14	131.06	117.06	139.58	P	4133.01	4115.00	4115.98	4107.03	4089.02	4090.00	4090.00	4071.99	4072.98	4091.01	4073.00	4073.98	2067.00	2054.01	2045.50	2046.01	35
3	60.04	348.16	330.15	331.13	320.16	302.15	303.13	365.18	347.17	348.16	364.18	174.58	160.58	183.09	S	4035.96	4017.95	4018.93	4009.96	3991.95	3992.95	3992.95	3974.93	3975.92	3993.96	3975.95	3976.93	2018.48	2005.49	1996.97	1997.48	34
4	101.11	476.25	458.24	459.22	448.26	430.28	431.23	493.28	475.24	476.25	492.27	238.63	224.63	247.14	K	3948.92	3930.91	3931.90	3922.93	3904.91	3905.92	3905.92	3887.91	3888.89	3906.93	3888.91	3889.90	1974.96	1961.97	1953.46	1953.96	33
5	70.07	573.30	555.29	556.28	545.31	527.30	528.28	590.33	572.32	573.30	589.32	287.15	273.15	295.67	P	3820.83	3802.82	3803.80	3794.84	3776.82	3777.82	3777.82	3759.81	3760.80	3778.83	3760.82	3761.80	1910.91	1897.92	1889.41	1889.92	32
6	88.04	688.33	670.32	671.30	660.34	642.33	643.31	705.36	687.35	688.33	704.35	344.67	330.67	353.18	D	3723.78	3705.77	3706.75	3697.80	3679.79	3680.77	3680.77	3662.76	3663.74	3681.78	3663.77	3664.75	1862.39	1849.40	1840.88	1841.39	31
7	87.06	802.37	784.36	785.35	774.38	756.37	757.35	819.40	801.39	802.37	818.39	401.69	387.69	410.20	N	3608.75	3590.74	3591.72	3582.76	3564.74	3565.74	3565.74	3547.73	3548.72	3566.75	3548.74	3549.72	1804.87	1791.88	1783.37	1783.88	30
8	70.07	899.43	881.42	882.40	871.43	853.42	854.40	916.45	898.44	899.43	915.45	450.21	436.22	458.73	P	3494.71	3476.70	3477.68	3468.72	3450.71	3451.70	3451.70	3433.69	3434.67	3452.71	3434.70	3435.68	1747.85	1734.86	1726.35	1726.85	29
9	30.03	956.45	938.44	939.42	928.45	910.44	911.43	973.47	955.46	956.45	972.47	478.72	464.73	487.24	G	3397.65	3379.64	3380.63	3371.66	3353.66	3354.66	3354.66	3336.64	3337.62	3355.66	3337.64	3338.63	1699.33	1686.34	1677.82	1678.33	28
10	102.06	1085.49	1067.48	1068.46	1057.50	1039.48	1040.47	1102.52	1084.51	1085.49	1101.51	543.25	529.25	551.76	E	3340.63	3322.62	3323.60	3314.65	3296.64	3297.63	3297.63	3279.61	3280.60	3298.63	3280.62	3281.61	1670.82	1657.83	1649.31	1649.82	27
11	88.04	1200.52	1182.51	1183.49	1172.52	1154.51	1155.50	1217.54	1199.53	1200.52	1216.54	600.76	586.76	609.27	D	3211.59	3193.58	3194.56	3185.61	3167.58	3168.58	3168.58	3150.57	3151.56	3169.59	3151.58	3152.56	1606.29	1593.31	1584.79	1585.30	26
12	44.05	1271.55	1253.54	1254.53	1243.56	1225.55	1226.53	1288.58	1270.57	1271.55	1287.57	636.28	622.28	644.79	A	3096.56	3078.55	3079.54	3070.57	3052.56	3053.56	3053.56	3035.55	3036.53	3054.56	3036.55	3037.54	1548.78	1535.79	1527.28	1527.79	25
13	70.07	1368.61	1350.60	1351.58	1340.61	1322.60	1323.59	1385.63	1367.62	1368.61	1384.63	684.80	670.81	693.32	P	3025.53	3007.51	3008.50	2999.55	2981.54	2982.52	2982.52	2964.51	2965.49	2983.53	2965.52	2966.50	1513.26	1500.27	1491.76	1492.26	24
14	44.05	1439.64	1421.63	1422.62	1411.65	1393.64	1394.62	1456.67	1438.66	1439.64	1455.66	720.32	706.32	728.84	A	2928.47	2910.46	2911.45	2902.49	2884.48	2885.47	2885.47	2867.46	2868.44	2886.47	2868.46	2869.45	1464.74	1451.75	1443.23	1443.74	23
15	102.06	1568.70	1550.68	1551.66	1540.69	1522.68	1523.66	1585.71	1567.70	1568.70	1584.71	784.84	770.85	793.36	E	2857.44	2839.42	2840.41	2831.46	2813.45	2814.43	2814.43	2796.42	2797.40	2815.44	2797.43	2798.41	1429.22	1416.23	1407.71	1408.22	22
16	88.04	1683.71	1665.70	1666.69	1655.72	1637.71	1638.69	1700.74	1682.73	1683.71	1699.73	842.36	828.36	850.87	D	2728.39	2710.38	2711.37	2702.41	2684.40	2685.40	2685.40	2667.38	2668.36	2686.39	2668.38	2669.37	1364.70	1351.71	1343.19	1343.70	21
17	104.05	1814.75	1796.74	1797.73	1786.76	1768.75	1769.73	1831.78	1813.77	1814.75	1830.77	907.88	893.88	916.39	M	2613.37	2595.36	2596.34	2587.38	2569.38	2570.35	2570.35	2552.35	2553.33	2571.37	2553.36	2554.34	1307.18	1294.19	1285.68	1286.18	20
18	44.05	1885.79	1867.78	1868.76	1857.80	1839.79	1840.77	1902.82	1884.81	1885.79	1901.81	943.40	929.40	951.91	A	2482.33	2464.31	2465.30	2456.35	2438.34	2439.32	2439.32	2421.31	2422.29	2440.33	2422.32	2423.30	1241.66	1228.67	1220.16	1220.66	19
19	129.11	2041.89	2023.88	2024.87	2013.90	1995.89	1996.87	2058.92	2040.91	2041.89	2057.91	1021.45	1007.45	1029.96	R	2411.29	2393.28	2394.26	2385.31	2367.30	2368.28	2368.28	2350.27	2351.26	2369.29	2351.28	2352.26	1206.14	1193.15	1184.64	1185.15	18
20	136.08	2204.96	2186.95	2187.93	2176.96	2158.95	2159.93	2221.98	2203.97	2204.96	2220.98	1102.98	1088.98	1111.49	Y	2255.19	2237.18	2238.16	2229.21	2211.20	2212.18	2212.18	2194.17	2195.15	2213.19	2195.18	2196.16	1128.09	1115.10	1106.59	1107.09	17
21	136.08	2368.02	2350.01	2350.99	2340.02	2322.01	2323.00	2385.04	2367.04	2368.02	2384.04	1184.56	1170.51	1193.02	Y	2092.12	2074.11	2075.10	2066.14	2048.13	2049.12	2049.12	2031.11	2032.09	2050.13	2032.11	2033.10	1046.56	1033.57	1025.06	1025.56	16
22	60.04	2455.05	2437.04	2438.02	2427.06	2409.05	2410.03	2472.08	2454.07	2455.05	2471.07	1228.03	1214.03	1236.54	S	1929.06	1911.05	1912.03	1903.08	1885.07	1886.05	1886.05	1868.04	1869.03	1887.06	1869.05	1870.04	965.03	952.04	943.53	944.03	15
23	44.05	2526.09	2508.08	2509.06	2498.09	2480.08	2481.07	2543.12	2525.10	2526.09	2542.11	1263.54	1249.55	1272.06	A	1842.03	1824.02	1825.00	1816.05	1798.04	1799.02	1799.02	1781.01	1782.00	1800.03	1782.02	1783.00	921.51	908.52	900.01	900.52	14
24	86.10	2639.17	2621.16	2622.15	2611.18	2593.17	2594.15	2656.20	2638.19	2639.17	2655.19	1320.09	1306.09	1328.60	L	1770.99	1752.98	1753.96	1745.01	1727.00	1727.99	1727.99	1709.97	1710.96	1728.99	1710.98	1711.97	886.00	873.01	864.49	865.00	13
25	129.11	2795.27	2777.26	2778.25	2767.28	2749.27	2750.25	2812.30	2794.29	2795.27	2811.29	1398.14	1384.14	1406.65	R	1657.91	1639.90	1640.88	1631.93	1613.92	1614.90	1614.90	1596.89	1597.87	1615.91	1597.90	1598.88	829.45	816.46	807.95	808.45	12
26	110.07	2932.33	2914.32	2915.31	2904.34	2886.33	2887.31	2949.36	2931.35	2932.33	2948.35	1466.67	1452.67	1475.18	H	1501.81	1483.80	1484.78	1475.83	1457.82	1458.80	1458.80	1440.79	1441.77	1459.81	1441.80	1442.78	751.40	738.41	729.90	730.40	11
27	136.08	3095.40	3077.39	3078.37	3067.40	3049.39	3050.37	3112.42	3094.41	3095.40	3111.42	1548.20	1534.20	1556.71	Y	1364.75	1346.74	1347.72	1338.77	1320.76	1321.74	1321.74	1303.73	1304.71	1322.75	1304.74	1305.72	682.87	669.88	661.37	661.87	10
28	86.10	3208.48	3190.47	3191.45	3180.48	3162.47	3163.46	3225.51	3207.50	3208.48	3224.50	1604.74	1590.74	1613.25	I	1201.68	1183.67	1184.66	1175.70	1157.69	1158.68	1158.68	1140.67	1141.65	1159.69	1141.68	1142.66	601.34	588.35	579.84	580.34	9
29	87.06	3322.52	3304.51	3305.50	3294.53	3276.52	3277.50	3339.55	3321.54	3322.52	3338.54	1661.76	1647.76	1670.27	N	1088.60	1070.59	1071.57	1062.62	1044.61	1045.59	1045.59	1027.58	1028.57	1046.60	1028.59	1029.57	544.80	531.81	523.30	523.80	8
30	86.10	3435.61	3417.60	3418.58	3407.61	3389.60	3390.58	3452.63	3434.62	3435.61	3451.63	1718.30	1704.31	1726.82	L	974.56	956.55	957.53	948.58	930.57	931.55	931.55	913.54	914.52	932.56	914.55	915.53	487.78	474.79	466.28	466.78	7
31	86.10	3548.69	3530.68	3531.66	3520.70	3502.69	3503.67	3565.72	3547.71	3548.69	3564.74	1774.85	1760.85	1783.36	I	861.47	843.46	844.45	835.49	817.48	818.47	818.47	800.46	801.44	819.47	801.46	802.45	431.24	418.25	409.73	410.24	6
32	74.06	3649.74	3631.73	3632.71	3621.74	3603.73	3604.72	3666.77	3648.75	3649.74	3665.76	1825.37	1811.37	1833.88	T	748.39	730.38	731.36	722.41	704.40	705.38	705.38	687.37	688.33	706.39	688.38	689.36	374.69	361.70	353.19	353.70	5
33	129.11	3805.84	3787.83	3788.81	3777.84	3759.83	3760.82	3822.87	3804.86	3805.84	3821.86	1903.42	1889.42	1911.93	R	647.34	629.33	630.31	621.36	603.35	604.33	604.33	586.32	587.31	605.34	587.33	588.32	324.17	311.18	302.67	303.17	4
34	101.07	3933.90	3915.89	3916.87	3905.90	3887.89	3888.88	3950.93	3932.91	3933.90	3949.92	1967.45	1953.45	1975.96	Q	491.24	473.23	474.21	465.26	447.25	448.23	448.23	430.22	431.21	449.24	431.23	432.21	246.12	233.13	224.62	225.12	3
35	129.11	4090.00	4071.99	4072.97	4062.00	4043.99	4044.98	4107.03	4089.02	4090.00	4106.02	2045.50	2031.50	2054.01	R	363.18	345.17	346.15	337.20	319.19	320.18	320.18	302.16	303.15	321.18	303.17	304.16	182.09	169.10	160.59	161.09	2
36	135.10														Y(-.98)	207.08	189.07	190.05	181.10	163.09	164.07	164.07	146.06	147.05	165.08	147.07	148.05	104.04	91.05	82.54	83.04	1



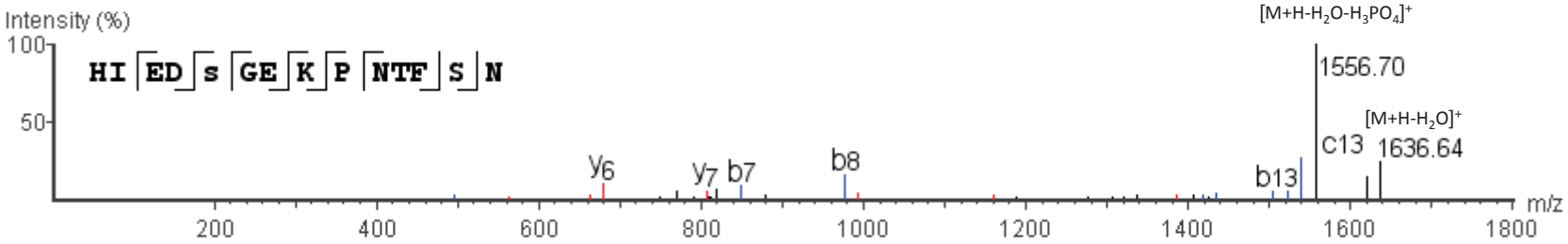
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
secretogranin-1	P16014|SCG1_MOUSE		K.HIEDS(+79.97)GEKPNTFS.N	56.85	0.4	770.8197	2



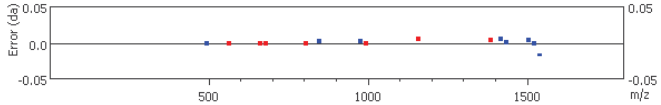
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	110.07	138.07	120.06	121.04	110.07	92.06	93.04	155.09	137.08	138.07	154.09	69.53	55.54	78.05	H																	13
2	86.10	251.15	233.14	234.12	223.16	205.15	206.13	268.18	250.17	251.15	267.17	126.08	112.08	134.59	I	1429.56	1411.55	1412.53	1403.58	1385.57	1386.55	1386.55	1368.54	1369.52	1387.56	1369.55	1370.53	715.28	702.29	693.77	694.28	12
3	102.06	380.19	362.18	363.17	352.20	334.19	335.17	397.22	379.21	380.19	396.21	190.60	176.60	199.11	E	1316.47	1298.46	1299.44	1290.49	1272.47	1273.47	1273.47	1255.45	1256.44	1274.47	1256.46	1257.45	658.74	645.75	637.23	637.74	11
4	88.04	495.22	477.21	478.19	467.23	449.21	450.20	512.25	494.24	495.22	511.24	248.11	234.11	256.62	D	1187.43	1169.42	1170.40	1161.45	1143.44	1144.42	1144.42	1126.41	1127.40	1145.43	1127.42	1128.40	594.21	581.22	572.71	573.22	10
5	140.01	662.22	644.21	645.20	634.23	616.22	617.20	679.25	661.24	662.22	678.24	331.61	317.61	340.12	S(+79.97)	1072.40	1054.39	1055.38	1046.41	1028.41	1029.40	1029.40	1011.39	1012.37	1030.40	1012.39	1013.38	536.70	523.71	515.20	515.70	9
6	30.03	719.24	701.23	702.22	691.25	673.24	674.22	736.27	718.26	719.24	735.26	360.12	346.12	368.64	G	905.40	887.39	888.37	879.42	861.41	862.39	862.39	844.38	845.37	863.40	845.39	846.37	453.20	440.21	431.70	432.20	8
7	102.06	848.28	830.28	831.26	820.29	802.28	803.26	865.31	847.30	848.28	864.31	424.64	410.65	433.16	E	848.38	830.37	831.35	822.40	804.39	805.37	805.37	787.36	788.35	806.38	788.37	789.35	424.69	411.70	403.19	403.69	7
8	101.11	976.37	958.37	959.35	948.39	930.38	931.36	993.41	975.40	976.37	992.40	488.69	474.69	497.20	K	719.34	701.33	702.31	693.36	675.35	676.33	676.33	658.32	659.30	677.34	659.33	660.31	360.17	347.18	338.66	339.17	6
9	70.07	1073.43	1055.42	1056.41	1045.44	1027.43	1028.41	1090.46	1072.45	1073.43	1089.45	537.22	523.22	545.73	P	591.24	573.23	574.21	565.26	547.25	548.23	548.23	530.22	531.21	549.24	531.23	532.22	296.12	283.13	274.62	275.12	5
10	87.06	1187.48	1169.47	1170.45	1159.48	1141.47	1142.46	1204.50	1186.49	1187.48	1203.50	594.24	580.24	602.75	N	494.19	476.18	477.16	468.21	450.20	451.18	451.18	433.17	434.15	452.19	434.18	435.16	247.59	234.60	226.09	226.59	4
11	74.06	1288.52	1270.51	1271.50	1260.53	1242.52	1243.50	1305.55	1287.54	1288.52	1304.54	644.76	630.76	653.28	T	380.15	362.13	363.12	354.17	336.16	337.14	337.14	319.13	320.11	338.15	320.14	321.12	190.57	177.58	169.07	169.57	3
12	120.08	1435.58	1417.58	1418.57	1407.60	1389.59	1390.57	1452.62	1434.61	1435.58	1451.61	718.30	704.30	726.81	F	279.10	261.09	262.07	253.12	235.11	236.09	236.09	218.08	219.06	237.10	219.09	220.07	140.05	127.06	118.55	119.05	2
13	60.04														S	132.03	114.02	115.00	106.05	88.04	89.02	89.02	71.01	72.00	90.03	72.02	73.00	66.51	53.52	45.01	45.52	1



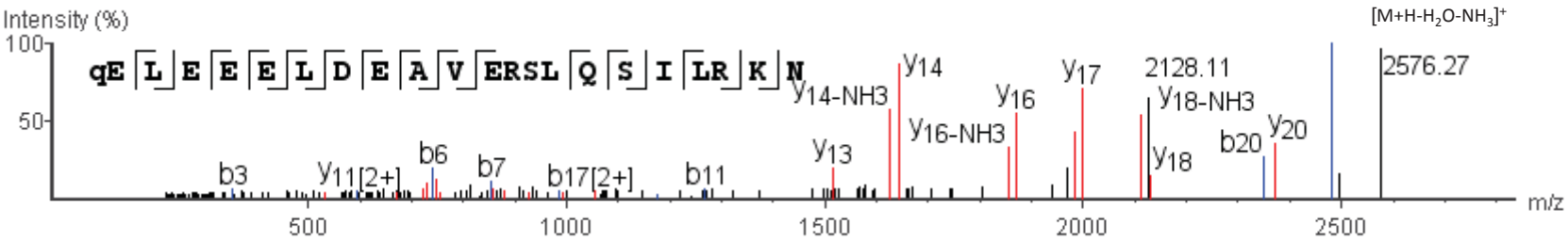
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
secretogranin-1	P16014|SCG1_MOUSE		K.HIEDS(+79.97)GEKPNTFSN.K	62.36	-11	827.8399	2



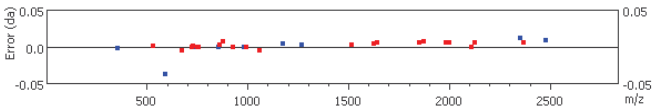
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	110.07	138.07	120.06	121.04	110.07	92.06	93.04	155.09	137.08	138.07	154.09	69.53	55.54	78.05	H																	14
2	86.10	251.15	233.14	234.12	223.16	205.15	206.13	268.18	250.17	251.15	267.17	126.08	112.08	134.59	I	1543.60	1525.59	1526.57	1517.62	1499.61	1500.59	1500.59	1482.58	1483.57	1501.60	1483.59	1484.57	772.30	759.31	750.80	751.30	13
3	102.06	380.19	362.18	363.17	352.20	334.19	335.17	397.22	379.21	380.19	396.21	190.60	176.60	199.11	E	1430.51	1412.50	1413.49	1404.54	1386.52	1387.51	1387.51	1369.50	1370.48	1388.52	1370.51	1371.49	715.76	702.77	694.25	694.76	12
4	88.04	495.22	477.21	478.19	467.23	449.21	450.20	512.25	494.24	495.22	511.24	248.11	234.11	256.62	D	1301.47	1283.46	1284.44	1275.49	1257.48	1258.47	1258.47	1240.45	1241.44	1259.47	1241.46	1242.45	651.24	638.25	629.73	630.24	11
5	140.01	662.22	644.21	645.20	634.23	616.22	617.20	679.25	661.24	662.22	678.24	331.61	317.61	340.12	S(+79.97)	1186.44	1168.43	1169.42	1160.46	1142.46	1143.44	1143.44	1125.43	1126.41	1144.45	1126.44	1127.42	593.72	580.73	572.22	572.72	10
6	30.03	719.24	701.23	702.22	691.25	673.24	674.22	736.27	718.26	719.24	735.26	360.12	346.12	368.64	G	1019.44	1001.43	1002.42	993.46	975.45	976.44	976.44	958.43	959.41	977.44	959.43	960.42	510.22	497.23	488.72	489.22	9
7	102.06	848.28	830.28	831.26	820.29	802.28	803.26	865.31	847.30	848.28	864.31	424.64	410.65	433.16	E	962.42	944.41	945.39	936.44	918.43	919.42	919.42	901.40	902.39	920.42	902.41	903.40	481.71	468.72	460.21	460.71	8
8	101.11	976.38	958.37	959.35	948.39	930.38	931.36	993.41	975.40	976.38	992.40	488.69	474.69	497.20	K	833.38	815.37	816.35	807.40	789.39	790.37	790.37	772.36	773.35	791.38	773.37	774.35	417.19	404.20	395.69	396.19	7
9	70.07	1073.43	1055.42	1056.41	1045.44	1027.43	1028.41	1090.46	1072.45	1073.43	1089.45	537.22	523.22	545.73	P	705.28	687.27	688.26	679.30	661.29	662.28	662.28	644.27	645.25	663.29	645.27	646.26	353.14	340.15	331.64	332.14	6
10	87.06	1187.48	1169.47	1170.45	1159.48	1141.47	1142.46	1204.50	1186.49	1187.48	1203.50	594.24	580.24	602.75	N	608.23	590.22	591.20	582.25	564.24	565.22	565.22	547.21	548.20	566.23	548.22	549.21	304.62	291.63	283.11	283.62	5
11	74.06	1288.52	1270.51	1271.50	1260.53	1242.52	1243.50	1305.55	1287.54	1288.52	1304.54	644.76	630.76	653.28	T	494.19	476.18	477.16	468.21	450.20	451.18	451.18	433.17	434.15	452.19	434.18	435.16	247.59	234.60	226.09	226.59	4
12	120.08	1435.59	1417.58	1418.57	1407.60	1389.59	1390.57	1452.62	1434.61	1435.59	1451.61	718.30	704.30	726.81	F	393.14	375.13	376.11	367.16	349.15	350.13	350.13	332.12	333.11	351.14	333.13	334.12	197.07	184.08	175.57	176.07	3
13	60.04	1522.62	1504.61	1505.60	1494.63	1476.62	1477.60	1539.67	1521.64	1522.62	1538.64	761.81	747.82	770.33	S	246.07	228.06	229.05	220.09	202.08	203.07	203.07	185.06	186.04	204.07	186.06	187.05	123.54	110.55	102.03	102.54	2
14	87.06														N	159.04	141.03	142.01	133.06	115.05	116.03	116.03	98.02	99.01	117.04	99.03	100.01	80.02	67.03	58.52	59.02	1



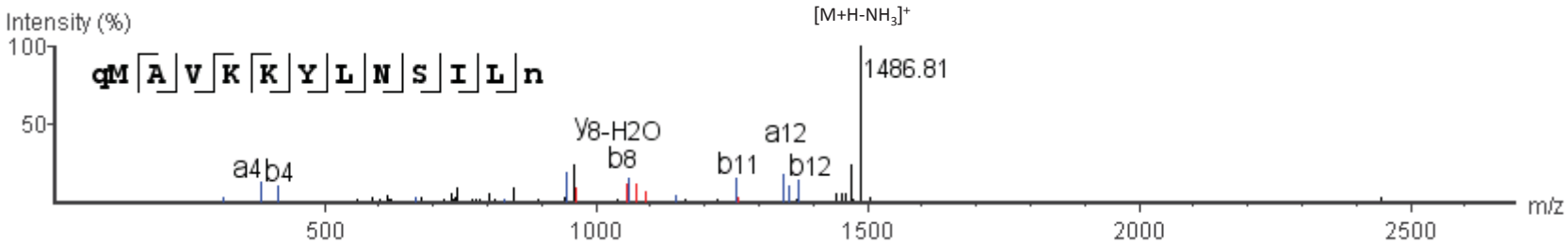
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Neuroendocrine convertase 2	P21661|NEC2_MOUSE		K.Q(-17.03)ELEEELDEAVERSLQSILRKN	123.96	-18	871.1102	3



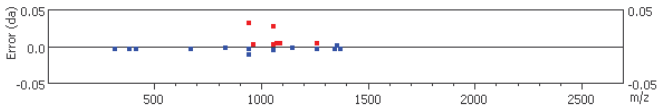
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	22
2	102.06	241.08	223.07	224.05	213.08	195.07	196.06	258.11	240.10	241.08	257.10	121.04	107.04	129.55	E	2526.27	2508.26	2509.24	2500.29	2482.28	2483.26	2483.26	2465.25	2466.23	2484.27	2466.26	2467.24	1263.63	1250.64	1242.13	1242.63	21
3	86.10	354.17	336.15	337.14	326.17	308.16	309.14	371.19	353.18	354.17	370.18	177.58	163.58	186.10	L	2397.23	2379.22	2380.20	2371.24	2353.24	2354.22	2354.22	2336.21	2337.19	2355.23	2337.22	2338.20	1199.11	1186.12	1177.61	1178.11	20
4	102.06	483.21	465.20	466.18	455.21	437.20	438.18	500.23	482.22	483.21	499.22	242.10	228.11	250.62	E	2284.14	2266.13	2267.11	2258.16	2240.15	2241.14	2241.14	2223.12	2224.11	2242.14	2224.13	2225.12	1142.57	1129.58	1121.07	1121.57	19
5	102.06	612.25	594.24	595.22	584.25	566.24	567.23	629.28	611.26	612.25	628.27	306.62	292.63	315.14	E	2155.10	2137.09	2138.07	2129.11	2111.11	2112.09	2112.09	2094.08	2095.07	2113.10	2095.09	2096.07	1078.05	1065.06	1056.55	1057.05	18
6	102.06	741.29	723.28	724.26	713.30	695.29	696.27	758.32	740.31	741.29	757.31	371.15	357.15	379.66	E	2026.06	2008.05	2009.03	2000.07	1982.07	1983.04	1983.04	1965.04	1966.02	1984.06	1966.05	1967.03	1013.53	1000.54	992.03	992.53	17
7	86.10	854.38	836.36	837.35	826.38	808.37	809.35	871.40	853.39	854.38	870.39	427.69	413.69	436.20	L	1897.01	1879.00	1879.99	1871.03	1853.02	1854.00	1854.00	1836.00	1836.98	1855.02	1837.00	1837.99	949.01	936.02	927.50	928.01	16
8	88.04	969.40	951.39	952.37	941.41	923.40	924.38	986.43	968.42	969.40	985.42	485.20	471.20	493.71	D	1783.93	1765.92	1766.90	1757.95	1739.94	1740.92	1740.92	1722.91	1723.90	1741.93	1723.92	1724.90	892.46	879.47	870.96	871.47	15
9	102.06	1098.44	1080.43	1081.42	1070.45	1052.44	1053.42	1115.47	1097.46	1098.44	1114.46	549.72	535.72	558.24	E	1668.90	1650.89	1651.88	1642.92	1624.91	1625.89	1625.89	1607.89	1608.87	1626.90	1608.89	1609.88	834.95	821.96	813.45	813.95	14
10	44.05	1169.48	1151.47	1152.45	1141.49	1123.48	1124.46	1186.51	1168.50	1169.48	1185.50	585.24	571.24	593.79	A	1539.86	1521.85	1522.83	1513.88	1495.87	1496.85	1496.85	1478.84	1479.83	1497.86	1479.85	1480.83	770.43	757.44	748.93	749.43	13
11	72.08	1268.55	1250.54	1251.52	1240.55	1222.54	1223.53	1285.58	1267.57	1268.55	1284.57	634.77	620.78	643.29	V	1468.82	1450.81	1451.80	1442.84	1424.83	1425.82	1425.82	1407.81	1408.79	1426.82	1408.81	1409.80	734.91	721.92	713.41	713.91	12
12	102.06	1397.59	1379.58	1380.57	1369.60	1351.59	1352.57	1414.62	1396.61	1397.59	1413.61	699.30	685.30	707.81	E	1369.75	1351.74	1352.73	1343.78	1325.76	1326.75	1326.75	1308.74	1309.72	1327.76	1309.75	1310.73	685.38	672.39	663.87	664.38	11
13	129.11	1553.69	1535.68	1536.67	1525.70	1507.69	1508.67	1570.72	1552.71	1553.69	1569.71	777.35	763.35	785.86	R	1240.71	1222.70	1223.69	1214.73	1196.72	1197.71	1197.71	1179.70	1180.68	1198.71	1180.70	1181.69	620.86	607.87	599.35	599.86	10
14	60.04	1640.73	1622.72	1623.70	1612.73	1594.72	1595.70	1657.75	1639.74	1640.73	1656.74	820.86	806.87	829.38	S	1084.61	1066.60	1067.58	1058.63	1040.62	1041.60	1041.60	1023.59	1024.58	1042.61	1024.60	1025.59	542.81	529.82	521.30	521.81	9
15	86.10	1753.81	1735.80	1736.78	1725.81	1707.80	1708.79	1770.84	1752.83	1753.81	1769.83	877.40	863.41	885.92	L	997.58	979.57	980.55	971.60	953.59	954.57	954.57	936.56	937.55	955.58	937.57	938.55	499.29	486.30	477.79	478.29	8
16	101.07	1881.87	1863.86	1864.84	1853.87	1835.86	1836.85	1898.90	1880.88	1881.87	1897.89	941.43	927.44	949.95	Q	884.49	866.48	867.47	858.51	840.51	841.49	841.49	823.48	824.46	842.50	824.49	825.47	442.75	429.76	421.24	421.75	7
17	60.04	1968.90	1950.89	1951.87	1940.91	1922.89	1923.88	1985.93	1967.92	1968.90	1984.92	984.95	970.95	993.46	S	756.44	738.43	739.41	730.45	712.45	713.43	713.43	695.42	696.40	714.44	696.43	697.41	378.72	365.73	357.21	357.72	6
18	86.10	2081.98	2063.97	2064.96	2053.99	2035.98	2036.96	2099.01	2081.00	2081.98	2098.00	1041.49	1027.49	1050.01	I	669.40	651.39	652.38	643.42	625.41	626.40	626.40	608.39	609.37	627.41	609.40	610.38	335.20	322.21	313.70	314.20	5
19	86.10	2195.07	2177.06	2178.04	2167.07	2149.06	2150.05	2212.10	2194.08	2195.07	2211.09	1098.03	1084.04	1106.55	L	556.32	538.31	539.29	530.34	512.33	513.31	513.31	495.30	496.29	514.32	496.31	497.29	278.66	265.67	257.16	257.66	4
20	129.11	2351.16	2333.16	2334.14	2323.17	2305.16	2306.15	2368.20	2350.19	2351.16	2367.19	1176.08	1162.09	1184.60	R	443.24	425.23	426.21	417.26	399.25	400.23	400.23	382.22	383.20	401.24	383.23	384.21	222.12	209.13	200.61	201.12	3
21	101.11	2479.25	2461.25	2462.24	2451.27	2433.26	2434.24	2496.29	2478.28	2479.25	2495.28	1240.13	1226.13	1248.65	K	287.14	269.12	270.11	261.16	243.15	244.13	244.13	226.12	227.10	245.14	227.13	228.11	144.07	131.08	122.56	123.07	2
22	87.06														N	159.04	141.03	142.01	133.06	115.05	116.03	116.03	98.02	99.01	117.04	99.03	100.01	80.02	67.03	58.52	59.02	1



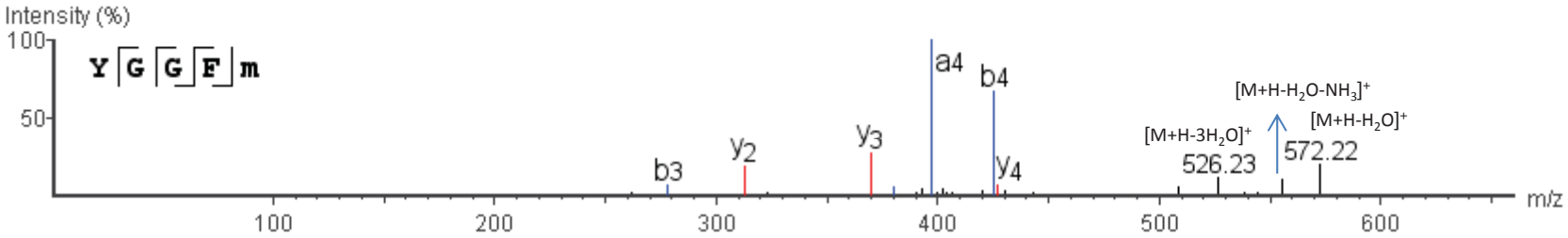
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
VIP peptides	P32648|VIP_MOUSE		K.Q(-17.03)MAVKKYLNSILN(-.98).G	78.82	2.2	752.4229	2



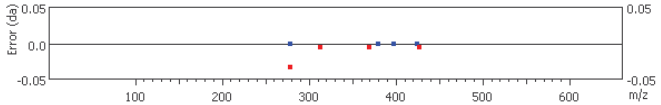
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	13
2	104.05	243.08	225.07	226.05	215.08	197.07	198.05	260.10	242.09	243.08	259.10	122.04	108.04	130.55	M	1418.79	1400.78	1401.76	1392.81	1374.80	1375.78	1375.78	1357.77	1358.75	1376.79	1358.78	1359.76	709.89	696.90	688.39	688.89	12
3	44.05	314.12	296.10	297.09	286.12	268.11	269.09	331.14	313.13	314.12	330.13	157.56	143.56	166.07	A	1287.75	1269.74	1270.72	1261.76	1243.76	1244.74	1244.74	1226.73	1227.71	1245.75	1227.74	1228.72	644.37	631.38	622.87	623.37	11
4	72.08	413.19	395.17	396.16	385.19	367.18	368.16	430.21	412.20	413.19	429.20	207.09	193.09	215.60	V	1216.71	1198.70	1199.68	1190.73	1172.72	1173.70	1173.70	1155.69	1156.68	1174.71	1156.70	1157.68	608.85	595.86	587.35	587.86	10
5	101.11	541.28	523.27	524.25	513.28	495.27	496.26	558.30	540.29	541.28	557.30	271.14	257.14	279.65	K	1117.64	1099.63	1100.61	1091.66	1073.65	1074.63	1074.63	1056.62	1057.60	1075.64	1057.60	1058.61	559.32	546.33	537.82	538.32	9
6	101.11	669.38	651.36	652.35	641.38	623.37	624.35	686.40	668.39	669.38	685.39	335.19	321.19	343.70	K	989.55	971.53	972.52	963.56	945.52	946.54	946.54	928.53	929.51	947.55	929.54	930.52	495.27	482.28	473.77	474.27	8
7	136.08	832.44	814.43	815.41	804.44	786.43	787.41	849.46	831.45	832.44	848.45	416.72	402.72	425.23	Y	861.45	843.44	844.42	835.47	817.46	818.44	818.44	800.43	801.42	819.45	801.44	802.43	431.23	418.24	409.72	410.23	7
8	86.10	945.52	927.51	928.49	917.52	899.51	900.50	962.55	944.55	945.52	961.54	473.26	459.26	481.77	L	698.39	680.38	681.36	672.41	654.40	655.38	655.38	637.37	638.35	656.39	638.38	639.36	349.69	336.70	328.19	328.69	6
9	87.06	1059.57	1041.55	1042.54	1031.57	1013.56	1014.54	1076.59	1058.58	1059.57	1075.58	530.28	516.28	538.79	N	585.30	567.29	568.28	559.32	541.31	542.30	542.30	524.29	525.27	543.30	525.29	526.28	293.15	280.16	271.65	272.15	5
10	60.04	1146.60	1128.58	1129.57	1118.60	1100.59	1101.57	1163.62	1145.61	1146.60	1162.61	573.80	559.80	582.31	S	471.26	453.25	454.23	445.28	427.27	428.25	428.25	410.24	411.23	429.26	411.25	412.23	236.13	223.14	214.63	215.13	4
11	86.10	1259.68	1241.67	1242.65	1231.68	1213.67	1214.66	1276.71	1258.70	1259.68	1275.70	630.34	616.34	638.85	I	384.23	366.22	367.20	358.25	340.24	341.22	341.22	323.21	324.19	342.23	324.22	325.20	192.61	179.62	171.11	171.61	3
12	86.10	1372.77	1354.75	1355.73	1344.77	1326.76	1327.74	1389.79	1371.78	1372.77	1388.78	686.88	672.88	695.39	L	271.14	253.13	254.12	245.16	227.15	228.14	228.14	210.13	211.11	229.15	211.14	212.12	136.07	123.08	114.57	115.07	2
13	86.08														N(-.98)	158.06	140.05	141.03	132.08	114.07	115.05	115.05	97.04	98.03	116.06	98.05	99.03	79.53	66.54	58.03	58.53	1



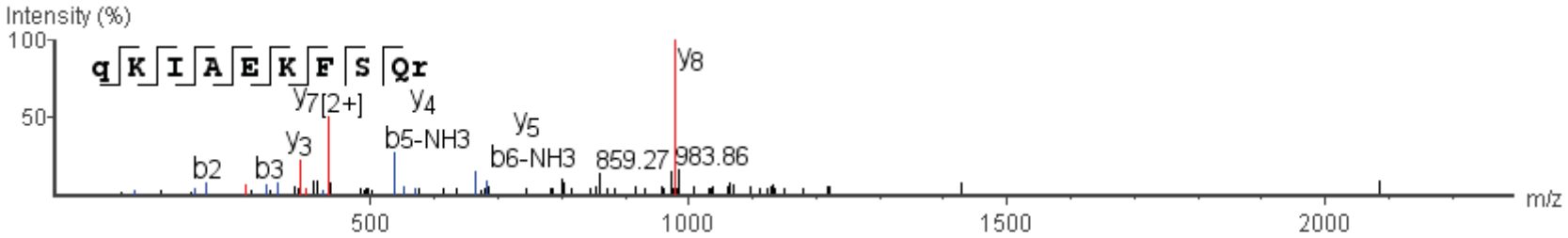
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Proenkephalin-A	P22005|PENK_MOUSE		K.YGGFM(+15.99).K	50.26	3	590.2297	1



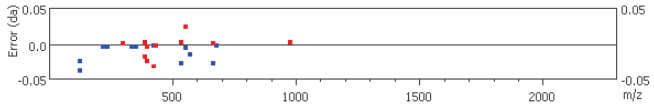
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	136.08	164.07	146.06	147.04	136.08	118.07	119.05	181.10	163.09	164.07	180.09	82.54	68.54	91.05	Y																	5
2	30.03	221.09	203.08	204.07	193.10	175.09	176.07	238.12	220.11	221.09	237.11	111.05	97.05	119.56	G	453.14	435.13	436.11	427.17	409.15	410.13	410.13	392.12	393.11	411.14	393.13	394.11	227.07	214.08	205.57	206.07	4
3	30.03	278.11	260.10	261.09	250.12	232.11	233.09	295.14	277.13	278.11	294.13	139.56	125.56	148.07	G	396.12	378.11	379.09	370.14	352.13	353.11	353.11	335.10	336.08	354.12	336.11	337.09	198.56	185.57	177.06	177.56	3
4	120.08	425.18	407.17	408.16	397.19	379.18	380.16	442.21	424.20	425.18	441.20	213.09	199.09	221.60	F	339.10	321.09	322.07	313.12	295.11	296.09	296.09	278.11	279.06	297.10	279.09	280.07	170.05	157.06	148.54	149.05	2
5	120.04														M(+15.99)	192.03	174.02	175.00	166.05	148.04	149.02	149.02	131.01	131.99	150.03	132.02	133.00	96.51	83.52	75.01	75.51	1



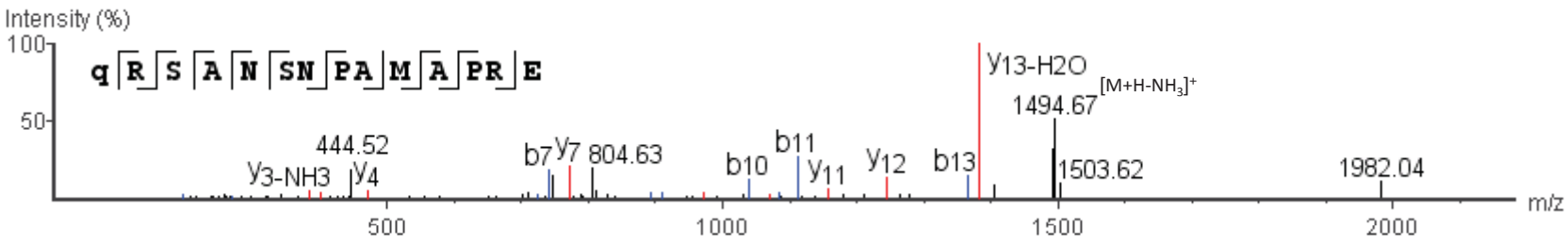
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Secretogranin-1	P16014|SCG1_MOUSE		L.Q(-17.03)KIAEKFSQR(-.98).G	88.5	3.7	406.2329	3



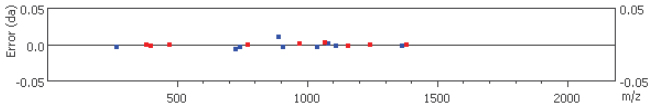
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.10	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	10
2	101.11	240.13	222.12	223.11	212.14	194.13	195.11	257.16	239.15	240.13	256.15	120.57	106.57	129.10	K	1131.63	1113.62	1114.60	1105.65	1087.64	1088.62	1088.62	1070.61	1071.60	1089.63	1071.62	1072.61	566.32	553.30	544.81	545.32	9
3	86.10	353.22	335.21	336.19	325.22	307.21	308.19	370.24	352.23	353.22	369.23	177.11	163.11	185.62	I	1003.54	985.53	986.51	977.55	959.55	960.53	960.53	942.52	943.50	961.54	943.53	944.51	502.27	489.28	480.76	481.27	8
4	44.05	424.25	406.24	407.23	396.26	378.25	379.23	441.28	423.27	424.25	440.27	212.63	198.63	221.14	A	890.45	872.44	873.42	864.47	846.46	847.45	847.45	829.44	830.42	848.45	830.44	831.43	445.73	432.74	424.25	424.73	7
5	102.06	553.30	535.28	536.29	525.30	507.29	508.27	570.34	552.31	553.30	569.31	277.15	263.15	285.66	E	819.41	801.40	802.39	793.44	775.42	776.41	776.41	758.40	759.38	777.42	759.41	760.39	410.21	397.22	388.70	389.23	6
6	101.11	681.39	663.38	664.39	653.40	635.38	636.37	698.42	680.41	681.39	697.41	341.20	327.20	349.71	K	690.37	672.36	673.35	664.39	646.38	647.37	647.37	629.36	630.34	648.37	630.36	631.35	345.69	332.70	324.18	324.69	5
7	120.08	828.46	810.45	811.43	800.46	782.45	783.44	845.49	827.47	828.46	844.48	414.73	400.73	423.24	F	562.28	544.27	545.25	536.29	518.29	519.27	519.27	501.26	502.24	520.28	502.27	503.25	281.64	268.65	260.14	260.64	4
8	60.04	915.49	897.48	898.46	887.50	869.48	870.47	932.52	914.51	915.49	931.51	458.25	444.25	466.76	S	415.21	397.22	398.18	389.23	371.22	372.20	372.20	354.19	355.18	373.21	355.20	356.18	208.10	195.11	186.60	187.11	3
9	101.07	1043.55	1025.54	1026.52	1015.55	997.54	998.53	1060.58	1042.57	1043.55	1059.57	522.27	508.28	530.79	Q	328.18	310.17	311.15	302.19	284.19	285.17	285.17	267.16	268.14	286.18	268.17	269.15	164.59	151.60	143.09	143.59	2
10	128.13														R(-.98)	200.12	182.11	183.09	174.14	156.13	157.11	157.11	139.10	140.08	158.12	140.11	141.09	100.56	87.57	79.06	79.56	1



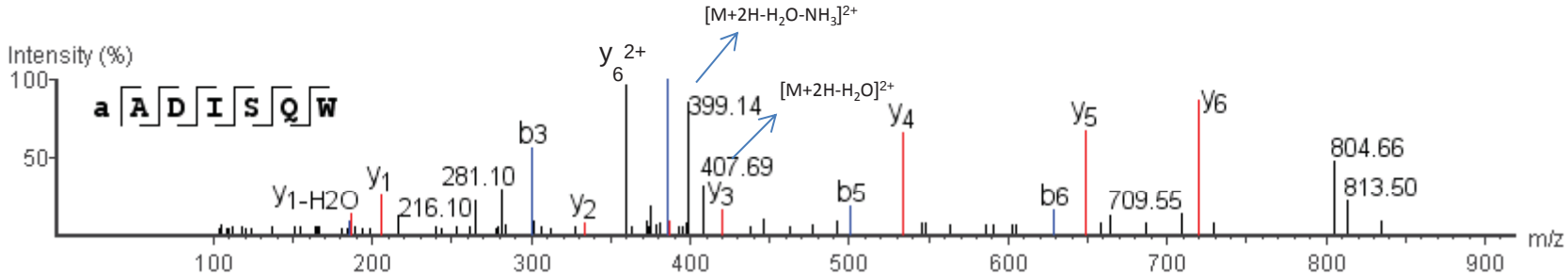
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Somatostatin	P60041|SMS_MOUSE		L.Q(-17.03)RSANSNPAMAPRE.R	68.94	-13	756.3536	2



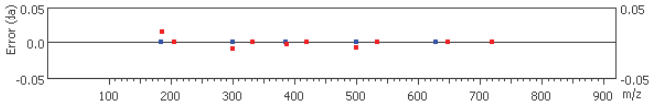
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	14
2	129.11	268.14	250.13	251.11	240.14	222.13	223.12	285.16	267.15	268.14	284.16	134.57	120.57	143.08	R	1426.65	1408.64	1409.62	1400.67	1382.66	1383.64	1383.64	1365.63	1366.62	1384.65	1366.64	1367.62	713.82	700.83	692.32	692.83	13
3	60.04	355.17	337.16	338.14	327.17	309.16	310.15	372.20	354.19	355.17	371.19	178.08	164.09	186.60	S	1270.55	1252.54	1253.52	1244.57	1226.56	1227.54	1227.54	1209.53	1210.51	1228.55	1210.54	1211.52	635.77	622.78	614.27	614.77	12
4	44.05	426.21	408.20	409.18	398.21	380.20	381.18	443.23	425.22	426.21	442.23	213.60	199.61	222.12	A	1183.52	1165.51	1166.49	1157.54	1139.53	1140.51	1140.51	1122.50	1123.48	1141.52	1123.51	1124.49	592.26	579.27	570.75	571.26	11
5	87.06	540.25	522.24	523.22	512.25	494.24	495.23	557.28	539.27	540.25	556.27	270.62	256.63	279.14	N	1112.48	1094.47	1095.45	1086.50	1068.49	1069.47	1069.47	1051.46	1052.45	1070.48	1052.47	1053.45	556.74	543.75	535.24	535.74	10
6	60.04	627.28	609.27	610.25	599.29	581.28	582.26	644.31	626.30	627.28	643.30	314.14	300.14	322.65	S	998.44	980.43	981.41	972.45	954.45	955.43	955.43	937.42	938.40	956.44	938.43	939.41	499.72	486.73	478.21	478.72	9
7	87.06	741.33	723.31	724.31	713.33	695.32	696.30	758.35	740.34	741.33	757.34	371.16	357.16	379.68	N	911.40	893.39	894.38	885.42	867.41	868.40	868.40	850.39	851.37	869.41	851.39	852.38	456.20	443.21	434.70	435.20	8
8	70.07	838.38	820.37	821.35	810.38	792.37	793.36	855.40	837.39	838.38	854.40	419.69	405.69	428.20	P	797.36	779.35	780.33	771.38	753.37	754.35	754.35	736.34	737.33	755.36	737.35	738.34	399.18	386.19	377.68	378.18	7
9	44.05	909.42	891.40	892.38	881.42	863.41	864.39	926.44	908.43	909.42	925.43	455.21	441.21	463.72	A	700.31	682.30	683.28	674.33	656.32	657.30	657.30	639.29	640.27	658.31	640.30	641.28	350.65	337.66	329.15	329.65	6
10	104.05	1040.46	1022.44	1023.43	1012.46	994.45	995.43	1057.48	1039.47	1040.46	1056.47	520.73	506.73	529.24	M	629.27	611.26	612.24	603.29	585.28	586.26	586.26	568.25	569.24	587.27	569.26	570.25	315.14	302.15	293.63	294.14	5
11	44.05	1111.49	1093.48	1094.46	1083.50	1065.49	1066.47	1128.52	1110.51	1111.49	1127.51	556.25	542.25	564.76	A	498.23	480.22	481.20	472.25	454.24	455.22	455.22	437.21	438.20	456.23	438.22	439.21	249.62	236.63	228.11	228.62	4
12	70.07	1208.54	1190.53	1191.52	1180.55	1162.54	1163.52	1225.57	1207.56	1208.54	1224.56	604.77	590.77	613.29	P	427.19	409.18	410.17	401.22	383.20	384.19	384.19	366.18	367.16	385.20	367.18	368.17	214.10	201.11	192.59	193.10	3
13	129.11	1364.65	1346.64	1347.62	1336.65	1318.64	1319.62	1381.67	1363.66	1364.65	1380.67	682.82	668.83	691.34	R	330.14	312.13	313.11	304.16	286.15	287.13	287.13	269.12	270.11	288.14	270.13	271.12	165.57	152.58	144.07	144.57	2
14	102.06														E	174.04	156.03	157.01	148.06	130.05	131.03	131.03	113.02	114.01	132.04	114.03	115.01	87.52	74.53	66.02	66.52	1



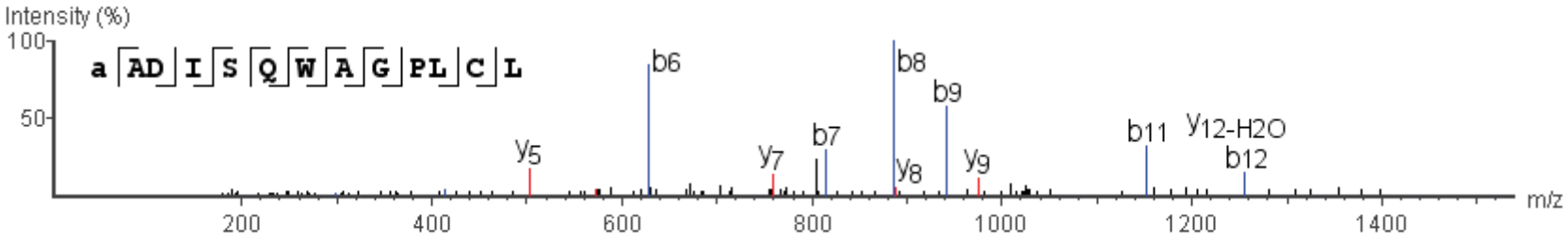
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Phosphatidylethanolamine-binding protein 1	P70296|PEBP1_MOUSE		M.A(+42.01)ADISQW.A	54.67	0.4	416.6956	2



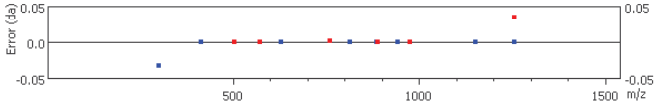
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	86.06	114.05	96.04	97.03	86.06	68.05	69.03	131.08	113.07	114.05	130.07	57.53	43.53	66.04	A(+42.01)																	7
2	44.05	185.09	167.08	168.07	157.10	139.09	140.07	202.12	184.11	185.09	201.11	93.05	79.05	101.56	A	745.32	727.30	728.29	719.34	701.33	702.31	702.31	684.30	685.28	703.32	685.31	686.29	373.16	360.17	351.65	352.16	6
3	88.04	300.12	282.11	283.09	272.12	254.11	255.10	317.15	299.14	300.12	316.14	150.56	136.56	159.07	D	674.28	656.27	657.25	648.30	630.29	631.27	631.27	613.26	614.24	632.28	614.27	615.25	337.64	324.65	316.14	316.64	5
4	86.10	413.20	395.19	396.18	385.21	367.20	368.18	430.23	412.22	413.20	429.22	207.10	193.10	215.62	I	559.25	541.24	542.22	533.27	515.26	516.24	516.24	498.23	499.22	517.25	499.24	500.23	280.13	267.14	258.62	259.13	4
5	60.04	500.23	482.22	483.21	472.24	454.23	455.21	517.26	499.25	500.23	516.25	250.62	236.62	259.13	S	446.17	428.16	429.14	420.19	402.18	403.16	403.16	385.15	386.13	404.17	386.16	387.15	223.58	210.59	202.08	202.58	3
6	101.07	628.29	610.28	611.27	600.30	582.29	583.27	645.32	627.31	628.29	644.31	314.65	300.65	323.16	Q	359.14	341.12	342.11	333.16	315.15	316.13	316.13	298.12	299.10	317.14	299.13	300.12	180.07	167.08	158.56	159.07	2
7	159.09														W	231.08	213.07	214.05	205.10	187.07	188.07	188.07	170.06	171.04	189.08	171.07	172.05	116.04	103.05	94.54	95.04	1



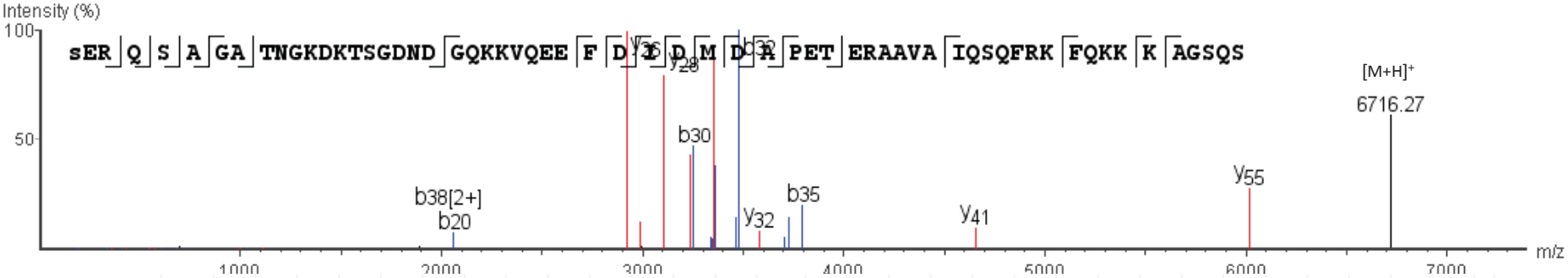
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Phosphatidylethanolamine-binding protein 1	P70296|PEBP1_MOUSE		M.A(+42.01)ADISQWAGPLCL.Q	68.32	-0.3	693.8395	2



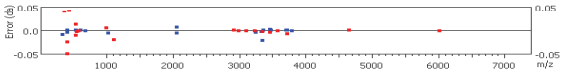
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	86.06	114.05	96.04	97.03	86.06	68.05	69.03	131.08	113.07	114.05	130.07	57.53	43.53	66.04	A(+42.01)																	13
2	44.05	185.09	167.08	168.07	157.10	139.09	140.07	202.12	184.11	185.09	201.11	93.05	79.05	101.56	A	1299.60	1281.59	1282.58	1273.62	1255.58	1256.60	1256.60	1238.59	1239.57	1257.61	1239.59	1240.58	650.30	637.31	628.80	629.30	12
3	88.04	300.12	282.11	283.09	272.12	254.11	255.10	317.15	299.17	300.12	316.14	150.56	136.56	159.07	D	1228.57	1210.56	1211.54	1202.59	1184.58	1185.56	1185.56	1167.55	1168.53	1186.57	1168.56	1169.54	614.78	601.79	593.28	593.78	11
4	86.10	413.20	395.19	396.18	385.21	367.20	368.18	430.23	412.22	413.20	429.22	207.10	193.10	215.62	I	1113.54	1095.53	1096.51	1087.56	1069.55	1070.53	1070.53	1052.52	1053.51	1071.54	1053.53	1054.51	557.27	544.28	535.77	536.27	10
5	60.04	500.24	482.22	483.21	472.24	454.23	455.21	517.26	499.25	500.24	516.25	250.62	236.62	259.13	S	1000.46	982.45	983.43	974.48	956.47	957.45	957.45	939.44	940.42	958.46	940.45	941.43	500.73	487.74	479.22	479.73	9
6	101.07	628.29	610.28	611.27	600.30	582.29	583.27	645.32	627.31	628.29	644.31	314.65	300.65	323.16	Q	913.42	895.41	896.40	887.45	869.43	870.42	870.42	852.41	853.39	871.43	853.41	854.40	457.21	444.22	435.71	436.21	8
7	159.09	814.37	796.36	797.35	786.38	768.37	769.35	831.40	813.39	814.37	830.39	407.69	393.69	416.20	W	785.37	767.35	768.34	759.38	741.38	742.36	742.36	724.35	725.33	743.37	725.36	726.34	393.18	380.19	371.68	372.18	7
8	44.05	885.41	867.40	868.38	857.42	839.40	840.39	902.44	884.43	885.41	901.43	443.21	429.21	451.72	A	599.29	581.28	582.26	573.31	555.30	556.28	556.28	538.27	539.25	557.29	539.28	540.26	300.14	287.15	278.64	279.14	6
9	30.03	942.43	924.42	925.40	914.44	896.43	897.41	959.46	941.45	942.43	958.45	471.72	457.72	480.23	G	528.25	510.24	511.22	502.27	484.26	485.24	485.24	467.23	468.22	486.25	468.24	469.22	264.62	251.63	243.12	243.63	5
10	70.07	1039.48	1021.47	1022.46	1011.49	993.48	994.46	1056.51	1038.50	1039.48	1055.50	520.24	506.24	528.76	P	471.23	453.22	454.20	445.25	427.24	428.22	428.22	410.21	411.19	429.23	411.22	412.20	236.11	223.12	214.61	215.11	4
11	86.10	1152.57	1134.56	1135.54	1124.57	1106.56	1107.55	1169.60	1151.58	1152.57	1168.59	576.78	562.79	585.30	L	374.17	356.16	357.15	348.20	330.18	331.17	331.17	313.16	314.14	332.18	314.17	315.15	187.59	174.60	166.08	166.59	3
12	76.02	1255.58	1237.57	1238.55	1227.58	1209.57	1210.56	1272.60	1254.59	1255.58	1271.60	628.29	614.29	636.80	C	261.09	243.08	244.06	235.11	217.10	218.08	218.08	200.07	201.06	219.09	201.08	202.06	131.05	118.06	109.54	110.05	2
13	86.10														L	158.08	140.07	141.05	132.10	114.09	115.07	115.07	97.06	98.05	116.08	98.07	99.06	79.54	66.55	58.04	58.54	1



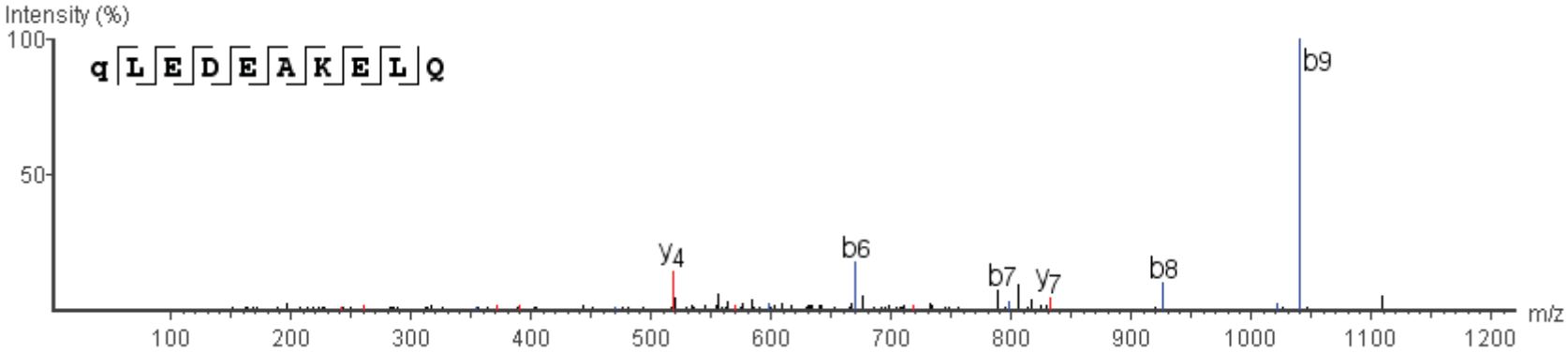
Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
Purkinje cell protein 4	P63054|PEP19_MOUSE	Pep-19	M.S(+42.01)ERQSAGATNGKDKTSGDNDGQKKVQEE FDIDMDAPETERAAVAIQSQFRKFQKKKAGSQS	87.66	2.9	747.0384	9



