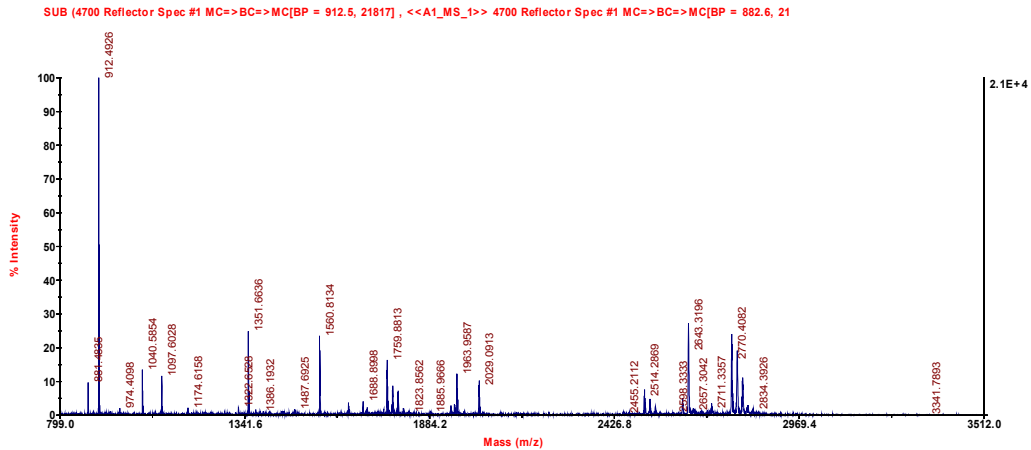


Stanton, Sluka et al: Proteomic changes in rat spermatogenesis in response to in vivo androgen manipulation; impact on meiotic cells.

## Table S3 Mass Spectra for Identified Proteins

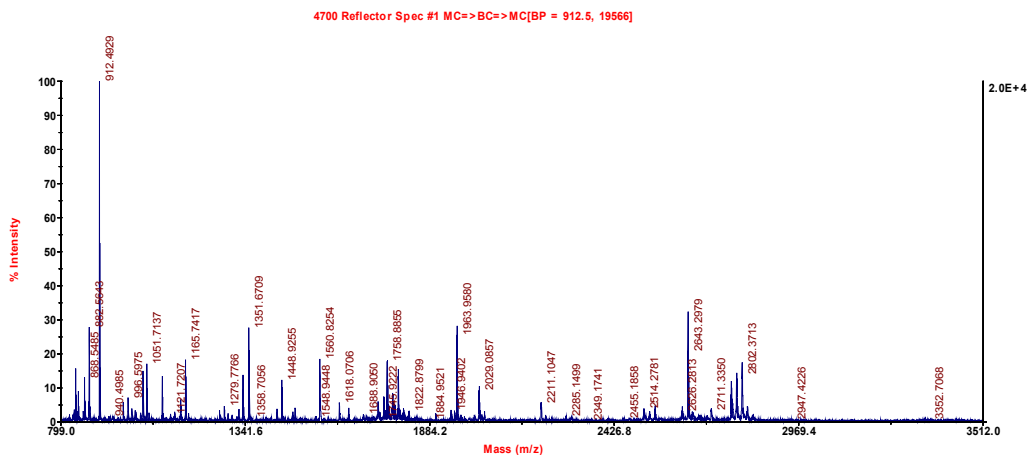
### Spot 1 (A3 20080606) – Phosphatidylethanolamine-binding protein 1 (Pebp1)



Spot 1 (20080606-A3) Pebp1							
MS•MS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
881.4839	881.4835	0	180	187	LHDGLAGK		
912.4937	912.4913	-3	149	155	FKVESFR		
912.4937	912.4913	-3	149	155	FKVESFR	55	100
1351.674	1351.6621	-9	27	39	VDYGGVTVDLGGK		
1351.674	1351.6621	-9	27	39	VDYGGVTVDLGGK	50	99.999
1560.8268	1560.8151	-7	63	76	LYTLVLTDPDAPSR	33	99.949
1560.8268	1560.8151	-7	63	76	LYTLVLTDPDAPSR		
1688.9218	1688.9044	-10	63	77	LYTLVLTDPDAPSRK		
1758.8896	1758.8826	-4	81	93	FREWHHFLVNMK		Oxidation (M)
1758.8896	1758.8826	-4	81	93	FREWHHFLVNMK		Oxidation (M)
1963.9607	1963.9598	0	94	113	GNDISSGTVLSEYVGSPPK	91	100
1963.9607	1963.9598	0	94	113	GNDISSGTVLSEYVGSPPK		
2514.2656	2514.29	10	40	62	VLPTQVMNRPSSISWDGLDPGK		Oxidation (M)
2643.3008	2643.3284	10	94	119	GNDISSGTVLSEYVGSPPKDTGLHR		
2643.3008	2643.3284	10	94	119	GNDISSGTVLSEYVGSPPKDTGLHR	55	100

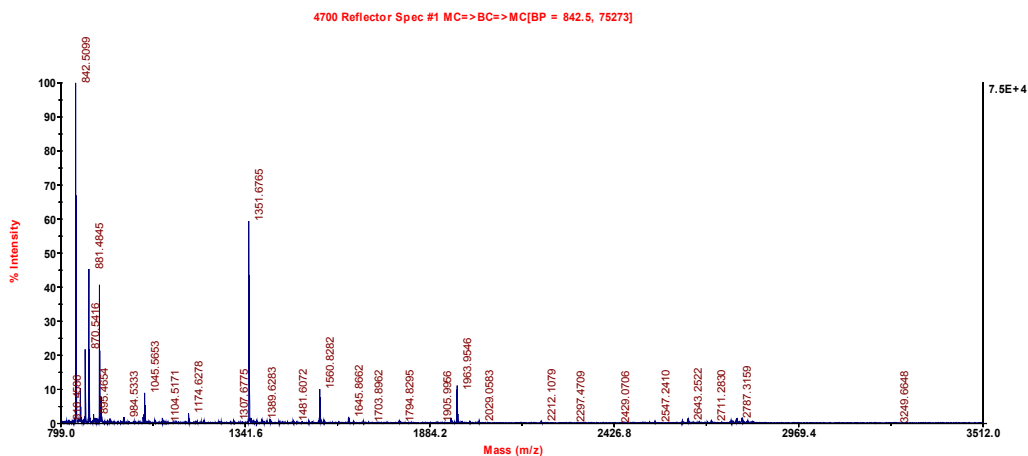
Spot 1 (20080606-A3) Pebp1							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1350.6667	1351.6636	-8	27	39	R.VDYGGVTVDLGGK.V		
2513.2584	2514.2871	9	40	62	K.VLPTQVMNRPSSISWDGLDPGK.L		Oxidation (M)
1559.8195	1560.8134	-9	63	76	K.LYTLVLTDPDAPSR.K		
1687.9145	1688.8999	-13	63	77	K.LYTLVLTDPDAPSRK.D		
2028.0891	2029.0914	-2	63	80	K.LYTLVLTDPDAPSRKDPK.F		
1757.8824	1758.8802	-5	81	93	K.FREWHHFLVNMK.G		Oxidation (M)
1454.7129	1455.6968	-16	83	93	R.EWHHFLVNMK.G		Oxidation (M)
1962.9635	1963.9589	-1	94	113	K.GNDISSGTVLSEYVGSPPK.D		
2642.2936	2643.3196	7	94	119	K.GNDISSGTVLSEYVGSPPKDTGLHR.Y		
1096.6029	1097.6028	-7	147	155	R.GKFVESFR.K		
911.4865	912.4926	-1	149	155	K.FKVESFR.K		
1039.5815	1040.6954	-3	149	156	K.FKVESFRK.K		
2704.2955	2705.303	0	156	179	R.KKYHLGAPYAGTCFQAEWDDSVPK.L		
880.4767	881.4835	0	180	187	K.LHDGLAGK.		

## Spot 1 (D4 20080815) - Phosphatidylethanolamine-binding protein 1 (Pebp1)



Spot 1 (20080815-D4) Pebp1						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	
881.4839	881.4843	0	180	187	LHDQLAGK	
912.4937	912.4923	-2	149	155	FKVESFR	
912.4937	912.4923	-2	149	155	FKVESFR	34
1351.674	1351.6698	-3	27	39	VYGGVTVDELGK	99.957
1351.674	1351.6698	-3	27	39	VYGGVTVDELGK	54
1560.8268	1560.8223	-3	63	76	LYTLVLTDPDAPSR	100
1560.8268	1560.8223	-3	63	76	LYTLVLTDPDAPSR	26
1758.8896	1758.8821	-4	81	93	FREWHFLVNMK	99.727
1758.8896	1758.8821	-4	81	93	FREWHFLVNMK	
1963.9607	1963.9541	-3	94	113	GNDISSGTVLSEYVGSPPK	Oxidation (M)
1963.9607	1963.9541	-3	94	113	GNDISSGTVLSEYVGSPPK	66
1963.9607	1963.9541	-3	94	113	GNDISSGTVLSEYVGSPPK	100
2514.2656	2514.2722	3	40	62	VLTPQVMNRPSSISWDGLDPGK	Oxidation (M)
2643.3008	2643.2937	-3	94	119	GNDISSGTVLSEYVGSPPKDTGLHR	
2643.3008	2643.2937	-3	94	119	GNDISSGTVLSEYVGSPPKDTGLHR	57

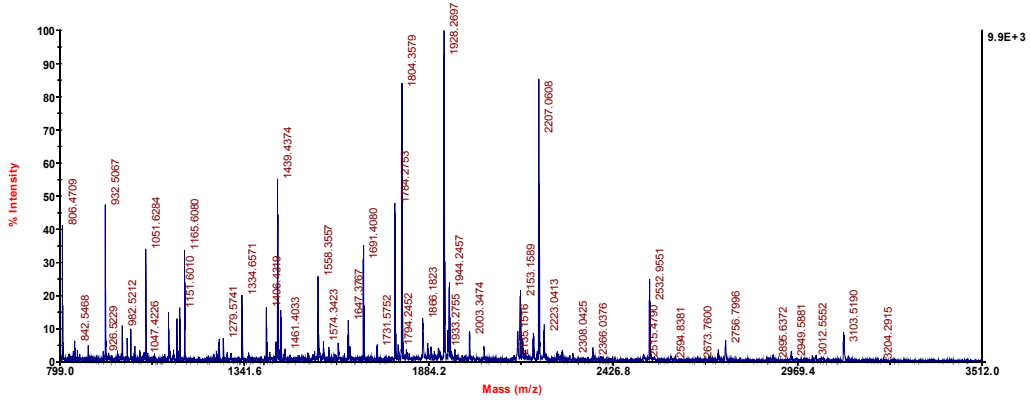
## Spot 1 (D18 20080815) - Phosphatidylethanolamine-binding protein 1 (Pebp1)



Spot 1 (20080815-D18) Pebp1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1350.6667	1351.6765	2	27	39	R.VYGGVTVDELGK.V	
2513.2584	2514.2517	-6	40	62	K.VLTPQVMNRPSSISWDGLDPGK.L	Oxidation (M)
1559.8195	1560.8282	1	63	76	K.LYTLVLTDPDAPSR.K	
1687.9145	1688.9125	-5	63	77	K.LYTLVLTDPDAPSRK.D	
2028.0891	2029.0584	-19	63	80	K.LYTLVLTDPDAPSRKDPK.F	
1757.8824	1758.83	-34	81	93	K.FREWHFLVNMK.G	Oxidation (M)
1438.718	1439.754	20	83	93	R.EWHFLVNMK.G	
1962.9535	1963.9546	-3	94	113	K.GNDISSGTVLSEYVGSPPK.D	
2642.2936	2643.2522	-18	94	119	K.GNDISSGTVLSEYVGSPPKDTGLHR.Y	
1096.6029	1097.6086	-1	147	155	R.GKFVESFR.K	
911.4865	912.495	1	149	155	K.FKVESFR.K	
1039.5815	1040.5895	1	149	156	K.FKVESFRK.K	
892.513	893.4838	-41	151	157	K.VESFRKK.Y	
880.4767	881.4845	1	180	187	K.LHDQLAGK.-	

## Spot 4 (C20 20080606) - Alpha-enolase (Eno1)

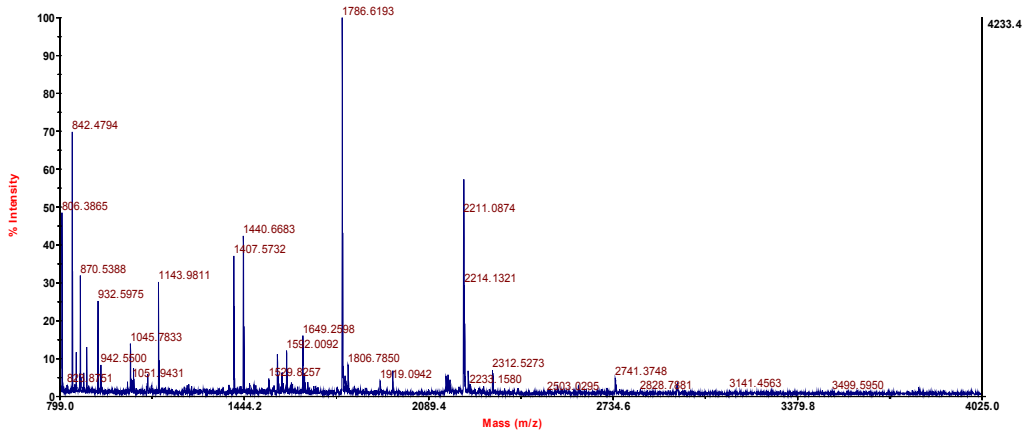
SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 1929.3, 9947] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 67



Spot 4 (20080606.C20) Eno1						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	
806.4518	806.4478	-5	407	412	YNGILR	
806.4518	806.4478	-5	407	412	YNGILR	22
932.5311	932.5351	4	427	434	SFRNPLAK	
932.5311	932.5351	4	427	434	SFRNPLAK	3
1118.6681	1118.6691	1	404	412	LAKYNQILR	
1143.6156	1143.6167	1	184	193	IGAEVYHNLK	
1259.7106	1259.7148	3	121	132	AGAVEKGVPLRY	
1406.7162	1406.6876	-20	16	26	GNPTVEVDLYTAK	
1439.7417	1439.7106	-22	270	281	YITPDQLADLYK	47
1439.7417	1439.7106	-22	270	281	YITPDQLADLYK	99.999
1646.8319	1646.7548	-47	180	193	EAMRIGAEVYHNLK	
1691.8962	1691.8134	-49	407	420	YNGILRIEELGSK	Oxidation (M)
1691.8962	1691.8134	-49	407	420	YNGILRIEELGSK	

## Spot 4 (D15 20070719) – Alpha-enolase (Eno1)

4700 Reflector Spec #1 MC=>BC=>MC[BP = 1786.6, 4233]



Spot 4 (20070719.D15) Eno1						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	
806.4518	806.4626	13	406	411	YNGILR	
806.4518	806.4626	13	406	411	YNGILR	3
932.5311	932.5218	-10	426	433	SFRNPLAK	12
932.5311	932.5218	-10	426	433	SFRNPLAK	95.732
1056.536	1056.531	-5	253	261	AGKYDLDFK	
1143.6156	1143.6307	13	183	192	IGAEVYHNLK	27
1143.6156	1143.6307	13	183	192	IGAEVYHNLK	99.88
2192.0327	2192.1135	37	233	252	AGYTDQVIGMDVAASEFYR	
2208.0278	2208.1079	36	233	252	AGYTDQVIGMDVAASEFYR	Oxidation (M)

## Spot 9 (P1014-16) – mixture of: Aldose reductase (Akr1b1), Palmitoyl-protein thioesterase 1 (Ppt-1) and L-lactate dehydrogenase C chain (Ldhc)

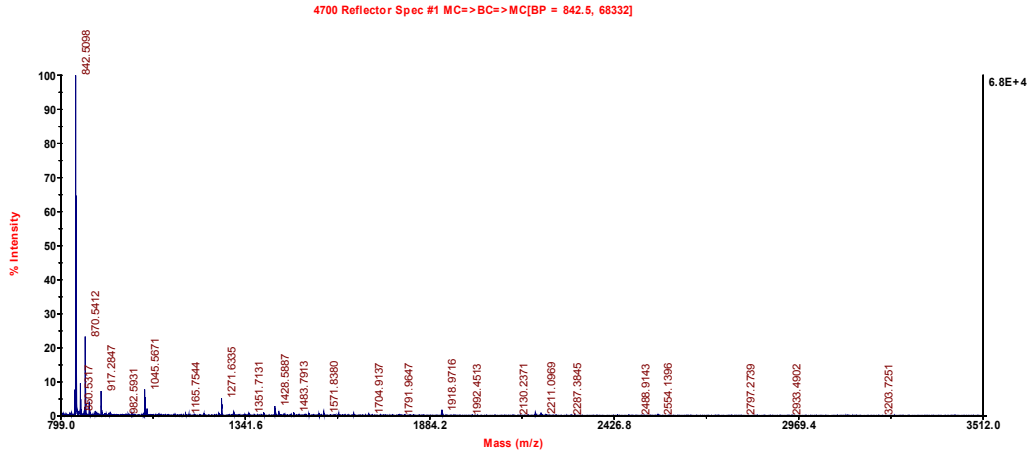
Spot 9 (P1014-16) Akr1b1, Ppt-1 & Ldhc LCMS/MS (Scaffold)											
Sample Name	Acc No.	Proteins(s) inferred	No. Peptides identified	Sequence Coverage	Position in sequence	Peptide Sequence	Precursor m/z	Charge observed	Calculated mass (neutral)	Mascot score	Mascot Expect value
P1014-16	P07943	sp P07943 Aldose reductase Tax_id=101116 [Rattus norvegicus]	1	4.43%	156 - 169	(K)AIGVSNFNPLQIER(I)	779.22	2	1556.42	78.3	5.48E-005
	P45479	sp P45479 Palmitoyl-protein thioesterase 1 Tax_id=101116 [Rattus norvegicus]	1	4.90%	254 - 268	(K)ETIPLQETTLYTEDR(L)	905.22	2	1808.43	91.4	2.39E-006
	P19629	sp P19629 L-lactate dehydrogenase C chain Tax_id=101116 [Rattus norvegicus]	1	5.72%	2 - 20	(M)STVKEQLIQNLAPDEKQSR(C)	742.56	3	2224.66	58.0	5.87E-003

Spot 9 [P1014-16 (75965 Rattus)] Akr1b1 LCMS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1212.7078	606.9384	1	54	64	K.EVGVALGEK(L)K.E	9	
1567.6799	523.7704	0	79	90	K.LWCTFHDGSMVK.G	7	Oxidation (M)
1556.8311	779.2179	0	156	169	K.AIGVSNFNPLQIER.I	78	
1556.8311	779.2619	0	156	169	K.AIGVSNFNPLQIER.I	50	

Spot 9 [P1014-16 (75965 Rattus)] Ppt-1 LCMS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
952.4549	476.9599		1	8	- .MASPGYRR.L	11	Oxidation (M)
3121.5624	1041.2379		123	151	R.AVAGRCPTPPMMLTISVGGQHGQVGFGLPR.C	10	Oxidation (M)
1037.5505	519.8224		165	174	R.KSLNAGAYSK.V	33	
2279.1281	760.6489		249	268	R.SGQAKETIPLQETTLYTEDR.L	22	
1807.884	905.2199		254	268	K.ETIPLQETTLYTEDR.L	91	
1335.7584	446.9589		274	285	K.MDKAGKLVFLAK.E	15	Oxidation (M)

Spot 9 [P1014-16 (75075 Rodent)] Ldhc LCMS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
2225.1651	742.5602		2	20	M.STVKEQLIQNLAPDEKQSR.C	58	Acetyl (Protein N-term)

**Spot 16 (D14 20080815) - mCG11326, isoform CRA\_b [Mus musculus] (Hnrnp3)  
and or Heterogeneous nuclear ribonucleoprotein H3 [Mus musculus]  
(MCG11326, isoform CRA\_a) (Hnrnp3)**



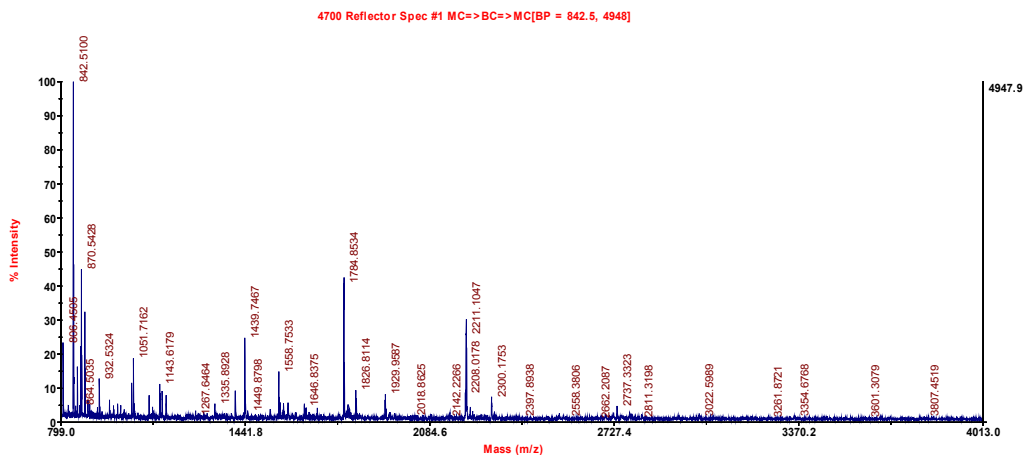
**Spot 16 (20080815-D14) Hnrnp3 (mCG11326, isoform CRA\_b)**

PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1338.5913	1339.6135	11	7	19	K.HNGPNDASDGTVR.L		
1270.6194	1271.6335	5	56	67	R.STGEAFVGFASK.E		
2196.1062	2197.0503	-29	56	76	R.STGEAFVGFASKEIAENALGK.H		
943.4974	944.5088	4	68	76	K.EIAENALGK.H		
839.4541	840.4645	4	85	90	R.YIEIFR.S		
805.4294	806.4384	2	91	97	R.SSRSEIK.G		
1307.651	1308.6807	17	94	104	R.SEIKGFYDPPR.R		
850.3974	851.4062	4	98	104	K.GFYDPPR.R		
1006.4985	1007.5095	4	98	105	K.GFYDPPR.L		
1917.9585	1918.9716	3	191	207	R.ATENDIANFFSPLNPIR.V		
1051.5411	1052.5562	7	208	217	R.VHDIGADGR.A		
2192.9896	2194.0154	8	218	238	R.ATGEADVEFVTHEDAVAAMSK.D		Oxidation (M)
2553.1265	2554.1396	2	247	272	R.YIEFLNSTPGGGSGMGGSGMGGYGR.D		2 Oxidation (M)
1427.5736	1428.5887	6	273	286	R.DGMNDQGGYGSVGR.M		Oxidation (M)

**Spot 16 (20080815-D14) Hnrnp3 (mCG11326, isoform CRA\_a)**

PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1338.5913	1339.6135	11	7	19	K.HNGPNDASDGTVR.L		
1270.6194	1271.6335	5	56	67	R.STGEAFVGFASK.E		
2196.1062	2197.0503	-29	56	76	R.STGEAFVGFASKEIAENALGK.H		
943.4974	944.5088	4	68	76	K.EIAENALGK.H		
839.4541	840.4645	4	85	90	R.YIEIFR.S		
805.4294	806.4384	2	91	97	R.SSRSEIK.G		
1307.651	1308.6807	17	94	104	R.SEIKGFYDPPR.R		
850.3974	851.4062	4	98	104	K.GFYDPPR.R		
1006.4985	1007.5095	4	98	105	K.GFYDPPR.L		
1917.9585	1918.9716	3	206	222	R.ATENDIANFFSPLNPIR.V		
1051.5411	1052.5562	7	223	232	R.VHDIGADGR.A		
2192.9896	2194.0154	8	233	253	R.ATGEADVEFVTHEDAVAAMSK.D		Oxidation (M)
2553.1265	2554.1396	2	262	287	R.YIEFLNSTPGGGSGMGGSGMGGYGR.D		2 Oxidation (M)
1427.5736	1428.5887	6	288	301	R.DGMNDQGGYGSVGR.M		Oxidation (M)

# Spot 23 (D16 20070719) – Alpha-enolase (Eno1)



Spot 23 (20070719-D16) Eno1							
MS•MS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
806.4518	806.4495	-3	406	411	YNOILR		
806.4518	806.4495	-3	406	411	YNOILR		
899.5556	899.5547	-1	71	79	TIAPALVSK		
932.5311	932.5314	0	426	433	SFRNPLAK		
932.5311	932.5314	0	426	433	SFRNPLAK		
1118.6681	1118.678	9	403	411	LAKYNOILR		
1143.6156	1143.6194	3	183	192	IGAEVYHNLK		
1406.7162	1406.7246	6	15	27	GNPTVEVDLYTAK		
1439.7417	1439.75	6	269	280	YITPDQLADLYK		
1439.7417	1439.75	6	269	280	YITPDQLADLYK		
1528.6914	1528.6998	5	256	268	YDLDFKSPDDASR		
1557.759	1557.7505	-5	358	371	LAQSNQWGVVMVSHR		Oxidation (M)
1646.8319	1646.8419	6	179	192	EAMRIGAEVYHNLK		Oxidation (M)
1652.7506	1652.8015	31	89	102	IDQLMIEMDGTENK		Oxidation (M) [5]
1784.845	1784.8573	7	253	268	AGKYDLDFKSPDDASR		
1784.845	1784.8573	7	253	268	AGKYDLDFKSPDDASR	13	95.649
1804.9438	1804.9683	14	32	49	AAVPSGASTGIYEALRLR		
1928.9608	1928.9613	0	162	178	LAMGEFMILPVGASSFR		2 Oxidation (M)
1960.9246	1960.9446	10	202	220	DATNVGDEGGFAPNILENK		
2208.0278	2208.0281	0	233	252	AGYTDQVVIQMDVAASEFYR		Oxidation (M)
2208.0278	2208.0281	0	233	252	AGYTDQVVIQMDVAASEFYR		Oxidation (M)
2309.1042	2309.1313	12	199	220	YGKDATNVGDEGGFAPNILENK		
2534.2844	2534.3169	13	32	55	AAVPSGASTGIYEALRLRDNDKTR		

Spot 23 (20070719-D16) Eno1							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1405.7089	1406.7225	5	16	26	R.GNPTVEVDLYTAK.G		
1803.9366	1804.9624	10	33	50	R.AAVPSGASTGIYEALRLR.D		
898.5488	899.5552	-1	72	80	K.TIAPALVSK.K		
1651.7433	1652.7972	26	90	103	K.IDQLMIEMDGTENK.S		Oxidation (M)
1667.7382	1668.8114	40	90	103	K.IDQLMIEMDGTENK.S		2 Oxidation (M)
1927.9536	1928.9573	-2	163	179	K.LAMGEFMILPVGASSFR.E		2 Oxidation (M)
1645.8246	1646.8374	3	180	193	R.EAMRIGAEVYHNLK.N		Oxidation (M)
1142.8084	1143.6179	2	184	193	R.IGAEVYHNLK.N		
2308.0971	2309.113	4	200	221	K.YGKDATNVGDEGGFAPNILENK.E		
1959.9174	1960.9355	6	203	221	K.DATNVGDEGGFAPNILENK.E		
2661.3108	2662.2097	-41	229	253	K.SAAKAGYTDQVVIQMDVAASEFYR.A		
2207.0205	2208.0178	-5	234	253	K.AGYTDQVVIQMDVAASEFYR.A		Oxidation (M)
1527.6841	1528.693	1	257	269	K.YDLDFKSPDDASR.Y		
1438.7344	1439.7467	4	270	281	R.YITPDQLADLYK.S		
1556.7518	1557.7461	-8	359	372	K.LAQSNQWGVVMVSHR.S		Oxidation (M)
1117.6607	1118.6769	8	404	412	R.LAKYNOILR.I		
805.4446	806.4505	-2	407	412	K.YNOILR.I		
1690.8889	1691.9098	8	407	420	K.YNOILRIEELGSK.A		
903.4549	904.4266	-39	413	420	R.IEELGSK.A		
931.5239	932.5324	1	427	434	R.SFRNPLAK.-		

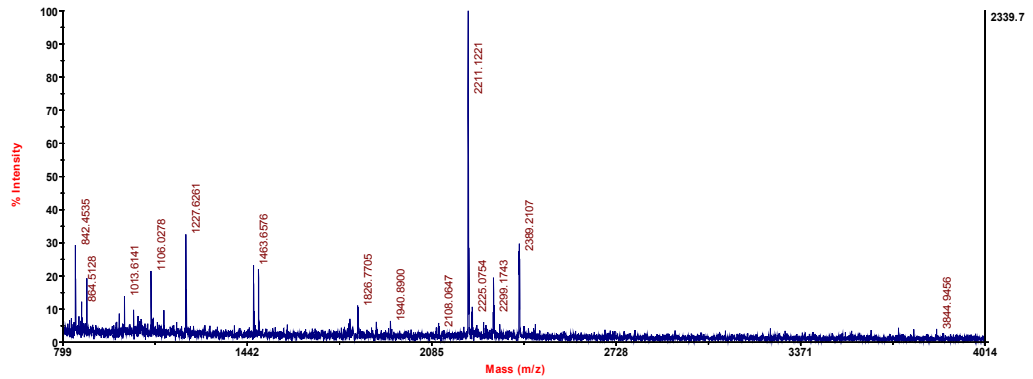
## Spot 29 (P1014-09) – 14-3-3 protein epsilon (Ywhae)

Spot 29 (P1014-09) Ywhae LCMS/MS (Scaffold)											
Sample Name	Acc No.	Protein(s) inferred	No. Peptides identified	Sequence Coverage	Position in sequence	Peptide Sequence	Precursor m/z	Charge observed	Calculated mass (neutral)	Mascot score	Mascot Expect value
P1014-09	P62260	sp P62260 14-3-3 protein epsilon Tax_id=101116 [Rattus norvegicus]	3	14.10%	143 - 153	(K)EAAENSLVAYK(A)	597.66	2	1193.30	53.2	1.99E-002
					30 - 42	(K)VAGMDVELTVEER(N)	732.10	2	1462.19	49.9	3.88E-002
					1 - 12	(-)MDDREDLVYQAK(L)	762.70	2	1523.39	52.5	2.08E-002

Spot 29 [P1014.9 (75067 Rodent) Ywhae LCMS/MS										
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification		
1523.6926	762.7021		1	12	-MDDREDLVYQAK.L	52		Acetyl (Protein N-term)		
1539.6875	770.7592		1	12	-MDDREDLVYQAK.L	41		Acetyl (Protein N-term); Oxidation (M)		
1539.6875	771.7377		1	12	-MDDREDLVYQAK.L	24		Acetyl (Protein N-term); Oxidation (M)		
1927.8665	644.1605		13	26	K.LAEQAERYDEMVESMK.K	21				
2071.9554	691.4199		13	29	K.LAEQAERYDEMVESMKK.V	9		Oxidation (M)		
1574.7974	526.1412		29	42	K.VAGMDVELTVEER.N	27				
1462.6974	732.1017		30	42	K.VAGMDVELTVEER.N	50		Oxidation (M)		
1193.5928	597.6581		143	153	K.EAAENSLVAYK.A	53				
1288.5419	645.1182		245	255	K.EALQDVEDENG.-	35				

# Spot 30 (E13 20070719) – Ferritin light chain 1 (Ftl1)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 8386] , <<E15\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 88



## Spot 30 (20070719-D14) Ftl1

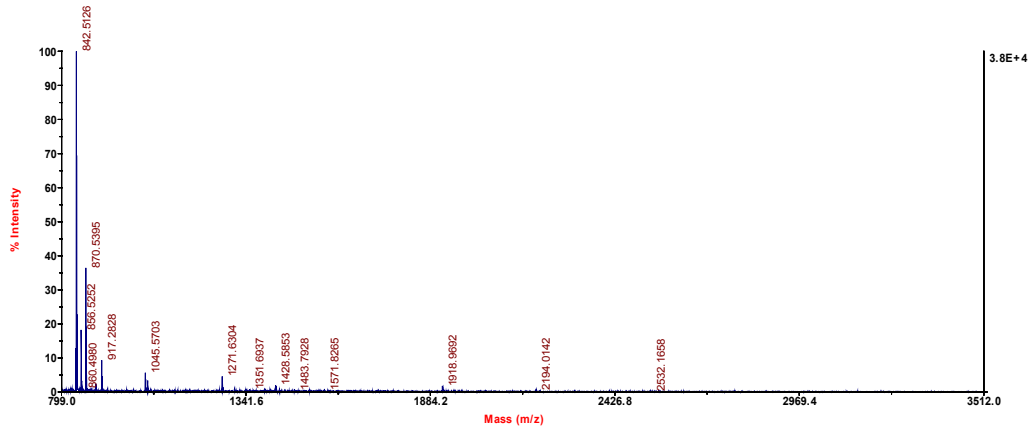
PMF/MALDI							
Calculated	Observed	+/- ppm	start	end	Sequence	Ion Score	C.I.% Modification
1479.6954	1480.6949	-5	7	19	R.QNYSVEEAAVNR.L		
863.5341	864.5128	-33	20	26	R.LVNLHLR.A		
1012.6029	1013.6141	4	66	73	R.LLKLGNER.G		
1070.5291	1071.5247	-11	145	153	K.MGNHLTLNR.R		Oxidation (M)
1226.6302	1227.6261	-9	145	154	K.MGNHLTLNR.V		Oxidation (M)
2388.2074	2389.2107	-2	155	177	R.VAGPQAQTGVAGASLGEYLFER.L		





**Spot 46 (A12 20080606) – mCG11326, isoform CRA\_b [Mus musculus] (Hnrnp3) and or Heterogeneous nuclear ribonucleoprotein H3 [Mus musculus] (MCG11326, isoform CRA\_a) (Hnrnp3)**

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 52979] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 21



Spot 46 (20080606.A12) Hnrnp3 (mCG11326, isoform CRA_b)						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1270.6194	1271.6304	3	56	67	R.STGEAFVQFASK.E	Ion Score C.I.% Modification
839.4541	840.4634	2	85	90	R.YIEIFR.S	
1917.9595	1918.9692	2	191	207	R.ATENDIANFFSPLNPIR.V	
1051.5411	1052.5513	3	208	217	R.VHIDIGADGR.A	
2192.9896	2194.0142	8	218	236	R.ATGEADVEFVTHEDAVAAMSK.D	Oxidation (M)
1427.5736	1428.5853	3	273	286	R.DGMDNQGGYGSVGR.M	Oxidation (M)

Spot 46 (20080606.A12) Hnrnp3 (mCG11326, isoform CRA_a)						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1270.6194	1271.6304	3	56	67	R.STGEAFVQFASK.E	Ion Score C.I.% Modification
839.4541	840.4634	2	85	90	R.YIEIFR.S	
1917.9595	1918.9692	2	206	222	R.ATENDIANFFSPLNPIR.V	
1051.5411	1052.5513	3	223	232	R.VHIDIGADGR.A	
2192.9896	2194.0142	6	233	253	R.ATGEADVEFVTHEDAVAAMSK.D	Oxidation (M)
1427.5736	1428.5853	3	289	301	R.DGMDNQGGYGSVGR.M	Oxidation (M)



Spot 47 (20080606-B14) Tubb3									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
1069.604	1069.6357	30	310	318	YLTVATVFR				
1069.604	1069.6357	30	310	318	YLTVATVFR	34	99.945		
1130.5953	1130.6346	35	242	251	FPGQLNADLR				
1159.6292	1159.6686	34	253	262	LAVNMVPPFR			Oxidation (M)	
1159.6292	1159.6686	34	253	262	LAVNMVPPFR	8	78.035	Oxidation (M)	
1245.5933	1245.6399	37	381	390	ISEQFTAMFR			Oxidation (M)	
1245.5933	1245.6399	37	381	390	ISEQFTAMFR	3	29.736	Oxidation (M)	
1258.6902	1258.7437	43	242	252	FPGQLNADLRK				
1267.7241	1267.7717	37	252	262	KLAVNMVPPFR			Oxidation (M)	
1267.7241	1267.7717	37	252	262	KLAVNMVPPFR			Oxidation (M)	
1401.6943	1401.7499	40	381	391	ISEQFTAMFRR			Oxidation (M)	
1401.6943	1401.7499	40	380	390	RISEQFTAMFR			Oxidation (M)	
1406.6831	1406.7379	39	325	336	EVDEQMLAIQSK			Oxidation (M)	
1620.8354	1620.8877	32	263	276	LHFFMPGFAPLTAR			Oxidation (M)	
1631.8309	1631.8868	34	63	77	ALLVDLEPGTMDSVR			Oxidation (M)	
1696.8329	1696.8901	34	337	350	NSSYFVEWIPNNVK			Oxidation (M)	
1707.8622	1707.9181	33	283	297	ALTYPELTQQMFDK			Oxidation (M)	
1707.8622	1707.9181	33	283	297	ALTYPELTQQMFDK	3	38.378	Oxidation (M)	
1912.9552	1912.9902	18	47	62	ISVYNEASSHKYVPR				
1912.9552	1912.9902	18	47	62	ISVYNEASSHKYVPR	16	97.023		
1958.9817	1959.0077	13	104	121	GHYTEGAEALVDSVLDVVR				
2030.0375	2030.061	12	363	380	MSSTFIGNSTAIQELFKR	23	99.31		
2030.0375	2030.061	12	363	380	MSSTFIGNSTAIQELFKR				
2046.0325	2046.0509	9	363	380	MSSTFIGNSTAIQELFKR	30	99.876	Oxidation (M)	
2046.0325	2046.0509	9	363	380	MSSTFIGNSTAIQELFKR			Oxidation (M)	
2087.0767	2087.0896	6	104	122	GHYTEGAEALVDSVLDVVRK	20	98.633		
2087.0767	2087.0896	6	104	122	GHYTEGAEALVDSVLDVVRK				