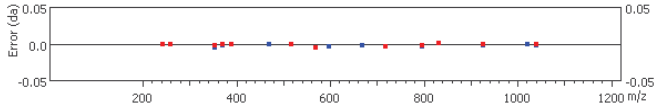
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	102.05	130.05	112.04	113.02	102.05	84.04	85.03	147.05	129.07	130.05	146.07	65.52	51.53	74.04	>(+42.01)																	61
2	102.06	259.09	241.08	242.07	231.10	213.09	214.07	276.12	258.11	259.09	275.11	130.05	116.05	138.56	E	6612.20	6594.19	6595.18	6586.23	6568.21	6569.20	6569.20	6551.19	6552.17	6570.21	6552.20	6553.18	3306.60	3293.61	3285.10	3285.60	60
3	129.11	415.19	397.18	398.17	387.20	369.19	370.17	432.22	414.21	415.19	431.21	208.10	194.10	216.61	R	6483.16	6465.15	6466.13	6457.18	6439.17	6440.16	6440.16	6422.15	6423.13	6441.16	6423.15	6424.14	3242.08	3229.09	3220.58	3221.08	59
4	101.07	543.25	525.24	526.23	515.26	497.25	498.23	560.28	542.27	543.25	559.27	272.13	258.13	280.64	Q	6327.06	6309.05	6310.03	6301.08	6283.07	6284.05	6284.05	6266.04	6267.03	6285.06	6267.05	6268.04	3164.03	3151.04	3142.53	3143.03	58
5	60.04	630.28	612.27	613.26	602.29	584.28	585.26	647.31	629.30	630.28	646.30	315.64	301.64	324.16	S	6199.00	6180.99	6181.98	6173.02	6155.01	6156.00	6156.00	6137.99	6138.97	6157.00	6138.99	6139.98	3100.00	3087.01	3078.50	3079.00	57
6	44.05	701.32	683.31	684.29	673.33	655.32	656.30	718.35	700.34	701.32	717.34	351.16	337.17	359.67	A	6111.97	6093.96	6094.94	6085.99	6067.98	6068.96	6068.96	6050.95	6051.94	6069.97	6051.96	6052.94	3056.48	3043.50	3034.98	3035.49	56
7	30.03	758.34	740.33	741.32	730.35	712.34	713.32	775.37	757.36	758.34	774.36	379.67	365.67	388.18	G	6040.93	6022.92	6023.91	6014.96	5996.94	5997.93	5997.93	5979.92	5980.90	5998.93	5980.92	5981.91	3020.97	3007.98	2999.46	2999.97	55
8	44.05	829.38	811.37	812.35	801.38	783.37	784.36	846.41	828.40	829.38	845.40	415.19	401.19	423.70	A	5983.91	5965.90	5966.88	5957.93	5939.92	5940.90	5940.90	5922.89	5923.88	5941.91	5923.90	5924.89	2992.46	2979.47	2970.95	2971.46	54
9	74.06	930.43	912.42	913.40	902.43	884.42	885.41	947.45	929.44	930.43	946.45	465.71	451.72	474.23	T	5912.87	5894.86	5895.85	5886.90	5868.88	5869.87	5869.87	5851.86	5852.84	5870.88	5852.87	5853.85	2956.94	2943.95	2935.43	2935.94	53
10	87.06	1044.47	1026.46	1027.44	1016.48	998.46	999.45	1061.50	1043.49	1044.47	1060.49	522.74	508.74	531.25	N	5811.83	5793.82	5794.80	5785.85	5767.84	5768.82	5768.82	5750.81	5751.79	5769.83	5751.82	5752.80	2906.41	2893.42	2884.91	2885.41	52
11	30.03	1101.49	1083.48	1084.46	1073.50	1055.49	1056.47	1118.52	1100.51	1101.49	1117.51	551.25	537.25	559.76	G	5697.78	5679.77	5680.76	5671.80	5653.79	5654.78	5654.78	5636.77	5637.75	5655.79	5637.77	5638.76	2849.39	2836.40	2827.89	2828.39	51
12	101.11	1229.59	1211.58	1212.56	1201.59	1183.58	1184.56	1246.61	1228.60	1229.59	1245.61	615.29	601.30	623.81	K	5640.76	5622.75	5623.74	5614.78	5596.77	5597.76	5597.76	5579.75	5580.73	5598.76	5580.75	5581.74	2820.88	2807.89	2799.38	2799.88	50
13	88.04	1344.61	1326.60	1327.59	1316.62	1298.61	1299.59	1361.64	1343.63	1344.61	1360.63	672.81	658.81	681.32	D	5512.67	5494.66	5495.64	5486.69	5468.68	5469.66	5469.66	5451.65	5452.63	5470.67	5452.66	5453.64	2756.83	2743.84	2735.33	2735.83	49
14	101.11	1472.71	1454.70	1455.68	1444.71	1426.70	1427.69	1489.74	1471.73	1472.71	1488.73	736.85	722.86	745.37	K	5397.64	5379.63	5380.61	5371.66	5353.65	5354.63	5354.63	5336.62	5337.61	5355.64	5337.63	5338.61	2699.32	2686.33	2677.82	2678.32	48
15	74.06	1573.76	1555.75	1556.73	1545.76	1527.75	1528.73	1590.78	1572.77	1573.76	1589.78	787.38	773.38	795.89	T	5269.55	5251.54	5252.52	5243.57	5225.56	5226.54	5226.54	5208.53	5209.51	5227.55	5209.54	5210.52	2635.27	2622.28	2613.77	2614.27	47
16	60.04	1660.79	1642.78	1643.76	1632.79	1614.78	1615.77	1677.82	1659.80	1660.79	1676.81	830.89	816.90	839.41	S	5168.50	5150.49	5151.47	5142.52	5124.51	5125.49	5125.49	5107.48	5108.46	5126.50	5108.49	5109.47	2584.75	2571.76	2563.25	2563.75	46
17	30.03	1717.81	1699.80	1700.78	1689.81	1671.80	1672.79	1734.84	1716.83	1717.81	1733.83	859.40	845.41	867.92	G	5081.47	5063.46	5064.44	5055.49	5037.48	5038.46	5038.46	5020.45	5021.43	5039.47	5021.46	5022.44	2541.23	2528.24	2519.73	2520.23	45
18	88.04	1832.84	1814.83	1815.81	1804.84	1786.83	1787.81	1849.86	1831.85	1832.84	1848.86	916.92	902.92	925.43	D	5024.44	5006.43	5007.42	4998.47	4980.45	4981.44	4981.44	4963.43	4964.41	4982.45	4964.44	4965.42	2512.72	2499.73	2491.22	2491.72	44
19	87.06	1946.88	1928.87	1929.85	1918.88	1900.87	1901.86	1963.91	1945.90	1946.88	1962.90	973.94	959.94	982.45	N	4909.42	4891.41	4892.39	4883.44	4865.43	4866.41	4866.41	4848.40	4849.38	4867.42	4849.41	4850.39	2455.21	2442.22	2433.71	2434.21	43
20	88.04	2061.91	2043.90	2044.88	2033.91	2015.90	2016.88	2078.93	2060.92	2061.91	2077.93	1031.46	1017.46	1039.97	D	4795.37	4777.36	4778.35	4769.40	4751.38	4752.37	4752.37	4734.36	4735.34	4753.38	4735.37	4736.35	2398.19	2385.20	2376.68	2377.19	42
21	30.03	2118.93	2100.92	2101.90	2090.93	2072.92	2073.91	2135.96	2117.94	2118.93	2134.95	1059.96	1045.97	1068.48	G	4680.35	4662.34	4663.32	4654.37	4636.36	4637.34	4637.34	4619.33	4620.31	4638.35	4620.34	4621.32	2340.67	2327.68	2319.17	2319.67	41
22	101.07	2246.99	2228.98	2229.96	2218.99	2200.98	2201.96	2264.01	2246.00	2246.99	2263.01	1123.99	1110.00	1132.51	Q	4623.33	4605.32	4606.30	4597.35	4579.34	4580.32	4580.32	4562.31	4563.29	4581.33	4563.32	4564.30	2312.16	2299.17	2290.66	2291.16	40
23	101.11	2375.08	2357.07	2358.05	2347.09	2329.08	2330.06	2392.11	2374.10	2375.08	2391.10	1188.04	1174.04	1196.55	K	4495.27	4477.26	4478.24	4469.29	4451.28	4452.26	4452.26	4434.25	4435.23	4453.27	4435.26	4436.24	2248.13	2235.14	2226.63	2227.13	39
24	101.11	2503.18	2485.17	2486.15	2475.18	2457.17	2458.15	2520.20	2502.19	2503.18	2519.20	1252.09	1238.09	1260.60	K	4367.17	4349.16	4350.15	4341.19	4323.18	4324.17	4324.17	4306.16	4307.14	4325.17	4307.16	4308.15	2184.09	2171.10	2162.58	2163.09	38
25	72.08	2602.25	2584.23	2585.22	2574.25	2556.24	2557.22	2619.27	2601.26	2602.25	2618.26	1301.62	1287.63	1310.14	V	4239.28	4221.07	4222.05	4213.10	4195.09	4196.07	4196.07	4178.06	4179.04	4197.08	4179.07	4180.05	2120.04	2107.05	2098.54	2099.04	37
26	101.07	2730.30	2712.29	2713.28	2702.31	2684.30	2685.28	2747.33	2729.32	2730.30	2746.32	1365.65	1351.65	1374.17	Q	4140.01	4122.00	4122.98	4114.03	4096.02	4097.00	4097.00	4078.99	4079.98	4098.01	4080.00	4080.98	2070.50	2057.51	2049.00	2049.51	36
27	102.06	2859.35	2841.34	2842.32	2831.35	2813.34	2814.32	2876.37	2858.36	2859.35	2875.37	1430.17	1416.18	1438.69	E	4011.95	3993.94	3994.92	3985.97	3967.96	3968.94	3968.94	3950.93	3951.92	3969.95	3951.94	3952.93	2006.48	1993.49	1984.97	1985.48	35
28	102.06	2988.39	2970.38	2971.36	2960.39	2942.38	2943.37	3005.42	2987.41	2988.39	3004.41	1494.69	1480.70	1503.21	E	3882.91	3864.90	3865.88	3856.93	3838.92	3839.90	3839.90	3821.89	3822.87	3840.91	3822.90	3823.88	1941.95	1928.96	1920.45	1920.95	34
29	120.08	3135.46	3117.45	3118.43	3107.46	3089.45	3090.44	3152.48	3134.47	3135.46	3151.48	1568.23	1554.23	1576.74	F	3753.87	3735.85	3736.84	3727.89	3709.88	3710.86	3710.86	3692.85	3693.83	3711.87	3693.86	3694.84	1877.43	1864.44	1855.93	1856.43	33
30	88.04	3250.49	3232.47	3233.46	3222.49	3204.48	3205.46	3267.51	3249.50	3250.49	3266.50	1625.74	1611.74	1634.26	D	3606.80	3588.79	3589.77	3580.82	3562.81	3563.79	3563.79	3545.78	3546.76	3564.80	3546.79	3547.77	1803.90	1790.91	1782.40	1782.90	32
31	86.10	3363.57	3345.56	3346.56	3335.58	3317.56	3318.55	3380.60	3362.58	3363.57	3379.59	1682.28	1668.29	1690.80	I	3491.77	3473.76	3474.74	3465.80	3447.78	3448.76	3448.76	3430.75	3431.74	3449.77	3431.76	3432.74	1746.38	1733.40	1724.88	1725.39	31
32	88.04	3478.60	3460.58	3461.57	3450.60	3432.59	3433.57	3495.62	3477.61	3478.60	3494.61	1739.80	1725.80	1748.31	D	3378.69	3360.68	3361.66	3352.71	3334.70	3335.68	3335.68	3317.67	3318.65	3336.69	3318.68	3319.66	1689.84	1676.85	1668.34	1668.84	30
33	104.05	3609.64	3591.63	3592.61	3581.64	3563.63	3564.61	3626.66	3608.65	3609.64	3625.66	1805.32	1791.32	1813.83	M	3263.66	3245.65	3246.63	3237.68	3219.67	3220.65	3220.65	3202.64	3203.63	3221.66	3203.65	3204.63	1632.33	1619.34	1610.83	1611.33	29
34	88.04	3724.66	3706.65	3707.64	3696.67	3678.66	3679.64	3741.69	3723.68	3724.66	3740.68	1862.83	1848.83	1871.34	D	3132.62	3114.61	3115.59	3106.64	3088.63	3089.61	3089.61	3071.60	3072.59	3090.62	3072.61	3073.59	1566.81	1553.82	1545.31	1545.81	28
35	44.05	3795.70	3777.69	3778.67	3767.70	3749.69	3750.68	3812.73	3794.72	3795.70	3811.72	1898.35	1884.35	1906.86	A	3017.59	2999.58	3000.56	2991.61	2973.60	2974.58	2974.58	2956.57	2957.56	2975.59	2957.58	2958.57	1509.30	1496.31	1487.79	1488.30	27
36	70.07	3892.75	3874.74	3875.73	3864.76	3846.75	3847.73	3909.78	3891.77	3892.75	3908.77	1946.88	1932.88	1955.39	P	2946.55	2928.54	2929.53	2920.58	2902.56	2903.55	2903.55	2885.54	2886.52	2904.56	2886.55	2887.53	1473.78	1460.79	1452.27	1452.78	26
37	102.06	4021.80	4003.78	4004.77	3993.80	3975.79	3976.77	4038.82	4020.81	4021.80	4037.81	2011.40	1997.40	2019.91	E	2849.50	2831.49	2832.47	2823.52	2805.51	2806.50	2806.50	2788.48	2789.47	2807.50	2789.49	2790.48	1425.25	1412.26	1403.75	1404.25	25
38	74.06	4122.84	4104.83	4105.82	4094.85	4076.84	4077.82	4139.87	4121.86	4122.84	4138.86	2061.91	2047.92	2070.43	T	2720.46	2702.45	2703.43	2694.48	2676.47	2677.45	2677.45	2659.44	2660.43	2678.46	2660.45	2661.43	1360.73	1347.74	1339.23	1339.73	24
39	102.06	4251.89	4233.87	4234.86	4223.89	4205.88	4206.86	4268.91	4250.90	4251.89	4267.90	2126.44	2112.45	2134.96	E	2619.41	2601.40	2602.38	2593.43	2575.42	2576.41	2576.41	2558.39	2559.38	2577.41	2559.40	2560.39	1310.21	1297.22	1288.70	1289.21	23
40	129.11	4407.99	4389.98	4390.96	4379.99	4361.98	4362.96	4425.01	4407.00	4407.99	4424.01	2204.49	2190.50	2213.01	R	2490.37	2472.36	2473.34	2464.39	2446.38	2447.36	2447.36	2429.35	2430.34	2448.37	2430.36	2431.34	1245.68	1232.69	1224.18	1224.69	22
41	44.05	4479.02	4461.01	4462.00	4451.03	4433.02	4434.00	4496.05	4478.04	4479.02	4495.04	2240.01	2226.01	2248.53	A	2334.27	2316.26	2317.24	2308.29	2290.28	2291.26	2291.26	2273.25	2274.23	2292.27	2274.26	2275.24	1167.63	1154.64	1146.13	1146.63	21
42	44.05	4550.06	4532.05	4533.03	4522.07	4504.06	4505.04	4567.09	4549.08	4550.06	4566.08	2275.53	2261.53	2284.04	A	2263.23	2245.22	2246.20	2237.25	2219.24	2220.22	2220.22	2202.21	2203.20	2221.23	2203.22	2204.21	1132.12	1119.13	1110.61	1111.12	20
43	72.08	4649.13	4631.12	4632.10	4621.13	4603.12	4604.11	4666.16	4648.15	4649.13	4665.15	2325.06	2311.07	2333.58	V	2192.19	2174.18	2175.17	2166.21	2148.20	2149.19	2149.19	2131.18	2132.16	2150.20	2132.18	2133.17	1096.60	1083.61	1075.09	1075.60	19
44	44.05	4720.17	4702.16	4703.14	4692.17	4674.16	4675.14	4737.19	4719.18	4720.17	4736.19	2360.58	2346.59	2369.10	A	2093.12	2075.11	2076.10	2067.15	2049.14	2050.12	2050.12	2032.11	2033.09	2051.13	2033.12	2034.10	1047.06	1034.07	1025.56	1026.06	18
45	86.10	4833.25	4815.24	4816.22	4805.26	4787.25	4788.23	4850.28	4832.27	4833.25	4849.27	2417.13	2403.13	2425.64	I	2022.09	2004.08	2005.06	1996.11	1978.10	1979.08	1979.08	1961.07	1962.05	1980.09	1962.08	1963.06	1011.54	998.55	990.04	990.54	17
46	101.07	4961.31	4943.30	4944.28	4933.31	4915.30	4916.29	4978.34	4960.33	4961.31	4977.33	2481.15	2467.16	2489.67	Q	1909.00	1890.99	1891.98	1883.02	1865.01	1866.00	1866.00	1847.99	1848.97	1867.01	1848.99	1849.98	955.00	942.01	933.50	934.00	16
47	60.04	5048.34	5030.33	5031.31	5020.35	5002.34	5003.32	5065.37	5047.36	5048.34	5064.36	2524.67	2510.67	2533.18	S	1780.95	1762.93	1763.92	1754.97	1736.96	1737.94	1737.94	1719.93	1720.91	1738.95	1720.94	1721.92	890.97	877.98	869.47	869.97	15
48	101.07	5176.40	5158.39	5159.37	5148.40	5130.39	5131.38	5193.43	5175.42	5176.40	5192.42	2588.70	2574.70	2597.21	Q	1693.91	1675.90	1676.89	1667.93	1649.92	1650.91	1650.91	1632.90	1633.88	1651.91	1633.90	1634.89	847.46	834.47	825.95	826.46	14
49	120.08	5323.47	5305.46	5306.44	5295.47	5277.46	5278.45	5340.49	5322.48	5323.47	5339.49	2662.23	2648.24	2670.75	F	1565.85	1547.84	1548.83	1539.88	1521.86	1522.85	1522.85	1504.84	1505.82	1523.86	1505.85	1506.83	783.43	770.44	761.92	762.43	13
50	129.11	5479.57	5461.56	5462.54	5451.57	5433.56	5434.55	5496.60	5478.59	5479.57	5495.59	2740.28	2726.29	2748.80	R	1418.79	1400.78	1401.76	1392.81	1374.80	1375.78	1375.78	1357.77	1358.75	1376.79	1358.78	1359.76	709.89	696.90	688.39	688.89	12
51	101.11	5607.66	5589.65	5590.64	5579.67	5561.66	5562.64	5624.69	5606.68	5607.66	5623.68	2804.33	2790.33	2812.85	K	1262.69	1244.67	1245.66	1236.71	1218.70	1219.68	1219.68	1201.67	1202.65	1220.69	1202.68	1203.66	631.84	618.85	610.34	610.84	11
52	120.08	5754.73	5736.72	5737.71	5726.74	5708.73	5709.71	5771.76	5753.75	5754.73	5770.75	2877.87	2863.87	2886.38	F	1134.59	1116.58	1117.58	1108.61	1090.60	1091.58	1091.58	1073.57	1074.56	1092.59	1074.58	1075.56	567.80	554.81	546.29	546.80	10
53	101.07	5882.79	5864.78	5865.76	5854.80	5836.79	5837.77	5899.82	5881.81	5882.79	5898.81	2941.90	2927.90	2950.41	Q	987.52	969.51	970.49	961.54	943.53	944.52	944.52	926.50	927.49	945.52	927.51	928.50	494.26	481.27	472.76	473.26	9
54	101.11	6010.89	5992.88	5993.86	5982.89	5964.88	5965.86	6027.91	6009.90	6010.89	6026.90	3005.94	2991.95	3014.46	K	859.46	841.45	842.44	833.48	815.47	816.46	816.46	798.45	799.43	817.46	799.45	800.44	430.23	417.24	408.73	409.23	8
55	101.11	6138.98	6120.97	6121.95	6110.99	6092.98	6093.96	6156.01	6138.00	6138.98	6155.00	3069.99	3055.99	3078.50	K	731.37	713.36	714.34	705.39	687.38	688.36	688.36	670.35	671.33	689.37	671.36	672.34	366.18	353.19	344.68	345.18	7
56	101.11	6267.08	6249.06	6250.05	6239.08	6221.07	6222.05	6284.10	6266.09	6267.08	6283.09	3134.04	3120.04	3142.55	K	603.27	585.26	586.25	577.30	559.28	560.27	560.27	542.26	543.25	561.27	543.25	544.25	302.14	289.15	280.63	281.14	6
57	44.05	6338.11	6320.10	6321.09	6310.12	6292.11	6293.09	6355.14	6337.13	6338.11	6354.13	3169.56	3155.56	3178.07	A	475.18	457.17	458.15	449.20	431.19	432.17	432.17	414.16	415.19	433.14	415.19	416.15	238.09	225.10	216.59	217.09	5
58	30.03	6395.13	6377.12	6378.11	6367.14	6349.13	6350.11	6412.16	6394.15	6395.13	6411.15	3198.07	3184.07	3206.58	G	404.14	386.13	387.11	378.16	360.15	361.13	361.13	343.12	344.11	362.10	344.13	345.12	202.57	189.58	181.07	181.57	4
59	60.04	6482.17	6464.16	6465.14	6454.17	6436.16	6437.14	6499.19	6481.18	6482.17	6498.19	3241.58	3227.59	3250.10	S	347.12	329.11	330.09	321.14	303.13	304.11	304.11	286.10	287.09	305.12	287.11	288.09	174.06	161.07	152.56	153.06	3
60	101.07	6610.23	6592.21	6593.20	6582.23	6564.22	6565.20	6627.25	6609.24	6610.23	6626.24	3305.61	3291.61	3314.13	Q	260.09	242.08	243.06	234.11	216.10	217.08	217.08	199.07	200.05	218.09	200.08	201.06	130.54	117.55	109.04	109.54	2
61	60.04														S	132.03	114.02	115.00	106.05	88.04	89.02	89.02	71.01	72.00	90.03	72.02	73.00	66.51	53.52	45.01	45.52	1



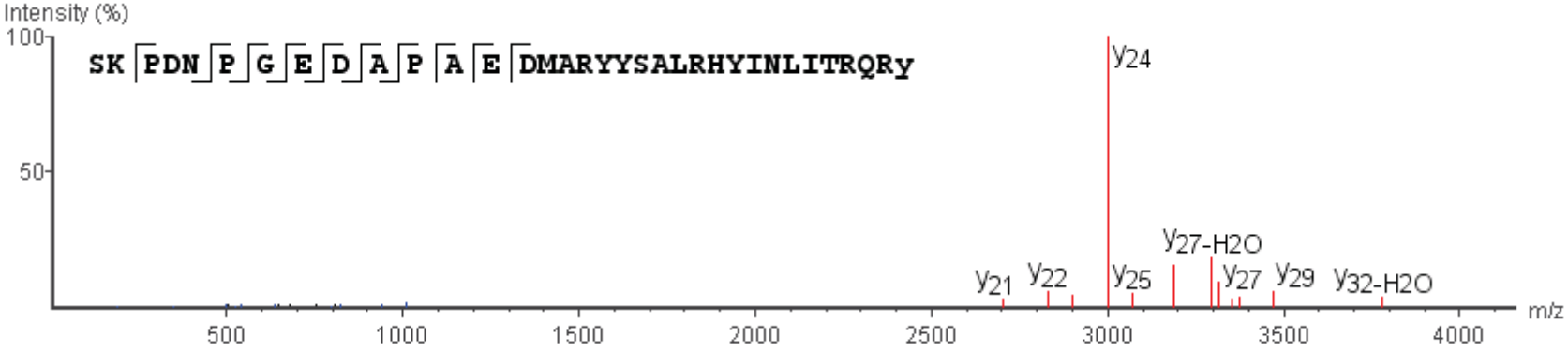
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Proenkephalin-A	P22005|PENK_MOUSE		P.Q(-17.03)LEDEAKELQ.K	66.43	2	593.2864	2



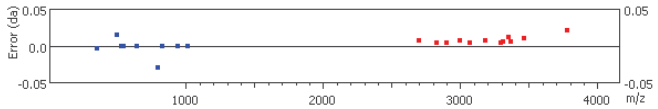
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	10
2	86.10	225.12	207.11	208.09	197.13	179.11	180.10	242.15	224.14	225.12	241.14	113.06	99.06	121.57	L	1100.51	1082.50	1083.48	1074.53	1056.52	1057.50	1057.50	1039.49	1040.48	1058.51	1040.50	1041.49	550.76	537.77	529.25	529.76	9
3	102.06	354.17	336.15	337.14	326.17	308.16	309.14	371.19	353.18	354.17	370.18	177.58	163.58	186.10	E	987.43	969.42	970.40	961.45	943.44	944.42	944.42	926.41	927.39	945.43	927.42	928.40	494.21	481.22	472.71	473.21	8
4	88.04	469.19	451.18	452.16	441.19	423.18	424.17	486.22	468.21	469.19	485.21	235.09	221.10	243.61	D	858.38	840.37	841.36	832.40	814.39	815.38	815.38	797.37	798.35	816.39	798.37	799.36	429.69	416.70	408.19	408.69	7
5	102.06	598.24	580.22	581.21	570.24	552.23	553.21	615.26	597.25	598.24	614.25	299.62	285.62	308.13	E	743.36	725.35	726.33	717.38	699.37	700.35	700.35	682.34	683.32	701.36	683.35	684.33	372.18	359.19	350.68	351.18	6
6	44.05	669.27	651.26	652.24	641.27	623.26	624.25	686.30	668.29	669.27	685.29	335.13	321.14	343.65	A	614.31	596.30	597.29	588.34	570.33	571.31	571.31	553.30	554.28	572.32	554.31	555.29	307.66	294.67	286.15	286.66	5
7	101.11	797.37	779.35	780.34	769.37	751.36	752.34	814.39	796.38	797.37	813.38	399.18	385.18	407.70	K	543.28	525.27	526.25	517.30	499.29	500.27	500.27	482.26	483.24	501.28	483.27	484.25	272.14	259.15	250.64	251.14	4
8	102.06	926.41	908.40	909.38	898.41	880.40	881.39	943.43	925.42	926.41	942.43	463.70	449.71	472.22	E	415.18	397.17	398.16	389.20	371.19	372.18	372.18	354.17	355.15	373.18	355.17	356.16	208.09	195.10	186.59	187.09	3
9	86.10	1039.49	1021.48	1022.46	1011.50	993.49	994.47	1056.52	1038.51	1039.49	1055.51	520.25	506.25	528.76	L	286.14	268.13	269.11	260.16	242.15	243.13	243.13	225.12	226.11	244.14	226.13	227.11	143.57	130.58	122.07	122.57	2
10	101.07														Q	173.06	155.05	156.03	147.08	129.07	130.05	130.05	112.04	113.02	131.06	113.05	114.03	87.03	74.04	65.52	66.03	1



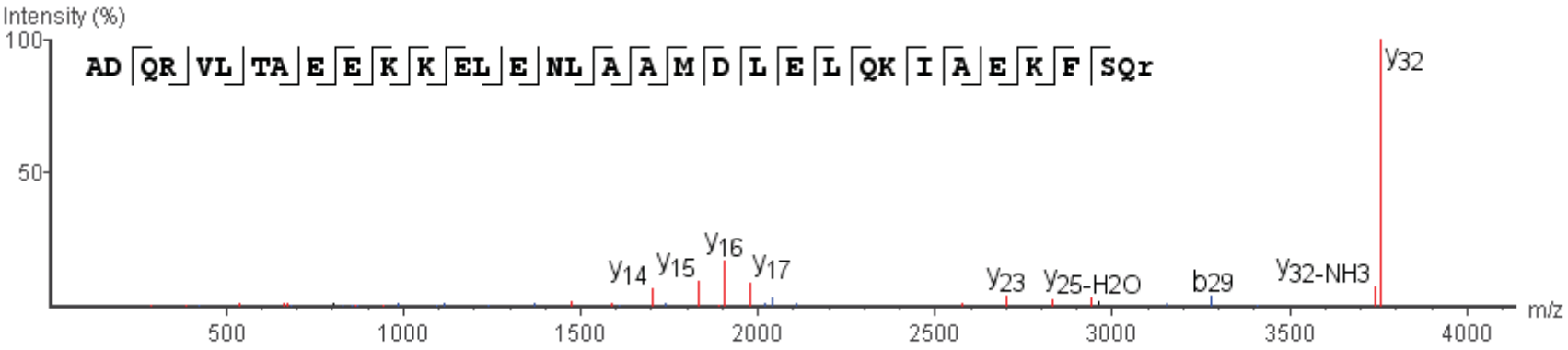
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Pro-neuropeptide Y	P57774|NPY_MOUSE		P.SKPDNPGEDAPAEDMARYYSALRHYINLITRQRY(-.98).G	84.31	3.2	573.7184	7



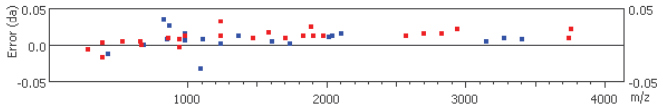
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	60.04	88.04	70.03	71.01	60.04	42.03	43.02	105.07	87.06	88.04	104.06	44.52	30.52	53.03	S																	34
2	101.11	216.13	198.12	199.11	188.14	170.13	171.11	233.16	215.15	216.13	232.15	108.57	94.57	117.08	K	3948.92	3930.91	3931.90	3922.94	3904.93	3905.92	3905.92	3887.91	3888.89	3906.93	3888.91	3889.90	1974.96	1961.97	1953.46	1953.96	33
3	70.07	313.19	295.18	296.16	285.19	267.18	268.17	330.21	312.20	313.19	329.21	157.09	143.10	165.61	P	3820.83	3802.82	3803.80	3794.85	3776.82	3777.82	3777.82	3759.81	3760.80	3778.83	3760.82	3761.80	1910.91	1897.92	1889.41	1889.92	32
4	88.04	428.21	410.20	411.19	400.22	382.21	383.19	445.24	427.23	428.21	444.23	214.61	200.61	223.12	D	3723.78	3705.77	3706.75	3697.80	3679.79	3680.77	3680.77	3662.76	3663.74	3681.78	3663.77	3664.75	1862.39	1849.40	1840.88	1841.39	31
5	87.06	542.26	524.25	525.23	514.26	496.25	497.22	559.28	541.27	542.26	558.28	271.63	257.63	280.14	N	3608.75	3590.74	3591.72	3582.77	3564.76	3565.74	3565.74	3547.73	3548.72	3566.75	3548.74	3549.72	1804.87	1791.88	1783.37	1783.88	30
6	70.07	639.31	621.30	622.28	611.32	593.30	594.29	656.34	638.33	639.31	655.33	320.16	306.16	328.67	P	3494.71	3476.70	3477.68	3468.72	3450.72	3451.70	3451.70	3433.69	3434.67	3452.71	3434.70	3435.68	1747.85	1734.86	1726.35	1726.85	29
7	30.03	696.33	678.32	679.30	668.34	650.33	651.31	713.36	695.35	696.33	712.35	348.67	334.67	357.18	G	3397.65	3379.64	3380.63	3371.67	3353.65	3354.65	3354.65	3336.64	3337.62	3355.66	3337.64	3338.63	1699.33	1686.34	1677.82	1678.33	28
8	102.06	825.37	807.36	808.35	797.41	779.37	780.35	842.40	824.39	825.37	841.39	413.19	399.19	421.70	E	3340.63	3322.62	3323.60	3314.65	3296.64	3297.63	3297.63	3279.61	3280.60	3298.63	3280.62	3281.61	1670.82	1657.83	1649.31	1649.82	27
9	88.04	940.40	922.39	923.37	912.41	894.40	895.38	957.43	939.42	940.40	956.42	470.70	456.70	479.21	D	3211.59	3193.58	3194.56	3185.60	3167.60	3168.58	3168.58	3150.57	3151.56	3169.59	3151.58	3152.56	1606.29	1593.31	1584.79	1585.30	26
10	44.05	1011.44	993.43	994.41	983.44	965.43	966.42	1028.47	1010.45	1011.44	1027.46	506.22	492.22	514.73	A	3096.56	3078.55	3079.54	3070.58	3052.57	3053.56	3053.56	3035.55	3036.53	3054.56	3036.55	3037.54	1548.78	1535.79	1527.28	1527.78	25
11	70.07	1108.49	1090.48	1091.46	1080.50	1062.49	1063.47	1125.52	1107.51	1108.49	1124.51	554.75	540.75	563.26	P	3025.53	3007.51	3008.50	2999.54	2981.54	2982.52	2982.52	2964.51	2965.49	2983.53	2965.52	2966.50	1513.26	1500.27	1491.76	1492.26	24
12	44.05	1179.53	1161.52	1162.50	1151.53	1133.52	1134.51	1196.56	1178.54	1179.53	1195.55	590.26	576.27	598.78	A	2928.47	2910.46	2911.45	2902.49	2884.48	2885.47	2885.47	2867.46	2868.44	2886.47	2868.46	2869.45	1464.74	1451.75	1443.23	1443.74	23
13	102.06	1308.57	1290.56	1291.54	1280.58	1262.57	1263.55	1325.60	1307.59	1308.57	1324.59	654.79	640.79	663.30	E	2857.44	2839.42	2840.41	2831.45	2813.45	2814.43	2814.43	2796.42	2797.40	2815.44	2797.43	2798.41	1429.22	1416.23	1407.71	1408.22	22
14	88.04	1423.60	1405.59	1406.57	1395.60	1377.59	1378.58	1440.62	1422.61	1423.60	1439.62	712.30	698.30	720.81	D	2728.39	2710.38	2711.37	2702.41	2684.40	2685.39	2685.39	2667.38	2668.36	2686.39	2668.38	2669.37	1364.70	1351.71	1343.19	1343.70	21
15	104.05	1554.64	1536.63	1537.61	1526.64	1508.63	1509.62	1571.67	1553.65	1554.64	1570.66	777.82	763.82	786.33	M	2613.37	2595.36	2596.34	2587.39	2569.38	2570.36	2570.36	2552.35	2553.33	2571.37	2553.36	2554.34	1307.18	1294.19	1285.68	1286.18	20
16	44.05	1625.68	1607.66	1608.65	1597.68	1579.67	1580.65	1642.70	1624.69	1625.68	1641.69	813.34	799.34	821.85	A	2482.33	2464.31	2465.30	2456.35	2438.34	2439.32	2439.32	2421.31	2422.29	2440.33	2422.32	2423.30	1241.66	1228.67	1220.16	1220.66	19
17	129.11	1781.78	1763.77	1764.75	1753.78	1735.77	1736.75	1798.80	1780.79	1781.78	1797.80	891.39	877.39	899.90	R	2411.29	2393.28	2394.26	2385.31	2367.30	2368.28	2368.28	2350.27	2351.26	2369.29	2351.28	2352.26	1206.14	1193.15	1184.64	1185.15	18
18	136.08	1944.84	1926.83	1927.81	1916.84	1898.83	1899.82	1961.87	1943.86	1944.84	1960.86	972.92	958.92	981.43	Y	2255.19	2237.18	2238.16	2229.21	2211.20	2212.18	2212.18	2194.17	2195.15	2213.19	2195.18	2196.16	1128.09	1115.10	1106.59	1107.09	17
19	136.08	2107.90	2089.89	2090.88	2079.91	2061.90	2062.88	2124.93	2106.92	2107.90	2123.92	1054.45	1040.45	1062.97	Y	2092.12	2074.11	2075.10	2066.14	2048.13	2049.12	2049.12	2031.11	2032.09	2050.13	2032.11	2033.10	1046.56	1033.57	1025.06	1025.56	16
20	60.04	2194.94	2176.92	2177.91	2166.94	2148.93	2149.91	2211.96	2193.95	2194.94	2210.95	1097.97	1083.97	1106.48	S	1929.06	1911.05	1912.03	1903.08	1885.07	1886.05	1886.05	1868.04	1869.03	1887.06	1869.05	1870.04	965.03	952.04	943.53	944.03	15
21	44.05	2265.97	2247.96	2248.95	2237.98	2219.97	2220.95	2283.00	2264.99	2265.97	2281.99	1133.49	1119.49	1142.00	A	1842.03	1824.02	1825.00	1816.05	1798.04	1799.02	1799.02	1781.01	1782.00	1800.03	1782.02	1783.00	921.51	908.52	900.01	900.52	14
22	86.10	2379.06	2361.05	2362.03	2351.06	2333.05	2334.03	2396.08	2378.07	2379.06	2395.08	1190.03	1176.03	1198.54	L	1770.99	1752.98	1753.96	1745.01	1727.00	1727.99	1727.99	1709.97	1710.96	1728.99	1710.98	1711.97	886.00	873.01	864.49	865.00	13
23	129.11	2535.16	2517.15	2518.13	2507.16	2489.15	2490.14	2552.18	2534.17	2535.16	2551.18	1268.08	1254.08	1276.59	R	1657.91	1639.90	1640.88	1631.93	1613.92	1614.90	1614.90	1596.89	1597.87	1615.91	1597.90	1598.88	829.45	816.46	807.95	808.45	12
24	110.07	2672.22	2654.21	2655.19	2644.22	2626.21	2627.19	2689.24	2671.23	2672.22	2688.24	1336.61	1322.61	1345.12	H	1501.81	1483.80	1484.78	1475.83	1457.82	1458.80	1458.80	1440.79	1441.77	1459.81	1441.80	1442.78	751.40	738.41	729.90	730.40	11
25	136.08	2835.28	2817.27	2818.25	2807.28	2789.27	2790.26	2852.31	2834.30	2835.28	2851.30	1418.14	1404.14	1426.65	Y	1364.75	1346.74	1347.72	1338.77	1320.76	1321.74	1321.74	1303.73	1304.71	1322.75	1304.74	1305.72	682.87	669.88	661.37	661.87	10
26	86.10	2948.36	2930.35	2931.34	2920.37	2902.36	2903.34	2965.39	2947.38	2948.36	2964.38	1474.68	1460.68	1483.20	I	1201.68	1183.67	1184.66	1175.70	1157.69	1158.68	1158.68	1140.67	1141.65	1159.69	1141.68	1142.66	601.34	588.35	579.84	580.34	9
27	87.06	3062.41	3044.40	3045.38	3034.41	3016.40	3017.38	3079.43	3061.42	3062.41	3078.43	1531.70	1517.71	1540.22	N	1088.60	1070.59	1071.57	1062.62	1044.61	1045.59	1045.59	1027.58	1028.57	1046.60	1028.59	1029.57	544.80	531.81	523.30	523.80	8
28	86.10	3175.49	3157.48	3158.46	3147.50	3129.49	3130.47	3192.52	3174.51	3175.49	3191.51	1588.25	1574.25	1596.76	L	974.56	956.55	957.53	948.58	930.57	931.55	931.55	913.54	914.52	932.56	914.55	915.53	487.78	474.79	466.28	466.78	7
29	86.10	3288.57	3270.56	3271.55	3260.58	3242.57	3243.55	3305.60	3287.59	3288.57	3304.59	1644.79	1630.79	1653.30	I	861.47	843.46	844.45	835.49	817.48	818.47	818.47	800.46	801.44	819.47	801.46	802.45	431.24	418.25	409.73	410.24	6
30	74.06	3389.62	3371.61	3372.60	3361.63	3343.62	3344.60	3406.65	3388.64	3389.62	3405.64	1695.31	1681.31	1703.82	T	748.39	730.38	731.36	722.41	704.40	705.38	705.38	687.37	688.36	706.39	688.38	689.36	374.69	361.70	353.19	353.70	5
31	129.11	3545.72	3527.71	3528.70	3517.73	3499.72	3500.70	3562.75	3544.74	3545.72	3561.74	1773.36	1759.36	1781.88	R	647.34	629.33	630.31	621.36	603.35	604.33	604.33	586.32	587.31	605.34	587.33	588.32	324.17	311.18	302.67	303.17	4
32	101.07	3673.78	3655.77	3656.75	3645.79	3627.78	3628.76	3690.81	3672.80	3673.78	3689.80	1837.39	1823.39	1845.90	Q	491.24	473.23	474.21	465.26	447.25	448.23	448.23	430.22	431.21	449.24	431.23	432.21	246.12	233.13	224.62	225.12	3
33	129.11	3829.88	3811.87	3812.86	3801.89	3783.88	3784.86	3846.91	3828.90	3829.88	3845.90	1915.44	1901.44	1923.96	R	363.18	345.17	346.15	337.20	319.19	320.18	320.18	302.16	303.15	321.18	303.17	304.16	182.09	169.10	160.59	161.09	2
34	135.10														Y(-.98)	207.08	189.07	190.05	181.10	163.09	164.07	164.07	146.06	147.05	165.08	147.07	148.05	104.04	91.05	82.54	83.04	1



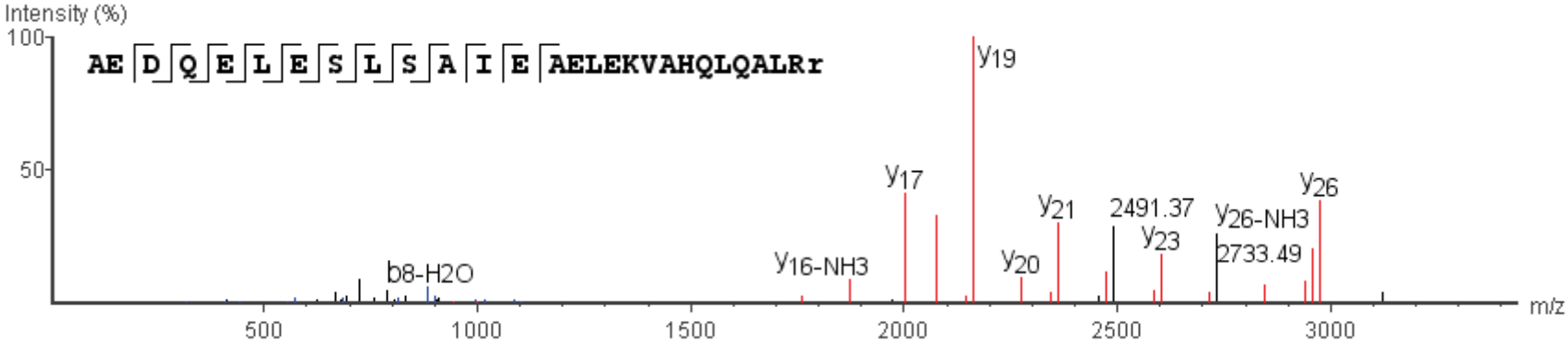
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Secretogranin-1	P16014|SCG1_MOUSE		R.ADQRVLTAEEKKELENLAAMDLELQKIAEKFSQR(-.98).G	129.26	-0.3	789.6237	5



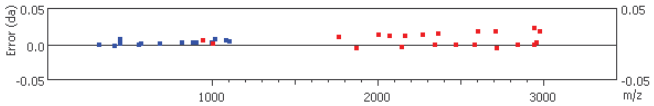
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	44.05	72.04	54.03	55.02	44.05	26.04	27.02	89.07	71.06	72.04	88.06	36.52	22.52	45.04	A																	34
2	88.04	187.07	169.06	170.04	159.08	141.07	142.05	204.10	186.09	187.07	203.09	94.04	80.04	102.55	D	3899.04	3881.03	3882.01	3873.06	3855.05	3856.03	3856.03	3838.02	3839.00	3857.04	3839.03	3840.01	1950.02	1937.03	1928.52	1929.02	33
3	101.07	315.13	297.12	298.10	287.14	269.12	270.11	332.16	314.15	315.13	331.15	158.07	144.07	166.58	Q	3784.01	3766.00	3766.98	3758.01	3740.02	3740.99	3740.99	3722.99	3723.98	3742.01	3724.00	3724.98	1892.51	1879.52	1871.00	1871.51	32
4	129.11	471.23	453.22	454.20	443.24	425.23	426.22	488.26	470.25	471.23	487.25	236.12	222.12	244.63	R	3655.95	3637.94	3638.92	3629.97	3611.96	3612.95	3612.95	3594.93	3595.92	3613.95	3595.94	3596.93	1828.48	1815.49	1806.97	1807.48	31
5	72.08	570.30	552.29	553.27	542.30	524.29	525.28	587.33	569.32	570.30	586.32	285.65	271.65	294.16	V	3499.85	3481.84	3482.82	3473.87	3455.86	3456.84	3456.84	3438.83	3439.82	3457.85	3439.84	3440.82	1750.43	1737.44	1728.92	1729.43	30
6	86.10	683.38	665.37	666.36	655.39	637.38	638.36	700.41	682.40	683.38	699.40	342.19	328.19	350.71	L	3400.78	3382.77	3383.76	3374.80	3356.79	3357.78	3357.78	3339.77	3340.75	3358.78	3340.77	3341.76	1700.89	1687.90	1679.39	1679.89	29
7	74.06	784.43	766.42	767.40	756.44	738.43	739.41	801.46	783.45	784.43	800.45	392.72	378.72	401.23	T	3287.70	3269.69	3270.67	3261.72	3243.71	3244.69	3244.69	3226.68	3227.66	3245.70	3227.69	3228.67	1644.35	1631.36	1622.85	1623.35	28
8	44.05	855.46	837.46	838.44	827.44	809.46	810.45	872.50	854.49	855.46	871.46	428.23	414.24	436.75	A	3186.65	3168.64	3169.62	3160.67	3142.66	3143.64	3143.64	3125.63	3126.62	3144.65	3126.64	3127.62	1593.83	1580.84	1572.32	1572.83	27
9	102.06	984.50	966.50	967.48	956.52	938.51	939.49	1001.54	983.53	984.50	1000.53	492.76	478.76	501.27	E	3115.61	3097.60	3098.59	3089.63	3071.62	3072.61	3072.61	3054.60	3055.58	3073.61	3055.60	3056.59	1558.31	1545.32	1536.80	1537.31	26
10	102.06	1113.54	1095.58	1096.53	1085.56	1067.55	1068.53	1130.58	1112.57	1113.54	1129.57	557.28	543.28	565.79	E	2986.57	2968.56	2969.54	2960.59	2942.56	2943.56	2943.56	2925.55	2926.54	2944.57	2926.56	2927.55	1493.79	1480.80	1472.28	1472.79	25
11	101.11	1241.65	1223.64	1224.62	1213.65	1195.64	1196.63	1258.68	1240.67	1241.65	1257.67	621.32	607.33	629.84	K	2857.53	2839.52	2840.50	2831.53	2813.54	2814.52	2814.52	2796.51	2797.49	2815.53	2797.52	2798.50	1429.26	1416.27	1407.76	1408.26	24
12	101.11	1369.73	1351.73	1352.72	1341.75	1323.74	1324.72	1386.77	1368.76	1369.73	1385.76	685.37	671.37	693.89	K	2729.43	2711.42	2712.41	2703.44	2685.44	2686.43	2686.43	2668.42	2669.40	2687.43	2669.42	2670.41	1365.22	1352.23	1343.71	1344.22	23
13	102.06	1498.79	1480.78	1481.76	1470.79	1452.78	1453.76	1515.81	1497.80	1498.79	1514.81	749.89	735.90	758.41	E	2601.34	2583.33	2584.31	2575.35	2557.35	2558.33	2558.33	2540.32	2541.30	2559.34	2541.33	2542.31	1301.17	1288.18	1279.67	1280.17	22
14	86.10	1611.87	1593.86	1594.84	1583.88	1565.87	1566.85	1628.90	1610.89	1611.87	1627.89	806.44	792.44	814.95	L	2472.30	2454.28	2455.27	2446.32	2428.31	2429.29	2429.29	2411.28	2412.26	2430.30	2412.29	2413.27	1236.65	1223.66	1215.14	1215.65	21
15	102.06	1740.91	1722.90	1723.89	1712.92	1694.91	1695.89	1757.94	1739.93	1740.91	1756.93	870.96	856.96	879.47	E	2359.21	2341.20	2342.18	2333.23	2315.22	2316.21	2316.21	2298.19	2299.18	2317.21	2299.20	2300.19	1180.11	1167.12	1158.60	1159.11	20
16	87.06	1854.96	1836.95	1837.93	1826.96	1808.95	1809.93	1871.98	1853.97	1854.96	1870.98	927.98	913.98	936.49	N	2230.17	2212.16	2213.14	2204.19	2186.18	2187.16	2187.16	2169.15	2170.14	2188.17	2170.16	2171.14	1115.58	1102.59	1094.08	1094.59	19
17	86.10	1968.04	1950.03	1951.01	1940.05	1922.03	1923.02	1985.07	1967.06	1968.04	1984.06	984.50	970.52	993.03	L	2116.13	2098.12	2099.10	2090.15	2072.14	2073.12	2073.12	2055.11	2056.09	2074.13	2056.12	2057.10	1058.56	1045.57	1037.06	1037.56	18
18	44.05	2039.06	2021.07	2022.04	2011.08	1993.07	1994.06	2056.10	2038.09	2039.06	2055.10	1020.04	1006.04	1028.55	A	2003.04	1985.03	1986.01	1977.05	1959.05	1960.04	1960.04	1942.02	1943.01	1961.04	1943.03	1944.02	1002.02	989.03	980.52	981.02	17
19	44.05	2110.10	2092.10	2093.09	2082.12	2064.11	2065.09	2127.14	2109.13	2110.10	2126.13	1055.56	1041.56	1064.07	A	1932.00	1913.99	1914.98	1906.01	1888.01	1889.00	1889.00	1870.99	1871.97	1889.98	1872.00	1872.98	966.50	953.51	945.00	945.49	16
20	104.05	2241.15	2223.14	2224.13	2213.16	2195.15	2196.13	2258.18	2240.17	2241.15	2257.17	1121.08	1107.08	1129.59	M	1860.97	1842.96	1843.94	1834.98	1816.98	1817.96	1817.96	1799.95	1800.93	1818.97	1800.96	1801.94	930.98	917.99	909.48	909.98	15
21	88.04	2356.18	2338.17	2339.15	2328.19	2310.18	2311.16	2373.21	2355.20	2356.18	2372.20	1178.59	1164.59	1187.10	D	1729.93	1711.92	1712.90	1703.94	1685.94	1686.92	1686.92	1668.91	1669.89	1687.93	1669.92	1670.90	865.46	852.47	843.96	844.46	14
22	86.10	2469.27	2451.26	2452.24	2441.27	2423.26	2424.24	2486.29	2468.28	2469.27	2485.29	1235.13	1221.14	1243.65	L	1614.90	1596.89	1597.87	1588.90	1570.91	1571.89	1571.89	1553.88	1554.87	1572.90	1554.89	1555.87	807.95	794.96	786.45	786.95	13
23	102.06	2598.31	2580.30	2581.28	2570.31	2552.30	2553.29	2615.34	2597.32	2598.31	2614.33	1299.65	1285.66	1308.17	E	1501.82	1483.81	1484.79	1475.83	1457.83	1458.81	1458.81	1440.80	1441.78	1459.82	1441.81	1442.79	751.41	738.42	729.90	730.41	12
24	86.10	2711.39	2693.38	2694.37	2683.40	2665.39	2666.37	2728.42	2710.41	2711.39	2727.41	1356.20	1342.20	1364.71	L	1372.77	1354.76	1355.75	1346.79	1328.78	1329.77	1329.77	1311.76	1312.74	1330.78	1312.76	1313.75	686.89	673.90	665.38	665.89	11
25	101.07	2839.45	2821.44	2822.42	2811.46	2793.45	2794.43	2856.48	2838.47	2839.45	2855.47	1420.23	1406.23	1428.74	Q	1259.69	1241.65	1242.65	1233.71	1215.70	1216.68	1216.68	1198.67	1199.66	1217.69	1199.68	1200.66	630.34	617.36	608.84	609.35	10
26	101.11	2967.55	2949.54	2950.52	2939.55	2921.54	2922.52	2984.57	2966.56	2967.55	2983.57	1484.27	1470.28	1492.79	K	1131.63	1113.62	1114.60	1105.65	1087.64	1088.62	1088.62	1070.61	1071.60	1089.63	1071.62	1072.61	566.32	553.33	544.81	545.32	9
27	86.10	3080.63	3062.62	3063.60	3052.64	3034.62	3035.61	3097.66	3079.65	3080.63	3096.65	1540.82	1526.82	1549.33	I	1003.54	985.51	986.51	977.56	959.55	960.53	960.53	942.52	943.50	961.54	943.53	944.51	502.27	489.28	480.76	481.27	8
28	44.05	3151.66	3133.66	3134.64	3123.67	3105.66	3106.65	3168.69	3150.68	3151.66	3167.69	1576.33	1562.34	1584.85	A	890.45	872.44	873.42	864.46	846.46	847.45	847.45	829.44	830.42	848.45	830.44	831.43	445.73	432.74	424.22	424.73	7
29	102.06	3280.70	3262.70	3263.68	3252.71	3234.70	3235.69	3297.74	3279.73	3280.70	3296.73	1640.85	1626.86	1649.37	E	819.41	801.40	802.39	793.44	775.42	776.41	776.41	758.40	759.38	777.42	759.41	760.39	410.21	397.22	388.70	389.23	6
30	101.11	3408.80	3390.79	3391.78	3380.81	3362.80	3363.78	3425.83	3407.82	3408.80	3424.82	1704.90	1690.90	1713.42	K	690.37	672.36	673.35	664.39	646.38	647.37	647.37	629.36	630.34	648.37	630.36	631.35	345.69	332.70	324.18	324.69	5
31	120.08	3555.87	3537.86	3538.85	3527.88	3509.87	3510.85	3572.90	3554.89	3555.87	3571.89	1778.44	1764.44	1786.95	F	562.28	544.27	545.25	536.29	518.29	519.27	519.27	501.26	502.24	520.28	502.27	503.25	281.64	268.65	260.14	260.64	4
32	60.04	3642.91	3624.89	3625.88	3614.91	3596.90	3597.88	3659.93	3641.92	3642.91	3658.92	1821.95	1807.96	1830.47	S	415.21	397.20	398.18	389.23	371.22	372.20	372.20	354.19	355.18	373.21	355.20	356.18	208.10	195.11	186.60	187.11	3
33	101.07	3770.96	3752.95	3753.94	3742.97	3724.96	3725.94	3787.99	3769.98	3770.96	3786.98	1885.98	1871.98	1894.50	Q	328.18	310.17	311.15	302.20	284.19	285.17	285.17	267.16	268.14	286.19	268.17	269.15	164.59	151.60	143.09	143.59	2
34	128.13														R(-.98)	200.12	182.11	183.09	174.14	156.13	157.11	157.11	139.10	140.08	158.12	140.11	141.09	100.56	87.57	79.06	79.56	1



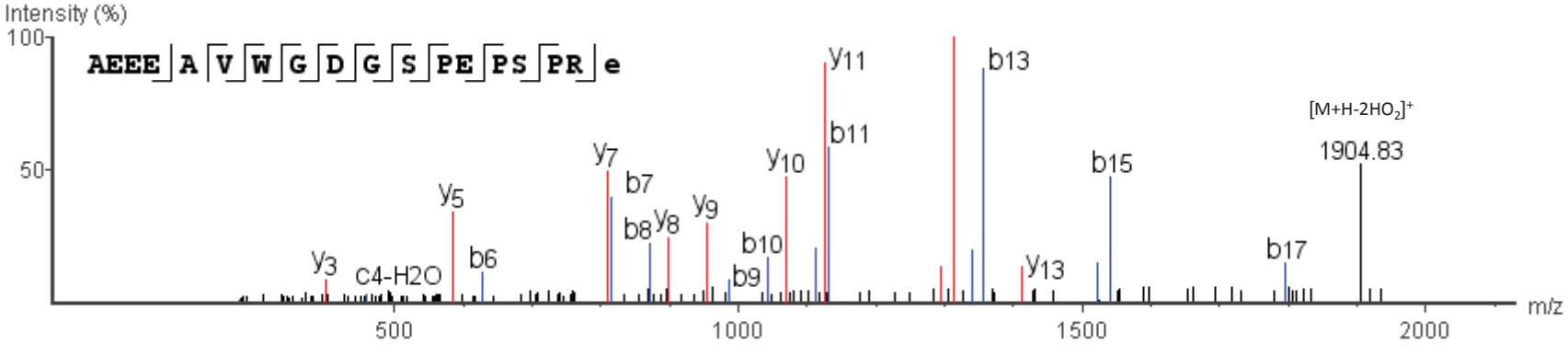
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Chromogranin-A	P26339|CMGA_MOUSE		R.AEDQELESLSAIEAELEKVAHQLQALRR(-.98).G	115.39	-0.8	635.9394	5



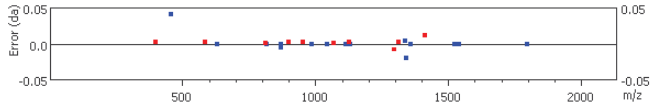
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	44.05	72.04	54.03	55.02	44.05	26.04	27.02	89.07	71.06	72.04	88.06	36.52	22.52	45.04	A																	28
2	102.06	201.09	183.08	184.06	173.09	155.08	156.07	218.11	200.10	201.09	217.11	101.04	87.05	109.56	E	3130.62	3112.61	3113.59	3104.64	3086.63	3087.61	3087.61	3069.60	3070.58	3088.62	3070.61	3071.59	1565.81	1552.82	1544.31	1544.81	27
3	88.04	316.11	298.10	299.09	288.12	270.11	271.09	333.14	315.13	316.11	332.13	158.56	144.56	167.07	D	3001.57	2983.56	2984.55	2975.57	2957.58	2958.56	2958.56	2940.56	2941.54	2959.58	2941.54	2942.55	1501.29	1488.30	1479.78	1480.29	26
4	101.07	444.17	426.16	427.15	416.18	398.17	399.15	461.20	443.18	444.17	460.19	222.59	208.59	231.10	Q	2886.55	2868.54	2869.52	2860.57	2842.56	2843.54	2843.54	2825.53	2826.51	2844.55	2826.54	2827.52	1443.77	1430.78	1422.27	1422.77	25
5	102.06	573.21	555.21	556.19	545.22	527.21	528.19	590.24	572.23	573.21	589.23	287.11	273.11	295.62	E	2758.49	2740.48	2741.46	2732.51	2714.48	2715.49	2715.49	2697.47	2698.46	2716.49	2698.48	2699.46	1379.74	1366.75	1358.24	1358.75	24
6	86.10	686.30	668.29	669.27	658.30	640.29	641.28	703.33	685.32	686.30	702.32	343.65	329.65	352.16	L	2629.45	2611.44	2612.42	2603.45	2585.46	2586.44	2586.44	2568.43	2569.41	2587.45	2569.44	2570.42	1315.22	1302.23	1293.72	1294.22	23
7	102.06	815.34	797.33	798.32	787.35	769.34	770.32	832.37	814.36	815.34	831.36	408.17	394.17	416.68	E	2516.36	2498.35	2499.33	2490.38	2472.37	2473.36	2473.36	2455.34	2456.33	2474.36	2456.35	2457.34	1258.68	1245.69	1237.18	1237.68	22
8	60.04	902.37	884.36	885.35	874.38	856.37	857.35	919.40	901.39	902.37	918.39	451.69	437.69	460.20	S	2387.32	2369.31	2370.29	2361.32	2343.33	2344.31	2344.31	2326.30	2327.29	2345.32	2327.31	2328.29	1194.16	1181.17	1172.66	1173.16	21
9	86.10	1015.45	997.44	998.43	987.46	969.45	970.44	1032.49	1014.47	1015.45	1031.48	508.23	494.23	516.74	L	2300.29	2282.28	2283.26	2274.29	2256.30	2257.28	2257.28	2239.27	2240.25	2258.29	2240.28	2241.26	1150.64	1137.65	1129.14	1129.64	20
10	60.04	1102.49	1084.47	1085.46	1074.50	1056.48	1057.47	1119.52	1101.51	1102.49	1118.51	551.75	537.75	560.26	S	2187.20	2169.19	2170.18	2161.21	2143.21	2144.20	2144.20	2126.19	2127.17	2145.20	2127.19	2128.18	1094.10	1081.11	1072.60	1073.10	19
11	44.05	1173.53	1155.52	1156.50	1145.53	1127.52	1128.51	1190.55	1172.54	1173.53	1189.55	587.26	573.27	595.78	A	2100.17	2082.16	2083.14	2074.18	2056.18	2057.16	2057.16	2039.15	2040.14	2058.17	2040.16	2041.15	1050.59	1037.60	1029.08	1029.59	18
12	86.10	1286.61	1268.60	1269.58	1258.62	1240.61	1241.59	1303.64	1285.63	1286.61	1302.63	643.81	629.81	652.32	I	2029.13	2011.12	2012.11	2003.14	1985.14	1986.13	1986.13	1968.12	1969.10	1987.14	1969.13	1970.11	1013.07	1002.06	993.56	994.07	17
13	102.06	1415.65	1397.64	1398.63	1387.66	1369.65	1370.63	1432.68	1414.67	1415.65	1431.67	708.33	694.33	716.84	E	1916.05	1898.04	1899.02	1890.07	1872.06	1873.05	1873.05	1855.03	1856.02	1874.05	1856.04	1857.02	958.53	945.53	937.02	937.53	16
14	44.05	1486.69	1468.68	1469.66	1458.70	1440.69	1441.67	1503.72	1485.71	1486.69	1502.71	743.85	729.85	752.36	A	1787.01	1769.00	1769.98	1761.02	1743.02	1744.00	1744.00	1725.99	1726.97	1745.01	1727.00	1727.98	894.00	881.01	872.50	873.00	15
15	102.06	1615.73	1597.72	1598.71	1587.74	1569.73	1570.71	1632.76	1614.75	1615.73	1631.75	808.37	794.37	816.88	E	1715.97	1697.96	1698.94	1689.99	1671.98	1672.96	1672.96	1654.95	1655.94	1673.97	1655.96	1656.94	858.49	845.50	836.98	837.49	14
16	86.10	1728.82	1710.81	1711.79	1700.82	1682.81	1683.80	1745.84	1727.83	1728.82	1744.84	864.91	850.91	873.42	L	1586.93	1568.92	1569.90	1560.95	1542.94	1543.92	1543.92	1525.91	1526.89	1544.93	1526.92	1527.90	793.96	780.97	772.46	772.96	13
17	102.06	1857.86	1839.85	1840.83	1829.87	1811.85	1812.84	1874.89	1856.88	1857.86	1873.88	929.43	915.43	937.94	E	1473.84	1455.83	1456.82	1447.86	1429.85	1430.84	1430.84	1412.83	1413.81	1431.85	1413.83	1414.82	737.42	724.43	715.92	716.42	12
18	101.11	1985.96	1967.94	1968.93	1957.96	1939.95	1940.93	2002.98	1984.97	1985.96	2001.97	993.48	979.48	1001.99	K	1344.80	1326.79	1327.77	1318.82	1300.81	1301.79	1301.79	1283.78	1284.77	1302.80	1284.79	1285.78	672.90	659.91	651.40	651.90	11
19	72.08	2085.02	2067.01	2068.00	2057.03	2039.02	2040.00	2102.05	2084.04	2085.02	2101.04	1043.01	1029.01	1051.53	V	1216.71	1198.70	1199.68	1190.73	1172.72	1173.70	1173.70	1155.69	1156.67	1174.71	1156.70	1157.68	608.85	595.86	587.35	587.85	10
20	44.05	2156.06	2138.05	2139.03	2128.07	2110.06	2111.04	2173.09	2155.08	2156.06	2172.08	1078.53	1064.53	1087.04	A	1117.64	1099.63	1100.61	1091.66	1073.65	1074.63	1074.63	1056.62	1057.60	1075.64	1057.63	1058.61	559.32	546.33	537.82	538.32	9
21	110.07	2293.12	2275.11	2276.09	2265.12	2247.11	2248.10	2310.15	2292.14	2293.12	2309.14	1147.06	1133.06	1155.57	H	1046.60	1028.59	1029.57	1020.62	1002.61	1003.59	1003.59	985.58	986.57	1004.60	986.59	987.58	523.80	510.81	502.30	502.80	8
22	101.07	2421.18	2403.17	2404.15	2393.18	2375.17	2376.16	2438.21	2420.19	2421.18	2437.20	1211.09	1197.09	1219.60	Q	909.54	891.53	892.51	883.56	865.55	866.54	866.54	848.52	849.51	867.54	849.53	850.52	455.27	442.28	433.77	434.27	7
23	86.10	2534.26	2516.25	2517.24	2506.27	2488.26	2489.24	2551.29	2533.28	2534.26	2550.28	1267.63	1253.63	1276.14	L	781.48	763.47	764.46	755.50	737.49	738.48	738.48	720.47	721.45	739.48	721.47	722.46	391.24	378.25	369.74	370.24	6
24	101.07	2662.32	2644.31	2645.29	2634.33	2616.32	2617.30	2679.35	2661.34	2662.32	2678.34	1331.66	1317.66	1340.17	Q	668.40	650.39	651.37	642.42	624.41	625.39	625.39	607.38	608.37	626.40	608.39	609.37	334.70	321.71	313.20	313.70	5
25	44.05	2733.36	2715.35	2716.33	2705.36	2687.35	2688.34	2750.39	2732.37	2733.36	2749.38	1367.18	1353.18	1375.69	A	540.34	522.33	523.31	514.36	496.35	497.33	497.33	479.32	480.31	498.34	480.33	481.32	270.67	257.68	249.17	249.67	4
26	86.10	2846.44	2828.43	2829.42	2818.45	2800.44	2801.42	2863.47	2845.46	2846.44	2862.46	1423.72	1409.72	1432.23	L	469.30	451.29	452.28	443.32	425.31	426.30	426.30	408.29	409.27	427.30	409.29	410.28	235.15	222.16	213.65	214.15	3
27	129.11	3002.54	2984.53	2985.52	2974.55	2956.54	2957.52	3019.57	3001.56	3002.54	3018.56	1501.77	1487.77	1510.29	R	356.22	338.21	339.19	330.24	312.23	313.21	313.21	295.20	296.19	314.22	296.21	297.19	178.61	165.62	157.11	157.61	2
28	128.13														R(-.98)	200.12	182.11	183.09	174.14	156.13	157.11	157.11	139.10	140.08	158.12	140.11	141.09	100.56	87.57	79.06	79.56	1



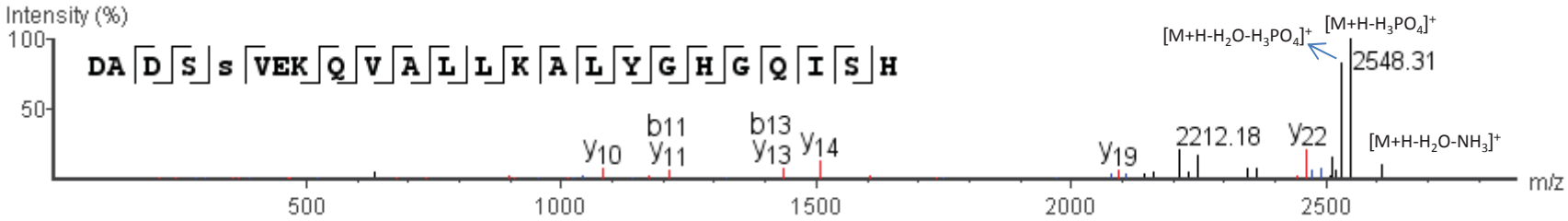
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Pro-opiomelanocortin	P01193|COLI_MOUSE	JPEPTIDE	R.AEEEAVWGDGSPEPSPRE(-.98).G	92.97	5.2	970.9397	2



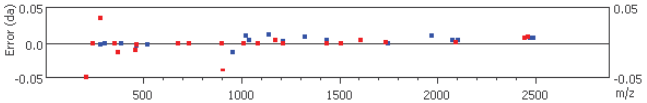
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	44.05	72.04	54.03	55.02	44.05	26.04	27.02	89.07	71.06	72.04	88.06	36.52	22.52	45.04	A																	18
2	102.06	201.09	183.08	184.06	173.09	155.08	156.07	218.11	200.10	201.09	217.11	101.04	87.05	109.56	E	1895.81	1877.80	1878.78	1869.83	1851.82	1852.80	1852.80	1834.79	1835.77	1853.81	1835.80	1836.78	948.40	935.41	926.90	927.40	17
3	102.06	330.13	312.12	313.10	302.14	284.12	285.11	347.16	329.15	330.13	346.15	165.57	151.57	174.08	E	1766.77	1748.76	1749.74	1740.79	1722.78	1723.76	1723.76	1705.75	1706.73	1724.77	1706.76	1707.74	883.88	870.89	862.38	862.88	16
4	102.06	459.17	441.16	442.15	431.18	413.17	414.15	476.20	458.15	459.17	475.19	230.09	216.09	238.60	E	1637.72	1619.71	1620.70	1611.74	1593.73	1594.72	1594.72	1576.71	1577.69	1595.72	1577.71	1578.70	819.36	806.37	797.86	798.36	15
5	44.05	530.21	512.20	513.18	502.21	484.20	485.19	547.24	529.23	530.21	546.23	265.60	251.61	274.12	A	1508.68	1490.67	1491.65	1482.70	1464.69	1465.67	1465.67	1447.66	1448.65	1466.68	1448.67	1449.66	754.84	741.85	733.34	733.84	14
6	72.08	629.28	611.27	612.25	601.28	583.27	584.26	646.31	628.29	629.28	645.30	315.14	301.14	323.65	V	1437.64	1419.63	1420.62	1411.65	1393.65	1394.64	1394.64	1376.63	1377.61	1395.64	1377.63	1378.62	719.32	706.33	697.82	698.32	13
7	159.09	815.36	797.35	798.33	787.36	769.35	770.34	832.38	814.37	815.36	831.38	408.18	394.18	416.69	W	1338.57	1320.56	1321.55	1312.59	1294.59	1295.57	1295.57	1277.56	1278.54	1296.58	1278.57	1279.55	669.79	656.80	648.28	648.79	12
8	30.03	872.38	854.37	855.35	844.38	826.37	827.36	889.41	871.40	872.38	888.40	436.69	422.69	445.20	G	1152.50	1134.49	1135.47	1126.51	1108.51	1109.49	1109.49	1091.48	1092.46	1110.50	1092.49	1093.47	576.75	563.76	555.24	555.75	11
9	88.04	987.41	969.40	970.38	959.41	941.40	942.38	1004.43	986.42	987.41	1003.43	494.20	480.21	502.72	D	1095.47	1077.46	1078.45	1069.49	1051.48	1052.47	1052.47	1034.46	1035.44	1053.48	1035.47	1036.45	548.24	535.25	526.73	527.24	10
10	30.03	1044.43	1026.42	1027.40	1016.43	998.42	999.41	1061.45	1043.44	1044.43	1060.45	522.71	508.72	531.23	G	980.45	962.44	963.42	954.46	936.46	937.44	937.44	919.43	920.41	938.45	920.44	921.42	490.72	477.73	469.22	469.72	9
11	60.04	1131.46	1113.45	1114.43	1103.46	1085.45	1086.44	1148.49	1130.48	1131.46	1147.48	566.23	552.23	574.74	S	923.43	905.42	906.40	897.44	879.44	880.42	880.42	862.41	863.39	881.43	863.42	864.40	462.21	449.22	440.71	441.21	8
12	70.07	1228.51	1210.50	1211.49	1200.52	1182.51	1183.49	1245.54	1227.53	1228.51	1244.53	614.76	600.76	623.27	P	836.39	818.38	819.37	810.41	792.40	793.39	793.39	775.38	776.36	794.40	776.38	777.37	418.70	405.71	397.19	397.70	7
13	102.06	1357.55	1339.54	1340.55	1329.56	1311.55	1312.53	1374.58	1356.57	1357.55	1373.57	679.28	665.28	687.79	E	739.34	721.33	722.31	713.36	695.35	696.33	696.33	678.32	679.31	697.34	679.33	680.32	370.17	357.18	348.67	349.17	6
14	70.07	1454.61	1436.60	1437.58	1426.61	1408.60	1409.59	1471.63	1453.62	1454.61	1470.63	727.80	713.81	736.32	P	610.30	592.29	593.27	584.32	566.31	567.29	567.29	549.28	550.27	568.30	550.29	551.27	305.65	292.66	284.15	284.65	5
15	60.04	1541.64	1523.63	1524.61	1513.64	1495.63	1496.62	1558.67	1540.66	1541.64	1557.66	771.32	757.32	779.83	S	513.25	495.24	496.22	487.27	469.26	470.24	470.24	452.23	453.21	471.25	453.24	454.22	257.12	244.13	235.62	236.12	4
16	70.07	1638.69	1620.68	1621.67	1610.70	1592.69	1593.67	1655.72	1637.71	1638.69	1654.71	819.85	805.85	828.36	P	426.21	408.20	409.19	400.23	382.22	383.21	383.21	365.20	366.18	384.22	366.20	367.19	213.61	200.62	192.10	192.61	3
17	129.11	1794.79	1776.78	1777.77	1766.80	1748.79	1749.77	1811.82	1793.81	1794.79	1810.81	897.90	883.90	906.41	R	329.16	311.15	312.13	303.18	285.17	286.15	286.15	268.14	269.13	287.16	269.15	270.14	165.08	152.09	143.58	144.08	2
18	101.08														E(-.98)	173.06	155.05	156.03	147.08	129.07	130.05	130.05	112.04	113.03	131.06	113.05	114.03	87.03	74.04	65.53	66.03	1