Spot 47 (20080606-B14) Tubb3									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
1396.6623	1397.7332	46	47	58	R.ISVYNEASSHK.Y				
1911.9479	1912.9895	18	47	62	R.ISVYNEASSHKYVPR.A				
1614.8287	1615.882	28	63	77	R.AILVDLEPGTMDSVR.S				
1630.8236	1631.8865	34	63	77	R.AILVDLEPGTMDSVR.S			Oxidation (M)	
1957.9745	1959.0085	14	104	121	K.GHYTEGAEALVDSVLDVVR.K				
2086.0695	2087.0894	6	104	122	K.GHYTEGAEALVDSVLDVVRK.E				
1129.588	1130.6376	37	242	251	R.FPGQLNADLR.K				
1257.683	1258.7448	43	242	252	R.FPGQLNADLRK.L				
1286.7169	1287.7751	40	252	262	R.KLAVNMVPPFR.L			Oxidation (M)	
1142.627	1143.6765	37	253	262	K.LAVNMVPPFR.L				
1158.6219	1159.6727	38	253	262	K.LAVNMVPPFR.L			Oxidation (M)	
1619.8283	1620.8884	33	263	276	R.LHFFMPGFAPLTAR.G			Oxidation (M)	
1706.8549	1707.9186	33	283	297	R.ALTYPELTQQMFDK.N			Oxidation (M)	
1068.5968	1069.6383	32	310	318	R.YLTVATVFR.G			Oxidation (M)	
1405.6759	1406.739	40	325	336	K.EVDEQMLAIQSK.N			Oxidation (M)	
1695.8257	1696.8905	34	337	350	K.NSSYFVEWIPNNV.V				
1872.9291	1873.9821	24	363	379	K.MSSTFIGNSTAIQELFKR.R				
2029.0302	2030.0596	11	363	380	K.MSSTFIGNSTAIQELFKR.I				
2045.0252	2046.0491	8	363	380	K.MSSTFIGNSTAIQELFKR.I			Oxidation (M)	
1228.591	1229.647	40	381	390	R.ISEQFTAMFR.R				
1244.586	1245.642	39	381	390	R.ISEQFTAMFR.R			Oxidation (M)	
1400.6871	1401.7511	41	381	391	R.ISEQFTAMFRR.K			Oxidation (M)	

Spot 47 (20080606-B14) Tubb5									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
1039.5935	1039.6211	27	310	310	YLTVAAVFR	44	99.995		
1039.5935	1039.6211	27	310	310	YLTVAAVFR				
1130.5953	1130.6346	35	242	242	FPGQLNADLR				
1159.6292	1159.6686	34	253	253	LAVNMVPPFR			Oxidation (M)	
1159.6292	1159.6686	34	253	253	LAVNMVPPFR	8	78.035	Oxidation (M)	
1245.5933	1245.6399	37	381	381	ISEQFTAMFR			Oxidation (M)	
1245.5933	1245.6399	37	381	390	ISEQFTAMFR	3	29.736	Oxidation (M)	
1258.6902	1258.7437	43	242	252	FPGQLNADLRK				
1267.7241	1267.7717	37	252	262	KLAVNMVPPFR			Oxidation (M)	
1267.7241	1267.7717	37	252	262	KLAVNMVPPFR			Oxidation (M)	
1401.6943	1401.7499	40	381	391	ISEQFTAMFRR			Oxidation (M)	
1401.6943	1401.7499	40	380	390	RISEQFTAMFR			Oxidation (M)	
1620.8356	1620.8877	32	263	276	LHFFMPGFAPLTAR			Oxidation (M)	
1631.8309	1631.8868	34	63	77	ALLVDLEPGTMDSVR			Oxidation (M)	
1636.8304	1636.8895	34	263	276	LHFFMPGFAPLTAR			Oxidation (M)	
1636.8304	1636.8895	34	263	276	LHFFMPGFAPLTAR			Oxidation (M)	
1693.8951	1693.9377	26	283	297	ALTYPELTQQMFDK				
1696.8329	1696.8901	34	337	350	NSSYFVEWIPNNVK				
1958.9817	1959.0077	13	104	121	GHYTEGAEALVDSVLDVVR				
2087.0767	2087.0896	6	104	122	GHYTEGAEALVDSVLDVVRK	20	98.633		
2087.0767	2087.0896	6	104	122	GHYTEGAEALVDSVLDVVRK				

Spot 47 (20080606-B14) Tubb5									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
1815.9155	1816.9652	23	47	62	R.ISVYNEATGGKYVPR.A				
1614.8287	1615.882	28	63	77	R.AILVDLEPGTMDSVR.S				
1630.8236	1631.8865	34	63	77	R.AILVDLEPGTMDSVR.S			Oxidation (M)	
1957.9745	1959.0085	14	104	121	K.GHYTEGAELVDSVLDVVR.K				
2086.0695	2087.0894	6	104	122	K.GHYTEGAELVDSVLDVVRK.E				
1076.525	1077.5687	34	155	162	K.IREEYPDR.I				
1129.588	1130.6376	37	242	251	R.FPGQLNADLR.K				
1257.683	1258.7448	43	242	252	R.FPGQLNADLRK.L				
1286.7169	1287.7751	40	252	262	R.KLAVNMVFPFR.L			Oxidation (M)	
1142.627	1143.6765	37	253	262	K.LAVNMVFPFR.L				
1158.6219	1159.6727	38	253	262	K.LAVNMVFPFR.L			Oxidation (M)	
1619.8283	1620.8884	33	263	276	R.LHFFMPGFAPLTSR.G				
1635.8232	1636.8861	34	263	276	R.LHFFMPGFAPLTSR.G			Oxidation (M)	
1658.8879	1659.9366	25	283	297	R.ALTVPQLTQGVFDAQ.N				
1038.5952	1039.6241	30	310	318	R.YLTVAAVFR.G				
1970.8747	1971.9418	30	321	336	R.MSMKEVDEQMLNVGNK.N			3 Oxidation (M)	
1695.8257	1696.8905	34	337	350	K.NSSYFVEWIPNNVK.T				
2025.0717	2026.1169	19	363	380	K.MSATFIGNSTAIQELFKR.I				
2041.0666	2042.0702	-2	363	380	K.MSATFIGNSTAIQELFKR.I			Oxidation (M)	
1228.591	1229.647	40	381	390	R.ISEQFTAMFR.R				
1244.586	1245.642	39	381	390	R.ISEQFTAMFR.R			Oxidation (M)	
1400.6871	1401.7511	41	381	391	R.ISEQFTAMFRR.K			Oxidation (M)	

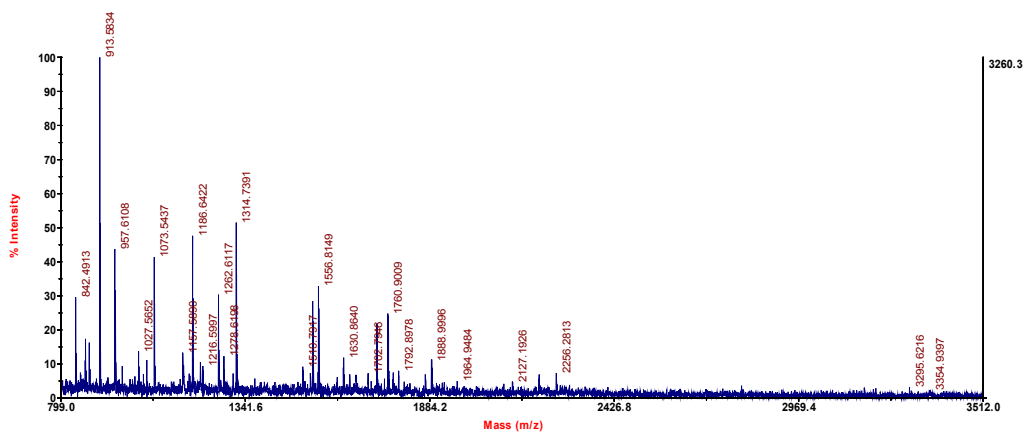
Spot 47 (20080606-B14) Tubb2b									
MS+MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
1130.5953	1130.6346	35	242	251	FPGQLNADLR				
1159.6292	1159.6686	34	253	262	LAVNMVFPFR			Oxidation (M)	
1159.6292	1159.6686	34	253	262	LAVNMVFPFR	8	78.035	Oxidation (M)	
1245.5933	1245.6399	37	381	390	ISEQFTAMFR			Oxidation (M)	
1245.5933	1245.6399	37	381	390	ISEQFTAMFR	3	29.736	Oxidation (M)	
1258.6902	1258.7437	43	242	252	FPGQLNADLRK				
1287.7241	1287.7717	37	252	262	KLAVNMVFPFR			Oxidation (M)	
1287.7241	1287.7717	37	252	262	KLAVNMVFPFR			Oxidation (M)	
1401.6843	1401.7499	40	381	391	ISEQFTAMFR			Oxidation (M)	
1401.6843	1401.7499	40	380	390	RISEQFTAMFR			Oxidation (M)	
1620.8356	1620.8877	32	263	276	LHFFMPGFAPLTSR				
1631.8309	1631.8888	34	63	77	AILVDLEPGTMDSVR			Oxidation (M)	
1636.8304	1636.8855	34	263	276	LHFFMPGFAPLTSR			Oxidation (M)	
1636.8304	1636.8855	34	263	276	LHFFMPGFAPLTSR			Oxidation (M)	
1696.8329	1696.8901	34	337	350	NSSYFVEWIPNNVK				
1707.8622	1707.9181	33	283	297	ALTVPQLTQGMFDSK				
1707.8622	1707.9181	33	283	297	ALTVPQLTQGMFDSK	3	38.378		
1958.9817	1959.0077	13	104	121	GHYTEGAELVDSVLDVVR				
2030.0375	2030.061	12	363	380	MSATFIGNSTAIQELFKR	23	99.31	Oxidation (M)	
2030.0375	2030.061	12	363	380	MSATFIGNSTAIQELFKR			Oxidation (M)	
2087.0767	2087.0896	6	104	122	GHYTEGAELVDSVLDVVRK	20	98.633		
2087.0767	2087.0896	6	104	122	GHYTEGAELVDSVLDVVRK				

Spot 47 (20080606-B14) Tubb2b									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
1614.8287	1615.882	28	63	77	R.AILVDLEPGTMDSVR.S				
1630.8236	1631.8865	34	63	77	R.AILVDLEPGTMDSVR.S			Oxidation (M)	
1957.9745	1959.0085	14	104	121	K.GHYTEGAELVDSVLDVVR.K				
2086.0695	2087.0894	6	104	122	K.GHYTEGAELVDSVLDVVRK.E				
1076.525	1077.5687	34	155	162	K.IREEYPDR.I				
1129.588	1130.6376	37	242	251	R.FPGQLNADLR.K				
1257.683	1258.7448	43	242	252	R.FPGQLNADLRK.L				
1286.7169	1287.7751	40	252	262	R.KLAVNMVFPFR.L			Oxidation (M)	
1142.627	1143.6765	37	253	262	K.LAVNMVFPFR.L				
1158.6219	1159.6727	38	253	262	K.LAVNMVFPFR.L			Oxidation (M)	
1619.8283	1620.8884	33	263	276	R.LHFFMPGFAPLTSR.G				
1635.8232	1636.8861	34	263	276	R.LHFFMPGFAPLTSR.G			Oxidation (M)	
1706.8549	1707.9186	33	283	297	R.ALTVPQLTQGMFDSK.N				
1722.8498	1723.9098	31	283	297	R.ALTVPQLTQGMFDSK.N			Oxidation (M)	
1970.8747	1971.9418	30	321	336	R.MSMKEVDEQMLNVGNK.N			3 Oxidation (M)	
1695.8257	1696.8905	34	337	350	K.NSSYFVEWIPNNVK.T				
1872.9291	1873.9821	24	363	379	K.MSATFIGNSTAIQELFKR			Oxidation (M)	
2029.0302	2030.0596	11	363	380	K.MSATFIGNSTAIQELFKR.I			Oxidation (M)	
1228.591	1229.647	40	381	390	R.ISEQFTAMFR.R				
1244.586	1245.642	39	381	390	R.ISEQFTAMFR.R			Oxidation (M)	
1400.6871	1401.7511	41	381	391	R.ISEQFTAMFRR.K			Oxidation (M)	

Spot 47 (20080606-B14) Tubb2a									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
1614.8287	1615.882	28	63	77	R.AILVDLEPGTMDSVR.S				
1630.8236	1631.8865	34	63	77	R.AILVDLEPGTMDSVR.S			Oxidation (M)	
1957.9745	1959.0085	14	104	121	K.GHYTEGAELVDSVLDVVR.K				
2086.0695	2087.0894	6	104	122	K.GHYTEGAELVDSVLDVVRK.E				
1076.525	1077.5687	34	155	162	K.IREEYPDR.I				
1129.588	1130.6376	37	242	251	R.FPGQLNADLR.K				
1257.683	1258.7448	43	242	252	R.FPGQLNADLRK.L				
1286.7169	1287.7751	40	252	262	R.KLAVNMVFPFR.L			Oxidation (M)	
1142.627	1143.6765	37	253	262	K.LAVNMVFPFR.L				
1158.6219	1159.6727	38	253	262	K.LAVNMVFPFR.L			Oxidation (M)	
1619.8283	1620.8884	33	263	276	R.LHFFMPGFAPLTSR.G				
1635.8232	1636.8861	34	263	276	R.LHFFMPGFAPLTSR.G			Oxidation (M)	
1706.8549	1707.9186	33	283	297	R.ALTVPQLTQGMFDSK.N				
1722.8498	1723.9098	31	283	297	R.ALTVPQLTQGMFDSK.N			Oxidation (M)	
1970.8747	1971.9418	30	321	336	R.MSMKEVDEQMLNVGNK.N			3 Oxidation (M)	
1695.8257	1696.8905	34	337	350	K.NSSYFVEWIPNNVK.T				
1872.9291	1873.9821	24	363	379	K.MSATFIGNSTAIQELFKR			Oxidation (M)	
2029.0302	2030.0596	11	363	380	K.MSATFIGNSTAIQELFKR.I			Oxidation (M)	
1228.591	1229.647	40	381	390	R.ISEQFTAMFR.R				
1244.586	1245.642	39	381	390	R.ISEQFTAMFR.R			Oxidation (M)	
1400.6871	1401.7511	41	381	391	R.ISEQFTAMFRR.K			Oxidation (M)	

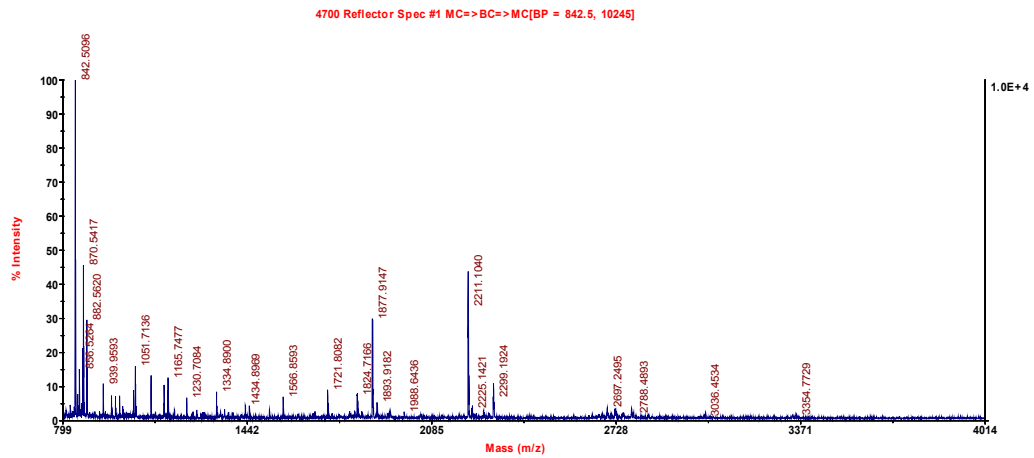
# Spot 48 (D6 20080606) - Lactate dehydrogenase B (Ldhb)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 5549] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 673



Spot 48 (20080606-D6) Ldhb								
PMF/MALDI								
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification
1665.8573	1666.8582	-4	8	23	K.LIAPVADDETAVPNNK.I			
1628.8509	1629.8608	2	44	58	K.SLADELALVDVLEDK.L			
1870.0299	1871.0557	10	44	60	K.SLADELALVDVLEDK.L.G			
2204.097	2205.1138	4	59	77	K.LKGEMMDLGHGSLFLGTPK.I			2 Oxidation (M)
1509.7675	1510.7917	11	78	91	K.IVADKDYVTANSK.I			
912.5757	913.5834	1	92	100	K.IVVVTAGV.R.Q			
1726.9326	1727.9368	-2	92	107	K.IVVVTAGV.R.QEGES.R.L			
1555.8086	1556.8149	1	101	113	R.QQEGESRLNLVQR.N			
956.6059	957.6108	-2	120	127	K.FIIPQIVK.Y			
1072.5375	1073.5437	-1	171	178	R.FRYLMAEK.L			Oxidation (M)
1761.8971	1762.9047	0	230	244	K.EVHKMVDVSAYEVK.L			Oxidation (M)
1026.5532	1027.5652	5	271	279	R.IHPVSTMV.K.G			Oxidation (M)
958.5447	959.5489	-3	300	308	R.GLTSVINGK.L			
2126.1695	2127.1926	7	300	318	R.GLTSVINGK.LKDDEVAQLR.K			
1185.6353	1186.6422	0	309	318	K.LKDDEVAQLR.K			
1313.7303	1314.7391	1	309	319	K.LKDDEVAQLR.K.S			
1175.5822	1176.5886	-1	320	329	K.SADTLWDIGK.D			
1531.7882	1532.7867	-6	320	332	K.SADTLWDIGKDLK.D			
1759.8992	1760.9009	-3	320	334	K.SADTLWDIGKDLKDL.-			

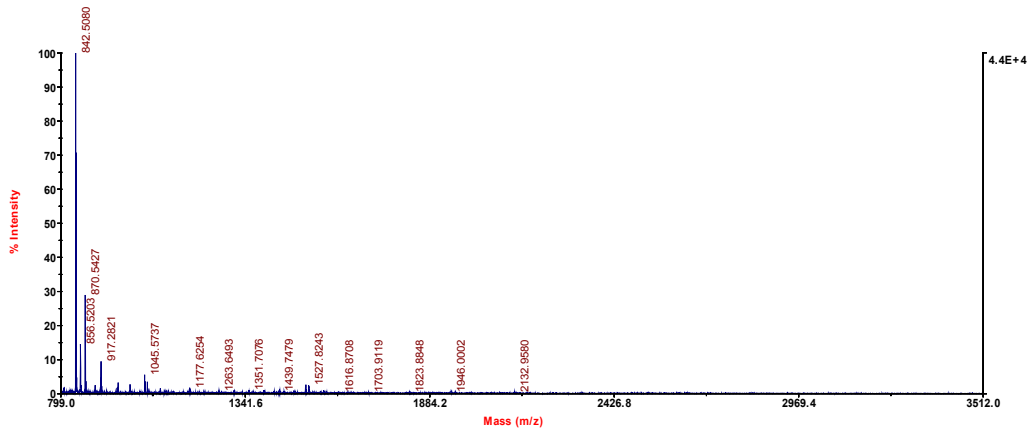
# Spot 54 (E9 20070719) – Protein DJ-1 (Park 7, Cap1)



Spot 54 (20070719-E9) Park7/Cap1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1720.8012	1721.8082	0	13	27	K.GAEEMETVIPVDIMR.R	
1876.9023	1877.9147	3	13	26	K.GAEEMETVIPVDIMRR.A	2 Oxidation (M)
2725.4267	2726.3196	-43	63	89	K.TQGPYDVVLPGGNLGAGNLSALVK.E	2 Oxidation (M)
1157.604	1158.6464	30	90	98	K.EILKEQENR.K	
1285.699	1286.7001	-5	90	99	K.EILKEQENR.K	
851.4865	852.5152	25	123	130	K.VTSHPLAK.D	
1229.6979	1230.7084	3	146	156	R.VEKDGLILTSR.G	
873.492	874.5032	4	149	156	K.DGLILTSR.G	
1892.9864	1893.9182	-41	157	175	R.GPGTSFEFALAIVEALSGK.D	
2695.3527	2696.2808	-29	157	182	R.GPGTSFEFALAIVEALSGKDMANQV.K.A	Oxidation (M)

# Spot 57 (A22 20080606) - Inner membrane protein, mitochondrial, isoform CRA\_a (Immt)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP] = 842.5, 59476) , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP] = 882.6, 21

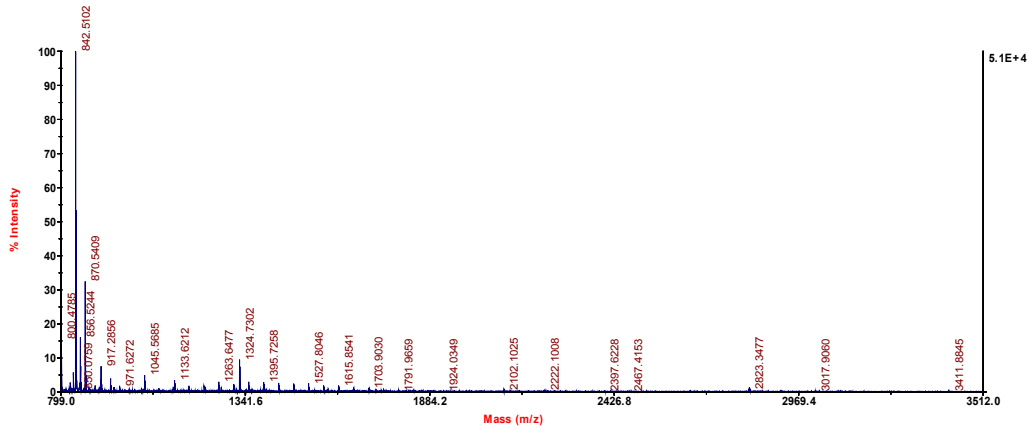


Spot 57 (20080606.A22) Immt (isoform CRA_a)						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1394.6929	1395.7205	15	73	84	R.ESVEKTIPYSDK.L	
966.5862	967.5955	-2	102	110	K.KPIQSGPLK.I	
1306.6075	1307.6754	46	196	206	K.QEQVEMESLAK.S	Oxidation (M)
1517.7685	1518.7817	4	207	220	K.SLEDALNGTATVTR.Q	
1001.5505	1002.559	1	260	268	R.TVEGALKER.R	
1526.8205	1527.8243	-2	338	350	K.VVSGYHELVQAR.D	
1570.7879	1571.833	24	356	369	K.ELDSITPDITPGWK.G	
1454.7841	1455.8057	10	391	402	R.IDQLNRELAQQK.A	
963.5138	964.5222	1	422	430	K.RAFDSAVAK.A	
807.4127	808.4177	-3	423	430	R.AFDSAVAK.A	
1442.7266	1443.8011	47	496	506	K.LSEGELEFHRR.S	
2131.948	2132.958	1	507	524	R.SQEQMDNFTLDINTAYAR.L	Oxidation (M)
1822.8809	1823.8848	-2	527	543	R.GIEQAVQSHAVAEER.K	
1944.9826	1946.0002	5	561	579	K.TSSAEMPTIPLGSAVEAIR.V	Oxidation (M)
1052.5138	1053.5222	1	603	611	R.GVYSEETLR.A	
1176.6251	1177.6254	-6	688	697	K.FVNOLKGESR.R	



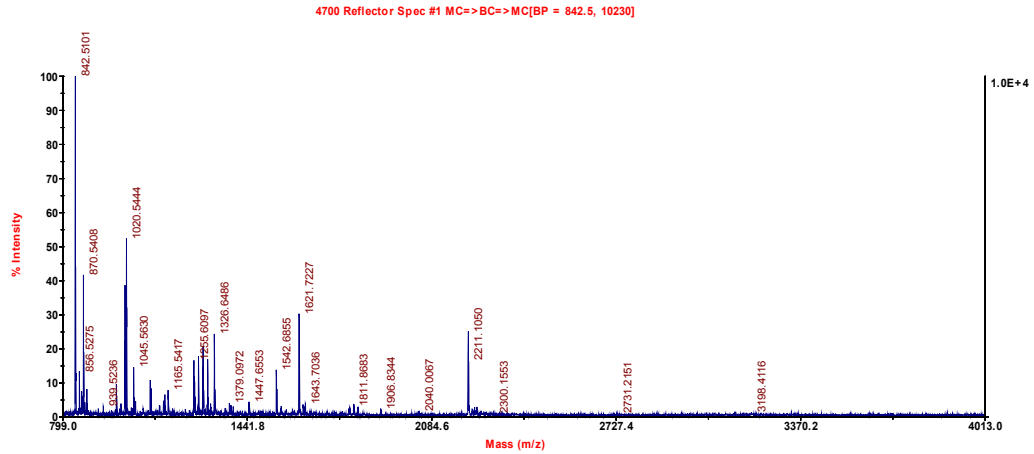
# Spot 59 (D14 20080606) - Protein phosphatase 2A, regulatory subunit B (PR 53) (Ppp2r4)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 55745] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 67



Spot 59 (20080606.D14) Ppp2r4									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
2238.1056	2239.0869	-12	7	27	R.QPPDSEETPSATPTFIIPK.K				
1269.6387	1270.6415	-4	28	38	K.KEIHVPDMGK.W			Oxidation (M)	
1141.5438	1142.5446	-6	29	38	K.EIHVPDMGK.W			Oxidation (M)	
2101.0732	2102.0969	8	42	60	R.SQAYADYIGFILTLNEGK.G				
913.4909	914.4963	-2	63	69	K.KLTFDYK.V				
1127.655	1128.6655	3	77	86	K.LVALLDLDR.W				
854.4399	855.4548	9	100	106	R.FGNKAYR.T				
832.4039	833.4106	-1	141	148	K.EAVGNSTR.I				
1132.6128	1133.6224	2	174	183	R.VDDGVAVFK.V				
1326.6754	1327.7374	41	184	193	K.VFDRYLEVMR.K				
825.4055	826.4168	5	188	193	R.YLEVMR.K			Oxidation (M)	
953.5004	954.5128	5	188	194	R.YLEVMRK.L			Oxidation (M)	
1220.6699	1221.6624	-12	267	296	K.VNQGIRMK.A				
1014.5651	1015.5662	-6	303	310	K.FPVIQHF.K.F				
1323.7187	1324.7302	3	311	323	K.FGSLPIHPVTSG.-				

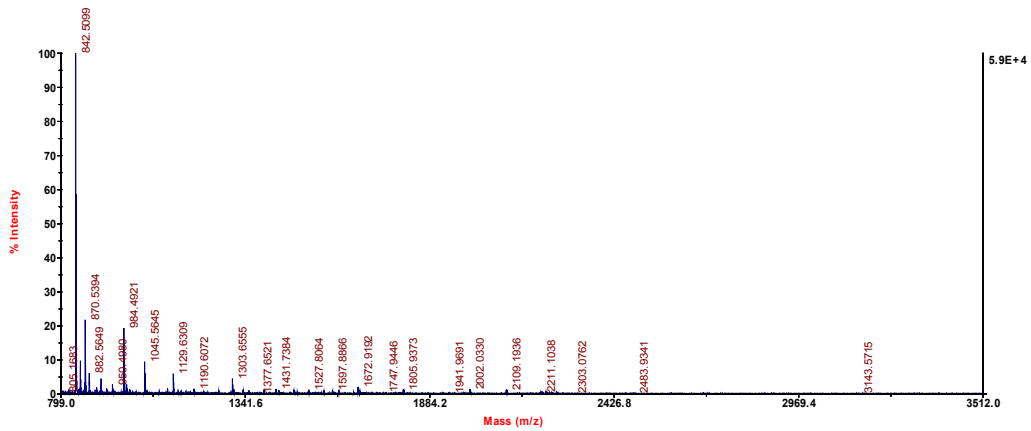
# Spot 62 (E4 20070719) – Glutathione S-transferase Mu 5 (Gstm5)



Spot 62 (20070719.E4) Gstm5						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1254.6067	1255.6097	-3	6	15	K.SMVLGYWDIR.G	
1604.728	1605.7363	1	23	35	R.MLLEFTDTSYEEK.Q	Oxidation (M)
1620.7229	1621.7227	-5	23	35	R.MLLEFTDTSYEEK.Q	
874.4549	875.4564	-7	48	54	R.SQWLDV.K.F	Oxidation (M)
1256.72	1257.7225	-4	72	82	K.NKITGSNAILR.Y	
1014.5822	1015.5909	1	74	82	K.ITGSNAILR.Y	
1634.6664	1635.7501	47	88	100	K.HNMC.GDTEEEKIR.V	Oxidation (M)
1810.8706	1811.8683	-5	99	112	K.IRVDIMENQIMDFR.M	2 Oxidation (M)
1541.6854	1542.6855	-5	101	112	R.VDIMENQIMDFR.M	2 Oxidation (M)
938.5226	939.5236	-7	141	148	K.QFSLFLGK.F	
984.4705	985.4709	-7	149	156	K.FTWFLGK.L	
1019.54	1020.5444	-3	198	206	K.IAAFLGSDR.C	
1077.5311	1078.5499	11	210	218	K.MPINNKMAK.W	2 Oxidation (M)

# Spot 63 (D8 20080815) – Leucine zipper transcription factor-like protein 1 (Lztf11)

4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 58853]

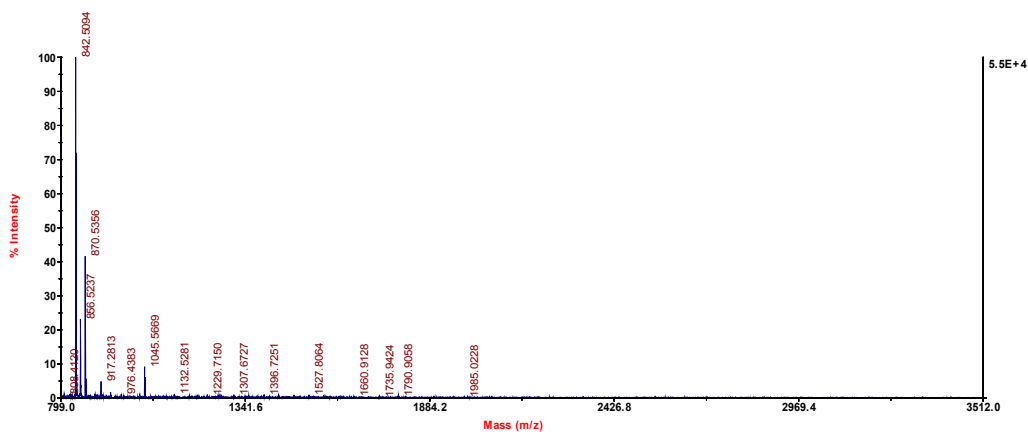


Spot 63 (20080815-D8) Lztf11									
MS+MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
950.4941	950.4993	5	86	93	QLFSQAEK				
950.4941	950.4993	5	86	93	QLFSQAEK				
954.4414	954.4524	12	292	299	LAKYESED				
984.4897	984.4936	4	265	272	FQQTAAAYR				
984.4897	984.4936	4	265	272	FQQTAAAYR	11	89.653		
992.5444	992.5486	4	273	280	NMKEILTK	0	0	Oxidation (M)	
992.5444	992.5486	4	273	280	NMKEILTK				
1001.5374	1001.5446	7	262	269	NDQIKDLR				
1045.5524	1045.5641	11	235	244	SLEENLAAAK				
1112.5847	1112.5924	7	264	272	KFQQTAAAYR				
1129.6212	1129.6324	10	157	165	LOGENEKLIK				
1129.6212	1129.6324	10	157	165	LOGENEKLIK	14	94.79		
1190.6012	1190.609	7	225	234	TLNDKTENQK				
1190.6012	1190.609	7	225	234	TLNDKTENQK				
1303.6488	1303.6569	6	98	108	LQTDVSELENR				
1303.6488	1303.6569	6	98	108	LQTDVSELENR	39	99.983		
1334.6838	1334.6913	6	109	119	ELLEQVAEFEK				
1431.7325	1431.7405	6	170	182	TIETQAVNALDEK				
1597.8795	1597.8882	5	138	152	LVPINEGGTTELLNK				
1615.8174	1615.849	20	205	219	AQDLDLENTVAALK				
1672.9116	1672.9194	5	168	182	LKTIETQAVNALDEK	18	98.015		
1672.9116	1672.9194	5	168	182	LKTIETQAVNALDEK				
1677.9363	1677.9435	4	250	263	VOEQLSMAEKELEK			Oxidation (M)	
2002.024	2002.0345	5	188	204	VLQDLQLDQGNQDFIK				
2002.024	2002.0345	5	188	204	VLQDLQLDQGNQDFIK	1	0		
2109.1914	2109.1963	2	138	156	LVPINEGGTTELLNKEILR				
2109.1914	2109.1963	2	138	156	LVPINEGGTTELLNKEILR	30	99.87		

Spot 63 (20080815-D8) Lztf11									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
1825.888	1826.844	-26	29	43	R LKTVDSFCFDLKEISR.L				
949.4869	950.498	4	86	93	R QLFSQAEK.W				
1302.6415	1303.6555	5	98	108	K LQTDVSELENR.E				
1333.6765	1334.6891	4	109	119	R ELLEQVAEFEK.A				
1596.8723	1597.8866	4	138	152	K LVPINEGGTTELLNK.E				
2109.1841	2109.1936	1	138	156	K LVPINEGGTTELLNKEILR.L				
1671.9043	1672.9192	5	168	182	R LKTIETQAVNALDEK.S				
1430.7253	1431.7384	4	170	182	K TIETQAVNALDEK.S				
2001.0167	2002.033	4	188	204	R VLQDLQLDQGNQDFIK.A				
1614.8101	1615.8475	19	205	219	K AQDLDLENTVAALK.S				
2234.1066	2235.1006	-6	205	224	K AQDLDLENTVAALKSEFGK.T				
1189.5939	1190.6072	5	225	234	K TLNDKTENQK.S				
1044.5451	1045.5645	12	235	244	K SLEENLAAAK.H				
1177.5649	1178.595	19	250	259	R VOEQLSMAEK.E			Oxidation (M)	
1676.8291	1677.8413	3	250	263	R VOEQLSMAEKELEK.K			Oxidation (M)	
1804.924	1805.9373	3	250	264	R VOEQLSMAEKELEK.F			Oxidation (M)	
1111.5774	1112.5927	7	264	272	K KFQQTAAAYR.N				
1484.7558	1485.7847	15	264	275	K KFQQTAAAYRNMK.E				
983.4825	984.4921	2	265	272	K FQQTAAAYR.N				
1941.0142	1941.9691	-27	265	280	K FQQTAAAYRNKKEILTK.K				
1957.0091	1957.9229	-48	265	280	K FQQTAAAYRNKKEILTK.K			Oxidation (M)	
991.5372	992.5472	3	273	280	R NMKEILTK.K			Oxidation (M)	
1000.5301	1001.5446	7	262	269	K NDQIKDLR.K				
1128.6251	1129.6309	-1	262	290	K NDQIKDLRK.R				
1109.5363	1110.55	7	291	299	K RLAKYESED.-				
953.4342	954.4532	12	292	299	R LAKYESED.-				

## Spot 63 (A5 20080606) - Actin, cytoplasmic 2 (Actg1)

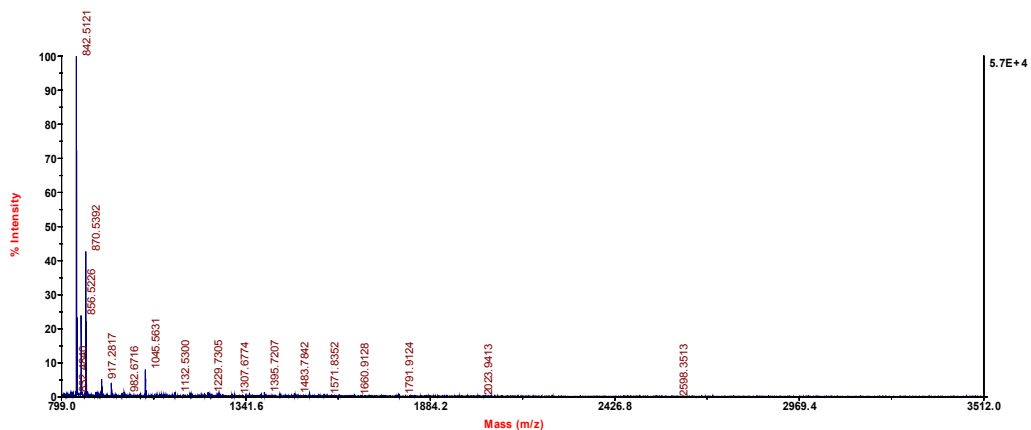
SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 70698] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 21



Spot 63 (20080606.A5) Actg1						
MS+MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	
923.5672	923.5668	0	329	336	IIAPPERK	
976.4482	976.4392	-9	19	26	AGFAGDDAPR	
976.4482	976.4392	-9	19	26	AGFAGDDAPR	26
1132.527	1132.5323	5	197	206	GYSFTTAAER	99.611
1177.6133	1177.6042	-8	316	326	EITALAPSTMK	
1203.5609	1203.5585	-2	40	50	HQGVVMVGMGQK	Oxidation (M)
1790.8918	1790.9001	5	239	254	SYELPDGQVITIGNER	2 Oxidation (M)
1790.8918	1790.9001	5	239	254	SYELPDGQVITIGNER	