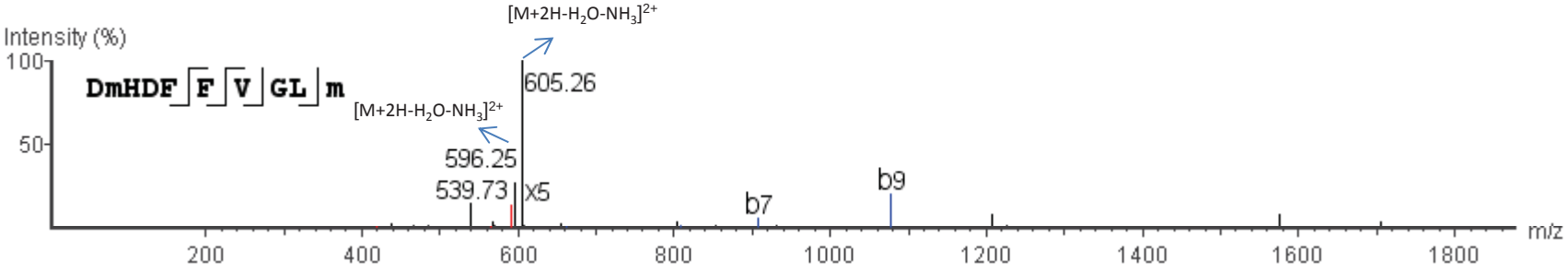
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Protachykinin-1	P41539|TKN1_MOUSE		R.DAD(+79.97)SSVEKQVALLKALYGHGQISH.K	50.98	11	662.3292	4



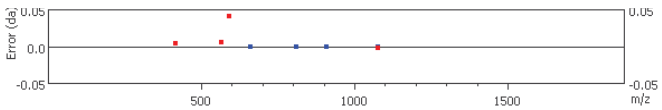
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	88.04	116.03	98.02	99.01	88.04	70.03	71.01	133.06	115.05	116.03	132.05	58.52	44.52	67.03	D																	24
2	44.05	187.07	169.06	170.04	159.08	141.07	142.05	204.10	186.09	187.07	203.09	94.04	80.04	102.55	A	2557.25	2539.24	2540.22	2531.27	2513.26	2514.24	2514.24	2496.23	2497.22	2515.25	2497.24	2498.22	1279.12	1266.13	1257.62	1258.12	23
3	88.04	302.10	284.09	285.07	274.10	256.09	257.08	319.13	301.12	302.10	318.12	151.55	137.55	160.06	D	2486.21	2468.20	2469.18	2460.22	2442.22	2443.20	2443.20	2425.19	2426.18	2444.21	2426.20	2427.19	1243.61	1230.62	1222.10	1222.61	22
4	60.04	389.13	371.12	372.10	361.14	343.13	344.11	406.16	388.15	389.13	405.15	195.07	181.07	203.58	S	2371.18	2353.17	2354.16	2345.20	2327.19	2328.18	2328.18	2310.17	2311.15	2329.19	2311.18	2312.16	1186.09	1173.10	1164.59	1165.09	21
5	140.01	556.13	538.12	539.11	528.14	510.13	511.11	573.16	555.15	556.13	572.15	278.57	264.57	287.08	S(+79.97)	2284.15	2266.14	2267.13	2258.17	2240.16	2241.15	2241.15	2223.14	2224.12	2242.15	2224.14	2225.13	1142.58	1129.59	1121.07	1121.58	20
6	72.08	655.20	637.19	638.17	627.21	609.20	610.18	672.23	654.22	655.20	671.22	328.10	314.10	336.61	V	2117.15	2099.14	2100.12	2091.17	2073.16	2074.14	2074.14	2056.13	2057.12	2075.15	2057.14	2058.12	1059.08	1046.09	1037.57	1038.08	19
7	102.06	784.24	766.23	767.22	756.25	738.24	739.22	801.27	783.26	784.24	800.26	392.62	378.62	401.14	E	2018.08	2000.07	2001.05	1992.10	1974.09	1975.08	1975.08	1957.06	1958.05	1976.08	1958.07	1959.06	1009.54	996.55	988.04	988.54	18
8	101.11	912.34	894.33	895.31	884.34	866.33	867.32	929.37	911.36	912.34	928.36	456.67	442.67	465.19	K	1889.04	1871.03	1872.01	1863.06	1845.05	1846.03	1846.03	1828.02	1829.01	1847.04	1829.03	1830.01	945.02	932.03	923.52	924.02	17
9	101.07	1040.39	1022.38	1023.37	1012.40	994.39	995.38	1057.42	1039.41	1040.39	1056.42	520.70	506.70	529.21	Q	1760.94	1742.93	1743.92	1734.96	1716.95	1717.94	1717.94	1699.93	1700.91	1718.95	1700.94	1701.92	880.97	867.98	859.47	859.97	16
10	72.08	1139.45	1121.46	1122.44	1111.47	1093.46	1094.44	1156.49	1138.48	1139.45	1155.48	570.23	556.24	578.75	V	1632.89	1614.88	1615.86	1606.90	1588.90	1589.88	1589.88	1571.87	1572.85	1590.89	1572.88	1573.86	816.94	803.95	795.44	795.94	15
11	44.05	1210.50	1192.49	1193.48	1182.51	1164.50	1165.48	1227.53	1209.52	1210.50	1226.52	605.75	591.75	614.26	A	1533.82	1515.81	1516.79	1507.84	1489.83	1490.81	1490.81	1472.80	1473.78	1491.82	1473.81	1474.79	767.41	754.42	745.91	746.41	14
12	86.10	1323.58	1305.58	1306.56	1295.59	1277.58	1278.56	1340.61	1322.60	1323.58	1339.61	662.29	648.30	670.81	L	1462.78	1444.77	1445.75	1436.80	1418.79	1419.77	1419.77	1401.76	1402.75	1420.78	1402.77	1403.75	731.89	718.90	710.39	710.89	13
13	86.10	1436.67	1418.66	1419.64	1408.68	1390.67	1391.65	1453.70	1435.69	1436.67	1452.69	718.84	704.84	727.35	L	1349.70	1331.69	1332.67	1323.72	1305.71	1306.69	1306.69	1288.68	1289.66	1307.70	1289.69	1290.67	675.35	662.36	653.84	654.35	12
14	101.11	1564.77	1546.76	1547.74	1536.77	1518.76	1519.74	1581.79	1563.78	1564.77	1580.79	782.88	768.89	791.40	K	1236.61	1218.60	1219.59	1210.63	1192.62	1193.61	1193.61	1175.60	1176.58	1194.61	1176.60	1177.59	618.81	605.82	597.30	597.81	11
15	44.05	1635.80	1617.79	1618.78	1607.81	1589.80	1590.78	1652.83	1634.82	1635.80	1651.82	818.40	804.40	826.92	A	1108.52	1090.51	1091.49	1082.54	1064.53	1065.51	1065.51	1047.50	1048.48	1066.52	1048.51	1049.49	554.76	541.77	533.26	533.76	10
16	86.10	1748.89	1730.88	1731.86	1720.89	1702.88	1703.87	1765.91	1747.90	1748.89	1764.91	874.94	860.95	883.46	L	1037.48	1019.47	1020.45	1011.50	993.49	994.47	994.47	976.46	977.45	995.48	977.47	978.45	519.24	506.25	497.74	498.24	9
17	136.08	1911.95	1893.94	1894.92	1883.96	1865.94	1866.93	1928.98	1910.97	1911.95	1927.97	956.49	942.48	964.99	Y	924.40	906.39	907.41	898.42	880.41	881.39	881.39	863.38	864.36	882.40	864.39	865.37	462.71	449.71	441.19	441.70	8
18	30.03	1968.96	1950.96	1951.94	1940.98	1922.97	1923.95	1986.00	1967.99	1968.96	1984.99	984.99	970.99	993.50	G	761.33	743.32	744.31	735.35	717.34	718.33	718.33	700.32	701.30	719.33	701.32	702.31	381.17	368.19	359.66	360.17	7
19	110.07	2106.02	2088.02	2089.00	2078.03	2060.03	2061.01	2123.06	2105.05	2106.02	2122.05	1053.52	1039.52	1062.03	H	704.31	686.30	687.28	678.33	660.32	661.30	661.30	643.29	644.28	662.31	644.30	645.29	352.66	339.67	331.15	331.66	6
20	30.03	2163.05	2145.04	2146.03	2135.06	2117.05	2118.03	2180.08	2162.07	2163.05	2179.07	1082.03	1068.03	1090.54	G	567.25	549.24	550.23	541.27	523.26	524.25	524.25	506.24	507.22	525.25	507.24	508.23	284.09	271.14	262.62	263.13	5
21	101.07	2291.11	2273.10	2274.08	2263.12	2245.11	2246.09	2308.14	2290.13	2291.11	2307.13	1146.06	1132.06	1154.57	Q	510.23	492.22	493.20	484.25	466.24	467.22	467.22	449.21	450.20	468.23	450.22	451.21	255.62	242.63	234.11	234.62	4
22	86.10	2404.20	2386.18	2387.17	2376.20	2358.19	2359.17	2421.22	2403.21	2404.20	2420.21	1202.60	1188.60	1211.11	I	382.17	364.16	365.15	356.19	338.18	339.17	339.17	321.16	322.14	340.17	322.16	323.15	191.59	178.60	170.08	170.59	3
23	60.04	2491.22	2473.21	2474.20	2463.23	2445.22	2446.21	2508.25	2490.24	2491.22	2507.25	1246.11	1232.12	1254.63	S	269.09	251.08	252.06	243.11	225.10	226.08	226.08	208.07	209.05	227.09	209.08	210.11	135.04	122.05	113.54	114.04	2
24	110.07														H	182.06	164.05	165.03	156.08	138.07	139.05	139.05	121.04	122.02	140.06	122.05	123.03	91.53	78.54	70.02	70.53	1



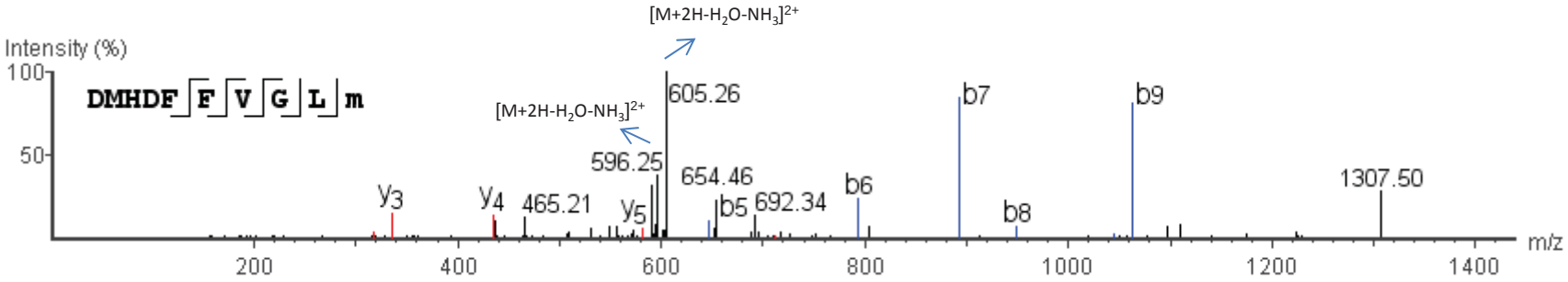
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Tachykinin-3	P55099|TKNK_MOUSE		R.DM(+15.99)HDFFVGLM(-.98).G	50.52	0.5	613.7706	2



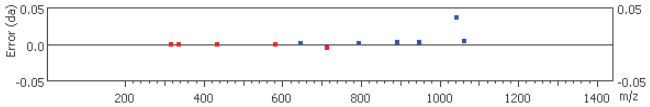
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	88.04	116.03	98.02	99.01	88.04	70.03	71.01	133.06	115.05	116.03	132.05	58.52	44.52	67.03	D																	10
2	120.04	263.07	245.05	246.04	235.07	217.06	218.04	280.09	262.08	263.07	279.08	132.03	118.04	140.55	M(+15.99)	1137.48	1119.47	1120.46	1111.51	1093.49	1094.48	1094.48	1076.47	1077.45	1095.49	1077.48	1078.46	569.24	556.25	547.74	548.24	9
3	110.07	400.12	382.11	383.10	372.13	354.12	355.10	417.15	399.14	400.12	416.14	200.56	186.56	209.08	H	990.45	972.44	973.43	964.47	946.46	947.45	947.45	929.44	930.42	948.46	930.45	931.43	495.73	482.74	474.22	474.73	8
4	88.04	515.15	497.14	498.12	487.16	469.15	470.13	532.18	514.17	515.15	531.17	258.08	244.08	266.59	D	853.40	835.38	836.37	827.42	809.41	810.39	810.39	792.38	793.36	811.40	793.39	794.37	427.20	414.21	405.69	406.20	7
5	120.08	662.22	644.21	645.19	634.22	616.21	617.20	679.25	661.24	662.22	678.24	331.61	317.61	340.12	F	738.37	720.36	721.34	712.39	694.38	695.36	695.36	677.35	678.34	696.37	678.36	679.34	369.68	356.69	348.18	348.68	6
6	120.08	809.29	791.28	792.26	781.29	763.28	764.27	826.31	808.30	809.29	825.31	405.14	391.15	413.66	F	591.26	573.29	574.27	565.31	547.31	548.29	548.29	530.28	531.27	549.30	531.29	532.27	296.15	283.16	274.65	275.15	5
7	72.08	908.36	890.35	891.33	880.36	862.35	863.33	925.38	907.37	908.36	924.38	454.68	440.68	463.19	V	444.23	426.22	427.20	418.25	400.24	401.23	401.23	383.21	384.20	402.23	384.22	385.21	222.62	209.63	201.11	201.62	4
8	30.03	965.38	947.37	948.35	937.38	919.37	920.36	982.40	964.39	965.38	981.40	483.19	469.19	491.70	G	345.16	327.15	328.14	319.18	301.17	302.16	302.16	284.15	285.13	303.16	285.15	286.14	173.08	160.09	151.58	152.08	3
9	86.10	1078.46	1060.45	1061.43	1050.47	1032.46	1033.44	1095.49	1077.48	1078.46	1094.48	539.73	525.73	548.24	L	288.14	270.13	271.11	262.16	244.15	245.14	245.14	227.12	228.11	246.14	228.13	229.12	144.57	131.58	123.07	123.57	2
10	103.07														M(-.98)	175.06	157.05	158.03	149.08	131.07	132.05	132.05	114.04	115.02	133.06	115.05	116.03	88.03	75.04	66.53	67.03	1



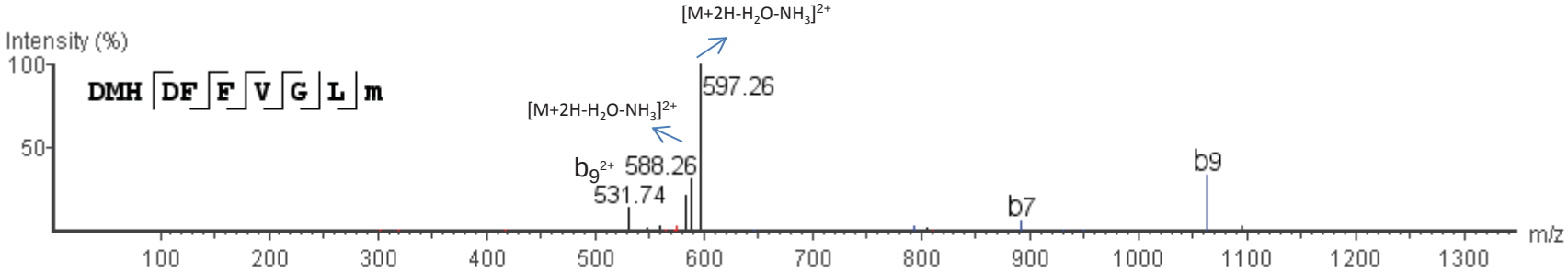
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Tachykinin-3	P55099|TKNK_MOUSE		R.DMHDFFVGLM(-.98)(+15.99).G	62.33	0.7	613.7707	2



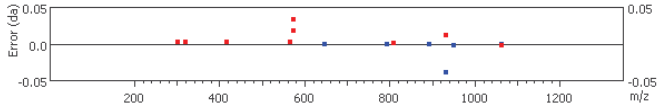
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	88.04	116.03	98.02	99.01	88.04	70.03	71.01	133.06	115.05	116.03	132.05	58.52	44.52	67.03	D																	10
2	104.05	247.08	229.06	230.05	219.08	201.07	202.05	264.10	246.09	247.08	263.09	124.04	110.04	132.55	M	1137.48	1119.47	1120.46	1111.51	1093.49	1094.48	1094.48	1076.47	1077.45	1095.49	1077.48	1078.46	569.24	556.25	547.74	548.24	9
3	110.07	384.13	366.12	367.11	356.14	338.13	339.11	401.16	383.15	384.13	400.15	192.57	178.57	201.08	H	1006.44	988.43	989.42	980.46	962.45	963.44	963.44	945.43	946.41	964.45	946.44	947.42	503.72	490.73	482.22	482.72	8
4	88.04	499.16	481.15	482.13	471.17	453.16	454.14	516.19	498.18	499.16	515.18	250.08	236.08	258.59	D	869.39	851.37	852.36	843.41	825.40	826.38	826.38	808.37	809.35	827.39	809.38	810.36	435.19	422.20	413.69	414.19	7
5	120.08	646.23	628.22	629.20	618.23	600.22	601.21	663.26	645.25	646.23	662.25	323.61	309.62	332.13	F	754.36	736.35	737.33	728.38	710.37	711.35	711.35	693.34	694.33	712.36	694.35	695.33	377.68	364.69	356.18	356.68	6
6	120.08	793.29	775.29	776.27	765.30	747.29	748.28	810.32	792.31	793.29	809.32	397.15	383.15	405.66	F	607.29	589.28	590.26	581.31	563.30	564.28	564.28	546.27	547.26	565.29	547.28	548.26	304.15	291.16	282.64	283.15	5
7	72.08	892.36	874.36	875.34	864.37	846.36	847.34	909.39	891.38	892.36	908.39	446.68	432.69	455.20	V	460.22	442.21	443.19	434.24	416.23	417.22	417.22	399.20	400.19	418.22	400.21	401.20	230.61	217.62	209.11	209.61	4
8	30.03	949.38	931.38	932.36	921.39	903.38	904.37	966.41	948.40	949.38	965.41	475.19	461.20	483.71	G	361.15	343.14	344.13	335.17	317.16	318.15	318.15	300.14	301.12	319.15	301.14	302.13	181.08	168.09	159.57	160.08	3
9	86.10	1062.47	1044.42	1045.44	1034.48	1016.47	1017.45	1079.50	1061.49	1062.47	1078.49	531.74	517.74	540.25	L	304.13	286.12	287.10	278.15	260.14	261.13	261.13	243.11	244.10	262.13	244.12	245.11	152.57	139.58	131.06	131.57	2
10	119.06														M(+15.01)	191.05	173.04	174.02	165.07	147.06	148.04	148.04	130.03	131.01	149.05	131.04	132.02	96.02	83.03	74.52	75.02	1



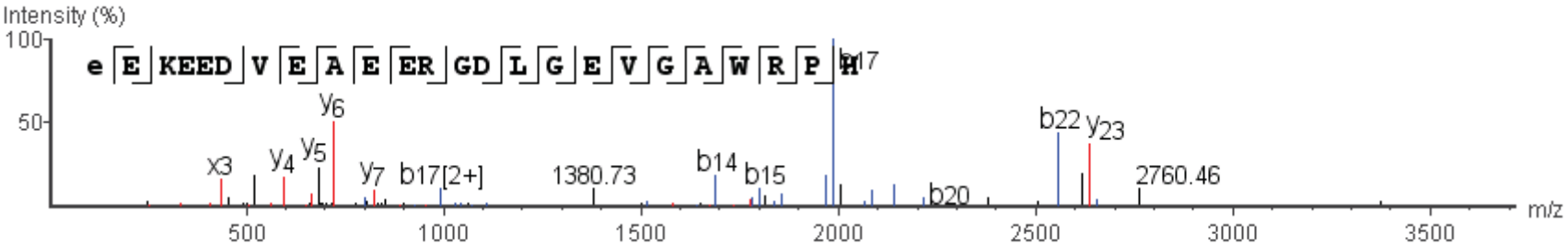
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Tachykinin-3	P55099|TKNK_MOUSE	Neurokinin-B	R.DMHDFFVGLM(-.98).G	70.38	3.3	605.7748	2



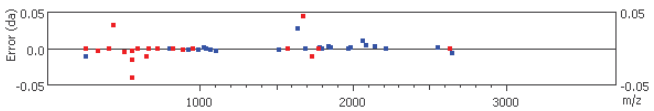
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	88.04	116.03	98.02	99.01	88.04	70.03	71.01	133.06	115.05	116.03	132.05	58.52	44.52	67.03	D																	10
2	104.05	247.08	229.06	230.05	219.08	201.07	202.05	264.10	246.09	247.08	263.09	124.04	110.04	132.55	M	1121.49	1103.48	1104.47	1095.52	1077.50	1078.49	1078.49	1060.48	1061.46	1079.50	1061.49	1062.47	561.25	548.26	539.74	540.25	9
3	110.07	384.13	366.12	367.11	356.14	338.13	339.11	401.16	383.15	384.13	400.15	192.57	178.57	201.08	H	990.45	972.44	973.43	964.47	946.46	947.45	947.45	929.44	930.42	948.46	930.45	931.42	495.73	482.74	474.22	474.73	8
4	88.04	499.16	481.15	482.13	471.17	453.16	454.14	516.19	498.18	499.16	515.18	250.08	236.08	258.59	D	853.40	835.38	836.37	827.42	809.41	810.39	810.39	792.38	793.36	811.40	793.39	794.37	427.20	414.21	405.69	406.20	7
5	120.08	646.23	628.22	629.20	618.23	600.22	601.21	663.26	645.25	646.23	662.25	323.61	309.62	332.13	F	738.37	720.36	721.34	712.39	694.38	695.36	695.36	677.35	678.34	696.37	678.36	679.34	369.68	356.69	348.18	348.68	6
6	120.08	793.30	775.29	776.27	765.30	747.29	748.28	810.32	792.31	793.30	809.32	397.15	383.15	405.66	F	591.30	573.26	574.25	565.32	547.31	548.29	548.29	530.28	531.27	549.30	531.29	532.27	296.15	283.16	274.65	275.15	5
7	72.08	892.37	874.36	875.34	864.37	846.36	847.34	909.39	891.38	892.37	908.39	446.68	432.69	455.20	V	444.23	426.22	427.20	418.25	400.24	401.23	401.23	383.21	384.20	402.23	384.22	385.21	222.62	209.63	201.11	201.62	4
8	30.03	949.39	931.42	932.36	921.39	903.38	904.37	966.41	948.40	949.39	965.41	475.19	461.20	483.71	G	345.16	327.15	328.14	319.18	301.17	302.15	302.15	284.15	285.13	303.16	285.15	286.14	173.08	160.09	151.58	152.08	3
9	86.10	1062.47	1044.46	1045.44	1034.48	1016.47	1017.45	1079.50	1061.49	1062.47	1078.49	531.74	517.74	540.25	L	288.14	270.13	271.11	262.16	244.15	245.14	245.14	227.12	228.11	246.14	228.13	229.12	144.57	131.58	123.07	123.57	2
10	103.07														M(-.98)	175.06	157.05	158.03	149.08	131.07	132.05	132.05	114.04	115.02	133.06	115.05	116.03	88.03	75.04	66.53	67.03	1



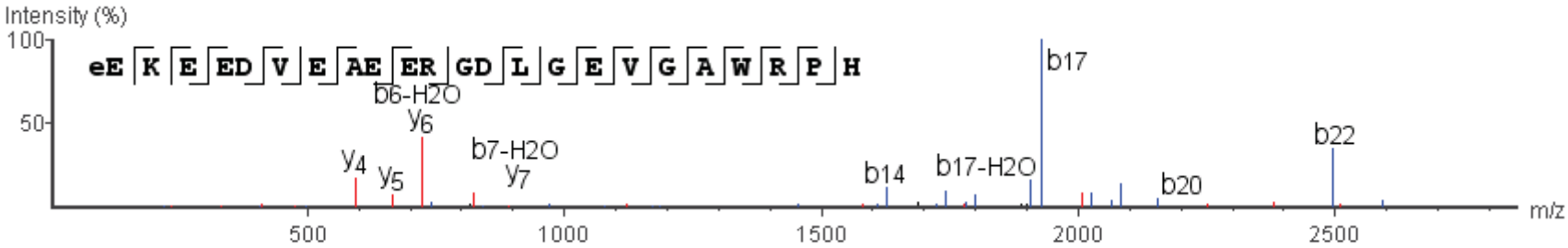
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Prothyroliberin	Q62361|TRH_MOUSE		R.E(+42.01)EKEEDVEAEERGDLGEVGAWRPH.K	80.76	0.1	702.8232	4



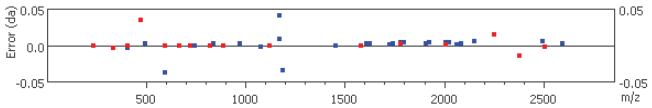
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	144.07	172.06	154.05	155.03	144.07	126.05	127.04	189.09	171.08	172.06	188.08	86.53	72.53	95.04	E(+42.01)																	24
2	102.06	301.10	283.09	284.08	273.11	255.10	256.09	318.13	300.12	301.10	317.12	151.05	137.05	159.56	E	2663.20	2645.19	2646.17	2637.22	2619.21	2620.19	2620.19	2602.18	2603.16	2621.20	2603.19	2604.17	1332.10	1319.11	1310.60	1311.10	23
3	101.11	429.20	411.19	412.17	401.20	383.19	384.18	446.22	428.21	429.20	445.22	215.10	201.10	223.61	K	2534.15	2516.14	2517.13	2508.17	2490.16	2491.15	2491.15	2473.14	2474.12	2492.16	2474.15	2475.13	1267.58	1254.59	1246.07	1246.58	22
4	102.06	558.24	540.23	541.21	530.25	512.23	513.22	575.27	557.26	558.24	574.26	279.62	265.62	288.13	E	2406.06	2388.05	2389.03	2380.08	2362.07	2363.05	2363.05	2345.04	2346.03	2364.06	2346.05	2347.03	1203.53	1190.54	1182.03	1182.53	21
5	102.06	687.28	669.27	670.26	659.29	641.28	642.26	704.31	686.30	687.28	703.30	344.14	330.14	352.66	E	2277.02	2259.01	2259.99	2251.04	2233.03	2234.01	2234.01	2216.00	2216.98	2235.02	2217.01	2217.99	1139.01	1126.02	1117.51	1118.01	20
6	88.04	802.31	784.30	785.28	774.32	756.30	757.29	819.34	801.33	802.31	818.33	401.66	387.66	410.17	D	2147.97	2129.96	2130.95	2121.99	2103.98	2104.97	2104.97	2086.96	2087.94	2105.98	2087.96	2088.95	1074.49	1061.50	1052.98	1053.49	19
7	72.08	901.38	883.37	884.35	873.38	855.37	856.36	918.41	900.39	901.38	917.40	451.19	437.19	459.70	V	2032.95	2014.94	2015.92	2006.97	1988.96	1989.94	1989.94	1971.93	1972.91	1990.95	1972.94	1973.92	1016.97	1003.98	995.47	995.97	18
8	102.06	1030.42	1012.41	1013.39	1002.43	984.42	985.40	1047.45	1029.44	1030.42	1046.44	515.71	501.71	524.22	E	1933.88	1915.87	1916.85	1907.90	1889.89	1890.87	1890.87	1872.86	1873.85	1891.88	1873.87	1874.85	967.44	954.45	945.94	946.44	17
9	44.05	1101.46	1083.45	1084.43	1073.46	1055.45	1056.44	1118.49	1100.47	1101.46	1117.48	551.23	537.23	559.74	A	1804.84	1786.83	1787.81	1778.86	1760.85	1761.83	1761.83	1743.82	1744.80	1762.84	1744.83	1745.81	902.92	889.93	881.41	881.92	16
10	102.06	1230.50	1212.49	1213.47	1202.51	1184.50	1185.48	1247.53	1229.52	1230.50	1246.52	615.75	601.75	624.26	E	1733.81	1715.79	1716.77	1707.82	1689.81	1690.79	1690.79	1672.74	1673.77	1691.80	1673.79	1674.77	867.40	854.41	845.90	846.40	15
11	102.06	1359.54	1341.53	1342.52	1331.55	1313.54	1314.52	1376.57	1358.56	1359.54	1375.56	680.27	666.27	688.79	E	1604.76	1586.75	1587.73	1578.78	1560.77	1561.75	1561.75	1543.74	1544.72	1562.76	1544.75	1545.73	802.88	789.89	781.38	781.88	14
12	129.11	1515.65	1497.63	1498.62	1487.65	1469.64	1470.62	1532.67	1514.66	1515.65	1531.66	758.32	744.32	766.84	R	1475.71	1457.70	1458.69	1449.73	1431.72	1432.71	1432.71	1414.70	1415.68	1433.72	1415.70	1416.69	738.36	725.37	716.85	717.36	13
13	30.03	1572.67	1554.66	1555.64	1544.67	1526.66	1527.64	1589.69	1571.68	1572.67	1588.69	786.83	772.84	795.35	G	1319.61	1301.60	1302.59	1293.63	1275.62	1276.61	1276.61	1258.60	1259.58	1277.61	1259.60	1260.59	660.31	647.32	638.80	639.31	12
14	88.04	1687.69	1669.68	1670.67	1659.70	1641.69	1642.64	1704.72	1686.71	1687.69	1703.71	844.35	830.35	852.86	D	1262.59	1244.58	1245.56	1236.61	1218.60	1219.58	1219.58	1201.57	1202.56	1220.59	1202.58	1203.57	631.80	618.81	610.29	610.80	11
15	86.10	1800.78	1782.76	1783.75	1772.78	1754.77	1755.75	1817.80	1799.79	1800.78	1816.80	900.89	886.89	909.40	L	1147.56	1129.55	1130.54	1121.58	1103.57	1104.56	1104.56	1086.55	1087.53	1105.57	1087.56	1088.54	574.28	561.30	552.78	553.28	10
16	30.03	1857.80	1839.78	1840.77	1829.80	1811.79	1812.78	1874.83	1856.81	1857.80	1873.82	929.40	915.40	937.91	G	1034.48	1016.47	1017.45	1008.50	990.49	991.47	991.47	973.46	974.45	992.48	974.47	975.45	517.74	504.76	496.24	496.74	9
17	102.06	1986.84	1968.83	1969.81	1958.85	1940.84	1941.82	2003.87	1985.86	1986.84	2002.86	993.92	979.92	1002.43	E	977.46	959.45	960.43	951.48	933.47	934.45	934.45	916.44	917.43	935.46	917.45	918.43	489.23	476.24	467.73	468.23	8
18	72.08	2085.90	2067.89	2068.88	2057.91	2039.90	2040.89	2102.94	2084.93	2085.90	2101.93	1043.46	1029.46	1051.97	V	848.42	830.41	831.39	822.44	804.43	805.41	805.41	787.40	788.38	806.42	788.41	789.39	424.71	411.72	403.20	403.71	7
19	30.03	2142.93	2124.92	2125.90	2114.94	2096.93	2097.91	2159.96	2141.95	2142.93	2158.95	1071.97	1057.97	1080.48	G	749.35	731.34	732.32	723.37	705.36	706.34	706.34	688.33	689.31	707.35	689.34	690.32	375.17	362.18	353.67	354.17	6
20	44.05	2213.97	2195.96	2196.94	2185.97	2167.96	2168.95	2231.00	2212.98	2213.97	2229.99	1107.49	1093.49	1116.00	A	692.33	674.32	675.30	666.35	648.34	649.32	649.32	631.31	632.29	650.34	632.32	633.30	346.66	333.68	325.16	325.66	5
21	159.09	2400.05	2382.04	2383.02	2372.05	2354.04	2355.03	2417.07	2399.06	2400.05	2416.07	1200.52	1186.53	1209.04	W	621.29	603.28	604.26	595.31	577.30	578.28	578.28	560.27	561.30	579.29	561.30	562.26	311.14	298.15	289.64	290.15	4
22	129.11	2556.15	2538.14	2539.12	2528.15	2510.14	2511.13	2573.18	2555.16	2556.15	2572.17	1278.57	1264.58	1287.09	R	435.18	417.20	418.18	409.23	391.22	392.20	392.20	374.19	375.18	393.21	375.20	376.18	218.10	205.12	196.60	197.11	3
23	70.07	2653.21	2635.19	2636.17	2625.21	2607.20	2608.18	2670.23	2652.22	2653.21	2669.22	1327.10	1313.10	1335.61	P	279.11	261.10	262.08	253.13	235.12	236.10	236.10	218.09	219.08	237.11	219.10	220.08	140.05	127.06	118.55	119.06	2
24	110.07														H	182.06	164.05	165.03	156.08	138.07	139.05	139.05	121.04	122.02	140.06	122.05	123.03	91.53	78.54	70.02	70.53	1



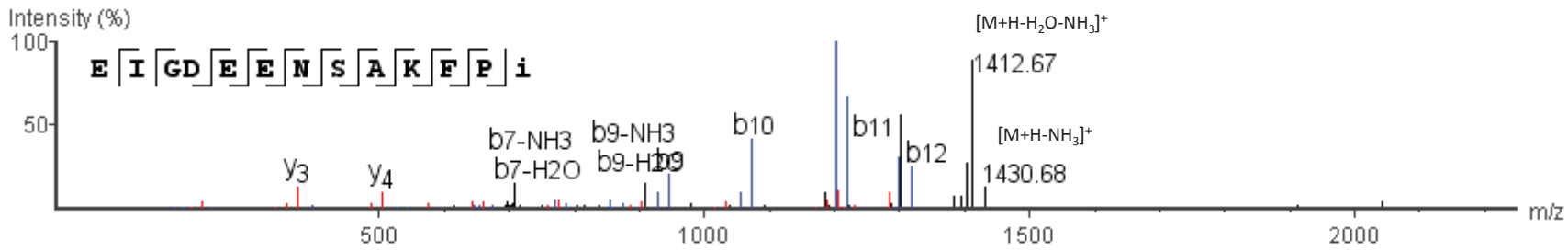
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Prothyroliberin	Q62361|TRH_MOUSE		R.E(-18.01)EKEEDVEAEERGDLGEVGAWRPH.K	119.04	2.1	687.8193	4



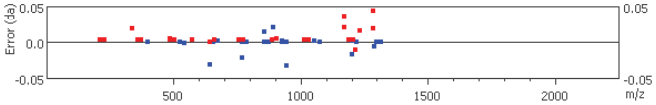
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.05	112.04	94.03	95.01	84.05	66.03	67.02	129.07	111.06	112.04	128.06	56.52	42.52	65.03	E(-18.01)																	24
2	102.06	241.08	223.07	224.06	213.09	195.08	196.06	258.11	240.10	241.08	257.10	121.04	107.04	129.55	E	2663.20	2645.19	2646.17	2637.22	2619.21	2620.19	2620.19	2602.18	2603.16	2621.20	2603.19	2604.17	1332.10	1319.11	1310.60	1311.10	23
3	101.11	369.18	351.17	352.15	341.18	323.17	324.16	386.20	368.19	369.18	385.20	185.09	171.09	193.60	K	2534.15	2516.14	2517.13	2508.18	2490.16	2491.15	2491.15	2473.14	2474.12	2492.16	2474.15	2475.13	1267.58	1254.59	1246.07	1246.58	22
4	102.06	498.22	480.21	481.19	470.23	452.21	453.20	515.25	497.24	498.22	514.24	249.61	235.61	258.12	E	2406.06	2388.05	2389.03	2380.09	2362.07	2363.05	2363.05	2345.04	2346.03	2364.06	2346.05	2347.03	1203.53	1190.54	1182.03	1182.53	21
5	102.06	627.26	609.25	610.24	599.27	581.26	582.24	644.29	626.28	627.26	643.28	314.13	300.13	322.65	E	2277.02	2259.01	2259.99	2251.02	2233.03	2234.01	2234.01	2216.00	2216.98	2235.02	2217.01	2217.99	1139.01	1126.02	1117.51	1118.01	20
6	88.04	742.29	724.28	725.26	714.30	696.28	697.27	759.32	741.31	742.29	758.31	371.65	357.65	380.16	D	2147.97	2129.96	2130.95	2121.99	2103.98	2104.97	2104.97	2086.96	2087.94	2105.98	2087.96	2088.95	1074.49	1061.50	1052.98	1053.49	19
7	72.08	841.35	823.35	824.33	813.36	795.35	796.34	858.39	840.37	841.35	857.38	421.18	407.19	429.69	V	2032.95	2014.94	2015.92	2006.96	1988.96	1989.94	1989.94	1971.93	1972.91	1990.95	1972.94	1973.92	1016.97	1003.98	995.47	995.97	18
8	102.06	970.40	952.39	953.37	942.41	924.40	925.38	987.43	969.42	970.40	986.42	485.70	471.70	494.21	E	1933.88	1915.87	1916.85	1907.90	1889.89	1890.87	1890.87	1872.86	1873.85	1891.88	1873.87	1874.85	967.44	954.45	945.94	946.44	17
9	44.05	1041.44	1023.43	1024.41	1013.44	995.43	996.42	1058.47	1040.45	1041.44	1057.46	521.22	507.22	529.73	A	1804.84	1786.83	1787.81	1778.85	1760.85	1761.83	1761.83	1743.82	1744.80	1762.84	1744.83	1745.81	902.92	889.93	881.41	881.92	16
10	102.06	1170.47	1152.47	1153.45	1142.49	1124.48	1125.46	1187.51	1169.50	1170.47	1186.53	585.74	571.74	594.29	E	1733.80	1715.79	1716.77	1707.82	1689.81	1690.79	1690.79	1672.78	1673.77	1691.80	1673.79	1674.77	867.40	854.41	845.90	846.40	15
11	102.06	1299.52	1281.51	1282.50	1271.53	1253.52	1254.50	1316.55	1298.54	1299.52	1315.54	650.26	636.26	658.78	E	1604.76	1586.75	1587.73	1578.78	1560.77	1561.75	1561.75	1543.74	1544.72	1562.76	1544.75	1545.73	802.88	789.89	781.38	781.88	14
12	129.11	1455.62	1437.61	1438.60	1427.63	1409.62	1410.60	1472.65	1454.64	1455.62	1471.64	728.31	714.31	736.83	R	1475.71	1457.70	1458.69	1449.73	1431.72	1432.71	1432.71	1414.70	1415.68	1433.72	1415.70	1416.69	738.36	725.37	716.85	717.36	13
13	30.03	1512.65	1494.64	1495.62	1484.65	1466.64	1467.62	1529.67	1511.66	1512.65	1528.67	756.82	742.83	765.34	G	1319.61	1301.60	1302.59	1293.63	1275.62	1276.61	1276.61	1258.60	1259.58	1277.61	1259.60	1260.59	660.31	647.32	638.80	639.31	12
14	88.04	1627.67	1609.66	1610.65	1599.68	1581.67	1582.65	1644.70	1626.69	1627.67	1643.69	814.34	800.34	822.85	D	1262.59	1244.58	1245.56	1236.61	1218.60	1219.58	1219.58	1201.57	1202.56	1220.59	1202.58	1203.57	631.80	618.81	610.29	610.80	11
15	86.10	1740.75	1722.74	1723.73	1712.76	1694.75	1695.73	1757.78	1739.77	1740.75	1756.78	870.88	856.88	879.39	L	1147.56	1129.55	1130.54	1121.58	1103.57	1104.56	1104.56	1086.55	1087.53	1105.57	1087.56	1088.54	574.28	561.29	552.78	553.28	10
16	30.03	1797.77	1779.76	1780.75	1769.78	1751.77	1752.76	1814.81	1796.79	1797.77	1813.80	899.39	885.39	907.90	G	1034.48	1016.47	1017.45	1008.50	990.49	991.47	991.47	973.46	974.45	992.48	974.47	975.45	517.74	504.75	496.24	496.74	9
17	102.06	1926.82	1908.81	1909.79	1898.83	1880.82	1881.80	1943.85	1925.84	1926.82	1942.84	963.91	949.91	972.42	E	977.46	959.45	960.43	951.48	933.47	934.45	934.45	916.44	917.43	935.46	917.45	918.43	489.23	476.20	467.73	468.23	8
18	72.08	2025.88	2007.87	2008.86	1997.89	1979.88	1980.87	2042.92	2024.91	2025.88	2041.91	1013.44	999.45	1021.96	V	848.42	830.41	831.39	822.44	804.43	805.41	805.41	787.40	788.38	806.42	788.41	789.39	424.71	411.72	403.20	403.71	7
19	30.03	2082.91	2064.90	2065.88	2054.92	2036.91	2037.89	2099.94	2081.93	2082.91	2098.93	1041.96	1027.96	1050.47	G	749.35	731.34	732.32	723.37	705.36	706.34	706.34	688.33	689.31	707.35	689.34	690.32	375.17	362.18	353.67	354.17	6
20	44.05	2153.94	2135.94	2136.92	2125.95	2107.94	2108.93	2170.98	2152.96	2153.94	2169.97	1077.48	1063.48	1085.99	A	692.33	674.32	675.30	666.35	648.34	649.32	649.32	631.31	632.29	650.33	632.32	633.30	346.66	333.68	325.16	325.66	5
21	159.09	2340.03	2322.02	2323.00	2312.03	2294.02	2295.01	2357.05	2339.04	2340.03	2356.05	1170.47	1156.52	1179.03	W	621.29	603.28	604.26	595.31	577.30	578.28	578.28	560.27	561.26	579.29	561.28	562.26	311.14	298.15	289.64	290.15	4
22	129.11	2496.12	2478.12	2479.10	2468.13	2450.12	2451.11	2513.16	2495.14	2496.12	2512.15	1248.56	1234.57	1257.08	R	435.21	417.20	418.18	409.23	391.22	392.20	392.20	374.19	375.18	393.21	375.20	376.18	218.10	205.12	196.60	197.11	3
23	70.07	2593.18	2575.17	2576.15	2565.19	2547.18	2548.16	2610.21	2592.20	2593.18	2609.20	1297.09	1283.09	1305.60	P	279.11	261.10	262.08	253.13	235.12	236.10	236.10	218.09	219.08	237.11	219.10	220.08	140.05	127.06	118.55	119.06	2
24	110.07														H	182.06	164.05	165.03	156.08	138.07	139.05	139.05	121.04	122.02	140.06	122.05	123.03	91.53	78.54	70.02	70.53	1



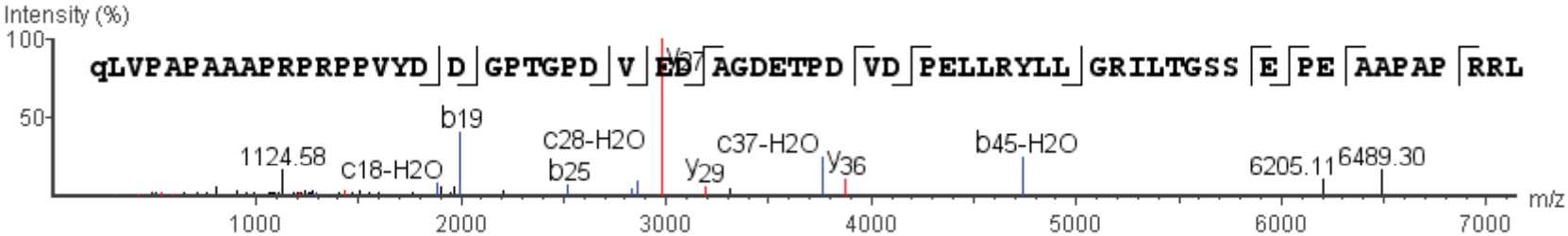
Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
Pro-MCH	P56942|MCH_MOUSE	Neuropeptide-glutamic acid-isoleucine	R.EIGDEENSAKFPI(-.98).G	97.89	17	724.358	2



#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	102.06	130.05	112.04	113.02	102.06	84.04	85.03	147.08	129.07	130.05	146.07	65.53	51.53	74.04	E																	13
2	86.10	243.13	225.12	226.11	215.14	197.13	198.11	260.16	242.15	243.13	259.15	122.07	108.07	130.58	I	1344.65	1326.64	1327.62	1318.67	1300.66	1301.64	1301.64	1283.61	1284.57	1302.65	1284.64	1285.62	672.82	659.83	651.32	651.82	12
3	30.03	300.16	282.15	283.13	272.16	254.15	255.13	317.18	299.17	300.16	316.18	150.58	136.58	159.09	G	1231.55	1213.55	1214.55	1205.58	1187.57	1188.55	1188.55	1170.53	1171.49	1189.56	1171.55	1172.54	616.28	603.29	594.78	595.28	11
4	88.04	415.18	397.17	398.16	387.19	369.18	370.16	432.21	414.20	415.18	431.20	208.09	194.09	216.60	D	1174.54	1156.53	1157.51	1148.56	1130.55	1131.54	1131.54	1113.52	1114.51	1132.54	1114.53	1115.52	587.77	574.78	566.27	566.77	10
5	102.06	544.23	526.22	527.20	516.23	498.22	499.20	561.25	543.24	544.23	560.24	272.61	258.62	281.13	E	1059.51	1041.50	1042.49	1033.53	1015.52	1016.50	1016.50	998.50	999.48	1017.52	999.51	1000.49	530.26	517.27	508.75	509.26	9
6	102.06	673.27	655.26	656.24	645.30	627.26	628.25	690.30	672.28	673.27	689.29	337.13	323.14	345.65	E	930.47	912.46	913.45	904.49	886.48	887.46	887.46	869.46	870.44	888.47	870.46	871.45	465.74	452.75	444.23	444.74	8
7	87.06	787.31	769.30	770.31	759.32	741.31	742.29	804.34	786.33	787.31	803.33	394.16	380.16	402.67	N	801.43	783.42	784.40	775.45	757.44	758.42	758.42	740.41	741.40	759.43	741.42	742.40	401.21	388.23	379.71	380.22	7
8	60.04	874.34	856.33	857.30	846.35	828.34	829.32	891.35	873.36	874.34	890.36	437.67	423.67	446.19	S	687.39	669.38	670.36	661.40	643.40	644.38	644.38	626.37	627.35	645.39	627.38	628.36	344.19	331.20	322.69	323.19	6
9	44.05	945.38	927.37	928.35	917.39	899.37	900.36	962.41	944.43	945.38	961.40	473.19	459.19	481.70	A	600.35	582.34	583.33	574.37	556.36	557.35	557.35	539.34	540.32	558.36	540.35	541.33	300.68	287.69	279.17	279.68	5
10	101.11	1073.47	1055.46	1056.45	1045.48	1027.47	1028.45	1090.50	1072.49	1073.47	1089.49	537.24	523.24	545.75	K	529.32	511.31	512.29	503.33	485.33	486.31	486.31	468.30	469.28	487.31	469.31	470.29	265.16	252.17	243.66	244.16	4
11	120.08	1220.54	1202.53	1203.53	1192.55	1174.54	1175.52	1237.57	1219.56	1220.54	1236.56	610.77	596.77	619.29	F	401.22	383.21	384.20	375.24	357.23	358.21	358.21	340.19	341.19	359.22	341.21	342.20	201.11	188.12	179.61	180.11	3
12	70.07	1317.60	1299.58	1300.57	1289.61	1271.59	1272.57	1334.62	1316.61	1317.60	1333.62	659.30	645.30	667.81	P	254.15	236.14	237.13	228.17	210.16	211.14	211.14	193.14	194.12	212.16	194.14	195.13	127.58	114.59	106.07	106.58	2
13	85.12														I(-.98)	157.10	139.09	140.07	131.12	113.11	114.09	114.09	96.08	97.07	115.10	97.09	98.08	79.05	66.06	57.55	58.05	1

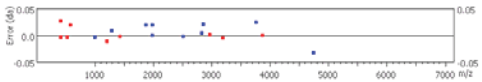


Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
ProSAAS	Q9QXV0|PCSK1_MOUSE		A.Q(-17.03)LVPAPAAAPRPRPPVYDDGPTGPDVEDAGDETPDVDPELLRYLLGRILTGSSEPEAAPAPRRL.R*	66.93	6.4	1123.5846	6

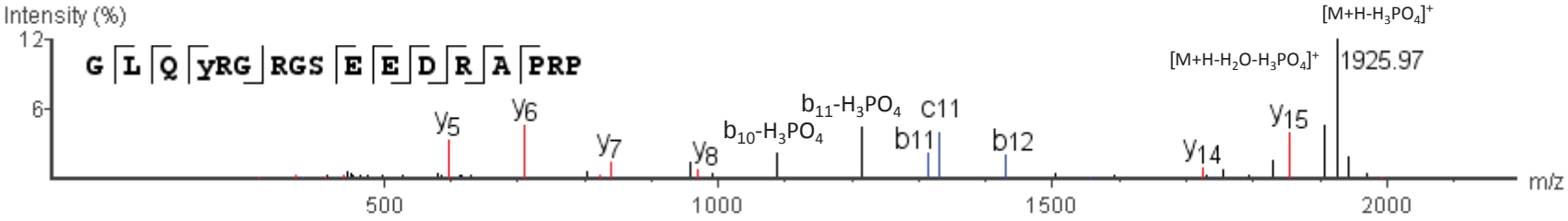


#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)
2	86.10	225.12	207.11	208.09	197.13	179.11	180.10	242.15	224.14	225.12	241.14	113.06	99.06	121.57	L
3	72.08	324.19	306.18	307.16	296.19	278.18	279.17	341.22	323.21	324.19	340.21	162.59	148.60	171.11	V
4	70.07	421.24	403.23	404.21	393.25	375.24	376.22	438.27	420.26	421.24	437.26	211.12	197.12	219.63	P
5	44.05	492.28	474.27	475.25	464.28	446.27	447.26	509.31	491.30	492.28	508.30	246.64	232.64	255.15	A
6	70.07	589.33	571.32	572.30	561.34	543.33	544.31	606.36	588.35	589.33	605.35	295.17	281.17	303.68	P
7	44.05	660.37	642.36	643.34	632.37	614.36	615.35	677.40	659.39	660.37	676.39	330.68	316.69	339.20	A
8	44.05	731.41	713.40	714.38	703.41	685.40	686.38	748.43	730.42	731.41	747.42	366.20	352.21	374.72	A
9	44.05	802.44	784.43	785.42	774.45	756.44	757.42	819.47	801.46	802.44	818.46	401.72	387.72	410.23	A
10	70.07	899.50	881.49	882.47	871.50	853.49	854.47	916.52	898.51	899.50	915.51	450.25	436.25	458.76	P
11	129.11	1055.60	1037.59	1038.57	1027.60	1009.59	1010.57	1072.62	1054.61	1055.60	1071.62	528.30	514.30	536.81	R
12	70.07	1152.65	1134.64	1135.62	1124.65	1106.64	1107.63	1169.68	1151.67	1152.65	1168.67	576.82	562.83	585.34	P
13	129.11	1308.75	1290.74	1291.72	1280.76	1262.74	1263.73	1325.78	1307.77	1308.75	1324.77	654.80	640.80	663.39	R
14	70.07	1405.80	1387.79	1388.78	1377.81	1359.80	1360.78	1422.83	1404.82	1405.80	1421.82	703.40	689.40	711.92	P
15	70.07	1502.86	1484.85	1485.83	1474.86	1456.85	1457.83	1519.88	1501.87	1502.86	1518.88	751.93	737.93	760.44	P
16	72.08	1601.92	1583.91	1584.90	1573.93	1555.92	1556.90	1618.95	1600.94	1601.92	1617.94	801.46	787.46	809.98	V
17	136.08	1764.99	1746.98	1747.96	1736.99	1718.98	1719.97	1782.01	1764.00	1764.99	1781.01	882.99	869.00	891.51	Y
18	88.04	1880.01	1862.00	1862.99	1852.02	1834.01	1834.99	1897.04	1879.01	1880.01	1896.03	940.51	926.51	949.02	D
19	88.04	1995.04	1977.03	1978.01	1967.05	1949.04	1950.02	2012.07	1994.04	1995.04	2011.06	998.02	984.02	1006.53	D
20	30.03	2052.06	2034.05	2035.04	2024.07	2006.06	2007.04	2069.09	2051.08	2052.06	2068.08	1026.53	1012.53	1035.05	G
21	70.07	2149.12	2131.11	2132.09	2121.12	2103.11	2104.09	2166.14	2148.13	2149.12	2165.14	1075.06	1061.06	1083.57	P
22	74.06	2250.16	2232.15	2233.14	2222.17	2204.16	2205.14	2267.19	2249.18	2250.16	2266.18	1125.58	1111.58	1134.10	T
23	30.03	2307.19	2289.17	2290.16	2279.19	2261.18	2262.16	2324.21	2306.20	2307.19	2323.20	1154.09	1140.10	1162.61	G
24	70.07	2404.24	2386.23	2387.21	2376.24	2358.23	2359.22	2421.26	2403.25	2404.24	2420.26	1202.62	1188.62	1211.13	P
25	88.04	2519.27	2501.25	2502.24	2491.27	2473.26	2474.24	2536.29	2518.28	2519.27	2535.28	1260.13	1246.13	1268.65	D
26	72.08	2618.33	2600.32	2601.31	2590.34	2572.33	2573.31	2635.36	2617.35	2618.33	2634.35	1309.67	1295.66	1318.18	V
27	102.06	2747.38	2729.37	2730.35	2719.38	2701.37	2702.35	2764.40	2746.39	2747.38	2763.40	1374.19	1360.19	1382.70	E
28	88.04	2862.40	2844.39	2845.38	2834.41	2816.40	2817.38	2879.43	2861.40	2862.40	2878.42	1431.70	1417.70	1440.21	D
29	44.05	2933.44	2915.43	2916.41	2905.44	2887.43	2888.42	2950.47	2932.46	2933.44	2949.46	1467.22	1453.22	1475.73	A
30	30.03	2990.46	2972.45	2973.43	2962.47	2944.46	2945.44	3007.49	2989.48	2990.46	3006.48	1495.73	1481.73	1504.24	G
31	88.04	3105.49	3087.48	3088.46	3077.49	3059.48	3060.47	3122.52	3104.50	3105.49	3121.51	1553.24	1539.25	1561.76	D
32	102.06	3234.53	3216.52	3217.50	3206.54	3188.53	3189.51	3251.56	3233.55	3234.53	3250.55	1617.77	1603.77	1626.28	E
33	74.06	3335.58	3317.57	3318.55	3307.58	3289.57	3290.56	3352.61	3334.59	3335.58	3351.60	1668.29	1654.29	1676.80	T
34	70.07	3432.63	3414.62	3415.60	3404.64	3386.63	3387.61	3449.66	3431.65	3432.63	3448.65	1716.82	1702.82	1725.33	P
35	88.04	3547.66	3529.65	3530.63	3519.66	3501.65	3502.64	3564.69	3546.67	3547.66	3563.68	1774.33	1760.33	1782.84	D
36	72.08	3646.73	3628.72	3629.70	3618.73	3600.72	3601.70	3663.75	3645.74	3646.73	3662.75	1823.86	1809.87	1832.38	V
37	88.04	3761.75	3743.74	3744.73	3733.76	3715.75	3716.73	3778.78	3760.74	3761.75	3777.77	1881.38	1867.38	1889.89	D
38	70.07	3858.81	3840.80	3841.78	3830.81	3812.80	3813.78	3875.83	3857.82	3858.81	3874.83	1929.90	1915.91	1938.42	P
39	102.06	3987.85	3969.84	3970.82	3959.85	3941.84	3942.83	4004.88	3986.87	3987.85	4003.87	1994.42	1980.43	2002.94	E
40	86.10	4100.93	4082.92	4083.91	4072.94	4054.93	4055.91	4117.96	4099.95	4100.93	4116.95	2050.97	2036.97	2059.48	L
41	86.10	4214.02	4196.01	4196.99	4186.02	4168.01	4169.00	4231.04	4213.03	4214.02	4230.04	2107.51	2093.51	2116.02	L
42	129.11	4370.12	4352.11	4353.09	4342.12	4324.11	4325.10	4387.15	4369.13	4370.12	4386.14	2185.56	2171.56	2194.07	R
43	136.08	4533.10	4515.17	4516.15	4505.19	4487.18	4488.16	4550.21	4532.20	4533.18	4549.20	2267.09	2253.09	2275.60	Y
44	86.10	4646.27	4628.25	4629.24	4618.27	4600.26	4601.24	4663.29	4645.28	4646.27	4662.28	2323.63	2309.64	2332.15	L
45	86.10	4759.35	4741.37	4742.32	4731.35	4713.34	4714.33	4776.38	4758.37	4759.35	4775.37	2380.17	2366.18	2388.69	L
46	30.03	4816.37	4798.36	4799.34	4788.38	4770.37	4771.35	4833.40	4815.39	4816.37	4832.39	2408.69	2394.69	2417.20	G
47	129.11	4972.47	4954.46	4955.45	4944.48	4926.47	4927.45	4989.50	4971.49	4972.47	4988.49	2486.74	2472.74	2495.25	R
48	86.10	5085.56	5067.55	5068.53	5057.56	5039.55	5040.53	5102.58	5084.57	5085.56	5101.58	2543.28	2529.28	2551.79	I
49	86.10	5198.64	5180.63	5181.61	5170.65	5152.63	5153.62	5215.67	5197.66	5198.64	5214.66	2599.82	2585.82	2608.33	L
50	74.06	5299.69	5281.68	5282.66	5271.69	5253.68	5254.67	5316.71	5298.70	5299.69	5315.71	2650.34	2636.35	2658.86	T
51	30.03	5356.71	5338.70	5339.68	5328.71	5310.70	5311.69	5373.74	5355.73	5356.71	5372.73	2678.85	2664.86	2687.37	G
52	60.04	5443.74	5425.73	5426.71	5415.75	5397.74	5398.72	5460.77	5442.76	5443.74	5459.76	2722.37	2708.37	2730.88	S
53	60.04	5530.77	5512.76	5513.75	5502.78	5484.77	5485.75	5547.80	5529.79	5530.77	5546.79	2765.89	2751.89	2774.40	S
54	102.06	5659.82	5641.81	5642.79	5631.82	5613.81	5614.79	5676.84	5658.83	5659.82	5675.83	2830.40	2816.41	2838.92	E
55	70.07	5756.87	5738.86	5739.84	5728.87	5710.86	5711.85	5773.90	5755.89	5756.87	5772.89	2878.93	2864.94	2887.45	P
56	102.06	5885.91	5867.90	5868.88	5857.92	5839.91	5840.89	5902.94	5884.93	5885.91	5901.93	2943.46	2929.46	2951.97	E
57	44.05	5956.95	5938.94	5939.92	5928.95	5910.94	5911.93	5973.98	5955.96	5956.95	5972.97	2978.97	2964.98	2987.49	A
58	44.05	6027.99	6009.97	6010.96	5999.99	5981.98	5982.96	6045.01	6027.00	6027.99	6044.00	3014.49	3000.50	3023.01	A
59	70.07	6125.04	6107.03	6108.01	6097.04	6079.03	6080.02	6142.06	6124.05	6125.04	6141.06	3063.02	3049.02	3071.53	P
60	44.05	6196.08	6178.06	6179.05	6168.08	6150.07	6151.05	6213.10	6195.09	6196.08	6212.09	3098.54	3084.54	3107.05	A
61	70.07	6293.13	6275.12	6276.10	6265.13	6247.12	6248.11	6310.16	6292.15	6293.13	6309.15	3147.06	3133.07	3155.58	P
62	129.11	6449.23	6431.22	6432.20	6421.23	6403.22	6404.21	6466.26	6448.25	6449.23	6465.25	3225.11	3211.12	3233.63	R
63	129.11	6605.33	6587.32	6588.30	6577.34	6559.33	6560.31	6622.36	6604.35	6605.33	6621.35	3303.17	3289.17	3311.68	R
64	86.10														L

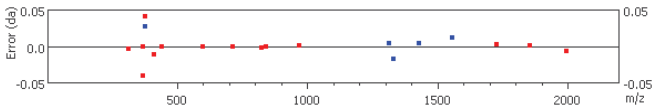
#	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1																	64
2	6651.38	6633.36	6634.35	6625.40	6607.39	6608.37	6608.37	6590.36	6591.34	6609.38	6591.37	6592.35	3326.19	3313.20	3304.68	3305.19	63
3	6538.29	6520.28	6521.26	6512.31	6494.30	6495.28	6495.28	6477.27	6478.26	6496.29	6478.28	6479.27	3269.65	3256.66	3248.14	3248.65	62
4	6439.22	6421.21	6422.20	6413.24	6395.23	6396.22	6396.22	6378.21	6379.19	6397.22	6379.21	6380.20	3220.11	3207.12	3198.61	3199.11	61
5	6342.17	6324.16	6325.14	6316.19	6298.18	6299.16	6299.16	6281.15	6282.14	6300.17	6282.16	6283.14	3171.58	3158.60	3150.08	3150.59	60
6	6271.13	6253.12	6254.11	6245.15	6227.14	6228.13	6228.13	6210.12	6211.10	6229.13	6211.12	6212.11	3136.07	3123.08	3114.56	3115.07	59
7	6174.08	6156.07	6157.05	6148.10	6130.09	6131.07	6131.07	6113.06	6114.05	6132.08	6114.07	6115.05	3087.54	3074.55	3066.04	3066.54	58
8	6103.04	6085.03	6086.02	6077.06	6059.05	6060.04	6060.04	6042.03	6043.01	6061.04	6043.03	6044.02	3052.02	3039.03	3030.52	3031.02	57
9	6032.01	6014.00	6014.98	6006.03	5988.02	5989.00	5989.00	5970.99	5971.97	5990.01	5972.00	5972.98	3016.50	3003.51	2995.00	2995.50	56
10	5960.97	5942.96	5943.94	5934.99	5916.98	5917.96	5917.96	5899.95	5900.94	5918.97	5900.96	5901.94	2980.98	2967.99	2959.48	2959.99	55
11	5863.92	5845.91	5846.89	5837.94	5819.93	5820.91	5820.91	5802.90	5803.88	5821.92	5803.91	5804.89	2932.46	2919.47	2910.95	2911.46	54
12	5707.81	5689.80	5690.79	5681.84	5663.83	5664.81	5664.81	5646.80	5647.78	5665.82	5647.81	5648.79	2854.41	2841.42	2832.90	2833.41	53
13	5610.76	5592.75	5593.74	5584.78	5566.77	5567.76	5567.76	5549.75	5550.73	5568.76	5550.75	5551.74	2805.88	2792.89	2784.38	2784.88	52
14	5454.66	5436.65	5437.63	5428.68	5410.67	5411.65	5411.65	5393.64	5394.63	5412.66	5394.65	5395.64	2727.83	2714.84	2706.33	2706.83	51
15	5357.61	5339.60	5340.58	5331.63	5313.62	5314.60	5314.60	5296.59	5297.58	5315.61	5297.60	5298.58	2679.30	2666.31	2657.80	2658.30	50
16	5260.56	5242.55	5243.53	5234.58	5216.57	5217.55	5217.55	5199.54	5200.52	5218.56	5200.55	5201.53	2630.78	2617.79	2609.27	2609.78	49
17	5161.49	5143.48	5144.46	5135.51	5117.50	5118.48	5118.48	5100.47	5101.45	5119.49	5101.48	5102.46	2581.24	2568.25	2559.74	2560.24	48
18	4998.42	4980.41	4981.40	4972.44	4954.43	4955.42	4955.42	4937.41	4938.39	4956.43	4938.42	4939.40	2499.71	2486.72	2478.21	2478.71	47
19	4883.40	4865.39	4866.37	4857.42	4839.41	4840.39	4840.39	4822.38	4823.36	4841.40	4823.39	4824.37	2442.20	2429.21	2420.70	2421.20	46
20	4768.37	4750.36	4751.34	4742.39	4724.38	4725.36	4725.36	4707.35	4708.34	4726.37	4708.36	4709.34	2384.68	2371.70	2363.18	2363.69	45
21	4711.35	4693.34	4694.32	4685.37	4667.36	4668.34	4668.34	4650.33	4651.32	4669.35	4651.34	4652.32	2356.17	2343.18	2334.67	2335.18	44
22	4614.30	4596.29	4597.27	4588.32	4570.31	4571.29	4571.29	4553.28	4554.26	4572.30	4554.29	4555.27	2307.65	2294.66	2286.14	2286.65	43
23	4513.25	4495.24	4496.22	4487.27	4469.26	4470.24	4470.24	4452.23	4453.21	4471.25	4453.24	4454.22	2257.12	2244.13	2235.62	2236.12	42
24	4456.23	4438.22	4439.20	4430.25	4412.24	4413.22	4413.22	4395.21	4396.19	4414.23	4396.22	4397.20	2228.61	2215.62	2207.11	2207.61	41
25	4359.17	4341.16	4342.15	4333.19	4315.18	4316.17	4316.17	4298.16	4299.14	4317.18	4299.17	4300.15	2180.09	2167.10	2158.58	2159.09	40
26	4244.15	4226.14	4227.12	4218.17	4200.16	4201.14	4201.14	4183.13	4184.11	4202.15	4184.14	4185.12	2122.57	2109.58	2101.07	2101.57	39
27	4145.08	4127.07	4128.05	4119.10	4101.09	4102.07	4102.07	4084.06	4085.05	4103.08	4085.07	4086.05	2073.04	2060.05	2051.54	2052.04	38
28	4016.04	3998.03	3999.01	3990.06	3972.05	3973.03	3973.03	3955.02	3956.00	3974.04	3956.03	3957.01	2008.52	1995.53	1987.01	1987.52	37
29	3901.01	3883.00	3883.98	3875.03	3857.02	3858.00	3858.00	3839.99	3840.98	3859.01	3841.00	3841.98	1951.00	1938.01	1929.50	1930.01	36
30	3829.97	3811.96	3812.94	3803.99	3785.98	3786.97	3786.97	3768.95	3769.94	3787.97	3769.96	3770.95	1915.49	1902.50	1893.98	1894.49	35
31	3772.95	3754.94	3755.92	3746.97	3728.96	3729.94	3729.94	3711.93	3712.92	3730.95	3712.94	3713.92	1886.98	1873.99	1865.47	1865.98	34
32	3657.92	3639.91	3640.90	3631.94	3613.93	3614.92	3614.92	3596.91	3597.89	3615.93	3597.91	3598.90	1829.46	1816.47	1807.96	1808.46	33
33	3528.88	3510.87	3511.85	3502.90	3484.89	3485.87	3485.87	3467.86	3468.85	3486.88	3468.87	3469.86	1764.94	1751.95	1743.44	1743.94	32
34	3427.83	3409.82	3410.81	3401.85	3383.84	3384.83	3384.83	3366.82	3367.80	3385.83	3367.82	3368.81	1714.42	1701.43	1692.91	1693.42	31
35	3330.78	3312.77	3313.75	3304.80	3286.79	3287.77	3287.77	3269.76	3270.75	3288.78	3270.77	3271.75	1665.89	1652.90	1644.39	1644.89	30
36	3215.75	3197.74	3198.73	3189.76	3171.76	3172.75	3172.75	3154.74	3155.72	3173.76	3155.74	3156.73	1608.38	1595.39	1586.87	1587.38	29
37	3116.69	3098.67	3099.66	3090.71	3072.70	3073.68	3073.68	3055.67	3056.65	3074.69	3056.68	3057.66	1558.84	1545.85	1537.34	1537.84	28
38	3001.66	2983.65	2984.63	2975.68	2957.67	2958.65	2958.65	2940.64	2941.62	2959.66	2941.65	2942.63	1501.33	1488.34	1479.83	1480.33	27
39	2904.61	2886.59	2887.58	2878.63	2860.62	2861.60	2861.60	2843.59	2844.57	2862.61	2844.60	2845.58	1452.80	1439.81	1431.30	1431.81	26
40	2775.56	2757.55	2758.54	2749.58	2731.57	2732.56	2732.56	2714.55	2715.53	2733.56	2715.55	2716.54	1388.28	1375.29	1366.78	1367.28	25
41	2662.48	2644.47	2645.45	2636.50	2618.49	2619.47	2619.47	2601.46	2602.45	2620.48	2602.47	2603.45	1331.74	1318.75	1310.24	1310.74	24
42	2549.39	2531.38	2532.37	2523.42	2505.40	2506.39	2506.39	2488.38	2489.36	2507.40	2489.39	2490.37	1275.20	1262.21	1253.69	1254.20	23
43	2393.29	2375.28	2376.27	2367.31	2349.30	2350.29	2350.29	2332.28	2333.26	2351.30	2333.28	2334.27	1197.15	1184.16	1175.64	1176.15	22
44	2230.23	2212.22	2213.20	2204.25	2186.24	2187.22	2187.22	2169.21	2170.20	2188.23	2170.22	2171.20	1115.62	1102.63	1094.11	1094.62	21
45	2117.15	2099.14	2100.12	2091.17	2073.16	2074.14	2074.14	2056.13	2057.11	2075.15	2057.14	2058.12	1059.07	1046.08	1037.57	1038.07	20
46	2004.06	1986.05	1987.04	1978.08	1960.07	1961.06	1961.06	1943.05	1944.03	1962.06	1944.05	1945.04	1002.53	989.54	981.03	981.53	19
47	1947.04	1929.03	1930.01	1921.06	1903.05	1904.03	1904.03	1886.02	1887.01	1905.04	1887.03	1888.02	974.02	961.03	952.52	953.02	18
48	1790.94	1772.93	1773.91	1764.96	1746.95	1747.93	1747.93	1729.92	1730.91	1748.94	1730.93	1731.91	895.97	882.98	874.47	874.97	17
49	1677.86	1659.84	1660.83	1651.88	1633.87	1634.85	1634.85	1616.84	1617.82	1635.86	1617.85	1618.83	839.43	826.44	817.92	818.43	16
50	1564.77	1546.76	1547.74	1538.79	1520.78	1521.77	1521.77	1503.75	1504.74	1522.77	1504.76	1505.75	782.09	769.90	761.39	761.89	15
51	1463.72	1445.71	1446.70	1437.74	1419.73	1420.72	1420.72	1402.71	1403.69	1421.73	1403.71	1404.70	732.36	719.37	710.86	711.36	14
52	1406.70	1388.69	1389.68	1380.72	1362.71	1363.70	1363.70	1345.69	1346.67	1364.70	1346.69	1347.68	703.85	690.86	682.35	682.85	13
53	1319.67	1301.66	1302.64	1293.69	1275.68	1276.66	1276.66	1258.65	1259.64	1277.67	1259.66	1260.64	660.34	647.35	638.83	639.34	12
54	1232.64	1214.63	1215.62	1206.66	1188.65	1189.63	1189.63	1171.62	1172.60	1190.64	1172.63	1173.61	616.82	603.83	595.29	595.82	11
55	1103.60	1085.59	1086.57	1077.62	1059.61	1060.59	1060.59	1042.58	1043.56	1061.60	1043.59	1044.57	552.30	539.31	530.79	531.30	10
56	1006.54	988.53	989.52	980.56	962.55	963.54	963.54	945.53	946.51	964.54	946.53	947.52	503.77	490.78	482.27	482.77	9
57	877.50	859.49	860.47	851.52	833.51	834.49	834.49	816.48	817.47	835.50	817.49	818.47	439.25	426.26	417.75	418.25	8
58	806.46	788.45	789.44	780.48	762.47	763.46	763.46	745.45	746.43	764.46	746.45	747.44	403.73	390.74	382.23	382.73	7
59	735.43	717.42	718.40	709.45	691.44	692.42	692.42	674.41	675.39	693.43	675.42	676.40	368.21	355.22	346.71	347.21	6
60	638.37	620.36	621.35	612.39	594.38	595.37	595.37	577.36	578.34	596.37	578.36	579.35	319.69	306.70	298.18	298.69	5
61	567.34	549.33	550.31	541.36	523.35	524.33	524.33	506.32	507.30	525.34	507.33	508.31	284.17	271.18	262.66	263.17	4
62	470.28	452.27	453.26	444.30	426.26	427.28	427.28	409.27	410.25	428.28	410.27	411.26	235.64	222.65	214.14	214.64	3
63	314.18	296.17	297.16	288.20	270.19	271.18	271.18	253.17	254.15	272.18	254.17	255.16	157.59	144.60	136.09	136.59	2
64	158.08	140.07	141.05	132.10	114.09	115.07	115.07	97.06	98.05	116.08	98.07	99.06	79.54	66.55	58.04	58.54	1



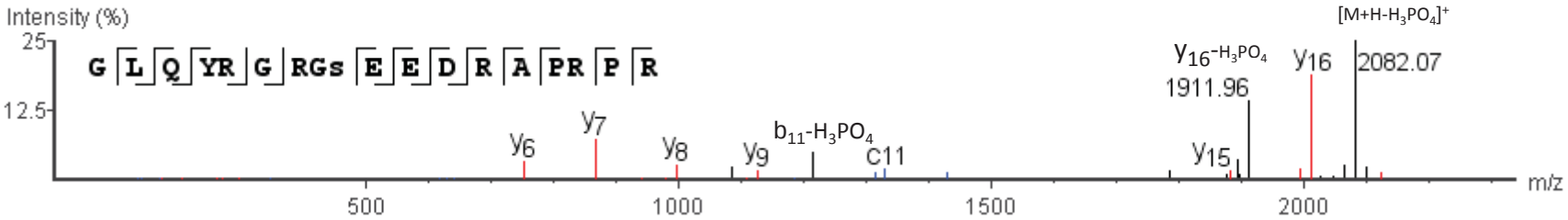
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
secretogranin-1	P16014|SCG1_MOUSE		R.GLQYRGRGS(+79.97)EEDRAPRP.R	63.75	3.7	506.7437	4



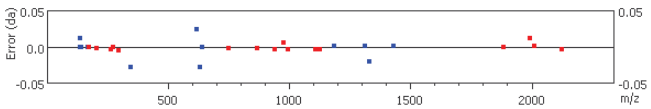
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	30.03	58.03	40.02	41.00	30.03	12.02	13.01	75.06	57.05	58.03	74.05	29.51	15.52	38.03	G																	17
2	86.10	171.11	153.10	154.09	143.12	125.11	126.09	188.14	170.13	171.11	187.13	86.06	72.06	94.57	L	1992.91	1974.90	1975.88	1966.93	1948.92	1949.90	1949.90	1931.89	1932.87	1950.91	1932.90	1933.88	996.95	983.96	975.45	975.95	16
3	101.07	299.17	281.16	282.14	271.18	253.17	254.15	316.20	298.19	299.17	315.19	150.09	136.09	158.60	Q	1879.82	1861.81	1862.80	1853.84	1835.83	1836.82	1836.82	1818.81	1819.79	1837.82	1819.81	1820.80	940.41	927.42	918.91	919.41	15
4	216.05	542.21	524.19	525.18	514.21	496.20	497.18	559.23	541.22	542.21	558.22	271.60	257.61	280.12	Y(+79.97)	1751.76	1733.75	1734.74	1725.78	1707.77	1708.76	1708.76	1690.75	1691.73	1709.77	1691.76	1692.74	876.38	863.39	854.88	855.38	14
5	129.11	698.31	680.30	681.28	670.31	652.30	653.28	715.33	697.32	698.31	714.33	349.65	335.66	358.17	R	1508.73	1490.72	1491.70	1482.75	1464.74	1465.72	1465.72	1447.71	1448.70	1466.73	1448.72	1449.71	754.87	741.88	733.36	733.87	13
6	30.03	755.33	737.32	738.30	727.33	709.32	710.31	772.35	754.34	755.33	771.35	378.13	364.17	386.68	G	1352.63	1334.62	1335.60	1326.65	1308.64	1309.62	1309.62	1291.61	1292.60	1310.63	1292.62	1293.60	676.82	663.83	655.31	655.82	12
7	129.11	911.43	893.42	894.40	883.43	865.42	866.41	928.46	910.45	911.43	927.45	456.21	442.22	464.73	R	1295.61	1277.60	1278.58	1269.63	1251.62	1252.60	1252.60	1234.59	1235.58	1253.61	1235.60	1236.58	648.30	635.31	626.80	627.31	11
8	30.03	968.45	950.44	951.42	940.46	922.44	923.43	985.48	967.47	968.45	984.47	484.73	470.73	493.24	G	1139.51	1121.50	1122.48	1113.53	1095.52	1096.50	1096.50	1078.49	1079.47	1097.51	1079.50	1080.48	570.25	557.26	548.75	549.25	10
9	60.04	1055.48	1037.47	1038.46	1027.49	1009.48	1010.46	1072.51	1054.50	1055.48	1071.50	528.24	514.24	536.75	S	1082.49	1064.48	1065.46	1056.51	1038.50	1039.48	1039.48	1021.47	1022.45	1040.49	1022.48	1023.46	541.74	528.75	520.24	520.74	9
10	102.06	1184.53	1166.51	1167.50	1156.53	1138.52	1139.50	1201.55	1183.54	1184.53	1200.54	592.76	578.77	601.28	E	995.45	977.44	978.43	969.47	951.46	952.45	952.45	934.44	935.42	953.46	935.45	936.43	498.23	485.24	476.72	477.23	8
11	102.06	1313.56	1295.56	1296.54	1285.57	1267.56	1268.55	1330.61	1312.58	1313.56	1329.59	657.28	643.29	665.80	E	866.41	848.40	849.38	840.43	822.42	823.41	823.41	805.39	806.38	824.41	806.40	807.39	433.71	420.72	412.21	412.71	7
12	88.04	1428.59	1410.58	1411.57	1400.60	1382.59	1383.57	1445.62	1427.61	1428.59	1444.61	714.80	700.80	723.31	D	737.37	719.36	720.34	711.39	693.38	694.36	694.36	676.35	677.34	695.37	677.36	678.34	369.22	356.19	347.68	348.19	6
13	129.11	1584.70	1566.69	1567.67	1556.69	1538.69	1539.67	1601.72	1583.71	1584.70	1600.71	792.85	778.85	801.36	R	622.34	604.33	605.32	596.36	578.35	579.34	579.34	561.33	562.31	580.34	562.33	563.32	311.67	298.68	290.17	290.67	5
14	44.05	1655.73	1637.72	1638.71	1627.74	1609.73	1610.71	1672.76	1654.75	1655.73	1671.75	828.37	814.37	836.88	A	466.24	448.23	449.21	440.26	422.25	423.23	423.23	405.22	406.21	424.24	406.23	407.22	233.62	220.63	212.12	212.62	4
15	70.07	1752.79	1734.78	1735.76	1724.79	1706.78	1707.76	1769.81	1751.80	1752.79	1768.80	876.89	862.90	885.41	P	395.20	377.19	378.13	369.22	351.21	352.20	352.20	334.19	335.17	353.21	335.19	336.18	198.10	185.11	176.60	177.10	3
16	129.11	1908.89	1890.88	1891.86	1880.89	1862.88	1863.86	1925.91	1907.90	1908.89	1924.91	954.94	940.95	963.46	R	298.15	280.14	281.12	272.17	254.16	255.14	255.14	237.13	238.12	256.15	238.14	239.13	149.58	136.59	128.07	128.58	2
17	70.07														P	142.05	124.04	125.02	116.07	98.06	99.04	99.04	81.03	82.02	100.05	82.04	83.02	71.52	58.54	50.02	50.53	1



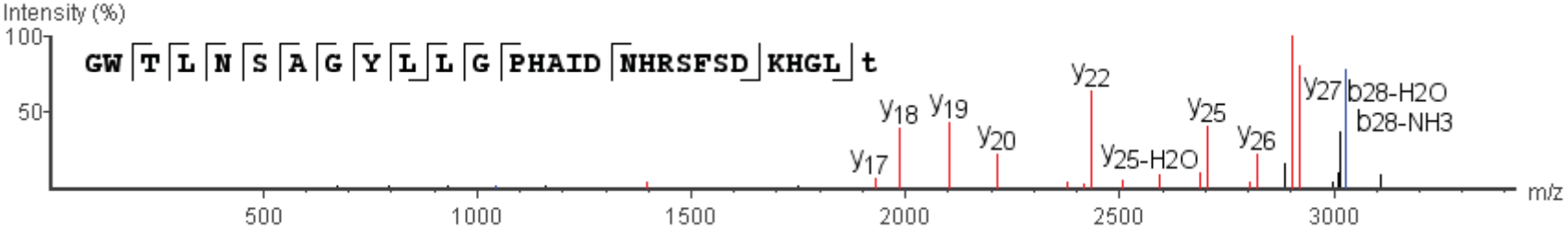
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
secretogranin-1	P16014|SCG1_MOUSE		R.GLQYRGRGS(+79.97)EEDRAPRPR.S	57.4	3.7	436.8168	5



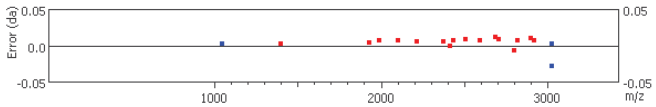
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	30.03	58.03	40.02	41.00	30.03	12.02	13.01	75.06	57.05	58.03	74.05	29.51	15.52	38.03	G																	18
2	86.10	171.11	153.10	154.09	143.12	125.11	126.09	188.14	170.13	171.11	187.13	86.06	72.06	94.57	L	2149.01	2131.00	2131.98	2123.03	2105.02	2106.00	2106.00	2087.99	2088.98	2107.01	2089.00	2089.98	1075.00	1062.01	1053.50	1054.01	17
3	101.07	299.17	281.16	282.14	271.18	253.17	254.15	316.20	298.19	299.17	315.19	150.09	136.08	158.60	Q	2035.92	2017.91	2018.90	2009.94	1991.92	1992.92	1992.92	1974.91	1975.89	1993.93	1975.92	1976.90	1018.46	1005.47	996.96	997.46	16
4	136.08	462.24	444.22	445.21	434.24	416.23	417.21	479.26	461.25	462.24	478.25	231.62	217.62	240.13	Y	1907.87	1889.86	1890.84	1881.89	1863.88	1864.86	1864.86	1846.85	1847.83	1865.87	1847.86	1848.84	954.43	941.45	932.93	933.43	15
5	129.11	618.31	600.33	601.31	590.34	572.33	573.31	635.36	617.35	618.31	634.36	309.67	295.67	318.18	R	1744.80	1726.79	1727.78	1718.82	1700.81	1701.80	1701.80	1683.79	1684.77	1702.80	1684.79	1685.78	872.90	859.91	851.40	851.90	14
6	30.03	675.36	657.35	658.33	647.36	629.35	630.36	692.38	674.37	675.36	691.38	338.18	324.18	346.72	G	1588.70	1570.69	1571.67	1562.72	1544.71	1545.69	1545.69	1527.68	1528.67	1546.70	1528.69	1529.68	794.85	781.86	773.35	773.85	13
7	129.11	831.46	813.45	814.43	803.46	785.45	786.44	848.49	830.48	831.46	847.48	416.23	402.23	424.74	R	1531.68	1513.67	1514.65	1505.70	1487.69	1488.67	1488.67	1470.66	1471.65	1489.68	1471.67	1472.65	766.34	753.35	744.84	745.34	12
8	30.03	888.48	870.47	871.45	860.49	842.47	843.46	905.51	887.50	888.48	904.50	444.74	430.74	453.25	G	1375.58	1357.57	1358.55	1349.60	1331.59	1332.57	1332.57	1314.56	1315.55	1333.58	1315.57	1316.55	688.29	675.30	666.79	667.29	11
9	140.01	1055.48	1037.47	1038.46	1027.49	1009.48	1010.46	1072.51	1054.50	1055.48	1071.50	528.24	514.24	536.75	S(+79.97)	1318.56	1300.55	1301.53	1292.58	1274.57	1275.55	1275.55	1257.54	1258.52	1276.56	1258.55	1259.53	659.78	646.79	638.28	638.78	10
10	102.06	1184.52	1166.51	1167.50	1156.53	1138.52	1139.50	1201.55	1183.54	1184.52	1200.54	592.76	578.77	601.28	E	1151.56	1133.54	1134.53	1125.58	1107.57	1108.55	1108.55	1090.54	1091.52	1109.56	1091.55	1092.53	576.28	563.29	554.77	555.28	9
11	102.06	1313.57	1295.56	1296.54	1285.57	1267.56	1268.55	1330.62	1312.58	1313.57	1329.59	657.28	643.29	665.80	E	1022.51	1004.50	1005.49	996.54	978.52	979.51	979.51	961.50	962.48	980.51	962.50	963.49	511.76	498.77	490.25	490.76	8
12	88.04	1428.59	1410.58	1411.57	1400.60	1382.59	1383.57	1445.62	1427.61	1428.59	1444.61	714.80	700.80	723.31	D	893.47	875.46	876.44	867.49	849.48	850.46	850.46	832.45	833.44	851.47	833.46	834.44	447.24	434.25	425.73	426.24	7
13	129.11	1584.70	1566.69	1567.67	1556.70	1538.69	1539.67	1601.72	1583.71	1584.70	1600.71	792.85	778.85	801.36	R	778.44	760.43	761.42	752.47	734.45	735.44	735.44	717.43	718.41	736.44	718.43	719.42	389.72	376.73	368.22	368.72	6
14	44.05	1655.73	1637.72	1638.71	1627.74	1609.73	1610.71	1672.76	1654.75	1655.73	1671.75	828.37	814.37	836.88	A	622.34	604.33	605.32	596.36	578.35	579.34	579.34	561.33	562.31	580.34	562.33	563.32	311.67	298.69	290.17	290.67	5
15	70.07	1752.79	1734.78	1735.76	1724.79	1706.78	1707.76	1769.81	1751.80	1752.79	1768.80	876.89	862.90	885.41	P	551.30	533.29	534.28	525.33	507.32	508.30	508.30	490.29	491.27	509.31	491.30	492.28	276.15	263.17	254.65	255.15	4
16	129.11	1908.89	1890.88	1891.86	1880.89	1862.88	1863.86	1925.91	1907.90	1908.89	1924.91	954.94	940.95	963.46	R	454.25	436.24	437.23	428.27	410.26	411.25	411.25	393.24	394.22	412.25	394.24	395.23	227.63	214.64	206.12	206.63	3
17	70.07	2005.94	1987.93	1988.91	1977.94	1959.93	1960.92	2022.97	2004.96	2005.94	2021.96	1003.47	989.47	1011.98	P	298.15	280.14	281.12	272.17	254.16	255.14	255.14	237.13	238.12	256.15	238.14	239.13	149.58	136.59	128.07	128.58	2
18	129.11														R	201.10	183.09	184.07	175.12	157.11	158.09	158.09	140.08	141.06	159.10	141.09	142.07	101.05	88.06	79.55	80.05	1



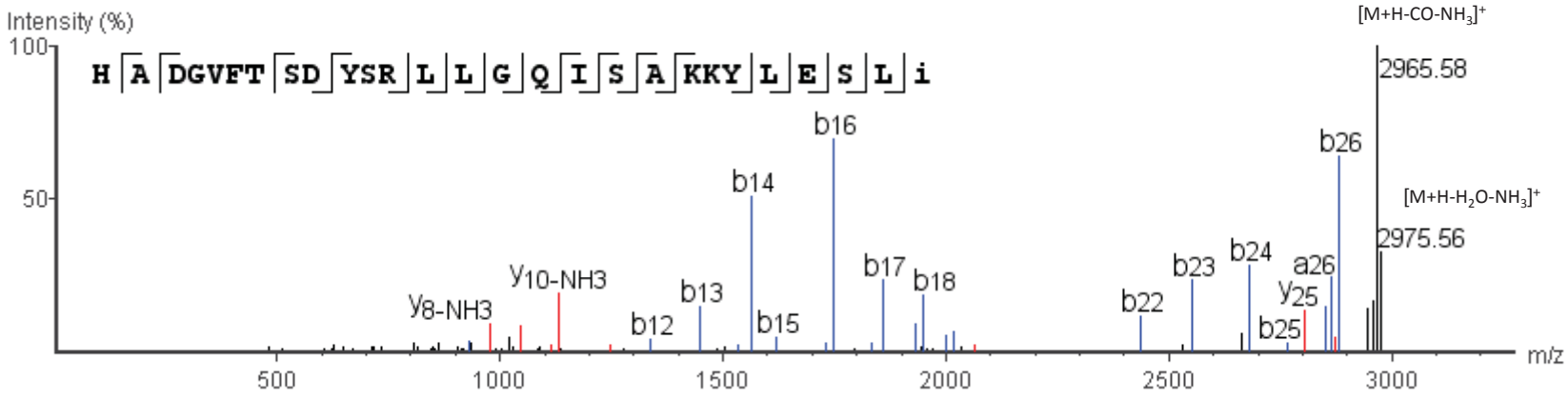
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Galanin peptides	P47212|GALA_MOUSE	Galanin	R.GWTLNSAGYLLGPHAIDNHRSFSDKHGLT(-.98).G	32	-0.4	633.522	5



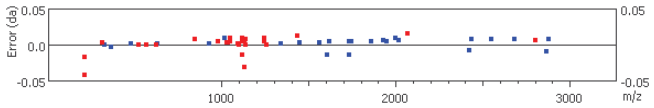
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	30.03	58.03	40.02	41.00	30.03	12.02	13.01	75.06	57.05	58.03	74.05	29.51	15.52	38.03	G																	29
2	159.09	244.11	226.10	227.08	216.11	198.10	199.09	261.14	243.13	244.11	260.13	122.55	108.56	131.07	W	3132.54	3114.53	3115.52	3106.56	3088.55	3089.54	3089.54	3071.53	3072.51	3090.55	3072.53	3073.52	1566.77	1553.78	1545.27	1545.77	28
3	74.06	345.16	327.15	328.13	317.16	299.15	300.13	362.18	344.17	345.16	361.18	173.08	159.08	181.59	T	2946.46	2928.45	2929.44	2920.48	2902.46	2903.46	2903.46	2885.45	2886.43	2904.47	2886.46	2887.44	1473.73	1460.74	1452.23	1452.73	27
4	86.10	458.24	440.23	441.21	430.25	412.23	413.22	475.27	457.26	458.24	474.26	229.62	215.62	238.13	L	2845.42	2827.41	2828.39	2819.43	2801.43	2802.42	2802.42	2784.40	2785.38	2803.42	2785.41	2786.39	1423.21	1410.22	1401.71	1402.21	26
5	87.06	572.28	554.27	555.26	544.29	526.28	527.26	589.31	571.30	572.28	588.30	286.64	272.64	295.16	N	2732.33	2714.32	2715.31	2706.34	2688.33	2689.33	2689.33	2671.32	2672.30	2690.33	2672.32	2673.31	1366.67	1353.68	1345.16	1345.67	25
6	60.04	659.32	641.30	642.29	631.32	613.31	614.29	676.34	658.33	659.32	675.33	330.16	316.16	338.67	S	2618.29	2600.28	2601.26	2592.30	2574.30	2575.28	2575.28	2557.27	2558.26	2576.29	2558.28	2559.26	1309.64	1296.66	1288.14	1288.65	24
7	44.05	730.35	712.34	713.33	702.36	684.35	685.33	747.38	729.37	730.35	746.37	365.68	351.68	374.19	A	2531.26	2513.25	2514.23	2505.27	2487.27	2488.25	2488.25	2470.24	2471.22	2489.26	2471.25	2472.23	1266.13	1253.14	1244.63	1245.13	23
8	30.03	787.37	769.36	770.35	759.38	741.37	742.35	804.40	786.39	787.37	803.39	394.19	380.19	402.70	G	2460.22	2442.21	2443.19	2434.23	2416.23	2417.22	2417.22	2399.20	2400.19	2418.22	2400.21	2401.20	1230.61	1217.62	1209.11	1209.61	22
9	136.08	950.44	932.43	933.41	922.44	904.43	905.42	967.46	949.45	950.44	966.46	475.72	461.72	484.23	Y	2403.20	2385.19	2386.17	2377.21	2359.21	2360.19	2360.19	2342.18	2343.17	2361.20	2343.19	2344.17	1202.10	1189.11	1180.60	1181.10	21
10	86.10	1063.52	1045.51	1046.49	1035.53	1017.52	1018.50	1080.55	1062.54	1063.52	1079.54	532.26	518.26	540.77	L	2240.14	2222.13	2223.11	2214.15	2196.15	2197.13	2197.13	2179.12	2180.10	2198.14	2180.13	2181.11	1120.57	1107.58	1099.06	1099.57	20
11	86.10	1176.61	1158.59	1159.58	1148.61	1130.60	1131.58	1193.63	1175.62	1176.61	1192.62	588.80	574.81	597.32	L	2127.05	2109.04	2110.02	2101.06	2083.06	2084.05	2084.05	2066.03	2067.02	2085.05	2067.04	2068.03	1064.03	1051.04	1042.52	1043.03	19
12	30.03	1233.63	1215.62	1216.60	1205.63	1187.62	1188.60	1250.65	1232.64	1233.63	1249.65	617.31	603.32	625.83	G	2013.97	1995.96	1996.94	1987.98	1969.98	1970.96	1970.96	1952.95	1953.93	1971.97	1953.96	1954.94	1007.48	994.49	985.98	986.48	18
13	70.07	1330.68	1312.67	1313.65	1302.68	1284.67	1285.66	1347.71	1329.70	1330.68	1346.70	665.84	651.84	674.35	P	1956.95	1938.94	1939.92	1930.96	1912.96	1913.94	1913.94	1895.93	1896.91	1914.95	1896.94	1897.92	978.97	965.98	957.47	957.97	17
14	110.07	1467.74	1449.73	1450.71	1439.74	1421.73	1422.72	1484.77	1466.75	1467.74	1483.76	734.37	720.37	742.88	H	1859.89	1841.88	1842.87	1833.91	1815.90	1816.89	1816.89	1798.88	1799.86	1817.90	1799.88	1800.87	930.45	917.46	908.94	909.45	16
15	44.05	1538.78	1520.77	1521.75	1510.78	1492.77	1493.75	1555.80	1537.79	1538.78	1554.79	769.89	755.89	778.40	A	1722.83	1704.82	1705.81	1696.86	1678.84	1679.83	1679.83	1661.82	1662.80	1680.84	1662.83	1663.81	861.92	848.93	840.41	840.92	15
16	86.10	1651.86	1633.85	1634.83	1623.86	1605.85	1606.84	1668.89	1650.88	1651.86	1667.88	826.43	812.43	834.94	I	1651.80	1633.79	1634.77	1625.82	1607.81	1608.79	1608.79	1590.78	1591.76	1609.80	1591.79	1592.77	826.40	813.41	804.90	805.40	14
17	88.04	1766.89	1748.88	1749.86	1738.89	1720.88	1721.86	1783.91	1765.90	1766.89	1782.91	883.94	869.95	892.46	D	1538.71	1520.70	1521.69	1512.73	1494.72	1495.71	1495.71	1477.70	1478.68	1496.71	1478.70	1479.69	769.86	756.87	748.35	748.86	13
18	87.06	1880.93	1862.92	1863.90	1852.93	1834.92	1835.91	1897.96	1879.95	1880.93	1896.95	940.96	926.97	949.48	N	1423.69	1405.68	1406.66	1397.70	1379.70	1380.68	1380.68	1362.67	1363.65	1381.69	1363.68	1364.66	712.34	699.35	690.84	691.34	12
19	110.07	2017.99	1999.98	2000.96	1989.99	1971.98	1972.97	2035.02	2017.00	2017.99	2034.01	1009.49	995.50	1018.01	H	1309.64	1291.63	1292.62	1283.66	1265.65	1266.64	1266.64	1248.63	1249.61	1267.65	1249.63	1250.62	655.32	642.33	633.82	634.32	11
20	129.11	2174.09	2156.08	2157.06	2146.09	2128.08	2129.07	2191.12	2173.11	2174.09	2190.11	1087.54	1073.55	1096.06	R	1172.58	1154.57	1155.56	1146.61	1128.59	1129.58	1129.58	1111.57	1112.55	1130.59	1112.58	1113.56	586.79	573.80	565.29	565.79	10
21	60.04	2261.12	2243.11	2244.09	2233.13	2215.12	2216.10	2278.15	2260.14	2261.12	2277.14	1131.06	1117.06	1139.57	S	1016.48	998.47	999.46	990.50	972.49	973.48	973.48	955.47	956.45	974.49	956.47	957.46	508.74	495.75	487.24	487.74	9
22	120.08	2408.19	2390.18	2391.16	2380.20	2362.18	2363.17	2425.22	2407.21	2408.19	2424.21	1204.59	1190.60	1213.11	F	929.45	911.44	912.42	903.47	885.46	886.45	886.45	868.43	869.42	887.45	869.44	870.43	465.23	452.24	443.72	444.23	8
23	60.04	2495.22	2477.21	2478.19	2467.23	2449.22	2450.20	2512.25	2494.24	2495.22	2511.24	1248.11	1234.11	1256.62	S	782.38	764.37	765.36	756.40	738.39	739.38	739.38	721.37	722.35	740.38	722.37	723.36	391.69	378.70	370.19	370.69	7
24	88.04	2610.25	2592.23	2593.22	2582.25	2564.24	2565.23	2627.28	2609.27	2610.25	2626.27	1305.62	1291.63	1314.14	D	695.35	677.34	678.32	669.37	651.36	652.34	652.34	634.33	635.32	653.35	635.34	636.33	348.18	335.19	326.67	327.18	6
25	101.11	2738.34	2720.33	2721.32	2710.35	2692.34	2693.32	2755.37	2737.36	2738.34	2754.36	1369.67	1355.67	1378.19	K	580.32	562.31	563.30	554.34	536.33	537.32	537.32	519.31	520.29	538.33	520.32	521.30	290.66	277.67	269.16	269.66	5
26	110.07	2875.40	2857.39	2858.38	2847.41	2829.40	2830.38	2892.43	2874.42	2875.40	2891.42	1438.20	1424.20	1446.71	H	452.23	434.22	435.20	426.25	408.24	409.22	409.22	391.21	392.20	410.23	392.22	393.20	226.61	213.62	205.11	205.62	4
27	30.03	2932.42	2914.41	2915.40	2904.43	2886.42	2887.40	2949.45	2931.44	2932.42	2948.44	1466.71	1452.71	1475.23	G	315.17	297.16	298.14	289.19	271.18	272.16	272.16	254.15	255.14	273.17	255.16	256.14	158.09	145.10	136.58	137.09	3
28	86.10	3045.51	3027.49	3028.51	3017.51	2999.50	3000.49	3062.54	3044.52	3045.51	3061.53	1523.25	1509.26	1531.77	L	258.15	240.14	241.12	232.17	214.16	215.14	215.14	197.13	198.12	216.15	198.14	199.12	129.57	116.58	108.07	108.58	2
29	73.08														T(-.98)	145.06	127.05	128.04	119.09	101.07	102.06	102.06	84.05	85.03	103.07	85.06	86.04	73.03	60.04	51.53	52.03	1



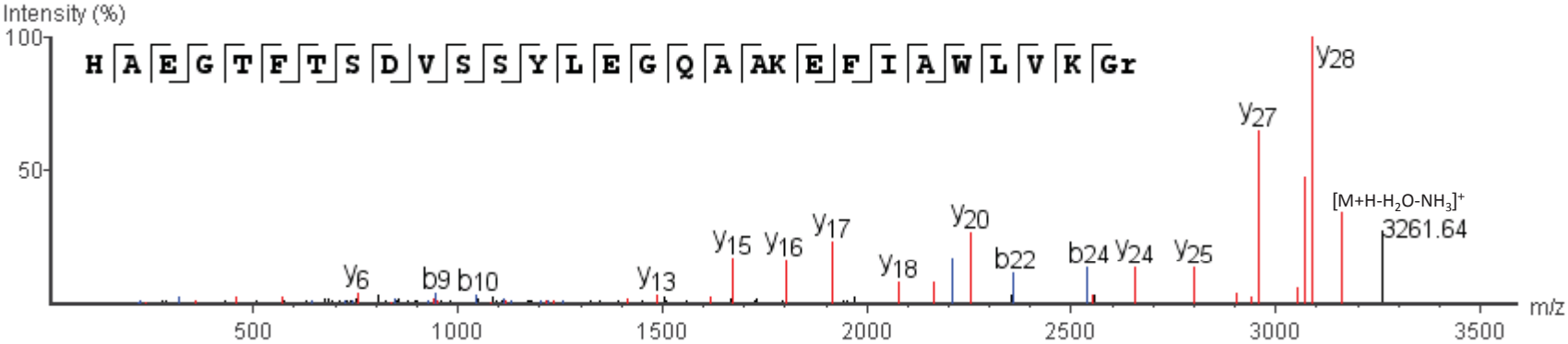
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
VIP peptides	P32648|VIP_MOUSE	Intestinal peptide PHI-27	R.HADGVFTSDYSRLLGQISAKKYLESLI(-.98).G	113.97	1.4	753.4064	4



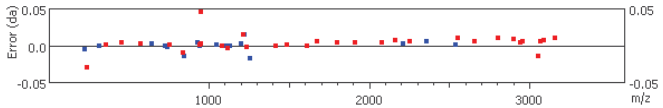
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	110.07	138.07	120.06	121.04	110.07	92.06	93.04	155.09	137.08	138.07	154.09	69.53	55.54	78.05	H																	27
2	44.05	209.10	191.09	192.08	181.11	163.10	164.08	226.13	208.12	209.10	225.12	105.05	91.05	113.57	A	2899.52	2881.51	2882.50	2873.54	2855.53	2856.52	2856.52	2838.51	2839.49	2857.53	2839.51	2840.50	1450.26	1437.27	1428.76	1429.26	26
3	88.04	324.13	306.12	307.10	296.14	278.13	279.11	341.16	323.15	324.13	340.15	162.57	148.57	171.08	D	2828.49	2810.48	2811.46	2802.50	2784.50	2785.48	2785.48	2767.47	2768.45	2786.49	2768.48	2769.46	1414.74	1401.75	1393.24	1393.74	25
4	30.03	381.15	363.14	364.13	353.16	335.15	336.13	398.18	380.17	381.15	397.17	191.08	177.08	199.59	G	2713.46	2695.45	2696.43	2687.48	2669.47	2670.45	2670.45	2652.44	2653.43	2671.46	2653.45	2654.43	1357.23	1344.24	1335.73	1336.23	24
5	72.08	480.22	462.21	463.19	452.23	434.22	435.20	497.25	479.24	480.22	496.24	240.61	226.61	249.12	V	2656.44	2638.43	2639.41	2630.46	2612.45	2613.43	2613.43	2595.42	2596.41	2614.44	2596.43	2597.41	1328.72	1315.73	1307.22	1307.72	23
6	120.08	627.29	609.28	610.26	599.29	581.28	582.27	644.32	626.31	627.29	643.31	314.14	300.15	322.66	F	2557.37	2539.36	2540.34	2531.39	2513.38	2514.36	2514.36	2496.35	2497.34	2515.37	2497.36	2498.34	1279.18	1266.20	1257.68	1258.19	22
7	74.06	728.34	710.33	711.31	700.34	682.33	683.31	745.36	727.35	728.34	744.36	364.67	350.67	373.18	T	2410.30	2392.29	2393.27	2384.32	2366.31	2367.30	2367.30	2349.28	2350.27	2368.30	2350.29	2351.28	1205.65	1192.66	1184.15	1184.65	21
8	60.04	815.37	797.36	798.34	787.37	769.36	770.35	832.40	814.39	815.37	831.39	408.18	394.19	416.70	S	2309.25	2291.24	2292.23	2283.27	2265.26	2266.25	2266.25	2248.24	2249.22	2267.26	2249.24	2250.23	1155.13	1142.14	1133.66	1134.13	20
9	88.04	930.39	912.39	913.37	902.40	884.39	885.37	947.42	929.41	930.39	946.41	465.70	451.70	474.21	D	2222.22	2204.21	2205.20	2196.24	2178.23	2179.22	2179.22	2161.21	2162.19	2180.22	2162.21	2163.20	1111.61	1098.62	1090.11	1090.61	19
10	136.08	1093.46	1075.45	1076.43	1065.46	1047.45	1048.44	1110.49	1092.48	1093.46	1109.48	547.23	533.23	555.74	Y	2107.19	2089.18	2090.17	2081.22	2063.21	2064.19	2064.19	2046.18	2047.16	2065.18	2047.19	2048.17	1054.10	1041.11	1032.59	1033.09	18
11	60.04	1180.49	1162.48	1163.46	1152.50	1134.49	1135.47	1197.52	1179.51	1180.49	1196.51	590.75	576.75	599.26	S	1944.13	1926.12	1927.10	1918.15	1900.14	1901.13	1901.13	1883.11	1884.10	1902.13	1884.12	1885.11	972.57	959.58	951.06	951.57	17
12	129.11	1336.59	1318.58	1319.57	1308.60	1290.59	1291.57	1353.62	1335.61	1336.59	1352.61	668.80	654.80	677.31	R	1857.10	1839.09	1840.07	1831.12	1813.11	1814.09	1814.09	1796.08	1797.07	1815.10	1797.09	1798.07	929.05	916.06	907.55	908.05	16
13	86.10	1449.67	1431.67	1432.65	1421.68	1403.67	1404.65	1466.70	1448.69	1449.67	1465.70	725.34	711.34	733.85	L	1701.00	1682.99	1683.97	1675.02	1657.01	1657.99	1657.99	1639.98	1640.97	1659.00	1640.99	1641.97	851.00	838.01	829.50	830.00	15
14	86.10	1562.76	1544.75	1545.73	1534.77	1516.75	1517.74	1579.79	1561.78	1562.76	1578.78	781.88	767.88	790.39	L	1587.91	1569.90	1570.89	1561.94	1543.92	1544.91	1544.91	1526.90	1527.88	1545.92	1527.91	1528.89	794.46	781.47	772.95	773.46	14
15	30.03	1619.78	1601.77	1602.77	1591.79	1573.78	1574.76	1636.81	1618.80	1619.78	1635.80	810.39	796.39	818.90	G	1474.83	1456.82	1457.80	1448.85	1430.84	1431.82	1431.82	1413.81	1414.80	1432.82	1414.82	1415.80	737.92	724.93	716.41	716.92	13
16	101.07	1747.83	1729.82	1730.83	1719.85	1701.83	1702.82	1764.87	1746.86	1747.83	1763.86	874.42	860.42	882.93	Q	1417.81	1399.80	1400.78	1391.83	1373.82	1374.80	1374.80	1356.79	1357.78	1375.81	1357.80	1358.78	709.40	696.41	687.90	688.41	12
17	86.10	1860.92	1842.91	1843.90	1832.93	1814.92	1815.90	1877.95	1859.94	1860.92	1876.94	930.96	916.96	939.48	I	1289.75	1271.74	1272.72	1263.77	1245.76	1246.74	1246.74	1228.73	1229.72	1247.74	1229.74	1230.72	645.38	632.39	623.87	624.38	11
18	60.04	1947.95	1929.94	1930.93	1919.96	1901.95	1902.93	1964.98	1946.97	1947.95	1963.98	974.48	960.48	982.99	S	1176.67	1158.66	1159.64	1150.69	1132.68	1133.66	1133.66	1115.64	1116.65	1134.66	1116.65	1117.64	588.83	575.84	567.33	567.83	10
19	44.05	2018.99	2000.97	2001.97	1991.00	1972.99	1973.97	2036.02	2018.01	2018.99	2035.01	1010.00	996.00	1018.50	A	1089.63	1071.62	1072.61	1063.65	1045.64	1046.62	1046.62	1028.61	1029.60	1047.63	1029.63	1030.61	545.32	532.33	523.82	524.32	9
20	101.11	2147.09	2129.08	2130.06	2119.09	2101.08	2102.07	2164.12	2146.10	2147.09	2163.11	1074.04	1060.05	1082.56	K	1018.60	1000.59	1001.57	992.62	974.61	975.59	975.59	957.58	958.56	976.60	958.59	959.57	509.80	496.81	488.30	488.80	8
21	101.11	2275.18	2257.17	2258.16	2247.19	2229.18	2230.16	2292.21	2274.20	2275.18	2291.20	1138.09	1124.09	1146.61	K	890.50	872.49	873.48	864.52	846.51	847.49	847.49	829.49	830.47	848.50	830.49	831.48	445.75	432.76	424.25	424.75	7
22	136.08	2438.24	2420.24	2421.23	2410.25	2392.24	2393.22	2455.27	2437.26	2438.24	2454.27	1219.62	1205.63	1228.14	Y	762.41	744.40	745.38	736.43	718.42	719.40	719.40	701.39	702.37	720.41	702.40	703.38	381.70	368.71	360.20	360.70	6
23	86.10	2551.32	2533.32	2534.30	2523.34	2505.33	2506.31	2568.36	2550.35	2551.32	2567.35	1276.17	1262.17	1284.68	L	599.34	581.33	582.32	573.36	555.35	556.34	556.34	538.33	539.31	557.35	539.33	540.32	300.17	287.18	278.67	279.17	5
24	102.06	2680.37	2662.36	2663.35	2652.38	2634.37	2635.35	2697.40	2679.39	2680.37	2696.39	1340.69	1326.69	1349.20	E	486.26	468.25	469.23	460.28	442.27	443.25	443.25	425.24	426.23	444.26	426.25	427.23	243.63	230.64	222.13	222.63	4
25	60.04	2767.41	2749.40	2750.38	2739.41	2721.40	2722.38	2784.43	2766.42	2767.41	2783.42	1384.20	1370.21	1392.72	S	357.22	339.21	340.19	331.24	313.23	314.21	314.21	296.20	297.18	315.22	297.21	298.19	179.11	166.12	157.61	158.11	3
26	86.10	2880.48	2862.48	2863.47	2852.49	2834.48	2835.47	2897.52	2879.51	2880.48	2896.51	1440.74	1426.75	1449.26	L	270.19	252.17	253.16	244.21	226.20	227.18	227.18	209.17	210.19	228.19	210.19	211.16	135.59	122.60	114.09	114.59	2
27	85.12														I(-.98)	157.10	139.09	140.07	131.12	113.11	114.09	114.09	96.08	97.07	115.10	97.09	98.08	79.05	66.06	57.55	58.05	1



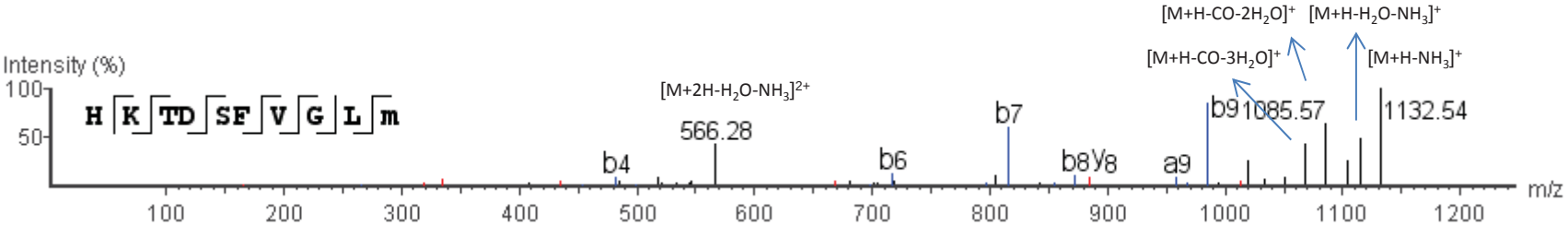
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Glucagon	P55095|GLUC_MOUSE	Glucagon-like peptide 1(7-36)	R.HAEGTFTSDVSSYLEGQAAKEFIAWLVKGR(-.98).G	100.81	15	824.9241	4



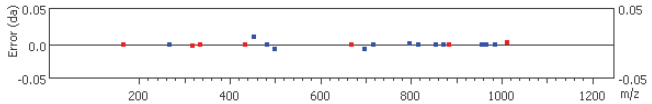
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	110.07	138.07	120.06	121.04	110.07	92.06	93.04	155.09	137.08	138.07	154.09	69.53	55.54	78.05	H																	30
2	44.05	209.10	191.09	192.08	181.11	163.10	164.08	226.13	208.12	209.10	225.13	105.05	91.05	113.57	A	3185.59	3167.58	3168.57	3159.60	3141.60	3142.59	3142.59	3124.58	3125.56	3143.60	3125.58	3126.57	1593.30	1580.31	1571.79	1572.30	29
3	102.06	338.15	320.14	321.12	310.15	292.14	293.12	355.17	337.16	338.15	354.17	169.57	155.58	178.09	E	3114.56	3096.55	3097.53	3088.57	3070.56	3071.55	3071.55	3053.55	3054.52	3072.56	3054.55	3055.53	1557.78	1544.79	1536.28	1536.78	28
4	30.03	395.17	377.16	378.14	367.17	349.16	350.15	412.19	394.18	395.17	411.19	198.08	184.09	206.60	G	2985.51	2967.50	2968.49	2959.53	2941.52	2942.51	2942.51	2924.50	2925.48	2943.52	2925.51	2926.49	1493.26	1480.27	1471.75	1472.26	27
5	74.06	496.22	478.21	479.19	468.22	450.21	451.19	513.24	495.23	496.22	512.23	248.61	234.61	257.12	T	2928.49	2910.48	2911.47	2902.50	2884.50	2885.49	2885.49	2867.48	2868.46	2886.49	2868.48	2869.47	1464.75	1451.76	1443.24	1443.75	26
6	120.08	643.28	625.27	626.26	615.29	597.28	598.26	660.31	642.30	643.28	659.30	322.14	308.14	330.66	F	2827.45	2809.43	2810.42	2801.45	2783.46	2784.44	2784.44	2766.43	2767.41	2785.45	2767.44	2768.42	1414.22	1401.23	1392.72	1393.22	25
7	74.06	744.33	726.32	727.30	716.34	698.33	699.31	761.36	743.35	744.33	760.35	372.67	358.67	381.18	T	2680.38	2662.37	2663.35	2654.39	2636.39	2637.37	2637.37	2619.36	2620.34	2638.38	2620.37	2621.35	1340.69	1327.70	1319.19	1319.69	24
8	60.04	831.36	813.35	814.34	803.37	785.36	786.34	848.39	830.38	831.36	847.40	416.18	402.18	424.70	S	2579.33	2561.32	2562.30	2553.34	2535.34	2536.32	2536.32	2518.31	2519.30	2537.33	2519.32	2520.30	1290.16	1277.17	1268.66	1269.17	23
9	88.04	946.39	928.38	929.36	918.40	900.39	901.37	963.42	945.41	946.39	962.41	473.70	459.70	482.21	D	2492.30	2474.29	2475.27	2466.32	2448.31	2449.29	2449.29	2431.28	2432.26	2450.30	2432.29	2433.27	1246.65	1233.66	1225.15	1225.65	22
10	72.08	1045.46	1027.45	1028.43	1017.46	999.45	1000.44	1062.49	1044.48	1045.46	1061.48	523.23	509.23	531.74	V	2377.27	2359.26	2360.24	2351.29	2333.28	2334.26	2334.26	2316.25	2317.24	2335.27	2317.26	2318.24	1189.14	1176.15	1167.63	1168.14	21
11	60.04	1132.49	1114.48	1115.46	1104.50	1086.49	1087.47	1149.52	1131.51	1132.49	1148.51	566.75	552.75	575.26	S	2278.20	2260.19	2261.18	2252.22	2234.21	2235.20	2235.20	2217.19	2218.17	2236.20	2218.19	2219.18	1139.60	1126.61	1118.10	1118.60	20
12	60.04	1219.51	1201.51	1202.50	1191.53	1173.52	1174.50	1236.55	1218.54	1219.51	1235.54	610.26	596.26	618.78	S	2191.17	2173.16	2174.14	2165.18	2147.18	2148.16	2148.16	2130.15	2131.14	2149.17	2131.16	2132.14	1096.08	1083.09	1074.58	1075.09	19
13	136.08	1382.59	1364.58	1365.56	1354.59	1336.58	1337.56	1399.61	1381.60	1382.59	1398.61	691.79	677.80	700.31	Y	2104.14	2086.13	2087.11	2078.15	2060.15	2061.13	2061.13	2043.12	2044.10	2062.14	2044.13	2045.11	1052.57	1039.58	1031.07	1031.57	18
14	86.10	1495.67	1477.66	1478.64	1467.68	1449.67	1450.65	1512.70	1494.69	1495.67	1511.69	748.34	734.34	756.85	L	1941.07	1923.06	1924.05	1915.09	1897.08	1898.07	1898.07	1880.06	1881.04	1899.08	1881.07	1882.05	971.04	958.05	949.53	950.04	17
15	102.06	1624.71	1606.70	1607.69	1596.72	1578.71	1579.69	1641.74	1623.73	1624.71	1640.73	812.86	798.86	821.37	E	1827.99	1809.98	1810.96	1802.01	1784.00	1784.98	1784.98	1766.97	1767.96	1785.99	1767.98	1768.96	914.50	901.51	892.99	893.50	16
16	30.03	1681.73	1663.72	1664.71	1653.74	1635.73	1636.71	1698.76	1680.75	1681.73	1697.75	841.37	827.37	849.88	G	1698.95	1680.94	1681.92	1672.96	1654.96	1655.94	1655.94	1637.93	1638.91	1656.95	1638.94	1639.92	849.97	836.98	828.47	828.97	15
17	101.07	1809.79	1791.78	1792.77	1781.80	1763.79	1764.77	1826.82	1808.81	1809.79	1825.81	905.40	891.40	913.91	Q	1641.93	1623.92	1624.90	1615.95	1597.94	1598.92	1598.92	1580.91	1581.89	1599.93	1581.92	1582.90	821.46	808.47	799.96	800.46	14
18	44.05	1880.83	1862.82	1863.80	1852.84	1834.82	1835.81	1897.86	1879.85	1880.83	1896.85	940.92	926.92	949.43	A	1513.87	1495.86	1496.84	1487.89	1469.88	1470.86	1470.86	1452.85	1453.83	1471.87	1453.86	1454.84	757.43	744.44	735.93	736.43	13
19	44.05	1951.87	1933.86	1934.84	1923.87	1905.86	1906.85	1968.89	1950.88	1951.87	1967.89	976.43	962.44	984.95	A	1442.83	1424.82	1425.80	1416.85	1398.84	1399.82	1399.82	1381.81	1382.80	1400.83	1382.82	1383.81	721.92	708.93	700.41	700.92	12
20	101.11	2079.96	2061.95	2062.94	2051.97	2033.96	2034.94	2096.99	2078.98	2079.96	2095.98	1040.48	1026.48	1048.99	K	1371.79	1353.78	1354.77	1345.81	1327.80	1328.79	1328.79	1310.78	1311.76	1329.80	1311.78	1312.77	686.40	673.41	664.89	665.40	11
21	102.06	2209.00	2190.99	2191.98	2181.01	2163.00	2163.98	2226.03	2208.02	2209.00	2225.02	1105.00	1091.01	1113.52	E	1243.70	1225.69	1226.67	1217.70	1199.71	1200.69	1200.69	1182.68	1183.67	1201.70	1183.69	1184.67	622.35	609.36	600.85	601.35	10
22	120.08	2356.07	2338.06	2339.05	2328.08	2310.07	2311.05	2373.10	2355.09	2356.07	2372.09	1178.54	1164.54	1187.05	F	1114.66	1096.65	1097.63	1088.68	1070.67	1071.65	1071.65	1053.64	1054.62	1072.66	1054.65	1055.63	557.83	544.84	536.32	536.83	9
23	86.10	2469.16	2451.15	2452.13	2441.16	2423.15	2424.14	2486.18	2468.17	2469.16	2485.18	1235.08	1221.08	1243.59	I	967.59	949.53	950.56	941.61	923.60	924.58	924.58	906.57	907.55	925.59	907.58	908.56	484.29	471.30	462.79	463.29	8
24	44.05	2540.19	2522.18	2523.17	2512.20	2494.19	2495.17	2557.22	2539.21	2540.19	2556.21	1270.60	1256.62	1279.11	A	854.50	836.49	837.49	828.52	810.51	811.50	811.50	793.49	794.47	812.51	794.49	795.48	427.75	414.76	406.25	406.75	7
25	159.09	2726.27	2708.26	2709.25	2698.28	2680.27	2681.25	2743.30	2725.29	2726.27	2742.29	1363.64	1349.64	1372.15	W	783.47	765.46	766.44	757.48	739.48	740.46	740.46	722.45	723.43	741.47	723.46	724.44	392.23	379.24	370.73	371.23	6
26	86.10	2839.36	2821.35	2822.33	2811.36	2793.35	2794.34	2856.39	2838.37	2839.36	2855.38	1420.18	1406.18	1428.69	L	597.39	579.38	580.36	571.40	553.40	554.38	554.38	536.37	537.35	555.39	537.38	538.36	299.19	286.20	277.69	278.19	5
27	72.08	2938.43	2920.42	2921.40	2910.43	2892.42	2893.40	2955.45	2937.44	2938.43	2954.45	1469.71	1455.72	1478.23	V	484.30	466.29	467.28	458.32	440.31	441.30	441.30	423.29	424.27	442.30	424.29	425.28	242.65	229.66	221.15	221.65	4
28	101.11	3066.52	3048.51	3049.49	3038.53	3020.52	3021.50	3083.55	3065.54	3066.52	3082.54	1533.76	1519.76	1542.27	K	385.23	367.22	368.21	359.25	341.24	342.23	342.23	324.22	325.20	343.24	325.23	326.21	193.12	180.13	171.61	172.12	3
29	30.03	3123.54	3105.53	3106.52	3095.55	3077.54	3078.52	3140.57	3122.56	3123.54	3139.56	1562.27	1548.27	1570.78	G	257.14	239.16	240.11	231.16	213.15	214.13	214.13	196.12	197.11	215.14	197.13	198.11	129.07	116.08	107.57	108.07	2
30	128.13														R(-.98)	200.12	182.11	183.09	174.14	156.13	157.11	157.11	139.10	140.08	158.12	140.11	141.09	100.56	87.57	79.06	79.56	1



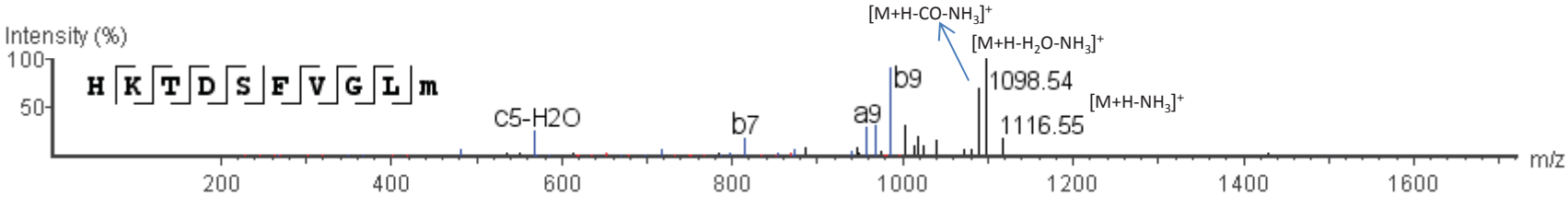
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Protachykinin-1	P41539|TKN1_MOUSE		R.HKTDSFVGLM(-.98)(+15.99).G	67.2	-1.1	575.2891	2



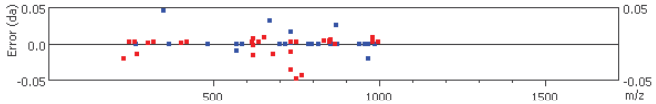
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	110.07	138.07	120.06	121.04	110.07	92.06	93.04	155.09	137.08	138.07	154.09	69.53	55.54	78.05	H																	10
2	101.11	266.16	248.15	249.13	238.17	220.16	221.14	283.19	265.18	266.16	282.18	133.58	119.58	142.09	K	1038.49	1020.48	1021.46	1012.51	994.50	995.49	995.49	977.47	978.46	996.49	978.48	979.47	519.75	506.76	498.24	498.75	9
3	74.06	367.21	349.20	350.18	339.21	321.20	322.19	384.24	366.23	367.21	383.23	184.10	170.11	192.62	T	910.40	892.39	893.37	884.42	866.41	867.39	867.39	849.38	850.36	868.40	850.39	851.37	455.70	442.71	434.20	434.70	8
4	88.04	482.24	464.23	465.21	454.23	436.23	437.21	499.27	481.25	482.24	498.26	241.62	227.62	250.13	D	809.35	791.34	792.32	783.37	765.36	766.34	766.34	748.33	749.32	767.35	749.34	750.32	405.17	392.18	383.67	384.18	7
5	60.04	569.27	551.26	552.24	541.27	523.26	524.25	586.30	568.28	569.27	585.29	285.13	271.14	293.65	S	694.32	676.31	677.30	668.34	650.33	651.32	651.32	633.31	634.29	652.32	634.31	635.30	347.66	334.67	326.16	326.66	6
6	120.08	716.34	698.33	699.31	688.34	670.33	671.31	733.36	715.35	716.34	732.36	358.67	344.67	367.18	F	607.29	589.28	590.26	581.31	563.30	564.28	564.28	546.27	547.26	565.29	547.28	548.26	304.15	291.16	282.64	283.15	5
7	72.08	815.40	797.39	798.38	787.41	769.40	770.38	832.43	814.42	815.40	831.42	408.20	394.21	416.72	V	460.22	442.21	443.19	434.24	416.23	417.22	417.22	399.20	400.19	418.22	400.21	401.20	230.61	217.62	209.11	209.61	4
8	30.03	872.43	854.42	855.40	844.43	826.42	827.40	889.45	871.44	872.43	888.45	436.71	422.72	445.23	G	361.15	343.14	344.13	335.18	317.16	318.15	318.15	300.14	301.12	319.15	301.14	302.13	181.08	168.09	159.57	160.08	3
9	86.10	985.51	967.50	968.48	957.52	939.51	940.49	1002.54	984.53	985.51	1001.53	493.26	479.26	501.77	L	304.13	286.12	287.10	278.15	260.14	261.13	261.13	243.11	244.10	262.13	244.12	245.11	152.57	139.58	131.06	131.57	2
10	119.06														M(+15.01)	191.05	173.04	174.02	165.07	147.06	148.04	148.04	130.03	131.01	149.05	131.04	132.02	96.02	83.03	74.52	75.02	1



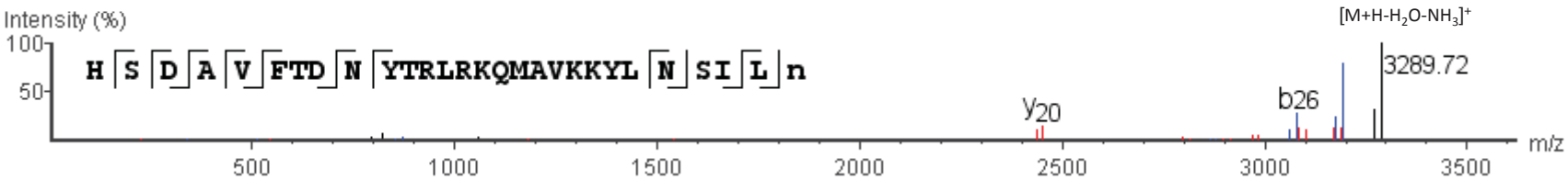
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Protachykinin-1	P41539|TKN1_MOUSE	Neurokinin A	R.HKTDSFVGLM(-.98).G	75.71	-13	567.2915	2



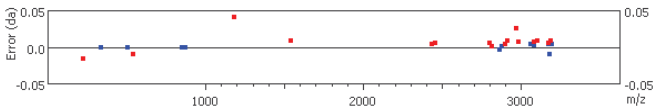
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	110.07	138.07	120.06	121.04	110.07	92.06	93.04	155.09	137.08	138.07	154.09	69.53	55.54	78.05	H																	10
2	101.11	266.16	248.15	249.13	238.17	220.16	221.14	283.19	265.18	266.16	282.18	133.58	119.58	142.09	K	1022.50	1004.49	1005.47	996.52	978.51	979.49	979.49	961.48	962.47	980.49	962.49	963.48	511.75	498.76	490.25	490.75	9
3	74.06	367.21	349.20	350.14	339.21	321.20	322.19	384.24	366.23	367.21	383.23	184.10	170.11	192.62	T	894.41	876.40	877.38	868.43	850.41	851.39	851.39	833.39	834.37	852.40	834.40	835.38	447.70	434.71	426.20	426.70	8
4	88.04	482.24	464.23	465.21	454.24	436.23	437.21	499.26	481.25	482.24	498.26	241.62	227.62	250.13	D	793.36	775.35	776.33	767.42	749.37	750.35	750.35	732.34	733.36	751.41	733.36	734.33	397.18	384.19	375.68	376.18	7
5	60.04	569.27	551.26	552.24	541.27	523.26	524.25	586.29	568.29	569.27	585.29	285.13	271.14	293.65	S	678.35	660.32	661.31	652.34	634.34	635.32	635.32	617.31	618.31	636.33	618.31	619.31	339.67	326.68	318.16	318.67	6
6	120.08	716.34	698.33	699.31	688.34	670.30	671.31	733.36	715.35	716.34	732.34	358.67	344.67	367.18	F	591.30	573.29	574.27	565.32	547.31	548.29	548.29	530.28	531.27	549.30	531.29	532.27	296.15	283.16	274.65	275.15	5
7	72.08	815.40	797.39	798.38	787.41	769.40	770.38	832.43	814.42	815.40	831.42	408.20	394.21	416.72	V	444.23	426.22	427.20	418.25	400.24	401.22	401.22	383.21	384.20	402.23	384.22	385.21	222.62	209.63	201.11	201.62	4
8	30.03	872.43	854.42	855.40	844.43	826.42	827.40	889.45	871.42	872.43	888.45	436.71	422.72	445.23	G	345.16	327.15	328.14	319.18	301.17	302.15	302.15	284.15	285.13	303.16	285.15	286.14	173.08	160.09	151.58	152.08	3
9	86.10	985.51	967.50	968.50	957.52	939.50	940.49	1002.54	984.53	985.51	1001.53	493.26	479.26	501.77	L	288.14	270.15	271.11	262.16	244.15	245.13	245.13	227.12	228.11	246.14	228.13	229.14	144.57	131.58	123.07	123.57	2
10	103.07														M(-.98)	175.06	157.05	158.03	149.08	131.07	132.05	132.05	114.04	115.02	133.06	115.05	116.03	88.03	75.04	66.53	67.03	1



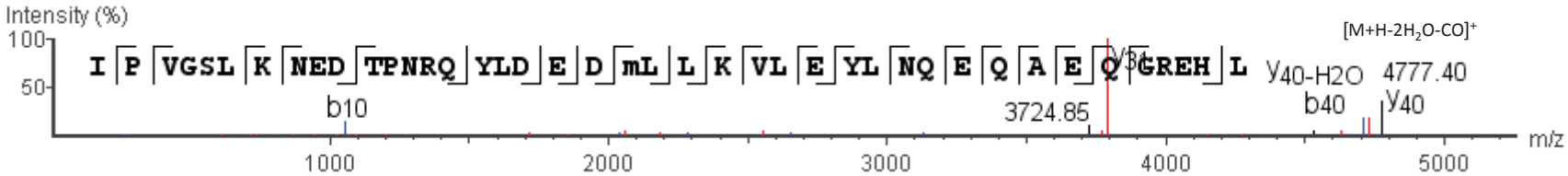
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
VIP peptides	P32648|VIP_MOUSE	Vasoactive intestinal peptide	R.HSDAVFTDNYTRLRKQMAVKKYLNSILN(-.98).G	75.84	3.2	831949	4