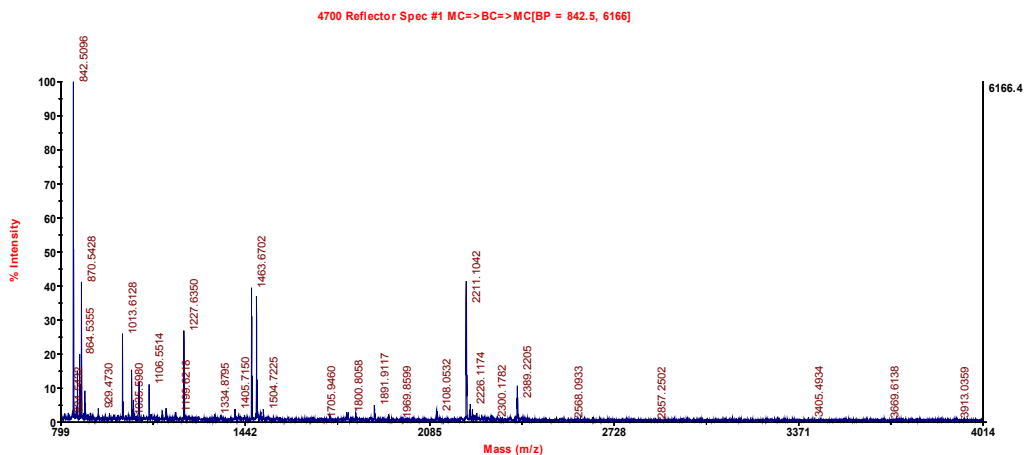
## Spot 63 (A4 20080606) - Galactokinase 1 (Galk1)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 72031] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 21



Spot 63 (20080606.A4) Galk1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1028.5502	1029.556	-1	9	17	R.VEELLAEAR R	
2022.9357	2023.9412	-1	19	37	R.AFMEEFGAEPALVAPGR.V	Oxidation (M)
1233.6816	1234.6881	-1	69	80	R.IDGLVSLTTSK.D	
1384.7449	1385.7507	-1	205	217	R.SLETSLVPLSDPK.L	
1228.7139	1229.7305	8	218	228	K.LTVLITNSNVR.H	
1258.6306	1259.632	-5	229	239	R.HSLASSEYPIR.R	
944.5039	945.512	1	288	297	R.TAQGAAALSR.G	

# Spot 64 (E12 20070719) – Ferritin light chain 1 (Ftl1)



Spot 64 (20070719-E12) Fd1						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
864.5413	864.5333	-9	19	25	LVNLHLR	
864.5413	864.5333	-9	19	25	LVNLHLR	
929.4911	929.4706	-22	68	75	LQNERGGR	
1013.6102	1013.6099	0	65	72	LLKLNQR	
1013.6102	1013.6099	0	65	72	LLKLNQR	19
1071.5364	1071.5326	-4	144	152	MGNHLTNLR	96.681
1071.5364	1071.5326	-4	144	152	MGNHLTNLR	
1199.6313	1199.6202	-9	143	152	KMGNHLTNLR	
1227.6375	1227.6312	-5	144	153	MGNHLTNLRR	
1227.6375	1227.6312	-5	144	153	MGNHLTNLRR	12
1405.7242	1405.7131	-8	92	104	TLEAMEAALALEK	92.9
1480.7026	1480.6964	-4	6	18	QNYSTEVEAAVNR	
1480.7026	1480.6964	-4	6	18	QNYSTEVEAAVNR	27
						99.77

Spot 64 (20070719-E12) Fd1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
1479.6954	1480.6982	-3	7	19	R.QNYSTEVEAAVNR.L	
863.5341	864.5355	-7	20	26	R.LVNLHLR.A	
1012.6029	1013.6128	3	66	73	R.LLKLNQR.G	
928.4839	929.473	-20	69	76	K.LQNERGGR.A	
1404.717	1405.715	-7	93	105	K.TLEAMEAALALEK.N	
1704.9271	1705.946	7	106	121	K.NLNQALLDLHALGSAR.T	
1198.6241	1199.6218	-8	144	153	K.KMGNHLTNLR.R	
1070.5291	1071.5363	0	145	153	K.MGNHLTNLR.R	
1226.6302	1227.635	-2	145	154	K.MGNHLTNLRR.V	
2388.2074	2389.2207	3	155	177	R.VAGPQPAQTGVAQASLGEYLFER.L	

## Spot 68 (P1014-11) – Diablo homolog (Drosophila) (larger C-terminal fragment) (Diablo)

Spot 68 (P1014-11) Diablo LCMS/MS (Scaffold)											
Sample Name	Acc No.	Proteins(s) inferred	No. Peptides identified	Sequence Coverage	Position in sequence	Peptide Sequence	Precursor m/z	Charge observed	Calculated mass (neutral)	Mascot score	Mascot Expect value
P1014-11	Q5RK17	tr Q5RK17 Diablo homolog (Drosophila) Tax_id=10116 [Rattus norvegicus]	6	19.00%	206 - 215	(K)LAEVQTQELR(Q)	593.70	2	1185.39	89.0	5.48E-006
					61 - 73	(K)SEPOSLSNEALMR(R)	732.14	2	1462.27	52.2	2.29E-002
					218 - 237	(K)TQEASDEAADQEEEEAYLRD(-)	767.06	3	2298.16	40.5	3.30E-001
					216 - 237	(R)QKTOEASDEAADQEEEEAYLRD(-)	852.24	3	2553.70	70.8	2.88E-004
					218 - 237	(K)TQEASDEAADQEEEEAYLRD(-)	1149.80	2	2297.58	112.0	1.62E-008
					216 - 237	(R)QKTOEASDEAADQEEEEAYLRD(-)	1277.92	2	2553.83	95.9	5.74E-007

Spot 68 [P1014-11 (75955 Rattus)] Diablo LCMS/MS											
Calculated	Observed	+/ppm	start	end	Sequence	Ion Score	C.I. %	Modification			
1237.606	413.9484		1	10	-MAALRSWMTR.S	8		Oxidation (M)			
1460.6929	732.1409		61	73	K.SEPOSLSNEALMR.R	52					
1616.794	609.3199		61	74	K.SEPOSLSNEALMRR.A	12					
850.5025	426.1824		183	189	R.NHIQLVK.S	40					
844.4403	423.1024		190	196	K.SQVQEV.R.Q	37					
1857.9908	620.0589		190	205	K.SQVQEVRLSQKAETK.L	11					
1185.6353	593.6819		206	215	K.LAEVQTQELR.Q	87					
1185.6353	593.7024		206	215	K.LAEVQTQELR.Q	89					
1185.6353	593.7544		206	215	K.LAEVQTQELR.Q	12					
1185.6353	594.6604		206	215	K.LAEVQTQELR.Q	56					
2554.0943	852.1628		216	237	R.QKTOEASDEAADQEEEEAYLRD.-	47					
2554.0943	852.2395		216	237	R.QKTOEASDEAADQEEEEAYLRD.-	71					
2554.0943	1277.9209		216	237	R.QKTOEASDEAADQEEEEAYLRD.-	96					
2297.9407	1149.7985		218	237	K.TQEASDEAADQEEEEAYLRD.-	112					
2297.9407	767.0619		218	237	K.TQEASDEAADQEEEEAYLRD.-	41					
2297.9407	1150.7819		218	237	K.TQEASDEAADQEEEEAYLRD.-	63					

**Spot 70 (P1014-14) – mixture of: Ras-related protein Rab-6A [Mus musculus] (Rab6a), Inosine triphosphatase, isoform CRA\_a (Itpa) and Ropporin-like protein (AKAP-associated sperm protein) [Mus musculus] (Ropn1)**

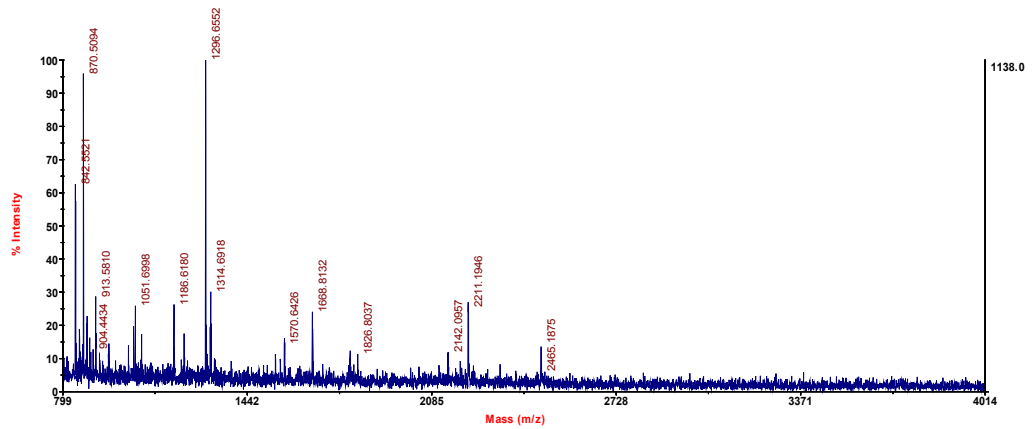
Spot 70 (P1014-14) Rab6a, Itpa & Ropn1											
LCMS/MS (Scaffold)											
Sample Name	Acc No.	Protein(s) inferred	No. Peptides identified	Sequence Coverage	Position in sequence	Peptide Sequence	Precursor m/z	Charge observed	Calculated mass (neutral)	Mascot score	Mascot Expect value
P1014-14	P35279	sp P35279 Ras-related protein Rab-6A Tax_id=10090 [Mus musculus]	4	18.30%	2 - 12	(M)sAGGDFGNPLR(K)	566.58	2	1131.15	71.9	2.88E-004
					2 - 13	(M)sAGGDFGNPLR(K)	630.70	2	1259.38	58.5	6.01E-003
					147 - 158	(K)ELNVMIETSAK(A)	691.66	2	1381.31	80.7	3.30E-005
					170 - 183	(R)VAAALPGMESTQDR(S)	723.18	2	1444.35	73.8	1.58E-004
					2 - 8	(M)aASLVGK(K)	667.26	1	686.25	51.5	2.13E-002
	ENSRNOP00000028838	ens ENSRNOP00000028838 ENSRNOP00000021233 transcript:ENSRNOT00000028838 Tax_id=10116 [Rattus norvegicus]	2	10.60%							
	Q9EQ00	sp Q9EQ00 Ropporin-1-like protein Tax_id=10090 [Mus musculus]	1	4.78%	185 - 198	(K)LQEIFYGVTDGAGDH(-)	754.72	2	1507.42	77.7	6.44E-005
					70 - 80	(K)TDTGLTGGLLK(V)	573.70	2	1145.38	44.9	1.48E-001

Spot 70 [P1014-14 (75073 Rodent)] Rab6a									
LCMS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
1236.5557	413.1712		1	12	-MSAGGDFGNPLR.K	11		Oxidation (M)	
1131.5309	566.5807		2	12	M.SAGGDFGNPLR.K	72		Acetyl (Protein N-term)	
1259.6258	630.6967		2	13	M.SAGGDFGNPLR.K.F	59		Acetyl (Protein N-term)	
1671.8693	558.4215		61	74	R.TVRLQLWDTAGGER.F	11			
1315.6521	659.6417		64	74	R.LQLWDTAGQER.F	40			
1380.6959	691.6606		147	158	K.ELNVMIETSAK.A	81			
1444.696	723.1622		170	183	R.VAAALPGMESTQDR.S	65			
1444.696	723.1602		170	183	R.VAAALPGMESTQDR.S	74			
1105.5437	553.6207		184	192	R.SREDMIDIK.L	18			

Spot 70 [P1014-14 (75073 Rodent)] Itpa									
LCMS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
1744.0247	582.5378		2	18	M.AASLVGKIKIVFTGNAK.K	16		Acetyl (Protein N-term)	
1075.639	539.1472		9	18	K.KIVFTGNAK.K	27			
1198.6492	400.5215		134	144	R.GKTPGGIVMPR.G	26		Oxidation (M)	
997.5379	499.6796		136	144	K.TPGQIVMPR.G	39			
1507.658	754.7192		185	198	K.LQEIFYGVTDGAGDH.-	78			

# Spot 72 (D23 20070719) – L-lactate dehydrogenase B chain (Ldhh)

SUB [4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 6427] , <<E16\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 70

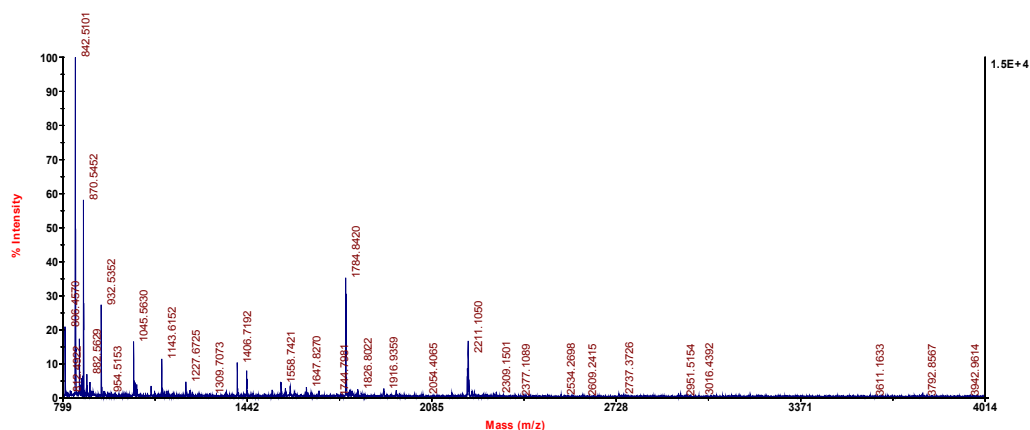


Spot 72 (20070719-D23) Ldhh						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
912.5757	913.581	-2	92	100	K.IVVVTAGVR.Q	
1555.8066	1556.8	-9	101	113	R.QQEGESRLNLVQR.N	
1072.5375	1073.5481	3	171	178	R.FRYLMAEK.L	
1026.5532	1027.5437	-16	271	279	R.IHPVSTMVK.G	Oxidation (M)
958.5447	959.5363	-16	300	308	R.GLTSVINGK.L	Oxidation (M)
1185.6353	1186.618	-21	309	318	K.LKDDEVAQLR.K	
1313.7303	1314.6918	-35	309	319	K.LKDDEVAQLR.K.S	



# Spot 74 (D14 20070719) – Alpha-enolase (Eno1)

4700 Reflector Spec #1 MC>BC>MC[BP = 842.5, 14687]

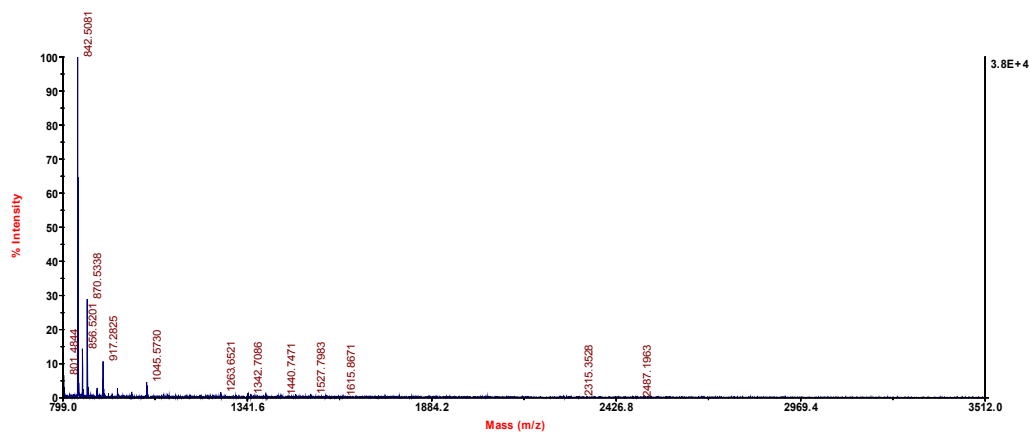


Spot 74 (20070719.D14) Eno1							
MS•MS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
806.4518	806.4557	5	406	411	YNOILR		
806.4518	806.4557	5	406	411	YNOILR		
904.4622	904.4578	-5	412	419	IEEELGSK		
932.5311	932.533	2	426	433	SFRNPLAK		
932.5311	932.533	2	426	433	SFRNPLAK		
1056.536	1056.5317	-4	253	261	AGKYDLDFK		
1118.6681	1118.6663	-2	403	411	LAKYNOILR		
1143.6156	1143.6166	1	183	192	IGAEVYHNLIK	9	87.218
1143.6156	1143.6166	1	183	192	IGAEVYHNLIK		
1406.7162	1406.723	5	15	27	GNPTVEVDLYTAK	34	99.959
1406.7162	1406.723	5	15	27	GNPTVEVDLYTAK		
1439.7417	1439.7417	0	269	280	YITPDQLADLYK		
1439.7417	1439.7417	0	269	280	YITPDQLADLYK	1	9.09
1528.6914	1528.6963	3	256	268	YDLDFKSPDDASR		
1646.8319	1646.8208	-7	179	192	EAMRIGAEVYHNLIK		Oxidation (M)
1652.7506	1652.7976	28	89	102	IDQLMIEMDGTENK		Oxidation (M) [5]
1691.8962	1691.9104	8	406	419	YNOILRIEEELGSK		
1784.845	1784.8458	0	253	268	AGKYDLDFKSPDDASR		
1784.845	1784.8458	0	253	268	AGKYDLDFKSPDDASR	20	98.802
1804.9438	1804.966	23	32	49	AAVPSGASTGIYEALERL		
1960.9246	1960.9298	3	202	220	DATNVGDEGGFAPNILENK		
2154.0713	2154.0672	7	9	27	EIFDSRGNPTVEVDLYTAK		
2208.0278	2208.0452	8	233	252	AGYTDQVIGMDVAASEFYR		Oxidation (M)
2208.0278	2208.0452	8	233	252	AGYTDQVIGMDVAASEFYR		Oxidation (M)
2309.1042	2309.1619	26	199	220	YGKDATNVGDEGGFAPNILENK		
2736.343	2736.3887	20	80	102	KLNVVEQEIKDQLMIEMDGTENK		2 Oxidation (M)

Spot 74 (20070719.D14) Eno1							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
2153.0641	2154.0771	3	10	26	R EIFDSRGNPTVEVDLYTAK.G		
1405.7089	1406.7192	2	16	26	R GNPTVEVDLYTAK.G		
1803.9366	1804.9744	17	33	50	R.AAVPSGASTGIYEALERL.D		
1180.6564	1181.6691	5	61	71	K.GVSKAVEHINK.T		
909.4395	910.4442	-3	65	71	K.AVEHINK.T		
898.5486	899.5757	-22	72	80	K.TIAPALYSK.K		
1026.6437	1027.6345	-16	72	81	K.TIAPALYSK.K.L		
1651.7433	1652.7947	-27	90	103	K.IDQLMIEMDGTENK.S		Oxidation (M)
1645.8246	1646.816	-10	180	193	R.EAMRIGAEVYHNLIK.N		Oxidation (M)
1142.6084	1143.6152	0	184	193	R.IGAEVYHNLIK.N		
2308.0971	2309.1601	20	200	221	K.YGKDATNVGDEGGFAPNILENK.E		
1959.9174	1960.9214	-2	203	221	K.DATNVGDEGGFAPNILENK.E		
2191.0256	2192.0403	3	234	253	K.AGYTDQVIGMDVAASEFYR.A		
2207.0205	2208.0347	3	234	253	K.AGYTDQVIGMDVAASEFYR.A		Oxidation (M)
1055.5287	1056.53	-6	254	262	R.AGKYDLDFK.S		
1527.6841	1528.6925	1	257	269	K.YDLDFKSPDDASR.Y		
1438.7344	1439.7386	-2	270	281	R.YITPDQLADLYK.S		
2624.2495	2625.2419	-6	336	358	K.SCNCLLLKYNQIGSVTESLOACK.L		
1117.6607	1118.6647	-3	404	412	R.LAKYNOILR.I		
805.4446	806.4569	6	407	412	K.YNOILR.I		
1690.8889	1691.9058	6	407	420	K.YNOILRIEEELGSK.A		
903.4549	904.4594	-3	413	420	R.IEEELGSK.A		
931.5239	932.5352	4	427	434	R.SFRNPLAK.-		

# Spot 83 (B8 20080606) - Nuclear autoantigenic sperm protein (Nasp)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 53859] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 21



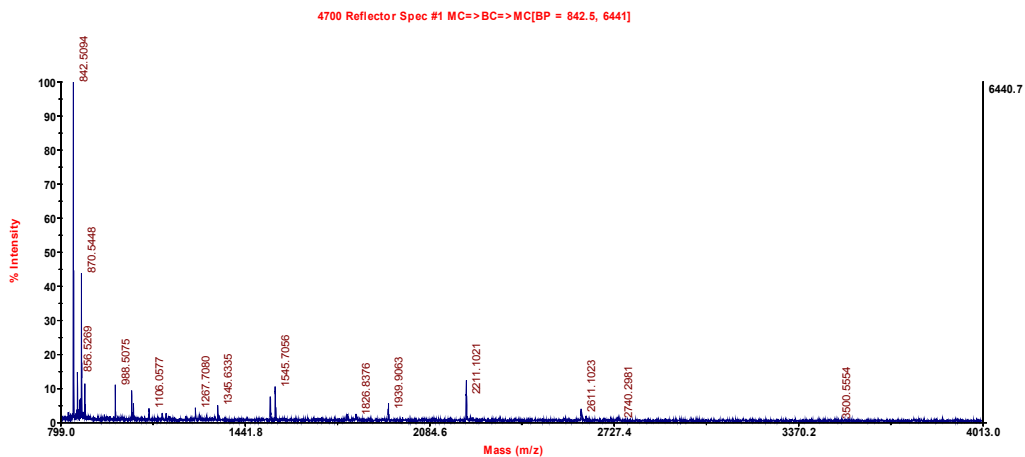
Spot 83 (20080606-B8) Nasp						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
801.4828	801.4844	2	94	100	S L L E L A R	20
801.4828	801.4844	2	94	100	S L L E L A R	98.009
856.5614	856.5255	-42	45	52	K L L G L G Q K	
856.5614	856.5255	-42	45	52	K L L G L G Q K	
959.5519	959.5547	3	598	605	S I D V I E K R	17
959.5519	959.5547	3	598	605	S I D V I E K R	95.926
1001.5625	1001.5657	3	650	659	S G N V A E L A L K	
1001.5625	1001.5657	3	650	659	S G N V A E L A L K	
1094.584	1094.5774	-6	242	251	S I S G V Y V G N K	
1094.584	1094.5774	-6	242	251	S I S G V Y V G N K	
1342.7114	1342.7064	-4	524	535	E A Q L Y A A G A H L K	
1342.7114	1342.7064	-4	524	535	E A Q L Y A A G A H L K	
1351.641	1351.688	35	34	45	M E S L D V D S E A K K	
1351.641	1351.688	35	34	45	M E S L D V D S E A K K	
2487.2031	2487.2202	7	660	685	A T L V E S S T S G F T P S G A G A S V S M I A S R	Oxidation (M)

Spot 83 (20080606-B8) Nasp						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
1350.6337	1351.6888	35	34	45	K M E S L D V D S E A K K L	
855.5542	856.5201	-48	45	52	K L L G L G Q K H	
800.4756	801.4844	2	94	100	K S L L E L A R M	
1262.6506	1263.6521	-5	435	445	R A T E K A P E D K F K I	
1341.7041	1342.7086	-2	524	535	K E A Q L Y A A G A H L K L	
958.5447	959.5576	6	598	605	K S I D V I E K R M	
1093.5511	1094.5697	10	606	614	R M A V L L E Q M K E	2 Oxidation (M)
831.4338	832.4793	46	639	645	R E K I E D A K E	
1000.5553	1001.5581	-4	650	659	R S G N V A E L A L K A	
2486.1959	2487.1963	-3	660	685	K A T L V E S S T S G F T P S G A G A S V S M I A S R K	Oxidation (M)

## Spot 86 (P1014-01) – Actin, cytoplasmic 2 (Actg1)

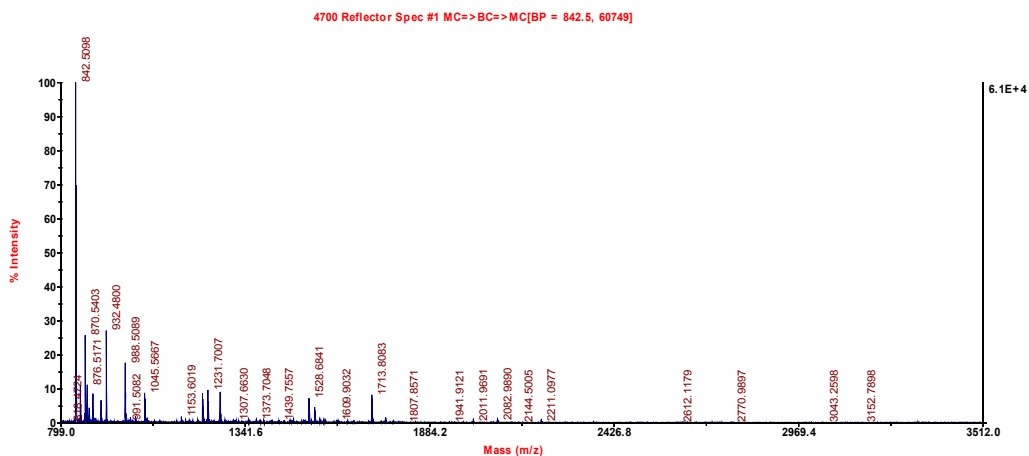
Spot 86 [P1014-01 (75058 Rodent)] Actg1								
LCMS/MS								
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification
2851.264	951.1815		2	28	M.EEEIAALVIDNGSGMCKAGFAGDDAPR.A	60		Acetyl (Protein N-term); Oxidation (M)
975.441	488.1391		19	28	K.AGFAGDDAPR.A	48		
1197.6982	599.6592		29	39	R.AVFPSIVGRPR.H	25		
1789.8846	895.7362		239	254	K.SYELPDGGVITIGNER.F	91		
1789.8846	896.2407		239	254	K.SYELPDGGVITIGNER.F	44		
1547.8051	517.3168		313	326	R.MQKEITALAPSTMK.I	26		

## Spot 87 (E10 20070719) – Ferritin heavy chain (Fth1)



Spot 87 (20070719-E10) Fth1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1544.6967	1545.7056	1	11	23	R.QNYHODSEAAINR.Q	
1344.6211	1345.6335	4	55	64	K.YFLHQSHEER.E	
1938.8972	1939.9062	1	55	69	K.YFLHQSHEEREHAEK.L	
875.5116	876.5132	-6	81	87	R.IFLQDIK.K	
1266.6932	1267.708	6	110	120	K.SVNSLLELHK.L	
1260.6837	1261.6801	-9	148	158	K.ELGDHYTNLRK.M	
2610.1003	2611.1023	-2	159	182	K.MGAPESGMAEYLFDKHTLGHGDES.-	2 Oxidation (M)

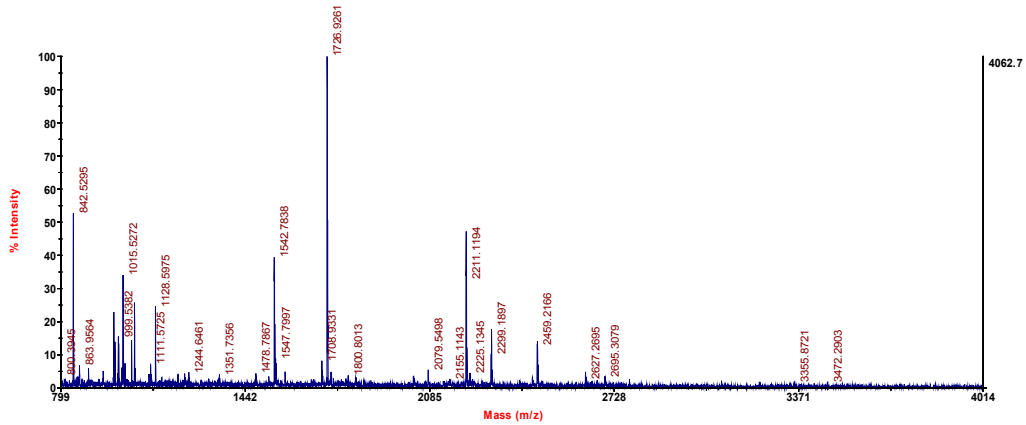
## Spot 87 (D20 20080815) - Ferritin heavy chain (Fth1)



Spot 87 (20080815-D20) Fth1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1544.6967	1545.7065	2	11	23	R.QNYHODSEAAINR.Q	
1639.8464	1640.809	-27	65	77	R.EHAEKLMKLNQR.G	Oxidation (M)
927.4998	928.5146	8	73	80	K.LQNGRGR.I	
1641.9315	1642.8972	-25	78	91	R.GGRIFLQDIKKPDR.D	
875.5116	876.5171	-2	81	87	R.IFLQDIK.K	
1266.6932	1267.7045	3	110	120	K.SVNSLLELHK.L	
1480.7998	1481.8113	3	145	157	K.SIKELGDHYTNLR.K	
1608.8947	1609.9032	1	145	158	K.SIKELGDHYTNLRK.M	
1152.5887	1153.6019	5	148	157	K.ELGDHYTNLR.K	
1260.6837	1261.6912	0	148	158	K.ELGDHYTNLRK.M	
1676.7062	1677.7246	7	159	173	K.MGAPESGMAEYLFDK.H	2 Oxidation (M)
2610.1003	2611.0979	-4	159	182	K.MGAPESGMAEYLFDKHTLGHGDES.-	2 Oxidation (M)

# Spot 91 (E8 20070719) – Proteasome subunit beta type 4 precursor (Psmb4)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 9681] , <<E15\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 88

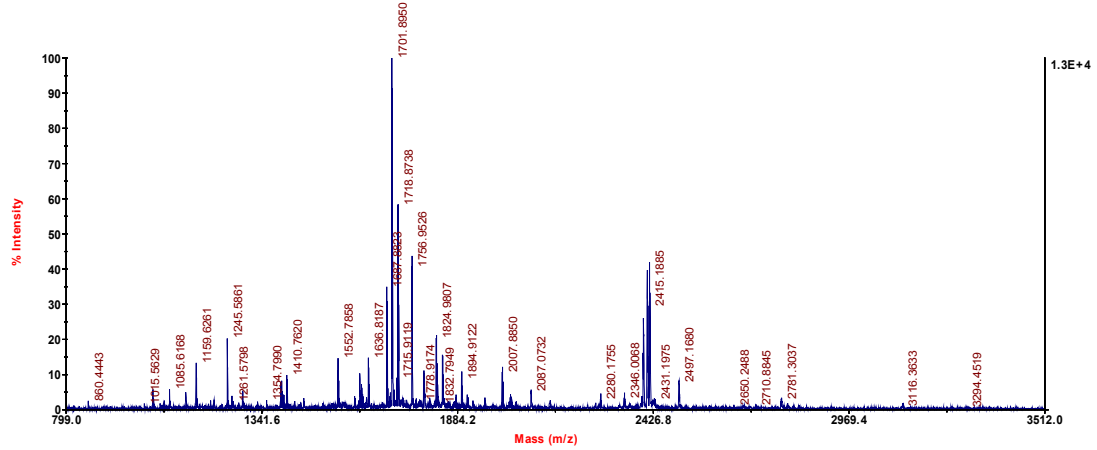


Spot 91 (20070719-E8) Psmb4							
MS•MS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
983.5421	983.5433	1	131	138	AIHSWLTR		
983.5421	983.5433	1	131	138	AIHSWLTR		
1022.5516	1022.5544	3	231	239	FQVATVTEK		
1055.5632	1055.5597	-3	219	226	VLYYRDAR		
1055.5632	1055.5597	-3	219	226	VLYYRDAR		
1128.6008	1128.594	-6	201	210	QPVLSQTEAR		
1128.6008	1128.594	-6	201	210	QPVLSQTEAR		
1542.791	1542.7778	-9	227	239	SYNRFQVATVTEK		
1542.791	1542.7778	-9	227	239	SYNRFQVATVTEK		
1547.8097	1547.797	-8	45	59	TQNPMTGTSLGVK		Oxidation (M)
1726.9333	1726.9211	-7	196	210	EVLEKQPVLSQTEAR		
1726.9333	1726.9211	-7	196	210	EVLEKQPVLSQTEAR	23	99.414
2627.2117	2627.2341	9	86	108	IMRVNDSTMLGASGDYADFQYLK		2 Oxidation (M)

Spot 91 (20070719-E8) Psmb4							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1546.8025	1547.7997	-7	46	60	R.TQNPMTGTSLGVK.F		Oxidation (M)
2626.2043	2627.2695	22	87	109	R.IMRVNDSTMLGASGDYADFQYLK.Q		2 Oxidation (M)
2458.1798	2459.2166	12	110	131	K.QVLGQMVDELLGDGHSYSPRA		Oxidation (M)
982.5348	983.5345	-8	132	139	R.AIHSWLTR.A		
1725.9261	1726.9261	-4	197	211	R.EVLEKQPVLSQTEAR.E		
1127.5935	1128.5975	-3	202	211	K.QPVLSQTEAR.E		
1054.556	1055.5599	-3	220	227	R.VLYYRDAR.S		
1541.7838	1542.7838	-5	228	240	R.SYNRFQVATVTEK.G		
1021.5444	1022.554	2	232	240	R.FQVATVTEK.G		

**Spot 93 (D9 20080606) - mixture of: Tubulin, alpha 1C (Tuba1c), Tubulin alpha-1A chain (Tuba1a), Tubulin alpha-3 chain (Tuba3), Tubulin beta-2C chain (Tubb2c), Tubulin beta-3 chain (Tubb3) and Tubulin beta-2A chain (Tubb2a)**

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 1701.9, 12739] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 6



Spot 93 (20080606-D9) Tuba1c									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
2006.8858	2007.895	-4	41	60	K.TIGGGDDSFNTFFSETGAGK.H				
2496.167	2497.168	-3	41	64	K.TIGGGDDSFNTFFSETGAGKHVPR.A				
1700.8985	1701.895	-6	65	79	R.AVFVDLEPTVIDEVR.T				
2279.1798	2280.1755	-5	65	84	R.AVFVDLEPTVIDEVRTGTYR.Q				
1409.7667	1410.762	-9	85	96	R.QLFHPEQLITGK.E				
2414.1978	2415.1895	-7	85	105	R.QLFHPEQLITGKEDAANNYAR.G				
1841.0047	1841.9949	-9	106	121	R.GHYTIGKEIDLVLDR.I				
1084.6128	1085.6168	-3	113	121	K.EIDLVLDR.I				
1353.798	1354.799	-5	113	123	K.EIDLVLDRIR.K				
1873.9758	1874.9489	-18	215	229	R.RNLDIERPTYNLNR.L				
1717.8747	1718.8738	-5	216	229	R.NLDIERPTYNLNR.L				
2408.2012	2409.199	-4	244	264	R.FDGNLVDLTFQTNLVPYPR.I				
1755.9559	1756.9526	-6	265	280	R.IHFPATYAPVISAEK.A				
2760.2785	2761.3037	6	281	304	K.AYHEQLTVAEITNACFEPANQMVK.C			Oxidation (M)	
3293.4791	3294.4519	-10	281	308	K.AYHEQLTVAEITNACFEPANQMVKCDPR.H				
1609.9039	1610.8794	-20	321	336	R.GDVVPKDVNAAIATIK.T				
1014.5709	1015.5629	-15	327	336	K.DVNAAIATIK.T				
1754.845	1755.8573	3	339	352	K.RTIQFVWVCPGTFK.V				
1851.9843	1852.9762	-8	353	370	K.VGINYQPPTVPPGDLAR.V				
1395.6857	1396.6849	-6	391	401	R.LDHKFDLMYAKR			Oxidation (M)	
1058.5219	1059.5314	2	395	402	K.FDLMYAKR.A			Oxidation (M)	
2501.107	2502.1455	12	402	422	K.RAFVHWYVYVGEEMEEGFSEAR.E			Oxidation (M)	
2329.011	2330.0056	-5	403	422	R.AFVHWYVYVGEEMEEGFSEAR.E				
2345.0059	2346.0068	-3	403	422	R.AFVHWYVYVGEEMEEGFSEAR.E			Oxidation (M)	

Spot 93 (20080606-D9) Tuba1a									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
2006.8858	2007.895	-4	41	60	K.TIGGGDDSFNTFFSETGAGK.H				
2496.167	2497.168	-3	41	64	K.TIGGGDDSFNTFFSETGAGKHVPR.A				
1700.8985	1701.895	-6	65	79	R.AVFVDLEPTVIDEVR.T				
2279.1798	2280.1755	-5	65	84	R.AVFVDLEPTVIDEVRTGTYR.Q				
1409.7667	1410.762	-9	85	96	R.QLFHPEQLITGK.E				
2414.1978	2415.1895	-7	85	105	R.QLFHPEQLITGKEDAANNYAR.G				
1841.0047	1841.9949	-9	106	121	R.GHYTIGKEIDLVLDR.I				
1084.6128	1085.6168	-3	113	121	K.EIDLVLDR.I				
1353.798	1354.799	-5	113	123	K.EIDLVLDRIR.K				
1873.9758	1874.9489	-18	215	229	R.RNLDIERPTYNLNR.L				
1717.8747	1718.8738	-5	216	229	R.NLDIERPTYNLNR.L				
1456.8613	1457.8611	-5	230	243	R.LIGIVSSITASLR.F				
2408.2012	2409.199	-4	244	264	R.FDGNLVDLTFQTNLVPYPR.I				
1755.9559	1756.9526	-6	265	280	R.IHFPATYAPVISAEK.A				
1609.9039	1610.8794	-20	321	336	R.GDVVPKDVNAAIATIK.T				
1014.5709	1015.5629	-15	327	336	K.DVNAAIATIK.T				
1754.845	1755.8573	3	339	352	K.RTIQFVWVCPGTFK.V				
1823.9782	1824.9807	-3	353	370	K.VGINYQPPTVPPGDLAK.V				
1395.6857	1396.6849	-6	391	401	R.LDHKFDLMYAKR			Oxidation (M)	
1058.5219	1059.5314	2	395	402	K.FDLMYAKR.A			Oxidation (M)	
2501.107	2502.1455	12	402	422	K.RAFVHWYVYVGEEMEEGFSEAR.E			Oxidation (M)	
2329.011	2330.0056	-5	403	422	R.AFVHWYVYVGEEMEEGFSEAR.E				
2345.0059	2346.0068	-3	403	422	R.AFVHWYVYVGEEMEEGFSEAR.E			Oxidation (M)	