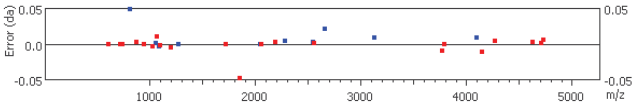
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	110.07	138.07	120.06	121.04	110.07	92.06	93.04	155.09	137.08	138.07	154.09	69.53	55.54	78.05	H																	28
2	60.04	225.10	207.09	208.07	197.10	179.09	180.08	242.13	224.12	225.10	241.12	113.05	99.05	121.56	S	3213.69	3195.68	3196.66	3187.70	3169.70	3170.67	3170.67	3152.67	3153.65	3171.69	3153.68	3154.66	1607.34	1594.35	1585.84	1586.34	27
3	88.04	340.13	322.12	323.10	312.13	294.12	295.10	357.15	339.14	340.13	356.14	170.56	156.57	179.08	D	3126.66	3108.65	3109.63	3100.67	3082.67	3083.64	3083.64	3065.64	3066.62	3084.66	3066.65	3067.63	1563.83	1550.84	1542.32	1542.82	26
4	44.05	411.16	393.15	394.14	383.17	365.16	366.14	428.19	410.18	411.16	427.18	206.08	192.08	214.59	A	3011.63	2993.62	2994.60	2985.64	2967.64	2968.62	2968.62	2950.61	2951.60	2969.60	2951.62	2952.60	1506.31	1493.32	1484.81	1485.32	25
5	72.08	510.23	492.22	493.20	482.24	464.23	465.21	527.26	509.25	510.23	526.25	255.62	241.62	264.13	V	2940.59	2922.58	2923.56	2914.60	2896.60	2897.58	2897.58	2879.57	2880.56	2898.59	2880.58	2881.57	1470.80	1457.81	1449.29	1449.80	24
6	120.08	657.30	639.29	640.27	629.30	611.29	612.28	674.33	656.32	657.30	673.32	329.15	315.15	337.66	F	2841.52	2823.51	2824.50	2815.54	2797.53	2798.51	2798.51	2780.51	2781.49	2799.52	2781.51	2782.50	1421.26	1408.27	1399.76	1400.26	23
7	74.06	758.35	740.34	741.32	730.35	712.34	713.33	775.37	757.36	758.35	774.37	379.67	365.68	388.19	T	2694.45	2676.44	2677.43	2668.48	2650.47	2651.45	2651.45	2633.44	2634.42	2652.46	2634.45	2635.43	1347.73	1334.74	1326.22	1326.73	22
8	88.04	873.37	855.36	856.35	845.38	827.37	828.35	890.40	872.39	873.37	889.39	437.19	423.19	445.70	D	2593.41	2575.40	2576.38	2567.43	2549.42	2550.40	2550.40	2532.39	2533.37	2551.41	2533.40	2534.38	1297.20	1284.21	1275.70	1276.20	21
9	87.06	987.42	969.41	970.39	959.42	941.41	942.40	1004.44	986.43	987.42	1003.44	494.21	480.21	502.72	N	2478.38	2460.37	2461.35	2452.39	2434.39	2435.37	2435.37	2417.36	2418.35	2436.38	2418.37	2419.35	1239.69	1226.70	1218.19	1218.69	20
10	136.08	1150.48	1132.47	1133.45	1122.49	1104.47	1105.46	1167.51	1149.50	1150.48	1166.50	575.74	561.74	584.25	Y	2364.34	2346.33	2347.31	2338.36	2320.35	2321.33	2321.33	2303.32	2304.30	2322.34	2304.33	2305.31	1182.63	1169.68	1161.17	1161.67	19
11	74.06	1251.53	1233.52	1234.50	1223.53	1205.52	1206.51	1268.56	1250.54	1251.53	1267.55	626.26	612.27	634.78	T	2201.27	2183.26	2184.25	2175.29	2157.28	2158.27	2158.27	2140.26	2141.24	2159.28	2141.26	2142.25	1101.14	1088.15	1079.63	1080.14	18
12	129.11	1407.63	1389.62	1390.60	1379.63	1361.62	1362.61	1424.66	1406.65	1407.63	1423.65	704.31	690.32	712.83	R	2100.23	2082.22	2083.20	2074.25	2056.24	2057.22	2057.22	2039.21	2040.19	2058.23	2040.22	2041.20	1050.61	1037.62	1029.11	1029.61	17
13	86.10	1520.71	1502.70	1503.69	1492.72	1474.71	1475.69	1537.74	1519.73	1520.71	1536.73	760.86	746.86	769.37	L	1944.13	1926.11	1927.10	1918.15	1900.14	1901.12	1901.12	1883.11	1884.09	1902.13	1884.12	1885.10	972.56	959.57	951.06	951.56	16
14	129.11	1676.81	1658.80	1659.79	1648.82	1630.81	1631.79	1693.84	1675.83	1676.81	1692.83	838.91	824.91	847.42	R	1831.04	1813.03	1814.01	1805.06	1787.05	1788.03	1788.03	1770.02	1771.01	1789.04	1771.03	1772.02	916.02	903.03	894.52	895.02	15
15	101.11	1804.91	1786.90	1787.88	1776.91	1758.90	1759.89	1821.94	1803.93	1804.91	1820.93	902.95	888.96	911.47	K	1674.94	1656.93	1657.91	1648.96	1630.95	1631.93	1631.93	1613.92	1614.91	1632.94	1614.93	1615.91	837.97	824.98	816.47	816.97	14
16	101.07	1932.97	1914.96	1915.94	1904.97	1886.96	1887.95	1949.99	1931.98	1932.97	1948.99	966.98	952.99	975.50	Q	1546.85	1528.83	1529.82	1520.87	1502.86	1503.84	1503.84	1485.83	1486.81	1504.85	1486.84	1487.82	773.92	760.93	752.42	752.92	13
17	104.05	2064.01	2046.00	2046.98	2036.01	2018.00	2018.99	2081.04	2063.02	2064.01	2080.03	1032.50	1018.51	1041.02	M	1418.79	1400.78	1401.76	1392.81	1374.80	1375.78	1375.78	1357.77	1358.75	1376.79	1358.78	1359.76	709.89	696.90	688.39	688.89	12
18	44.05	2135.05	2117.04	2118.02	2107.05	2089.04	2090.02	2152.07	2134.06	2135.05	2151.06	1068.02	1054.03	1076.54	A	1287.75	1269.74	1270.72	1261.77	1243.76	1244.74	1244.74	1226.73	1227.71	1245.75	1227.74	1228.72	644.37	631.38	622.87	623.37	11
19	72.08	2234.11	2216.10	2217.09	2206.12	2188.11	2189.09	2251.14	2233.13	2234.11	2250.13	1117.56	1103.56	1126.07	V	1216.71	1198.70	1199.68	1190.73	1172.72	1173.70	1173.70	1155.69	1156.68	1174.71	1156.70	1157.68	608.85	595.86	587.35	587.86	10
20	101.11	2362.21	2344.20	2345.18	2334.21	2316.20	2317.19	2379.24	2361.23	2362.21	2378.23	1181.60	1167.61	1190.12	K	1117.64	1099.63	1100.61	1091.66	1073.65	1074.63	1074.63	1056.62	1057.61	1075.64	1057.63	1058.61	559.32	546.33	537.82	538.32	9
21	101.11	2490.30	2472.29	2473.28	2462.31	2444.30	2445.28	2507.33	2489.32	2490.30	2506.32	1245.65	1231.65	1254.17	K	989.55	971.53	972.52	963.57	945.56	946.54	946.54	928.53	929.51	947.55	929.54	930.52	495.27	482.28	473.77	474.27	8
22	136.08	2653.37	2635.36	2636.34	2625.37	2607.36	2608.35	2670.39	2652.38	2653.37	2669.39	1327.18	1313.19	1335.70	Y	861.45	843.44	844.42	835.47	817.46	818.44	818.44	800.43	801.42	819.45	801.44	802.43	431.23	418.24	409.72	410.23	7
23	86.10	2766.45	2748.44	2749.42	2738.46	2720.45	2721.43	2783.48	2765.47	2766.45	2782.47	1383.73	1369.73	1392.24	L	698.39	680.38	681.36	672.41	654.40	655.38	655.38	637.37	638.35	656.39	638.38	639.36	349.69	336.70	328.19	328.69	6
24	87.06	2880.49	2862.48	2863.47	2852.50	2834.49	2835.47	2897.52	2879.51	2880.49	2896.51	1440.75	1426.75	1449.26	N	585.30	567.29	568.28	559.32	541.31	542.31	542.31	524.29	525.27	543.30	525.29	526.28	293.15	280.16	271.65	272.15	5
25	60.04	2967.53	2949.52	2950.50	2939.53	2921.52	2922.50	2984.55	2966.54	2967.53	2983.55	1484.26	1470.27	1492.78	S	471.26	453.25	454.23	445.28	427.27	428.25	428.25	410.24	411.23	429.26	411.25	412.23	236.13	223.14	214.63	215.13	4
26	86.10	3080.61	3062.59	3063.58	3052.62	3034.60	3035.59	3097.64	3079.63	3080.61	3096.63	1540.81	1526.81	1549.32	I	384.23	366.22	367.20	358.25	340.24	341.22	341.22	323.21	324.19	342.23	324.22	325.20	192.61	179.62	171.11	171.61	3
27	86.10	3193.69	3175.68	3176.66	3165.70	3147.69	3148.67	3210.72	3192.71	3193.69	3209.71	1597.35	1583.35	1605.86	L	271.14	253.13	254.12	245.16	227.17	228.14	228.14	210.13	211.11	229.15	211.14	212.12	136.07	123.08	114.57	115.07	2
28	86.08														N(-.98)	158.06	140.05	141.03	132.08	114.07	115.05	115.05	97.04	98.03	116.06	98.05	99.03	79.53	66.54	58.03	58.53	1



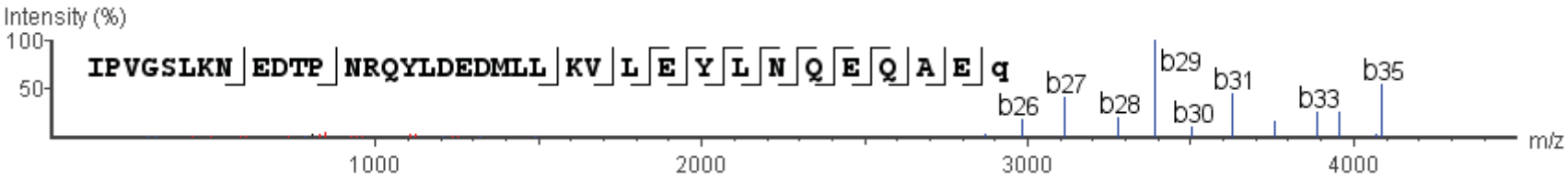
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNEDTPNRQYLDEDM(+15.99)LLKVLEYLNQEQAEQGREHL	78.51	3.8	969.0905	5



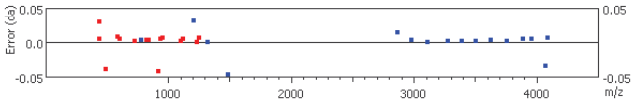
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	86.10	114.09	96.08	97.06	86.10	68.09	69.07	131.12	113.11	114.09	130.11	57.55	43.55	66.06	I																	41
2	70.07	211.14	193.13	194.12	183.15	165.14	166.12	228.17	210.16	211.14	227.16	106.07	92.07	114.59	P	4754.30	4736.29	4737.27	4728.31	4710.30	4711.29	4711.29	4693.28	4694.26	4712.30	4694.29	4695.27	2377.65	2364.66	2356.14	2356.65	40
3	72.08	310.21	292.20	293.19	282.22	264.21	265.19	327.24	309.23	310.21	326.23	155.61	141.61	164.12	V	4657.24	4639.23	4640.22	4631.26	4613.25	4614.24	4614.24	4596.23	4597.21	4615.24	4597.23	4598.22	2329.12	2316.13	2307.62	2308.12	39
4	30.03	367.23	349.22	350.21	339.24	321.23	322.21	384.26	366.25	367.23	383.25	184.12	170.12	192.63	G	4558.17	4540.16	4541.15	4532.19	4514.18	4515.17	4515.17	4497.16	4498.14	4516.18	4498.17	4499.15	2279.59	2266.60	2258.08	2258.59	38
5	60.04	454.27	436.26	437.24	426.27	408.26	409.24	471.29	453.28	454.27	470.29	227.63	213.64	236.15	S	4501.15	4483.14	4484.13	4475.17	4457.16	4458.15	4458.15	4440.14	4441.12	4459.15	4441.14	4442.13	2251.08	2238.09	2229.57	2230.08	37
6	86.10	567.35	549.34	550.32	539.36	521.35	522.33	584.38	566.37	567.35	583.37	284.18	270.18	292.69	L	4414.12	4396.11	4397.09	4388.14	4370.13	4371.11	4371.11	4353.10	4354.09	4372.12	4354.11	4355.10	2207.56	2194.57	2186.06	2186.56	36
7	101.11	695.45	677.43	678.42	667.45	649.44	650.42	712.47	694.46	695.45	711.46	348.22	334.23	356.74	K	4301.04	4283.03	4284.01	4275.05	4257.05	4258.03	4258.03	4240.02	4241.00	4259.04	4241.03	4242.01	2151.02	2138.03	2129.52	2130.02	35
8	87.06	809.49	791.48	792.46	781.49	763.48	764.47	826.52	808.50	809.49	825.51	405.24	391.25	413.76	N	4172.94	4154.93	4155.91	4146.97	4128.95	4129.94	4129.94	4111.92	4112.91	4130.94	4112.93	4113.92	2086.97	2073.98	2065.47	2065.97	34
9	102.06	938.53	920.52	921.50	910.54	892.53	893.51	955.56	937.55	938.53	954.55	469.77	455.77	478.28	E	4058.90	4040.89	4041.87	4032.92	4014.91	4015.89	4015.89	3997.88	3998.87	4016.90	3998.89	3999.87	2029.95	2016.96	2008.45	2008.95	33
10	88.04	1053.56	1035.55	1036.53	1025.56	1007.55	1008.54	1070.58	1052.57	1053.56	1069.58	527.28	513.28	535.79	D	3929.86	3911.85	3912.83	3903.88	3885.87	3886.85	3886.85	3868.84	3869.82	3887.86	3869.85	3870.83	1965.43	1952.44	1943.92	1944.43	32
11	74.06	1154.61	1136.60	1137.58	1126.61	1108.60	1109.58	1171.63	1153.62	1154.61	1170.62	577.80	563.81	586.32	T	3814.83	3796.82	3797.80	3788.85	3770.84	3771.83	3771.83	3753.81	3754.80	3772.83	3754.82	3755.80	1907.91	1894.92	1886.41	1886.92	31
12	70.07	1251.66	1233.65	1234.63	1223.66	1205.65	1206.64	1268.69	1250.67	1251.66	1267.68	626.33	612.33	634.84	P	3713.78	3695.77	3696.75	3687.80	3669.79	3670.78	3670.78	3652.76	3653.75	3671.78	3653.77	3654.76	1857.39	1844.40	1835.89	1836.39	30
13	87.06	1365.70	1347.69	1348.67	1337.71	1319.70	1320.68	1382.73	1364.72	1365.70	1381.72	683.35	669.35	691.86	N	3616.73	3598.72	3599.70	3590.75	3572.74	3573.72	3573.72	3555.71	3556.70	3574.73	3556.72	3557.70	1808.86	1795.87	1787.36	1787.87	29
14	129.11	1521.80	1503.79	1504.78	1493.81	1475.80	1476.78	1538.83	1520.82	1521.80	1537.82	761.40	747.40	769.91	R	3502.69	3484.68	3485.66	3476.71	3458.70	3459.68	3459.68	3441.67	3442.65	3460.69	3442.68	3443.66	1751.84	1738.85	1730.34	1730.84	28
15	101.07	1649.86	1631.85	1632.83	1621.87	1603.86	1604.84	1666.89	1648.88	1649.86	1665.88	825.43	811.38	833.94	Q	3346.58	3328.57	3329.56	3320.61	3302.59	3303.58	3303.58	3285.57	3286.55	3304.59	3286.58	3287.56	1673.79	1660.80	1652.29	1652.79	27
16	136.08	1812.92	1794.91	1795.90	1784.93	1766.92	1767.90	1829.95	1811.94	1812.92	1828.94	906.96	892.96	915.48	Y	3218.53	3200.52	3201.50	3192.55	3174.54	3175.52	3175.52	3157.51	3158.49	3176.53	3158.52	3159.50	1609.76	1596.77	1588.26	1588.76	26
17	86.10	1926.01	1908.00	1908.98	1898.01	1880.00	1880.99	1943.04	1925.02	1926.01	1942.03	963.50	949.51	972.02	L	3055.46	3037.45	3038.44	3029.48	3011.47	3012.46	3012.46	2994.45	2995.43	3013.46	2995.45	2996.44	1528.23	1515.24	1506.73	1507.23	25
18	88.04	2041.04	2023.02	2024.01	2013.04	1995.03	1996.01	2058.06	2040.05	2041.04	2057.05	1021.02	1007.02	1029.53	D	2942.38	2924.37	2925.35	2916.40	2898.39	2899.37	2899.37	2881.36	2882.35	2900.38	2882.37	2883.35	1471.69	1458.70	1450.19	1450.69	24
19	102.06	2170.08	2152.07	2153.05	2142.08	2124.07	2125.06	2187.10	2169.09	2170.08	2186.10	1085.54	1071.54	1094.05	E	2827.35	2809.34	2810.32	2801.37	2783.36	2784.35	2784.35	2766.33	2767.32	2785.35	2767.34	2768.33	1414.18	1401.19	1392.67	1393.18	23
20	88.04	2285.10	2267.09	2268.08	2257.11	2239.10	2240.08	2302.13	2284.12	2285.10	2301.12	1143.05	1129.06	1151.57	D	2698.31	2680.30	2681.28	2672.33	2654.32	2655.30	2655.30	2637.29	2638.28	2656.31	2638.30	2639.28	1349.65	1336.66	1328.15	1328.66	22
21	120.04	2432.14	2414.12	2415.11	2404.14	2386.13	2387.11	2449.16	2431.15	2432.14	2448.16	1216.57	1202.57	1225.08	M(+15.99)	2583.28	2565.27	2566.26	2557.30	2539.29	2540.28	2540.28	2522.27	2523.26	2541.28	2523.27	2524.26	1292.14	1279.15	1270.64	1271.14	21
22	86.10	2545.22	2527.21	2528.19	2517.22	2499.21	2500.20	2562.25	2544.24	2545.22	2561.24	1273.11	1259.11	1281.62	L	2436.25	2418.24	2419.22	2410.27	2392.26	2393.25	2393.25	2375.23	2376.22	2394.25	2376.24	2377.23	1218.63	1205.64	1197.12	1197.63	20
23	86.10	2658.30	2640.29	2641.28	2630.31	2612.30	2613.28	2675.33	2657.30	2658.30	2674.32	1329.65	1315.65	1338.17	L	2323.17	2305.16	2306.14	2297.19	2279.18	2280.16	2280.16	2262.15	2263.13	2281.17	2263.16	2264.14	1162.08	1149.09	1140.58	1141.08	19
24	101.11	2786.40	2768.39	2769.37	2758.40	2740.39	2741.38	2803.43	2785.41	2786.40	2802.42	1393.70	1379.70	1402.21	K	2210.08	2192.07	2193.06	2184.10	2166.09	2167.08	2167.08	2149.07	2150.05	2168.09	2150.07	2151.06	1105.54	1092.55	1084.04	1084.54	18
25	72.08	2885.47	2867.46	2868.44	2857.47	2839.46	2840.44	2902.49	2884.48	2885.47	2901.49	1443.23	1429.24	1451.75	V	2081.99	2063.98	2064.96	2056.01	2038.00	2038.98	2038.98	2020.97	2021.96	2039.99	2021.98	2022.96	1041.49	1028.51	1019.99	1020.50	17
26	86.10	2998.55	2980.54	2981.52	2970.56	2952.55	2953.53	3015.58	2997.57	2998.55	3014.57	1499.78	1485.78	1508.29	L	1982.92	1964.91	1965.89	1956.94	1938.93	1939.91	1939.91	1921.90	1922.89	1940.92	1922.91	1923.89	991.96	978.97	970.46	970.96	16
27	102.06	3127.58	3109.58	3110.57	3099.60	3081.59	3082.57	3144.62	3126.61	3127.58	3143.61	1564.30	1550.30	1572.81	E	1869.84	1851.87	1852.81	1843.86	1825.85	1826.83	1826.83	1808.82	1809.80	1827.84	1809.83	1810.81	935.42	922.43	913.91	914.42	15
28	136.08	3290.66	3272.65	3273.63	3262.66	3244.65	3245.64	3307.68	3289.67	3290.66	3306.68	1645.83	1631.83	1654.34	Y	1740.79	1722.78	1723.77	1714.82	1696.80	1697.79	1697.79	1679.78	1680.76	1698.80	1680.78	1681.77	870.90	857.91	849.39	849.90	14
29	86.10	3403.74	3385.73	3386.71	3375.75	3357.74	3358.72	3420.77	3402.76	3403.74	3419.76	1702.37	1688.37	1710.88	L	1577.73	1559.72	1560.70	1551.75	1533.74	1534.72	1534.72	1516.71	1517.70	1535.73	1517.72	1518.70	789.37	776.38	767.86	768.37	13
30	87.06	3517.78	3499.77	3500.76	3489.79	3471.78	3472.76	3534.81	3516.80	3517.78	3533.80	1759.39	1745.39	1767.91	N	1464.65	1446.64	1447.62	1438.67	1420.66	1421.64	1421.64	1403.63	1404.61	1422.65	1404.64	1405.62	732.82	719.83	711.32	711.82	12
31	101.07	3645.84	3627.83	3628.82	3617.85	3599.84	3600.82	3662.87	3644.86	3645.84	3661.86	1823.42	1809.42	1831.93	Q	1350.60	1332.59	1333.58	1324.62	1306.61	1307.60	1307.60	1289.59	1290.57	1308.60	1290.59	1291.58	675.80	662.81	654.30	654.80	11
32	102.06	3774.89	3756.87	3757.86	3746.89	3728.88	3729.86	3791.91	3773.90	3774.89	3790.90	1887.94	1873.95	1896.46	E	1222.54	1204.53	1205.52	1196.57	1178.55	1179.54	1179.54	1161.53	1162.51	1180.55	1162.54	1163.52	611.77	598.78	590.27	590.77	10
33	101.07	3902.94	3884.93	3885.92	3874.95	3856.94	3857.92	3919.97	3901.96	3902.94	3918.96	1951.97	1937.97	1960.49	Q	1093.50	1075.49	1076.48	1067.51	1049.51	1050.50	1050.50	1032.49	1033.47	1051.50	1033.49	1034.48	547.25	534.26	525.75	526.25	9
34	44.05	3973.98	3955.97	3956.95	3945.99	3927.98	3928.96	3991.01	3973.00	3973.98	3990.00	1987.49	1973.49	1996.00	A	965.44	947.43	948.42	939.47	921.45	922.44	922.44	904.43	905.41	923.45	905.43	906.42	483.22	470.23	461.72	462.22	8
35	102.06	4103.02	4085.01	4086.00	4075.03	4057.02	4058.00	4120.05	4102.03	4103.02	4119.04	2052.01	2038.01	2060.53	E	894.41	876.40	877.38	868.42	850.42	851.40	851.40	833.39	834.37	852.41	834.40	835.38	447.70	434.71	426.20	426.70	7
36	101.07	4231.08	4213.07	4214.06	4203.09	4185.08	4186.06	4248.11	4230.10	4231.08	4247.10	2116.04	2102.04	2124.55	Q	765.36	747.35	748.34	739.38	721.37	722.36	722.36	704.35	705.33	723.37	705.35	706.34	383.18	370.19	361.68	362.18	6
37	30.03	4288.10	4270.09	4271.08	4260.11	4242.10	4243.08	4305.13	4287.12	4288.10	4304.12	2144.55	2130.55	2153.07	G	637.31	619.29	620.28	611.33	593.32	594.30	594.30	576.29	577.27	595.31	577.30	578.28	319.15	306.16	297.65	298.15	5
38	129.11	4444.20	4426.19	4427.18	4416.21	4398.20	4399.18	4461.23	4443.22	4444.20	4460.22	2222.60	2208.60	2231.12	R	580.28	562.27	563.26	554.30	536.29	537.28	537.28	519.27	520.25	538.29	520.27	521.26	290.64	277.65	269.14	269.64	4
39	102.06	4573.25	4555.24	4556.22	4545.25	4527.24	4528.23	4590.27	4572.26	4573.25	4589.27	2287.12	2273.13	2295.64	E	424.18	406.17	407.16	398.20	380.19	381.18	381.18	363.17	364.15	382.18	364.17	365.16	212.59	199.60	191.09	191.59	3
40	110.07	4710.30	4692.30	4693.28	4682.31	4664.30	4665.28	4727.33	4709.32	4710.30	4726.33	2355.65	2341.66	2364.17	H	295.14	277.13	278.11	269.16	251.15	252.13	252.13	234.12	235.11	253.14	235.13	236.11	148.07	135.08	126.57	127.07	2
41	86.10														L	158.08	140.07	141.05	132.10	114.09	115.07	115.07	97.06	98.05	116.08	98.07	99.06	79.54	66.55	58.04	58.54	1



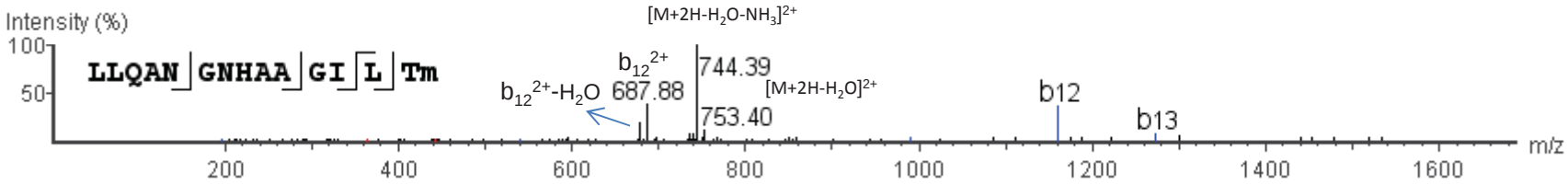
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNEDTPNRQYLDEDMLLKVLEYLNQEQAEQ(-.98).G	82.92	-13	1058.784	4



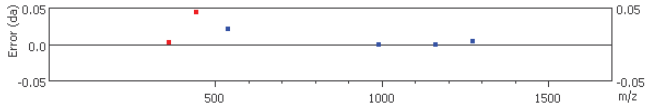
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	86.10	114.09	96.08	97.06	86.10	68.09	69.07	131.12	113.11	114.09	130.11	57.55	43.55	66.06	I																	36
2	70.07	211.14	193.13	194.12	183.15	165.14	166.12	228.17	210.16	211.14	227.16	106.07	92.07	114.59	P	4145.02	4127.01	4127.99	4119.04	4101.03	4102.01	4102.01	4084.00	4084.98	4103.02	4085.01	4085.99	2073.01	2060.02	2051.51	2052.01	35
3	72.08	310.21	292.20	293.19	282.22	264.21	265.19	327.24	309.23	310.21	326.23	155.61	141.61	164.12	V	4047.96	4029.95	4030.94	4021.99	4003.97	4004.96	4004.96	3986.95	3987.93	4005.97	3987.96	3988.94	2024.48	2011.49	2002.98	2003.48	34
4	30.03	367.23	349.22	350.21	339.24	321.23	322.21	384.26	366.25	367.23	383.25	184.12	170.12	192.63	G	3948.90	3930.89	3931.87	3922.92	3904.91	3905.89	3905.89	3887.88	3888.86	3906.90	3888.89	3889.87	1974.95	1961.96	1953.44	1953.95	33
5	60.04	454.27	436.26	437.24	426.27	408.26	409.24	471.29	453.28	454.27	470.29	227.63	213.64	236.15	S	3891.87	3873.86	3874.85	3865.90	3847.88	3848.87	3848.87	3830.86	3831.84	3849.88	3831.87	3832.85	1946.44	1933.45	1924.93	1925.44	32
6	86.10	567.35	549.34	550.32	539.36	521.35	522.33	584.38	566.37	567.35	583.37	284.18	270.18	292.69	L	3804.84	3786.83	3787.82	3778.86	3760.85	3761.84	3761.84	3743.83	3744.81	3762.84	3744.83	3745.82	1902.92	1889.93	1881.42	1881.92	31
7	101.11	695.45	677.43	678.42	667.45	649.44	650.42	712.47	694.46	695.45	711.46	348.22	334.23	356.74	K	3691.76	3673.75	3674.73	3665.78	3647.77	3648.75	3648.75	3630.74	3631.73	3649.76	3631.75	3632.73	1846.38	1833.39	1824.88	1825.38	30
8	87.06	809.49	791.48	792.46	781.49	763.48	764.47	826.52	808.50	809.49	825.51	405.24	391.25	413.76	N	3563.66	3545.65	3546.64	3537.68	3519.67	3520.66	3520.66	3502.65	3503.63	3521.67	3503.65	3504.64	1782.33	1769.34	1760.83	1761.33	29
9	102.06	938.53	920.52	921.50	910.54	892.53	893.51	955.56	937.55	938.53	954.55	469.77	455.77	478.28	E	3449.62	3431.61	3432.59	3423.64	3405.63	3406.61	3406.61	3388.60	3389.59	3407.62	3389.61	3390.59	1725.31	1712.32	1703.81	1704.31	28
10	88.04	1053.56	1035.55	1036.53	1025.56	1007.55	1008.54	1070.58	1052.57	1053.56	1069.58	527.28	513.28	535.79	D	3320.58	3302.57	3303.55	3294.60	3276.59	3277.57	3277.57	3259.56	3260.54	3278.58	3260.57	3261.55	1660.79	1647.80	1639.29	1639.79	27
11	74.06	1154.61	1136.60	1137.58	1126.61	1108.60	1109.58	1171.63	1153.62	1154.61	1170.62	577.80	563.81	586.32	T	3205.55	3187.54	3188.52	3179.57	3161.56	3162.54	3162.54	3144.53	3145.52	3163.55	3145.54	3146.53	1603.28	1590.29	1581.77	1582.28	26
12	70.07	1251.66	1233.65	1234.63	1223.66	1205.62	1206.64	1268.69	1250.67	1251.66	1267.68	626.33	612.33	634.84	P	3104.50	3086.49	3087.48	3078.52	3060.51	3061.50	3061.50	3043.49	3044.47	3062.50	3044.49	3045.48	1552.75	1539.76	1531.25	1531.75	25
13	87.06	1365.70	1347.69	1348.67	1337.71	1319.70	1320.68	1382.73	1364.72	1365.70	1381.72	683.35	669.35	691.86	N	3007.45	2989.44	2990.42	2981.47	2963.46	2964.44	2964.44	2946.43	2947.42	2965.45	2947.44	2948.43	1504.23	1491.24	1482.72	1483.23	24
14	129.11	1521.80	1503.79	1504.78	1493.81	1475.80	1476.78	1538.83	1520.82	1521.80	1537.82	761.40	747.40	769.91	R	2893.41	2875.40	2876.38	2867.43	2849.42	2850.40	2850.40	2832.39	2833.37	2851.41	2833.40	2834.38	1447.20	1434.21	1425.70	1426.20	23
15	101.07	1649.86	1631.85	1632.83	1621.87	1603.86	1604.84	1666.89	1648.88	1649.86	1665.88	825.43	811.43	833.94	Q	2737.31	2719.30	2720.28	2711.33	2693.32	2694.30	2694.30	2676.29	2677.27	2695.31	2677.30	2678.28	1369.15	1356.16	1347.65	1348.15	22
16	136.08	1812.92	1794.91	1795.90	1784.93	1766.92	1767.90	1829.95	1811.94	1812.92	1828.94	906.96	892.96	915.48	Y	2609.25	2591.24	2592.22	2583.27	2565.26	2566.24	2566.24	2548.23	2549.21	2567.25	2549.24	2550.22	1305.12	1292.13	1283.62	1284.12	21
17	86.10	1926.01	1908.00	1908.98	1898.01	1880.00	1880.99	1943.04	1925.02	1926.01	1942.03	963.50	949.51	972.02	I	2446.18	2428.17	2429.16	2420.21	2402.19	2403.18	2403.18	2385.17	2386.15	2404.19	2386.18	2387.16	1223.59	1210.60	1202.09	1202.59	20
18	88.04	2041.04	2023.02	2024.01	2013.04	1995.03	1996.01	2058.06	2040.05	2041.04	2057.05	1021.02	1007.02	1029.53	D	2333.10	2315.09	2316.07	2307.12	2289.11	2290.09	2290.09	2272.08	2273.07	2291.10	2273.09	2274.08	1167.05	1154.06	1145.55	1146.05	19
19	102.06	2170.08	2152.07	2153.05	2142.08	2124.07	2125.06	2187.10	2169.09	2170.08	2186.10	1085.54	1071.54	1094.05	E	2218.07	2200.06	2201.05	2192.09	2174.08	2175.07	2175.07	2157.06	2158.04	2176.08	2158.06	2159.05	1109.54	1096.55	1088.03	1088.54	18
20	88.04	2285.10	2267.09	2268.08	2257.11	2239.10	2240.08	2302.13	2284.12	2285.10	2301.12	1143.05	1129.06	1151.57	D	2089.03	2071.02	2072.00	2063.05	2045.04	2046.02	2046.02	2028.01	2029.00	2047.03	2029.02	2030.01	1045.02	1032.03	1023.51	1024.02	17
21	104.05	2416.15	2398.14	2399.12	2388.15	2370.14	2371.12	2433.17	2415.16	2416.15	2432.16	1208.57	1194.58	1217.09	M	1974.00	1955.99	1956.98	1948.02	1930.01	1931.00	1931.00	1912.99	1913.97	1932.01	1914.00	1914.98	987.50	974.51	966.00	966.50	16
22	86.10	2529.23	2511.22	2512.20	2501.23	2483.22	2484.21	2546.26	2528.25	2529.23	2545.25	1265.11	1251.12	1273.63	L	1842.96	1824.95	1825.94	1816.98	1798.97	1799.96	1799.96	1781.95	1782.93	1800.97	1782.95	1783.94	921.98	908.99	900.48	900.98	15
23	86.10	2642.31	2624.30	2625.29	2614.32	2596.31	2597.29	2659.34	2641.33	2642.31	2658.33	1321.66	1307.66	1330.17	L	1729.88	1711.87	1712.85	1703.90	1685.89	1686.87	1686.87	1668.86	1669.85	1687.88	1669.87	1670.85	865.44	852.45	843.94	844.44	14
24	101.11	2770.41	2752.40	2753.38	2742.41	2724.40	2725.39	2787.44	2769.42	2770.41	2786.43	1385.70	1371.71	1394.22	K	1616.80	1598.78	1599.77	1590.82	1572.81	1573.79	1573.79	1555.78	1556.76	1574.80	1556.79	1557.77	808.90	795.91	787.39	787.90	13
25	72.08	2869.46	2851.47	2852.45	2841.48	2823.47	2824.45	2886.50	2868.49	2869.46	2885.50	1435.24	1421.24	1443.75	V	1488.70	1470.69	1471.67	1462.72	1444.71	1445.69	1445.69	1427.68	1428.67	1446.70	1428.69	1429.68	744.85	731.86	723.35	723.85	12
26	86.10	2982.56	2964.55	2965.53	2954.57	2936.56	2937.54	2999.59	2981.58	2982.56	2998.58	1491.83	1477.78	1500.29	L	1389.63	1371.62	1372.61	1363.65	1345.64	1346.63	1346.63	1328.62	1329.60	1347.63	1329.62	1330.61	695.32	682.33	673.81	674.32	11
27	102.06	3111.60	3093.59	3094.58	3083.61	3065.60	3066.58	3128.63	3110.62	3111.60	3127.62	1556.30	1542.30	1564.82	E	1276.55	1258.54	1259.52	1250.56	1232.56	1233.54	1233.54	1215.53	1216.51	1234.55	1216.54	1217.52	638.77	625.78	617.27	617.77	10
28	136.08	3274.66	3256.66	3257.64	3246.67	3228.66	3229.65	3291.69	3273.68	3274.66	3290.69	1637.83	1623.84	1646.35	Y	1147.51	1129.49	1130.48	1121.52	1103.52	1104.50	1104.50	1086.49	1087.47	1105.51	1087.50	1088.48	574.25	561.26	552.75	553.25	9
29	86.10	3387.75	3369.74	3370.72	3359.76	3341.75	3342.73	3404.78	3386.77	3387.75	3403.77	1694.38	1680.38	1702.89	L	984.44	966.43	967.42	958.46	940.45	941.43	941.43	923.43	924.41	942.44	924.47	925.42	492.76	479.73	471.22	471.72	8
30	87.06	3501.79	3483.78	3484.77	3473.80	3455.79	3456.77	3518.82	3500.81	3501.79	3517.81	1751.40	1737.40	1759.91	N	871.36	853.35	854.33	845.38	827.37	828.35	828.35	810.34	811.32	829.36	811.35	812.33	436.18	423.19	414.68	415.18	7
31	101.07	3629.85	3611.84	3612.83	3601.86	3583.85	3584.83	3646.88	3628.87	3629.85	3645.87	1815.43	1801.43	1823.94	Q	757.32	739.30	740.29	731.33	713.33	714.31	714.31	696.30	697.28	715.32	697.31	698.29	379.16	366.17	357.65	358.16	6
32	102.06	3758.89	3740.88	3741.87	3730.90	3712.89	3713.87	3775.92	3757.91	3758.89	3774.91	1879.95	1865.95	1888.46	E	629.26	611.25	612.23	603.27	585.27	586.24	586.24	568.24	569.22	587.26	569.25	570.23	315.13	302.14	293.63	294.13	5
33	101.07	3886.95	3868.94	3869.93	3858.96	3840.95	3841.93	3903.98	3885.97	3886.95	3902.97	1943.98	1929.98	1952.49	Q	500.21	482.20	483.19	474.23	456.22	457.21	457.21	439.20	440.18	458.22	440.18	441.19	250.61	237.62	229.10	229.61	4
34	44.05	3957.99	3939.98	3940.96	3930.00	3911.99	3912.97	3975.02	3957.01	3957.99	3974.01	1979.50	1965.50	1988.01	A	372.16	354.14	355.13	346.18	328.17	329.15	329.15	311.14	312.12	330.16	312.15	313.13	186.58	173.59	165.07	165.58	3
35	102.06	4087.03	4069.02	4070.04	4059.04	4041.03	4042.01	4104.06	4086.05	4087.03	4103.05	2044.02	2030.02	2052.53	E	301.12	283.11	284.09	275.14	257.13	258.11	258.11	240.10	241.08	259.12	241.11	242.09	151.06	138.07	129.56	130.06	2
36	100.09														Q(-.98)	172.08	154.07	155.05	146.10	128.09	129.07	129.07	111.06	112.04	130.08	112.07	113.05	86.54	73.55	65.03	65.54	1



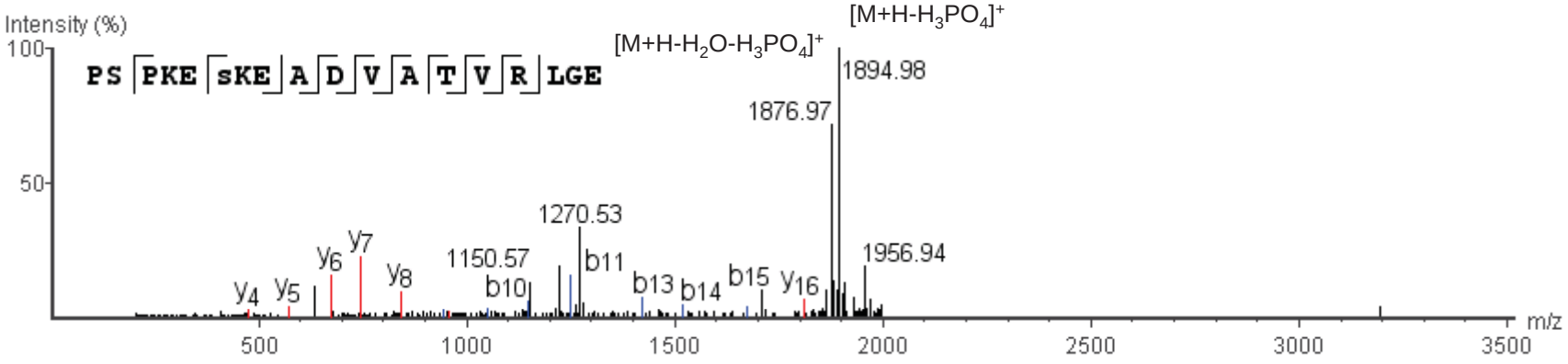
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Orexin	O55241|OREX_MOUSE		R.LLQANGNHAAGILTM(-.98).G	50.58	4.6	761.9151	2



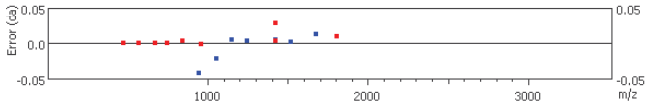
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	86.10	114.09	96.08	97.06	86.10	68.09	69.07	131.12	113.11	114.09	130.11	57.55	43.55	66.06	L																	15
2	86.10	227.18	209.17	210.15	199.18	181.17	182.15	244.20	226.19	227.18	243.20	114.09	100.09	122.60	L	1435.72	1417.70	1418.69	1409.74	1391.73	1392.71	1392.71	1374.70	1375.68	1393.72	1375.71	1376.69	718.36	705.37	696.85	697.36	14
3	101.07	355.23	337.22	338.21	327.24	309.23	310.21	372.26	354.25	355.23	371.25	178.12	164.12	186.63	Q	1322.63	1304.62	1305.60	1296.65	1278.64	1279.62	1279.62	1261.61	1262.60	1280.63	1262.62	1263.61	661.82	648.83	640.31	640.82	13
4	44.05	426.27	408.26	409.24	398.28	380.27	381.25	443.30	425.29	426.27	442.29	213.64	199.64	222.15	A	1194.57	1176.56	1177.55	1168.59	1150.58	1151.57	1151.57	1133.56	1134.54	1152.57	1134.56	1135.55	597.79	584.80	576.28	576.79	12
5	87.06	540.29	522.30	523.29	512.32	494.31	495.29	557.34	539.33	540.29	556.33	270.66	256.66	279.17	N	1123.54	1105.52	1106.51	1097.56	1079.55	1080.53	1080.53	1062.52	1063.50	1081.54	1063.53	1064.51	562.27	549.28	540.76	541.27	11
6	30.03	597.34	579.33	580.31	569.34	551.33	552.31	614.36	596.35	597.34	613.36	299.17	285.17	307.68	G	1009.49	991.48	992.47	983.51	965.50	966.49	966.49	948.48	949.46	967.49	949.48	950.47	505.25	492.26	483.74	484.25	10
7	87.06	711.38	693.37	694.35	683.38	665.37	666.36	728.41	710.40	711.38	727.40	356.19	342.19	364.70	N	952.47	934.46	935.44	926.49	908.48	909.46	909.46	891.45	892.44	910.47	892.46	893.45	476.74	463.75	455.23	455.74	9
8	110.07	848.44	830.43	831.41	820.44	802.43	803.42	865.46	847.45	848.44	864.46	424.72	410.72	433.23	H	838.43	820.42	821.40	812.45	794.44	795.42	795.42	777.41	778.39	796.43	778.42	779.40	419.71	406.72	398.21	398.71	8
9	44.05	919.47	901.46	902.45	891.48	873.47	874.45	936.50	918.49	919.47	935.49	460.24	446.24	468.75	A	701.37	683.36	684.34	675.39	657.38	658.36	658.36	640.35	641.34	659.37	641.36	642.34	351.18	338.19	329.68	330.19	7
10	44.05	990.51	972.50	973.49	962.52	944.51	945.49	1007.54	989.53	990.51	1006.53	495.76	481.76	504.27	A	630.33	612.32	613.31	604.35	586.34	587.33	587.33	569.32	570.30	588.33	570.32	571.31	315.67	302.68	294.16	294.67	6
11	30.03	1047.53	1029.52	1030.51	1019.54	1001.53	1002.51	1064.56	1046.55	1047.53	1063.55	524.27	510.27	532.78	G	559.29	541.28	542.27	533.32	515.31	516.29	516.29	498.28	499.26	517.30	499.29	500.27	280.15	267.16	258.64	259.15	5
12	86.10	1160.62	1142.61	1143.59	1132.62	1114.61	1115.60	1177.64	1159.63	1160.62	1176.64	580.81	566.81	589.32	I	502.27	484.26	485.25	476.29	458.28	459.27	459.27	441.26	442.24	460.27	442.26	443.20	251.64	238.65	230.13	230.64	4
13	86.10	1273.70	1255.69	1256.67	1245.71	1227.70	1228.68	1290.73	1272.72	1273.70	1289.72	637.35	623.35	645.86	L	389.19	371.18	372.16	363.21	345.20	346.18	346.18	328.17	329.16	347.19	329.18	330.16	195.09	182.11	173.59	174.10	3
14	74.06	1374.75	1356.74	1357.72	1346.75	1328.74	1329.73	1391.78	1373.77	1374.75	1390.77	687.87	673.88	696.39	T	276.11	258.09	259.08	250.13	232.12	233.10	233.10	215.09	216.07	234.11	216.10	217.08	138.55	125.56	117.05	117.55	2
15	103.07														M(-.98)	175.06	157.05	158.03	149.08	131.07	132.05	132.05	114.04	115.02	133.06	115.05	116.03	88.03	75.04	66.53	67.03	1



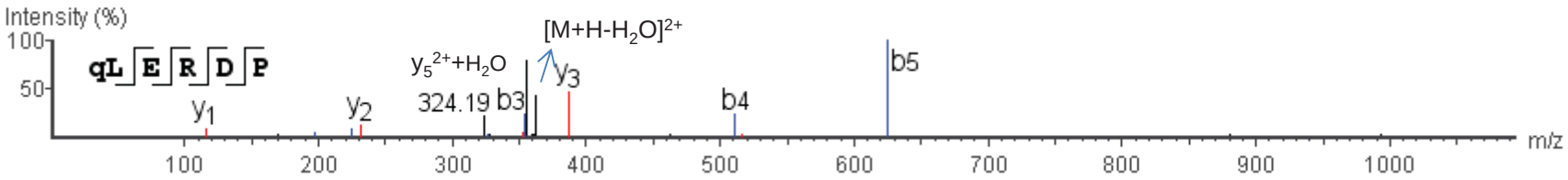
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
secretogranin-1	P16014|SCG1_MOUSE		R.PSPKES(+79.97)KEADVATVRLGE.K	51.71	0.8	664.9933	3



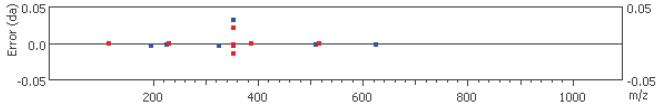
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	70.07	98.06	80.05	81.03	70.07	52.06	53.04	115.09	97.08	98.06	114.08	49.53	35.53	58.04	P																	18
2	60.04	185.09	167.08	168.07	157.10	139.09	140.07	202.12	184.11	185.09	201.11	93.05	79.05	101.56	S	1921.89	1903.88	1904.87	1895.91	1877.90	1878.89	1878.89	1860.88	1861.86	1879.90	1861.88	1862.87	961.45	948.46	939.94	940.45	17
3	70.07	282.15	264.13	265.12	254.15	236.14	237.12	299.17	281.16	282.15	298.16	141.57	127.58	150.09	P	1834.86	1816.85	1817.83	1808.87	1790.87	1791.86	1791.86	1773.84	1774.83	1792.86	1774.85	1775.84	917.93	904.94	896.43	896.93	16
4	101.11	410.24	392.23	393.21	382.25	364.23	365.22	427.27	409.26	410.24	426.26	205.62	191.62	214.13	K	1737.81	1719.80	1720.78	1711.83	1693.82	1694.80	1694.80	1676.79	1677.78	1695.81	1677.80	1678.78	869.40	856.41	847.90	848.41	15
5	102.06	539.28	521.27	522.26	511.29	493.28	494.26	556.31	538.30	539.28	555.30	270.14	256.14	278.65	E	1609.71	1591.70	1592.69	1583.73	1565.72	1566.71	1566.71	1548.70	1549.68	1567.72	1549.71	1550.69	805.36	792.37	783.85	784.36	14
6	140.01	706.28	688.27	689.26	678.29	660.28	661.26	723.31	705.30	706.28	722.30	353.64	339.64	362.16	S(+79.97)	1480.67	1462.66	1463.64	1454.69	1436.68	1437.67	1437.67	1419.65	1420.63	1438.67	1420.63	1421.65	740.84	727.85	719.33	719.84	13
7	101.11	834.38	816.37	817.35	806.38	788.37	789.36	851.41	833.40	834.38	850.40	417.69	403.69	426.20	K	1313.67	1295.66	1296.64	1287.69	1269.68	1270.66	1270.66	1252.65	1253.64	1271.67	1253.66	1254.64	657.33	644.35	635.83	636.34	12
8	102.06	963.42	945.45	946.40	935.43	917.42	918.40	980.45	962.44	963.42	979.44	482.21	468.21	490.72	E	1185.57	1167.56	1168.55	1159.60	1141.58	1142.57	1142.57	1124.56	1125.54	1143.58	1125.57	1126.55	593.29	580.30	571.78	572.29	11
9	44.05	1034.46	1016.45	1017.43	1006.46	988.45	989.44	1051.51	1033.48	1034.46	1050.48	517.73	503.73	526.24	A	1056.53	1038.52	1039.51	1030.55	1012.54	1013.53	1013.53	995.52	996.50	1014.53	996.52	997.51	528.77	515.78	507.26	507.77	10
10	88.04	1149.48	1131.48	1132.46	1121.49	1103.48	1104.46	1166.51	1148.50	1149.48	1165.51	575.24	561.25	583.76	D	985.49	967.48	968.47	959.52	941.51	942.49	942.49	924.48	925.46	943.50	925.49	926.47	493.25	480.26	471.74	472.25	9
11	72.08	1248.55	1230.54	1231.53	1220.56	1202.55	1203.53	1265.58	1247.57	1248.55	1264.57	624.78	610.78	633.29	V	870.47	852.46	853.44	844.48	826.48	827.46	827.46	809.45	810.43	828.47	810.46	811.44	435.73	422.74	414.23	414.73	8
12	44.05	1319.59	1301.58	1302.57	1291.60	1273.59	1274.57	1336.62	1318.61	1319.59	1335.61	660.30	646.30	668.81	A	771.40	753.39	754.37	745.42	727.41	728.39	728.39	710.38	711.37	729.40	711.39	712.37	386.20	373.21	364.70	365.20	7
13	74.06	1420.63	1402.63	1403.61	1392.64	1374.63	1375.62	1437.67	1419.66	1420.63	1436.66	710.82	696.82	719.33	T	700.36	682.35	683.34	674.38	656.37	657.36	657.36	639.35	640.33	658.36	640.35	641.34	350.68	337.69	329.18	329.68	6
14	72.08	1519.71	1501.70	1502.68	1491.71	1473.70	1474.69	1536.74	1518.72	1519.71	1535.73	760.35	746.36	768.87	V	599.31	581.30	582.29	573.34	555.32	556.31	556.31	538.30	539.28	557.32	539.31	540.29	300.16	287.17	278.65	279.16	5
15	129.11	1675.80	1657.80	1658.78	1647.81	1629.80	1630.79	1692.84	1674.83	1675.80	1691.83	838.40	824.41	846.92	R	500.25	482.24	483.22	474.27	456.26	457.24	457.24	439.23	440.21	458.25	440.24	441.22	250.62	237.63	229.12	229.62	4
16	86.10	1788.89	1770.88	1771.87	1760.90	1742.89	1743.87	1805.92	1787.91	1788.89	1804.91	894.95	880.95	903.46	L	344.15	326.13	327.12	318.17	300.16	301.14	301.14	283.13	284.11	302.15	284.14	285.12	172.57	159.58	151.07	151.57	3
17	30.03	1845.91	1827.90	1828.89	1817.92	1799.91	1800.89	1862.94	1844.93	1845.91	1861.93	923.46	909.46	931.97	G	231.06	213.05	214.03	205.08	187.07	188.05	188.05	170.04	171.03	189.06	171.05	172.04	116.03	103.04	94.53	95.03	2
18	102.06														E	174.04	156.03	157.01	148.06	130.05	131.03	131.03	113.02	114.01	132.04	114.03	115.01	87.52	74.53	66.02	66.52	1



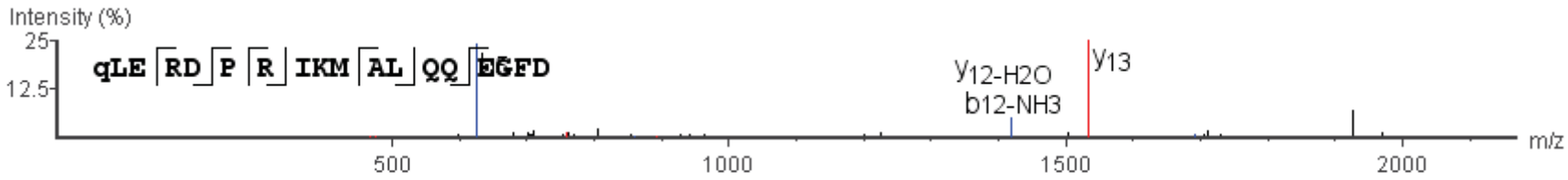
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Neuroendocrine convertase 2	P21661|NEC2_MOUSE		R.Q(-17.03)LERDP.R	51.29	1.9	370.683	2



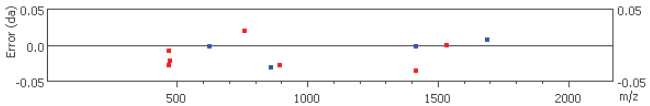
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	6
2	86.10	225.12	207.11	208.09	197.13	179.11	180.10	242.15	224.14	225.12	241.14	113.06	99.06	121.57	L	655.30	637.29	638.28	629.33	611.31	612.30	612.30	594.29	595.27	613.31	595.30	596.28	328.15	315.16	306.65	307.15	5
3	102.06	354.17	336.15	337.14	326.17	308.16	309.14	371.19	353.15	354.17	370.18	177.58	163.58	186.10	E	542.22	524.21	525.19	516.24	498.23	499.21	499.21	481.20	482.19	500.22	482.21	483.20	271.61	258.62	250.11	250.61	4
4	129.11	510.27	492.25	493.24	482.27	464.26	465.24	527.29	509.28	510.27	526.28	255.63	241.63	264.15	R	413.18	395.17	396.15	387.20	369.19	370.17	370.17	352.16	353.15	371.18	353.15	354.17	207.09	194.10	185.59	186.09	3
5	88.04	625.29	607.28	608.26	597.30	579.29	580.27	642.32	624.31	625.29	641.31	313.15	299.15	321.66	D	257.08	239.07	240.05	231.10	213.09	214.07	214.07	196.06	197.04	215.08	197.07	198.05	129.04	116.05	107.54	108.04	2
6	70.07														P	142.05	124.04	125.02	116.07	98.06	99.04	99.04	81.03	82.02	100.05	82.04	83.02	71.52	58.54	50.02	50.53	1



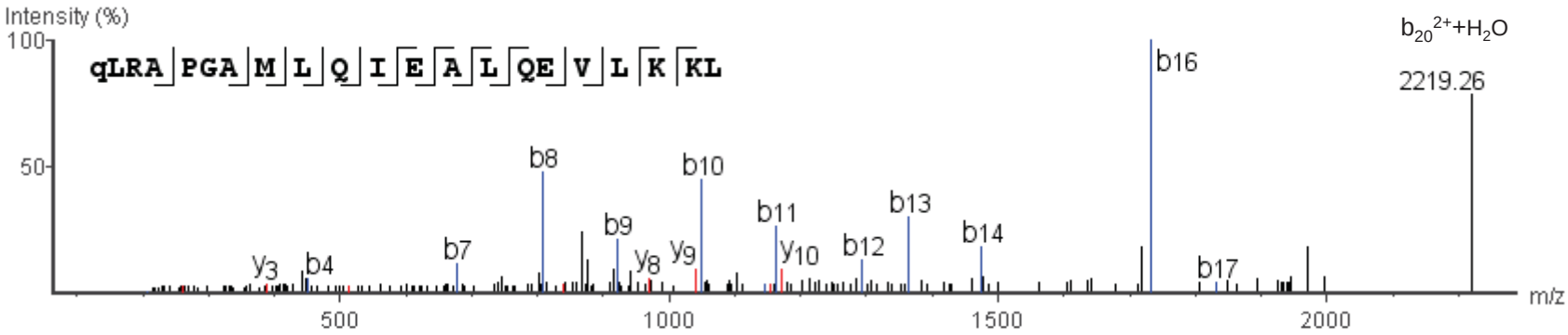
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Neuroendocrine convertase 2	P21661|NEC2_MOUSE		R.Q(-17.03)LERDPRIKMALQQEGFD.R	57.06	-2	719.6953	3



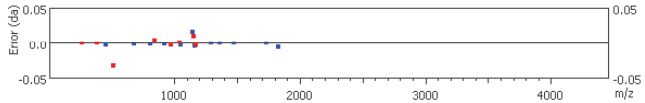
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	18
2	86.10	225.12	207.11	208.09	197.13	179.11	180.10	242.15	224.14	225.12	241.14	113.06	99.06	121.57	L	2072.02	2054.01	2055.00	2046.04	2028.03	2029.02	2029.02	2011.01	2011.99	2030.02	2012.01	2013.00	1036.51	1023.52	1015.01	1015.51	17
3	102.06	354.16	336.15	337.14	326.17	308.16	309.14	371.19	353.18	354.16	370.18	177.58	163.58	186.10	E	1958.94	1940.93	1941.91	1932.96	1914.95	1915.93	1915.93	1897.92	1898.91	1916.94	1898.93	1899.91	979.97	966.98	958.47	958.97	16
4	129.11	510.26	492.25	493.24	482.27	464.26	465.24	527.29	509.28	510.26	526.28	255.63	241.63	264.15	R	1829.90	1811.89	1812.87	1803.92	1785.91	1786.89	1786.89	1768.88	1769.86	1787.90	1769.89	1770.87	915.45	902.46	893.97	894.45	15
5	88.04	625.29	607.28	608.26	597.30	579.29	580.27	642.32	624.31	625.29	641.31	313.15	299.15	321.66	D	1673.80	1655.78	1656.77	1647.82	1629.81	1630.79	1630.79	1612.78	1613.76	1631.80	1613.79	1614.77	837.40	824.41	815.89	816.40	14
6	70.07	722.34	704.33	705.32	694.35	676.34	677.32	739.37	721.36	722.34	738.36	361.67	347.67	370.19	P	1558.77	1540.76	1541.74	1532.79	1514.78	1515.76	1515.76	1497.75	1498.73	1516.77	1498.76	1499.74	779.88	766.89	758.38	758.86	13
7	129.11	878.44	860.47	861.42	850.45	832.44	833.42	895.47	877.46	878.44	894.46	439.72	425.72	448.24	R	1461.72	1443.70	1444.69	1435.74	1417.76	1418.71	1418.71	1400.70	1401.68	1419.72	1401.71	1402.69	731.36	718.37	709.85	710.36	12
8	86.10	991.53	973.52	974.50	963.53	945.52	946.51	1008.56	990.55	991.53	1007.55	496.26	482.27	504.78	I	1305.61	1287.60	1288.59	1279.64	1261.62	1262.61	1262.61	1244.60	1245.58	1263.62	1245.61	1246.59	653.31	640.32	631.80	632.31	11
9	101.11	1119.62	1101.61	1102.60	1091.63	1073.62	1074.60	1136.65	1118.64	1119.62	1135.64	560.31	546.31	568.83	K	1192.53	1174.52	1175.50	1166.55	1148.54	1149.52	1149.52	1131.51	1132.50	1150.53	1132.52	1133.50	596.77	583.78	575.26	575.77	10
10	104.05	1250.66	1232.65	1233.64	1222.67	1204.66	1205.64	1267.69	1249.68	1250.66	1266.68	625.83	611.83	634.35	M	1064.44	1046.42	1047.41	1038.46	1020.45	1021.43	1021.43	1003.42	1004.40	1022.44	1004.43	1005.41	532.72	519.73	511.21	511.72	9
11	44.05	1321.70	1303.69	1304.67	1293.71	1275.70	1276.68	1338.73	1320.72	1321.70	1337.72	661.35	647.35	669.86	A	933.39	915.38	916.37	907.42	889.40	890.39	890.39	872.38	873.36	891.40	873.39	874.37	467.21	454.21	445.69	446.20	8
12	86.10	1434.79	1416.78	1417.76	1406.79	1388.78	1389.76	1451.81	1433.80	1434.79	1450.80	717.89	703.90	726.41	L	862.36	844.35	845.33	836.38	818.37	819.35	819.35	801.34	802.32	820.36	802.35	803.33	431.68	418.69	410.18	410.68	7
13	101.07	1562.84	1544.83	1545.82	1534.85	1516.84	1517.82	1579.87	1561.86	1562.84	1578.86	781.92	767.92	790.44	Q	749.27	731.26	732.25	723.29	705.28	706.27	706.27	688.26	689.24	707.28	689.26	690.25	375.14	362.15	353.63	354.14	6
14	101.07	1690.89	1672.89	1673.88	1662.91	1644.90	1645.88	1707.93	1689.92	1690.89	1706.92	845.95	831.95	854.46	Q	621.22	603.20	604.19	595.24	577.23	578.21	578.21	560.20	561.18	579.22	561.21	562.19	311.11	298.12	289.60	290.11	5
15	102.06	1819.95	1801.93	1802.92	1791.95	1773.94	1774.92	1836.97	1818.96	1819.95	1835.96	910.47	896.48	918.99	E	493.16	475.17	476.13	467.21	449.17	450.15	450.15	432.14	433.12	451.16	433.15	434.13	247.08	234.09	225.58	226.08	4
16	30.03	1876.97	1858.96	1859.94	1848.97	1830.96	1831.94	1893.99	1875.98	1876.97	1892.99	938.98	924.99	947.50	G	364.11	346.10	347.09	338.13	320.12	321.11	321.11	303.10	304.08	322.12	304.10	305.09	182.56	169.57	161.05	161.56	3
17	120.08	2024.04	2006.02	2007.01	1996.04	1978.03	1979.01	2041.06	2023.05	2024.04	2040.05	1012.52	998.52	1021.03	F	307.09	289.08	290.07	281.11	263.10	264.09	264.09	246.08	247.06	265.09	247.08	248.07	154.05	141.06	132.54	133.05	2
18	88.04														D	160.02	142.01	143.00	134.04	116.03	117.02	117.02	99.01	99.99	118.03	100.02	101.00	80.51	67.52	59.01	59.51	1



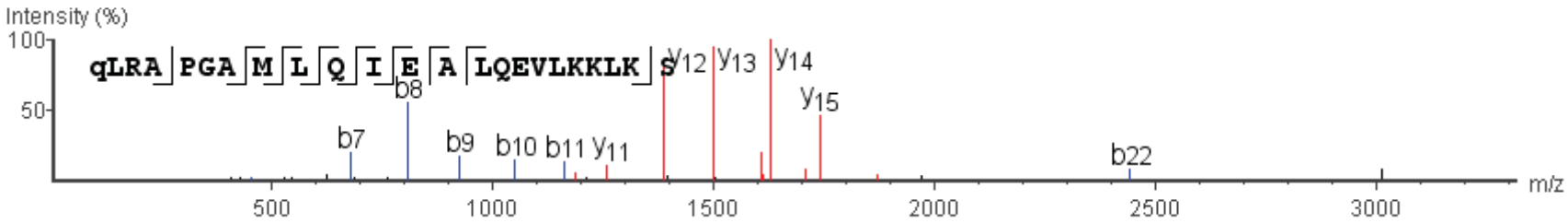
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Cocaine- and amphetamine-regul	P56388|CART_MOUSE		R.Q(-17.03)LRAPGAMLQIEALQEVLKKL.K	82.73	13	778.1198	3



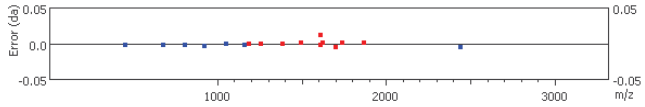
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	21
2	86.10	225.12	207.11	208.09	197.13	179.11	180.10	242.15	224.14	225.12	241.14	113.06	99.06	121.57	L	2247.29	2229.28	2230.26	2221.31	2203.30	2204.28	2204.28	2186.27	2187.26	2205.29	2187.28	2188.26	1124.14	1111.16	1102.64	1103.15	20
3	129.11	381.22	363.21	364.19	353.23	335.22	336.20	398.25	380.24	381.22	397.24	191.11	177.11	199.62	R	2134.21	2116.19	2117.18	2108.23	2090.22	2091.20	2091.20	2073.19	2074.17	2092.21	2074.20	2075.18	1067.60	1054.61	1046.10	1046.60	19
4	44.05	452.26	434.25	435.23	424.26	406.25	407.24	469.29	451.28	452.26	468.28	226.63	212.63	235.14	A	1978.10	1960.09	1961.08	1952.12	1934.11	1935.10	1935.10	1917.09	1918.07	1936.11	1918.10	1919.08	989.55	976.56	968.05	968.55	18
5	70.07	549.31	531.30	532.28	521.32	503.31	504.29	566.34	548.33	549.31	565.33	275.16	261.16	283.67	P	1907.07	1889.06	1890.04	1881.09	1863.08	1864.06	1864.06	1846.05	1847.03	1865.07	1847.06	1848.04	954.03	941.04	932.53	933.03	17
6	30.03	606.33	588.32	589.31	578.34	560.33	561.31	623.36	605.35	606.33	622.35	303.67	289.67	312.18	G	1810.01	1792.00	1792.99	1784.03	1766.02	1767.01	1767.01	1749.00	1749.98	1768.02	1750.01	1750.99	905.51	892.52	884.00	884.51	16
7	44.05	677.37	659.36	660.34	649.38	631.36	632.35	694.40	676.39	677.37	693.39	339.18	325.19	347.70	A	1752.99	1734.98	1735.97	1727.01	1709.00	1709.99	1709.99	1691.98	1692.96	1710.99	1692.98	1693.97	877.00	864.01	855.49	856.00	15
8	104.05	808.41	790.40	791.38	780.42	762.40	763.39	825.44	807.43	808.41	824.43	404.71	390.71	413.22	M	1681.96	1663.95	1664.93	1655.98	1637.97	1638.95	1638.95	1620.94	1621.92	1639.96	1621.95	1622.93	841.48	828.49	819.97	820.48	14
9	86.10	921.50	903.48	904.47	893.50	875.49	876.47	938.52	920.51	921.50	937.51	461.25	447.25	469.76	L	1550.92	1532.90	1533.89	1524.94	1506.93	1507.91	1507.91	1489.90	1490.88	1508.92	1490.91	1491.89	775.96	762.97	754.45	754.96	13
10	101.07	1049.56	1031.54	1032.53	1021.56	1003.55	1004.53	1066.58	1048.57	1049.56	1065.57	525.28	511.28	533.79	Q	1437.83	1419.82	1420.80	1411.85	1393.84	1394.82	1394.82	1376.81	1377.80	1395.83	1377.82	1378.81	719.42	706.43	697.91	698.42	12
11	86.10	1162.64	1144.63	1145.59	1134.64	1116.63	1117.62	1179.66	1161.65	1162.64	1178.66	581.82	567.82	590.33	I	1309.77	1291.76	1292.75	1283.79	1265.78	1266.77	1266.77	1248.76	1249.74	1267.77	1249.76	1250.75	655.39	642.40	633.88	634.39	11
12	102.06	1291.68	1273.67	1274.65	1263.68	1245.67	1246.66	1308.71	1290.70	1291.68	1307.70	646.34	632.34	654.85	E	1196.69	1178.68	1179.66	1170.71	1152.69	1153.68	1153.68	1135.67	1136.66	1154.69	1136.68	1137.66	598.84	585.85	577.34	577.85	10
13	44.05	1362.72	1344.71	1345.69	1334.72	1316.71	1317.69	1379.74	1361.73	1362.72	1378.74	681.86	667.86	690.37	A	1067.65	1049.64	1050.62	1041.66	1023.66	1024.64	1024.64	1006.63	1007.61	1025.65	1007.64	1008.62	534.32	521.33	512.85	513.32	9
14	86.10	1475.80	1457.79	1458.77	1447.81	1429.80	1430.78	1492.83	1474.82	1475.80	1491.82	738.40	724.40	746.91	I	996.61	978.60	979.58	970.63	952.62	953.60	953.60	935.59	936.58	954.61	936.60	937.58	498.80	485.81	477.30	477.81	8
15	101.07	1603.86	1585.85	1586.83	1575.86	1557.85	1558.84	1620.89	1602.88	1603.86	1619.88	802.43	788.43	810.94	Q	883.52	865.51	866.50	857.55	839.53	840.52	840.52	822.51	823.49	841.53	823.52	824.50	442.26	429.27	420.76	421.26	7
16	102.06	1732.90	1714.89	1715.88	1704.91	1686.90	1687.88	1749.93	1731.92	1732.90	1748.92	866.95	852.95	875.46	E	755.47	737.46	738.44	729.49	711.48	712.46	712.46	694.45	695.43	713.47	695.46	696.44	378.23	365.24	356.73	357.23	6
17	72.08	1831.98	1813.96	1814.94	1803.98	1785.97	1786.95	1849.00	1830.99	1831.98	1847.99	916.49	902.49	925.00	V	626.42	608.41	609.40	600.44	582.43	583.42	583.42	565.41	566.39	584.43	566.41	567.40	313.71	300.72	292.21	292.71	5
18	86.10	1945.05	1927.04	1928.03	1917.06	1899.05	1900.03	1962.08	1944.07	1945.05	1961.07	973.03	959.03	981.54	L	527.36	509.34	510.33	501.38	483.37	484.35	484.35	466.34	467.32	485.36	467.35	468.33	264.18	251.19	242.67	243.18	4
19	101.11	2073.15	2055.14	2056.12	2045.15	2027.14	2028.13	2090.18	2072.17	2073.15	2089.17	1037.07	1023.08	1045.59	K	414.27	396.26	397.24	388.29	370.28	371.26	371.26	353.25	354.24	372.27	354.26	355.25	207.64	194.65	186.13	186.64	3
20	101.11	2201.24	2183.23	2184.22	2173.25	2155.24	2156.22	2218.27	2200.26	2201.24	2217.26	1101.12	1087.12	1109.64	K	286.18	268.17	269.15	260.20	242.19	243.17	243.17	225.16	226.14	244.18	226.17	227.15	143.59	130.60	122.08	122.59	2
21	86.10														L	158.08	140.07	141.05	132.10	114.09	115.07	115.07	97.06	98.05	116.08	98.07	99.06	79.54	66.55	58.04	58.54	1