Spot 93 (20080606-D9) Tuba3							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
2006.8858	2007.885	-4	41	60	K.TIGGGDDSFNTFFSETGAGK.H		
2496.167	2497.168	-3	41	64	K.TIGGGDDSFNTFFSETGAGKHVPR.A		
1686.8829	1687.8823	-5	65	79	R.AVFVDLEPTVYDEV.R.T		
1409.7667	1410.762	-9	85	96	R.QLFHPEQLITGK.E		
2414.1978	2415.1885	-7	85	105	R.QLFHPEQLITGKEDAANNYR.G		
1826.989	1827.9832	-7	106	121	R.GHYTGKEIDLVLDR.I		
1070.5972	1071.5952	-9	113	121	K.EVDLVLDR.I		
1873.9758	1874.9489	-18	215	229	R.RNLDIERPTYNLNR.L		
1717.8747	1718.8738	-5	216	229	R.NLDIERPTYNLNR.L		
1456.8613	1457.8611	-5	230	243	R.LIGIVSSITASLR.F		
2408.2012	2409.199	-4	244	264	R.FDGLNVDLTFQTNLVPYPR.I		
1755.9559	1756.9526	-6	265	280	R.IHFPLATYAPVISAEK.A		
1609.9039	1610.8794	-20	321	336	R.GDVVPKDVNAAIATIK.T		
1014.5709	1015.5629	-15	327	336	K.DVNAAIATIK.T		
1754.945	1755.9573	3	339	352	K.RTQFVDFWCPTGFK.V		
1823.9782	1824.9807	-3	353	370	K.VGINYQPTVYPPGGDLAK.V		
1395.6857	1396.6849	-6	391	401	R.LDHKFDLMYAK.R		Oxidation (M)
1058.5219	1059.5314	2	395	402	K.FDLMYAKR.A		Oxidation (M)
2501.107	2502.1455	12	402	422	K.RAFVHWYYGEGMEEGEFSEAR.E		Oxidation (M)
2329.011	2330.0056	-5	403	422	R.AFVHWYYGEGMEEGEFSEAR.E		
2345.0059	2346.0068	-3	403	422	R.AFVHWYYGEGMEEGEFSEAR.E		Oxidation (M)

Spot 93 (20080606-D9) Tubb2c							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
3115.4159	3116.3633	-19	20	46	K.FWEVISDEHIDPTGYHGDSDLQLER.I		
1327.6408	1328.6257	-17	47	58	R.INVYINEATGGK.Y		
1616.808	1617.7889	-16	63	77	R.AVLVDLEPGTMDSVR.S		Oxidation (M)
2797.3361	2798.3181	-9	78	103	R.SGPFQGFPRDNFVFGSGAGNNWAK.G		
1957.9745	1958.9595	-12	104	121	K.GHYTEGAELVDSVLDVVR.K		
2086.0695	2087.0732	-2	104	122	K.GHYTEGAELVDSVLDVVRK.E		
1076.525	1077.5459	13	155	162	K.IREEYPDR.I		
1129.588	1130.5935	-2	242	251	R.FPGQLNADLR.K		
1257.683	1258.6805	-8	242	252	R.FPGQLNADLR.L		
1286.7169	1287.7161	-6	252	262	R.KLAVNMVPPFR.L		Oxidation (M)
1158.6219	1159.6261	-3	253	262	K.LAVNMVPPFR.L		Oxidation (M)
1619.8283	1620.8158	-12	263	276	R.LHFFMPGFAPLTSR.G		
1635.8232	1636.8187	-7	263	276	R.LHFFMPGFAPLTSR.G		Oxidation (M)
1706.8549	1707.8583	-2	283	297	R.ALTVPQLTQMFDK.N		Oxidation (M)
1038.5962	1039.5879	-5	310	318	R.YLTVAVFR.G		
1695.8257	1696.8379	3	337	350	K.NSSYFVEWIPNNVK.T		
1856.9342	1857.9418	0	363	379	K.MSATFIGNSTAIGELFK.R		
1872.9291	1873.9199	-9	363	379	K.MSATFIGNSTAIGELFK.R		Oxidation (M)
2029.0302	2030.0256	-6	363	380	K.MSATFIGNSTAIGELFKR.I		Oxidation (M)
1244.586	1245.5861	-6	381	390	R.ISEQFTAMFR.R		Oxidation (M)
1400.6871	1401.6891	-4	381	391	R.ISEQFTAMFR.R.K		Oxidation (M)

Spot 93 (20080606-D9) Tubb3							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1911.9479	1912.9189	-19	47	62	R.ISVYINEASSHKYVPR.A		
1630.8236	1631.8127	-11	63	77	R.AILVDLEPGTMDSVR.S		Oxidation (M)
2794.3364	2795.3408	-1	78	103	R.SGAFGLFRPDNFVFGSGAGNNWAK.G		
1957.9745	1958.9595	-12	104	121	K.GHYTEGAELVDSVLDVVR.K		
2086.0695	2087.0732	-2	104	122	K.GHYTEGAELVDSVLDVVRK.E		
1129.588	1130.5935	-2	242	251	R.FPGQLNADLR.K		
1257.683	1258.6805	-8	242	252	R.FPGQLNADLR.L		
1286.7169	1287.7161	-6	252	262	R.KLAVNMVPPFR.L		Oxidation (M)
1158.6219	1159.6261	-3	253	262	K.LAVNMVPPFR.L		Oxidation (M)
1619.8283	1620.8158	-12	263	276	R.LHFFMPGFAPLTSR.G		Oxidation (M)
1706.8549	1707.8583	-2	283	297	R.ALTVPQLTQMFDK.N		Oxidation (M)
1068.5968	1069.5999	-4	310	318	R.YLTVATVFR.G		
1882.8838	1883.9065	8	321	336	R.MSMKEVDEQMLAIQSK.N		Oxidation (M)
1695.8257	1696.8379	3	337	350	K.NSSYFVEWIPNNVK.V		
1872.9291	1873.9199	-9	363	379	K.MSATFIGNSTAIGELFK.R		
2029.0302	2030.0256	-6	363	380	K.MSATFIGNSTAIGELFKR.I		
2045.0252	2046.0283	-2	363	380	K.MSATFIGNSTAIGELFKR.I		Oxidation (M)
1244.586	1245.5861	-6	381	390	R.ISEQFTAMFR.R		Oxidation (M)
1400.6871	1401.6891	-4	381	391	R.ISEQFTAMFR.R.K		Oxidation (M)

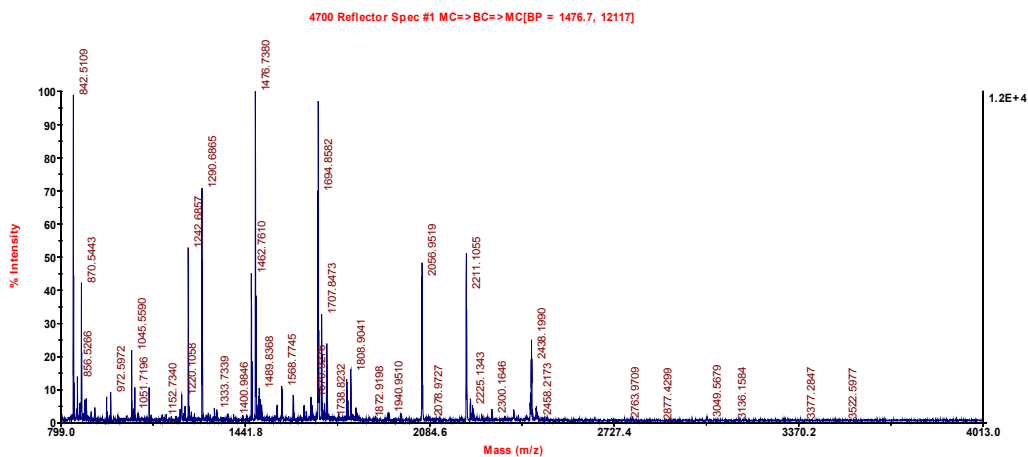
Spot 93 (20080606-D9) Tubb2a							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1630.8236	1631.8127	-11	63	77	R.AILVDLEPGTMDSVR.S		Oxidation (M)
2797.3361	2798.3181	-9	78	103	R.SGPFQGFPRDNFVFGSGAGNNWAK.G		
1957.9745	1958.9595	-12	104	121	K.GHYTEGAELVDSVLDVVR.K		
2086.0695	2087.0732	-2	104	122	K.GHYTEGAELVDSVLDVVRK.E		
1076.525	1077.5459	13	155	162	K.IREEYPDR.I		
1129.588	1130.5935	-2	242	251	R.FPGQLNADLR.K		
1257.683	1258.6805	-8	242	252	R.FPGQLNADLR.L		
1286.7169	1287.7161	-6	252	262	R.KLAVNMVPPFR.L		Oxidation (M)
1158.6219	1159.6261	-3	253	262	K.LAVNMVPPFR.L		Oxidation (M)
1619.8283	1620.8158	-12	263	276	R.LHFFMPGFAPLTSR.G		
1635.8232	1636.8187	-7	263	276	R.LHFFMPGFAPLTSR.G		Oxidation (M)
1706.8549	1707.8583	-2	283	297	R.ALTVPQLTQMFDK.N		
1722.8498	1723.875	10	283	297	R.ALTVPQLTQMFDK.N		Oxidation (M)
1695.8257	1696.8379	3	337	350	K.NSSYFVEWIPNNVK.T		
1856.9342	1857.9418	0	363	379	K.MSATFIGNSTAIGELFK.R		
1872.9291	1873.9199	-9	363	379	K.MSATFIGNSTAIGELFK.R		Oxidation (M)
2029.0302	2030.0256	-6	363	380	K.MSATFIGNSTAIGELFKR.I		Oxidation (M)
1244.586	1245.5861	-6	381	390	R.ISEQFTAMFR.R		Oxidation (M)
1400.6871	1401.6891	-4	381	391	R.ISEQFTAMFR.R.K		Oxidation (M)

## Spot 95 (P1014-12) – Acrosin-binding protein (Acrbp)

Spot 95 (P1014-12) Acrbp											
LCMS/MS (Scaffold)											
Sample Name	Acc No.	Protein(s) inferred	No. Peptides identified	Sequence Coverage	Position in sequence	Peptide Sequence	Precursor m/z	Charge observed	Calculated mass (neutral)	Mascot score	Mascot Expect value
P1014-12	G6AY33	sp G6AY33 Acrosin-binding protein Tax_id=10116 [Rattus norvegicus]	1	3.80%	259 - 270	(K)SLSSNPSFFTPR(V)	670.24	2	1338.47	43.1	1.90E-001



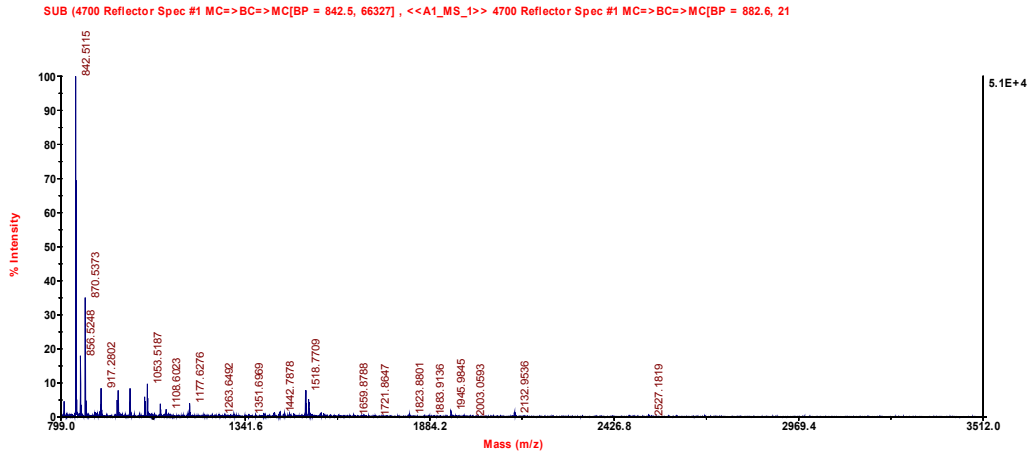
# Spot 96 (D4 20070719) – Stress-70 protein, mitochondrial precursor (Hspa9)



Spot 96 (20070719.D4) Hspa9						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
887.5131	887.5158	3	100	107	LVGMPAKR	
917.4437	917.4446	1	647	653	LFEMAYK	Oxidation (M)
958.4952	958.5029	8	77	85	VLENAGAR	Oxidation (M)
972.5988	972.5967	-2	139	146	NVPFKIVR	
1045.5387	1045.5582	19	647	654	LFEMAYKK	Oxidation (M)
1056.6312	1056.6384	7	265	292	HVKFKFR	
1231.6641	1231.671	6	635	646	QAASSLQQASLK	
1242.6801	1242.6831	2	207	218	DAGQISGLNVLR	
1242.6801	1242.6831	2	207	218	DAGQISGLNVLR	17
1290.6801	1290.6836	3	395	405	VQQTVDLDFGR	28
1290.6801	1290.6836	3	395	405	VQQTVDLDFGR	
1380.6501	1380.6456	-3	564	574	NAEKYAEEDRR	
1462.757	1462.7568	0	378	391	SDIGEVLVGGMTR	
1462.757	1462.7568	0	378	391	SDIGEVLVGGMTR	19
1476.7329	1476.7334	0	86	99	TTPSVVAFTPDGER	35
1476.7329	1476.7334	0	86	99	TTPSVVAFTPDGER	
1489.8373	1489.8339	-2	349	361	AQFEGIVDLIKR	
1493.723	1493.7272	3	127	138	RYDDPEVQKDK	
1568.7704	1568.7692	-1	108	121	QAVTNPNTFYATK	
1569.8345	1569.7725	-39	160	173	LYSPSIGAFVLMK	
1608.7687	1608.769	0	174	187	MKETAENYLGHTAK	Oxidation (M)
1645.8795	1645.8723	-4	219	234	VINEPTAAALAYGLDK	Oxidation (M)
1670.9183	1670.9193	1	203	218	QATK-DAGQISGLNVLR	
1694.8496	1694.8511	1	188	202	NAVITVPAYFNSQR	
1694.8496	1694.8511	1	188	202	NAVITVPAYFNSQR	50
1706.8378	1706.8391	1	293	307	ETGVDLTKDNMALQR	12
1706.8378	1706.8391	1	293	307	ETGVDLTKDNMALQR	91.491
1709.8717	1709.8374	-20	144	159	IVRASNGDAWVEAHGK	
1724.8715	1724.871	0	108	122	QAVTNPNTFYATKR	18
1724.8715	1724.871	0	108	122	QAVTNPNTFYATKR	
1808.9025	1808.8973	-3	469	485	SQVFSTAADGGTGVEIK	37
1808.9025	1808.8973	-3	469	485	SQVFSTAADGGTGVEIK	99.973
2055.9617	2055.9548	-3	266	284	STNGDTFLGGEDFDQALLR	
2233.1055	2233.0835	-10	626	646	DSETGENIRQAASSLQQASLK	
2434.2129	2434.2131	0	542	563	EQQIMQSSGLSKDDIENMVK	Oxidation (M)

Spot 96 (20070719-04) Hspa9											
PMF/MALDI											
Calculated	Observed	+/-ppm	start	end	Sequence		Ion Score	C.I.%	Modification		
2078.0024	2078.9724	-18	53	73	K.GAVVGIDLGTNSCVAVMEGK.Q						
2421.188	2422.1863	-4	53	76	K.GAVVGIDLGTNSCVAVMEGKQAK.V				Oxidation (M)		
957.4879	958.5032	8	77	85	K.VLENAEGAR.T						
1475.7256	1476.7379	3	86	99	R.TTPSVVAFTPDGER.L						
2188.1198	2189.1072	-9	86	106	R.TTPSVVAFTPDGERLVGMPAK.R				Oxidation (M)		
886.5058	887.5168	4	100	107	R.LVGMPAKR.Q				Oxidation (M)		
1567.7631	1568.7745	3	108	121	R.QAVTNPNTFYATK.R						
1723.8642	1724.879	4	108	122	R.QAVTNPNTFYATK.R.L						
971.5916	972.5971	-2	139	146	K.NVPFKIVR.A						
1708.8645	1709.8452	-16	144	159	K.IVRASNGDAWVEAHGK.L						
1340.6109	1341.6771	44	147	159	R.ASNGDAWVEAHGK.L						
1568.8272	1569.7787	-36	160	173	K.LYSPSQIGAFVLMK.M				Oxidation (M)		
1811.9678	1812.8894	-47	160	175	K.LYSPSQIGAFVLMK.M.E						
1607.7613	1608.7739	3	174	187	K.MKETAENYLGHAK.N				Oxidation (M)		
1693.8424	1694.858	5	188	202	K.NAVITVPAYFNDISQR.Q						
1669.9111	1670.9275	5	203	218	R.QATKDAQGISGLNVL.R.V						
1241.6728	1242.6857	5	207	218	K.DAGQISGLNVL.R.V						
1644.8723	1645.8791	0	219	234	R.VINEPTAAALAYGLDK.S						
2104.0688	2105.0999	11	219	238	R.VINEPTAAALAYGLDKSEDK.V						
2054.9545	2055.9653	2	266	284	K.STNGDTFLGGEDFDQALLR.H						
899.5229	900.5278	-3	285	291	R.HVKEFK.R						
1689.8366	1690.8364	-4	293	307	R.ETGVDLTKDNMALQR.V						
1705.8305	1706.8453	4	293	307	R.ETGVDLTKDNMALQR.V				Oxidation (M)		
862.3967	863.4466	49	301	307	K.DNMLQR.V				Oxidation (M)		
1027.5597	1028.569	2	341	348	K.HLNMKLR.A				Oxidation (M)		
1332.7289	1333.7339	-2	349	360	R.AQFEGIVTDLIK.R						
1488.83	1489.8367	0	349	361	R.AQFEGIVTDLIK.R.T						
1445.7548	1446.7496	-9	378	391	K.SDIGEVILVGGMTR.M						
1461.7497	1462.7609	3	378	391	K.SDIGEVILVGGMTR.M				Oxidation (M)		
1269.6728	1290.6865	5	395	405	K.VQGTVDLFGRA.A						
1672.8897	1673.9004	2	395	409	K.VQGTVDLFGRAPSK.A						
1807.8952	1808.9041	1	469	485	K.SQVFSTAADGQVEIK.V						
2433.2057	2434.2251	5	542	563	R.EGQVIGSSGSLKDDIENMVK.N				Oxidation (M)		
1871.8935	1872.9198	10	579	595	R.VEAVNMAEGIIHDTETK.M				Oxidation (M)		
903.496	904.5001	-3	618	624	K.MRELLAR.K				Oxidation (M)		
2232.0982	2233.0935	-5	626	646	K.DSETGENIRQAASSLQQASLK.L						
1230.6568	1231.6729	7	635	646	R.QAASSLQQASLK.L						
916.4364	917.4445	1	647	653	K.LFEMAYK.K				Oxidation (M)		
1044.5314	1045.559	19	647	654	K.LFEMAYKK.M				Oxidation (M)		

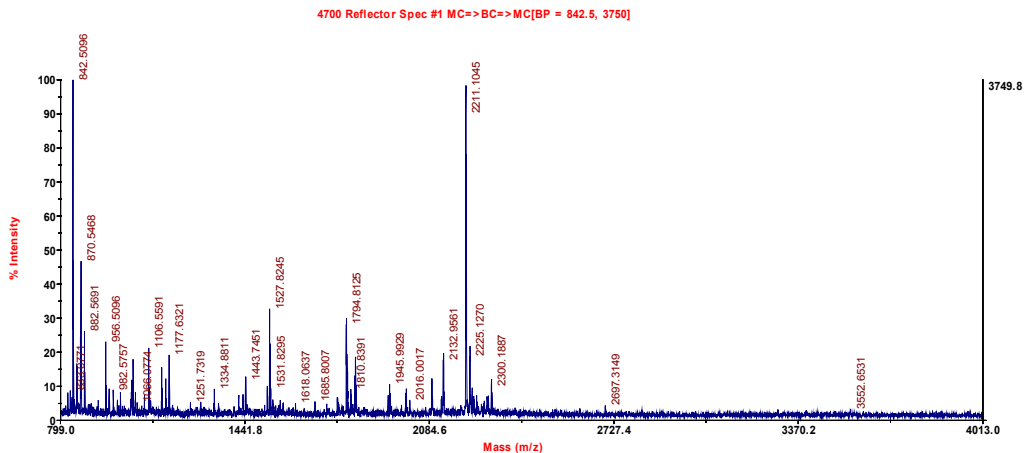
### Spot 103 (A23 20080606) - Inner membrane protein, mitochondrial, isoform CRA\_a (Immt)



Spot 103 (20080606-A23) Immt (isoform CRA\_a)

PMF/MALDI	Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification
	1394.6929	1395.7115	8	73	84	R.ESVEKTIPYSDK.L			
	966.6862	967.5923	-1	102	110	K.KPIQSGPLK.I			
	1306.6075	1307.6732	45	196	206	K.QEQVEMESLAK.S			Oxidation (M)
	1517.7695	1518.7709	-3	207	220	K.SLEDALNQTATVTR.Q			
	1441.7889	1442.7878	-6	221	234	R.QTITAQNAAVQAVK.A			
	1001.5505	1002.5576	0	260	268	R.TVEGALKER.R			
	1114.587	1115.587	-6	271	281	K.AVDEAADALLK.A			
	905.4528	906.4358	-27	284	290	K.EELEKMK.T			
	1562.7828	1563.7844	-4	300	314	R.EIAGATPYITAAEEK.L			
	1454.7803	1455.7823	-4	315	327	K.LHSMIVLDSVVK.K			
	1470.7752	1471.776	-4	315	327	K.LHSMIVLDSVVK.K			Oxidation (M)
	1058.572	1059.5907	11	328	337	K.KVQAAGSEAK.V			
	1526.8205	1527.8156	-8	338	350	K.VVSGYHELTVQAR.D			
	1570.7879	1571.8253	19	356	369	K.ELDSITPDITPGWK.G			
	913.5093	914.5098	-7	390	396	R.RIDQLNR.E			
	1536.826	1537.8278	-4	403	415	K.ATEKQHIELALER.Q			
	1107.6036	1108.6023	-6	407	415	K.QHIELALER.Q			
	963.5138	964.5188	-2	422	430	K.RAFDSAVAK.A			
	807.4127	808.4213	2	423	430	R.AFDSAVAK.A			
	2131.948	2132.9536	-1	507	524	R.SOEGQMDNFTLDINTAYAR.L			Oxidation (M)
	1822.8909	1823.8901	-4	527	543	R.QEQAQVQSHAVAEFEAR.K			
	1944.9826	1945.9845	-1	561	579	K.TSSAEMPTPLSSAVEAIR.V			Oxidation (M)
	1052.5138	1053.5187	-2	603	611	R.GVYSEETLR.A			
	2002.0411	2003.0593	5	652	668	K.QLKPPAELYPEDINTFKL			
	1176.6251	1177.6276	-4	688	697	K.FVNQLKGESR.R			

### Spot 103 (D2 20070719) – Inner membrane protein, mitochondrial, isoform CRA\_a (Immt)

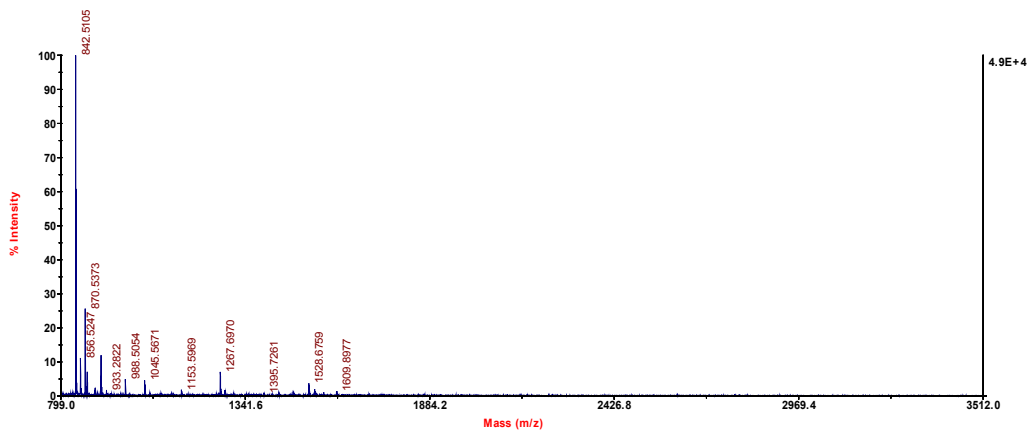


## Spot 103 (20070719-D2) Immt (isoform CRA\_a)

PMF/MALDI								
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification
846.3773	847.3831	-2	67	72	K.WDSHFR.E			
1418.6579	1419.6589	-4	67	77	K.WDSHFRESVEK.T			
1517.7685	1518.7789	2	207	220	K.SLEDALNGTATVTR.Q			
1441.7889	1442.7845	-8	221	234	R.QTTAQNAAVQAVK.A			
1562.7828	1563.792	1	300	314	R.EIAGATPYITAAEEK.L			
1526.8205	1527.8245	-2	338	350	K.VVSGYHELIVQAR.D			
1536.826	1537.8195	-9	403	415	K.ATEKQHIELALER.Q			
1107.6036	1108.6051	-5	407	415	K.QHIELALER.Q			
1573.8325	1574.8322	-5	465	478	R.QAAAHTDHLRDVLK.V			
2125.0215	2126.03	1	479	495	K.VQEGELKFEFEGDLSEK.L			
1266.6255	1267.6522	15	496	505	K.LSEGELFHR.R			
1442.7266	1443.7451	8	496	506	K.LSEGELFHRR.S			
2272.0542	2273.0337	-12	506	524	R.RSQEQMDNFTLDINTAYAR.L			
2131.948	2132.9561	0	507	524	R.SQEQMDNFTLDINTAYAR.L			Oxidation (M)
2092.0661	2093.075	1	525	543	R.LRGEGAVQSHAVAEFEAR.K			
1822.8809	1823.8853	-2	527	543	R.GEGAVQSHAVAEFEAR.K			
1944.9826	1945.9929	2	561	579	K.TSSAEMPTIPLSSAVEAIR.V			Oxidation (M)
1052.6138	1053.6045	-16	603	611	R.GVYSEETLR.A			
981.5396	982.5757	29	612	619	R.ARFYAVQK.L			
2002.0411	2003.0355	-6	652	668	K.QLKPPAELYPEDINTFKL			
1176.6251	1177.6321	0	688	697	K.FVNQLKGESR.R			

# Spot 104 (A18 20080606) - Ferritin heavy chain (Fth1)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 64371] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 21

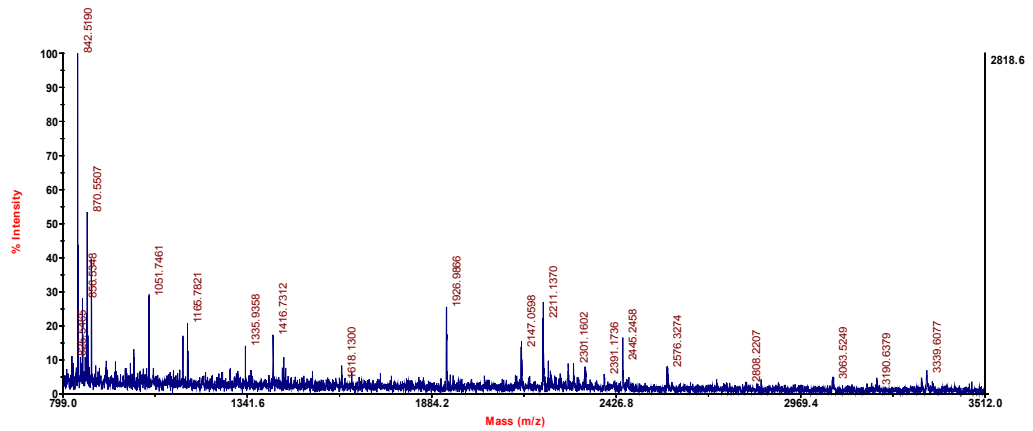


Spot 104 (20080606-A18) Fth1						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
876.5189	876.5205	2	81	87	IFLQDIK	
876.5189	876.5205	2	81	87	IFLQDIK	7
1153.5959	1153.5964	0	148	157	ELGDHVTNLR	
1153.5959	1153.5964	0	148	157	ELGDHVTNLR	
1267.7004	1267.6987	-1	110	120	SVNQSLLELHK	50
1267.7004	1267.6987	-1	110	120	SVNQSLLELHK	99.999
1281.6909	1281.689	-1	148	158	ELGDHVTNLRK	
1345.6284	1345.6732	33	55	64	YFLHQSHEER	
1481.807	1481.8069	0	145	157	SIKELGDHVTNLR	
1545.7041	1545.6989	-3	11	23	QNYHQDSEAAINR	46
1545.7041	1545.6989	-3	11	23	QNYHQDSEAAINR	99.997

Spot 104 (20080606-A18) Fth1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
945.488	946.4875	-8	2	10	M.TTASPSQVR.Q	
1544.6967	1545.702	-1	11	23	R.QNYHQDSEAAINR.Q	
1344.6211	1345.6412	10	55	64	K.YFLHQSHEER.E	
875.5116	876.52	1	81	87	R.IFLQDIK.K	
1266.6932	1267.697	-3	110	120	K.SVNQSLLELHK.L	
1480.7998	1481.808	1	145	157	K.SIKELGDHVTNLR.K	
1608.8947	1609.8977	-3	145	158	K.SIKELGDHVTNLRK.M	
1152.6887	1153.5969	1	148	157	K.ELGDHVTNLR.K	
1280.6837	1281.6816	-7	148	158	K.ELGDHVTNLRK.M	

# Spot 106 (C2 20080606) - Isopentenyl-diphosphate Delta-isomerase 1 (Idi1)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 6955] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 673



Spot 106 (20080606-C2) Idi1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
2146.0286	2147.0598	11	13	30	K QVLLAEMCILIDENDNK.I	Ion Score
1415.7085	1416.7312	11	53	64	R AFSVFLFNTENK.L	C.I.% Modification
2334.1413	2335.1655	7	114	133	K AELGIPLEEVDLNEMNYLTR.I	Oxidation (M)
2261.1117	2262.1028	-7	138	156	K AQSDGIWGEHEIDYILFLR.K	

## Spot 108 (P1014-18) – mixture of: Protein arginine N-methyltransferase 5 [Mus musculus] (Prmt5), Heat shock-related 70 kDa protein 2 (Hspa2) and Serum albumin (Alb)

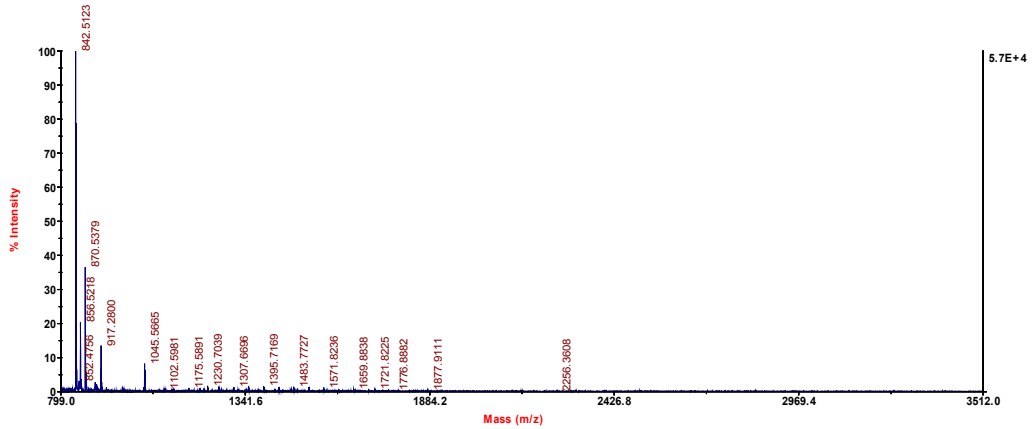
Spot 108 (P1014-18) Prmt5, Hspa2 & Alb											
LCMS/MS (Scaffold)											
Sample Name	Acc No.	Protein(s) inferred	No. Peptides identified	Sequence Coverage	Position in sequence	Peptide Sequence	Precursor m/z	Charge observed	Calculated mass (neutral)	Mascot score	Mascot Expect value
P1014-18	Q8CIG8	sp Q8CIG8 Protein arginine N-methyltransferase 5 Tax_Id=10090 [Mus musculus]	3	3.61%	2 - 13	(M)aAmAVGGAGGSR(V)	531.62	2	1061.22	90.3	4.35E-006
					632 - 637	(R)SYTIGL(-)	653.14	1	652.13	40.5	1.66E-001
					2 - 18	(M)aAmAVGGAGGSRVSSGR(D)	766.74	2	1531.46	48.1	5.74E-002
					613 - 633	(K)LYGGPGGGSSGGPTIEVD(-)	967.14	2	1932.27	93.8	1.29E-006
	P14659	sp P14659 Heat shock-related 70 kDa protein 2 Tax_Id=10116 [Rattus norvegicus]	1	3.32%							
		ens ENSRNOP0000003921 ENSRNOP0000003911 [Rattus norvegicus]	3	4.61%	550 - 558	(K)QTALAELVK(H)	486.68	2	971.34	62.0	2.94E-003
		transcript:ENSRNOT0000003921 Tax_Id=10116 [Rattus norvegicus]			549 - 558	(K)KQTALAELVK(H)	550.72	2	1099.43	52.6	2.45E-002
					435 - 452	(R)YTQKAPQVSTPTLVEAAR(N)	653.86	3	1958.56	55.1	1.23E-02

Spot 108 [P1014-18 (75972 Rattus)] Hspa2										
LCMS/MS										
Calculated	Observed	+/- ppm	start	end	Sequence	Ion Score	C.I. %	Modification		
1932.9152	966.9369		79	94	K.FEDATVQSDMKHWPFRR.V	6				
1786.9826	597.0064		173	189	R.IINEPTAAAIAYGLDKK.G	10				
1345.6812	449.4429		240	250	R.MVSHLAEFPKR.K	30				
1152.5597	577.3184		521	529	R.MVQEAERYK.S	11				
1932.8701	967.1394		613	633	K.LYGGPGGGSSGGPTIEVD.-	81				
1932.8701	967.1399		613	633	K.LYGGPGGGSSGGPTIEVD.-	94				

Spot 108 [P1014-18 (75972 Rattus)] Alb										
LCMS/MS										
Calculated	Observed	+/- ppm	start	end	Sequence	Ion Score	C.I. %	Modification		
1526.5501	509.6814		76	88	K.TCVADENAENCDK.S	11				
698.4439	699.279		213	219	K.ALVAAYR.Q	15				
1327.5795	443.2209		220	229	R.QRMKCSSMQR.F	10		Oxidation (M)		
1507.8048	503.8409		230	242	R.FGERAFKAWAVAR.M	19				
1018.5712	510.9404		234	242	R.AFKAWAVAR.M	31				
530.3064	532.858		282	286	R.AELAK.Y	6				
1959.0425	653.8612		435	452	R.YTQKAPQVSTPTLVEAAR.N	55				
1959.0425	654.8194		435	452	R.YTQKAPQVSTPTLVEAAR.N	24				
1099.6601	550.7199		549	558	K.KQTALAELVK.H	53				
971.5651	486.6784		550	558	K.QTALAELVK.H	62				
1293.7041	432.1369		559	569	K.HKPKATEDQLK.T	10				
1948.8949	650.4379		585	602	K.AADKDNCFATEGPNLVAR.S	44				
1948.8949	975.7209		585	602	K.AADKDNCFATEGPNLVAR.S	34				

# Spot 110 (A9 20080606) - Protein DJ-1 (Park7, Cap1)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 71852] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 21



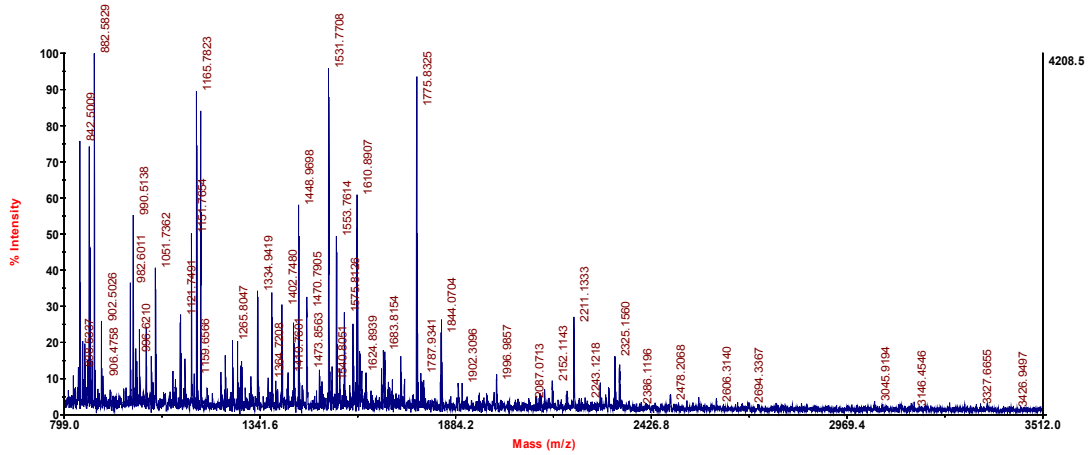
Spot 110 (20080606.A9) Park7, Cap1						
MS+MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
852.4937	852.4921	-2	123	130	VTSHPPLAK	
874.4992	874.5054	7	149	156	DGLILTSR	0
874.4992	874.5054	7	149	156	DGLILTSR	
1230.7052	1230.7064	1	146	156	VEKDGLILTSR	
1230.7052	1230.7064	1	146	156	VEKDGLILTSR	18
1721.8085	1721.822	8	13	27	GAEEMETVIPVDIMR	97.931
1877.9095	1877.8989	-6	13	28	GAEEMETVIPVDIMRR	