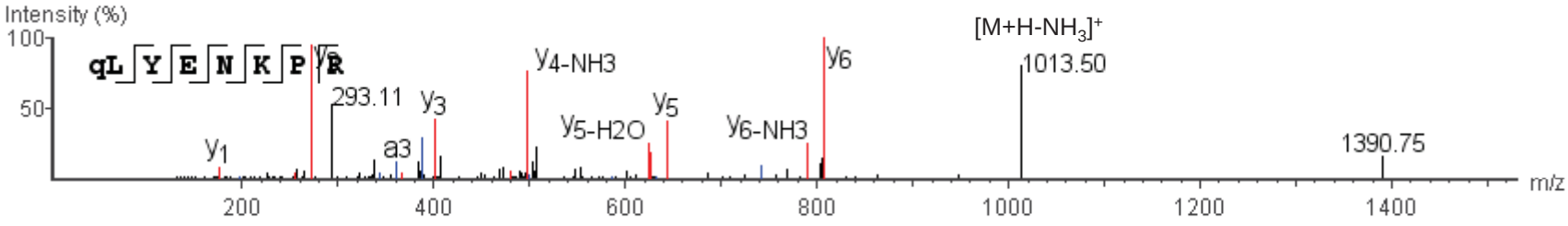
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Cocaine- and amphetamine-regul	P56388|CART_MOUSE		R.Q(-17.03)LRAPGAMLQIEALQEVLKKLKS.K	97.71	-0.4	637.6224	4



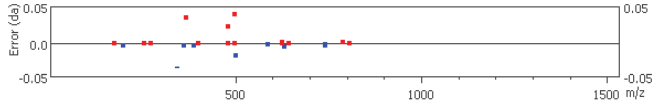
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	23
2	86.10	225.12	207.11	208.09	197.13	179.11	180.10	242.15	224.14	225.12	241.14	113.06	99.06	121.57	L	2462.42	2444.41	2445.39	2436.44	2418.43	2419.41	2419.41	2401.40	2402.38	2420.42	2402.41	2403.39	1231.71	1218.72	1210.20	1210.71	22
3	129.11	381.22	363.21	364.19	353.23	335.22	336.20	398.25	380.24	381.22	397.24	191.11	177.11	199.62	R	2349.33	2331.32	2332.31	2323.35	2305.34	2306.33	2306.33	2288.32	2289.30	2307.33	2289.32	2290.31	1175.17	1162.18	1153.66	1154.17	21
4	44.05	452.26	434.25	435.23	424.26	406.25	407.24	469.29	451.28	452.26	468.28	226.63	212.63	235.14	A	2193.23	2175.22	2176.20	2167.25	2149.24	2150.22	2150.22	2132.21	2133.20	2151.23	2133.22	2134.21	1097.12	1084.13	1075.61	1076.12	20
5	70.07	549.31	531.30	532.28	521.32	503.31	504.29	566.34	548.33	549.31	565.33	275.16	261.16	283.67	P	2122.19	2104.18	2105.17	2096.21	2078.20	2079.19	2079.19	2061.18	2062.16	2080.20	2062.18	2063.17	1061.60	1048.61	1040.09	1040.60	19
6	30.03	606.33	588.32	589.31	578.34	560.33	561.31	623.36	605.35	606.33	622.35	303.67	289.67	312.18	G	2025.14	2007.13	2008.11	1999.16	1981.15	1982.14	1982.14	1964.12	1965.11	1983.14	1965.13	1966.12	1013.07	1000.08	991.57	992.07	18
7	44.05	677.37	659.36	660.34	649.38	631.36	632.35	694.40	676.39	677.37	693.39	339.18	325.19	347.70	A	1968.12	1950.11	1951.09	1942.14	1924.13	1925.11	1925.11	1907.10	1908.09	1926.12	1908.11	1909.09	984.56	971.57	963.06	963.56	17
8	104.05	808.41	790.40	791.38	780.42	762.40	763.39	825.44	807.43	808.41	824.43	404.71	390.71	413.22	M	1897.08	1879.07	1880.06	1871.10	1853.09	1854.08	1854.08	1836.07	1837.05	1855.08	1837.07	1838.06	949.04	936.05	927.54	928.04	16
9	86.10	921.50	903.48	904.47	893.50	875.49	876.47	938.52	920.51	921.50	937.51	461.25	447.25	469.76	L	1766.04	1748.03	1749.02	1740.06	1722.05	1723.04	1723.04	1705.03	1706.01	1724.04	1706.03	1707.02	883.52	870.53	862.02	862.52	15
10	101.07	1049.55	1031.54	1032.53	1021.56	1003.55	1004.53	1066.58	1048.57	1049.55	1065.57	525.28	511.28	533.79	Q	1652.96	1634.95	1635.93	1626.98	1608.95	1609.95	1609.95	1591.94	1592.92	1610.96	1592.95	1593.93	826.98	813.99	805.48	805.98	14
11	86.10	1162.64	1144.63	1145.61	1134.64	1116.63	1117.62	1179.66	1161.65	1162.64	1178.66	581.82	567.82	590.33	I	1524.90	1506.89	1507.87	1498.92	1480.91	1481.89	1481.89	1463.88	1464.87	1482.90	1464.89	1465.87	762.95	749.96	741.45	741.95	13
12	102.06	1291.68	1273.67	1274.65	1263.68	1245.67	1246.66	1308.71	1290.70	1291.68	1307.70	646.34	632.34	654.85	E	1411.82	1393.80	1394.79	1385.83	1367.83	1368.81	1368.81	1350.80	1351.78	1369.82	1351.81	1352.79	706.41	693.42	684.90	685.41	12
13	44.05	1362.72	1344.71	1345.69	1334.72	1316.71	1317.69	1379.74	1361.73	1362.72	1378.74	681.86	667.86	690.37	A	1282.77	1264.76	1265.75	1256.79	1238.78	1239.77	1239.77	1221.76	1222.74	1240.77	1222.76	1223.75	641.89	628.90	620.38	620.89	11
14	86.10	1475.80	1457.79	1458.77	1447.81	1429.80	1430.78	1492.83	1474.82	1475.80	1491.82	738.40	724.40	746.91	L	1211.74	1193.73	1194.71	1185.76	1167.75	1168.73	1168.73	1150.72	1151.70	1169.74	1151.73	1152.71	606.37	593.38	584.86	585.37	10
15	101.07	1603.86	1585.85	1586.83	1575.86	1557.85	1558.84	1620.89	1602.88	1603.86	1619.88	802.43	788.43	810.94	Q	1098.65	1080.64	1081.62	1072.67	1054.66	1055.65	1055.65	1037.63	1038.62	1056.65	1038.64	1039.63	549.83	536.84	528.32	528.83	9
16	102.06	1732.90	1714.89	1715.88	1704.91	1686.90	1687.88	1749.93	1731.92	1732.90	1748.92	866.95	852.95	875.46	E	970.59	952.58	953.57	944.61	926.60	927.59	927.59	909.58	910.56	928.59	910.58	911.57	485.80	472.81	464.29	464.80	8
17	72.08	1831.97	1813.96	1814.94	1803.98	1785.97	1786.95	1849.00	1830.99	1831.97	1847.99	916.49	902.49	925.00	V	841.55	823.54	824.52	815.57	797.56	798.54	798.54	780.53	781.52	799.55	781.54	782.53	421.28	408.29	399.77	400.28	7
18	86.10	1945.05	1927.04	1928.03	1917.06	1899.05	1900.03	1962.08	1944.07	1945.05	1961.07	973.03	959.03	981.54	L	742.48	724.47	725.46	716.50	698.49	699.48	699.48	681.47	682.45	700.48	682.47	683.46	371.74	358.75	350.24	350.74	6
19	101.11	2073.15	2055.14	2056.12	2045.15	2027.14	2028.13	2090.18	2072.17	2073.15	2089.17	1037.07	1023.08	1045.59	K	629.40	611.39	612.37	603.42	585.41	586.39	586.39	568.38	569.36	587.40	569.39	570.37	315.20	302.21	293.70	294.20	5
20	101.11	2201.24	2183.23	2184.22	2173.25	2155.24	2156.22	2218.27	2200.26	2201.24	2217.26	1101.12	1087.12	1109.64	K	501.30	483.29	484.28	475.32	457.31	458.30	458.30	440.29	441.27	459.30	441.29	442.28	251.15	238.16	229.65	230.15	4
21	86.10	2314.33	2296.32	2297.30	2286.33	2268.32	2269.31	2331.36	2313.34	2314.33	2330.35	1157.66	1143.67	1166.18	L	373.21	355.20	356.18	347.23	329.22	330.20	330.20	312.19	313.17	331.21	313.20	314.18	187.10	174.11	165.60	166.10	3
22	101.11	2442.43	2424.41	2425.40	2414.43	2396.42	2397.40	2459.45	2441.44	2442.43	2458.44	1221.71	1207.71	1230.23	K	260.12	242.11	243.10	234.14	216.13	217.12	217.12	199.11	200.09	218.13	200.12	201.10	130.56	117.57	109.06	109.56	2
23	60.04														S	132.03	114.02	115.00	106.05	88.04	89.02	89.02	71.01	72.00	90.03	72.02	73.00	66.51	53.52	45.01	45.52	1



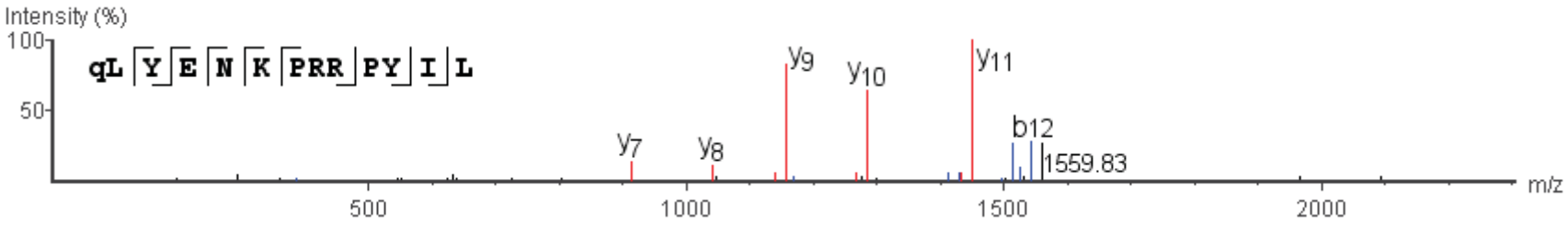
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Neurotensin/neuromedin N	Q9D3P9|NEUT_MOUSE		R.Q(-17.03)LYENKPR.R	65.64	0.5	515.7697	2



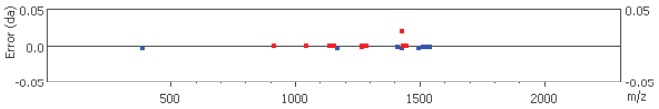
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	8
2	86.10	225.12	207.11	208.09	197.13	179.11	180.10	242.15	224.14	225.12	241.14	113.06	99.06	121.57	L	945.48	927.47	928.45	919.50	901.49	902.47	902.47	884.46	885.45	903.48	885.47	886.45	473.24	460.25	451.74	452.24	7
3	136.08	388.19	370.17	371.16	360.19	342.18	343.20	405.21	387.20	388.19	404.20	194.59	180.59	203.11	Y	832.39	814.38	815.37	806.41	788.40	789.39	789.39	771.38	772.36	790.40	772.39	773.37	416.70	403.71	395.19	395.70	6
4	102.06	517.23	499.22	500.22	489.23	471.22	472.20	534.25	516.24	517.23	533.25	259.11	245.12	267.63	E	669.33	651.32	652.30	643.35	625.34	626.33	626.33	608.31	609.30	627.33	609.32	610.31	335.17	322.18	313.66	314.17	5
5	87.06	631.27	613.26	614.24	603.27	585.26	586.25	648.30	630.29	631.27	647.29	316.13	302.14	324.65	N	540.29	522.28	523.26	514.31	496.30	497.28	497.28	479.27	480.26	498.25	480.26	481.26	270.64	257.65	249.14	249.65	4
6	101.11	759.36	741.36	742.34	731.37	713.36	714.34	776.39	758.38	759.36	775.38	380.18	366.18	388.70	K	426.25	408.24	409.22	400.27	382.26	383.24	383.24	365.23	366.18	384.25	366.24	367.22	213.62	200.63	192.12	192.62	3
7	70.07	856.42	838.41	839.39	828.42	810.41	811.40	873.44	855.43	856.42	872.44	428.71	414.71	437.22	P	298.15	280.14	281.12	272.17	254.16	255.15	255.15	237.13	238.12	256.15	238.14	239.13	149.58	136.59	128.07	128.58	2
8	129.11														R	201.10	183.09	184.07	175.12	157.11	158.09	158.09	140.08	141.06	159.10	141.09	142.07	101.05	88.06	79.55	80.05	1



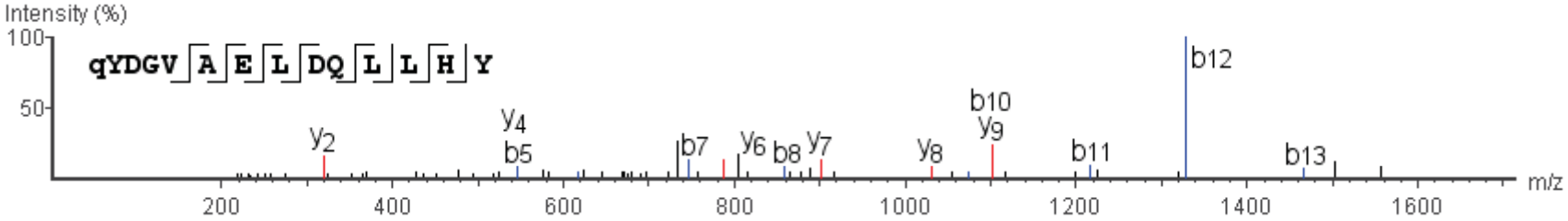
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Neurotensin/neuromedin N	Q9D3P9|NEUT_MOUSE	Neurotensin	R.Q(-17.03)LYENKPRRPYIL.K	65.69	12	558.3112	3



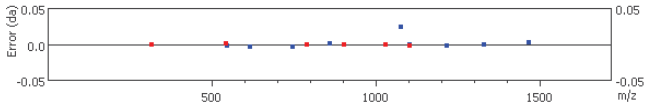
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	13
2	86.10	225.12	207.11	208.09	197.13	179.11	180.10	242.15	224.14	225.12	241.14	113.06	99.06	121.57	L	1587.86	1569.85	1570.84	1561.88	1543.87	1544.86	1544.86	1526.85	1527.83	1545.87	1527.86	1528.84	794.43	781.44	772.93	773.43	12
3	136.08	388.19	370.17	371.16	360.19	342.18	343.16	405.21	387.20	388.19	404.20	194.59	180.59	203.11	Y	1474.78	1456.77	1457.75	1448.80	1430.77	1431.77	1431.77	1413.76	1414.75	1432.78	1414.77	1415.75	737.89	724.90	716.39	716.89	11
4	102.06	517.23	499.22	500.20	489.23	471.22	472.20	534.25	516.24	517.23	533.25	259.11	245.12	267.63	E	1311.72	1293.71	1294.69	1285.74	1267.73	1268.71	1268.71	1250.70	1251.68	1269.72	1251.71	1252.69	656.36	643.37	634.86	635.36	10
5	87.06	631.27	613.26	614.24	603.27	585.26	586.25	648.30	630.29	631.27	647.29	316.13	302.14	324.65	N	1182.67	1164.66	1165.65	1156.69	1138.68	1139.67	1139.67	1121.66	1122.64	1140.68	1122.67	1123.65	591.84	578.85	570.33	570.84	9
6	101.11	759.36	741.35	742.34	731.37	713.36	714.34	776.39	758.38	759.36	775.38	380.18	366.18	388.70	K	1068.63	1050.62	1051.60	1042.65	1024.64	1025.62	1025.62	1007.61	1008.60	1026.63	1008.62	1009.61	534.82	521.83	513.31	513.82	8
7	70.07	856.42	838.41	839.39	828.42	810.41	811.40	873.44	855.43	856.42	872.44	428.71	414.71	437.22	P	940.54	922.53	923.51	914.56	896.55	897.53	897.53	879.52	880.50	898.54	880.53	881.51	470.77	457.78	449.27	449.77	7
8	129.11	1012.52	994.51	995.49	984.52	966.51	967.50	1029.55	1011.53	1012.52	1028.54	506.76	492.76	515.27	R	843.48	825.47	826.46	817.50	799.49	800.48	800.48	782.47	783.45	801.49	783.47	784.46	422.24	409.25	400.74	401.24	6
9	129.11	1168.62	1150.61	1151.59	1140.62	1122.61	1123.60	1185.65	1167.64	1168.62	1184.64	584.81	570.81	593.32	R	687.38	669.37	670.36	661.40	643.39	644.38	644.38	626.37	627.35	645.38	627.37	628.36	344.19	331.20	322.69	323.19	5
10	70.07	1265.67	1247.66	1248.65	1237.68	1219.67	1220.65	1282.70	1264.69	1265.67	1281.69	633.34	619.34	641.85	P	531.28	513.27	514.25	505.30	487.29	488.28	488.28	470.26	471.25	489.28	471.27	472.26	266.14	253.15	244.64	245.14	4
11	136.08	1428.74	1410.72	1411.71	1400.74	1382.73	1383.71	1445.76	1427.75	1428.74	1444.75	714.87	700.87	723.38	Y	434.23	416.22	417.20	408.25	390.24	391.22	391.22	373.21	374.20	392.23	374.22	375.20	217.61	204.62	196.11	196.62	3
12	86.10	1541.82	1523.81	1524.79	1513.83	1495.81	1496.80	1558.85	1540.84	1541.82	1557.84	771.41	757.41	779.92	I	271.17	253.15	254.14	245.19	227.18	228.16	228.16	210.15	211.13	229.17	211.16	212.14	136.08	123.09	114.58	115.08	2
13	86.10														L	158.08	140.07	141.05	132.10	114.09	115.07	115.07	97.06	98.05	116.08	98.07	99.06	79.54	66.55	58.04	58.54	1



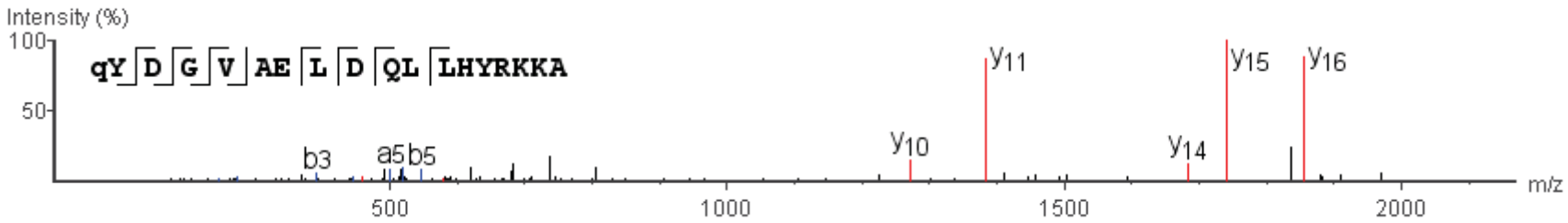
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Secretogranin-1	P16014|SCG1_MOUSE		R.Q(-17.03)YDGVAELDQLLHY.R	89.08	0.1	823.8885	2



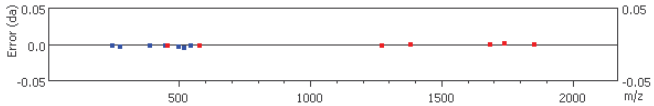
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	14
2	136.08	275.10	257.09	258.07	247.10	229.09	230.08	292.13	274.12	275.10	291.12	138.05	124.05	146.56	Y	1561.72	1543.71	1544.69	1535.74	1517.73	1518.71	1518.71	1500.70	1501.68	1519.72	1501.71	1502.69	781.36	768.37	759.86	760.36	13
3	88.04	390.13	372.12	373.10	362.13	344.12	345.10	407.15	389.14	390.13	406.15	195.56	181.57	204.08	D	1398.65	1380.64	1381.63	1372.67	1354.66	1355.65	1355.65	1337.64	1338.62	1356.66	1338.64	1339.63	699.83	686.84	678.32	678.83	12
4	30.03	447.15	429.14	430.12	419.15	401.14	402.13	464.18	446.16	447.15	463.17	224.07	210.08	232.59	G	1283.63	1265.62	1266.60	1257.65	1239.64	1240.62	1240.62	1222.61	1223.59	1241.63	1223.62	1224.60	642.31	629.32	620.81	621.31	11
5	72.08	546.22	528.21	529.19	518.22	500.21	501.19	563.24	545.23	546.22	562.24	273.61	259.61	282.12	V	1226.61	1208.59	1209.58	1200.63	1182.62	1183.60	1183.60	1165.59	1166.57	1184.61	1166.60	1167.58	613.80	600.81	592.30	592.80	10
6	44.05	617.26	599.24	600.23	589.26	571.25	572.23	634.28	616.27	617.26	633.27	309.13	295.13	317.64	A	1127.54	1109.53	1110.51	1101.56	1083.55	1084.53	1084.53	1066.52	1067.50	1085.54	1067.53	1068.51	564.27	551.28	542.77	543.27	9
7	102.06	746.30	728.29	729.27	718.30	700.29	701.27	763.32	745.31	746.30	762.32	373.65	359.65	382.16	E	1056.50	1038.49	1039.47	1030.52	1012.51	1013.49	1013.49	995.48	996.47	1014.50	996.49	997.47	528.75	515.76	507.25	507.75	8
8	86.10	859.38	841.37	842.35	831.39	813.37	814.36	876.41	858.40	859.38	875.40	430.19	416.19	438.70	L	927.46	909.45	910.43	901.48	883.47	884.45	884.45	866.44	867.42	885.46	867.45	868.43	464.23	451.24	442.73	443.23	7
9	88.04	974.41	956.40	957.38	946.41	928.40	929.39	991.43	973.42	974.41	990.43	487.70	473.71	496.22	D	814.37	796.36	797.35	788.39	770.38	771.37	771.37	753.36	754.34	772.37	754.36	755.35	407.69	394.70	386.18	386.69	6
10	101.07	1102.47	1084.46	1085.44	1074.45	1056.46	1057.44	1119.49	1101.48	1102.47	1118.48	551.73	537.74	560.25	Q	699.35	681.34	682.32	673.37	655.36	656.34	656.34	638.33	639.31	657.35	639.34	640.32	350.17	337.18	328.67	329.17	5
11	86.10	1215.55	1197.54	1198.52	1187.55	1169.54	1170.53	1232.58	1214.57	1215.55	1231.57	608.27	594.28	616.79	L	571.29	553.28	554.26	545.31	527.30	528.28	528.28	510.27	511.25	529.29	511.28	512.26	286.14	273.15	264.64	265.14	4
12	86.10	1328.64	1310.62	1311.61	1300.64	1282.63	1283.61	1345.66	1327.65	1328.64	1344.65	664.82	650.82	673.33	L	458.20	440.19	441.18	432.22	414.21	415.20	415.20	397.19	398.17	416.20	398.19	399.18	229.60	216.61	208.10	208.60	3
13	110.07	1465.69	1447.68	1448.67	1437.70	1419.69	1420.67	1482.72	1464.71	1465.69	1481.71	733.35	719.35	741.86	H	345.12	327.11	328.09	319.14	301.13	302.11	302.11	284.10	285.09	303.12	285.11	286.09	173.06	160.07	151.56	152.06	2
14	136.08														Y	208.06	190.05	191.03	182.08	164.07	165.05	165.05	147.04	148.03	166.06	148.05	149.03	104.53	91.54	83.03	83.53	1



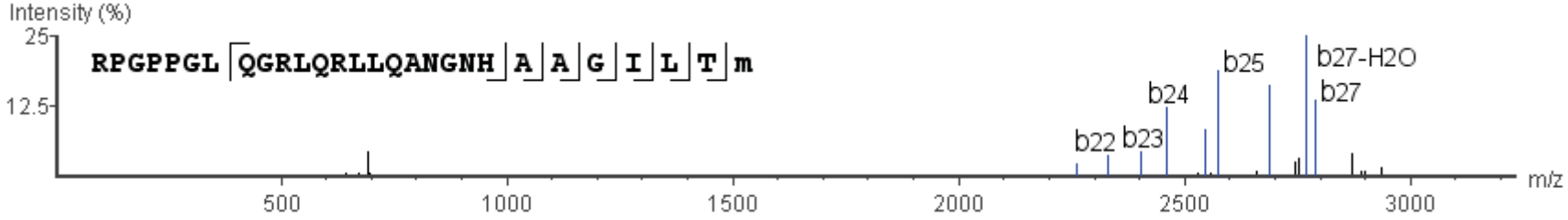
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Secretogranin-1	P16014|SCG1_MOUSE		R.Q(-17.03)YDGVAELDQLLHYRKKA.D	75.8	5.8	533.283	4



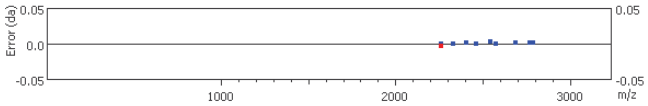
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	18
2	136.08	275.10	257.09	258.07	247.11	229.09	230.08	292.13	274.12	275.10	291.12	138.05	124.05	146.56	Y	2045.05	2027.03	2028.02	2019.07	2001.06	2002.04	2002.04	1984.03	1985.01	2003.05	1985.04	1986.02	1023.02	1010.03	1001.52	1002.02	17
3	88.04	390.13	372.12	373.10	362.13	344.12	345.10	407.15	389.14	390.13	406.15	195.56	181.57	204.08	D	1881.98	1863.97	1864.95	1856.00	1837.99	1838.98	1838.98	1820.96	1821.95	1839.98	1821.97	1822.96	941.49	928.50	919.99	920.49	16
4	30.03	447.15	429.14	430.12	419.15	401.14	402.13	464.18	446.16	447.15	463.17	224.07	210.08	232.59	G	1766.95	1748.94	1749.93	1740.97	1722.96	1723.95	1723.95	1705.94	1706.92	1724.96	1706.95	1707.93	883.98	870.99	862.47	862.98	15
5	72.08	546.22	528.21	529.19	518.23	500.22	501.19	563.24	545.23	546.22	562.24	273.61	259.61	282.12	V	1709.93	1691.92	1692.91	1683.96	1665.94	1666.93	1666.93	1648.92	1649.90	1667.93	1649.92	1650.91	855.47	842.48	833.96	834.47	14
6	44.05	617.25	599.24	600.23	589.26	571.25	572.23	634.28	616.27	617.25	633.27	309.13	295.13	317.64	A	1610.86	1592.85	1593.84	1584.89	1566.88	1567.86	1567.86	1549.85	1550.83	1568.87	1550.86	1551.84	805.93	792.94	784.43	784.93	13
7	102.06	746.30	728.29	729.27	718.30	700.29	701.27	763.32	745.31	746.30	762.32	373.65	359.65	382.16	E	1539.83	1521.82	1522.80	1513.85	1495.84	1496.82	1496.82	1478.81	1479.79	1497.83	1479.82	1480.80	770.41	757.42	748.91	749.41	12
8	86.10	859.38	841.37	842.35	831.39	813.37	814.36	876.41	858.40	859.38	875.40	430.19	416.19	438.70	L	1410.79	1392.77	1393.76	1384.80	1366.80	1367.78	1367.78	1349.77	1350.75	1368.79	1350.78	1351.76	705.89	692.90	684.39	684.89	11
9	88.04	974.41	956.40	957.38	946.41	928.40	929.39	991.43	973.42	974.41	990.43	487.70	473.71	496.22	D	1297.70	1279.69	1280.67	1271.72	1253.71	1254.69	1254.69	1236.68	1237.67	1255.70	1237.69	1238.68	649.35	636.36	627.85	628.35	10
10	101.07	1102.47	1084.46	1085.44	1074.47	1056.46	1057.44	1119.49	1101.48	1102.47	1118.48	551.73	537.74	560.25	Q	1182.67	1164.66	1165.65	1156.69	1138.68	1139.67	1139.67	1121.66	1122.64	1140.68	1122.67	1123.65	591.84	578.85	570.33	570.84	9
11	86.10	1215.55	1197.54	1198.52	1187.55	1169.54	1170.53	1232.58	1214.57	1215.55	1231.57	608.27	594.28	616.79	L	1054.62	1036.61	1037.59	1028.64	1010.63	1011.61	1011.61	993.60	994.58	1012.62	994.61	995.59	527.81	514.82	506.30	506.81	8
12	86.10	1328.63	1310.62	1311.61	1300.64	1282.63	1283.61	1345.66	1327.65	1328.63	1344.65	664.82	650.82	673.33	L	941.53	923.52	924.50	915.55	897.54	898.53	898.53	880.51	881.50	899.53	881.52	882.51	471.27	458.28	449.76	450.27	7
13	110.07	1465.69	1447.68	1448.67	1437.70	1419.69	1420.67	1482.72	1464.71	1465.69	1481.71	733.35	719.35	741.86	H	828.45	810.44	811.42	802.47	784.46	785.44	785.44	767.43	768.41	786.45	768.44	769.42	414.72	401.73	393.22	393.72	6
14	136.08	1628.76	1610.75	1611.73	1600.76	1582.75	1583.73	1645.78	1627.77	1628.76	1644.78	814.88	800.88	823.39	Y	691.39	673.38	674.36	665.41	647.40	648.38	648.38	630.37	631.36	649.39	631.38	632.36	346.19	333.20	324.69	325.20	5
15	129.11	1764.86	1766.85	1767.83	1756.86	1738.85	1739.84	1801.88	1783.87	1784.86	1800.88	892.93	878.93	901.44	R	528.33	510.31	511.30	502.35	484.34	485.32	485.32	467.31	468.29	486.33	468.32	469.30	264.66	251.67	243.16	243.66	4
16	101.11	1912.95	1894.94	1895.93	1884.96	1866.95	1867.93	1929.98	1911.97	1912.95	1928.97	956.98	942.98	965.49	K	372.22	354.21	355.20	346.24	328.23	329.22	329.22	311.21	312.19	330.23	312.22	313.20	186.61	173.62	165.11	165.61	3
17	101.11	2041.05	2023.04	2024.02	2013.05	1995.04	1996.03	2058.07	2040.06	2041.05	2057.07	1021.02	1007.03	1029.54	K	244.13	226.12	227.10	218.15	200.14	201.12	201.12	183.11	184.10	202.13	184.12	185.10	122.56	109.57	101.06	101.57	2
18	44.05														A	116.03	98.02	99.01	90.05	72.04	73.03	73.03	55.02	56.00	74.04	56.03	57.01	58.52	45.53	37.01	37.52	1



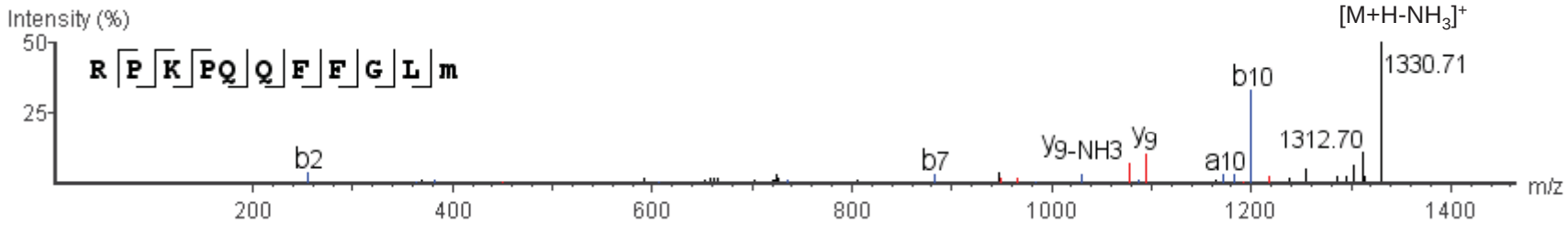
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Orexin	O55241|OREX_MOUSE	Orexin-B	R.RPGPPGLQGRLQRLLQANGNHAAGILTM(-.98).G	89.72	2.5	734.6641	4



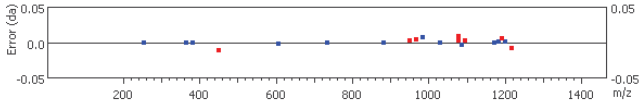
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	129.11	157.11	139.10	140.08	129.11	111.10	112.09	174.14	156.13	157.11	173.13	79.05	65.06	87.57	R																	28
2	70.07	254.16	236.15	237.13	226.17	208.16	209.14	271.19	253.18	254.16	270.18	127.58	113.58	136.09	P	2805.51	2787.50	2788.48	2779.53	2761.52	2762.50	2762.50	2744.49	2745.48	2763.51	2745.50	2746.48	1403.25	1390.27	1381.75	1382.26	27
3	30.03	311.18	293.17	294.16	283.19	265.18	266.16	328.21	310.20	311.18	327.20	156.09	142.09	164.61	G	2708.46	2690.45	2691.43	2682.48	2664.47	2665.45	2665.45	2647.44	2648.42	2666.46	2648.45	2649.43	1354.73	1341.74	1333.23	1333.73	26
4	70.07	408.24	390.23	391.21	380.24	362.23	363.21	425.26	407.25	408.24	424.26	204.62	190.62	213.13	P	2651.44	2633.42	2634.41	2625.46	2607.45	2608.43	2608.43	2590.42	2591.40	2609.44	2591.43	2592.41	1326.22	1313.23	1304.71	1305.22	25
5	70.07	505.29	487.28	488.26	477.29	459.28	460.27	522.32	504.31	505.29	521.31	253.14	239.15	261.66	P	2554.38	2536.37	2537.36	2528.40	2510.39	2511.38	2511.38	2493.37	2494.35	2512.38	2494.37	2495.36	1277.69	1264.70	1256.19	1256.69	24
6	30.03	562.31	544.30	545.28	534.32	516.30	517.29	579.34	561.33	562.31	578.33	281.66	267.66	290.17	G	2457.33	2439.32	2440.30	2431.35	2413.34	2414.32	2414.32	2396.31	2397.30	2415.33	2397.32	2398.30	1229.16	1216.18	1207.66	1208.17	23
7	86.10	675.39	657.38	658.37	647.40	629.39	630.37	692.42	674.41	675.39	691.41	338.20	324.20	346.71	L	2400.31	2382.30	2383.28	2374.33	2356.32	2357.30	2357.30	2339.29	2340.27	2358.31	2340.30	2341.28	1200.65	1187.66	1179.15	1179.65	22
8	101.07	803.45	785.44	786.43	775.46	757.45	758.43	820.48	802.47	803.45	819.47	402.23	388.23	410.74	Q	2287.22	2269.21	2270.20	2261.25	2243.23	2244.22	2244.22	2226.21	2227.19	2245.23	2227.21	2228.20	1144.11	1131.12	1122.61	1123.11	21
9	30.03	860.47	842.46	843.45	832.48	814.47	815.45	877.50	859.49	860.47	876.49	430.74	416.74	439.25	G	2159.17	2141.16	2142.14	2133.19	2115.18	2116.16	2116.16	2098.15	2099.13	2117.17	2099.16	2100.14	1080.08	1067.09	1058.58	1059.08	20
10	129.11	1016.58	998.56	999.55	988.58	970.57	971.55	1033.60	1015.59	1016.58	1032.59	508.79	494.79	517.30	R	2102.14	2084.13	2085.12	2076.16	2058.15	2059.14	2059.14	2041.13	2042.11	2060.15	2042.14	2043.12	1051.57	1038.58	1030.07	1030.57	19
11	86.10	1129.66	1111.65	1112.63	1101.66	1083.65	1084.64	1146.69	1128.68	1129.66	1145.68	565.33	551.33	573.84	L	1946.04	1928.03	1929.02	1920.06	1902.05	1903.04	1903.04	1885.03	1886.01	1904.04	1886.03	1887.02	973.52	960.53	952.02	952.52	18
12	101.07	1257.72	1239.71	1240.69	1229.72	1211.71	1212.70	1274.74	1256.73	1257.72	1273.74	629.36	615.36	637.87	Q	1832.96	1814.95	1815.93	1806.98	1788.97	1789.95	1789.95	1771.94	1772.93	1790.96	1772.95	1773.93	916.98	903.99	895.48	895.98	17
13	129.11	1413.82	1395.81	1396.79	1385.82	1367.81	1368.80	1430.85	1412.84	1413.82	1429.84	707.41	693.41	715.92	R	1704.90	1686.89	1687.87	1678.92	1660.91	1661.89	1661.89	1643.88	1644.87	1662.90	1644.89	1645.87	852.95	839.96	831.45	831.95	16
14	86.10	1526.90	1508.89	1509.88	1498.91	1480.90	1481.88	1543.93	1525.92	1526.90	1542.92	763.95	749.95	772.47	L	1548.80	1530.79	1531.77	1522.82	1504.81	1505.79	1505.79	1487.78	1488.77	1506.80	1488.79	1489.77	774.90	761.91	753.40	753.90	15
15	86.10	1639.99	1621.98	1622.96	1611.99	1593.98	1594.97	1657.01	1639.00	1639.99	1656.01	820.49	806.50	829.01	L	1435.72	1417.70	1418.69	1409.74	1391.73	1392.71	1392.71	1374.70	1375.68	1393.72	1375.71	1376.69	718.36	705.37	696.85	697.36	14
16	101.07	1768.05	1750.04	1751.02	1740.05	1722.04	1723.02	1785.07	1767.06	1768.05	1784.06	884.52	870.53	893.04	Q	1322.63	1304.62	1305.60	1296.65	1278.64	1279.62	1279.62	1261.61	1262.60	1280.63	1262.62	1263.61	661.82	648.83	640.31	640.82	13
17	44.05	1839.08	1821.07	1822.06	1811.09	1793.08	1794.06	1856.11	1838.10	1839.08	1855.10	920.04	906.04	928.55	A	1194.57	1176.56	1177.55	1168.59	1150.58	1151.57	1151.57	1133.56	1134.54	1152.57	1134.56	1135.55	597.79	584.80	576.28	576.79	12
18	87.06	1953.13	1935.12	1936.10	1925.13	1907.12	1908.10	1970.15	1952.14	1953.13	1969.15	977.06	963.07	985.58	N	1123.54	1105.52	1106.51	1097.56	1079.55	1080.53	1080.53	1062.52	1063.50	1081.54	1063.53	1064.51	562.27	549.28	540.76	541.27	11
19	30.03	2010.15	1992.14	1993.12	1982.15	1964.14	1965.13	2027.17	2009.16	2010.15	2026.17	1005.57	991.58	1014.09	G	1009.49	991.48	992.47	983.51	965.50	966.49	966.49	948.48	949.46	967.49	949.48	950.47	505.25	492.26	483.74	484.25	10
20	87.06	2124.19	2106.18	2107.16	2096.20	2078.18	2079.17	2141.22	2123.21	2124.19	2140.21	1062.60	1048.60	1071.11	N	952.47	934.46	935.44	926.49	908.48	909.46	909.46	891.45	892.44	910.47	892.46	893.45	476.74	463.75	455.23	455.74	9
21	110.07	2261.25	2243.24	2244.22	2233.25	2215.24	2216.23	2278.28	2260.27	2261.25	2277.27	1131.12	1117.13	1139.64	H	838.43	820.42	821.40	812.45	794.44	795.42	795.42	777.41	778.39	796.43	778.42	779.40	419.71	406.72	398.21	398.71	8
22	44.05	2332.29	2314.28	2315.26	2304.29	2286.28	2287.26	2349.31	2331.30	2332.29	2348.31	1166.64	1152.65	1175.16	A	701.37	683.36	684.34	675.39	657.38	658.36	658.36	640.35	641.34	659.37	641.36	642.34	351.18	338.19	329.68	330.19	7
23	44.05	2403.32	2385.31	2386.30	2375.33	2357.32	2358.30	2420.35	2402.34	2403.32	2419.34	1202.16	1188.16	1210.68	A	630.33	612.32	613.31	604.35	586.34	587.33	587.33	569.32	570.30	588.33	570.32	571.31	315.67	302.68	294.16	294.67	6
24	30.03	2460.34	2442.33	2443.32	2432.35	2414.34	2415.32	2477.37	2459.36	2460.34	2476.36	1230.67	1216.67	1239.19	G	559.29	541.28	542.27	533.32	515.31	516.29	516.29	498.28	499.26	517.30	499.29	500.27	280.15	267.16	258.64	259.15	5
25	86.10	2573.43	2555.42	2556.40	2545.43	2527.42	2528.41	2590.46	2572.45	2573.43	2589.45	1287.21	1273.22	1295.73	I	502.27	484.26	485.25	476.29	458.28	459.27	459.27	441.26	442.24	460.27	442.26	443.25	251.64	238.65	230.13	230.64	4
26	86.10	2686.51	2668.50	2669.49	2658.52	2640.51	2641.49	2703.54	2685.53	2686.51	2702.53	1343.76	1329.76	1352.27	L	389.19	371.18	372.16	363.21	345.20	346.18	346.18	328.17	329.16	347.19	329.18	330.16	195.09	182.11	173.59	174.10	3
27	74.06	2787.56	2769.55	2770.53	2759.57	2741.55	2742.54	2804.59	2786.58	2787.56	2803.58	1394.28	1380.28	1402.79	T	276.11	258.09	259.08	250.13	232.12	233.10	233.10	215.09	216.07	234.11	216.10	217.08	138.55	125.56	117.05	117.55	2
28	103.07														M(-.98)	175.06	157.05	158.03	149.08	131.07	132.05	132.05	114.04	115.02	133.06	115.05	116.03	88.03	75.04	66.53	67.03	1



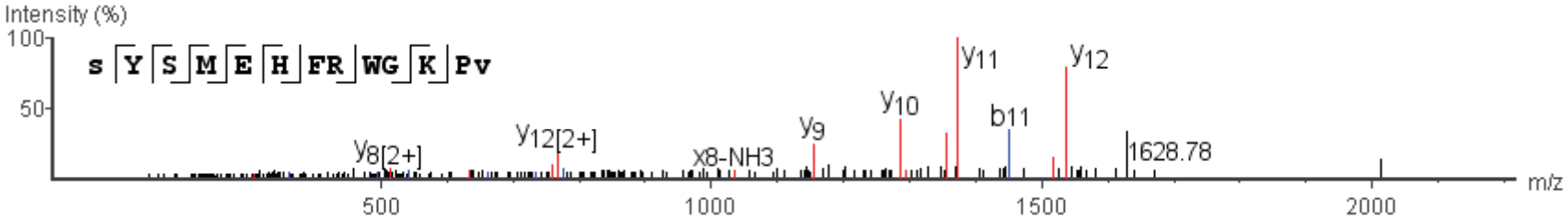
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Protachykinin-1	P41539|TKN1_MOUSE	Substance P	R.RPKPQQFFGLM(-.98).G	94.08	-0.8	674.3708	2



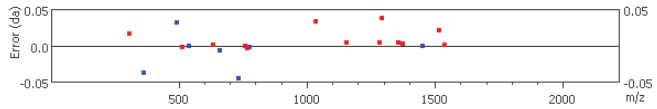
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	129.11	157.11	139.10	140.08	129.11	111.10	112.09	174.14	156.13	157.11	173.13	79.05	65.06	87.57	R																	11
2	70.07	254.16	236.15	237.13	226.17	208.16	209.14	271.19	253.18	254.16	270.18	127.58	113.58	136.09	P	1217.63	1199.61	1200.59	1191.63	1173.63	1174.61	1174.61	1156.60	1157.58	1175.62	1157.61	1158.59	609.31	596.32	587.81	588.31	10
3	101.11	382.26	364.25	365.23	354.26	336.25	337.23	399.28	381.27	382.26	398.28	191.63	177.63	200.14	K	1120.56	1102.55	1103.54	1094.58	1076.58	1077.55	1077.55	1059.55	1060.53	1078.56	1060.56	1061.54	560.78	547.79	539.28	539.78	9
4	70.07	479.31	461.30	462.28	451.31	433.30	434.29	496.34	478.33	479.31	495.33	240.15	226.16	248.67	P	992.47	974.46	975.44	966.49	948.48	949.46	949.46	931.45	932.44	950.47	932.46	933.44	496.73	483.75	475.23	475.74	8
5	101.07	607.37	589.36	590.34	579.37	561.36	562.35	624.40	606.38	607.37	623.39	304.18	290.19	312.70	Q	895.42	877.41	878.39	869.44	851.43	852.41	852.41	834.40	835.38	853.42	835.41	836.39	448.21	435.22	426.71	427.21	7
6	101.07	735.43	717.42	718.40	707.43	689.42	690.40	752.45	734.44	735.43	751.45	368.21	354.22	376.73	Q	767.36	749.35	750.33	741.38	723.37	724.35	724.35	706.34	707.33	725.36	707.35	708.33	384.18	371.19	362.68	363.18	6
7	120.08	882.50	864.48	865.47	854.50	836.49	837.47	899.52	881.51	882.50	898.51	441.75	427.75	450.26	F	639.30	621.29	622.27	613.32	595.31	596.29	596.29	578.28	579.27	597.30	579.29	580.27	320.15	307.16	298.65	299.15	5
8	120.08	1029.56	1011.55	1012.54	1001.57	983.56	984.53	1046.59	1028.58	1029.56	1045.58	515.28	501.28	523.80	F	492.23	474.22	475.20	466.25	448.24	449.23	449.23	431.21	432.20	450.24	432.22	433.21	246.62	233.63	225.11	225.62	4
9	30.03	1086.59	1068.57	1069.56	1058.59	1040.58	1041.56	1103.61	1085.60	1086.59	1102.60	543.79	529.79	552.31	G	345.16	327.15	328.14	319.18	301.17	302.16	302.16	284.15	285.13	303.16	285.15	286.14	173.08	160.09	151.58	152.08	3
10	86.10	1199.67	1181.66	1182.64	1171.67	1153.66	1154.65	1216.70	1198.69	1199.67	1215.69	600.33	586.34	608.85	L	288.14	270.13	271.11	262.16	244.15	245.14	245.14	227.12	228.11	246.14	228.13	229.12	144.57	131.58	123.07	123.57	2
11	103.07														M(-.98)	175.06	157.05	158.03	149.08	131.07	132.05	132.05	114.04	115.02	133.06	115.05	116.03	88.03	75.04	66.53	67.03	1



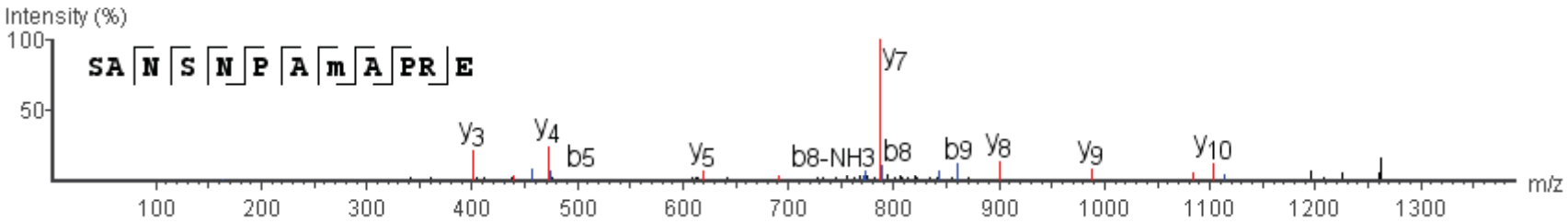
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Pro-opiomelanocortin	P01193|COLI_MOUSE	Melanotropin alpha	R.S(+42.01)YSMEHFRWGKPV(-.98).G	43.54	4.8	555.6075	3



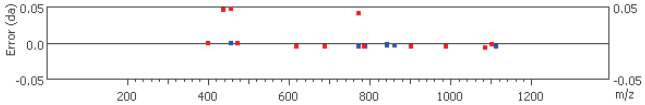
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	102.05	130.05	112.04	113.02	102.05	84.04	85.03	147.08	129.07	130.05	146.07	65.52	51.53	74.04	S(+42.01)																	13
2	136.08	293.11	275.10	276.09	265.12	247.11	248.09	310.14	292.13	293.11	309.13	147.06	133.06	155.57	Y	1561.74	1543.73	1544.71	1535.76	1517.73	1518.73	1518.73	1500.72	1501.71	1519.74	1501.73	1502.72	781.37	768.38	759.87	760.37	12
3	60.04	380.15	362.17	363.12	352.15	334.14	335.12	397.17	379.16	380.15	396.16	190.57	176.58	199.09	S	1398.68	1380.67	1381.65	1372.69	1354.69	1355.67	1355.67	1337.66	1338.64	1356.68	1338.67	1339.65	699.84	686.85	678.34	678.84	11
4	104.05	511.19	493.18	494.13	483.19	465.18	466.16	528.21	510.20	511.19	527.20	256.09	242.10	264.61	M	1311.65	1293.64	1294.58	1285.66	1267.66	1268.64	1268.64	1250.63	1251.61	1269.65	1251.64	1252.62	656.32	643.33	634.82	635.32	10
5	102.06	640.23	622.22	623.20	612.23	594.22	595.21	657.26	639.24	640.23	656.25	320.61	306.62	329.13	E	1180.61	1162.59	1163.58	1154.62	1136.62	1137.60	1137.60	1119.59	1120.57	1138.61	1120.60	1121.58	590.80	577.81	569.30	569.80	9
6	110.07	777.29	759.28	760.26	749.29	731.28	732.27	794.31	776.30	777.29	793.31	389.14	375.15	397.66	H	1051.56	1033.55	1034.50	1025.58	1007.57	1008.56	1008.56	990.55	991.53	1009.56	991.55	992.54	526.28	513.29	504.78	505.28	8
7	120.08	924.36	906.35	907.33	896.36	878.35	879.33	941.38	923.37	924.36	940.37	462.68	448.68	471.19	F	914.50	896.49	897.48	888.52	870.51	871.50	871.50	853.49	854.47	872.51	854.49	855.48	457.75	444.76	436.25	436.75	7
8	129.11	1080.46	1062.45	1063.43	1052.46	1034.45	1035.43	1097.48	1079.47	1080.46	1096.48	540.73	526.73	549.24	R	767.44	749.42	750.41	741.46	723.45	724.43	724.43	706.42	707.40	725.44	707.43	708.41	384.22	371.23	362.71	363.22	6
9	159.09	1266.54	1248.53	1249.51	1238.54	1220.53	1221.51	1283.56	1265.55	1266.54	1282.56	633.77	619.77	642.28	W	611.33	593.32	594.31	585.35	567.34	568.33	568.33	550.32	551.30	569.34	551.33	552.31	306.17	293.18	284.66	285.17	5
10	30.03	1323.56	1305.55	1306.53	1295.56	1277.55	1278.54	1340.58	1322.57	1323.56	1339.58	662.29	648.28	670.79	G	425.25	407.24	408.23	399.28	381.26	382.25	382.25	364.24	365.22	383.26	365.25	366.23	213.13	200.14	191.62	192.13	4
11	101.11	1451.65	1433.64	1434.63	1423.66	1405.65	1406.63	1468.68	1450.67	1451.65	1467.67	726.33	712.33	734.88	K	368.23	350.22	351.21	342.25	324.24	325.23	325.23	307.20	308.20	326.23	308.22	309.21	184.62	171.63	163.11	163.62	3
12	70.07	1548.71	1530.69	1531.68	1520.71	1502.70	1503.68	1565.73	1547.72	1548.71	1564.72	774.85	760.86	783.37	P	240.14	222.13	223.11	214.16	196.15	197.13	197.13	179.12	180.11	198.14	180.13	181.11	120.57	107.58	99.07	99.57	2
13	71.10														V(-.98)	143.09	125.08	126.06	117.11	99.10	100.08	100.08	82.07	83.05	101.09	83.08	84.06	72.04	59.05	50.54	51.04	1



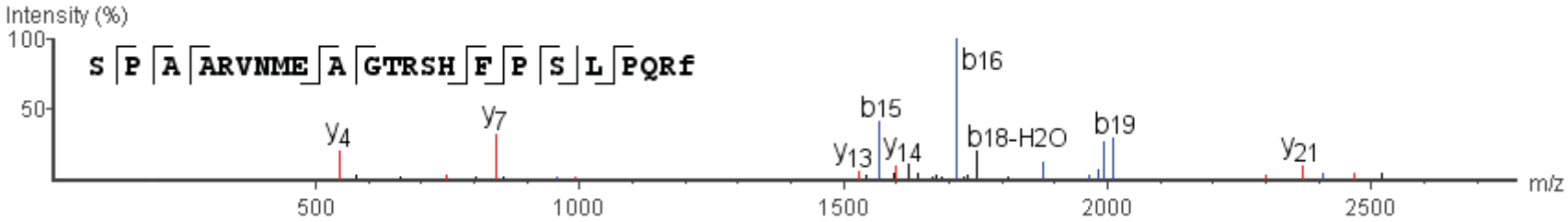
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Somatostatin	P60041|SMS_MOUSE		R.SANSNPAM(+15.99)APRE.R	72.82	2.1	630.7868	2



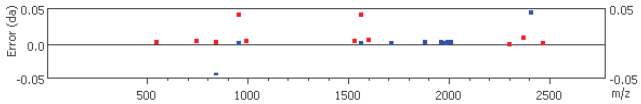
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	60.04	88.04	70.03	71.01	60.04	42.03	43.02	105.07	87.06	88.04	104.06	44.52	30.52	53.03	S																	12
2	44.05	159.08	141.07	142.05	131.08	113.07	114.05	176.10	158.09	159.08	175.10	80.04	66.04	88.55	A	1199.51	1181.50	1182.48	1173.53	1155.52	1156.50	1156.50	1138.49	1139.47	1157.51	1139.50	1140.48	600.25	587.26	578.75	579.25	11
3	87.06	273.12	255.11	256.09	245.12	227.11	228.10	290.15	272.14	273.12	289.14	137.06	123.06	145.57	N	1128.47	1110.46	1111.44	1102.49	1084.49	1085.46	1085.46	1067.45	1068.44	1086.47	1068.46	1069.44	564.73	551.74	543.23	543.74	10
4	60.04	360.15	342.14	343.12	332.16	314.15	315.13	377.18	359.17	360.15	376.17	180.58	166.58	189.09	S	1014.43	996.42	997.40	988.45	970.44	971.42	971.42	953.41	954.39	972.43	954.42	955.40	507.71	494.72	486.21	486.71	9
5	87.06	474.19	456.18	457.17	446.20	428.19	429.17	491.22	473.21	474.19	490.21	237.60	223.60	246.11	N	927.39	909.38	910.37	901.42	883.40	884.39	884.39	866.38	867.36	885.40	867.38	868.37	464.20	451.21	442.69	443.20	8
6	70.07	571.25	553.24	554.22	543.25	525.24	526.23	588.27	570.26	571.25	587.27	286.12	272.13	294.64	P	813.35	795.34	796.32	787.38	769.36	770.34	770.34	752.33	753.32	771.31	753.34	754.33	407.18	394.19	385.67	386.18	7
7	44.05	642.28	624.27	625.26	614.29	596.28	597.26	659.31	641.30	642.28	658.30	321.64	307.64	330.16	A	716.30	698.29	699.27	690.32	672.31	673.29	673.29	655.28	656.26	674.30	656.29	657.27	358.65	345.66	337.15	337.65	6
8	120.04	789.32	771.31	772.29	761.32	743.31	744.29	806.34	788.33	789.32	805.33	395.16	381.16	403.67	M(+15.99)	645.26	627.25	628.23	619.29	601.27	602.25	602.25	584.24	585.23	603.26	585.25	586.24	323.13	310.14	301.63	302.13	5
9	44.05	860.36	842.34	843.33	832.36	814.35	815.33	877.38	859.37	860.36	876.37	430.68	416.68	439.19	A	498.23	480.22	481.20	472.25	454.24	455.22	455.22	437.21	438.20	456.18	438.22	439.16	249.62	236.63	228.11	228.62	4
10	70.07	957.41	939.39	940.38	929.41	911.40	912.38	974.43	956.42	957.41	973.42	479.20	465.21	487.72	P	427.19	409.18	410.17	401.22	383.20	384.19	384.19	366.18	367.16	385.20	367.18	368.17	214.10	201.11	192.59	193.10	3
11	129.11	1113.51	1095.50	1096.48	1085.51	1067.50	1068.48	1130.53	1112.52	1113.51	1129.53	557.25	543.26	565.77	R	330.14	312.13	313.11	304.16	286.15	287.13	287.13	269.12	270.11	288.14	270.13	271.12	165.57	152.58	144.07	144.57	2
12	102.06														E	174.04	156.03	157.01	148.06	130.05	131.03	131.03	113.02	114.01	132.04	114.03	115.01	87.52	74.53	66.02	66.52	1



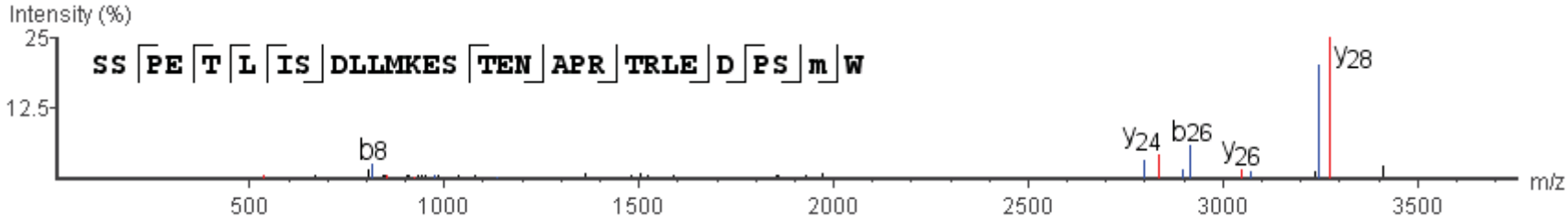
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
FMRFamide-related peptides	Q9ESQ8|RFRP_MOUSE		R.SPAARVNMEAGTRSHFPSLPQRF(-.98).G	73.45	-1	639.5809	4



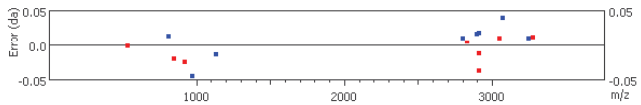
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	60.04	88.04	70.03	71.01	60.04	42.03	43.02	105.07	87.06	88.04	104.06	44.52	30.52	53.03	S																	23
2	70.07	185.09	167.08	168.07	157.10	139.09	140.07	202.12	184.11	185.09	201.11	93.05	79.05	101.56	P	2494.26	2476.25	2477.23	2468.27	2450.27	2451.25	2451.25	2433.24	2434.22	2452.26	2434.25	2435.23	1247.63	1234.64	1226.12	1226.63	22
3	44.05	256.13	238.12	239.10	228.13	210.12	211.11	273.16	255.15	256.13	272.15	128.56	114.57	137.08	A	2397.20	2379.19	2380.18	2371.21	2353.21	2354.20	2354.20	2336.19	2337.17	2355.20	2337.19	2338.18	1199.10	1186.11	1177.60	1178.10	21
4	44.05	327.17	309.16	310.14	299.17	281.16	282.14	344.19	326.18	327.17	343.19	164.08	150.09	172.60	A	2326.17	2308.16	2309.14	2300.19	2282.18	2283.16	2283.16	2265.15	2266.13	2284.17	2266.16	2267.14	1163.58	1150.59	1142.08	1142.58	20
5	129.11	483.27	465.26	466.24	455.27	437.26	438.25	500.29	482.28	483.27	499.29	242.13	228.14	250.65	R	2255.13	2237.12	2238.10	2229.15	2211.14	2212.12	2212.12	2194.11	2195.10	2213.13	2195.12	2196.10	1128.06	1115.07	1106.56	1107.07	19
6	72.08	582.34	564.33	565.31	554.34	536.33	537.31	599.36	581.35	582.34	598.36	291.67	277.67	300.18	V	2099.03	2081.02	2082.00	2073.05	2055.04	2056.02	2056.02	2038.01	2038.99	2057.03	2039.02	2040.00	1050.01	1037.02	1028.51	1029.01	18
7	87.06	696.38	678.37	679.35	668.38	650.37	651.36	713.41	695.40	696.38	712.40	348.69	334.69	357.20	N	1999.96	1981.95	1982.93	1973.98	1955.97	1956.95	1956.95	1938.94	1939.93	1957.96	1939.95	1940.93	1000.48	987.49	978.98	979.48	17
8	104.05	827.42	809.41	810.39	799.42	781.41	782.40	844.45	826.44	827.42	843.48	414.21	400.21	422.72	M	1885.92	1867.91	1868.89	1859.94	1841.93	1842.91	1842.91	1824.90	1825.88	1843.92	1825.91	1826.89	943.46	930.47	921.96	922.46	16
9	102.06	956.46	938.45	939.44	928.47	910.46	911.44	973.49	955.48	956.46	972.48	478.73	464.73	487.24	E	1754.88	1736.87	1737.85	1728.90	1710.89	1711.87	1711.87	1693.86	1694.84	1712.88	1694.87	1695.85	877.94	864.95	856.43	856.94	15
10	44.05	1027.50	1009.49	1010.47	999.50	981.49	982.48	1044.53	1026.52	1027.50	1043.52	514.25	500.25	522.76	A	1625.83	1607.82	1608.81	1599.85	1581.84	1582.83	1582.83	1564.82	1565.76	1583.84	1565.82	1566.81	813.42	800.43	791.91	792.42	14
11	30.03	1084.52	1066.51	1067.49	1056.53	1038.52	1039.50	1101.55	1083.54	1084.52	1100.54	542.76	528.76	551.27	G	1554.80	1536.79	1537.77	1528.81	1510.81	1511.79	1511.79	1493.78	1494.76	1512.80	1494.79	1495.77	777.90	764.91	756.40	756.90	13
12	74.06	1185.57	1167.56	1168.54	1157.57	1139.56	1140.55	1202.60	1184.59	1185.57	1201.59	593.28	579.29	601.80	T	1497.78	1479.76	1480.75	1471.80	1453.79	1454.77	1454.77	1436.76	1437.74	1455.78	1437.77	1438.75	749.39	736.40	727.88	728.39	12
13	129.11	1341.67	1323.66	1324.64	1313.67	1295.66	1296.65	1358.70	1340.69	1341.67	1357.69	671.33	657.34	679.85	R	1396.73	1378.72	1379.70	1370.75	1352.74	1353.72	1353.72	1335.71	1336.69	1354.73	1336.72	1337.70	698.86	685.87	677.36	677.86	11
14	60.04	1428.70	1410.69	1411.67	1400.71	1382.70	1383.68	1445.73	1427.72	1428.70	1444.72	714.85	700.85	723.36	S	1240.63	1222.62	1223.60	1214.65	1196.64	1197.62	1197.62	1179.61	1180.59	1198.63	1180.62	1181.60	620.81	607.82	599.31	599.81	10
15	110.07	1565.76	1547.75	1548.73	1537.77	1519.76	1520.74	1582.79	1564.78	1565.76	1581.78	783.38	769.38	791.89	H	1153.59	1135.58	1136.57	1127.61	1109.60	1110.59	1110.59	1092.58	1093.56	1111.60	1093.59	1094.57	577.30	564.31	555.79	556.30	9
16	120.08	1712.83	1694.82	1695.80	1684.83	1666.82	1667.81	1729.86	1711.85	1712.83	1728.85	856.91	842.92	865.43	F	1016.54	998.52	999.51	990.55	972.55	973.53	973.53	955.52	956.46	974.54	956.53	957.51	508.77	495.78	487.26	487.77	8
17	70.07	1809.88	1791.87	1792.85	1781.89	1763.88	1764.86	1826.91	1808.90	1809.88	1825.90	905.44	891.44	913.95	P	869.47	851.46	852.44	843.48	825.48	826.46	826.46	808.45	809.43	827.47	809.46	810.44	435.23	422.24	413.73	414.23	7
18	88.04	1896.91	1878.90	1879.89	1868.92	1850.91	1851.89	1913.94	1895.93	1896.91	1912.93	948.96	934.96	957.47	S	772.41	754.40	755.39	746.43	728.42	729.41	729.41	711.40	712.38	730.42	712.41	713.39	366.71	373.72	365.20	365.71	6
19	86.10	2009.99	1991.98	1992.97	1982.00	1963.99	1964.98	2027.02	2009.01	2009.99	2026.02	1005.50	991.50	1014.01	L	685.38	667.37	668.36	659.40	641.39	642.38	642.38	624.37	625.35	643.38	625.37	626.36	343.19	330.20	321.69	322.19	5
20	70.07	2107.05	2089.04	2090.02	2079.06	2061.05	2062.03	2124.08	2106.07	2107.05	2123.07	1054.03	1040.03	1062.54	P	572.30	554.29	555.27	546.31	528.31	529.29	529.29	511.28	512.26	530.30	512.29	513.27	286.65	273.66	265.15	265.65	4
21	101.07	2235.11	2217.10	2218.08	2207.11	2189.10	2190.09	2252.14	2234.13	2235.11	2251.13	1118.05	1104.06	1126.57	Q	475.25	457.23	458.22	449.27	431.26	432.24	432.24	414.23	415.21	433.25	415.24	416.22	238.12	225.13	216.62	217.12	3
22	129.11	2391.21	2373.20	2374.18	2363.22	2345.20	2346.19	2408.24	2390.23	2391.21	2407.18	1196.11	1182.11	1204.62	R	347.19	329.18	330.16	321.21	303.20	304.18	304.18	286.17	287.15	305.19	287.18	288.16	174.09	161.10	152.59	153.09	2
23	119.10														F(-.98)	191.09	173.08	174.06	165.11	147.10	148.08	148.08	130.07	131.05	149.09	131.08	132.06	96.04	83.05	74.54	75.04	1



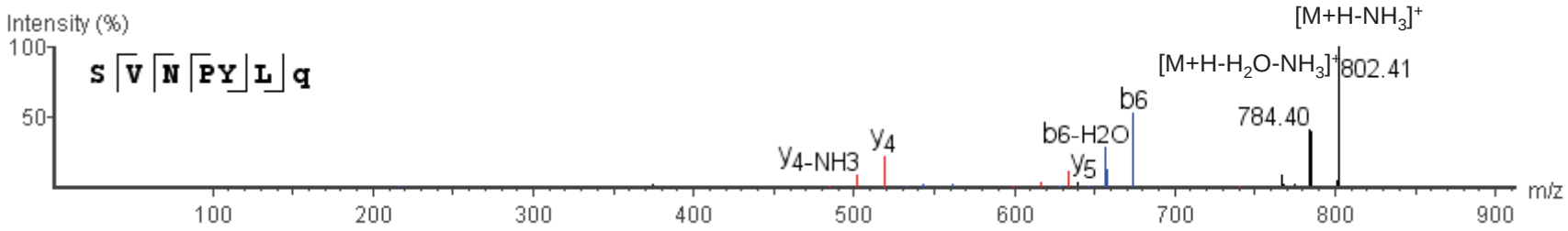
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Pro-neuropeptide Y	P57774|NPY_MOUSE		R.SSPETLISDLLMKESTENAPRTRLEDPSM(+15.99)W	62.4	-13	863.1684	4



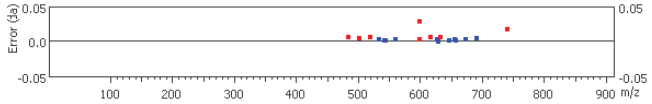
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	60.04	88.04	70.03	71.01	60.04	42.03	43.02	105.07	87.06	88.04	104.06	44.52	30.52	53.03	S																	30
2	60.04	175.07	157.06	158.04	147.08	129.07	130.05	192.10	174.09	175.07	191.09	88.04	74.04	96.55	S	3388.60	3370.59	3371.57	3362.62	3344.61	3345.59	3345.59	3327.58	3328.57	3346.60	3328.59	3329.57	1694.80	1681.81	1673.30	1673.80	29
3	70.07	272.12	254.11	255.10	244.13	226.12	227.10	289.15	271.14	272.12	288.14	136.56	122.56	145.08	P	3301.57	3283.56	3284.54	3275.57	3257.58	3258.56	3258.56	3240.55	3241.53	3259.57	3241.56	3242.54	1651.28	1638.29	1629.78	1630.28	28
4	102.06	401.17	383.16	384.14	373.17	355.16	356.15	418.19	400.18	401.17	417.19	201.08	187.09	209.60	E	3204.51	3186.50	3187.49	3178.53	3160.52	3161.51	3161.51	3143.50	3144.48	3162.52	3144.50	3145.49	1602.76	1589.77	1581.25	1581.76	27
5	74.06	502.21	484.20	485.19	474.22	456.21	457.19	519.24	501.23	502.21	518.23	251.61	237.61	260.12	T	3075.47	3057.46	3058.44	3049.48	3031.48	3032.46	3032.46	3014.45	3015.44	3033.47	3015.46	3016.45	1538.24	1525.25	1516.73	1517.24	26
6	86.10	615.30	597.29	598.27	587.30	569.29	570.28	632.33	614.32	615.30	631.32	308.15	294.15	316.66	L	2974.42	2956.41	2957.40	2948.44	2930.43	2931.42	2931.42	2913.41	2914.43	2932.43	2914.43	2915.40	1487.71	1474.72	1466.21	1466.71	25
7	86.10	728.38	710.37	711.36	700.39	682.38	683.36	745.41	727.40	728.38	744.40	364.69	350.69	373.21	I	2861.34	2843.33	2844.31	2835.35	2817.35	2818.33	2818.33	2800.32	2801.31	2819.34	2801.33	2802.31	1431.17	1418.18	1409.67	1410.17	24
8	60.04	815.40	797.40	798.39	787.42	769.41	770.39	832.44	814.43	815.40	831.43	408.21	394.21	416.72	S	2748.26	2730.24	2731.23	2722.28	2704.27	2705.25	2705.25	2687.24	2688.22	2706.26	2688.25	2689.23	1374.63	1361.64	1353.12	1353.63	23
9	88.04	930.44	912.43	913.42	902.45	884.44	885.42	947.47	929.46	930.44	946.46	465.72	451.72	474.23	D	2661.22	2643.21	2644.20	2635.24	2617.23	2618.22	2618.22	2600.21	2601.19	2619.23	2601.21	2602.20	1331.11	1318.12	1309.61	1310.11	22
10	86.10	1043.53	1025.52	1026.50	1015.53	997.52	998.50	1060.55	1042.54	1043.53	1059.55	522.26	508.27	530.78	L	2546.20	2528.19	2529.17	2520.22	2502.21	2503.19	2503.19	2485.18	2486.16	2504.20	2486.19	2487.17	1273.60	1260.61	1252.09	1252.60	21
11	86.10	1156.61	1138.60	1139.58	1128.62	1110.60	1111.59	1173.64	1155.63	1156.61	1172.63	578.81	564.81	587.32	L	2433.11	2415.10	2416.09	2407.13	2389.12	2390.11	2390.11	2372.10	2373.08	2391.11	2373.10	2374.09	1217.06	1204.07	1195.55	1196.06	20
12	104.05	1287.65	1269.64	1270.62	1259.66	1241.65	1242.63	1304.68	1286.67	1287.65	1303.67	644.33	630.33	652.84	M	2320.03	2302.02	2303.00	2294.05	2276.04	2277.02	2277.02	2259.01	2260.00	2278.03	2260.02	2261.00	1160.51	1147.52	1139.01	1139.52	19
13	101.11	1415.75	1397.74	1398.72	1387.75	1369.74	1370.72	1432.77	1414.76	1415.75	1431.76	708.37	694.38	716.89	K	2188.99	2170.98	2171.96	2163.01	2145.00	2145.98	2145.98	2127.97	2128.95	2146.99	2128.98	2129.96	1094.99	1082.00	1073.49	1073.99	18
14	102.06	1544.79	1526.78	1527.76	1516.79	1498.78	1499.77	1561.82	1543.80	1544.79	1560.81	772.89	758.90	781.41	E	2060.89	2042.88	2043.87	2034.91	2016.90	2017.89	2017.89	1999.88	2000.86	2018.89	2000.88	2001.87	1030.95	1017.96	1009.44	1009.95	17
15	60.04	1631.82	1613.81	1614.79	1603.83	1585.81	1586.80	1648.85	1630.84	1631.82	1647.84	816.41	802.41	824.92	S	1931.85	1913.84	1914.82	1905.87	1887.86	1888.84	1888.84	1870.83	1871.82	1889.85	1871.84	1872.82	966.43	953.44	944.92	945.43	16
16	74.06	1732.87	1714.86	1715.84	1704.87	1686.86	1687.85	1749.89	1731.88	1732.87	1748.89	866.93	852.94	875.45	T	1844.82	1826.81	1827.79	1818.84	1800.83	1801.81	1801.81	1783.80	1784.79	1802.82	1784.81	1785.79	922.93	909.92	901.41	901.91	15
17	102.06	1861.91	1843.90	1844.88	1833.92	1815.90	1816.89	1878.94	1860.93	1861.91	1877.93	931.46	917.46	939.97	E	1743.77	1725.76	1726.74	1717.79	1699.78	1700.76	1700.76	1682.75	1683.74	1701.77	1683.76	1684.75	872.39	859.40	850.88	851.41	14
18	87.06	1975.95	1957.94	1958.93	1947.96	1929.95	1930.93	1992.98	1974.97	1975.95	1991.97	988.48	974.52	996.99	N	1614.73	1596.72	1597.70	1588.75	1570.74	1571.72	1571.72	1553.71	1554.69	1572.73	1554.72	1555.70	807.86	794.87	786.36	786.86	13
19	44.05	2046.99	2028.98	2029.96	2019.00	2000.98	2001.97	2064.02	2046.01	2046.99	2063.01	1024.00	1010.00	1032.51	A	1500.69	1482.67	1483.66	1474.71	1456.70	1457.68	1457.68	1439.67	1440.65	1458.69	1440.68	1441.66	750.84	737.85	729.34	729.84	12
20	70.07	2144.04	2126.03	2127.02	2116.05	2098.04	2099.02	2161.07	2143.06	2144.04	2160.06	1072.52	1058.52	1081.04	P	1429.65	1411.64	1412.62	1403.67	1385.66	1386.64	1386.64	1368.63	1369.61	1387.65	1369.64	1370.62	715.32	702.33	693.82	694.32	11
21	129.11	2300.14	2282.13	2283.12	2272.15	2254.14	2255.12	2317.17	2299.16	2300.14	2316.16	1150.57	1136.59	1159.09	R	1332.60	1314.58	1315.57	1306.62	1288.61	1289.59	1289.59	1271.58	1272.56	1290.60	1272.59	1273.57	666.80	653.81	645.29	645.80	10
22	74.06	2401.19	2383.18	2384.17	2373.20	2355.19	2356.17	2418.22	2400.21	2401.19	2417.21	1201.10	1187.10	1209.61	T	1176.49	1158.48	1159.47	1150.51	1132.50	1133.49	1133.49	1115.48	1116.46	1134.50	1116.49	1117.47	588.75	575.76	567.24	567.75	9
23	129.11	2557.29	2539.28	2540.27	2529.30	2511.29	2512.27	2574.32	2556.31	2557.29	2573.31	1279.15	1265.15	1287.66	R	1075.45	1057.44	1058.42	1049.47	1031.46	1032.44	1032.44	1014.43	1015.41	1033.45	1015.44	1016.42	538.22	525.23	516.72	517.22	8
24	86.10	2670.38	2652.37	2653.35	2642.38	2624.37	2625.36	2687.40	2669.39	2670.38	2686.40	1335.69	1321.69	1344.20	L	919.35	901.33	902.32	893.37	875.36	876.34	876.34	858.33	859.31	877.35	859.34	860.32	460.17	447.18	438.67	439.17	7
25	102.06	2799.41	2781.41	2782.39	2771.42	2753.41	2754.40	2816.45	2798.44	2799.41	2815.44	1400.21	1386.21	1408.72	E	806.26	788.25	789.23	780.28	762.27	763.26	763.26	745.24	746.23	764.26	746.25	747.24	403.63	390.64	382.13	382.63	6
26	88.04	2914.43	2896.42	2897.42	2886.45	2868.44	2869.42	2931.47	2913.46	2914.43	2930.47	1457.72	1443.73	1466.24	D	677.22	659.21	660.19	651.24	633.23	634.21	634.21	616.20	617.19	635.22	617.21	618.19	339.11	326.12	317.61	318.11	5
27	70.07	3011.50	2993.49	2994.47	2983.50	2965.49	2966.48	3028.53	3010.52	3011.50	3027.52	1506.25	1492.25	1514.76	P	562.19	544.18	545.16	536.22	518.20	519.19	519.19	501.17	502.16	520.19	502.18	503.17	281.60	268.61	260.09	260.60	4
28	60.04	3098.53	3080.52	3081.50	3070.50	3052.53	3053.51	3115.56	3097.55	3098.53	3114.55	1549.77	1535.77	1558.28	S	465.14	447.13	448.11	439.16	421.15	422.13	422.13	404.12	405.11	423.14	405.13	406.11	233.07	220.08	211.57	212.07	3
29	120.04	3245.55	3227.55	3228.53	3217.57	3199.56	3200.54	3262.59	3244.58	3245.55	3261.58	1623.28	1609.28	1631.79	M(+15.99)	378.11	360.10	361.08	352.13	334.12	335.10	335.10	317.09	318.07	336.11	318.10	319.08	189.55	176.56	168.05	168.55	2
30	159.09														W	231.08	213.07	214.05	205.10	187.09	188.07	188.07	170.06	171.04	189.08	171.07	172.05	116.04	103.05	94.54	95.04	1



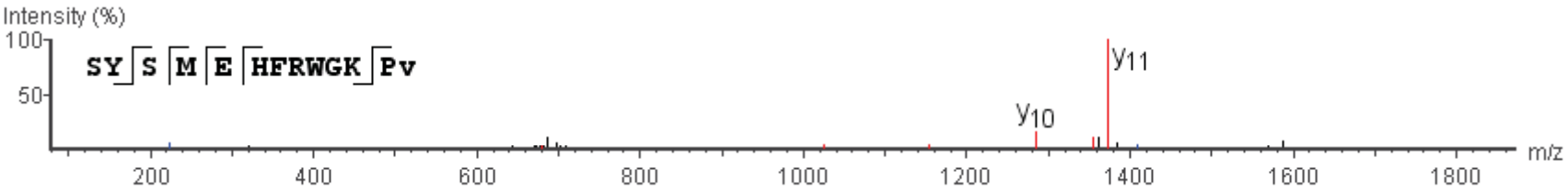
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Neuroendocrine protein 7B2	P12961|7B2_MOUSE		R.SVNPYLQ(-.98).G	49.82	2.8	819.4382	1



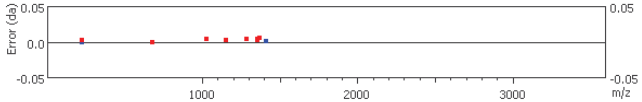
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	60.04	88.04	70.03	71.01	60.04	42.03	43.02	105.07	87.06	88.04	104.06	44.52	30.52	53.03	S																	7
2	72.08	187.11	169.10	170.08	159.11	141.10	142.09	204.14	186.12	187.11	203.13	94.05	80.06	102.57	V	758.39	740.36	741.36	732.41	714.40	715.38	715.38	697.37	698.35	716.39	698.38	699.36	379.69	366.70	358.19	358.69	6
3	87.06	301.15	283.14	284.12	273.16	255.15	256.13	318.18	300.17	301.15	317.17	151.08	137.08	159.59	N	659.32	641.31	642.29	633.33	615.33	616.31	616.31	598.30	599.28	617.32	599.28	600.29	330.16	317.17	308.66	309.16	5
4	70.07	398.20	380.19	381.18	370.21	352.20	353.18	415.23	397.22	398.20	414.22	199.60	185.60	208.12	P	545.28	527.27	528.25	519.29	501.29	502.27	502.27	484.25	485.24	503.28	485.27	486.25	273.14	260.15	251.63	252.14	4
5	136.08	561.27	543.26	544.24	533.27	515.26	516.25	578.29	560.28	561.27	577.29	281.13	267.14	289.65	Y	448.22	430.21	431.20	422.24	404.23	405.22	405.22	387.21	388.19	406.22	388.21	389.20	224.61	211.62	203.11	203.61	3
6	86.10	674.35	656.34	657.32	646.35	628.34	629.33	691.38	673.37	674.35	690.37	337.68	323.68	346.19	L	285.16	267.15	268.13	259.18	241.17	242.15	242.15	224.14	225.13	243.16	225.15	226.13	143.08	130.09	121.58	122.08	2
7	100.09														Q(-.98)	172.08	154.07	155.05	146.10	128.09	129.07	129.07	111.06	112.04	130.08	112.07	113.05	86.54	73.55	65.03	65.54	1



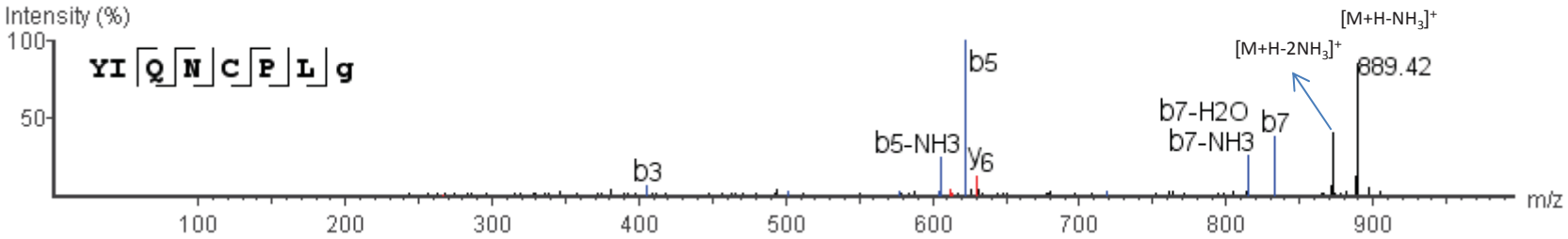
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Pro-opiomelanocortin	P01193|COLI_MOUSE		R.SYSMEHFRWGKPV(-.98).G	76.09	18	5416024	3



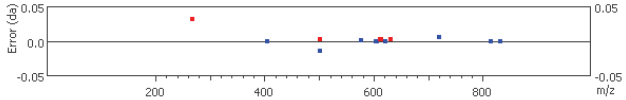
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	60.04	88.04	70.03	71.01	60.04	42.03	43.02	105.07	87.06	88.04	104.06	44.52	30.52	53.03	S																	13
2	136.08	251.10	233.09	234.08	223.11	205.10	206.08	268.13	250.12	251.10	267.12	126.05	112.05	134.57	Y	1561.74	1543.73	1544.71	1535.76	1517.75	1518.73	1518.73	1500.72	1501.71	1519.74	1501.73	1502.72	781.37	768.38	759.87	760.37	12
3	60.04	338.14	320.12	321.11	310.14	292.13	293.11	355.16	337.15	338.14	354.15	169.57	155.57	178.08	S	1398.68	1380.67	1381.65	1372.69	1354.68	1355.67	1355.67	1337.66	1338.64	1356.68	1338.67	1339.65	699.84	686.85	678.34	678.84	11
4	104.05	469.18	451.17	452.15	441.18	423.17	424.15	486.20	468.19	469.18	485.19	235.09	221.09	243.60	M	1311.65	1293.64	1294.62	1285.66	1267.66	1268.64	1268.64	1250.63	1251.61	1269.65	1251.64	1252.62	656.32	643.33	634.82	635.32	10
5	102.06	598.22	580.21	581.19	570.22	552.21	553.20	615.25	597.23	598.22	614.24	299.61	285.61	308.12	E	1180.61	1162.59	1163.58	1154.62	1136.62	1137.60	1137.60	1119.59	1120.57	1138.61	1120.60	1121.58	590.80	577.81	569.30	569.80	9
6	110.07	735.28	717.27	718.25	707.28	689.27	690.26	752.30	734.29	735.28	751.30	368.14	354.14	376.65	H	1051.56	1033.55	1034.54	1025.58	1007.57	1008.56	1008.56	990.55	991.53	1009.56	991.55	992.54	526.28	513.29	504.78	505.28	8
7	120.08	882.35	864.34	865.32	854.35	836.34	837.32	899.37	881.36	882.35	898.36	441.67	427.68	450.19	F	914.50	896.49	897.48	888.52	870.51	871.50	871.50	853.49	854.47	872.51	854.49	855.48	457.75	444.76	436.25	436.75	7
8	129.11	1038.45	1020.44	1021.42	1010.45	992.44	993.42	1055.47	1037.46	1038.45	1054.47	519.72	505.73	528.24	R	767.44	749.42	750.41	741.46	723.45	724.43	724.43	706.42	707.40	725.44	707.43	708.41	384.22	371.23	362.71	363.22	6
9	159.09	1224.53	1206.52	1207.50	1196.53	1178.52	1179.50	1241.55	1223.54	1224.53	1240.55	612.76	598.77	621.28	W	611.33	593.32	594.31	585.35	567.34	568.33	568.33	550.32	551.30	569.34	551.33	552.31	306.17	293.18	284.66	285.17	5
10	30.03	1281.55	1263.54	1264.52	1253.55	1235.54	1236.53	1298.57	1280.56	1281.55	1297.57	641.27	627.28	649.79	G	425.25	407.24	408.23	399.28	381.26	382.25	382.25	364.24	365.22	383.26	365.25	366.23	213.13	200.14	191.62	192.13	4
11	101.11	1409.64	1391.63	1392.62	1381.65	1363.64	1364.62	1426.67	1408.66	1409.64	1425.66	705.32	691.32	713.83	K	368.23	350.22	351.21	342.25	324.24	325.23	325.23	307.22	308.20	326.23	308.22	309.21	184.62	171.63	163.11	163.62	3
12	70.07	1506.70	1488.68	1489.67	1478.70	1460.69	1461.67	1523.72	1505.71	1506.70	1522.71	753.85	739.85	762.36	P	240.14	222.13	223.11	214.16	196.15	197.13	197.13	179.12	180.11	198.14	180.13	181.11	120.57	107.58	99.07	99.57	2
13	71.10														V(-.98)	143.09	125.08	126.06	117.11	99.10	100.08	100.08	82.07	83.05	101.09	83.08	84.06	72.04	59.05	50.54	51.04	1



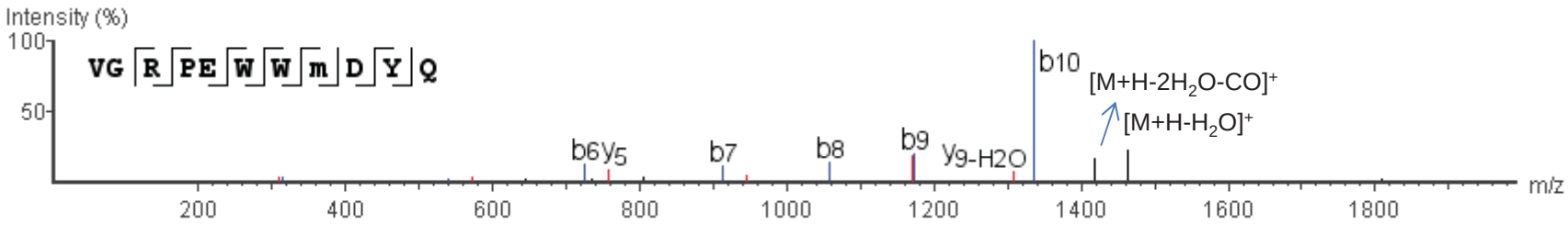
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Oxytocin-neurophysin 1	P35454|NEU1_MOUSE		C.YIQNCPLG(-.98).G	57.64	-0.9	906.4493	1



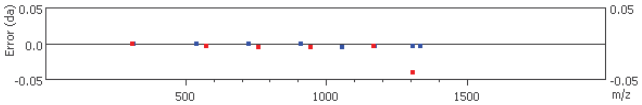
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	136.08	164.07	146.06	147.04	136.08	118.07	119.05	181.10	163.09	164.07	180.09	82.54	68.54	91.05	Y																	8
2	86.10	277.16	259.14	260.13	249.16	231.15	232.13	294.18	276.17	277.16	293.17	139.08	125.08	147.59	I	769.37	751.36	752.34	743.39	725.38	726.36	726.36	708.35	709.34	727.37	709.36	710.34	385.19	372.20	363.68	364.19	7
3	101.07	405.21	387.20	388.19	377.22	359.21	360.19	422.24	404.23	405.21	421.23	203.11	189.11	211.62	Q	656.29	638.28	639.26	630.30	612.29	613.28	613.28	595.27	596.25	614.29	596.28	597.26	328.64	315.65	307.14	307.64	6
4	87.06	519.26	501.25	502.24	491.26	473.25	474.23	536.28	518.27	519.26	535.28	260.13	246.13	268.64	N	528.23	510.22	511.20	502.24	484.24	485.22	485.22	467.21	468.19	486.23	468.22	469.20	264.61	251.62	243.11	243.61	5
5	76.02	622.27	604.26	605.24	594.27	576.26	577.24	639.29	621.28	622.27	638.29	311.63	297.64	320.15	C	414.18	396.17	397.16	388.21	370.19	371.18	371.18	353.17	354.15	372.19	354.18	355.16	207.59	194.60	186.09	186.59	4
6	70.07	719.31	701.31	702.29	691.32	673.31	674.30	736.35	718.34	719.31	735.34	360.16	346.16	368.67	P	311.18	293.16	294.15	285.20	267.15	268.17	268.17	250.16	251.14	269.18	251.17	252.15	156.09	143.10	134.58	135.09	3
7	86.10	832.40	814.39	815.37	804.41	786.40	787.38	849.43	831.42	832.40	848.42	416.70	402.70	425.21	L	214.12	196.11	197.10	188.14	170.13	171.12	171.12	153.11	154.09	172.12	154.11	155.10	107.56	94.57	86.06	86.56	2
8	29.05														G(-.98)	101.04	83.03	84.01	75.06	57.05	58.03	58.03	40.02	41.01	59.04	41.03	42.01	51.02	38.03	29.52	30.02	1



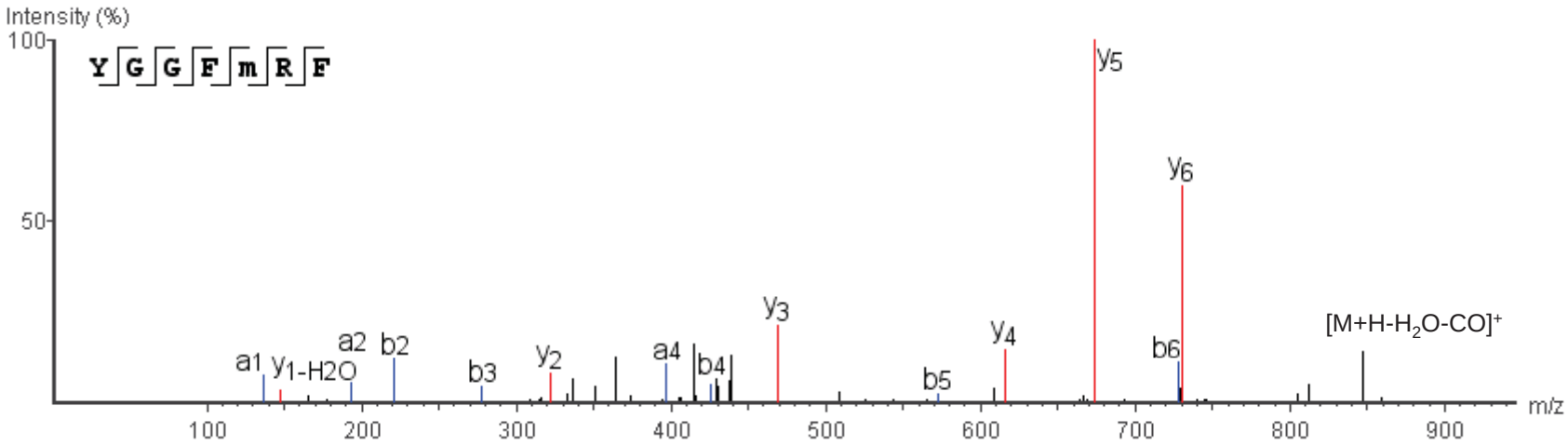
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Proenkephalin-A	P22005|PENK_MOUSE		R.VGRPEWWM(+15.99)DYQ.K	72.57	0.7	7418276	2



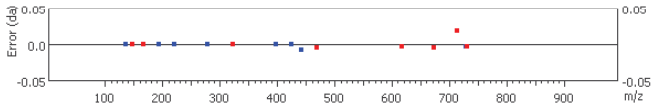
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	72.08	100.08	82.07	83.05	72.08	54.07	55.05	117.10	99.09	100.08	116.10	50.54	36.54	59.05	V																	11
2	30.03	157.10	139.09	140.07	129.10	111.09	112.08	174.12	156.11	157.10	173.12	79.05	65.05	87.56	G	1409.55	1391.54	1392.53	1383.57	1365.56	1366.55	1366.55	1348.54	1349.52	1367.55	1349.54	1350.53	705.28	692.29	683.77	684.28	10
3	129.11	313.20	295.19	296.17	285.20	267.19	268.18	330.23	312.22	313.20	329.22	157.10	143.10	165.61	R	1352.53	1334.52	1335.50	1326.55	1308.58	1309.53	1309.53	1291.51	1292.50	1310.53	1292.52	1293.51	676.77	663.78	655.26	655.77	9
4	70.07	410.25	392.24	393.22	382.26	364.25	365.23	427.28	409.27	410.25	426.27	205.63	191.63	214.14	P	1196.43	1178.42	1179.40	1170.46	1152.44	1153.42	1153.42	1135.41	1136.40	1154.43	1136.42	1137.41	598.72	585.73	577.21	577.72	8
5	102.06	539.29	521.28	522.27	511.30	493.29	494.27	556.32	538.31	539.29	555.31	270.15	256.15	278.66	E	1099.38	1081.37	1082.35	1073.40	1055.39	1056.37	1056.37	1038.36	1039.34	1057.38	1039.37	1040.35	550.19	537.20	528.69	529.19	7
6	159.09	725.37	707.36	708.35	697.38	679.37	680.35	742.40	724.39	725.37	741.39	363.19	349.19	371.70	W	970.34	952.32	953.31	944.36	926.35	927.33	927.33	909.32	910.30	928.34	910.33	911.31	485.67	472.68	464.16	464.67	6
7	159.09	911.45	893.44	894.43	883.46	865.45	866.43	928.48	910.47	911.45	927.47	456.23	442.23	464.74	W	784.26	766.25	767.23	758.28	740.27	741.25	741.25	723.24	724.22	742.26	724.25	725.23	392.63	379.64	371.12	371.63	5
8	120.04	1058.49	1040.47	1041.46	1030.49	1012.48	1013.46	1075.51	1057.50	1058.49	1074.50	529.74	515.74	538.26	M(+15.99)	598.18	580.17	581.15	572.20	554.19	555.17	555.17	537.16	538.14	556.18	538.17	539.15	299.59	286.60	278.09	278.59	4
9	88.04	1173.51	1155.50	1156.48	1145.52	1127.50	1128.49	1190.54	1172.53	1173.51	1189.53	587.26	573.26	595.77	D	451.15	433.14	434.12	425.17	407.16	408.14	408.14	390.13	391.11	409.15	391.14	392.12	226.07	213.08	204.57	205.07	3
10	136.08	1336.58	1318.56	1319.55	1308.58	1290.57	1291.55	1353.60	1335.59	1336.58	1352.59	668.79	654.79	677.30	Y	336.12	318.11	319.09	310.14	292.13	293.11	293.11	275.10	276.09	294.12	276.11	277.09	168.56	155.57	147.06	147.56	2
11	101.07														Q	173.06	155.05	156.03	147.08	129.07	130.05	130.05	112.04	113.02	131.06	113.05	114.03	87.03	74.04	65.52	66.03	1



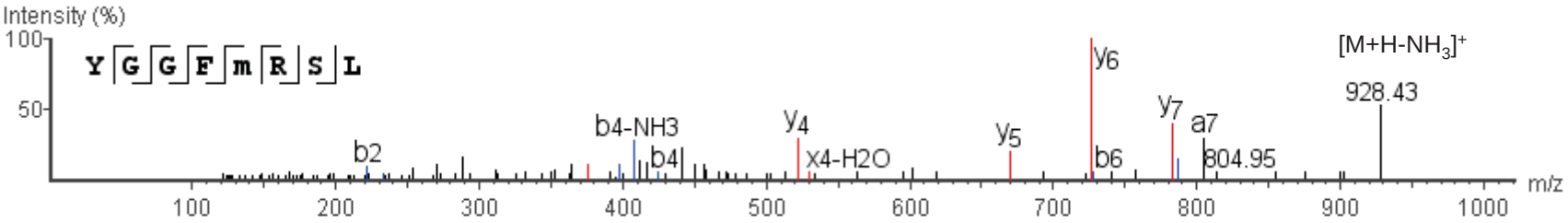
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Proenkephalin-A	P22005|PENK_MOUSE		R.YGGFM(+15.99)RF	61	3.2	447.2038	2



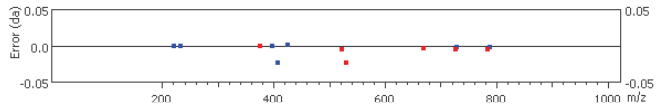
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	136.08	164.07	146.06	147.04	136.08	118.07	119.05	181.10	163.09	164.07	180.09	82.54	68.54	91.05	Y																	7
2	30.03	221.09	203.08	204.07	193.10	175.09	176.07	238.12	220.11	221.09	237.11	111.05	97.05	119.56	G	756.31	738.30	739.28	730.33	712.32	713.28	713.28	695.29	696.28	714.31	696.30	697.28	378.65	365.66	357.15	357.65	6
3	30.03	278.11	260.10	261.09	250.12	232.11	233.09	295.14	277.13	278.11	294.13	139.56	125.56	148.07	G	699.29	681.28	682.26	673.31	655.30	656.28	656.28	638.27	639.25	657.29	639.28	640.26	350.14	337.15	328.64	329.14	5
4	120.08	425.18	407.17	408.16	397.19	379.18	380.16	442.21	424.20	425.18	441.21	213.09	199.09	221.60	F	642.27	624.26	625.24	616.29	598.28	599.26	599.26	581.25	582.23	600.27	582.26	583.24	321.63	308.64	300.13	300.63	4
5	120.04	572.21	554.20	555.19	544.22	526.21	527.19	589.24	571.23	572.21	588.23	286.61	272.61	295.12	M(+15.99)	495.20	477.19	478.17	469.22	451.21	452.19	452.19	434.18	435.16	453.20	435.19	436.17	248.10	235.11	226.60	227.10	3
6	129.11	728.32	710.30	711.29	700.32	682.31	683.29	745.34	727.33	728.32	744.33	364.66	350.66	373.17	R	348.17	330.16	331.14	322.19	304.18	305.16	305.16	287.15	288.13	306.17	288.16	289.14	174.58	161.59	153.08	153.58	2
7	120.08														F	192.07	174.06	175.04	166.09	148.08	149.06	149.06	131.05	132.03	150.07	132.06	133.04	96.53	83.54	75.03	75.53	1



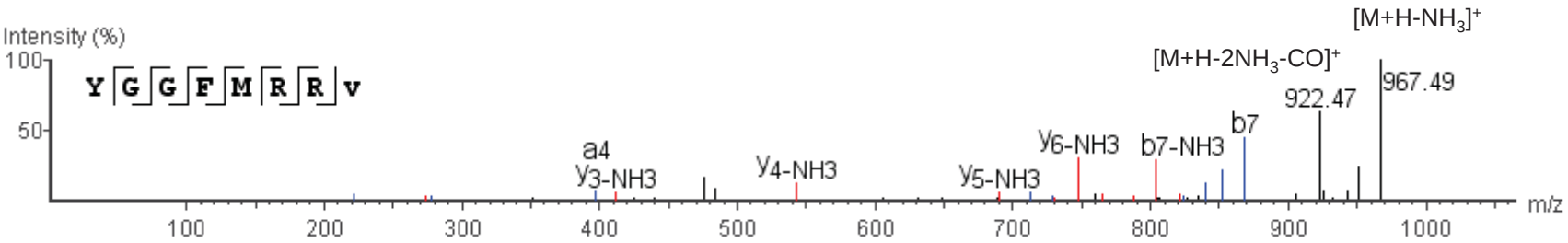
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Proenkephalin-A	P22005|PENK_MOUSE		R.YGGFM(+15.99)RSL.K	57.6	2.8	473.7275	2



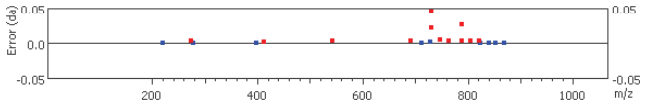
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	136.08	164.07	146.06	147.04	136.08	118.07	119.05	181.10	163.09	164.07	180.09	82.54	68.54	91.05	Y																	8
2	30.03	221.09	203.08	204.07	193.10	175.09	176.07	238.12	220.11	221.09	237.11	111.05	97.05	119.56	G	809.36	791.35	792.33	783.38	765.37	766.35	766.35	748.34	749.32	767.36	749.35	750.33	405.18	392.19	383.67	384.18	7
3	30.03	278.11	260.10	261.09	250.12	232.11	233.09	295.14	277.13	278.11	294.13	139.56	125.56	148.07	G	752.33	734.32	735.31	726.36	708.34	709.33	709.33	691.32	692.30	710.34	692.33	693.31	376.67	363.68	355.16	355.67	6
4	120.08	425.18	407.17	408.18	397.19	379.18	380.16	442.21	424.20	425.18	441.20	213.09	199.09	221.60	F	695.31	677.30	678.29	669.34	651.32	652.31	652.31	634.30	635.28	653.31	635.30	636.29	348.16	335.17	326.65	327.16	5
5	120.04	572.21	554.20	555.19	544.22	526.21	527.19	589.24	571.23	572.21	588.23	286.61	272.61	295.12	M(+15.99)	548.24	530.26	531.22	522.27	504.25	505.24	505.24	487.23	488.21	506.25	488.24	489.22	274.62	261.63	253.12	253.62	4
6	129.11	728.32	710.30	711.29	700.32	682.31	683.29	745.34	727.33	728.32	744.33	364.66	350.66	373.17	R	401.21	383.20	384.19	375.24	357.22	358.21	358.21	340.20	341.18	359.22	341.21	342.19	201.11	188.12	179.60	180.11	3
7	60.04	815.35	797.34	798.32	787.35	769.34	770.32	832.37	814.36	815.35	831.37	408.17	394.18	416.69	S	245.11	227.10	228.09	219.13	201.12	202.11	202.11	184.10	185.08	203.11	185.10	186.09	123.06	110.07	101.55	102.06	2
8	86.10														L	158.08	140.07	141.05	132.10	114.09	115.07	115.07	97.06	98.05	116.08	98.07	99.06	79.54	66.55	58.04	58.54	1



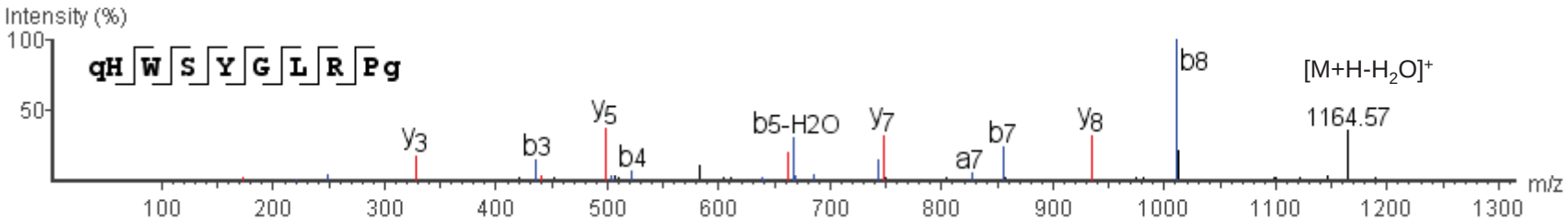
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Proenkephalin-A	P22005|PENK_MOUSE		R.YGGFMRRV(-.98).G	73.96	3.5	492.7652	2



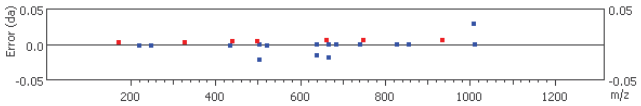
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	136.08	164.07	146.06	147.04	136.08	118.07	119.05	181.10	163.09	164.07	180.09	82.54	68.54	91.05	Y																	8
2	30.03	221.09	203.08	204.07	193.10	175.09	176.07	238.12	220.11	221.09	237.11	111.05	97.05	119.56	G	847.44	829.43	830.41	821.46	803.45	804.43	804.43	786.42	787.40	805.44	787.40	788.41	424.22	411.23	402.72	403.22	7
3	30.03	278.11	260.10	261.09	250.12	232.11	233.09	295.14	277.13	278.11	294.13	139.56	125.56	148.07	G	790.42	772.41	773.39	764.43	746.43	747.41	747.41	729.40	730.36	748.42	730.36	731.39	395.71	382.72	374.21	374.71	6
4	120.08	425.18	407.17	408.16	397.19	379.18	380.16	442.21	424.20	425.18	441.20	213.09	199.09	221.60	F	733.40	715.39	716.37	707.42	689.41	690.39	690.39	672.38	673.36	691.40	673.39	674.37	367.20	354.21	345.70	346.20	5
5	104.05	556.22	538.21	539.20	528.23	510.22	511.20	573.25	555.24	556.22	572.24	278.61	264.61	287.12	M	586.33	568.32	569.30	560.35	542.34	543.32	543.32	525.31	526.29	544.33	526.32	527.30	293.66	280.67	272.16	272.66	4
6	129.11	712.32	694.31	695.30	684.33	666.32	667.30	729.35	711.34	712.32	728.34	356.66	342.66	365.18	R	455.29	437.28	438.26	429.31	411.30	412.28	412.28	394.27	395.25	413.29	395.28	396.26	228.14	215.15	206.64	207.14	3
7	129.11	868.42	850.41	851.40	840.43	822.42	823.40	885.45	867.44	868.42	884.44	434.71	420.72	443.23	R	299.19	281.18	282.16	273.20	255.20	256.18	256.18	238.17	239.15	257.19	239.18	240.16	150.09	137.10	128.59	129.09	2
8	71.10														V(-.98)	143.09	125.08	126.06	117.11	99.10	100.08	100.08	82.07	83.05	101.09	83.08	84.06	72.04	59.05	50.54	51.04	1



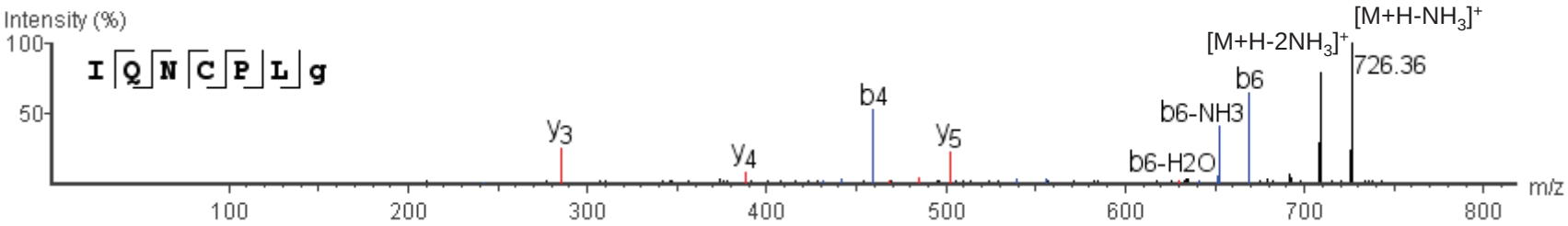
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Progonadoliberin-1	P13562|GON1_MOUSE	Gonadoliberin-1	S.Q(-17.03)HWSYGLRPG(-.98).G	103.86	2.8	5917954	2



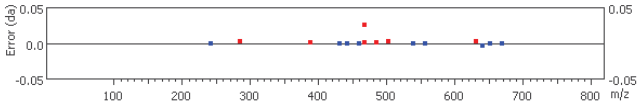
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	10
2	110.07	249.10	231.08	232.07	221.10	203.09	204.07	266.12	248.11	249.10	265.11	125.05	111.05	133.56	H	1097.53	1079.52	1080.50	1071.55	1053.54	1054.53	1054.53	1036.51	1037.50	1055.53	1037.52	1038.51	549.27	536.28	527.76	528.27	9
3	159.09	435.18	417.16	418.15	407.18	389.17	390.15	452.20	434.19	435.18	451.19	218.09	204.09	226.60	W	960.47	942.46	943.45	934.49	916.48	917.47	917.47	899.46	900.44	918.47	900.46	901.45	480.74	467.75	459.23	459.74	8
4	60.04	522.21	504.20	505.20	494.21	476.20	477.18	539.23	521.22	522.21	538.23	261.60	247.61	270.12	S	774.39	756.38	757.37	748.41	730.40	731.39	731.39	713.38	714.36	732.39	714.38	715.37	387.70	374.71	366.19	366.70	7
5	136.08	685.27	667.26	668.26	657.27	639.27	640.26	702.30	684.29	685.27	701.29	343.13	329.14	351.65	Y	687.36	669.35	670.33	661.38	643.37	644.36	644.36	626.34	627.33	645.36	627.35	628.34	344.18	331.19	322.68	323.18	6
6	30.03	742.29	724.28	725.26	714.30	696.29	697.27	759.32	741.31	742.29	758.31	371.65	357.65	380.16	G	524.30	506.29	507.27	498.31	480.31	481.29	481.29	463.28	464.26	482.30	464.29	465.27	262.65	249.66	241.15	241.65	5
7	86.10	855.38	837.36	838.35	827.38	809.37	810.35	872.40	854.39	855.38	871.39	428.19	414.19	436.70	L	467.28	449.27	450.25	441.29	423.29	424.27	424.27	406.26	407.24	425.28	407.27	408.25	234.14	221.15	212.64	213.14	4
8	129.11	1011.48	993.47	994.45	983.48	965.47	966.45	1028.50	1010.46	1011.48	1027.50	506.24	492.24	514.75	R	354.19	336.18	337.17	328.21	310.20	311.19	311.19	293.18	294.16	312.19	294.18	295.17	177.60	164.61	156.09	156.60	3
9	70.07	1108.53	1090.52	1091.50	1080.53	1062.52	1063.51	1125.56	1107.55	1108.53	1124.55	554.76	540.77	563.28	P	198.09	180.08	181.06	172.11	154.10	155.09	155.09	137.07	138.06	156.09	138.08	139.07	99.55	86.56	78.04	78.55	2
10	29.05														G(-.98)	101.04	83.03	84.01	75.06	57.05	58.03	58.03	40.02	41.01	59.04	41.03	42.01	51.02	38.03	29.52	30.02	1



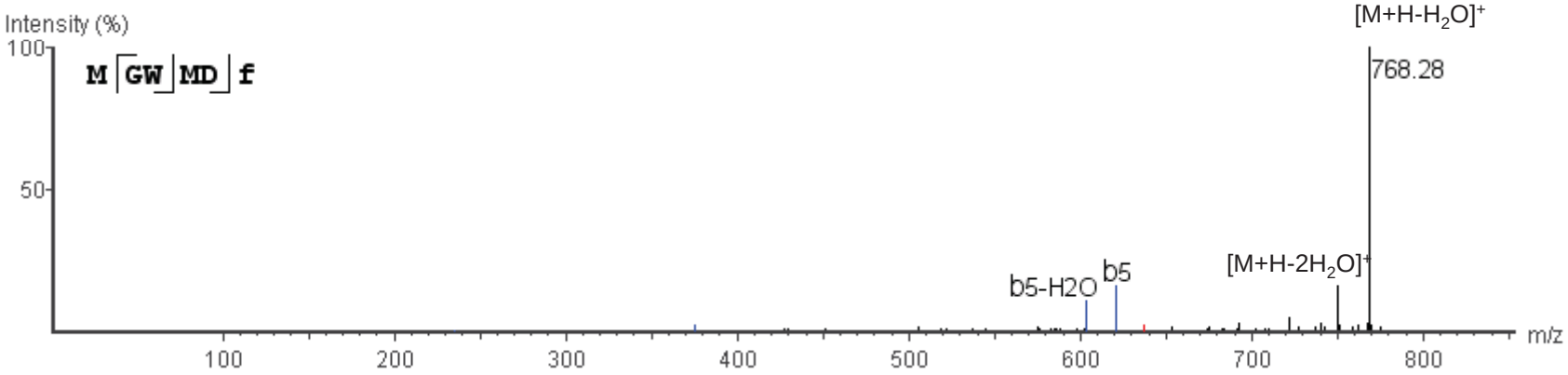
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Oxytocin-neurophysin 1	P35454|NEU1_MOUSE		Y.IQNCPLG(-.98).G	54.31	2.8	743.3889	1



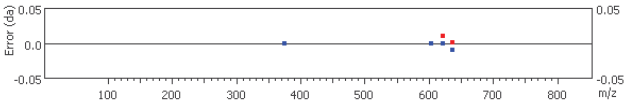
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	86.10	114.09	96.08	97.06	86.10	68.09	69.07	131.12	113.11	114.09	130.11	57.55	43.55	66.06	I																	7
2	101.07	242.15	224.14	225.12	214.16	196.14	197.13	259.18	241.17	242.15	258.17	121.58	107.58	130.09	Q	656.29	638.28	639.26	630.30	612.30	613.28	613.28	595.27	596.25	614.29	596.28	597.26	328.64	315.65	307.14	307.64	6
3	87.06	356.19	338.18	339.17	328.20	310.19	311.17	373.22	355.21	356.19	372.21	178.60	164.60	187.11	N	528.23	510.22	511.20	502.24	484.24	485.22	485.22	467.21	468.19	486.23	468.19	469.20	264.61	251.62	243.11	243.61	5
4	76.02	459.20	441.19	442.18	431.21	413.20	414.18	476.23	458.22	459.20	475.22	230.10	216.10	238.61	C	414.18	396.17	397.16	388.20	370.19	371.18	371.18	353.17	354.15	372.19	354.18	355.16	207.59	194.60	186.09	186.59	4
5	70.07	556.25	538.24	539.23	528.26	510.25	511.23	573.28	555.27	556.25	572.27	278.63	264.63	287.14	P	311.18	293.16	294.15	285.19	267.19	268.17	268.17	250.16	251.14	269.18	251.17	252.15	156.09	143.10	134.58	135.09	3
6	86.10	669.34	651.33	652.31	641.35	623.33	624.32	686.37	668.36	669.34	685.36	335.17	321.17	343.68	L	214.12	196.11	197.10	188.14	170.13	171.12	171.12	153.11	154.09	172.12	154.11	155.10	107.56	94.57	86.06	86.56	2
7	29.05														G(-.98)	101.04	83.03	84.01	75.06	57.05	58.03	58.03	40.02	41.01	59.04	41.03	42.01	51.02	38.03	29.52	30.02	1



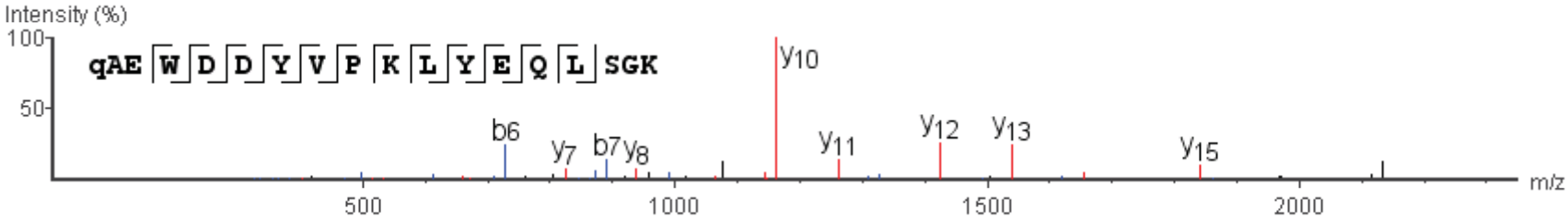
Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Cholecystokinin	P09240|CCKN_MOUSE		Y.MGWMDF(-.98).G	54.05	2.1	785.3126	1



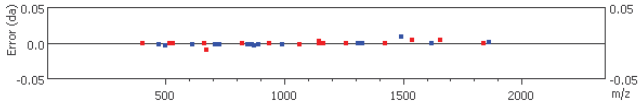
#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	104.05	132.05	114.04	115.02	104.05	86.04	87.03	149.08	131.06	132.05	148.07	66.52	52.53	75.04	M																	6
2	30.03	189.07	171.06	172.04	161.07	143.06	144.05	206.10	188.09	189.07	205.09	95.03	81.04	103.55	G	680.25	662.24	663.23	654.27	636.26	637.25	637.25	619.24	620.22	638.26	620.24	621.22	340.63	327.64	319.12	319.63	5
3	159.09	375.15	357.14	358.12	347.15	329.14	330.13	392.18	374.17	375.15	391.17	188.07	174.08	196.59	W	623.23	605.22	606.21	597.25	579.24	580.23	580.23	562.22	563.20	581.23	563.22	564.21	312.12	299.13	290.61	291.12	4
4	104.05	506.19	488.18	489.16	478.19	460.18	461.17	523.22	505.21	506.19	522.21	253.59	239.60	262.11	M	437.15	419.14	420.13	411.17	393.16	394.15	394.15	376.14	377.12	395.15	377.14	378.13	219.08	206.09	197.57	198.08	3
5	88.04	621.22	603.21	604.19	593.22	575.21	576.19	638.24	620.23	621.22	637.25	311.11	297.11	319.62	D	306.11	288.10	289.09	280.13	262.12	263.11	263.11	245.10	246.08	264.11	246.10	247.09	153.56	140.57	132.05	132.56	2
6	119.10														F(-.98)	191.09	173.08	174.06	165.11	147.10	148.08	148.08	130.07	131.05	149.09	131.08	132.06	96.04	83.05	74.54	75.04	1



Precursor	Uniprot Entry	Peptide Name	Sequence	-10lgP	Mass Error (ppm)	m/z	charge
Phosphatidylethanolamine-bindin	P70296|PEBP1_MOUSE		Y.Q(-17.03)AEWDDYVPKLYEQLSGK	129.36	0	1076.515	2



#	Immonium	b	b-H2O	b-NH3	a	a-H2O	a-NH3	c	c-H2O	c-NH3	c-H	b (2+)	a (2+)	c (2+)	Seq	x	x-H2O	x-NH3	y	y-H2O	y-NH3	z	z-H2O	z-NH3	z'	z'-H2O	z'-NH3	x (2+)	y (2+)	z (2+)	z' (2+)	#
1	84.04	112.04	94.03	95.01	84.04	66.03	67.01	129.06	111.05	112.04	128.06	56.52	42.52	65.03	Q(-17.03)																	18
2	44.05	183.07	165.06	166.05	155.08	137.07	138.05	200.10	182.09	183.07	199.09	92.04	78.04	100.55	A	2066.97	2048.96	2049.94	2040.99	2022.98	2023.96	2023.96	2005.95	2006.94	2024.97	2006.96	2007.95	1033.99	1021.00	1012.48	1012.99	17
3	102.06	312.12	294.11	295.09	284.12	266.11	267.09	329.14	311.13	312.12	328.14	156.56	142.56	165.07	E	1995.93	1977.92	1978.91	1969.95	1951.94	1952.93	1952.93	1934.92	1935.90	1953.93	1935.92	1936.91	998.47	985.48	976.96	977.47	16
4	159.09	498.20	480.18	481.17	470.20	452.19	453.17	515.22	497.21	498.20	514.21	249.60	235.60	258.11	W	1866.89	1848.88	1849.86	1840.91	1822.90	1823.88	1823.88	1805.87	1806.86	1824.89	1806.88	1807.87	933.95	920.96	912.44	912.95	15
5	88.04	613.23	595.21	596.20	585.23	567.22	568.20	630.25	612.24	613.23	629.24	307.11	293.11	315.62	D	1680.81	1662.80	1663.78	1654.83	1636.82	1637.81	1637.81	1619.79	1620.78	1638.81	1620.80	1621.79	840.91	827.92	819.40	819.91	14
6	88.04	728.25	710.24	711.22	700.25	682.24	683.23	745.28	727.27	728.25	744.27	364.62	350.63	373.14	D	1565.78	1547.77	1548.76	1539.80	1521.79	1522.78	1522.78	1504.77	1505.75	1523.79	1505.78	1506.76	783.39	770.40	761.89	762.39	13
7	136.08	891.32	873.31	874.29	863.32	845.31	846.29	908.34	890.33	891.32	907.33	446.16	432.16	454.67	Y	1450.76	1432.75	1433.73	1424.78	1406.77	1407.75	1407.75	1389.74	1390.72	1408.76	1390.75	1391.73	725.88	712.89	704.38	704.88	12
8	72.08	990.38	972.37	973.35	962.39	944.38	945.36	1007.41	989.40	990.38	1006.40	495.69	481.69	504.20	V	1287.69	1269.68	1270.67	1261.72	1243.70	1244.69	1244.69	1226.68	1227.66	1245.70	1227.69	1228.67	644.35	631.36	622.84	623.35	11
9	70.07	1087.43	1069.42	1070.41	1059.44	1041.43	1042.41	1104.46	1086.45	1087.43	1103.45	544.22	530.22	552.73	P	1188.63	1170.62	1171.60	1162.65	1144.64	1145.62	1145.62	1127.61	1128.59	1146.62	1128.62	1129.60	594.81	581.82	573.31	573.81	10
10	101.11	1215.53	1197.52	1198.50	1187.53	1169.52	1170.51	1232.56	1214.55	1215.53	1231.55	608.26	594.27	616.78	K	1091.57	1073.56	1074.55	1065.60	1047.58	1048.57	1048.57	1030.56	1031.54	1049.57	1031.56	1032.55	546.29	533.30	524.78	525.29	9
11	86.10	1328.61	1310.60	1311.59	1300.62	1282.61	1283.59	1345.64	1327.63	1328.61	1344.63	664.81	650.81	673.32	L	963.48	945.47	946.45	937.50	919.49	920.47	920.47	902.46	903.44	921.48	903.47	904.45	482.24	469.25	460.74	461.24	8
12	136.08	1491.67	1473.67	1474.65	1463.68	1445.67	1446.65	1508.70	1490.69	1491.67	1507.70	746.34	732.34	754.85	Y	850.39	832.38	833.37	824.42	806.40	807.39	807.39	789.38	790.36	808.40	790.39	791.37	425.70	412.71	404.19	404.70	7
13	102.06	1620.72	1602.71	1603.69	1592.72	1574.71	1575.70	1637.75	1619.74	1620.72	1636.74	810.86	796.86	819.37	E	687.33	669.32	670.31	661.35	643.34	644.32	644.32	626.31	627.30	645.33	627.32	628.31	344.17	331.18	322.66	323.17	6
14	101.07	1748.78	1730.77	1731.75	1720.78	1702.77	1703.76	1765.80	1747.79	1748.78	1764.80	874.89	860.89	883.40	Q	558.29	540.28	541.26	532.31	514.30	515.28	515.28	497.27	498.25	516.29	498.28	499.26	279.64	266.65	258.14	258.64	5
15	86.10	1861.86	1843.85	1844.83	1833.87	1815.86	1816.84	1878.89	1860.88	1861.86	1877.88	931.43	917.43	939.94	L	430.23	412.22	413.20	404.25	386.24	387.22	387.22	369.21	370.20	388.23	370.22	371.20	215.61	202.63	194.11	194.62	4
16	60.04	1948.89	1930.88	1931.87	1920.90	1902.89	1903.87	1965.92	1947.91	1948.89	1964.91	974.95	960.95	983.46	S	317.15	299.14	300.12	291.17	273.16	274.14	274.14	256.13	257.11	275.15	257.14	258.12	159.07	146.08	137.57	138.07	3
17	30.03	2005.91	1987.90	1988.89	1977.92	1959.91	1960.89	2022.94	2004.93	2005.91	2021.93	1003.46	989.46	1011.97	G	230.11	212.10	213.09	204.13	186.12	187.11	187.11	169.10	170.08	188.12	170.10	171.09	115.56	102.57	94.05	94.56	2
18	101.11														K	173.09	155.08	156.07	147.11	129.10	130.09	130.09	112.08	113.06	131.09	113.08	114.07	87.05	74.06	65.54	66.05	1



Supplementary Table S1 Peptides Identified from Mouse Brain (including entire brain and hypothalamus)

Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
Angiotensinogen	P11859|ANGT_MOUSE	Angiotensin-3	D.RVYIHPF.H	42.06	3.4	466.2626	2
Angiotensinogen	P11859|ANGT_MOUSE	Angiotensin-2	G.DRVYIHPF.H	59.3	0.7	523.7748	2
Angiotensinogen	P11859|ANGT_MOUSE		P.ESTFEPVPIQAKTSPVNEKTLHDQLVLAAEKLED.E*	57.5	-6.1	756.1931	5
CART	P56388|CART_MOUSE		R.IPIYE.K	36.33	0.7	634.345	1
CART	P56388|CART_MOUSE		R.Q(-17.03)LRAPGAMLQIEALQEVLKKLKS.K*	97.71	-0.4	637.6224	4
CART	P56388|CART_MOUSE		R.APGAMLQIEALQEVLKKL.K	94.39	-0.7	651.3793	3
CART	P56388|CART_MOUSE		A.Q(-17.03)EDAELQPR.A	92.6	1.1	1068.4968	1
CART	P56388|CART_MOUSE		R.APGAMLQIEALQEVLKKLKS.K	92.11	0.9	542.5689	4
CART	P56388|CART_MOUSE		R.Q(-17.03)LRAPGAMLQIEALQEVLKKL.K*	82.73	1.3	778.1198	3
CART	P56388|CART_MOUSE		R.ALDIYSAVDDASHEKELPR.R	69.85	2.6	533.0196	4
CART	P56388|CART_MOUSE		P.GAMLQIEALQEVLKKLKS.K*	63.52	2	667.0602	3
CART	P56388|CART_MOUSE		R.ALDIYSAVDDASHEKELP.R*	52.63	2	658.3228	3
Cerebellin-1	Q9R171|CBLN1_MOUSE	Cerebellin-1	R.SGSAKVAFSAIRSTNH.E	120.93	1.2	816.9272	2
Cerebellin-1	Q9R171|CBLN1_MOUSE	[Des-Ser1]-cerebellin	S.GSAKVAFSAIRSTNH.E	109.81	1.7	773.4115	2
Cerebellin-1	Q9R171|CBLN1_MOUSE		R.SGSAKVAFSAIRSTN.H	116.83	3.6	748.3995	2
Cerebellin-1	Q9R171|CBLN1_MOUSE		S.GSAKVAFSAIRSTN.H	95.92	-0.7	704.8802	2
Cerebellin-1	Q9R171|CBLN1_MOUSE		M.GGWKYSTFSGFLVFPL	92.1	0.5	903.4672	2
Cerebellin-1	Q9R171|CBLN1_MOUSE		R.SGSAKVAFSAIRSTNHE.P*	77.19	2.5	587.9689	3
Cholecystokinin	P09240|CCKN_MOUSE		R.YIQQV.R	35.08	2	650.3521	1
Cholecystokinin	P09240|CCKN_MOUSE		K.APSGRMSVLKNLQSLDPSHRISD.R	120.64	2.2	627.8315	4
Cholecystokinin	P09240|CCKN_MOUSE		R.YIQQVRKAPSGRMSVLKNLQSLDPSHRISD.R	111.51	1.4	685.5723	5
Cholecystokinin	P09240|CCKN_MOUSE		K.APSGRMSVLKNLQSLDPSHRIS.D	103.81	1.1	599.074	4
Cholecystokinin	P09240|CCKN_MOUSE		R.YIQQVRKAPSGRMSVLKNLQSLDPSHRIS.D*	101.89	1.6	662.567	5
Cholecystokinin	P09240|CCKN_MOUSE		R.KAPSGRMSVLKNLQSLDPSHRISD.R	97.14	1.5	879.4708	3
Cholecystokinin	P09240|CCKN_MOUSE		R.KAPSGRMSVLKNLQSLDPSHRIS.D	78.26	0.5	631.0974	4
Cholecystokinin	P09240|CCKN_MOUSE		A.Q(-17.03)PVVPAEATDPVEQRAEEAPRRQL(-.98).R*	75.8	-0.5	890.131	3
Cholecystokinin	P09240|CCKN_MOUSE		A.QPVVPAEATDPVEQRAEEAPRRQL(-.98).R*	60.43	2.1	672.1085	4
Cholecystokinin	P09240|CCKN_MOUSE		Y.MGWMDF(-.98).G	54.05	2.1	785.3126	1
Cholecystokinin	P09240|CCKN_MOUSE		K.APSGRMSVLKNL.Q*	48.09	2.9	424.9091	3
Cholecystokinin	P09240|CCKN_MOUSE		K.APSGRMSVLKNL.Q	48.09	2.9	400.7555	2
Chromogranin-A	P26339|CMGA_MOUSE	WE-14	R.WSRMDQLAKELTAE.K	90.04	2.3	839.4188	2
Chromogranin-A	P26339|CMGA_MOUSE		R.AEDQELESLSAIEAELEKVAHQLQALRR(-.98).G*	115.39	-0.8	635.9394	5
Chromogranin-A	P26339|CMGA_MOUSE		R.LEGEDDPDRSMKLSFRT.R	99.68	4.4	665.9891	3
Chromogranin-A	P26339|CMGA_MOUSE		R.AYGFRDPGPQL.R	93.37	2.1	610.8078	2
Chromogranin-A	P26339|CMGA_MOUSE		A.YGFRDPGPQL.R	90.81	0.3	575.2881	2
Chromogranin-A	P26339|CMGA_MOUSE		R.WSRMDQLAKELT.A	84.11	-0.7	739.3765	2
Chromogranin-A	P26339|CMGA_MOUSE		R.LEGEDDPDRSMKLSFRTRAYGFRDPGPQL.R*	83.84	1.2	839.1647	4
Chromogranin-A	P26339|CMGA_MOUSE		R.LEGEDDPDRSMKLSF.R*	82.74	1.8	869.9028	2
Chromogranin-A	P26339|CMGA_MOUSE		R.MDQLAKELTAE.K	77.17	1.2	624.8113	2
Chromogranin-A	P26339|CMGA_MOUSE		Y.GFRDPGPQL.R	60.58	-0.7	493.756	2
Corticoliberin	Q8CIT0|CRF_MOUSE		R.GAEDALGGHQGALERE.R	80.44	1	537.2575	3
Corticoliberin	Q8CIT0|CRF_MOUSE		R.GAEDALGGHQGALE.R	79.87	-0.1	662.8099	2
Corticoliberin	Q8CIT0|CRF_MOUSE		A.LLSRGSVPRAPR.A	61.06	0.3	436.9336	3

Supplementary Table S1 Peptides Identified from Mouse Brain (including entire brain and hypothalamus) (Continued)

Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
FMRFamide-related peptides	Q9ESQ8|RFRP_MOUSE		R.SPAARVNMEAGTRSHFPSLPQRF(-.98).G*	73.45	-1	639.5809	4
FMRFamide-related peptides	Q9WVA8|NPFF_MOUSE		R.SPAFLFQPQRF(-.98).G	76.02	-0.2	668.8615	2
Galanin peptides	P47212|GALA_MOUSE	Galanin	R.GWTLNSAGYLLGPHAIDNHRSFSDKHGLT(-.98).G	32	-0.4	633.522	5
Gastrin-releasing peptide	Q8R1I2|GRP_MOUSE	Neuromedin-C	R.GSHWAVGHLM(-.98).G	78.65	1.3	547.2723	2
Gastrin-releasing peptide	Q8R1I2|GRP_MOUSE	Gastrin-releasing peptide	A.APVSTGAGGGTVLAKMYPRGSHWAVGHLM(-.98).G	66.58	6.5	727.6319	4
Gastrin-releasing peptide	Q8R1I2|GRP_MOUSE		A.APVSTGAGGGTVLAKMYPR.G*	78.77	1.9	611.6622	3
Gastrin-releasing peptide	Q8R1I2|GRP_MOUSE		A.APVSTGAGGGTVLAKMYP.R	66.37	2.5	838.9395	2
Glucagon	P55095|GLUC_MOUSE	Oxyntomodulin	R.HSQGTFTSDYSKYLDSRRAQDFVQWLMNTKRNRNNIA.K	25.87	2.9	890.4423	5
Glucagon	P55095|GLUC_MOUSE	Glucagon-like peptide 1(7-36)	R.HAEGTFTSDVSSYLEGQAAKEFIAWLVKGR(-.98).G	100.81	1.5	824.9241	4
Neuroendocrine convertase 2	P21661|NEC2_MOUSE		K.Q(-17.03)ELEEELDEAVERSLQSILRKN	123.96	-1.8	871.1102	3
Neuroendocrine convertase 2	P21661|NEC2_MOUSE		A.ERPVFTNHFLVELHKD.G*	108.32	3.6	496.0145	4
Neuroendocrine convertase 2	P21661|NEC2_MOUSE		R.IKMALQQEGFD.R	108.14	2.5	640.3228	2
Neuroendocrine convertase 2	P21661|NEC2_MOUSE		K.QELEEELDEAVERSLQSILRKN	69	0.5	657.8426	4
Neuroendocrine convertase 2	P21661|NEC2_MOUSE		R.SLQSILRKN	64.51	0.5	529.8197	2
Neuroendocrine convertase 2	P21661|NEC2_MOUSE		M.ALQQEGFD.R	62.48	3.4	907.4186	1
Neuroendocrine convertase 2	P21661|NEC2_MOUSE		R.Q(-17.03)LERDPRIKMALQQEGFD.R*	57.06	-2	719.6953	3
Neuroendocrine convertase 2	P21661|NEC2_MOUSE		R.IKMALQQEGF.D	54.39	2.5	582.8091	2
Neuroendocrine convertase 2	P21661|NEC2_MOUSE		R.Q(-17.03)LERDP.R*	51.29	1.9	370.683	2
Neuroendocrine protein 7B2	P12961|7B2_MOUSE		A.YSPRTPDRVSETDIQRLLHGVMEQLGIARPR.V*	133.56	1.8	718.9865	5
Neuroendocrine protein 7B2	P12961|7B2_MOUSE		R.SVNPYLQGKRLDNVVAKKSVPHFSEEEKEAE*	94.31	1	882.7095	4
Neuroendocrine protein 7B2	P12961|7B2_MOUSE		A.YSPRTPDRVSETDIQRLLHGVMEQLGIARP.R	82.28	-0.7	687.7645	5
Neuroendocrine protein 7B2	P12961|7B2_MOUSE		A.YSPRTPDRVSETDIQRLLHGVME.Q	78.81	0.2	675.5948	4
Neuroendocrine protein 7B2	P12961|7B2_MOUSE		A.YSPRTPDRVSETDIQRLLHGVMEQL.G	75	3.6	735.8829	4
Neuroendocrine protein 7B2	P12961|7B2_MOUSE		L.GIARPRVEYPAHQA.M*	74.84	3.1	391.9652	4
Neuroendocrine protein 7B2	P12961|7B2_MOUSE		K.LLYEKMKGGQ.R*	71.21	0.7	583.8159	2
Neuroendocrine protein 7B2	P12961|7B2_MOUSE		L.GIARPRVEYPAHQAM.N*	69.33	3.3	565.965	3
Neuroendocrine protein 7B2	P12961|7B2_MOUSE		R.SVNPYLQGKRLDNVVA.K	63.61	0.5	886.9867	2
Neuroendocrine protein 7B2	P12961|7B2_MOUSE		A.YSPRTPDRVSETDIQRLLHGVMEQLGIARPRVEYPAHQA.M*	60.78	1.5	748.5599	6
Neuroendocrine protein 7B2	P12961|7B2_MOUSE		R.SVNPYLQ(-.98).G*	49.82	2.8	819.4382	1
Neuromedin-B	Q9CR53|NMB_MOUSE		P.FNWDLPEPRSRASKIRVHP.R*	70.38	1.9	577.0643	4
Neuropeptide S	P0C0P8|NPS_MOUSE		R.SFRNGVGSGAKKTSF.R	97.1	3	514.9405	3
Neuropeptide S	P0C0P8|NPS_MOUSE		R.SFRNGVGSGA.K	52.94	1.5	476.2365	2
Neurotensin/neuromedin N	Q9D3P9|NEUT_MOUSE	Neurotensin	R.Q(-17.03)LYENKPRRPYIL.K	65.69	1.2	558.3112	3
Neurotensin/neuromedin N	Q9D3P9|NEUT_MOUSE	Neuromedin N	R.KIPYIL.K	27.53	1.5	373.7447	2
Neurotensin/neuromedin N	Q9D3P9|NEUT_MOUSE		R.Q(-17.03)LYENKPR.R	65.64	0.5	515.7697	2
Neurotensin/neuromedin N	Q9D3P9|NEUT_MOUSE		K.IPYIL.K	18.02	1.5	618.387	1
Orexin	O55241|OREX_MOUSE	Orexin-B	R.RPGPPGLQGRLQRLLQANGNHAAGILTM(-.98).G	89.72	2.5	734.6641	4
Orexin	O55241|OREX_MOUSE		R.RPGPPGLQGRLQRLLQANGNHAAGILTM.G	70.73	3	734.9104	4
Orexin	O55241|OREX_MOUSE		R.LLQANGNHAAGILTM(-.98).G	50.58	4.6	761.9151	2
Oxytocin-neurophysin 1	P35454|NEU1_MOUSE		C.YIQNCPLG(-.98).G	57.64	-0.9	906.4493	1
Oxytocin-neurophysin 1	P35454|NEU1_MOUSE		Y.IQNCPLG(-.98).G	54.31	2.8	743.3889	1
PACAP	O70176|PACA_MOUSE		R.DVAHEILNEAYRKVLDQLSARKYLQSVVA.R*	72.24	-2.7	832.9535	4
PACAP	O70176|PACA_MOUSE		R.HSDGIFTDSYSRY.R	69.71	-0.1	774.3416	2
PEBP-1	P70296|PEBP1_MOUSE		A.GVTVDELGKVLTPTQV.M	50.98	-0.1	424.9091	3
PEBP-1	P70296|PEBP1_MOUSE		E.WDDYVPKLYEQLSGK	46.97	3.1	480.7258	2
PEBP-1	P70296|PEBP1_MOUSE		Y.AGVTVDEL.G	45.09	1.5	682.3051	1
PEBP-1	P70296|PEBP1_MOUSE		Y.Q(-17.03)AEWDDYVPKLYEQLSGK*	129.36	0	1076.5153	2

Supplementary Table S1 Peptides Identified from Mouse Brain (including entire brain and hypothalamus) (Continued)

Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
PEBP-1	P70296|PEBP1_MOUSE		M.KGNDISSGTVLSDYVGSGPPSGTGLHRY.V*	122	1.5	941.1312	3
PEBP-1	P70296|PEBP1_MOUSE		A.EWDDYVPKLYEQLSGK	117.61	-1.3	985.4794	2
PEBP-1	P70296|PEBP1_MOUSE		W.DDYVPKLYEQLSGK	113.27	2.8	552.2838	3
PEBP-1	P70296|PEBP1_MOUSE		Y.QAEWDDYVPKLYEQLSGK	111.74	2.4	723.6899	3
PEBP-1	P70296|PEBP1_MOUSE		Q.AEWDDYVPKLYEQLSGK*	108.52	0.6	681.0024	3
PEBP-1	P70296|PEBP1_MOUSE		L.GKVLTPTQVMNRPSSISWDGLDPGKLYTL.V*	106.29	-1.3	1058.559	3
PEBP-1	P70296|PEBP1_MOUSE		L.SDYVGSGPPSGTGLHRYVWLVY.E*	104.98	0.8	804.0663	3
PEBP-1	P70296|PEBP1_MOUSE		Y.AGVTVDELGKVLTPTQVMN.R*	103.58	0.7	986.5253	2
PEBP-1	P70296|PEBP1_MOUSE		N.RPSSISWDGLDPGKLYTL.V	99.17	0.4	1003.0234	2
PEBP-1	P70296|PEBP1_MOUSE		Y.QAEWDDYVPKLYEQL.S	97.53	-0.6	948.9537	2
PEBP-1	P70296|PEBP1_MOUSE		L.VLTDPDAPSRKDPKFREWHHFLVVNM.K*	97.5	-1.6	784.404	4
PEBP-1	P70296|PEBP1_MOUSE		V.NMKGNDISSGTVL.S*	94.42	1.4	668.3332	2
PEBP-1	P70296|PEBP1_MOUSE		A.EWDDYVPKLYEQL.S	90.97	2.3	849.4084	2
PEBP-1	P70296|PEBP1_MOUSE		V.MNRPSSISWDGLDPGKLYTL.V	89.74	2.8	1125.568	2
PEBP-1	P70296|PEBP1_MOUSE		W.AGPLCLQEVDEPPQHAL.R	89.55	2.4	908.9507	2
PEBP-1	P70296|PEBP1_MOUSE		L.RVDYAGVTVDELGKVLTPTQVMNRPSSISWDGLDPGKLYTL.V*	89.05	-4.2	1123.5814	4
PEBP-1	P70296|PEBP1_MOUSE		L.VLTDPDAPSRKDPKFREW.H*	88.74	2	540.0337	4
PEBP-1	P70296|PEBP1_MOUSE		V.DYAGVTVDELGKVLTPTQV.M*	87.92	-0.4	1003.0276	2
PEBP-1	P70296|PEBP1_MOUSE		L.VLTDPDAPSRKDPKFREWHH.F*	87.02	-0.2	608.562	4
PEBP-1	P70296|PEBP1_MOUSE		L.RVDYAGVTVDELGKVLTPTQVMNR.P*	86.93	2.4	666.1077	4
PEBP-1	P70296|PEBP1_MOUSE		L.QEVDEPPQHAL.R	86.45	2.3	631.8057	2
PEBP-1	P70296|PEBP1_MOUSE		L.VLTDPDAPSRKDPKFREWHHFL.V*	86.2	3.5	673.6025	4
PEBP-1	P70296|PEBP1_MOUSE		L.RVDYAGVTVDELGKVLTPTQV.M	86.01	-1.3	1130.6113	2
PEBP-1	P70296|PEBP1_MOUSE		L.VLTDPDAPSRKDPKFREWHHFLVV.N*	85.68	1.4	723.1354	4
PEBP-1	P70296|PEBP1_MOUSE		W.HHFLVVNM.K*	84.72	1.2	498.7584	2
PEBP-1	P70296|PEBP1_MOUSE		L.TDPDAPSRKDPKFREWHHFLVVNM.K*	83.73	-1.3	731.3662	4
PEBP-1	P70296|PEBP1_MOUSE		M.KGNDISSGTVLSDYVGSGPPSGTGLHRYVWL.V*	83.73	6	1073.8804	3
PEBP-1	P70296|PEBP1_MOUSE		R.PSSISWDGLDPGKLYTL.V	82.47	0.3	924.9727	2
PEBP-1	P70296|PEBP1_MOUSE		M.KGNDISSGTVLSDYVGSGPPSGTGLHRYVW.L*	82.19	0.5	777.3866	4
PEBP-1	P70296|PEBP1_MOUSE		E.VDEPPQHAL.R	80.94	3.5	503.2553	2
PEBP-1	P70296|PEBP1_MOUSE		W.DDYVPKLYEQL.S	78.97	2.6	691.8473	2
PEBP-1	P70296|PEBP1_MOUSE		V.MNRPSSISWDGL.D	78.88	1.2	681.8279	2
PEBP-1	P70296|PEBP1_MOUSE		L.VLTDPDAPSRKDPKFREWHHFLVVN.M*	78.32	2.4	751.6469	4
PEBP-1	P70296|PEBP1_MOUSE		M.KGNDISSGTVLSDYVGSGPPSGTGLHRYVWLVY.E*	77.92	-1.5	871.1887	4
PEBP-1	P70296|PEBP1_MOUSE		D.PDAPSRKDPKFREWHHFLVV.N*	77.34	1.6	616.0786	4
PEBP-1	P70296|PEBP1_MOUSE		L.RVDYAGVTVDEL.G	76.87	-3.2	668.8386	2
PEBP-1	P70296|PEBP1_MOUSE		M.KGNDISSGTVL.S	75.86	1.5	545.7913	2
PEBP-1	P70296|PEBP1_MOUSE		I.SWDGLDPGKLYTL.V	74.83	4.8	732.8756	2
PEBP-1	P70296|PEBP1_MOUSE		L.VVNMKGNDISSGTVL.S*	73.74	1	767.4015	2
PEBP-1	P70296|PEBP1_MOUSE		Y.AGVTVDELGKVLTPTQVMNR.P*	73.02	2.6	710.0543	3
PEBP-1	P70296|PEBP1_MOUSE		L.VLTDPDAPSRKDPKFREWHHF.L*	72.77	-1.1	516.4642	5
PEBP-1	P70296|PEBP1_MOUSE		L.VLTDPDAPSRKDPKFREWHHFLV.V*	72.69	1	698.368	4
PEBP-1	P70296|PEBP1_MOUSE		W.AGPLCLQEVDEPPQHALRVDY.A*	71.68	1.2	784.0557	3
PEBP-1	P70296|PEBP1_MOUSE		W.DGLDPGKLYTL.V	71.4	2	596.3176	2
PEBP-1	P70296|PEBP1_MOUSE		V.MNRPSSISW.D*	71.21	1.7	539.2618	2
PEBP-1	P70296|PEBP1_MOUSE		L.GKVLTPTQVMN.R*	70.65	0.6	594.3266	2
PEBP-1	P70296|PEBP1_MOUSE		L.TDPDAPSRKDPKFREWHHFLVV.N*	70.32	2.5	670.0979	4

Supplementary Table S1 Peptides Identified from Mouse Brain (including entire brain and hypothalamus) (Continued)

Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
PEBP-1	P70296|PEBP1_MOUSE		N.MKGNDISSGTVL.S*	69.92	2.2	611.3121	2
PEBP-1	P70296|PEBP1_MOUSE		M.KGNDISSGTVLSDYVGSGPPSGTGLHR.Y*	69.76	2	665.3347	4
PEBP-1	P70296|PEBP1_MOUSE		M.A(+42.01)ADISQWAGPLCL.Q*	68.32	-0.3	693.8395	2
PEBP-1	P70296|PEBP1_MOUSE		L.DPGKLYTL.V	68.17	2.2	453.7511	2
PEBP-1	P70296|PEBP1_MOUSE		R.PSSISWDGLDPGKLYTLVL.T*	67.94	-1.1	1031.0477	2
PEBP-1	P70296|PEBP1_MOUSE		M.KGNDISSGTVLSDYVGSGPPSGTGLHRYVWLV.Y*	67.54	0.7	830.4248	4
PEBP-1	P70296|PEBP1_MOUSE		Y.AGVTVDELGKVLTPTQV.M	65.17	3.7	576.3265	3
PEBP-1	P70296|PEBP1_MOUSE		M.A(+42.01)ADISQWAGPLCLQEVDEPPQHALRVDY.A*	63.09	0.5	1055.1771	3
PEBP-1	P70296|PEBP1_MOUSE		D.PDAPSRKDPKFREWHHFLVVNM.K*	62.39	1.9	542.0812	5
PEBP-1	P70296|PEBP1_MOUSE		N.RPSSISWDGL.D	61.88	1.3	559.2862	2
PEBP-1	P70296|PEBP1_MOUSE		M.NRPSSISWDGLDPGKLYTL.V	61.56	1	707.0328	3
PEBP-1	P70296|PEBP1_MOUSE		E.VDEPPQHALRV.D*	60.67	2.9	420.8959	3
PEBP-1	P70296|PEBP1_MOUSE		H.FLVVNM.K	60.2	-0.7	722.3901	1
PEBP-1	P70296|PEBP1_MOUSE		V.DELGKVLTPTQV.M	59.82	1.2	650.3621	2
PEBP-1	P70296|PEBP1_MOUSE		E.VDEPPQHALRVDY.A	58.86	3	513.593	3
PEBP-1	P70296|PEBP1_MOUSE		L.GKVLTPTQV.M	57.62	4.7	471.7868	2
PEBP-1	P70296|PEBP1_MOUSE		L.DPGKLYTLVLTDPDAPSRKDPKFREWHHFLVV.N*	54.97	-8.2	756.1978	5
PEBP-1	P70296|PEBP1_MOUSE		M.A(+42.01)ADISQW.A*	54.67	0.4	416.6956	2
PEBP-1	P70296|PEBP1_MOUSE		L.RVDYAGVTVDELGKVLTPTQVMN.R*	52.06	-0.4	835.7717	3
Prepronociceptin	Q64387|PNOC_MOUSE	Nociceptin	R.FGGFTGARKSARKLANQ.K	85.05	0.4	603.6677	3
Prepronociceptin	Q64387|PNOC_MOUSE		R.FGGFTGARKSA.R	64.51	3.7	549.7902	2
Prepronociceptin	Q64387|PNOC_MOUSE		R.VRSLVQV.R	47.38	6	400.7555	2
Proenkephalin-A	P22005|PENK_MOUSE	Met-enkephalin-Arg-Ser-Leu	R.YGGFMRSL.K	84.05	1.1	465.7292	2
Proenkephalin-A	P22005|PENK_MOUSE	Met-enkephalin-Arg-Phe	R.YGGFMRF	74.42	2.4	439.2059	2
Proenkephalin-A	P22005|PENK_MOUSE	Met-enkephalin-Arg	R.YGGFMR.R	49.04	5.5	365.6727	2
Proenkephalin-A	P22005|PENK_MOUSE	Met-enkaphalin	R.YGGFM.K	46.77	0.3	574.2332	1
Proenkephalin-A	P22005|PENK_MOUSE	Leu-enkaphalin	R.YGGFL.K	42.6	4.5	556.2791	1
Proenkephalin-A	P22005|PENK_MOUSE	BAM18	R.YGGFMRRVGRPEWWMDYQ.K	64.79	1.8	778.6961	3
Proenkephalin-A	P22005|PENK_MOUSE		K.YGGFM(+15.99).K	50.26	3	590.2297	1
Proenkephalin-A	P22005|PENK_MOUSE		R.SPQLEDEAKELQ.K	99.63	1.8	693.8422	2
Proenkephalin-A	P22005|PENK_MOUSE		R.YGGFMKKMDELYPMEPEEEANGGEILA.K	98.98	0.4	1016.7943	3
Proenkephalin-A	P22005|PENK_MOUSE		R.VGRPEWWMDYQ.K	90.91	0.4	733.83	2
Proenkephalin-A	P22005|PENK_MOUSE		R.SPQLEDEAKEL.Q	90.85	-1.4	629.8108	2
Proenkephalin-A	P22005|PENK_MOUSE		R.VGRPEWWMDY.Q	90.12	0.3	669.8006	2
Proenkephalin-A	P22005|PENK_MOUSE		E.LYPMEPEEEANGGEILA.K	85.71	0.7	931.4304	2
Proenkephalin-A	P22005|PENK_MOUSE		R.SPQLEDEAKE.L	85.15	1.8	573.2707	2
Proenkephalin-A	P22005|PENK_MOUSE		R.PEWWMDYQ.K	75.52	2.9	577.7358	2
Proenkephalin-A	P22005|PENK_MOUSE		R.VGRPEW.W	40.21	3.9	372.1968	2
Proenkephalin-A	P22005|PENK_MOUSE		R.YGGFMRRV(-.98).G	73.96	3.5	492.7652	2
Proenkephalin-A	P22005|PENK_MOUSE		R.VGRPEWWM(+15.99)DYQ.K	72.57	0.7	741.8276	2
Proenkephalin-A	P22005|PENK_MOUSE		R.YGGFMRRVGRPEWWMDYQKRYGGFL.K	72.37	3	789.6389	4
Proenkephalin-A	P22005|PENK_MOUSE		R.YGGFMKKMDELYPMEPEEEANGGEIL.A	71.24	4.9	993.1198	3
Proenkephalin-A	P22005|PENK_MOUSE		R.VGRPEWWMD.Y	68.98	6.2	588.2724	2
Proenkephalin-A	P22005|PENK_MOUSE		R.VGRPEWWM.D	67.74	4.9	530.7579	2
Proenkephalin-A	P22005|PENK_MOUSE		P.Q(-17.03)LEDEAKELQ.K	66.43	2	593.2864	2
Proenkephalin-A	P22005|PENK_MOUSE		R.YGGFM(+15.99)RF	61	3.2	447.2038	2

Supplementary Table S1 Peptides Identified from Mouse Brain (including entire brain and hypothalamus) (Continued)

Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
Proenkephalin-A	P22005|PENK_MOUSE		D.SHQQESTNNDEDMS.S	59.1	1.4	811.3063	2
Proenkephalin-A	P22005|PENK_MOUSE		R.YGGFM(+15.99)RSL.K	57.6	2.8	473.7275	2
Proenkephalin-A	P22005|PENK_MOUSE		R.FAESLPSDEEGENYSKEVPEIEKRYGGFMRF	55.26	-0.7	728.9433	5
Proenkephalin-A	P22005|PENK_MOUSE		Y.GGFMRSL.K	53.85	2.5	384.198	2
Proenkephalin-A	P22005|PENK_MOUSE		Y.GGFMRF	53.39	2.7	357.6742	2
Proenkephalin-A	P22005|PENK_MOUSE		Q.LEDEAKELQ.K	52.13	-0.3	537.7691	2
Proenkephalin-A	P22005|PENK_MOUSE		R.SPQLEDEA.K	50.31	0.8	888.3952	1
Proenkephalin-A	P22005|PENK_MOUSE		R.SPQLEDE.A	46.71	0	817.3574	1
Proenkephalin-A	P22005|PENK_MOUSE		R.YGGFMRS.L	45.95	2.7	409.1878	2
Proenkephalin-A	P22005|PENK_MOUSE		R.YGGFMKKDADEGDTLANSSDLL(-.98).K	30.14	5.8	470.0269	5
Proenkephalin-B	O35417|PDYN_MOUSE	Rimorphin (Dynorphin B)	R.YGGFLRRQFKVVT.R	52.11	3.4	524.3017	3
Proenkephalin-B	O35417|PDYN_MOUSE	Dynorphin A(1-8)	R.YGGFLRRI.R	33.98	-0.2	491.2849	2
Proenkephalin-B	O35417|PDYN_MOUSE	Dynorphin A(1-17)	R.YGGFLRRIRPKLKWDNQ.K	49.13	2.2	537.5562	4
Proenkephalin-B	O35417|PDYN_MOUSE		R.PKLKWDNQ.K	67.19	2.3	514.7809	2
Proenkephalin-B	O35417|PDYN_MOUSE	Beta-neoendorphin	R.YGGFLRKYP.K	66.23	2.7	367.5354	3
Proenkephalin-B	O35417|PDYN_MOUSE	Alpha-neoendorphin	R.YGGFLRKYPK.R	64.71	2.3	614.8469	2
Proenkephalin-B	O35417|PDYN_MOUSE		R.SSEMARDEDGGQDGDQVGHEDLY.K	76.7	1.4	837.3395	3
Proenkephalin-B	O35417|PDYN_MOUSE		R.SQENPNTYSEDLDV	70.71	-1.8	805.843	2
Progonadoliberin-1	P13562|GON1_MOUSE	Gonadoliberin-1	S.Q(-17.03)HWSYGLRPG(-.98).G	103.86	2.8	591.7954	2
Pro-MCH	P56942|MCH_MOUSE	Neuropeptide-glutamic acid-isoleucine	R.EIGDEENSAKFPI(-.98).G	97.89	1.7	724.358	2
Pro-MCH	P56942|MCH_MOUSE		R.NLEDDIVFNTFRMGKAFQKEDTAE.R*	96.56	-2.1	940.1146	3
Pro-MCH	P56942|MCH_MOUSE		E.IGDEENSAKFPI(-.98).G	95.85	0	659.8354	2
Pro-MCH	P56942|MCH_MOUSE		S.KSIRNLEDDIVFNTFRMGKAFQKEDTAE.R*	84.05	-3.5	826.4144	4
Pro-neuropeptide Y	P57774|NPY_MOUSE	Neuropeptide Y	G.YPSKPDNPGEDAPAEDMARYYSALRHYINLITRQRY(-.98).G	102.46	-2.7	1068.2747	4
Pro-neuropeptide Y	P57774|NPY_MOUSE		R.SSPETLISDLLMKESTENAPRTRLEDPSMW	84.85	2.5	1145.2281	3
Pro-neuropeptide Y	P57774|NPY_MOUSE		P.SKPDNPGEDAPAEDMARYYSALRHYINLITRQRY(-.98).G	84.31	3.2	573.7184	7
Pro-neuropeptide Y	P57774|NPY_MOUSE		G.YPSKPDNPGEDAPAEDMARYYSALRHYINLITRQRY.G	75.24	3.4	855.0233	5
Pro-neuropeptide Y	P57774|NPY_MOUSE		R.SSPETLISDLLMKESTENAPRTRLEDPSM.W*	68.73	4.1	1083.2032	3
Pro-neuropeptide Y	P57774|NPY_MOUSE		D.APAEDMARYYSALRHYINLITRQRY(-.98).G*	63.25	2.1	614.9229	5
Pro-neuropeptide Y	P57774|NPY_MOUSE		R.SSPETLISDLLMKESTENAPRTRLEDPSM(+15.99)W	62.4	-1.3	863.1684	4
Pro-opiomelanocortin	P01193|COLI_MOUSE	Melanotropin alpha	R.S(+42.01)YSMEHFRWGKPV(-.98).G	43.54	4.8	555.6075	3
Pro-opiomelanocortin	P01193|COLI_MOUSE	Lipotropin gamma	R.ELEGERPLGLEQVLESDAEKDDGPYRVEHFRWSNPPKD.K	84.94	-1.9	888.2318	5
Pro-opiomelanocortin	P01193|COLI_MOUSE	J PEPTIDE	R.AEEEAVWGDGSPEPSPRE(-.98).G	92.97	5.2	970.9397	2
Pro-opiomelanocortin	P01193|COLI_MOUSE	CLIP	R.RPVKVYPNVAENESAEAFPLEF.K	48.78	0.9	836.0927	3
Pro-opiomelanocortin	P01193|COLI_MOUSE	Beta-endorphin	R.YGGFMTSEKSQTPLVTLFKNAIIKNAHKKGQ	142.4	0.3	859.9659	4
Pro-opiomelanocortin	P01193|COLI_MOUSE		R.YGGFMTSEKSQTPLVTLFKNAIIKNAH.K	95.97	0.4	749.6485	4
Pro-opiomelanocortin	P01193|COLI_MOUSE		R.ELEGERPLGLEQV.L	82.77	1.9	734.8871	2
Pro-opiomelanocortin	P01193|COLI_MOUSE		R.ELEGERPLGLEQVLESDAEKDDGPYRVEHF.R	82.65	-1.9	692.1355	5
Pro-opiomelanocortin	P01193|COLI_MOUSE		R.SYSMEHFRWGKPV(-.98).G	76.09	1.8	541.6024	3
Pro-opiomelanocortin	P01193|COLI_MOUSE		R.KYVMGHFRWD.R	75.1	3.2	446.8867	3
Pro-opiomelanocortin	P01193|COLI_MOUSE		R.WSNPPKD.K	69.56	3	422.2046	2
Pro-opiomelanocortin	P01193|COLI_MOUSE		K.YVMGHFRWD.R	55.01	6.3	404.1895	3
ProSAAS	Q9QXV0|PCSK1_MOUSE	PEN-20	R.SVDQDLGPEVPPENVLGALL.R	71.58	-0.5	1031.5383	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.SVDQDLGPEVPPENVLGAL.L	89.18	-1.2	974.9955	2
ProSAAS	Q9QXV0|PCSK1_MOUSE	PEN	R.SVDQDLGPEVPPENVLGALLRV.K	127.27	-1.6	1159.1217	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.AVPRGEAAGAVQEL.A	82.03	1.7	684.3687	2

Supplementary Table S1 Peptides Identified from Mouse Brain (including entire brain and hypothalamus) (Continued)

Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
ProSAAS	Q9QXV0|PCSK1_MOUSE		S.LSAASAPLVETSTPLRL.R	83.06	-0.1	863.4907	2
ProSAAS	Q9QXV0|PCSK1_MOUSE	LITTLE SAAS	R.SLSAASAPLVETSTPLRL.R	101.55	0.4	907.0073	2
ProSAAS	Q9QXV0|PCSK1_MOUSE	Little LEN	R.LENPSPQAPA.R	84.41	0.6	512.2592	2
ProSAAS	Q9QXV0|PCSK1_MOUSE	GAV	R.AVPRGEAAGAVQELARALAHLLEAERQE.R	135.83	-0.3	985.8632	3
ProSAAS	Q9QXV0|PCSK1_MOUSE	Big SAAS	S.ARPVKEPRSLSAASAPLVETSTPLRL.R	86.73	2.7	687.3966	4
ProSAAS	Q9QXV0|PCSK1_MOUSE	Big LEN	R.LENPSPQAPARRLLPP	70.25	1.6	878.4982	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.GEAAGAVQELARALAHLLEAERQE.R	125.99	0.4	633.8348	4
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.AVPRGEAAGAVQELARALAHLLEAERQERA.R	120.08	0.1	637.3487	5
ProSAAS	Q9QXV0|PCSK1_MOUSE		D.PPLAPDDDPDAPAAQLARALLRA.R	110.72	1.6	785.4215	3
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.AVPRGEAAGAVQELARALAHLLEAERQ.E*	109.26	1.1	707.3895	4
ProSAAS	Q9QXV0|PCSK1_MOUSE		A.ASAPLVETSTPLRL.R	97.64	2.7	727.9162	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.AVPRGEAAGAVQELA.R	96.25	3.4	719.8885	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		S.AASAPLVETSTPLRL.R	93.58	1.8	763.4342	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		D.AGDETPDVDPELLRYLLGRILTGSSEPEAAPAPRRL.R*	93.42	0.4	969.5132	4
ProSAAS	Q9QXV0|PCSK1_MOUSE		D.GPTGPDVEDAGDETPDVDPELLRYLLGRILTGSSEPEAAPAPRRL.R*	93.42	4.9	1186.359	4
ProSAAS	Q9QXV0|PCSK1_MOUSE		D.ETPDVDPELLRYLLGRILTGSSEPEAAPAPRRL.R*	88.8	-1.2	908.7404	4
ProSAAS	Q9QXV0|PCSK1_MOUSE		D.VEDAGDETPDVDPELLRYLLGRILTGSSEPEAAPAPRRL.R*	87.57	-5.6	1055.2915	4
ProSAAS	Q9QXV0|PCSK1_MOUSE		S.APLVETSTPLRL.R	87.57	-0.1	648.8796	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		A.SAPLVETSTPLRL.R	87.18	-1.7	692.3945	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		D.DPDAPAAQLARALLRA.R*	85.67	-0.3	550.3089	3
ProSAAS	Q9QXV0|PCSK1_MOUSE		L.SAASAPLVETSTPLRL.R	79.52	-0.5	806.9484	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		S.ARPVKEPRSLSAASAPLVETSTPL.R	76.97	0.9	620.099	4
ProSAAS	Q9QXV0|PCSK1_MOUSE		S.ARPVKEPRSLS.A*	76.7	3.6	413.9119	3
ProSAAS	Q9QXV0|PCSK1_MOUSE		P.LVETSTPLRL.R	76.48	1.4	564.8356	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.AVPRGEAAGAVQELARAL.A	76.37	2.4	889.9993	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		L.LEAERQERARAEAQEAEDQQARVL.A*	75.88	2	699.8564	4
ProSAAS	Q9QXV0|PCSK1_MOUSE		D.VDPELLRYLLGRILTGSSEPEAAPAPRRL.R*	70.35	0.4	798.1993	4
ProSAAS	Q9QXV0|PCSK1_MOUSE		D.PDAPAAQLARALLRA.R	68.38	-0.1	511.9668	3
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.AVPRGEAAGAVQE.L*	68.06	0.3	627.8256	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		A.Q(-17.03)LVPAPAAAPRPRPPVYDDGPTGPDVEDAGDETP DVDPELLRYLLGRILTGSSEPEAAPAPRRL.R*	66.93	6.4	1123.5846	6
ProSAAS	Q9QXV0|PCSK1_MOUSE		G.SSEPEAAPAPRRL.R	66.15	-0.9	690.8645	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		L.GRILTGSSEPEAAPAPRRL.R	64.42	1.7	660.0335	3
ProSAAS	Q9QXV0|PCSK1_MOUSE		A.WGSPRASDPPLAPDDDPDAPAAQLARALLRA.R	61.96	-0.5	803.4123	4
ProSAAS	Q9QXV0|PCSK1_MOUSE		D.VDPELLRYLLGRILTGSSEPEAAPAP.R*	60.07	-0.1	922.1674	3
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.SLSAASAPLVETSTPL.R	59.53	3.8	772.4172	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		A.RLDPAALAAQL.V	57.91	5	569.8354	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		S.ARPVKEPRSLSA.A	57.89	1.1	437.5899	3
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.SVDQDLGPEVPPENVLGA.L	57.67	-0.7	918.454	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		D.PPLAPDDD.P*	57.37	3.1	839.3807	1
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.ARAEAQEAEDQQARVLAQLLRA.W*	56.25	0.5	610.0784	4
ProSAAS	Q9QXV0|PCSK1_MOUSE		P.LVETSTPL.R*	55.13	-0.1	859.4771	1
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.AVPRGEAAGAVQELARALAHLLEAERQERARAE AQEAEDQQARVLAQLLRAWGSP.R	53.22	-4	745.5203	8
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.AVPRGEAAGAVQELARALAHLLEAE.R*	51.64	-0.8	636.3483	4
ProSAAS	Q9QXV0|PCSK1_MOUSE		A.ASAPLVETSTPL.R	50.75	1.1	593.3223	2
ProSAAS	Q9QXV0|PCSK1_MOUSE		S.AASAPLVETSTPL.R*	47.94	1.7	628.8413	2

Supplementary Table S1 Peptides Identified from Mouse Brain (including entire brain and hypothalamus) (Continued)

Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
ProSAAS	Q9QXV0|PCSK1_MOUSE		AQEAEDQQARVLAQLLRAWGSPRASD.P	47.84	2.9	710.4899	9
ProSAAS	Q9QXV0|PCSK1_MOUSE		A.RPVKEPRSLSAASAPLVETSTPLRL.R	49.48	-2.6	669.6338	4
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.LENPSPQ.A*	46.23	0.3	784.3838	1
ProSAAS	Q9QXV0|PCSK1_MOUSE		R.ILTGSSEPEAAPAPRRL.R	45.91	2.2	588.9929	3
Protachykinin-1	P41539|TKN1_MOUSE	Substance P	R.RPKPQQFFGLM(-.98).G	94.08	-0.8	674.3708	2
Protachykinin-1	P41539|TKN1_MOUSE	Neuropeptide K	R.DADSSVEKQVALLKALYGHGQISHKRHKTDSFVGLM.G	38.89	2	794.0204	5
Protachykinin-1	P41539|TKN1_MOUSE	Neurokinin A	R.HKTDSFVGLM(-.98).G	75.71	-1.3	567.2915	2
Protachykinin-1	P41539|TKN1_MOUSE	C-terminal-flanking peptide	R.ALNSVAYERSAMQNYE.R	102.52	1.5	923.4268	2
Protachykinin-1	P41539|TKN1_MOUSE		R.DAD(+79.97)SSVEKQVALLKALYGHGQISH.K	50.98	1.1	662.3292	4
Protachykinin-1	P41539|TKN1_MOUSE		R.DADSSVEKQVALLKALYGHGQISH.K	130.56	5.2	642.3403	4
Protachykinin-1	P41539|TKN1_MOUSE		R.DADSSVEKQVALLKALYGHGQIS.H	88.74	1.1	810.4281	3
Protachykinin-1	P41539|TKN1_MOUSE		R.RPKPQQF.F	75.84	3.7	450.7578	2
Protachykinin-1	P41539|TKN1_MOUSE		R.HKTDSFVGLM(-.98)(+15.99).G	67.2	-1.1	575.2891	2
Protachykinin-1	P41539|TKN1_MOUSE		R.ALNSVAYE.R	62.19	0.8	433.7167	2
Protachykinin-1	P41539|TKN1_MOUSE		R.PKPQQFFGLM(-.98).G	55.8	0.1	596.3208	2
Protachykinin-1	P41539|TKN1_MOUSE		R.ALNSVAYERSAMQNY.E*	55.04	-0.3	858.9039	2
Protachykinin-1	P41539|TKN1_MOUSE		A.LNSVAYE.R*	50.79	0.8	795.3889	1
Protachykinin-1	P41539|TKN1_MOUSE		R.SAMQNY.E*	45.28	0	713.2923	1
Protachykinin-1	P41539|TKN1_MOUSE		R.SAMQNYE.R*	44.07	1.9	842.3365	1
Prothyroliberin	Q62361|TRH_MOUSE		R.E(-18.01)EKEEDVEAEERGDLGEVGAWRPH.K	119.04	2.1	687.8193	4
Prothyroliberin	Q62361|TRH_MOUSE		A.LLEAAQEEGAVTPDLPGLEKVQVRPE.R*	116.3	1.6	930.1639	3
Prothyroliberin	Q62361|TRH_MOUSE		E.KEEDVEAEERGDLGEVGAWRPH.K*	111.65	9	627.8048	4
Prothyroliberin	Q62361|TRH_MOUSE		E.EKEEDVEAEERGDLGEVGAWRPH.K*	109.82	3.7	660.0623	4
Prothyroliberin	Q62361|TRH_MOUSE		R.EEKEEDVEAEERGDLGEVGAWRPH.K	108.11	2.4	692.3221	4
Prothyroliberin	Q62361|TRH_MOUSE		R.GDLGEVGAWRPH.K	99.11	2.2	647.3217	2
Prothyroliberin	Q62361|TRH_MOUSE		R.E(+42.01)EKEEDVEAEERGDLGEVGAWRPH.K	80.76	0.1	702.8232	4
Prothyroliberin	Q62361|TRH_MOUSE		K.DLQRVRGDLGAALDSWIT.K	74.76	2.5	993.5262	2
Prothyroliberin	Q62361|TRH_MOUSE		R.FLRKDLQRVRGDLGAALDSWIT.K	72.46	0.7	844.135	3
Prothyroliberin	Q62361|TRH_MOUSE		R.KDLQRVRGDLGAALDSWIT.K	57.73	-1.8	705.382	3
Prothyroliberin	Q62361|TRH_MOUSE		R.RFLRKDLQRVRGDLGAALDSWIT.K*	55.09	3.3	672.3801	4
Prothyroliberin	Q62361|TRH_MOUSE		R.FLRKDLQRV.R	53.7	2.9	392.2411	3
Prothyroliberin	Q62361|TRH_MOUSE		R.SFPWMESDVT.K	52.4	2.8	599.7596	2
Prothyroliberin	Q62361|TRH_MOUSE		S.FPWMESDVT.K	46.75	-0.1	1111.4764	1
Purkinje cell protein 4	P63054|PEP19_MOUSE	Pep-19	M.S(+42.01)ERQSAGATNGKDKTSGDNDGQKKVQEE FDIDMDAPETERAAVAIQSQFRKFQKKKAGSQS	87.66	2.9	747.0384	9
Purkinje cell protein 4	P63054|PEP19_MOUSE		D.APETERAAVAIQSQFRKFQKKKAGSQS	107.48	2.1	748.6601	4
Purkinje cell protein 4	P63054|PEP19_MOUSE		Q.SQFRKFQKKKAGSQS	63.77	-0.1	439.4969	4
secretogranin-1	P16014|SCG1_MOUSE		R.GLQYRGRGS(+79.97)EEDRAPRP.R*	63.75	3.7	506.7437	4
secretogranin-1	P16014|SCG1_MOUSE		K.HIEDS(+79.97)GEKPNTFSN.K	62.36	-1.1	827.8399	2
secretogranin-1	P16014|SCG1_MOUSE		R.GLQYRGRGS(+79.97)EEDRAPRPR.S	57.4	3.7	436.8168	5
secretogranin-1	P16014|SCG1_MOUSE		K.HIEDS(+79.97)GEKPNTFS.N	56.85	0.4	770.8197	2
secretogranin-1	P16014|SCG1_MOUSE		R.PSPKES(+79.97)KEADVATVRLGE.K	51.71	0.8	664.9933	3
Secretogranin-1	P16014|SCG1_MOUSE		K.SGKEVKGEEKGENQNSKFEVRLL.R	135.09	1.1	869.1251	3
Secretogranin-1	P16014|SCG1_MOUSE		R.ADQRVLTAEEKKELENLAAMDLELQKIAEKFSQR(-.98).G*	129.26	-0.3	789.6237	5
Secretogranin-1	P16014|SCG1_MOUSE		R.LLDEGHYPVRESPIDTA.K	119.18	2.6	956.4784	2
Secretogranin-1	P16014|SCG1_MOUSE		R.LGALFNPYFDPLQWKNSDF.E*	105.84	0.6	1136.5581	2

Supplementary Table S1 Peptides Identified from Mouse Brain (including entire brain and hypothalamus) (Continued)

Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
Secretogranin-1	P16014|SCG1_MOUSE		K.SGKEVKGEEKGENQNSKFEV.R	104	1.6	556.5286	4
Secretogranin-1	P16014|SCG1_MOUSE		E.SKEADVATVRLGE.K*	103.05	2.9	687.8668	2
Secretogranin-1	P16014|SCG1_MOUSE		R.GLQYRGRGSEEDRAPRPR.S	101.54	0.9	420.8223	5
Secretogranin-1	P16014|SCG1_MOUSE		R.SGSNKSSYEGHPLSEERRPSPKESKEADVATVRLGE.K*	100.58	0.3	783.5916	5
Secretogranin-1	P16014|SCG1_MOUSE		R.LGALFNPYFDPLQWKNSDFE.K	100.14	0.8	801.0554	3
Secretogranin-1	P16014|SCG1_MOUSE		R.GLQYRGRGSEEDRAPRP.R	99.26	2.4	486.7514	4
Secretogranin-1	P16014|SCG1_MOUSE		R.QYDGVAELDQLLHY.R	97.23	2.1	832.4034	2
Secretogranin-1	P16014|SCG1_MOUSE		R.NHPDSELESTANRHGEETEEERSYEGANGRQH.R	95.7	0	733.9224	5
Secretogranin-1	P16014|SCG1_MOUSE		R.LLDEGHYPVRESPIDT.A	94.98	3.6	920.9608	2
Secretogranin-1	P16014|SCG1_MOUSE		A.LFNPYFDPLQWKNSD.F*	94.84	1	942.4527	2
Secretogranin-1	P16014|SCG1_MOUSE		K.SGKEVKGEEKGENQNSKFEVR.L	93.63	1	595.5535	4
Secretogranin-1	P16014|SCG1_MOUSE		R.NHPDSELESTANRHGEETEEERSYEGANGRQHRGRGREPGAHSALDT.R*	91.73	1.9	654.1788	8
Secretogranin-1	P16014|SCG1_MOUSE		R.GRGREPGAHSALDTREE.K	91.52	2.1	460.2289	4
Secretogranin-1	P16014|SCG1_MOUSE		R.GRGSEEDRAPRPR.S	91.43	1.7	371.4441	4
Secretogranin-1	P16014|SCG1_MOUSE		Y.DGVAELDQLLHY.R	91.29	1.5	686.8418	2
Secretogranin-1	P16014|SCG1_MOUSE		R.NHPDSELESTANRHGEETEEERSYEGANGRQHRGRGREPGAHSALDTREE.K*	91.07	-3.2	705.9486	8
Secretogranin-1	P16014|SCG1_MOUSE		L.GALFNPYFDPLQWKNSDFE.K	90.43	1.4	1144.5382	2
Secretogranin-1	P16014|SCG1_MOUSE		R.ADQRVLTAEEKKELENLAAMDLELQKIAEKFSQ.R*	90.31	-2.1	758.599	5
Secretogranin-1	P16014|SCG1_MOUSE		R.SHHLAHYRASEEEPEYGEESRSY.R*	89.17	-0.1	691.5561	4
Secretogranin-1	P16014|SCG1_MOUSE		R.Q(-17.03)YDGVAELDQLLHY.R	89.08	0.1	823.8885	2
Secretogranin-1	P16014|SCG1_MOUSE		L.Q(-17.03)KIAEKFSQR(-.98).G	88.5	3.7	406.2329	3
Secretogranin-1	P16014|SCG1_MOUSE		K.SGKEVKGEEKGENQNSKFEVRL.L	88.34	0.5	623.8242	4
Secretogranin-1	P16014|SCG1_MOUSE		K.SGKEVKGEEKGENQNSKFE.V	88.28	3.8	531.7625	4
Secretogranin-1	P16014|SCG1_MOUSE		K.HIEDSGEKPNTFS.N	88.26	-1	730.8355	2
Secretogranin-1	P16014|SCG1_MOUSE		K.HIEDSGEKPNTFSN.K	87.77	-0.2	787.8575	2
Secretogranin-1	P16014|SCG1_MOUSE		E.RRPSPKESKEADVATVRLGE.K*	87.47	1.4	557.0562	4
Secretogranin-1	P16014|SCG1_MOUSE		R.LGALFNPYFDPLQ.W	87.07	1	747.8857	2
Secretogranin-1	P16014|SCG1_MOUSE		R.LGALFNPYFDPLQW.K	85.97	1.7	840.926	2
Secretogranin-1	P16014|SCG1_MOUSE		R.NHPDSELESTANRHGEETEEE.R	85.11	-1.1	804.0048	3
Secretogranin-1	P16014|SCG1_MOUSE		R.RPSPKESKEADVATVRLGE.K*	84.4	-1.1	518.0295	4
Secretogranin-1	P16014|SCG1_MOUSE		R.SFARAPQLDLKRQYDGVAELDQLLHY.R	83.77	-0.4	762.3987	4
Secretogranin-1	P16014|SCG1_MOUSE		R.LLDEGHYPV.R	83.46	-0.5	521.7635	2
Secretogranin-1	P16014|SCG1_MOUSE		R.GSEEDRAPRPR.S	82.03	3	423.8825	3
Secretogranin-1	P16014|SCG1_MOUSE		R.SYEGANGRQHRGRGREPGAHSALDTREE.K*	81.86	-0.8	619.4994	5
Secretogranin-1	P16014|SCG1_MOUSE		R.SEESQEREY.K	81.66	1.8	578.7423	2
Secretogranin-1	P16014|SCG1_MOUSE		R.NHPDSELESTANRHGEETEE.E	81.62	-0.7	760.9909	3
Secretogranin-1	P16014|SCG1_MOUSE		R.YPQSKWQEQE.K	81.31	2.3	661.8057	2
Secretogranin-1	P16014|SCG1_MOUSE		R.SFARAPQLDL.K	80.93	3.3	559.3055	2
Secretogranin-1	P16014|SCG1_MOUSE		R.PSPKESKEADVATVRLGE.K	79.97	-1.6	638.3362	3
Secretogranin-1	P16014|SCG1_MOUSE		R.YPQSKWQEQEKNY.L*	77.6	2.5	576.6071	3
Secretogranin-1	P16014|SCG1_MOUSE		R.Q(-17.03)YDGVAELDQLLHYRKKA.D	75.8	5.8	533.283	4
Secretogranin-1	P16014|SCG1_MOUSE		R.SYEGANGRQHRGRGREPGAHSALDT.R*	75.42	0.3	536.6628	5
Secretogranin-1	P16014|SCG1_MOUSE		R.KRLGALFNPYFDPLQWKNSDFE.K*	72.71	-0.5	672.0916	4
Secretogranin-1	P16014|SCG1_MOUSE		R.SFARAPQLD.L	71.72	1.2	502.7622	2
Secretogranin-1	P16014|SCG1_MOUSE		R.GRGREPGAHSALDTRE.E	71.38	0.6	427.9675	4
Secretogranin-1	P16014|SCG1_MOUSE		K.ELENLAAMDLELQKIAEKFS.Q	69.3	1.2	764.7321	3
Secretogranin-1	P16014|SCG1_MOUSE		L.LDEGHYPV.R	67.78	0.7	465.2221	2

Supplementary Table S1 Peptides Identified from Mouse Brain (including entire brain and hypothalamus) (Continued)

Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
Secretogranin-1	P16014|SCG1_MOUSE		L.DEGHYPV.R	66.05	3.5	408.6812	2
Secretogranin-1	P16014|SCG1_MOUSE		K.ELENLAAMDLELQKIAEKFSQR(-.98).G	64.7	2.9	644.596	4
Secretogranin-1	P16014|SCG1_MOUSE		R.YPQSKWQEQ.E	64.04	3.2	597.2848	2
Secretogranin-1	P16014|SCG1_MOUSE		R.SFARAPQL.D	63.83	2.7	445.2493	2
Secretogranin-1	P16014|SCG1_MOUSE		R.GRGREPGAHSALDT.R*	62.2	1.9	475.2403	3
Secretogranin-1	P16014|SCG1_MOUSE		F.ARAPQLDL.K*	57.34	2.9	442.2547	2
Secretogranin-1	P16014|SCG1_MOUSE		R.NHPDSELESTANRHGEETEEERSYEGANGRQ.H*	56.56	0	882.8865	4
Secretogranin-1	P16014|SCG1_MOUSE		R.DPADASGTRWASS.R	56.15	1.3	660.7952	2
Secretogranin-1	P16014|SCG1_MOUSE		L.DQLLHY.R	55.62	3.8	394.702	2
Secretogranin-1	P16014|SCG1_MOUSE		S.FARAPQLDL.K*	55.3	-1.2	515.787	2
Secretogranin-1	P16014|SCG1_MOUSE		R.ESPIDTA.K*	54.91	-0.3	732.3408	1
Secretogranin-1	P16014|SCG1_MOUSE		L.LDEGHYPVRESPIDTA.K*	53.84	3.3	600.2936	3
Secretogranin-1	P16014|SCG1_MOUSE		K.DESVARADAHSMELEEKTHSREQSSQESGEET.R*	53.68	1.5	718.7184	5
Secretogranin-1	P16014|SCG1_MOUSE		E.SPIDTA.K*	50.34	0.2	603.2985	1
Secretogranin-1	P16014|SCG1_MOUSE		R.GRGSEEDRAPRP.R*	45.71	1.7	332.4187	4
Secretogranin-1	P16014|SCG1_MOUSE		R.APQLDL.K	35.28	0.2	656.3615	1
secretogranin2	Q03517|SCG2_MOUSE		K.GGYPKAPGRGMVEALPDGLSVEDILNVL.G*	67.42	-0.3	956.5035	3
secretogranin-2	Q03517|SCG2_MOUSE	Secretoneurin	R.TNEIVEEQYTPQSLATLESVFQELGKLTGPSNQ.K	72.43	3	1217.611	3
secretogranin-2	Q03517|SCG2_MOUSE	Manserin	R.VPSPVSSEDDLQEEEQLEQAIKEHLGPGSSQEMERLAKVS.K	123.49	-5.3	882.0272	5
secretogranin-2	Q03517|SCG2_MOUSE		R.AMENM	30.13	3.9	595.2238	1
secretogranin-2	Q03517|SCG2_MOUSE		R.ESKDQLSEDASKVITYL.R	116.86	0.5	963.4892	2
secretogranin-2	Q03517|SCG2_MOUSE		L.GMENVVNQKSPYFPNQYSQDKALMR.L*	116.42	-0.6	736.857	4
secretogranin-2	Q03517|SCG2_MOUSE		R.SGQLGLPDEENRRESKDQLSEDASKVITY.L*	114.73	0.5	816.9053	4
secretogranin-2	Q03517|SCG2_MOUSE		D.TPNRQYLDEDMLLKVLEYLNQEQAEQGREHL.A*	110.44	1.4	755.3788	5
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNEDTPNRQYLDEDMLLKVLEYLNQEQAEQGREHLA.K*	109.15	1.9	980.0971	5
secretogranin-2	Q03517|SCG2_MOUSE		A.ASFQRNQLLQKEPDLRLENV.Q*	107.98	0.1	600.3264	4
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNEDTPNRQYLDEDMLLKVLEYLNQEQAEQGREHL.A*	106.45	-1.8	965.886	5
secretogranin-2	Q03517|SCG2_MOUSE		R.VPSPVSSEDDLQEEEQLEQAIKEHLGPGSSQEMERLA.K*	104.96	0.3	1023.7394	4
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNEDTPNRQYLDEDMLLKVLEYLNQEQAEQGREH.L*	101.64	1.5	943.2725	5
secretogranin-2	Q03517|SCG2_MOUSE		Y.SQDKALMRLPYGPGKSR.A*	100.69	2.7	476.761	4
secretogranin-2	Q03517|SCG2_MOUSE		L.GMENVVNQKSPYFPNQY.S*	100.24	3.7	1007.9737	2
secretogranin-2	Q03517|SCG2_MOUSE		A.ASFQRNQLLQKEPDLRL.E*	97.71	2.6	514.7892	4
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNEDTPN.R	97.08	1.1	692.36	2
secretogranin-2	Q03517|SCG2_MOUSE		A.PYENLNDQELGEYLARMLVKYPELLNTNQL.K*	96.66	-1.2	1194.2698	3
secretogranin-2	Q03517|SCG2_MOUSE		Y.LDEDMLLKVLEYLNQEQAEQGREHLA.K*	95.91	0.8	1028.8492	3
secretogranin-2	Q03517|SCG2_MOUSE		A.PYENLNDQELGEYLARMLVKYPELLNT.N*	95.57	2.5	1075.8788	3
secretogranin-2	Q03517|SCG2_MOUSE		Y.LDEDMLLKVLEYLNQEQAEQGREHL.A*	94.18	-0.1	754.1287	4
secretogranin-2	Q03517|SCG2_MOUSE		F.PLMYEENSRENPF.K	93.97	0.7	813.3674	2
secretogranin-2	Q03517|SCG2_MOUSE		R.MLVKYPELLNTNQL.K*	93.65	-0.2	838.4578	2
secretogranin-2	Q03517|SCG2_MOUSE		L.NDQELGEYLARMLVKYPELLNTNQL.K*	91.83	0.7	988.8433	3
secretogranin-2	Q03517|SCG2_MOUSE		L.MYEENSRENPF.K*	91.72	3.1	708.3006	2
secretogranin-2	Q03517|SCG2_MOUSE		A.PYENLNDQELGEYLARMLVKY.P*	91.25	0.1	853.4247	3
secretogranin-2	Q03517|SCG2_MOUSE		D.TPNRQYLDEDMLLKVLEYLNQEQAEQGREHLA.K*	90.55	-1.8	961.7279	4
secretogranin-2	Q03517|SCG2_MOUSE		R.SGQLGLPDEENRRESKDQLSEDASKVITYL.R	89.61	1	845.1768	4
secretogranin-2	Q03517|SCG2_MOUSE		E.YLNQEQAEQGREHLA.K*	88.55	1.5	595.9562	3
secretogranin-2	Q03517|SCG2_MOUSE		L.GMENVVNQKSPYFPNQYSQDKALMRL.P*	87.46	5.6	765.1328	4
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNEDTPNRQY.L*	87.39	-0.8	610.9825	3

Supplementary Table S1 Peptides Identified from Mouse Brain (including entire brain and hypothalamus) (Continued)

Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
secretogranin-2	Q03517|SCG2_MOUSE		R.ANQIPKVAWIPDVES.R*	87.02	-0.7	833.9429	2
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNEDTPNR.Q	86.64	1.3	513.943	3
secretogranin-2	Q03517|SCG2_MOUSE		Q.YLDEDMLLKVLEYLNQEQAEQGREHLA.K*	85.2	1.1	812.6548	4
secretogranin-2	Q03517|SCG2_MOUSE		R.SGQLGLPDEEN.R	84.19	2	579.7684	2
secretogranin-2	Q03517|SCG2_MOUSE		L.ARMLVKYPELLNTNQL.K*	83	0.5	952.0276	2
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNEDTPNRQYLDEDM(+15.99)LLKVLEYLNQEQAEQGREHLA.K	82.97	1.6	983.2958	5
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNEDTPNRQYLDEDMLLKVLEYLNQEQAEQ(-.98).G	82.92	-1.3	1058.7837	4
secretogranin-2	Q03517|SCG2_MOUSE		L.GMENVVNQKSPYFPNQYSQDKAL.M*	80.45	3.4	886.4299	3
secretogranin-2	Q03517|SCG2_MOUSE		L.VKYPELLNTNQL.K	79.71	2.7	716.3976	2
secretogranin-2	Q03517|SCG2_MOUSE		R.SGQLGLPDE.E	78.97	3.1	458.226	2
secretogranin-2	Q03517|SCG2_MOUSE		K.PLDSQSIYQLIEI.S*	78.63	4.5	759.9095	2
secretogranin-2	Q03517|SCG2_MOUSE		L.ATLESVFQELGKLTGPSNQ.K	78.52	0.6	673.685	3
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNEDTPNRQYLDEDM(+15.99)LLKVLEYLNQEQAEQGREHL.A*	78.51	3.8	969.0905	5
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNEDTPNRQYLDEDMLLK.V*	77.98	0.7	697.8605	4
secretogranin-2	Q03517|SCG2_MOUSE		R.SGQLGLPDEENRRESKDQLSEDASKVITYLRRL.V*	74.43	0.3	761.3997	5
secretogranin-2	Q03517|SCG2_MOUSE		N.RQYLDEDMLLKVLEYLNQEQAEQGREHLA.K*	73.09	-0.5	707.1562	5
secretogranin-2	Q03517|SCG2_MOUSE		L.NDQELGEYLARMLVKYPELLNTN.Q*	72.99	-0.3	908.4615	3
secretogranin-2	Q03517|SCG2_MOUSE		F.QELGKLTGPSNQ.K	72.94	1.8	636.3343	2
secretogranin-2	Q03517|SCG2_MOUSE		Y.LNQEQAEQGREHLA.K*	72.85	0	541.6008	3
secretogranin-2	Q03517|SCG2_MOUSE		Y.PELLNTNQL.K	71.23	3	521.2839	2
secretogranin-2	Q03517|SCG2_MOUSE		R.LPYGPGKSRANQIPKVAWIPDVES.R*	70.91	-0.5	656.3561	4
secretogranin-2	Q03517|SCG2_MOUSE		R.NQLLQKEPDLRLENV.Q*	68.6	5.4	603.6702	3
secretogranin-2	Q03517|SCG2_MOUSE		M.YEENSRENPF.K*	67.34	-2.9	642.7762	2
secretogranin-2	Q03517|SCG2_MOUSE		R.DSKENTEKNEQINEEM.K*	67.13	2.8	646.6198	3
secretogranin-2	Q03517|SCG2_MOUSE		K.VLEYLNQEQAEQGREHLA.K*	66.87	0.3	709.6872	3
secretogranin-2	Q03517|SCG2_MOUSE		A.ASFQRNQL.L*	66.56	1	482.2544	2
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNEDTPNRQ.Y*	65.86	3.5	556.6305	3
secretogranin-2	Q03517|SCG2_MOUSE		A.ASFQRNQLLQKEPDLRLENVQKFPSPEM.I*	65.69	1.2	836.438	4
secretogranin-2	Q03517|SCG2_MOUSE		R.LLQKPLDSQSIYQLIEI.S*	64.64	-2.1	1001.0649	2
secretogranin-2	Q03517|SCG2_MOUSE		Q.YLDEDMLLKVLEYLNQEQAEQGREHL.A*	64.42	-0.5	794.8943	4
secretogranin-2	Q03517|SCG2_MOUSE		I.SRNLQIPPEDLIEML.K*	60.08	-3.6	884.4659	2
secretogranin-2	Q03517|SCG2_MOUSE		L.NDQELGEYLARMLVKY.P*	58.44	5.5	647.9996	3
secretogranin-2	Q03517|SCG2_MOUSE		A.ASFQRNQLL.Q*	57.11	0.5	538.7962	2
secretogranin-2	Q03517|SCG2_MOUSE		L.KENGEESHLAESSRDALSEDEW.M*	56.74	0.4	630.2798	4
secretogranin-2	Q03517|SCG2_MOUSE		K.VAWIPDVES.R*	54.58	-2.9	1015.5065	1
secretogranin-2	Q03517|SCG2_MOUSE		L.VNAVGSGRSQSGPNGDRAARLLQK.P*	53.36	0.3	610.3299	4
secretogranin-2	Q03517|SCG2_MOUSE		R.IPVGSLKNED.T	51.68	0.7	536.288	2
secretogranin-2	Q03517|SCG2_MOUSE		L.KAGEKPNGLVEPEQDLEL.A*	50.36	1.7	656.0101	3
secretogranin-2	Q03517|SCG2_MOUSE		K.PLDSQSIYQLIEISRNL.Q*	49.39	-1.5	663.6923	3
Secretogranin-3	P47867|SCG3_MOUSE		R.ELSAERPLNEQIAEAEAD.K	109.57	0.1	992.9766	2
Secretogranin-3	P47867|SCG3_MOUSE		A.FPKPEGSQDKSLHN.R	104.67	1.8	528.5995	3
Secretogranin-3	P47867|SCG3_MOUSE		R.AITEKETVEKERQSI.R	88.18	2.4	587.6525	3
Secretogranin-3	P47867|SCG3_MOUSE		A.FPKPEGSQDKSLHNRELSAERPLNEQIAEAEADKI.K*	84.75	-0.2	790.2035	5
Secretogranin-3	P47867|SCG3_MOUSE		R.ELSAERPLNEQIAEAE.A	70.98	-0.5	899.944	2
Secretogranin-3	P47867|SCG3_MOUSE		R.ELSAERPLNEQIAEAEADKI.K	60.73	3.9	742.7159	3
Secretogranin-3	P47867|SCG3_MOUSE		L.LRAITEKETVEKERQSI.R*	51.76	5.8	508.2894	4
Somatoliberin	P16043|SLIB_MOUSE		R.HVDAIFTTNYRKLLSQLYARKVIQDIMNKQGERIQEQRARLS.R	89.7	-0.7	719.5375	7

Supplementary Table S1 Peptides Identified from Mouse Brain (including entire brain and hypothalamus) (Continued)

Precursor Name	Uniprot Accession	Peptide Name	Peptide	-10lgP	ppm	m/z	z
Somatoliberin	P16043|SLIB_MOUSE		C.SLPPSPPFRMQ.R*	68.02	0.6	628.8268	2
Somatostatin	P60041|SMS_MOUSE	Somatostatin-28-14	R.SANSNPAMAPRE.R	88.22	2.1	622.7893	2
Somatostatin	P60041|SMS_MOUSE	Somatostatin-14	K.AGCKNFFWKTFTSC	88.84	3.8	820.3765	2
Somatostatin	P60041|SMS_MOUSE		G.APSDPRLRQFLQKSLAAATGKQELAKYF.L*	99.01	-1.2	627.7473	5
Somatostatin	P60041|SMS_MOUSE		G.APSDPRLRQFLQKSLAAATGKQELAKY.F*	97.21	-1.4	747.665	4
Somatostatin	P60041|SMS_MOUSE		G.APSDPRLRQFLQKSL.A*	51.03	2.9	828.4642	2
Somatostatin	P60041|SMS_MOUSE	Somatostatin-28	R.SANSNPAMAPRERKAGCKNFFWKTFTSC	92.71	1.9	787.6251	4
Somatostatin	P60041|SMS_MOUSE		R.SANSNPAMAPR.E*	76.68	-0.3	558.2665	2
Somatostatin	P60041|SMS_MOUSE		R.SANSNPAM(+15.99)APRE.R	72.82	2.1	630.7868	2
Somatostatin	P60041|SMS_MOUSE		G.APSDPRLRQFLQKSLAAATGKQEL.A	71.84	4.6	657.1202	4
Somatostatin	P60041|SMS_MOUSE		L.Q(-17.03)RSANSNPAMAPRE.R*	68.94	-1.3	756.3536	2
Somatostatin	P60041|SMS_MOUSE		K.AGCKNFFWKT.F	68.81	3.7	401.2004	3
Somatostatin	P60041|SMS_MOUSE		N.SNPAMAPRE.R	61.06	0.1	486.732	2
Somatostatin	P60041|SMS_MOUSE		K.SLAAATGKQELAK.Y	60.78	2.5	644.3685	2
Somatostatin	P60041|SMS_MOUSE		G.APSDPRLRQFLQKSLAA.A	55.52	3.1	475.2721	4
Somatostatin	P60041|SMS_MOUSE		G.APSDPRLRQFLQKSLAAATGKQE.L	54.45	0.7	628.8466	4
Somatostatin	P60041|SMS_MOUSE		G.APSDPRL.R*	53.06	4.2	378.2075	2
Somatostatin	P60041|SMS_MOUSE		R.SANSNPAM.A	52.47	0.4	791.3355	1
Tachykinin-3	P55099|TKNK_MOUSE	Neurokinin-B	R.DMHDFFVGLM(-.98).G	70.38	3.3	605.7748	2
Tachykinin-3	P55099|TKNK_MOUSE		R.NSQPDTPTDVVEENTPSFGIL.K*	81.3	-1	1130.5333	2
Tachykinin-3	P55099|TKNK_MOUSE		R.DMHDFFVGLM(-.98)(+15.99).G	62.33	0.7	613.7707	2
Tachykinin-3	P55099|TKNK_MOUSE		R.DMHDFFVGL.M	52.79	-0.1	540.7445	2
Tachykinin-3	P55099|TKNK_MOUSE		T.S(+42.01)LPQKRDM(+15.99)HDFFVGLM(+15.99)GK.R*	50.95	-6.7	545.7675	4
Tachykinin-3	P55099|TKNK_MOUSE		R.DM(+15.99)HDFFVGLM(-.98).G	50.52	0.5	613.7706	2
Tuberoinfundibular peptide of 39 residues	Q91W27|TIP39_MOUSE		A.LPLAGVFSLRAPGRAWAGLGSPLS.R*	89.23	0.2	798.4534	3
Vasoactive intestinal peptide	P32648|VIP_MOUSE	Vasoactive intestinal peptide	R.HSDAVFTDNYTRLRKQMAVKKYLNSILN(-.98).G	75.84	3.2	831.949	4
Vasoactive intestinal peptide	P32648|VIP_MOUSE	Intestinal peptide PHI-27	R.HADGVFTSDYSRLLGQISAKKYLESLI(-.98).G	113.97	1.4	753.4064	4
Vasoactive intestinal peptide	P32648|VIP_MOUSE		K.Q(-17.03)MAVKKYLNSILN(-.98).G	78.82	2.2	752.4229	2
Vasoactive intestinal peptide	P32648|VIP_MOUSE		R.HSDAVFTDNYTRL.R	68.5	2.3	513.5804	3
Vasoactive intestinal peptide	P32648|VIP_MOUSE		R.HSDAVFTDNYT.R	61.71	2	635.274	2
Vasopressin-neurophysin 2-copeptin	P35455|NEU2_MOUSE		R.LVQLAGTRESVDSAKPRVY	110.03	1.5	697.0526	3
Vasopressin-neurophysin 2-copeptin	P35455|NEU2_MOUSE		L.AGTRESVDSAKPRVY	104.54	2.5	545.9545	3
Vasopressin-neurophysin 2-copeptin	P35455|NEU2_MOUSE		L.VQLAGTRESVDSAKPRVY	99.72	2.6	659.3585	3
Vasopressin-neurophysin 2-copeptin	P35455|NEU2_MOUSE		L.RLVQLAGTRESVDSAKPRVY	95.69	1.4	562.0665	4
Vasopressin-neurophysin 2-copeptin	P35455|NEU2_MOUSE		C.YFQNCPRG(-.98).G	84.3	2.5	492.2307	2
Vasopressin-neurophysin 2-copeptin	P35455|NEU2_MOUSE		V.QLAGTRESVDSAKPRVY*	82	3.5	626.3362	3
Vasopressin-neurophysin 2-copeptin	P35455|NEU2_MOUSE		A.GTRESVDSAKPRVY	69.08	2.9	522.2756	3
Vasopressin-neurophysin 2-copeptin	P35455|NEU2_MOUSE		L.VQLAGTRESVDSAKP.R	68.32	3.2	779.4177	2
Vasopressin-neurophysin 2-copeptin	P35455|NEU2_MOUSE		L.VQLAGTRESVDSAKPR.V	67.98	2.5	571.981	3
Vasopressin-neurophysin 2-copeptin	P35455|NEU2_MOUSE		L.VQLAGTRESVDSAKPRV.Y	61.96	4.6	605.0052	3
Vasopressin-neurophysin 2-copeptin	P35455|NEU2_MOUSE		L.AGTRESVDSAKPR.V	56.38	0.3	458.576	3
Vasopressin-neurophysin 2-copeptin	P35455|NEU2_MOUSE		L.RLVQLAGTRESVDSAKPRV.Y*	55.75	-2.3	521.2986	4

PTMS: Delta mass -17.03, Pyro-glutamate formation from glutamatic acid or glutamine ; Delta mass -0.98, amidation; Delta mass +42.01, acetylation; Delta mass +79.97, phosphorylation
* indicates previously unreported peptides; CART, Cocaine- and amphetamine-regulated transcript protein; PACAP, Pituitary adenylate cyclase-activating polypeptide
PEBP-1, Phosphatidylethanolamine-binding protein 1; VIP, Vasoactive intestinal peptide