Spot 110 (20080606.A9) Park7, Cap1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
1720.8012	1721.8225	8	13	27	K.GAEEMETVIPVDIMR.R	
1876.9023	1877.9111	1	13	28	K.GAEEMETVIPVDIMRR.A	
1286.699	1286.7192	10	90	99	K.EILKEQENRK.G	
802.3933	803.4377	46	94	99	K.EQENRK.G	
851.4865	852.4756	-21	123	130	K.VTSHPPLAK.D	
1229.6979	1230.7039	-1	146	156	R.VEKDGLILTSR.G	
873.492	874.5	1	149	156	K.DGLILTSR.G	



**Spot 113 (C17 20080606) - Aldehyde dehydrogenase, mitochondrial precursor (Aldh2) and/or ATP synthase subunit alpha, mitochondrial precursor (Chain A, Rat Liver F1-ATPase) (Atp5a1)**

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 9713] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 673



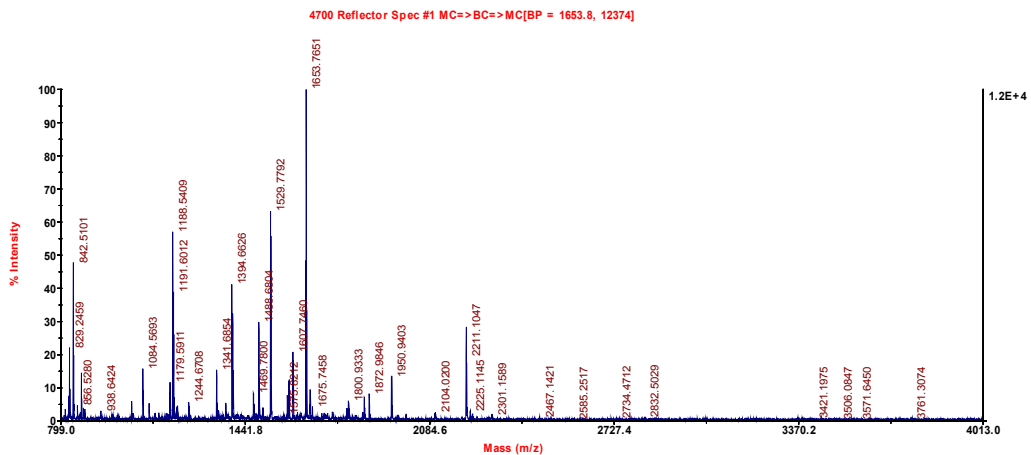
Spot 113 (20080606-C17) Aldh2							
MS•MS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
902.4941	902.498	4	431	438	TIEEVVGR		
990.5002	990.5061	6	349	357	VVGNPFDSR		
1177.6575	1177.6609	3	429	438	FKTIEEVVGR		
1177.6575	1177.6609	3	429	438	FKTIEEVVGR		
1402.7227	1402.722	0	84	96	AAQAAFQLGSPWR		
1470.7627	1470.7615	-1	397	409	GYFIQPTVFGDVK		
1531.7428	1531.7408	-1	162	174	TIPIDGFFSYTR		
1531.7428	1531.7408	-1	162	174	TIPIDGFFSYTR	25	99.824
1599.79	1599.7871	-2	495	508	ELGEYGLQAYTEVK		
1775.8123	1775.7914	-12	327	340	TFVGEDVYDEFVER	32	99.963
1775.8123	1775.7914	-12	327	340	TFVGEDVYDEFVER		
1844.0527	1844.0297	-12	212	228	VAEQTPLTALYVANLIK		
1844.0527	1844.0297	-12	212	228	VAEQTPLTALYVANLIK		
2152.1028	2152.0618	-19	410	428	DGMTIAKEEIFGPVMQILK		2 Oxidation (M)

Spot 113 (20080606-C17) Aldh2							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1699.9158	1700.8511	-42	81	96	K.AVKAQAQAAFQLGSPWR.R		
1401.7153	1402.748	18	84	96	K.AAQAQAAFQLGSPWR.R		
1373.803	1374.7617	-35	106	116	R.LLYRLADLIER.D		
1099.5985	1100.6288	21	110	118	R.LADLIERDR.T		
1457.6728	1458.7109	21	150	161	R.YYAGWADKYHGK.T		
1530.7355	1531.7708	18	162	174	K.TIPIDGFFSYTR.H		
1368.7799	1369.7545	-24	198	211	K.LGPLATGNVVMKV		
1364.7748	1365.8029	15	198	211	K.LGPLATGNVVMKV		Oxidation (M)
1843.0455	1844.0704	10	212	228	K.VAEQTPLTALYVANLIK.E		
1774.805	1775.8325	11	327	340	R.TFVGEDVYDEFVER.S		
1232.6262	1233.6631	24	347	357	K.SRVVGNPFDSR.T		
989.4931	990.5138	14	349	357	R.VVGNPFDSR.T		
2477.1823	2478.2068	7	349	370	R.VVGNPFDSRTEQGPQVDETQFK.K		
1505.6398	1506.7349	18	358	370	R.TEQGPQVDETQFK.K		
1633.7948	1634.8286	16	358	371	R.TEQGPQVDETQFK.I		
1469.7555	1470.7905	19	397	409	R.GYFIQPTVFGDVK.D		
2151.0856	2152.1143	5	410	428	K.DGMTIAKEEIFGPVMQILK.F		2 Oxidation (M)
1418.7479	1419.7601	3	417	428	K.EEIFGPVMQILK.F		Oxidation (M)
1176.6503	1177.6763	16	429	438	K.FKTIEEVVGR.A		
901.4869	902.5026	9	431	438	K.TIEEVVGR.A		
1415.7368	1416.6957	-41	431	443	K.TIEEVVGRANNSK.Y		
1039.5702	1040.6001	22	444	453	K.YGLAAAVFTK.D		
2190.0263	2191.0471	6	489	508	K.MSGSGRELQAYTEVK.T		Oxidation (M)
1598.7828	1599.8193	18	495	508	R.ELGEYGLQAYTEVK.T		

Spot 113 (20080606-C17) Atp5a1									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
1026.5942	1026.5966	4	195	204	AVDSLVPVIGR				
1120.7201	1120.7275	7	172	182	VGLKAPGIIPR				
1374.741	1374.7386	-2	183	194	ISVREPMQTGIK			Oxidation (M)	
1548.8679	1548.9358	44	317	329	QAVAYRQMSLLLR				
1553.7383	1553.7302	-5	335	347	EAYPGDVFYLHSR				
1562.9125	1562.9498	24	74	88	VLSIGDGIARVHGLR				
1575.786	1575.7811	-3	59	73	ILGADTSVDLEETGR				
1610.8748	1610.8588	-10	134	149	TGAIVDVPVGDPELLGR				
1610.8748	1610.8588	-10	134	149	TGAIVDVPVGDPELLGR				
1683.7894	1683.7787	-6	89	103	NVQAEEMVEFSSGLK			Oxidation (M)	
2325.1543	2325.0901	-28	473	493	QGQYSPMAIEEQVAVIYAGVR			Oxidation (M)	
2338.1672	2338.0771	-39	442	463	EVAFAFGSDLDAAATQQLLSR				

Spot 113 (20080606-C17) Atp5a1									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
1791.9036	1792.8829	-16	43	58	R.LGKTGTAEMSSILEER.I				
1574.7788	1575.8126	17	59	73	R.ILGADTSVDLEETGR.V				
999.5713	1000.5901	12	74	83	R.VLSIGDGIAR.V				
1682.7821	1683.8154	15	89	103	R.NVQAEEMVEFSSGLK.G			Oxidation (M)	
1609.8676	1610.8907	10	134	149	R.TGAIVDVPVGDPELLGR.V				
1119.7128	1120.7435	21	172	182	R.VGLKAPGIIPR.I				
1373.7337	1374.7617	15	183	194	R.ISVREPMQTGIK.A			Oxidation (M)	
1025.5869	1026.6107	16	195	204	R.AVDSLVPVIGR.G				
1315.7347	1316.7632	16	219	230	K.TSIAIDTIINQK.R				
1471.8358	1472.8187	-17	219	231	K.TSIAIDTIINQK.F				
1700.8733	1701.8809	0	302	316	R.DNGKHALIYDDLKQ				
1286.687	1287.7264	25	306	316	K.HALIIYDDLKQ				
875.4899	876.4999	3	323	329	R.QMSLLLR.R			Oxidation (M)	
1552.731	1553.7614	15	335	347	R.EAYPGDVFYLHSR.L				
1134.5815	1135.6057	15	417	427	R.VGSAAGTRAMK.Q			Oxidation (M)	
1622.845	1623.8705	11	428	441	K.QVAGTMKLELAQYR.E			Oxidation (M)	
2337.1601	2338.1392	-12	442	463	R.EVAFAFGSDLDAAATQQLLSR.G				
2324.1471	2325.156	1	473	493	K.QGQYSPMAIEEQVAVIYAGVR.G			Oxidation (M)	

# Spot 124 (D10 20070719) – Protein disulfide-isomerase A3 (Pdia3)

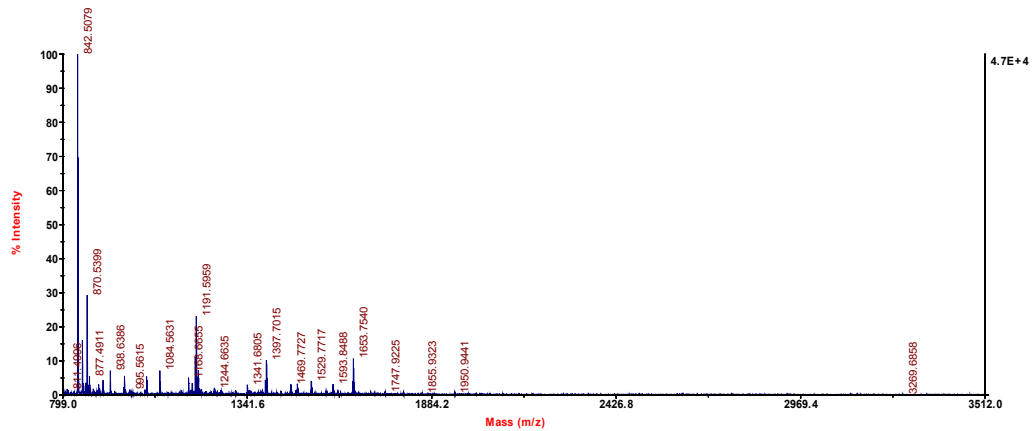


Spot 124 (20070719-D10) Pdia3							
MS•MS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
866.4617	866.4696	8	416	422	YKELGEK		
877.489	877.4948	7	297	304	LNFVAVASR		
938.6396	938.6415	2	74	82	LKGVPLAK		
995.6632	995.6713	8	131	140	QAGPASVPLR		
1084.5674	1084.5696	2	95	104	YGVSGYPTLK		
1168.6695	1168.6838	13	120	130	TADGVSHLKK		
1179.5865	1179.5922	5	174	183	AASNLRDNYR		
1188.5354	1188.5417	5	336	344	FVMQEEFSR		Oxidation (M)
1188.5354	1188.5417	5	336	344	FVMQEEFSR	19	98.726 Oxidation (M)
1191.6005	1191.6027	2	63	73	LAPEYEAATR		
1197.7201	1197.7302	8	423	433	LSKDPNVIK		
1244.6633	1244.6726	7	184	194	FAHTNVEVLK		
1341.6837	1341.6868	2	449	460	GFPTIYSPANK		
1341.6837	1341.6868	2	449	460	GFPTIYSPANK	61	100
1347.7015	1347.7002	-1	62	73	LAPEYEAATR		
1373.6736	1373.6775	3	352	362	FLQEYFDGNLK		
1394.6587	1394.6625	3	162	173	DLFSDGHSEFLK	56	100
1394.6587	1394.6625	3	162	173	DLFSDGHSEFLK		
1397.7059	1397.7092	2	472	482	ELNDFISYLR		
1469.7767	1469.7808	1	449	461	GFPTIYSPANK		
1468.6767	1468.683	3	336	347	FVMQEEFSRDGK		Oxidation (M)
1468.6767	1468.683	3	336	347	FVMQEEFSRDGK		Oxidation (M)
1502.6943	1502.7043	7	333	344	GEKFMQEEFSR		Oxidation (M)
1529.7747	1529.7817	5	352	363	FLQEYFDGNLKR		
1529.7747	1529.7817	5	352	363	FLQEYFDGNLKR	69	100
1587.8165	1587.826	6	148	161	FISDKDASVGFRR		
1593.8483	1593.8506	1	483	496	EATNPPIQEEKPK		
1593.8483	1593.8506	1	483	496	EATNPPIQEEKPK	21	99.247
1607.7476	1607.749	1	259	271	DLTAYVDVYEK		
1607.7476	1607.749	1	259	271	DLTAYVDVYEK	30	99.899
1652.7662	1652.7681	1	105	119	IFRDGEEAGAYDGPR		
1652.7662	1652.7681	1	105	119	IFRDGEEAGAYDGPR	25	99.722
1721.9432	1721.9537	6	483	497	EATNPPIQEEKPKK		
1800.9377	1800.9374	0	364	379	YKSEPIPETEGPVK		
1850.0382	1850.0476	5	483	498	EATNPPIQEEKPKKK		
1872.9813	1872.9875	3	131	147	QAGPASVPLRTEDEFK		
1950.9331	1950.9434	5	259	274	DLTAYVDVYEKNTK		
1950.9331	1950.9434	5	259	274	DLTAYVDVYEKNTK	95	100

Spot 124 (20070719-D10) Pdia3						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score C.I.% Modification
1346.6942	1347.6978	-3	62	73	K.RLAPEYEAATR.L	
1190.5931	1191.6012	1	63	73	R.LAPEYEAATR.L	
937.6324	938.6424	3	74	82	R.LKGVPLAK.V	
1083.5601	1084.5693	2	95	104	K.YGVSGYPTLKI	
1651.759	1652.7646	-1	105	119	K.IFRDGEEAGYDGPR.T	
1039.5662	1040.5762	5	120	129	R.TADGIVSHLK.K	
1167.6612	1168.6659	15	120	130	R.TADGIVSHLKK.Q	
994.556	995.5738	11	131	140	K.QAGPASVPLR.T	
1743.8791	1744.8855	-1	131	146	K.QAGPASVPLRTEDEFK.K	
1586.8093	1587.8254	6	148	161	K.FISDKDASVYGFRR.D	
1393.6514	1394.6626	3	162	173	R.DLFDGSHSEFLK.A	
1178.5792	1179.5911	4	174	183	K.AASNLRDNYR.F	
1243.6561	1244.6708	6	184	194	R.FAHTNVESLVK.E	
1606.7403	1607.746	-1	259	271	K.DLLTAYTDVDYEK.N	
1949.9258	1950.9403	4	259	274	K.DLLTAYTDVDYEKNTK.G	
1124.5363	1125.5505	42	272	280	K.NTKGSNYWR.N	
979.4943	980.5265	25	281	288	R.NRVMMVAK.T	2 Oxidation (M)
1745.9213	1746.9218	-4	289	304	K.TFLDAGHKLNFVAASR.K	
876.4817	877.4951	7	297	304	K.LNFVAASR.K	
2604.3072	2605.2864	-11	306	329	K.TFSHELSDFGLESTTGEIPVVAIR.T	
1501.6871	1502.7021	5	333	344	K.GEFVMOEEFSR.D	Oxidation (M)
1171.5332	1172.5309	-8	336	344	K.FVMQEEFSR.D	
1187.5281	1188.5409	5	336	344	K.FVMQEEFSR.D	Oxidation (M)
1471.6766	1472.7472	43	336	347	K.FVMQEEFSRDGK.A	
1487.6715	1488.6804	1	336	347	K.FVMQEEFSRDGK.A	Oxidation (M)
1372.6663	1373.6779	3	352	362	R.FLQEYFDGNLKR	
1528.7674	1529.7792	3	352	363	R.FLQEYFDGNLKR.Y	
1799.9305	1800.9334	-2	364	379	R.YLKSEPIPETNEGPKV.V	
865.4545	866.4681	7	416	422	K.YKELGK.L	
1196.7128	1197.7245	4	423	433	K.LSKDPNMAK.M	
1340.6765	1341.6854	1	449	460	K.GFPTIYFSPANK.K	
1468.7714	1469.78	1	449	461	K.GFPTIYFSPANKK.L	
1396.6967	1397.7069	1	472	482	R.ELNDFISYLQR.E	
1592.8409	1593.8491	1	483	496	R.EATNPPIQEEKPK.K	
1720.9359	1721.9529	6	483	497	R.EATNPPIQEEKPKK.K	

### Spot 124 (A21 20080606) - Protein disulfide-isomerase A3 (Pdia3)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 62178] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 21



Spot 124 (20080606-A21) Pdia3										
MS•MS/MS										
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification		
866.4617	866.4694	9	416	422	YKELGEK	2	5.539			
866.4617	866.4694	9	416	422	YKELGEK					
877.489	877.4922	4	297	304	LNFVAVASR					
877.489	877.4922	4	297	304	LNFVAVASR					
888.4573	888.4609	4	289	296	TFLDAGHK					
938.6396	938.6396	-1	74	82	LKGVPLAK	18	97.583			
938.6396	938.6396	-1	74	82	LKGVPLAK					
951.5509	951.5461	-5	219	226	IVAYTEKK					
980.5015	980.5021	1	281	288	NRVMMVAK			2 Oxidation (M)		
995.5632	995.5636	0	131	140	QAGPASVPLR					
1040.5735	1040.574	0	120	129	TADGIVSHLK					
1084.5674	1084.5657	-2	95	104	YGVSGYPTLK					
1084.5674	1084.5657	-2	95	104	YGVSGYPTLK	35	99.954			
1168.6685	1168.6705	2	120	130	TADGIVSHLKK	18	97.75			
1168.6685	1168.6705	2	120	130	TADGIVSHLKK					
1179.5865	1179.5866	-1	174	183	AASNLRDNYR					
1179.5865	1179.5866	-1	174	183	AASNLRDNYR					
1188.6354	1188.6331	-2	336	344	FVMQEEFSR			Oxidation (M)		
1191.6005	1191.5986	-2	63	73	LAPEYEAATR					
1191.6005	1191.5986	-2	63	73	LAPEYEAATR	41	99.989			
1197.7201	1197.7175	-2	423	433	LSKDPNVIK					
1197.7201	1197.7175	-2	423	433	LSKDPNVIK					
1244.6633	1244.6604	-2	184	194	FAHTNVESLVK					
1341.6837	1341.6836	0	449	460	GFPTIYFSPANK					
1347.7015	1347.6963	-4	62	73	RLAPEYEAATR					
1394.6587	1394.6566	-2	162	173	DLFSDGHSEFLK					
1397.7059	1397.7043	-1	472	482	ELNDFISYLQR					
1397.7059	1397.7043	-1	472	482	ELNDFISYLQR	22	99.033			
1469.7787	1469.7772	-1	449	461	GFPTIYFSPANKK					
1469.7787	1469.7772	-1	449	461	GFPTIYFSPANKK	28	99.756			
1488.6787	1488.6748	-3	336	347	FVMQEEFSRDGK			Oxidation (M)		
1529.7747	1529.7716	-2	352	363	FLQEIFDGNLKR					
1529.7747	1529.7716	-2	352	363	FLQEIFDGNLKR	38	99.979			
1587.8165	1587.8143	-1	148	161	FISDKDASVGFRR					
1593.8483	1593.8505	1	483	496	EATNPPIQEEKPK					
1593.8483	1593.8505	1	483	496	EATNPPIQEEKPK	6	64.169			
1607.7476	1607.7432	-3	259	271	DLTAYYDVDYEK					
1652.7472	1652.755	5	434	448	MDATANDVPSPYEVK			Oxidation (M)		
1652.7662	1652.755	-7	105	119	IFRDGEEAGYDGPR	11	89.948			

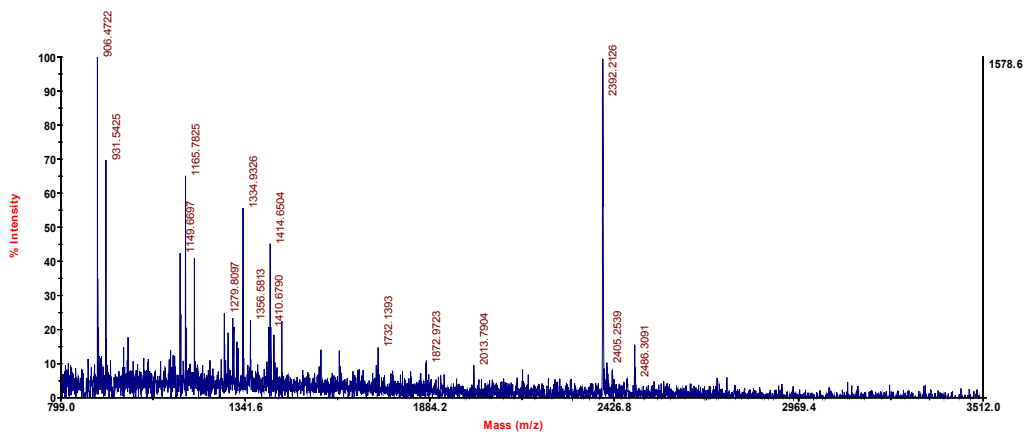
Spot 124 (20080606-A21) Pdia3										
PMF/MALDI										
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification		
1346.6942	1347.6969	-3	62	73	K.LAPEYEAATR.L					
1190.5931	1191.5959	-4	63	73	R.LAPEYEAATR.L					
937.6324	938.6387	-1	74	82	R.LKGVPLAK.V					
1083.5601	1084.5631	-4	95	104	K.YGVSGYPTLK.I					
1235.5054	1236.5073	-4	108	119	R.DGEEAGAYDGPR.T					
1039.5662	1040.5709	-2	120	129	R.TADGIVSHLK.K					
1167.6612	1168.6655	-2	120	130	R.TADGIVSHLKK.Q					
994.566	995.5616	-2	131	140	K.QAGPASVPLR.T					
1586.8093	1587.8108	-4	148	161	K.FISDKDASVGFRR.D					
1393.6514	1394.6555	-2	162	173	R.DLFSDGHSEFLK.A					
1178.5792	1179.5848	-1	174	183	K.AASNLRDNYR.F					
1243.6561	1244.6635	0	184	194	R.FAHTNVESLVK.E					
950.5437	951.5482	-3	219	226	K.IVAYTEKK.M					
1606.7403	1607.7469	0	259	271	K.DLTAYYDVDYEK.N					
1949.9258	1950.9441	-1	281	288	R.NRVMMVAK.T			2 Oxidation (M)		
979.4943	980.5002	-1	281	288	R.NRVMMVAK.T					
867.4501	868.4617	5	289	296	K.TFLDAGHK.L					
876.4817	877.4911	2	297	304	K.LNFVAVASR.K					
1485.6822	1486.7593	40	333	344	K.GEKFVMOEEFSR.D					
1187.5281	1188.6309	-4	336	344	K.FVMQEEFSR.D			Oxidation (M)		
1487.6715	1488.6713	-5	336	347	K.FVMQEEFSRDGK.A			Oxidation (M)		
1528.7674	1529.7716	-2	352	363	R.FLQEIFDGNLKR.Y					
1799.9305	1800.9391	1	364	379	R.YLKSEPIPETNEGPK.V					
1395.6882	1396.6897	-4	367	379	K.SEPIPETNEGPK.V					
865.4545	866.4642	3	416	422	K.YKELGEK.L					
1196.7128	1197.7148	-4	423	433	K.LSKDPNVIK.M					
1651.7399	1652.7528	3	434	448	K.MDATANDVPSPYEVK.G			Oxidation (M)		
1340.6765	1341.6805	-2	449	460	K.GFPTIYFSPANK.K					
1468.7714	1469.7727	-4	449	461	K.GFPTIYFSPANKK.L					
1396.6987	1397.7015	-3	472	482	R.ELNDFISYLQR.E					
1592.8409	1593.8488	0	483	496	R.EATNPPIQEEKPK.K					

### Spot 130 (P1014-06) – 14-3-3 protein epsilon (Ywhae)

Spot 130 (P1014-06) Ywhae											
LCMS/MS (Scaffold)											
Sample Name	Acc No.	Protein(s) inferred	No. Peptides identified	Sequence Coverage	Position in sequence	Peptide Sequence	Precursor m/z	Charge observed	Calculated mass (neutral)	Mascot score	Mascot Expect value
P1014-06	P62260	sp P62260 14-3-3 protein epsilon Tax_id=10116 [Rattus norvegicus]	1	4.71%	1 - 12	(-)mDDREDLVYQAK(L)	762.70	2	1523.38	48.6	5.12E-002

# Spot 132 (B12 20080606) - Peroxiredoxin-6 (Prdx6)

SUB [4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 8860] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 212

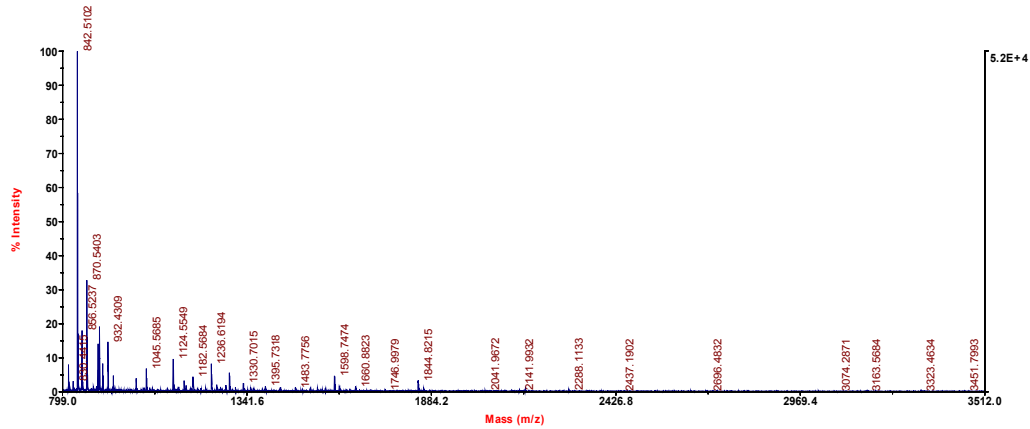


Spot 132 (20080606-B12) Prdx6						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	
906.4679	906.4673	-1	156	162	NFDEILR	
906.4679	906.4673	-1	156	162	NFDEILR	2
931.5359	931.5396	4	57	64	LAPEFAKR	
1045.604	1045.5707	-32	54	63	AAKLAPEFAK	
1149.6666	1149.6783	10	133	142	VVFIFGPDKK	
1191.6732	1191.6832	8	145	155	LSILYPATTGR	
2392.2256	2392.2173	-3	2	24	PGLLLGDEAPNFEANTTIGHIR	55
2392.2256	2392.2173	-3	2	24	PGLLLGDEAPNFEANTTIGHIR	100

Spot 132 (20080606-B12) Prdx6						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
2391.2183	2392.2126	-5	2	24	M.PGLLLGDEAPNFEANTTIGHIR.F	
930.5267	931.5425	7	57	64	K.LAPEFAKR.N	
1148.6594	1149.6697	3	133	142	R.VVFIFGPDKK.L	
1190.6659	1191.6793	5	145	155	K.LSILYPATTGR.N	
905.4607	906.4722	5	156	162	R.NFDEILR.V	
1871.955	1872.9723	5	183	199	K.KGESVMVLPPTLPEEEAK.Q	Oxidation (M)
2485.3138	2486.3091	-5	183	204	K.KGESVMVLPPTLPEEEAKQLFPK.G	Oxidation (M)

# Spot 137 (D2 20080606) – mixture of: 14-3-3 protein beta/alpha (Ywhab) and 14-3-3 protein zeta/delta (Ywhaz)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 56590] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 67



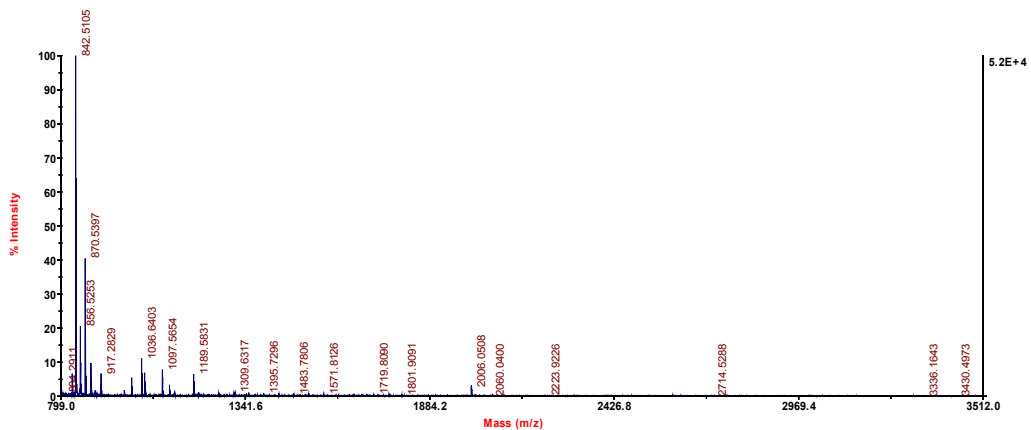
Spot 137 (20080606-D2) Ywhab						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1014.5458	1015.5552	2	12	20	K.AKLAEQAER.Y	
815.4137	816.4211	0	14	20	K.LAEQAER.Y	
1843.808	1844.8215	3	14	29	K.LAEQAERYDDMAAAMK.A	2 Oxidation (M)
1597.7332	1598.7474	4	30	43	K.AVTEQGHLSNEER.N	
906.5174	907.5248	0	44	51	R.NLLSVAYK.N	
1502.8569	1503.8656	1	44	57	R.NLLSVAYKNVVGAR.R	
1658.958	1659.8936	-43	44	58	R.NLLSVAYKNVVGARR.S	
902.5073	903.5159	1	63	70	R.VISSIEGK.T	
1288.6987	1289.7085	2	63	73	R.VISSIEGKTER.N	
1659.8791	1660.8823	-2	63	76	R.VISSIEGKTERNEK.K	
1182.5815	1183.5779	-9	77	85	K.KQMGKQYR.E	Oxidation (M)
1054.4866	1055.4932	-1	78	85	K.QMGKQYR.E	Oxidation (M)
1398.7194	1399.7396	7	106	117	K.YULNATHAESK.V	
931.4222	932.4309	2	123	129	K.MKGDYFR.Y	Oxidation (M)
1181.5564	1182.5694	4	130	140	R.YLSEVAGDQNK.Q	
2158.0178	2159.0479	11	141	159	K.QTTVSNSSQQAQYQEAFAEISK.K	
2286.1128	2287.1659	22	141	160	K.QTTVSNSSQQAQYQEAFAEISK.K.E	
1235.6445	1236.6194	-26	160	169	K.KEMQPTHPIR.L	
1251.6394	1252.6422	-4	160	169	K.KEMQPTHPIR.L	Oxidation (M)
1123.5444	1124.5549	3	161	169	K.EMQPTHPIR.L	Oxidation (M)
1204.6485	1205.6566	1	215	224	K.DSTLIMQLLR.D	Oxidation (M)

Spot 137 (20080606-D2) Ywhaz						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1014.5458	1015.5552	2	10	18	K.AKLAEQAER.Y	
815.4137	816.4211	0	12	18	K.LAEQAER.Y	
1547.7063	1548.7156	1	28	41	K.SYTEQGAELSNEER.N	
2436.2132	2437.1902	-12	28	49	K.SYTEQGAELSNEERNLLSVAYK.N	
906.5174	907.5248	0	42	49	R.NLLSVAYK.N	
1502.8569	1503.8656	1	42	55	R.NLLSVAYKNVVGAR.R	
1658.958	1659.8936	-43	42	56	R.NLLSVAYKNVVGARR.S	
868.4916	869.496	-3	61	68	R.VVSSIEGK.T	
1503.778	1504.8394	32	61	74	R.VVSSIEGKTEGAEK.K	
1631.873	1632.8785	-2	61	75	R.VVSSIEGKTEGAEKK.Q	
1329.6928	1330.7015	-1	104	115	K.FLIPNASQPEK.V	
1597.7963	1598.7474	-35	116	127	K.VFYLMKGDYR.Y	Oxidation (M)
931.4222	932.4309	2	121	127	K.MKGDYR.Y	
947.4171	948.4271	3	121	127	K.MKGDYR.Y	Oxidation (M)
1278.6456	1279.6515	-1	128	139	R.YLAEVAGDDKK.G	
2039.98	2040.9906	2	140	157	K.GVDSQQAQYQEAFAEISK.K	
1235.6445	1236.6194	-26	158	167	K.KEMQPTHPIR.L	
1251.6394	1252.6422	-4	158	167	K.KEMQPTHPIR.L	Oxidation (M)
1123.5444	1124.5549	3	159	167	K.EMQPTHPIR.L	Oxidation (M)
1204.6485	1205.6566	1	213	222	K.DSTLIMQLLR.D	Oxidation (M)



# Spot 141 (D11 20080606) - Ubiquitin-conjugating enzyme E2N (Ube2n)

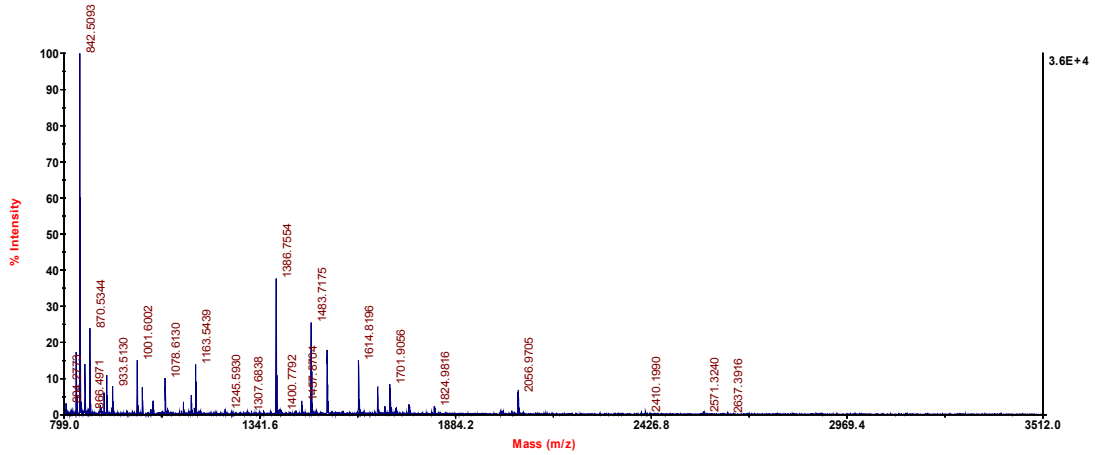
SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 57054] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 67



Spot 141 (20080606-D11) Ube2n						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
886.5236	887.5328	2	8	14	R.IIKETQR.L	
1035.6328	1036.6403	0	15	24	R.LLAEPVPGIK.A	
2005.048	2006.0508	-2	15	33	R.LLAEPVPGIKAEPPDESNA.R.Y	
1746.8902	1747.9059	5	54	68	K.LELFLPEEYPMAAPK.V	
1762.8951	1763.8965	2	54	68	K.LELFLPEEYPMAAPK.V	
984.5029	985.5074	-3	75	82	K.IYHPNVDK.L	Oxidation (M)
1310.7095	1311.6727	-34	75	85	K.IYHPNVDKLR.I	
1188.5734	1189.5831	2	131	141	K.SNEAQAIETAR.A	

**Spot 142 (A17 20080606) - mixture of: Protein disulfide-isomerase A6 (Pdia6), Tubulin alpha-1A chain (Tuba1a), Tubulin alpha-1B (Tuba1b), Tubulin alpha-1C (Tuba1c), and Tubulin alpha-3 (Tuba3)**

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 51390] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 21



Spot 142 (20080606-A17) Pdia6							
MS•MS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
850.5219	850.5365	17	367	373	MKFALLK		
866.5168	866.516	-1	367	373	MKFALLK		Oxidation (M)
901.5141	901.5116	-3	61	67	LTPEWKK		
933.5112	933.5127	2	257	264	TRSDIVSR		
1001.5989	1001.6018	3	68	77	AASALKDVVK	42	99.992
1001.5989	1001.6018	3	68	77	AASALKDVVK		
1078.6143	1078.6139	0	314	322	NSYLEVLLK	31	99.907
1078.6143	1078.6139	0	314	322	NSYLEVLLK		
1123.651	1123.6462	-4	232	241	YGKGFPTIK		
1151.4963	1151.4963	0	246	256	GESPVDYDGGR		
1163.5439	1163.5427	-1	109	118	NKPEDYGGGR		
1163.5439	1163.5427	-1	109	118	NKPEDYGGGR	64	100
1386.7587	1386.756	-2	119	132	TGEAVDAALSALR	76	100
1386.7587	1386.756	-2	119	132	TGEAVDAALSALR		
1483.7175	1483.7181	0	374	386	GSFSEGGINEFLR	49	99.998
1483.7175	1483.7181	0	374	386	GSFSEGGINEFLR		
1527.8469	1527.8445	-3	217	231	LAAVDATVNGVLASR	43	99.994
1527.8469	1527.8445	-3	217	231	LAAVDATVNGVLASR		
1614.8234	1614.8203	-2	393	409	GSTAPVGGGFFNITPR		
1614.8234	1614.8203	-2	393	409	GSTAPVGGGFFNITPR	34	99.943
1667.8024	1667.8011	-1	242	256	IFQKGSPVDYDGGR	38	99.979
1667.8024	1667.8011	-1	242	256	IFQKGSPVDYDGGR		
1755.0123	1755.0106	-1	215	231	VKLAAVDATVNGVLASR		
2015.0079	2014.9926	-8	195	212	NLEPEWAAAATEVKEQTK		
2571.3313	2571.3171	-6	78	102	VGAVNADKHQSLGGQYGVQGFPTIK		
2637.3657	2637.4011	13	265	288	ALDLFSDNAPPELLEIINEDIAK		

Spot 142 (20080606-A17) Pdia6							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
900.5069	901.5107	-4	61	67	R.LTPEWKK.A		
1000.5917	1001.6002	-1	68	77	K.AASALKDVVK.V		
2570.3242	2571.324	-3	78	102	K.VGAVNADKHQSLGGQYGVQGFPTIK.I		
1815.9268	1816.9316	-1	86	102	K.HQSLGGQYGVQGFPTIK.I		
1162.6367	1163.5439	0	109	118	K.NKPEDYGGGR.T		
1386.7514	1386.7554	-2	119	132	R.TGEAVDAALSALR.Q		
2014.0007	2014.9895	-9	195	212	K.NLEPEWAAAATEVKEQTK.G		
1754.005	1755.009	-2	215	231	K.VKLAAVDATVNGVLASR.Y		
1526.8416	1527.8455	-2	217	231	K.LAAVDATVNGVLASR.Y		
1666.7951	1667.8004	-1	242	256	K.IFQKGSPVDYDGGR.T		
1150.4891	1151.496	0	246	256	K.GESPVDYDGGR.T		
932.5039	933.513	2	257	264	R.TRSDIVSR.A		
2636.3585	2637.3916	10	265	288	R.ALDLFSDNAPPELLEIINEDIAK.K		
1077.607	1078.613	-1	314	322	R.NSYLEVLLK.L		
865.5095	866.4971	-23	367	373	K.MKFALLK.G		Oxidation (M)
1482.7103	1483.7175	0	374	386	K.GSFSEGGINEFLR.E		
1613.8162	1614.8196	-2	393	409	R.GSTAPVGGGFFNITPR.E		

Spot 142 (20070719-D9) Pdia6									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
901.5141	901.512	-2	61	67	LTPEWKK				
933.5112	933.508	-3	257	264	TRSDIVSR				
1001.5989	1001.588	-11	68	77	AASALKDVVK				
1078.6143	1078.6113	-3	314	322	NSYLEVLLK				
1123.651	1123.6239	-24	232	241	YGKGFPTIK				
1151.4963	1151.4943	-2	246	256	GESPVYDGGGR				
1163.5439	1163.5404	-3	109	118	NKPEDYGGGR	29	99.856		
1163.5439	1163.5404	-3	109	118	NKPEDYGGGR				
1386.7587	1386.7555	-2	119	132	TGEAVDAALSALR				
1386.7587	1386.7555	-2	119	132	TGEAVDAALSALR	19	98.545		
1483.7175	1483.7114	-4	374	386	GSFSEGGINEFLR				
1483.7175	1483.7114	-4	374	386	GSFSEGGINEFLR	37	99.978		
1527.8489	1527.8403	-6	217	231	LAAVDATVNGVLASR	2	31.314		
1527.8489	1527.8403	-6	217	231	LAAVDATVNGVLASR				
1528.7642	1528.7372	-22	195	208	NLEPEWAAAATEVK				
1614.8234	1614.8156	-5	393	409	GSTAPVGGGSPFNITPR				
1614.8234	1614.8156	-5	393	409	GSTAPVGGGSPFNITPR	46	99.997		
1667.8024	1667.7954	-4	242	256	IFQKGESPVYDGGGR				
1667.8024	1667.7954	-4	242	256	IFQKGESPVYDGGGR	77	100		
1793.8928	1793.8906	-1	103	118	IFGANKNKPEDYQGGGR				
1816.9341	1816.9204	-8	86	102	HQSLGGQYGVQGFPTIK				
2015.0079	2015.0028	-3	195	212	NLEPEWAAAATEVKEQTK				
2015.0079	2015.0028	-3	195	212	NLEPEWAAAATEVKEQTK	88	100		
2200.1243	2200.1133	-5	195	214	NLEPEWAAAATEVKEQTKGK				
2571.3313	2571.3267	-2	78	102	VGAVNADKHQSLGGQYGVQGFPTIK				
2571.3313	2571.3267	-2	78	102	VGAVNADKHQSLGGQYGVQGFPTIK	2	35.157		

Spot 142 (20070719-D9) Pdia6									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
900.5069	901.5105	-4	61	67	RLTPEWKK.A				
1000.5917	1001.5968	-12	68	77	K.AASALKDVVK.V				
2570.3242	2571.335	1	78	102	K.VGAVNADKHQSLGGQYGVQGFPTIK.I				
1815.9268	1816.9236	-6	86	102	K.HQSLGGQYGVQGFPTIK.I				
1792.8856	1793.8934	0	103	118	K.IFGANKNKPEDYQGGGR.T				
1162.5367	1163.542	-2	109	118	K.NKPEDYQGGGR.T				
1385.7514	1386.7562	-2	119	132	R.TGEAVDAALSALR.G				
1527.7569	1528.8004	24	195	208	K.NLEPEWAAAATEVKE				
2014.0007	2015.0076	0	195	212	K.NLEPEWAAAATEVKEQTK.G				
1526.8416	1527.842	-5	217	231	K.LAAVDATVNGVLASR.Y				
1122.6437	1123.6227	-25	232	241	R.YGKGFPTIK.I				
1666.7951	1667.8	-1	242	256	K.IFQKGESPVYDGGGR.T				
1150.4891	1151.4943	-2	246	256	K.GESPVYDGGGR.T				
932.5039	933.5059	-6	257	264	R.TRSDIVSR.A				
1077.607	1078.6105	-4	314	322	R.NSYLEVLLK.L				
849.5146	850.5498	33	367	373	K.MKFAALLK.G				
1482.7103	1483.7151	-2	374	386	K.GSFSEGGINEFLR.E				
1613.8162	1614.8201	-2	393	409	R.GSTAPVGGGSPFNITPR.E				
2326.1342	2327.1636	9	393	415	R.GSTAPVGGGSPFNITPREPWDGK.D				

Spot 142 (20080606-A17) Tuba1a									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
909.504	909.5071	3	157	164	LSVDYGKK				
909.504	909.5071	3	157	164	LSVDYGKK	14	94.592		
1015.5782	1015.5756	-3	327	336	DVNAAIATIK	27	99.751		
1015.5782	1015.5756	-3	327	336	DVNAAIATIK				
1085.6201	1085.6171	-3	113	121	EIDLVLDR				
1396.693	1396.7179	18	391	401	LDHKFDLMIYAK			Oxidation (M)	
1457.8685	1457.8682	0	230	243	LIGQIVSSITASLR				
1701.9058	1701.9041	-1	65	79	AVFVDLEPTVIDEVR	43	99.994		
1701.9058	1701.9041	-1	65	79	AVFVDLEPTVIDEVR				
1718.8821	1718.8796	-1	216	229	NLDIERPTYTNLNR				
1756.9633	1756.9662	13	265	280	IHFPLATYAPVISAEEK				
1824.9854	1824.9821	-2	353	370	VGINYQPPTVPPGGDLAK				
2007.8929	2007.9025	5	41	60	TIGGGDDSFNTFFSETGAGK				

Spot 142 (20080606-A17) Tuba1a									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
2006.8858	2007.9072	7	41	60	K.TIGGGDDSFNTFFSETGAGK.H				
1700.8985	1701.9056	0	65	79	R.AVFVDLEPTVIDEVR.T				
1084.6128	1085.6172	-3	113	121	K.EIDLVLDR.I				
908.4967	909.5056	2	157	164	R.LSVDYGKK.S				
1717.8747	1718.8787	-2	216	229	R.NLDIERPTYTNLNR.L				
1456.8613	1457.8704	1	230	243	R.LIGQIVSSITASLR.F				
2408.2012	2409.1812	-11	244	264	R.FDGNVLDLTFQTNLVPYPR.I				
1755.9559	1756.9847	12	265	280	R.IHFPLATYAPVISAEEK.A				
1014.5709	1015.5756	-3	327	336	K.DVNAAIATIK.T				
1823.9782	1824.9816	-2	353	370	K.VGINYQPPTVPPGGDLAK.V				

Spot 142 (20080606-A17) Tuba1b									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
909.504	909.5071	3	157	164	LSVDYGKK				
909.504	909.5071	3	157	164	LSVDYGKK	14	94.592		
1015.5782	1015.5756	-3	327	336	DVNAAIATIK	27	99.751		
1015.5782	1015.5756	-3	327	336	DVNAAIATIK				
1085.6201	1085.6171	-3	113	121	EIDLVLDR				
1396.693	1396.7179	18	391	401	LDHKFDLMYAK			Oxidation (M)	
1701.9058	1701.9041	-1	65	79	AVFVDLEPTVDEVR	43	99.994		
1701.9058	1701.9041	-1	65	79	AVFVDLEPTVDEVR				
1718.8821	1718.8796	-1	216	229	NLDIERPTYNLNR				
1756.9633	1756.9862	13	265	280	IHFPLATYAPVISAEEK				
1824.9854	1824.9821	-2	353	370	VGINYPPTVPPGGDLAK				
2007.8929	2007.9025	5	41	60	TIGGGDDSFNTFFSETGAGK				

Spot 142 (20080606-A17) Tuba1b									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
2006.8858	2007.9072	7	41	60	K.TIGGGDDSFNTFFSETGAGK.H				
1700.8985	1701.9056	0	65	79	R.AVFVDLEPTVDEVR.T				
1084.6128	1085.6172	-3	113	121	K.EIDLVLDR.I				
908.4967	909.5056	2	157	164	R.LSVDYGKK.S				
1717.8747	1718.8787	-2	216	229	R.NLDIERPTYNLNR.L				
1486.8719	1487.8765	-2	230	243	R.LIGQIVSSITASLR.F				
2408.2012	2409.1812	-11	244	264	R.FDGALNVDLTFQTNLVPYPR.I				
1755.9559	1756.9847	12	265	280	R.IHFPLATYAPVISAEEK.A				
1014.5709	1015.5756	-3	327	336	K.DVNAAIATIK.T				
1823.9782	1824.9816	-2	353	370	K.VGINYPPTVPPGGDLAK.V				

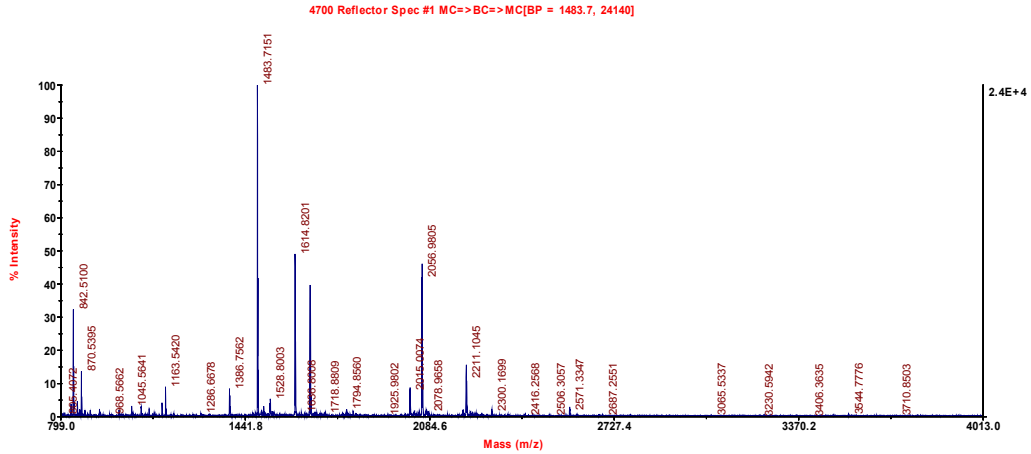
Spot 142 (20080606-A17) Tuba1c									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
909.504	909.5071	3	157	164	LSVDYGKK				
909.504	909.5071	3	157	164	LSVDYGKK	14	94.592		
1015.5782	1015.5756	-3	327	336	DVNAAIATIK	27	99.751		
1015.5782	1015.5756	-3	327	336	DVNAAIATIK				
1085.6201	1085.6171	-3	113	121	EIDLVLDR				
1396.693	1396.7179	18	391	401	LDHKFDLMYAK			Oxidation (M)	
1701.9058	1701.9041	-1	65	79	AVFVDLEPTVDEVR	43	99.994		
1701.9058	1701.9041	-1	65	79	AVFVDLEPTVDEVR				
1718.8821	1718.8796	-1	216	229	NLDIERPTYNLNR				
1756.9633	1756.9862	13	265	280	IHFPLATYAPVISAEEK				
2007.8929	2007.9025	5	41	60	TIGGGDDSFNTFFSETGAGK				

Spot 142 (20080606-A17) Tuba1c									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
2006.8858	2007.9072	7	41	60	K.TIGGGDDSFNTFFSETGAGK.H				
1700.8985	1701.9056	0	65	79	R.AVFVDLEPTVDEVR.T				
1084.6128	1085.6172	-3	113	121	K.EIDLVLDR.I				
908.4967	909.5056	2	157	164	R.LSVDYGKK.S				
1717.8747	1718.8787	-2	216	229	R.NLDIERPTYNLNR.L				
1486.8719	1487.8765	-2	230	243	R.LIGQIVSSITASLR.F				
2408.2012	2409.1812	-11	244	264	R.FDGALNVDLTFQTNLVPYPR.I				
1755.9559	1756.9847	12	265	280	R.IHFPLATYAPVISAEEK.A				
1014.5709	1015.5756	-3	327	336	K.DVNAAIATIK.T				

Spot 142 (20080606-A17) Tuba3									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
909.504	909.5071	3	157	164	LSVDYGKK				
909.504	909.5071	3	157	164	LSVDYGKK	14	94.592		
1015.5782	1015.5756	-3	327	336	DVNAAIATIK	27	99.751		
1015.5782	1015.5756	-3	327	336	DVNAAIATIK				
1071.6045	1071.6034	-1	113	121	EVDLVLDR				
1396.693	1396.7179	18	391	401	LDHKFDLMYAK			Oxidation (M)	
1457.8685	1457.8682	0	230	243	LIGQIVSSITASLR				
1687.8901	1687.8824	-5	65	79	AVFVDLEPTVDEVR				
1718.8821	1718.8796	-1	216	229	NLDIERPTYNLNR				
1756.9633	1756.9862	13	265	280	IHFPLATYAPVISAEEK				
1824.9854	1824.9821	-2	353	370	VGINYPPTVPPGGDLAK				
2007.8929	2007.9025	5	41	60	TIGGGDDSFNTFFSETGAGK				

Spot 142 (20080606-A17) Tuba3									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
2006.8858	2007.9072	7	41	60	K.TIGGGDDSFNTFFSETGAGK.H				
1686.8829	1687.8845	-3	65	79	R.AVFVDLEPTVDEVR.T				
908.4967	909.5056	2	157	164	R.LSVDYGKK.S				
1717.8747	1718.8787	-2	216	229	R.NLDIERPTYNLNR.L				
1456.8613	1457.8704	1	230	243	R.LIGQIVSSITASLR.F				
2408.2012	2409.1812	-11	244	264	R.FDGALNVDLTFQTNLVPYPR.I				
1755.9559	1756.9847	12	265	280	R.IHFPLATYAPVISAEEK.A				
1014.5709	1015.5756	-3	327	336	K.DVNAAIATIK.T				
1823.9782	1824.9816	-2	353	370	K.VGINYPPTVPPGGDLAK.V				

# Spot 142 (D9 20070719) – Protein disulfide-isomerase A6 (Pdi6)



Spot 142 (20070719.D9) Pdi6						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	
901.5141	901.512	-2	61	67	LTPEWKK	
933.5112	933.508	-3	257	264	TRSDIVSR	
1001.5989	1001.588	-11	68	77	AASALKDVVK	
1078.6143	1078.6113	-3	314	322	NSYLEVLLK	
1123.651	1123.6239	-24	232	241	YGKGFPTIK	
1151.4963	1151.4943	-2	246	256	GESPDYDGGRR	
1163.5439	1163.5404	-3	109	118	NKPEDYQGGRR	29
1163.5439	1163.5404	-3	109	118	NKPEDYQGGRR	99.856
1386.7587	1386.7555	-2	119	132	TGEAVDAALSALR	
1386.7587	1386.7555	-2	119	132	TGEAVDAALSALR	19
1483.7175	1483.7114	-4	374	386	GSFSEGGINEFLR	
1483.7175	1483.7114	-4	374	386	GSFSEGGINEFLR	37
1527.8489	1527.8403	-6	217	231	LAAVDATVNGVLASR	2
1527.8489	1527.8403	-6	217	231	LAAVDATVNGVLASR	31.314
1528.7642	1528.7972	22	195	208	NLEPEWAAAATEVK	
1614.8234	1614.8156	-5	393	409	GSTAPVGGGSPFNITPR	46
1614.8234	1614.8156	-5	393	409	GSTAPVGGGSPFNITPR	99.997
1667.8024	1667.7954	-4	242	256	IFQKGSPVDYDGGRR	
1667.8024	1667.7954	-4	242	256	IFQKGSPVDYDGGRR	77
1793.8928	1793.8906	-1	103	118	IFGANKNKPEDYQGGRR	
1816.9341	1816.9204	-8	86	102	HQSLGGQYGVQGFPTIK	
2015.0079	2015.0028	-3	195	212	NLEPEWAAAATEVK•EOTK	
2015.0079	2015.0028	-3	195	212	NLEPEWAAAATEVK•EOTK	88
2015.0079	2015.0028	-3	195	212	NLEPEWAAAATEVK•EOTK	100
2200.1243	2200.1133	-5	195	214	NLEPEWAAAATEVK•EOTK•GK	
2571.3313	2571.3267	-2	78	102	VGAVNADKHQSLGGQYGVQGFPTIK	
2571.3313	2571.3267	-2	78	102	VGAVNADKHQSLGGQYGVQGFPTIK	2
2571.3313	2571.3267	-2	78	102	VGAVNADKHQSLGGQYGVQGFPTIK	35.157

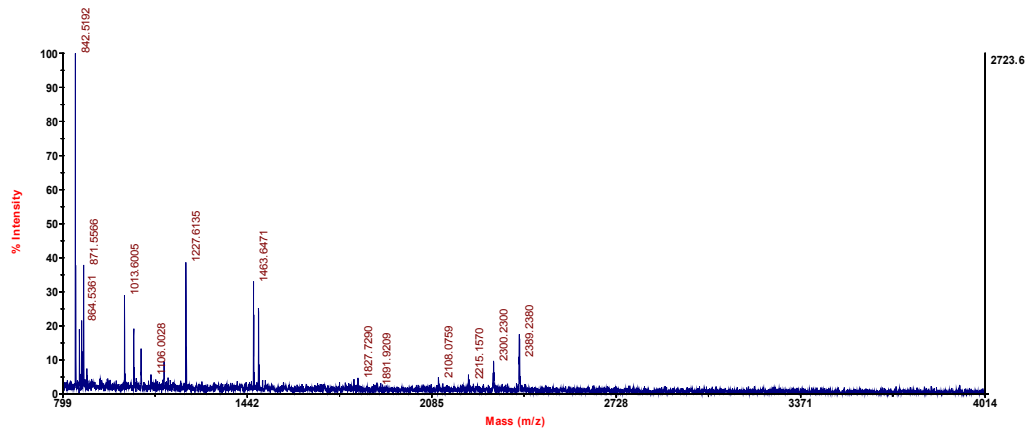
Spot 142 (20070719.D9) Pdi6						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
900.5069	901.5105	-4	61	67	R.LTPEWKK.A	
1000.5917	1001.5868	-12	68	77	K.AASALKDVVK.V	
2570.3242	2571.335	1	78	102	K.VGAVNADKHQSLGGQYGVQGFPTIK.I	
1915.9268	1916.9236	-6	86	102	K.HQSLGGQYGVQGFPTIK.I	
1792.8956	1793.8934	0	103	118	K.IFGANKNKPEDYQGGRR.T	
1162.5367	1163.542	-2	109	118	K.NKPEDYQGGRR.T	
1385.7514	1386.7562	-2	119	132	R.TGEAVDAALSALR.Q	
1527.7569	1528.8004	24	195	208	K.NLEPEWAAAATEVK.E	
2014.0007	2015.0076	0	195	212	K.NLEPEWAAAATEVK•EOTK.G	
1526.8416	1527.842	-5	217	231	K.LAAVDATVNGVLASR.Y	
1122.6437	1123.6227	-25	232	241	R.YGKGFPTIK.I	
1666.7951	1667.8	-1	242	256	K.IFQKGSPVDYDGGRR.T	
1150.4891	1151.4943	-2	246	256	K.GESPDYDGGRR.T	
932.5039	933.5059	-6	257	264	R.TRSDIVSR.L	
1077.607	1078.6105	-4	314	322	R.NSYLEVLLK.L	
849.5146	850.5498	33	367	373	K.MK•FALLK.G	
1482.7103	1483.7151	-2	374	386	K.GSFSEGGINEFLR.E	
1613.8162	1614.8201	-2	393	409	R.GSTAPVGGGSPFNITPR.E	
2326.1342	2327.1636	9	393	415	R.GSTAPVGGGSPFNITPREP•WDGK.D	

## Spot 145 (P1014-15) – Aldose reductase (Akr1b1)

Spot 145 (P1014-15) Akr1b1											
LCMS/MS (Scaffold)											
Sample Name	Acc No.	Protein(s) inferred	No. Peptides identified	Sequence Coverage	Position in sequence	Peptide Sequence	Precursor m/z	Charge observed	Calculated mass (neutral)	Mascot score	Mascot Expect value
P1014-15	P07943	sp P07943 Aldose reductase Tax_id=10116 [Rattus norvegicus]	1	4.43%	156 - 169	(K)AIGVSNFNPLGIER(I)	779.20	2	1556.38	55.5	8.30E-003

# Spot 148 (E14 20070719) – Ferritin light chain 1 (Ftl1)

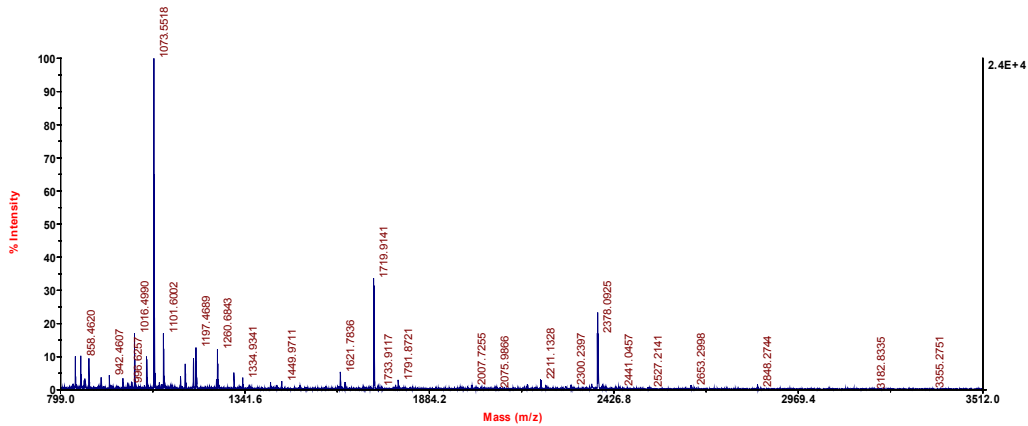
SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 11141] , <<E15\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 8



Spot 148 (20070719-E14) Ftl1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1479.6954	1480.6689	-23	7	19	R.QNYSVEEAAVNR.L	Ion Score
883.5341	864.5361	-6	20	26	R.LVNLHLR.A	C.I.% Modification
1012.6029	1013.6005	-10	66	73	R.LLKLGNER.G	
1070.5291	1071.5176	-18	145	153	K.MGNHLTLR.R	Oxidation (M)
1226.6302	1227.6135	-20	145	154	K.MGNHLTLRR.V	Oxidation (M)
2388.2074	2389.238	10	155	177	R.VAGPQPAQTGVAQASLGEYLFER.L	

**Spot 150 (C6 20080606) – mixture of: rCG61762, isoform CRA\_f (similar to: Splicing factor, arginine/serine-rich 7) (rCG61762) and Splicing factor, arginine/serine-rich 7 (Sfrs7)**

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 1073.6, 24552] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 6



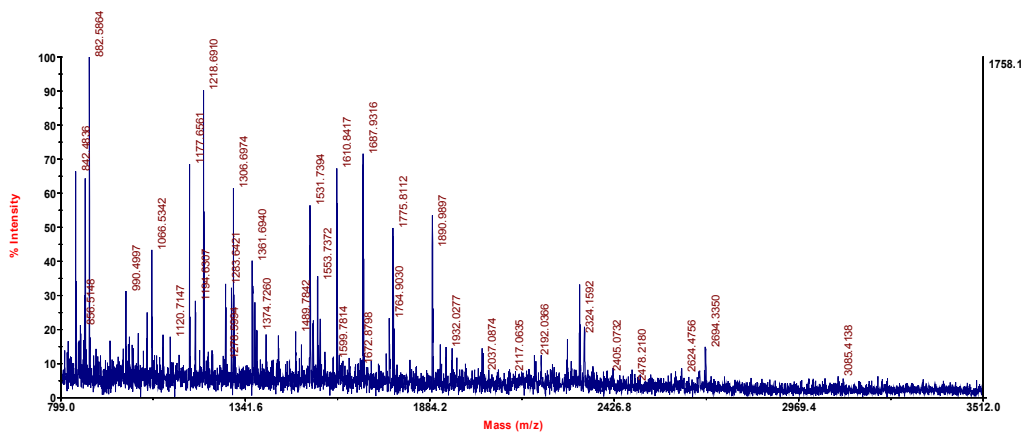
Spot 150 (20080606.C6) rCG61762							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
2354.1866	2355.1855	-4	7	29	R.YGGETKVYYGNLGTGAGKGELER.A		
1718.8951	1719.9141	7	13	29	K.VYVGNLGTGAGKGELER.A		
1072.5342	1073.5516	10	30	38	R.AFSYYGLR.T		
1620.7573	1621.7834	12	45	58	R.NPPGFAFVEFEDPR.D		
2377.0975	2378.0925	-5	45	65	R.NPPGFAFVEFEDPRDAEDAVR.G		
2847.3464	2848.2744	-28	45	70	R.NPPGFAFVEFEDPRDAEDAVRGLDGK.V		
1259.8656	1260.6842	9	77	87	R.VRVELSTGMPPR.R		Oxidation (M)
1415.7667	1416.7821	6	77	88	R.VRVELSTGMPPR.S		Oxidation (M)
1256.685	1257.7036	9	88	97	R.SRFDRPPAR.R		
1100.5839	1101.6002	8	89	97	R.SRFDRPPAR.R		
857.4508	858.462	5	91	97	R.FDRPPAR.R		
1015.4835	1016.499	8	98	105	R.RPFPNDR.C		
941.4903	942.4607	-39	134	141	R.SHSRSRGR.R		

Spot 150 (20080606.C6) Sfrs7							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
2354.1866	2355.1855	-4	7	29	R.YGGETKVYYGNLGTGAGKGELER.A		
1718.8951	1719.9141	7	13	29	K.VYVGNLGTGAGKGELER.A		
1072.5342	1073.5516	10	30	38	R.AFSYYGLR.T		
1620.7573	1621.7834	12	45	58	R.NPPGFAFVEFEDPR.D		
2377.0975	2378.0925	-5	45	65	R.NPPGFAFVEFEDPRDAEDAVR.G		
2847.3464	2848.2744	-28	45	70	R.NPPGFAFVEFEDPRDAEDAVRGLDGK.V		
1259.8656	1260.6842	9	77	87	R.VRVELSTGMPPR.R		Oxidation (M)
1415.7667	1416.7821	6	77	88	R.VRVELSTGMPPR.S		Oxidation (M)
1256.685	1257.7036	9	88	97	R.SRFDRPPAR.R		
1100.5839	1101.6002	8	89	97	R.SRFDRPPAR.R		
857.4508	858.462	5	91	97	R.FDRPPAR.R		
1015.4835	1016.499	8	98	105	R.RPFPNDR.C		



# Spot 154 (D12 20080606) - RuvB-like 1 (Ruvb1)

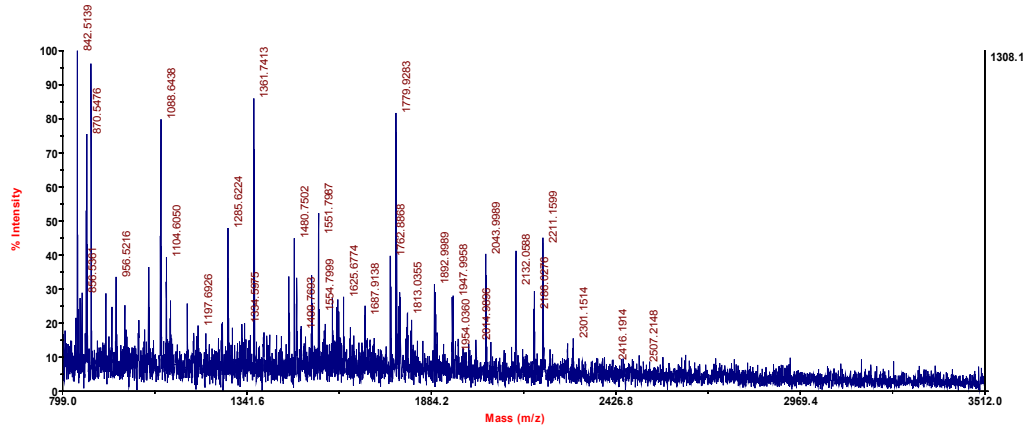
SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 7494] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 673



Spot 154 (20080606-D12) Ruvb1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1299.6531	1300.667	5	34	46	K.QAASGLVGOENAR.E	
1437.7398	1438.7488	1	108	118	K.KTEVLNENFRR.A	
1931.0728	1932.0277	-27	166	182	K.GTKQLKLDPSIFSLQK.E	
1930.0523	1931.032	-14	169	184	K.QLKLDPSIFSLQKER.V	
1560.8147	1561.8115	-7	172	184	K.LDPSIFSLQKER.V	
1733.8836	1734.913	13	185	201	R.VEAGDVIVIEANSQAVK.R	
1889.9647	1890.9897	-1	185	202	R.VEAGDVIVIEANSQAVK.Q	
1686.9304	1687.9316	-4	318	333	R.ALESSIPIVIFASN.R.G	
1947.9902	1948.9852	-6	340	357	R.GTEDITSPHGIPLDLLDR.V	
1754.8947	1755.8873	-8	363	376	R.TMLYTPQEMKQIIK.I	2 Oxidation (M)
2323.1655	2324.1592	-6	379	400	R.AQTEGINISEALNHLGEIGTK.T	
1367.6755	1368.6757	-5	446	456	K.LIADGQDKYMK.-	Oxidation (M)

## Spot 160 (C7 20080606) – Thimet oligopeptidase (Thop1) and/or Probable ATP-dependent RNA helicase DDX4 (Ddx4)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 7593] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 673

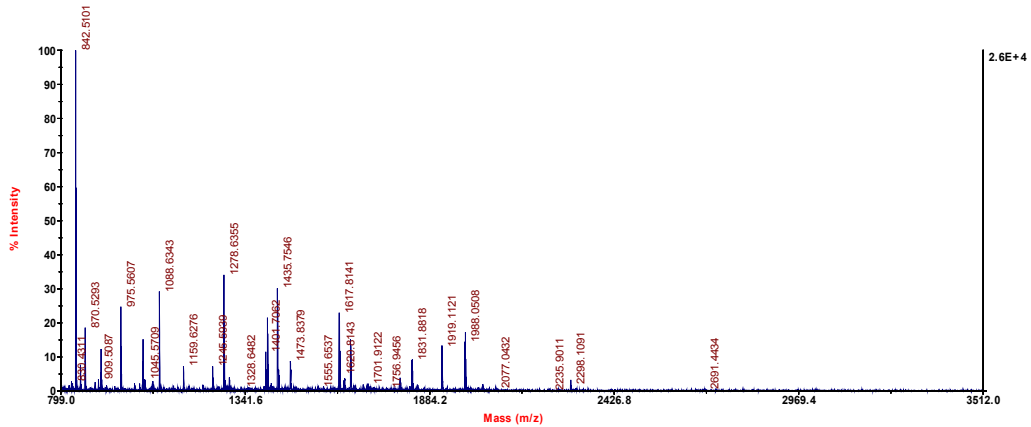


Spot 160 (20080606-C7) Thop1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1115.5723	1116.5919	11	26	34	R.WDLSAQGIR.A	
1786.8261	1787.8387	3	51	66	R.VGAQDFEDVSYESTLK.A	
1463.762	1464.7814	8	67	79	K.ALADVEVYTVQR.N	
1891.9904	1892.9989	1	80	95	R.NILDFQGHVSPNKDIR.A	
1486.6796	1487.7109	16	104	115	K.KLSEFDVEMSMR.Q	Oxidation (M)
1550.794	1551.7987	-2	267	300	K.TSQTVATFLDELAR.K	
1678.889	1679.8962	0	267	301	K.TSQTVATFLDELARK.L	
1196.6877	1197.6926	-2	301	310	R.KLKPLGQER.A	
1284.6173	1285.6224	-2	358	367	K.EYFPMQVYTR.G	Oxidation (M)
2042.9949	2043.9989	-2	401	418	R.DAASGEEIGKLYLDLYPR.E	
1095.5546	1096.5762	13	411	418	K.FYLDLYPR.E	
1345.7215	1346.7361	5	542	553	K.SRQANAGLFNLR.Q	
1102.5883	1103.5961	0	544	553	R.QANAGLFNLR.Q	
2185.0267	2186.0276	-4	560	578	K.VDQVLTQTVDPAEEYAR.L	
1761.8931	1762.8868	-8	643	659	R.TSILRPGGSEDASTMLK.Q	
1777.868	1778.9191	13	643	659	R.TSILRPGGSEDASTMLK.Q	Oxidation (M)

Spot 160 (20080606-C7) Ddx4						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1960.8955	1961.9379	18	97	113	R.GFLNNKFEEDSSGFWK.E	
1624.6754	1625.6774	-3	133	148	R.GGYPDGNDSEASGPFR.R	
1607.8155	1608.7781	-28	194	209	R.GAYKGLNEEVYTGSGK.N	
1087.639	1088.6438	-2	302	311	K.YSIPIVLAGR.D	
2300.2133	2301.1514	-30	324	344	K.TAAFLLPILAHMRDGITASR.F	Oxidation (M)
1360.735	1361.7413	-1	361	371	R.ELINQIYLEAR.K	
1603.8471	1604.8655	7	381	395	R.AVVIYGGTQFGHSIR.Q	
1778.9203	1779.9283	0	461	475	R.QTLFSAITFPPEIQR.L	
869.5698	870.5476	-34	515	521	R.KLVEILR.N	
1761.9063	1762.8868	-16	522	536	R.NIGDERPMVYFVETKK.K	
1777.9033	1778.9191	5	522	536	R.NIGDERPMVYFVETKK.K	Oxidation (M)
1085.5465	1086.5762	21	550	559	K.ISTTSIHGDR.E	
1498.7468	1499.7693	9	550	562	K.ISTTSIHGDR.E	
2131.0596	2132.0598	-3	625	643	R.AISFFDTESDNHLAQPLVK.V	

**Spot 162 (B6 20080606) – mixture of: ATP synthase subunit beta, mitochondrial precursor (Atp5b), ATP synthase beta subunit (Atp5b), Tubulin beta-5 chain (Tubb5), Tubulin beta-2C chain (Tubb2c), Tubulin beta-3 chain (Tubb3), Tubulin beta-2A chain (Tubb2a) and Tubulin beta-2B chain (Tubb2b)**

SUB [4700 Reflector Spec #1 MC=>BC=>MC]BP = 842.5, 41270] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC]BP = 882.6, 21



Spot 162 (20080606-B6) Atp5b (precursor)									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
975.5621	975.562	0	202	212	IGLFGGAGVGK				
975.5621	975.562	0	202	212	IGLFGGAGVGK	73	100		
1038.5942	1038.5979	4	134	143	IPVGPETLGR				
1040.6714	1040.667	-4	481	489	LVPLKETIK				
1040.6714	1040.667	-4	481	489	LVPLKETIK	18	98.277		
1088.635	1088.6351	0	189	198	VVDLLAPYAK	45	99.997		
1088.635	1088.6351	0	189	198	VVDLLAPYAK				
1217.7	1217.6989	-1	199	212	GKIGLFGGAGVGK				
1278.6359	1278.6357	0	110	121	TIAMDGTEGLVR			Oxidation (M)	
1278.6359	1278.6357	0	110	121	TIAMDGTEGLVR	16	97.06	Oxidation (M)	
1401.7042	1401.7065	2	144	155	IMNVGEPIDR			Oxidation (M)	
1406.681	1406.6829	1	226	239	AHGGYSVFAGVGER				
1406.681	1406.6829	1	226	239	AHGGYSVFAGVGER	28	99.829		
1435.7539	1435.7545	0	311	324	FTQAGSEVSALLGR				
1435.7539	1435.7545	0	311	324	FTQAGSEVSALLGR	62	100		
1439.7893	1439.7858	-2	262	294	VALTGLTVAEYFR				
1473.8345	1473.8369	2	213	225	TVLIMELINNAK			Oxidation (M)	
1473.8345	1473.8369	2	213	225	TVLIMELINNAK	13	94.797	Oxidation (M)	
1617.8053	1617.8105	3	265	279	VALVYGGMNEPPGAR			Oxidation (M)	
1617.8053	1617.8105	3	265	279	VALVYGGMNEPPGAR	3	39.566	Oxidation (M)	
1650.9174	1650.9211	2	95	109	LVLEVAQHLGESTVR	24	99.592		
1650.9174	1650.9211	2	95	109	LVLEVAQHLGESTVR				
1796.9574	1796.9711	8	144	159	IMNVGEPIDRGPVK			Oxidation (M)	
1796.9574	1796.9711	8	144	159	IMNVGEPIDRGPVK	4	53.625	Oxidation (M)	
1831.8643	1831.8785	8	407	422	IMDPNIVGSEHYDVAR			Oxidation (M)	
1831.8643	1831.8785	8	407	422	IMDPNIVGSEHYDVAR	12	93.524	Oxidation (M)	
1919.0959	1919.1094	7	125	143	VLDGSAPIKIPVGPETLGR	57	100		
1919.0959	1919.1094	7	125	143	VLDGSAPIKIPVGPETLGR				
1988.0334	1988.0475	7	388	406	AIAEELGIYPAVDPLDSTR	45	99.996		
1988.0334	1988.0475	7	388	406	AIAEELGIYPAVDPLDSTR				
2039.0055	2039.0231	9	463	480	FLSQPFQVAEVFTGHMGK			Oxidation (M)	
2298.074	2298.1057	14	325	345	IPSAVGYQPTLATDMGTMQER			2 Oxidation (M)	

Spot 162 (20080606-B6) Atp5b (precursor)									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
1649.9101	1650.9224	3	95	109	R.LVLEVAQHLGESTVR.T				
1261.6336	1262.6232	-14	110	121	R.TIAMDGTEGLVR.G				
1277.6286	1278.6355	0	110	121	R.TIAMDGTEGLVR.G			Oxidation (M)	
1037.5969	1038.5923	-2	134	143	K.IPVGPETLGR.I				
1400.6969	1401.7062	1	144	155	R.IMNVGEPIDR.G			Oxidation (M)	
1087.6277	1088.6343	-1	189	198	K.VVDLLAPYAK.G				
974.5549	975.5807	-2	202	212	K.IGLFGGAGVGK.T				
1472.8272	1473.8379	2	213	225	K.TVLIMELINNAK.A			Oxidation (M)	
1405.6739	1406.6832	1	226	239	K.AHGGYSVFAGVGER.T				
2075.9833	2077.0432	25	242	259	R.EGNDLYHEMIESGVINLK.D			Oxidation (M)	
1616.7981	1617.8141	5	265	279	K.VALVYGGMNEPPGAR.A			Oxidation (M)	
1438.782	1439.7874	-1	262	294	R.VALTGLTVAEYFR.D				
1434.7467	1435.7546	0	311	324	R.FTQAGSEVSALLGR.I				
2297.0668	2298.1091	15	325	345	R.IPSAVGYQPTLATDMGTMQER.I			2 Oxidation (M)	
1987.0262	1988.0508	9	388	406	R.AIAEELGIYPAVDPLDSTR.I				
1830.857	1831.8818	10	407	422	R.IMDPNIVGSEHYDVAR.G			Oxidation (M)	
2037.9983	2039.0341	14	463	480	R.FLSQPFQVAEVFTGHMGK.L			Oxidation (M)	

Spot 162 (20080606-B6) Atp5b							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1649.9101	1650.9224	3	41	55	R.LVLEVAQHLGESTV.R.T		
1261.6336	1262.6232	-14	56	67	R.TIAMDGTEGLV.R.G		
1277.6286	1278.6355	0	56	67	R.TIAMDGTEGLV.R.G		Oxidation (M)
1918.0888	1919.1121	8	71	89	K.VLDSGAPIKIPVGPETLGR.I		
1037.5869	1038.5923	-2	80	89	K.IPVGPETLGR.I		
1400.6969	1401.7062	1	90	101	R.IMNVGEPIDER.G		Oxidation (M)
1795.9502	1796.9758	10	90	105	R.IMNVGEPIDERGPIK.T		Oxidation (M)
1087.6277	1088.6343	-1	135	144	K.VVDLLAPYAK.G		
1216.6928	1217.7041	3	145	158	K.GGKIGLFGGAGVGK.T		
974.5549	975.5607	-2	148	158	K.IGLFGGAGVGK.T		
1472.8272	1473.8379	2	159	171	K.TVLIMELINNAK.A		Oxidation (M)
1405.6739	1406.6832	1	172	185	K.AHGGYSVYFAGVGER.T		
2075.9633	2077.0432	25	188	205	R.EGNLHYHEMIESGVINLK.D		Oxidation (M)
1616.7961	1617.8141	5	211	225	K.VALTYGGMNEPFGAR.A		Oxidation (M)
1438.782	1439.7874	-1	228	240	R.VALTGLTVAEYFR.D		
1434.7467	1435.7546	0	257	270	R.FTOAGSEYVALLGR.I		
2297.0668	2298.1091	15	271	291	R.IPSAVGYOPTLATDMGTMOER.I		2 Oxidation (M)
1987.0262	1988.0508	9	334	352	R.AIAELGIYPAVDPLDSTSR.I		
1830.857	1831.8818	10	353	368	R.IMDPNIGSEHYDVAR.G		Oxidation (M)
2690.3684	2691.4434	25	379	402	K.SLDQIAILGMDELSEEDKLTYSR.A		Oxidation (M)
2037.9983	2039.0341	14	409	426	R.FLSQPFQVAEYVFTGHMGK.L		Oxidation (M)
1039.6641	1040.665	-6	427	435	K.LVPLKETIK.G		

Spot 162 (20080606-B6) Tubb5							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1300.6299	1301.6589	17	47	58	R.ISVYYNEATGGK.Y		
1630.8236	1631.8336	2	63	77	R.AILVDLEPGTMDSVR.S		Oxidation (M)
1129.588	1130.6001	4	242	251	R.FPGQLNADLR.K		
1158.6219	1159.6276	-1	253	262	K.LAVNMVFPFR.L		Oxidation (M)
1619.8283	1620.8143	-13	263	276	R.LHFFMPGFAPLTSR.G		
1658.8879	1659.8839	-7	283	297	R.ALTVPQLTQGVFDAQ.N		
1038.5862	1039.5927	-1	310	318	R.YLTVAAVFR.G		
1695.8257	1696.8177	-9	337	350	K.NSSYFVEWIPNNVK.T		
1244.586	1245.5939	1	381	390	R.ISEQFTAMFR.R		Oxidation (M)

Spot 162 (20080606-B6) Tubb2c							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1327.6408	1328.6482	0	47	58	R.INVYYNEATGGK.Y		
1616.808	1617.8141	-1	63	77	R.AVLVDLEPGTMDSVR.S		Oxidation (M)
1129.588	1130.6001	4	242	251	R.FPGQLNADLR.K		
1158.6219	1159.6276	-1	253	262	K.LAVNMVFPFR.L		Oxidation (M)
1619.8283	1620.8143	-13	263	276	R.LHFFMPGFAPLTSR.G		
1706.8549	1707.8745	7	283	297	R.ALTVPQLTQGMFDAQ.N		Oxidation (M)
1038.5862	1039.5927	-1	310	318	R.YLTVAAVFR.G		
1695.8257	1696.8177	-9	337	350	K.NSSYFVEWIPNNVK.T		
1244.586	1245.5939	1	381	390	R.ISEQFTAMFR.R		Oxidation (M)

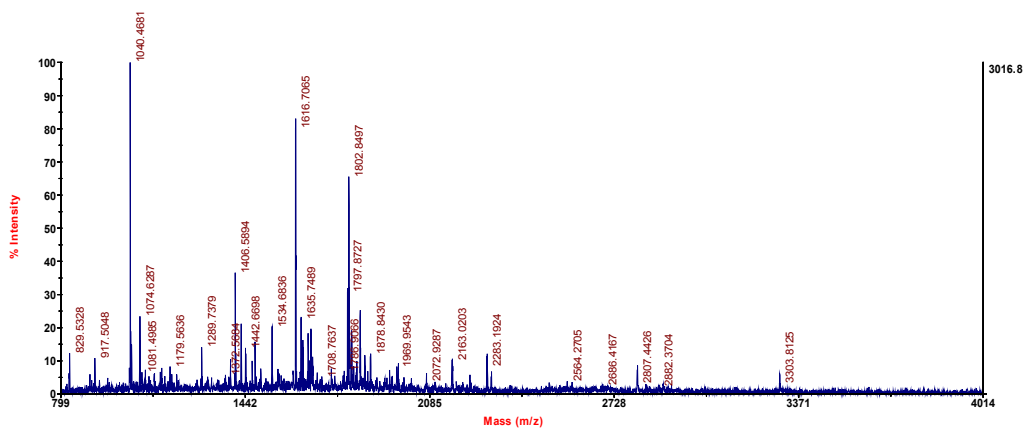
Spot 162 (20080606-B6) Tubb3							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1630.8236	1631.8336	2	63	77	R.AILVDLEPGTMDSVR.S		Oxidation (M)
1129.588	1130.6001	4	242	251	R.FPGQLNADLR.K		
1158.6219	1159.6276	-1	253	262	K.LAVNMVFPFR.L		Oxidation (M)
1619.8283	1620.8143	-13	263	276	R.LHFFMPGFAPLTSR.G		Oxidation (M)
1706.8549	1707.8745	7	283	297	R.ALTVPQLTQGMFDAQ.N		Oxidation (M)
1068.5968	1069.6086	4	310	318	R.YLTVATVFR.G		
1405.6759	1406.6832	0	325	336	K.EVDEQMLAQSK.N		Oxidation (M)
1695.8257	1696.8177	-9	337	350	K.NSSYFVEWIPNNVK.V		
1244.586	1245.5939	1	381	390	R.ISEQFTAMFR.R		Oxidation (M)

Spot 162 (20080606-B6) Tubb2a							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1630.8236	1631.8336	2	63	77	R.AILVDLEPGTMDSVR.S		Oxidation (M)
1350.6676	1351.6962	16	163	174	R.IMNTFSVMPSPK.V		
1129.588	1130.6001	4	242	251	R.FPGQLNADLR.K		
1158.6219	1159.6276	-1	253	262	K.LAVNMVFPFR.L		Oxidation (M)
1619.8283	1620.8143	-13	263	276	R.LHFFMPGFAPLTSR.G		
1706.8549	1707.8745	7	283	297	R.ALTVPQLTQGMFDSK.N		
1695.8257	1696.8177	-9	337	350	K.NSSYFVEWIPNNVK.T		
1244.586	1245.5939	1	381	390	R.ISEQFTAMFR.R		Oxidation (M)

Spot 162 (20080606-B6) Tubb2a							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1630.8236	1631.8336	2	63	77	R.AILVDLEPGTMDSVR.S		Oxidation (M)
1350.6676	1351.6962	16	163	174	R.IMNTFSVMPSPK.V		
1129.588	1130.6001	4	242	251	R.FPGQLNADLR.K		
1158.6219	1159.6276	-1	253	262	K.LAVNMVFPFR.L		Oxidation (M)
1619.8283	1620.8143	-13	263	276	R.LHFFMPGFAPLTSR.G		
1706.8549	1707.8745	7	283	297	R.ALTVPQLTQGMFDSK.N		
1695.8257	1696.8177	-9	337	350	K.NSSYFVEWIPNNVK.T		
1244.586	1245.5939	1	381	390	R.ISEQFTAMFR.R		Oxidation (M)

# Spot 167 (D1 20070719) – predicted: Importin 5 (Ipo5)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 6848] , <<E15\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 88

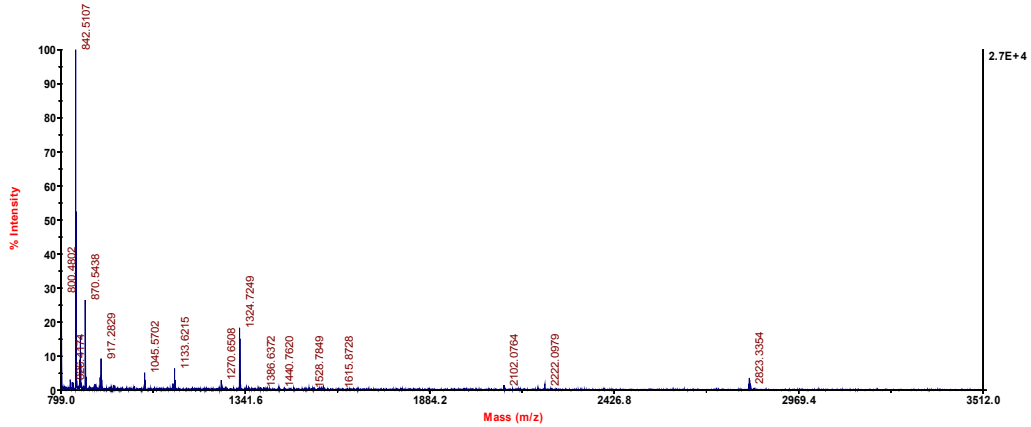


Spot 167 (20070719-D1) Ipo5 (predicted)						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1533.7423	1534.6836	-43	68	80	R.KQAEETYENIPGR.S	
1405.6473	1406.5894	-46	69	80	K.QAEETYENIPGR.S	
1288.7867	1289.7379	-43	81	91	R.SKITFLLOAIR.N	
1073.6597	1074.6287	-36	83	91	K.ITFLLOAIR.N	
961.4465	962.4514	-2	92	100	R.NTTAAEEAR.Q	
916.5164	917.5048	-21	101	108	R.QMAAVLLR.R	Oxidation (M)
1072.6175	1073.5883	-34	101	109	R.QMAAVLLRR.L	Oxidation (M)
1943.9002	1944.8784	-15	132	147	K.SELMIIQMETQSSMR.K	3 Oxidation (M)
2071.9952	2072.9287	-36	132	148	K.SELMIIQMETQSSMRK.K	3 Oxidation (M)
1840.8591	1841.8136	-29	160	175	R.NLIDEGNQQWPEGLK.F	
1615.7664	1616.7065	-42	176	189	K.FLFDVSSQNMGLR.E	Oxidation (M)
1828.9835	1829.928	-34	237	253	R.ATAAFILANEHNVALFK.H	
1674.7494	1675.6906	-39	402	414	K.EHIMQMLQADWVK.Y	2 Oxidation (M)
1993.9138	1994.9261	3	402	416	K.EHIMQMLQADWVKYR.H	2 Oxidation (M)
1785.9043	1786.9066	-3	483	498	K.VIAALLGTMEDGGNQR.V	
1801.8992	1802.8497	-32	483	498	K.VIAALLGTMEDGGNQR.V	Oxidation (M)
1092.6114	1093.5751	-40	529	537	K.HLHSIMVLK.L	Oxidation (M)
1634.8055	1635.7489	-39	568	580	K.FVPYYDLFMPSLK.H	Oxidation (M)
1036.5665	1037.5446	-28	581	589	K.HIVENAVGK.E	
1926.9431	1927.9302	-36	612	627	K.EKFMGDASDVMLLLK.T	2 Oxidation (M)
1637.8157	1638.7701	-32	614	627	K.FMGDASDVMLLLK.T	
1669.8055	1670.7598	-32	614	627	K.FMGDASDVMLLLK.T	2 Oxidation (M)
1810.8998	1811.8496	-32	659	673	K.EFGDYLPLVVMGSLMK.T	2 Oxidation (M)
1818.8202	1819.8508	13	720	734	K.STACQMLVCYAKELK.E	Oxidation (M)
1796.9196	1797.8727	-30	732	746	K.ELKEGFVEYTEQVVK.L	
1426.698	1427.6392	-46	735	746	K.EGFVEYTEQVVK.L	
828.5143	829.5328	14	747	753	K.LMVPLLK.F	Oxidation (M)
1039.4876	1040.4681	-26	754	761	K.FYFHGQVR.V	
2162.0201	2163.0203	-3	797	816	K.AIGTEPDSVLSSEIMHSFAK.C	Oxidation (M)
1441.7313	1442.6698	-48	842	852	K.LEEHFKNQELR.Q	
1494.7718	1495.708	-48	883	895	K.VSDILHSIFSSYK.E	
1751.9094	1752.8333	-48	883	897	K.VSDILHSIFSSYKEK.V	
826.5137	827.5179	-4	1101	1107	K.RLANVVR.Q	

Spot 167 (P1036 sample O090618-01) Ipo5 LCMS/MS (Scaffold)											
Sample Name	Acc No.	Proteins(s) inferred	No. Peptides identified	Sequence Coverage	Position in sequence	Peptide Sequence	Precursor m/z	Charge observed	Calculated mass (neutral)	Mascot score	Mascot Expect value
P1036-0090618-01	ENSRNOP00000014859	ens ENSRNOP00000014859 ENSRNOG00000010989 transcript:ENSRNOT00000014859 Tax_id=10116 [Rattus norvegicus]	32	39.40%	40 - 50	(R)SKITFLLOAIR(N)	430.6	3	1288.79	41.7	3.15E-03
					499 - 505	(K)LQELIQK(G)	436.27	2	870.52	41	2.04E-02
					60 - 67	(R)QMAAVLLR(R)	451.27	2	900.52	46.5	8.49E-03
					843 - 855	(K)YSDILHSIFSSYK(E)	499.27	3	1494.77	35.1	9.98E-02
					42 - 50	(K)ITFLLOAIR(N)	537.84	2	1073.66	84.9	2.88E-07
					42 - 50	(K)ITFLLOAIR(N)	537.84	2	1073.66	58.3	1.23E-04
					529 - 541	(K)FVPPYYDLFMPSLK(H)	540.61	3	1618.81	42.9	1.82E-02
					575 - 588	(K)FMQDASDVMQLLK(T)	546.95	3	1637.81	50.7	3.01E-03
					843 - 857	(K)YSDILHSIFSSYK(V)	584.98	3	1751.91	60.6	2.75E-04
					239 - 249	(K)SLVEIADTVPK(Y)	586.33	2	1170.65	39	3.71E-02
					196 - 212	(R)ATAAFILANEHNVALFK(H)	610.67	3	1828.98	43.6	1.12E-02
					196 - 212	(R)ATAAFILANEHNVALFK(H)	611	3	1829.98	32.2	1.82E-01
					963 - 979	(K)TKENVNATENCISAVGK(I)	612.63	3	1834.87	43	1.41E-02
					176 - 190	(R)MLVQcMODQEHPSIR(T)	624.95	3	1871.83	29.9	1.51E-01
					573 - 588	(K)EKFMDASDVMQLLK(T)	632.66	3	1894.95	40.9	2.75E-02
					91 - 106	(K)SELLMIQMETQSSMR(K)	632.98	3	1895.92	46.5	7.06E-03
					40 - 50	(R)SKITFLLOAIR(N)	645.4	2	1288.79	72.4	2.50E-06
					279 - 297	(R)QLALEVIVLTSETAAAMLR(K)	677.05	3	2028.13	57.6	2.39E-04
					478 - 489	(K)SLIPIYLDNLVK(H)	694.41	2	1386.81	39.7	1.35E-02
					509 - 528	(K)LVLEGVVTSIASVADTAEEK(F)	701.38	3	2101.12	70.5	2.29E-05
					509 - 528	(K)LVLEGVVTSIASVADTAEEK(F)	701.38	3	2101.12	103	1.26E-08
					26 - 39	(K)QAEETENIPGR(S)	703.83	2	1405.65	77.1	3.88E-06
					696 - 707	(K)EGFVEYTEQVVK(L)	714.36	2	1426.7	54.1	1.07E-03
					757 - 776	(K)AIGTEPDSVLEIMHSFAK(C)	716.35	3	2146.03	34.5	9.53E-02
					843 - 855	(K)YSDILHSIFSSYK(E)	748.39	2	1494.77	58.5	4.56E-04
					27 - 39	(R)QAEETENIPGR(S)	767.88	2	1533.74	84.1	1.23E-06
					69 - 90	(R)LLSSAFDEVYPALPSDVQTAIK(S)	788.75	3	2363.23	43.2	1.32E-02
					135 - 148	(K)FLFDSVSSGNMGLR(E)	800.89	2	1599.77	88.4	3.79E-07
					529 - 541	(K)FVPPYYDLFMPSLK(H)	810.41	2	1618.81	41.1	2.75E-02
					363 - 375	(K)EHIMQLGNADWK(Y)	822.39	2	1642.76	72.1	1.17E-05
					575 - 588	(K)FMQDASDVMQLLK(T)	827.91	2	1653.81	90.6	2.68E-07
					68 - 90	(R)LLSSAFDEVYPALPSDVQTAIK(S)	840.78	3	2519.33	49.5	2.23E-03
					499 - 505	(K)LQELIQK(G)	871.53	1	870.52	56.6	5.61E-04
					903 - 923	(K)YAEYFLRPMQLQYVcDSNPEVR(D)	884.41	3	2650.22	39	2.45E-02
					444 - 459	(K)VIAALLQTMEDQGNGR(V)	893.96	2	1785.91	74.2	1.41E-05
					444 - 459	(K)VIAALLQTMEDQGNGR(V)	901.96	2	1801.9	67.9	5.12E-05
					2 - 26	(M)AAAAEQQGFYLLGNLLSPDNVVR(K)	915.15	3	2742.44	50.5	1.86E-03
					196 - 212	(R)ATAAFILANEHNVALFK(H)	915.5	2	1828.98	93.6	1.15E-07
					119 - 134	(R)NLIDEDGNNOVPEGLK(F)	921.44	2	1840.86	71.5	1.66E-05
					573 - 588	(K)EKFMDASDVMQLLK(T)	948.49	2	1894.95	68.9	4.35E-05
					2 - 27	(M)AAAAEQQGFYLLGNLLSPDNVVR(K)	957.85	3	2870.53	58.2	2.39E-04
					509 - 528	(K)LVLEGVVTSIASVADTAEEK(F)	1051.56	2	2101.11	112	1.66E-09
					757 - 776	(K)AIGTEPDSVLEIMHSFAK(C)	1074.02	2	2146.02	85.9	6.74E-07
						(K)TASIKPEVALLDTQDMENMSDDDG					
					635 - 673	WEFVNLGDQQSFGIK(T)	1086.76	4	4343.01	82.2	6.29E-07
					69 - 90	(R)LLSSAFDEVYPALPSDVQTAIK(S)	1182.62	2	2363.23	68.7	3.71E-05
						(K)TQDFNDMEDDDPGISYMISAWAR(M)					
					589 - 612		1425.11	2	2848.2	74.9	1.69E-06
						(K)TASIKPEVALLDTQDMENMSDDDG					
					635 - 673	WEFVNLGDQQSFGIK(T)	1448.67	3	4343	78.5	1.38E-06

## Spot 170 (D3 20080606) Protein phosphatase 2A activator, regulatory subunit 4 (Protein phosphatase 2A, regulatory subunit B (PR 53)) (Ppp2r4)

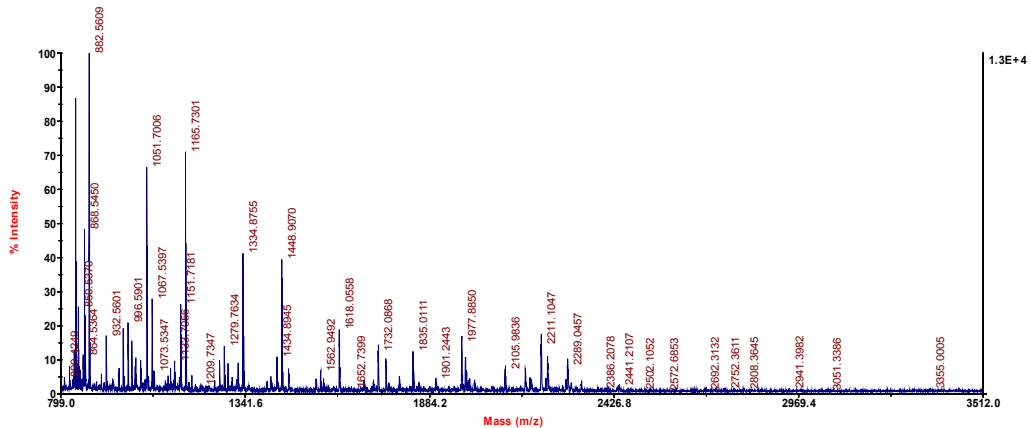
SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 31457] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 67



Spot 170 (20080606-D3) Ppp2r4						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1269.6387	1270.6508	4	28	38	K KEIHTVPDMGK.W	
1439.7231	1440.762	22	29	40	K EIHTVPDMGKWK.R	Oxidation (M)
2101.0732	2102.0764	-2	42	60	R SQAYADYIGFILTLNEGK.G	
913.4909	914.4992	1	63	69	K KLTFDYK.V	
1127.655	1128.6689	6	77	86	K LVALLDLDR.W	
854.4399	855.4559	10	100	106	R FGNKAYR.T	
1132.6128	1133.6215	1	174	183	R VDDQVANFK.V	
1342.6703	1343.6556	-16	184	193	K VFDRYLEVMR.K	Oxidation (M)
825.4055	826.4174	6	188	193	R YLEVMR.K	Oxidation (M)
953.5004	954.5139	6	188	194	R YLEVMR.K.L	Oxidation (M)
807.4603	808.4556	-15	195	200	K LQKTYR.M	
1323.7187	1324.7249	-1	311	323	K FGSLLPIHPVTSG.-	

## Spot 170 (D11 20080815) - Microtubule-associated protein RP/EB family member 1 (Mapre1)

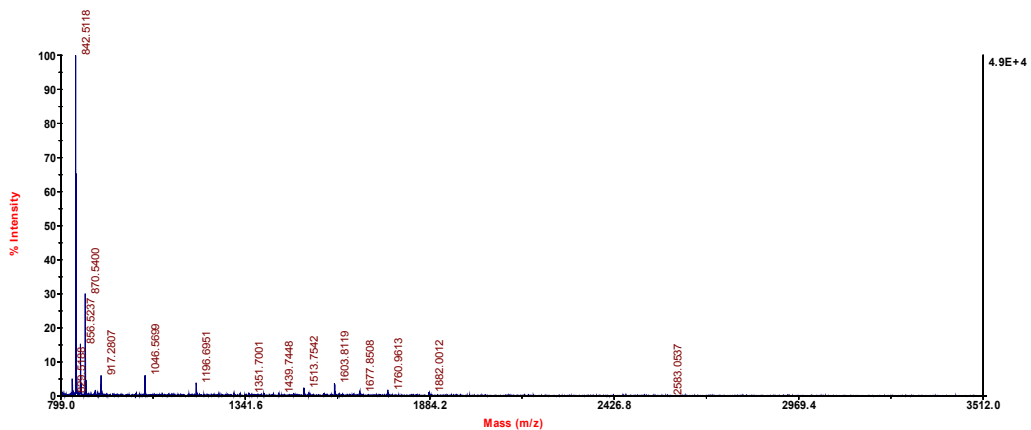
4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 12669]



Spot 170 (20080815-D11) Ppp2r4						
MS+MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	
932.5675	932.5603	-8	77	84	ILIQAGFKR	
1320.6583	1320.6429	-12	67	76	LEHEYIQNFK	
1794.9174	1794.8583	-33	63	76	FQAKLEHEYIQNFK	
1835.0245	1835.0121	-7	151	168	KPLGSGSAAPQRPIATOR	
1835.0245	1835.0121	-7	151	168	KPLGSGSAAPQRPIATOR	
1977.8977	1977.8853	-6	114	130	FFDANYDGKEYDPVAAR	10 94.941
1977.8977	1977.8853	-6	114	130	FFDANYDGKEYDPVAAR	
1992.1124	1992.0796	-16	131	150	QGQETAVAPSLVAPALSKPK	
2163.9644	2163.9788	7	182	201	KNPGMGNGDDEAAELMQQVK	2 Oxidation (M)

# Spot 174 (B13 20080606) - Septin-2 (Sept2)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 64994] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 21

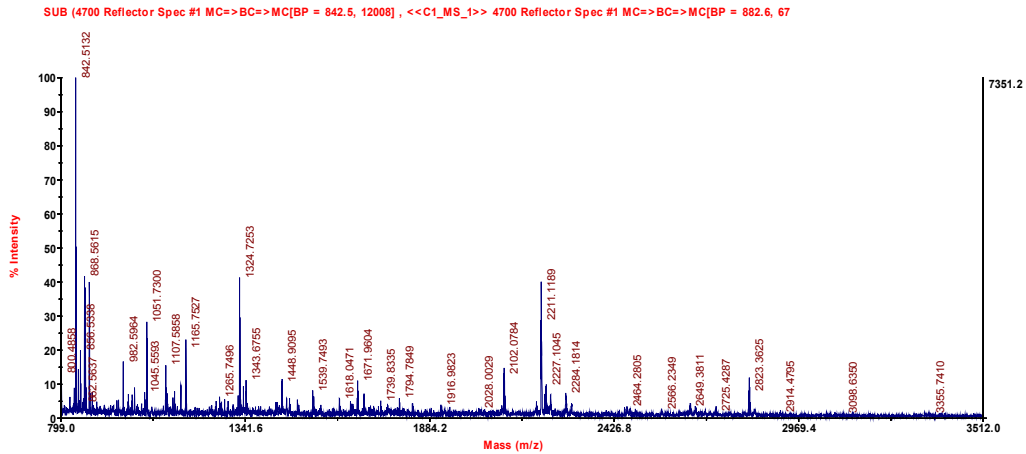


Spot 174 (20080606-B13) Sept2						
MS+MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
858.493	858.5201	32	319	325	DQILLEK	
952.6189	952.6111	-8	175	183	VNIYVPIAK	
1046.5841	1046.5691	-14	184	192	ADTLTKER	0
1046.5841	1046.5691	-14	184	192	ADTLTKER	0
1196.6997	1196.698	-1	67	77	IIPGAAEKIER	
1196.6997	1196.698	-1	67	77	IIPGAAEKIER	26
1325.6947	1325.6918	-2	199	209	ILDEIEHSIK	
1513.7533	1513.7513	-1	117	126	TIISYIDEQFER	
1513.7533	1513.7513	-1	117	126	TIISYIDEQFER	19
1603.8174	1603.8112	-4	78	91	TVQIEASTVEIEER	
1603.8174	1603.8112	-4	78	91	TVQIEASTVEIEER	29
1677.8442	1677.8506	4	97	112	LTVVDTPGYGDAINSR	26
1677.8442	1677.8506	4	97	112	LTVVDTPGYGDAINSR	99.704
1759.9589	1759.9509	-5	233	249	ASIPFSVVGSNQLIEAK	
1759.9589	1759.9509	-5	233	249	ASIPFSVVGSNQLIEAK	
1881.9956	1882.0024	4	51	66	STLINSFLTDLYPER	
1881.9956	1882.0024	4	51	66	STLINSFLTDLYPER	

Spot 174 (20080606-B13) Sept2						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
1880.9884	1882.0012	3	51	66	K.STLINSFLTDLYPER.I	
1196.6924	1196.6951	-4	67	77	R.IIPGAAEKIER.T	
1602.8101	1603.8119	-3	78	91	R.TVQIEASTVEIEER.G	
1886.9949	1887.9987	-2	78	94	R.TVQIEASTVEIEERGVK.L	
1676.837	1677.8508	4	97	112	R.LTVVDTPGYGDAINSR.D	
1512.746	1513.7541	1	117	126	K.TIISYIDEQFER.Y	
1045.5768	1046.5699	-13	184	192	K.ADTLTKER.E	
1324.6874	1325.6821	-9	199	209	R.ILDEIEHSIK.I	
1758.9516	1759.9485	-6	233	249	K.ASIPFSVVGSNQLIEAK.G	
909.4048	910.4039	-9	332	338	R.MQEIAR.M	2 Oxidation (M)



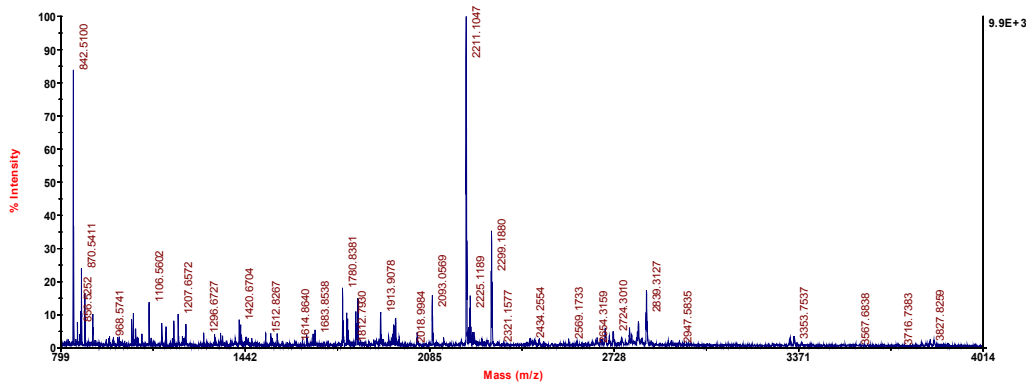
# Spot 177 (C11 20080606) Protein phosphatase 2A activator, regulatory subunit 4 (Protein phosphatase 2A, regulatory subunit B (PR 53)) (Ppp2r4)



Spot 177 (20080606.C11) Ppp2r4									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
2238.1056	2239.1313	8	7	27	R.QPPDSEETPSATPTFIIPK				
2101.0732	2102.0784	-1	42	60	R.SQAYADYIGFILTLNEGK				
2286.1896	2287.2009	2	42	62	R.SQAYADYIGFILTLNEGK				
1669.8927	1670.8972	-2	63	76	K.KLTFDYKVSEAIK				
1541.7977	1542.7842	-13	64	76	K.LTFDYKVSEAIK				
1127.655	1128.6617	0	77	86	K.LVALLDLDR				
2648.381	2649.3811	-3	77	99	K.LVALLDLDRWIDETPPVDQPSR				
1538.7365	1539.7493	4	87	99	R.WIDETPPVDQPSR				
1670.972	1671.9604	-11	169	183	K.IGVLRVDDQVAVFK				
1132.6128	1133.6317	10	174	183	R.VDDQVAVFK				
1649.8777	1650.8804	-3	174	187	R.VDDQVAVKVFDR				
2441.2777	2442.1736	-46	174	193	R.VDDQVAVKVFDRYLEVMR				
1342.6703	1343.6755	-2	184	193	K.VFDRYLEVMR			Oxidation (M)	
1470.7653	1471.7703	-2	184	194	K.VFDRYLEVMR			Oxidation (M)	
1014.5651	1015.5699	-2	303	310	K.FPVIQHF				
1323.7187	1324.7253	0	311	323	K.FGSLPIHPVTSG				

# Spot 180 (D21 20070719) – Protein disulfide-isomerase (P4hb, Pdia1)

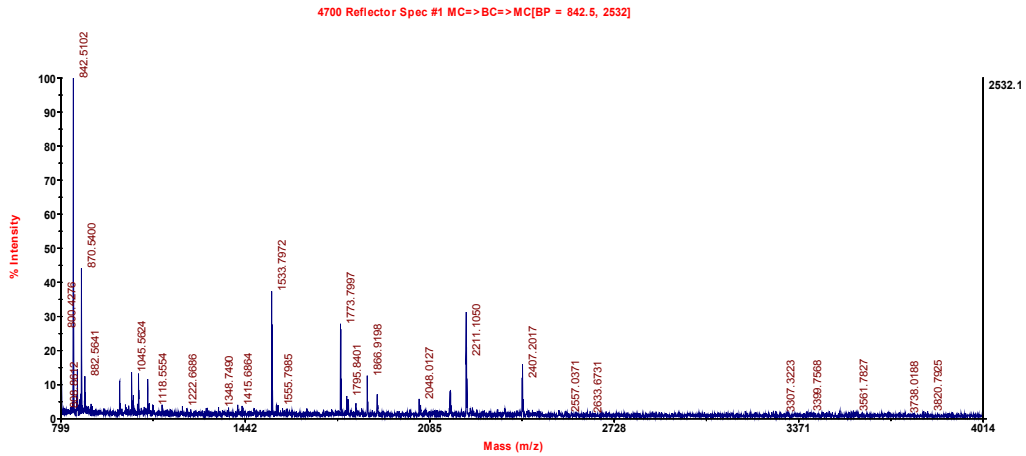
4700 Reflector Spec #1 MC=>BC=>MC[BP = 2212.1, 9891]



Spot 180 (20070719-D21) P4hb, Pdia1						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
910.4417	910.442	0	447	454	FFPASADR	
1424.7783	1424.7697	-6	198	209	YQLDKDGVVLFK	
1552.8733	1552.8718	-1	198	210	YQLDKDGVVLFK	
1655.766	1655.7738	5	211	224	FDEGRNDFEGETK	
1780.8348	1780.834	0	84	99	VDATEESDLAQYGVGR	
1780.8348	1780.834	0	84	99	VDATEESDLAQYGVGR	
1833.913	1833.9158	2	268	302	ILFIFIDSDHTDNQR	6
1833.913	1833.9158	2	268	302	ILFIFIDSDHTDNQR	77.98
1912.9034	1912.9113	4	211	226	FDEGRNDFEGETK	
1957.9402	1957.9503	5	447	463	FFPASADRTVIDYNGER	
1965.0439	1965.045	1	233	249	HNQLPLVIEFTEQTAPK	
1965.0439	1965.045	1	233	249	HNQLPLVIEFTEQTAPK	
2093.0508	2093.0537	1	81	99	LAKVDATEESDLAQYGVGR	
2093.0508	2093.0537	1	81	99	LAKVDATEESDLAQYGVGR	
2219.1013	2219.1096	4	427	446	MDSTANEVEAVKVSFPTLK	Oxidation (M)
2709.4609	2709.3352	-46	233	256	HNQLPLVIEFTEQTAPKIFGGEIK	
2752.415	2752.3369	-28	81	105	LAKVDATEESDLAQYGVGRGYPTIK	

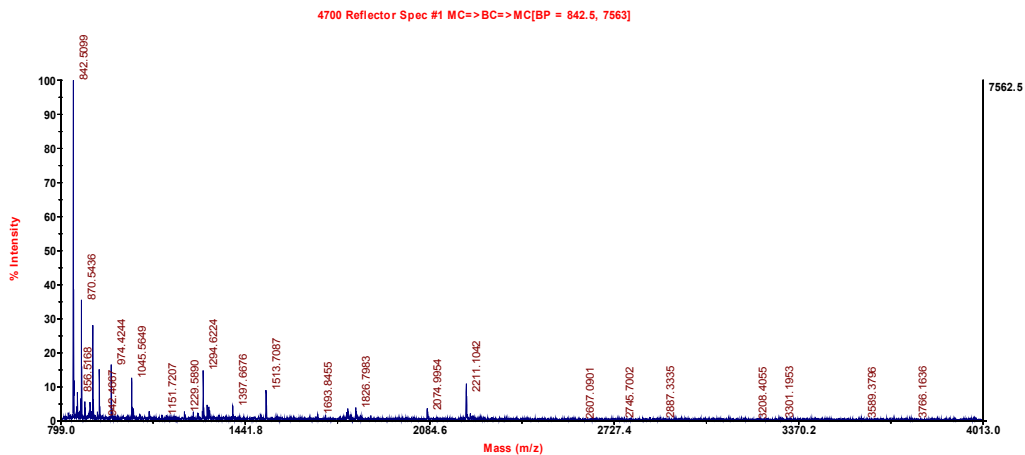
Spot 180 (20070719-D21) P4hb, Pdia1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
1001.5505	1002.5637	6	72	80	KLKAEGSEIR.L	
2092.0436	2093.0566	3	81	99	R.LAKVDATEESDLAQYGVGR.G	
1779.8275	1780.838	2	84	99	K.VDATEESDLAQYGVGR.G	
2439.1918	2440.156	-18	84	105	K.VDATEESDLAQYGVGRGYPTIK.F	
3715.7952	3716.738	-17	135	172	R.TGPAATLSDTAAASLVDSSEVTYIGFFKDAQSDSAK.Q	
2683.3381	2684.3135	-12	173	197	K.QFLAAEAVDDIPFGITSNSDVF.SK.Y	
1423.7711	1424.7665	-8	198	209	K.YQLDKDGVVLFK.K	
1654.7587	1655.774	5	211	224	K.FDEGRNDFEGETK.E	
1307.6357	1308.6401	-2	216	226	R.NNDFEGETK.L	
1964.0367	1965.0511	4	233	249	K.HNQLPLVIEFTEQTAPK.I	
2708.4537	2709.3306	-48	233	256	K.HNQLPLVIEFTEQTAPKIFGGEIK.T	
1090.6695	1081.6775	1	257	265	K.THILLFLPK.S	
2018.0221	2018.9983	-15	266	302	K.GKILFIDSDHTDNQR.I	
1832.9057	1833.9185	3	268	302	K.ILFIFIDSDHTDNQR.I	
965.5596	966.5642	-2	303	310	R.ILEFFGLK.K	
1221.6162	1222.6284	4	319	328	R.LITLLEEMTK.Y	Oxidation (M)
1408.6722	1409.6929	10	329	340	K.YKPESDELTAEK.I	
2453.2362	2454.2554	5	353	372	K.IKPHLMSQELPEDWDKQPVK.V	Oxidation (M)
1226.5455	1227.5577	4	378	387	K.NFEEVAFDEK.K	
1354.6405	1355.6542	5	378	388	K.NFEEVAFDEK.N	
1728.9046	1729.9224	6	412	426	K.LGETYKDHENIVAK.M	
2218.094	2219.1128	5	427	446	K.MDSTANEVEAVKVSFPTLK.F	Oxidation (M)
927.5178	928.5508	28	439	446	K.VHSFPTLK.F	
909.4345	910.442	0	447	454	K.FFPASADR.T	
1956.933	1957.9537	7	447	463	K.FFPASADRTVIDYNGER.T	
1065.5091	1066.528	11	455	463	R.TVIDYNGER.T	

# Spot 187 (D17 20070719) – Alpha-centractin (Actr1a)



Spot 187 (20070719-D17) Actr1a						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1002.5134	1003.5367	16	23	32	K.AGFAGDQIPK.Y	
1532.7909	1533.7972	-1	47	61	R.VMAGALEGDIFIGPK.A	Oxidation (M)
2155.0732	2156.1138	15	47	66	R.VMAGALEGDIFIGPKAEEHR.G	Oxidation (M)
1088.5325	1089.5431	3	73	81	R.YPMEHGIVK.D	Oxidation (M)
2050.8877	2051.8726	-11	73	88	R.YPMEHGIVKDWNDMER.I	2 Oxidation (M)
1100.5938	1101.5892	-11	183	192	R.IDIAGRIVSR.F	
1900.8643	1901.8918	0	200	215	R.KEGYDFHSSSEFEIVK.A	
1772.7893	1773.7997	2	201	215	K.EGYDFHSSSEFEIVK.A	
1865.9159	1866.9198	-2	239	255	K.AGYLPGSTIEIGPSR.F	
1068.604	1069.6195	8	328	336	K.IRISAPQER.L	
799.4188	800.4276	2	330	336	R.ISAPQER.L	

# Spot 188 (E1 20070719) – Proliferating cell nuclear antigen (Pcna)

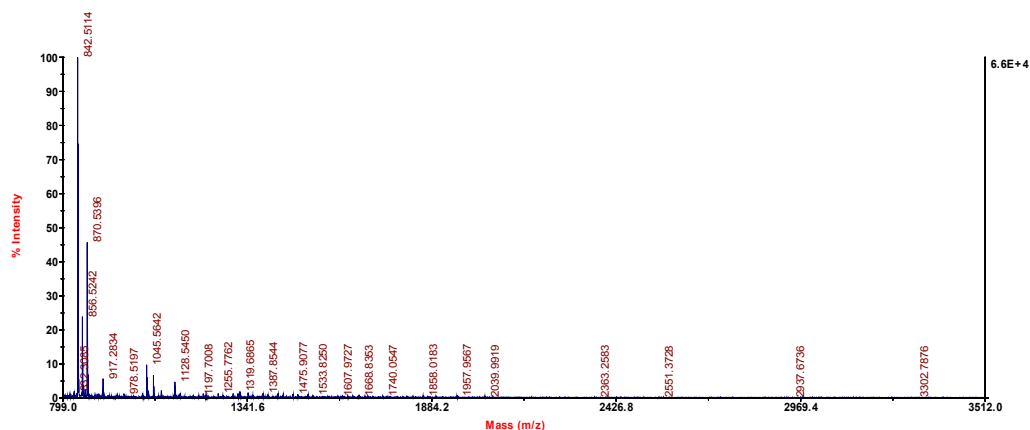


Spot 188 (20070719.E1) Pcna							
MS•MS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
900.4607	900.4645	4	241	248	IADMGHLK		Oxidation (M)
910.4067	910.4077	-1	139	146	MPSGEFAR		Oxidation (M)
910.4067	910.4077	-1	139	146	MPSGEFAR		Oxidation (M)
932.4875	932.4891	2	211	217	YLNFFTK		
932.4875	932.4891	2	211	217	YLNFFTK	27	99.792
974.4213	974.4222	1	54	61	SEGFDTYR	5	63.494
974.4213	974.4222	1	54	61	SEGFDTYR		
1293.6433	1293.6249	-14	169	181	FSASGELGNGNIK		
1397.6763	1397.6659	-7	65	77	NLAMGVNLTSMISK		2 Oxidation (M)
1513.7057	1513.7073	1	249	261	YYLAPKIEDEEGS		
1513.7057	1513.7073	1	249	261	YYLAPKIEDEEGS	0	0
1719.9496	1719.9065	-25	65	80	NLAMGVNLTSMISKILK		
2074.9927	2074.991	-1	92	110	AEDNADTLALVFEAPNQEK	14	95.988
2074.9927	2074.991	-1	92	110	AEDNADTLALVFEAPNQEK		

Spot 188 (20070719.E1) Pcna							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
973.4141	974.4244	3	54	61	R_SEGFDTYR_C		
1796.8219	1797.8129	-9	62	77	R_CDRNLAMGVNLTSMISK_I		
1828.8117	1829.8138	-3	62	77	R_CDRNLAMGVNLTSMISK_I		2 Oxidation (M)
1364.6792	1365.6415	-33	65	77	R_NLAMGVNLTSMISK_I		
1396.669	1397.6676	-6	65	77	R_NLAMGVNLTSMISK_I		2 Oxidation (M)
1718.9423	1719.9095	-23	65	80	R_NLAMGVNLTSMISKILK_C		
2073.9854	2074.9954	1	92	110	R_AEDNADTLALVFEAPNQEK_V		
893.4065	894.4213	8	139	146	K_MPSGEFAR_I		
909.4014	910.4088	0	139	146	K_MPSGEFAR_I		Oxidation (M)
1292.6361	1293.6304	-10	169	181	K_FSASGELGNGNIK_L		
931.4803	932.4893	2	211	217	R_YLNFFTK_A		
899.4535	900.4644	4	241	248	K_IADMGHLK_Y		Oxidation (M)
1512.6984	1513.7087	2	249	261	K_YYLAPKIEDEEGS_-		

# Spot 192 (C10 20080606) - Mu-chrySTALLIN homolog (CryM)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 71155] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 67

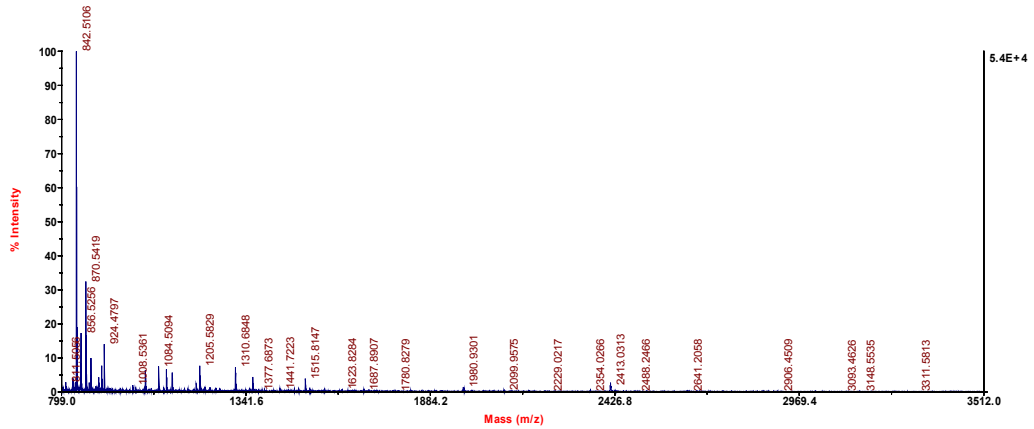


Spot 192 (20080606-C10) Crym							
MS•MS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1050.5579	1050.5555	-2	242	250	QAVLYVDSR	9	87.734
1050.5579	1050.5555	-2	242	250	QAVLYVDSR		
1065.5323	1065.5336	1	176	185	FASSVQGDVR		
1065.5323	1065.5336	1	176	185	FASSVQGDVR	9	87.096
1088.6422	1088.6429	1	118	128	RTAAVSAIATK		
1088.6422	1088.6429	1	118	128	RTAAVSAIATK		
1128.5466	1128.5472	1	37	47	GPDGGVMQPVR		Oxidation (M)
1128.5466	1128.5472	1	37	47	GPDGGVMQPVR	11	92.062
1141.5524	1141.5577	5	304	313	LVYDSWSSGK		
1319.6875	1319.6869	0	291	303	SLGMAVEDLVAAK		Oxidation (M)
1319.6875	1319.6869	0	291	303	SLGMAVEDLVAAK		Oxidation (M)
1636.7925	1636.793	0	171	185	ENAEKFASSVQGDVR		
1668.834	1668.8275	-4	4	18	APAFLSADEVQDHLR		
1858.032	1858.0294	-1	19	36	SSSLIPPLEAALANFSK		
1896.0146	1895.9785	-19	266	303	TTVFKSLGMAVEDLVAAK		Oxidation (M)
1957.9575	1957.9514	-3	57	75	GFLGVMPAYSAEDALTTK		Oxidation (M)
2039.9954	2039.9926	-1	234	250	ELDDELMKQAVLYVDSR		Oxidation (M)

Spot 192 (20080606-C10) Crym							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
1667.8267	1668.8353	1	4	18	R.APAFLSADEVQDHLR.S		
1857.0247	1858.0183	-7	19	36	R.SSSLIPPLEAALANFSK.G		
1127.5394	1128.545	-1	37	47	K.GPDGGVMQPVR.T		Oxidation (M)
1956.9503	1957.9567	0	57	75	R.GFLGVMPAYSAEDALTTK.L		Oxidation (M)
1087.6349	1088.6405	-2	118	128	K.RTAAVSAIATK.F		
931.5338	932.5331	-9	119	128	R.TAAVSAIATK.F		
1635.7852	1636.8014	5	171	185	R.ENAEKFASSVQGDVR.V		
1064.5251	1065.5341	2	176	185	K.FASSVQGDVR.V		
2038.9881	2039.9919	-2	234	250	R.ELDDELMKQAVLYVDSR.E		Oxidation (M)
1049.5506	1050.5554	-2	242	250	K.QAVLYVDSR.E		
1895.0074	1895.9846	-16	266	303	K.TTVFKSLGMAVEDLVAAK.L		Oxidation (M)
1318.6802	1319.6865	-1	291	303	K.SLGMAVEDLVAAK.L		Oxidation (M)
1140.5451	1141.5593	6	304	313	K.LVYDSWSSGK.-		

## Spot 201 (C15 20080606) – Splicing factor 3a, subunit 3 [Mus musculus] (Sf3a3)

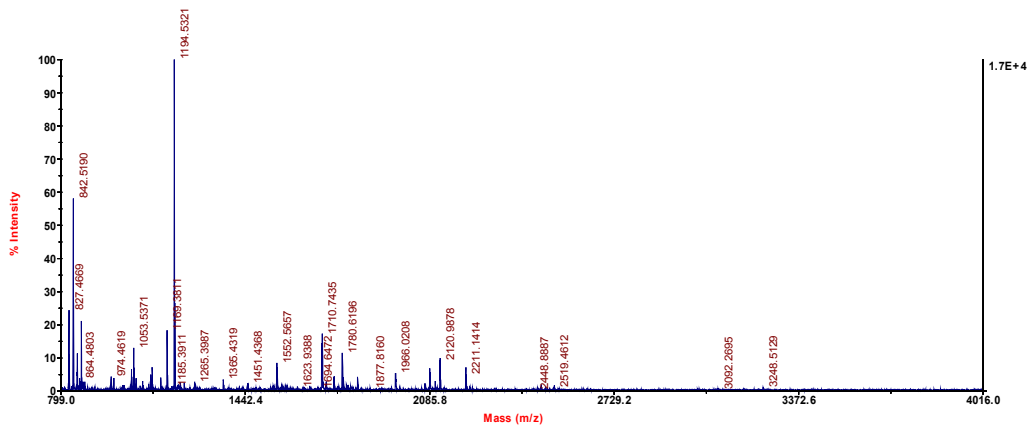
SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 58733] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 67



Spot 201 (20080606-C15) Sf3a3						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1171.6309	1172.6293	-8	2	10	M ETILEQORR.Y	
860.414	861.4413	23	10	15	R.RYHEEK.E	
838.3929	839.3997	0	18	24	R.LMDVMAK.E	
1440.7069	1441.7223	6	31	42	K.STLRDQINSDHR.T	2 Oxidation (M)
1083.5019	1084.5094	0	50	58	R.YMEVSGNLR.D	Oxidation (M)
1208.5673	1209.5884	11	59	68	R.DLYDDKGLR.K	
2098.9595	2099.9575	-4	70	87	K.EELNAISGNPEFAEFYNR.L	
956.5192	957.53	4	90	96	K.QIKFHR.K	
2412.0353	2413.0312	-5	118	138	R.ENPSEEAQNLFVFTDEEGYGR.Y	
1979.9186	1980.9301	2	185	199	R.YLEMMLLEYLDYDTR.V	Oxidation (M)
1514.8093	1515.8147	-1	200	212	R.VKPLDQGNELFGK.I	
879.4338	880.4443	4	213	219	K.IQTFEKK.K	
1007.5267	1008.5361	0	213	220	K.IQTFEKK.W	
884.5695	885.5754	-1	265	273	K.SALLALGLK.C	
1494.793	1495.7976	-2	290	303	K.GKSLDLSLFAK.N	
1309.6765	1310.6848	1	292	303	K.SLESLSLFAK.N	
1123.5734	1124.5802	0	339	347	R.QLTHENVGR.K	
1251.6664	1252.6731	-2	339	348	R.QLTHENVGRK.Q	
802.445	803.4521	0	418	424	R.GPKAFQR.H	
644.398	645.4119	8	425	430	R.HFAEWR.H	
2353.0346	2354.0266	-6	471	480	R.WQPDTEEEYEDSSGNVNIKK.T	
923.4712	924.4797	1	491	497	K.TYEDLKR.Q	

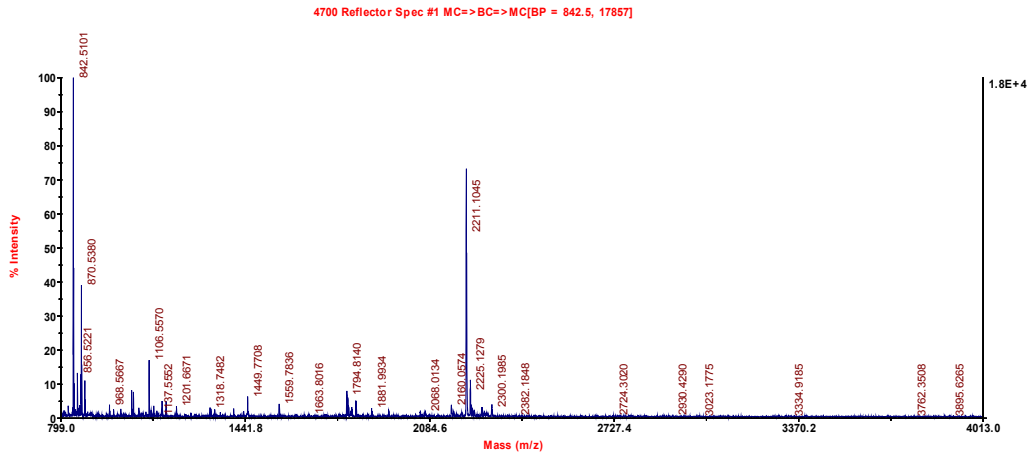
## Spot 201 (D7 20070719) – Heterogeneous nuclear ribonucleoprotein K (Hnrnpk)

4700 Reflector Spec #1 MC=>BC=>MC[BP = 1194.5, 17257]



Spot 201 (20070719-D7) Hnmpk									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
876.4249	876.4186	-7	457	463	QYSGKFF				
1013.4356	1013.4648	29	317	325	GGDLMAYDR			Oxidation (M)	
1014.3832	1014.4172	34	279	286	DYDDMSPR			Oxidation (M)	
1053.6415	1053.652	10	192	201	VVLIGGKPR				
1053.6415	1053.652	10	192	201	VVLIGGKPR				
1105.5208	1105.5552	31	259	268	GGFDRMPPGR			Oxidation (M)	
1169.5367	1169.5696	28	317	326	GGDLMAYDRR	11	96.09	Oxidation (M)	
1169.5367	1169.5696	28	317	326	GGDLMAYDRR				
1194.6993	1194.735	30	306	316	NLPLPPPPPR				
1194.6993	1194.735	30	306	316	NLPLPPPPPR	49	99.999		
1229.6683	1229.6609	-6	248	258	GRPVGFPMRGR				
2121.9653	2121.8572	-46	269	286	GGRPMPSSRRDYDDMSPR			2 Oxidation (M)	
2121.9653	2121.8572	-46	269	286	GGRPMPSSRRDYDDMSPR			2 Oxidation (M)	

# Spot 213 (D6 20070719) – Succinate dehydrogenase [ubiquinone] flavoprotein subunit, mitochondrial precursor (Sdha)

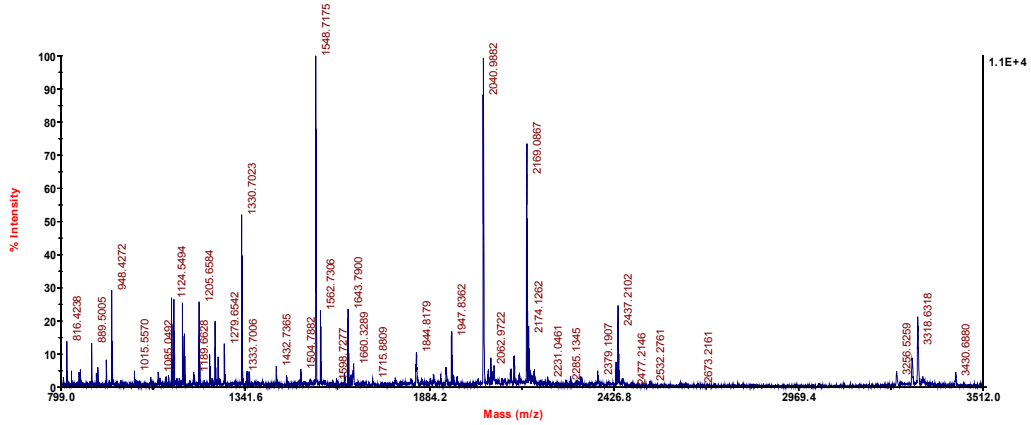


Spot 213 (20070719.D6) Sdha						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1094.5185	1095.5420	16	113	120	R.VHWFYDTVK.G	
1136.5574	1137.5552	-8	155	163	R.TEDGRIYQR.A	
2277.9929	2279.0176	8	181	199	R.CCCVADRTGHSLLHTLYGR.S	
1353.7153	1354.7296	5	188	199	R.TGHSLLHTLYGR.S	
1320.715	1321.7206	-1	241	253	R.AKNTIATGGYGR.T	
1121.5829	1122.583	-6	243	253	K.NTIATGGYGR.T	
2250.9522	2252.063	46	254	274	R.TYFSCTSHTSTGDGTAMVTR.A	
1645.8093	1646.8055	-7	478	492	K.ANAGEESVMNLDKLR.F	
1661.8042	1662.8225	7	478	492	K.ANAGEESVMNLDKLR.F	Oxidation (M)
1751.8447	1752.8514	0	505	519	R.LSMGKSMQSHAAVFR.V	2 Oxidation (M)
1148.5397	1149.5619	13	510	519	K.SMGSHAAVFR.V	Oxidation (M)
1399.746	1400.7614	6	531	542	K.VSQLYGDQLHLK.T	
2067.0273	2068.0134	-10	591	607	K.VRIDEYDYSKPIEGGQK.K	
1811.8577	1812.8661	1	593	607	R.IDEYDYSKPIEGGQK.K	
1069.5457	1070.5603	7	608	615	K.KPFAEHWK.K	
1197.6407	1198.6654	15	608	616	K.KPFAEHWK.H	
1317.7292	1318.7462	9	629	639	K.VTLDIRPVVDK.T	



# Spot 218 (D1 20080606) – mixture of: 14-3-3 zeta/delta (Ywhaz) and 14-3-3 protein gamma (Ywhag)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 1548.7, 10727] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 6

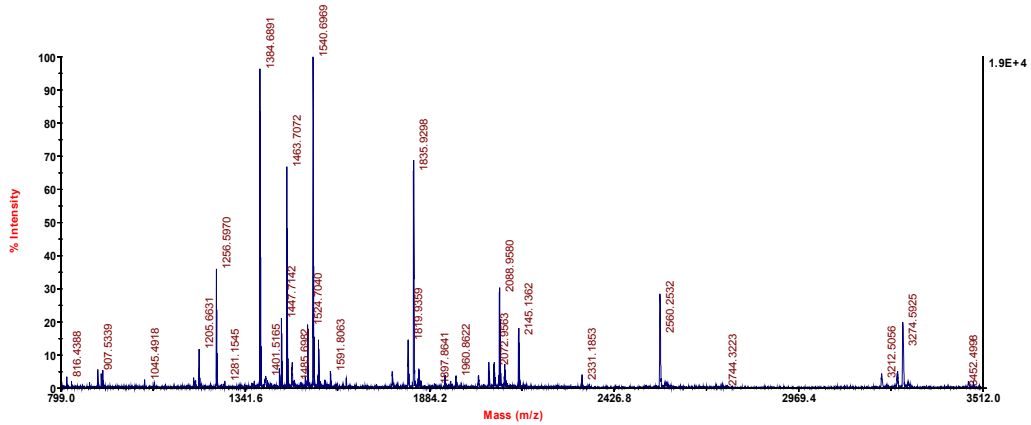


Spot 218 (20080606-D1) Ywhaz						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
1014.5458	1015.557	4	10	18	K.AKLAEQAER.Y	
815.4137	816.4238	4	12	18	K.LAEQAER.Y	
1933.7856	1934.8495	29	12	27	K.LAEQAERYDDMAACMK.S	2 Oxidation (M)
1547.7063	1548.7175	3	28	41	K.SVTEGGAELSNEER.N	
2436.2132	2437.2102	-4	28	49	K.SVTEGGAELSNEERNLLSVAYK.N	
906.5174	907.5287	4	42	49	R.NLLSVAYK.N	
888.4916	889.5005	2	61	68	R.VVSSIEQK.T	
1503.778	1504.7882	2	61	74	R.VVSSIEQKTEGAEK.K	
1631.873	1632.8796	0	61	75	R.VVSSIEQKTEGAEKK.Q	
1329.6928	1330.7023	2	104	115	K.FLIPNASQPESK.V	
1597.7963	1598.7277	-47	116	127	K.VFYLMKMGDYR.Y	Oxidation (M)
931.4222	932.4315	2	121	127	K.MKGDYR.Y	
947.4171	948.4272	3	121	127	K.MKGDYR.Y	Oxidation (M)
1278.6456	1279.6542	1	128	139	R.YLAEVAAGDDKK.G	
3300.615	3301.5815	-12	128	157	R.YLAEVAAGDDKKGVDQSQQAYQEAFEISK.K	
2296.1699	2297.1646	-5	139	158	K.KGVDQSQQAYQEAFEISK.K	
2039.98	2040.9862	0	140	157	K.GVDQSQQAYQEAFEISK.K	
2168.0749	2169.0867	2	140	158	K.GVDQSQQAYQEAFEISK.K	
1235.6445	1236.6598	7	158	167	K.KEMQTPHIR.L	
1251.6394	1252.6476	1	158	167	K.KEMQTPHIR.L	Oxidation (M)
1107.5495	1108.5632	6	159	167	K.KEMQTPHIR.L	
1123.5444	1124.5494	-2	159	167	K.KEMQTPHIR.L	Oxidation (M)
2316.2041	2317.189	-10	168	187	R.LGLALNFSVFYIEILNSPEK.A	
2130.9844	2131.9812	-5	194	212	K.TAFDDAJAELDTLSEESYK.D	
3317.6224	3318.6318	1	194	222	K.TAFDDAJAELDTLSEESYKDSTLMQLLR.D	Oxidation (M)
1188.6536	1189.6628	2	213	222	K.DSTLMQLLR.D	
1204.6485	1205.6584	2	213	222	K.DSTLMQLLR.D	Oxidation (M)

Spot 218 (20080606-D1) Ywhag						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
815.4137	816.4238	4	13	19	R.LAEQAER.Y	
1843.808	1844.8179	1	13	26	R.LAEQAERYDDMAAAMK.N	2 Oxidation (M)
1642.7798	1643.79	2	29	42	K.NVTELNEPLSNEER.N	
2531.2867	2532.2761	-7	29	50	K.NVTELNEPLSNEERNLLSVAYK.N	
906.5174	907.5287	4	43	50	R.NLLSVAYK.N	
902.5073	903.5107	-4	62	69	R.VVSSIEQK.T	
1597.7963	1598.7277	-47	121	132	K.VFYLMKMGDYR.Y	Oxidation (M)
931.4222	932.4315	2	126	132	K.MKGDYR.Y	
947.4171	948.4272	3	126	132	K.MKGDYR.Y	Oxidation (M)
1235.651	1236.6598	1	133	143	R.YLAEVATGEK.R.A	
2376.128	2377.187	22	153	172	K.AYSEAEHSEKHEMQTPHIR.L	Oxidation (M)
1260.6033	1261.6112	0	163	172	K.EHMQTPHIR.L	Oxidation (M)
2129.9641	2130.9656	-3	199	217	K.TAFDDAJAELDTLNEDSYK.D	
3300.6071	3301.5815	-10	199	227	K.TAFDDAJAELDTLNEDSYKDSTLMQLLR.D	
3316.602	3317.5806	-9	199	227	K.TAFDDAJAELDTLNEDSYKDSTLMQLLR.D	Oxidation (M)
1188.6536	1189.6628	2	218	227	K.DSTLMQLLR.D	
1204.6485	1205.6584	2	218	227	K.DSTLMQLLR.D	Oxidation (M)

# Spot 240 (C23 20080606) - 14-3-3 protein epsilon (Ywhae)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 1540.7, 18697] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 6



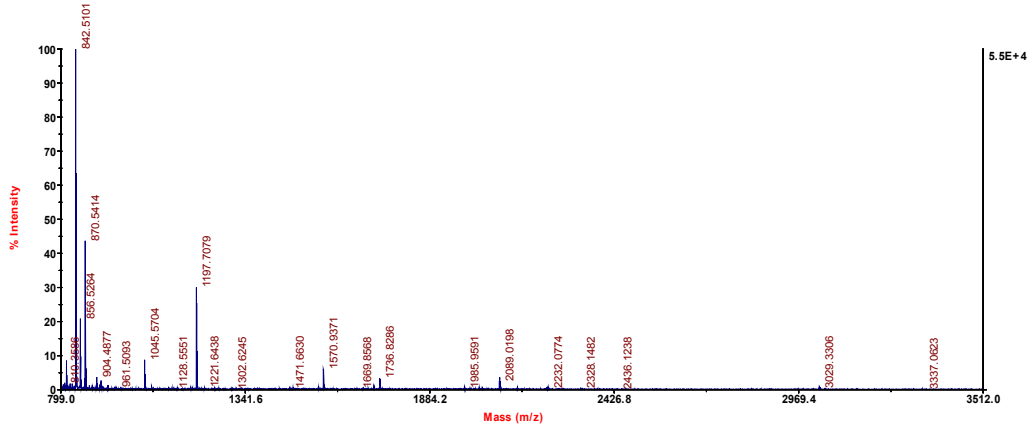
Spot 240 (20080606.C23) Ywhae									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
815.4137	816.4388	22	13	19	K.LAEQAERY				
1927.8655	1928.8673	-3	13	26	K.LAEQAERYDEMVESMK			Oxidation (M)	
1943.8604	1944.8766	5	13	26	K.LAEQAERYDEMVESMK			Oxidation (M)	
1959.8553	1960.8622	0	13	26	K.LAEQAERYDEMVESMK			2 Oxidation (M)	
1574.7974	1575.8132	5	29	42	K.KVAGMDVELTVEER				
1590.7923	1591.8063	4	29	42	K.KVAGMDVELTVEER			Oxidation (M)	
1446.7024	1447.7142	3	30	42	K.VAGMDVELTVEER				
1462.6974	1463.7072	2	30	42	K.VAGMDVELTVEER			Oxidation (M)	
906.5174	907.5339	10	43	50	R.NLLSVAYK				
1516.8725	1517.8828	2	43	56	R.NLLSVAYKNVIGAR				
916.5229	917.5478	19	62	69	R.IISIEQIK				
882.4381	883.4578	14	81	86	K.MIREYR			Oxidation (M)	
1440.6918	1441.7024	2	84	94	R.EYRQMVETELK			Oxidation (M)	
1937.0047	1938.0088	-2	107	123	K.HLPAANTGESKVFYYK				
905.4178	906.4367	13	124	130	K.MKGDYHR				
921.4127	922.4326	14	124	130	K.MKGDYHR			Oxidation (M)	
1255.5833	1256.597	5	131	141	R.YLAEFATGNDR				
1383.6783	1384.6891	3	131	142	R.YLAEFATGNDR				
1193.5928	1194.6115	10	143	153	K.EAAENSLVAYK				
1818.9298	1819.9359	-1	154	170	K.AASDIAMTELPPTHPIR				
1834.9247	1835.9298	-1	154	170	K.AASDIAMTELPPTHPIR			Oxidation (M)	
2330.1947	2331.1853	-7	171	190	R.LGLALNFSVFYYEILNSPDR				
2086.9582	2087.9653	0	187	215	K.AAFDDAJAELDTLSEESYK				
3257.6013	3258.5818	-8	197	225	K.AAFDDAJAELDTLSEESYK				
3273.6962	3274.6925	-3	197	225	K.AAFDDAJAELDTLSEESYK			Oxidation (M)	
1188.8636	1189.865	3	216	225	K.DSTLMQLLR				
1204.6485	1205.6631	6	216	225	K.DSTLMQLLR			Oxidation (M)	
3466.459	3467.4968	9	226	255	R.DNLTWTSDMQGDGEONKEALQDVEDENQ			Oxidation (M)	

Spot 240 (P1014-05) Ywhae											
LCMS/MS (Scaffold)											
Sample Name	Acc. No.	Proteins(s) inferred	No. Peptides identified	Sequence Coverage	Position in sequence	Peptide Sequence	Precursor m/z	Charge observed	Calculated mass (neutral)	Mascot score	Mascot Expect value
P1014-05	P62260	sj P62260 14-3-3 protein epsilon Tax_id=10116 [Rattus norvegicus]	9	32.50%	87 - 94	(R)QMVETELK(L)	489.16	2	976.30	54.9	1.55E-002
					143 - 153	(K)EAAENSLVAYK(A)	597.68	2	1193.35	60.6	3.62E-003
					131 - 141	(R)YLAEFATGNDR(K)	629.08	2	1256.15	51.9	2.62E-002
					245 - 255	(K)EALQDVEDENQ(C)	645.08	2	1288.15	72.4	2.39E-004
					13 - 28	(K)LAEQAERYDEMVESMK(K)	648.86	3	1943.56	44.6	1.35E-001
					13 - 29	(K)LAEQAERYDEMVESMK(V)	686.82	3	2057.43	58.0	6.29E-003
					30 - 42	(K)VAGMDVELTVEER(N)	732.20	2	1462.39	70.6	3.30E-004
					1 - 12	(m)DDREDLVYQAK(L)	762.70	2	1523.39	52.0	2.34E-002
					13 - 28	(K)LAEQAERYDEMVESMK(K)	964.76	2	1927.50	66.8	6.59E-003

Spot 240 [P1014-05 (75062 Rodent)] Ywhae									
LCMS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
1523.6926	762.6622		1	12	-.MDDRRELVYQAK.L	39		Acetyl (Protein N-term)	
1523.6926	762.7012		1	12	-.MDDRRELVYQAK.L	52		Acetyl (Protein N-term)	
1523.6926	762.7227		1	12	-.MDDRRELVYQAK.L	49		Acetyl (Protein N-term)	
1523.6926	762.7391		1	12	-.MDDRRELVYQAK.L	47		Acetyl (Protein N-term)	
1523.6926	763.1816		1	12	-.MDDRRELVYQAK.L	37		Acetyl (Protein N-term)	
1539.6875	770.1812		1	12	-.MDDRRELVYQAK.L	19		Acetyl (Protein N-term); Oxidation (M)	
1539.6875	513.9822		1	12	-.MDDRRELVYQAK.L	29		Acetyl (Protein N-term); Oxidation (M)	
1539.6875	770.6812		1	12	-.MDDRRELVYQAK.L	26		Acetyl (Protein N-term); Oxidation (M)	
1539.6875	771.1996		1	12	-.MDDRRELVYQAK.L	25		Acetyl (Protein N-term); Oxidation (M)	
1927.8655	964.7587		13	26	K.LAEQAERYDEMVESMK.K	57			
1927.8655	964.8182		13	26	K.LAEQAERYDEMVESMK.K	49			
1927.8655	643.8385		13	26	K.LAEQAERYDEMVESMK.K	35			
1943.8604	646.8605		13	26	K.LAEQAERYDEMVESMK.K	45		Oxidation (M)	
1959.8553	654.1422		13	26	K.LAEQAERYDEMVESMK.K	8		2 Oxidation (M)	
2055.9605	514.9177		13	29	K.LAEQAERYDEMVESMK.K.V	35			
2055.9605	686.5392		13	29	K.LAEQAERYDEMVESMK.K.V	47			
2055.9605	686.8182		13	29	K.LAEQAERYDEMVESMK.K.V	58			
2071.9554	691.8405		13	29	K.LAEQAERYDEMVESMK.K.V	32		Oxidation (M)	
1462.6974	732.1996		30	42	K.VAGMDVELTVEER.N	71		Oxidation (M)	
906.5174	454.1381		43	50	R.NLLSVAYK.N	35			
1516.8725	506.8195		43	56	R.NLLSVAYKNVIGAR.R	16			
2144.1324	715.6212		62	80	R.IISSIEQKEENKGGEDKLIK.M	54			
976.4899	489.1581		87	94	R.QMVTETLK.L	55			
992.4848	497.1021		87	94	R.QMVTETLK.L	36		Oxidation (M)	
992.4848	497.6016		87	94	R.QMVTETLK.L	25		Oxidation (M)	
718.369	719.22		119	123	K.VFYFK.M	17			
1255.5833	629.0812		131	141	R.YLAEFATGNDR.K	52			
2559.2605	854.2411		131	153	R.YLAEFATGNDRKEAAENSLVAYK.A	31			
1193.5928	597.6797		143	153	K.EAAENSLVAYK.A	61			
1193.5928	598.1376		143	153	K.EAAENSLVAYK.A	36			
1193.5928	598.1581		143	153	K.EAAENSLVAYK.A	30			
1834.9247	612.5002		154	170	K.AASDIAMTELPPTHPIR.L	19		Oxidation (M)	
1288.5419	645.0402		245	255	K.EALQDVEDENG.-	13			
1288.5419	645.0812		245	255	K.EALQDVEDENG.-	72			

# Spot 242 (C5 20080606) – mixture of: F-actin-capping protein subunit alpha-2 (Capza2) and F-actin capping protein alpha-1 subunit (Capza1)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 69684] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 67



Spot 242 (20080606-C5) Capza2						
MS+MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
815.4522	815.4528	1	98	103	FDHLRK	15
815.4522	815.4528	1	98	103	FDHLRK	97.303
869.5315	869.5419	12	260	266	RQLPVTR	
904.4886	904.488	-1	267	273	TKIDWNIK	12
904.4886	904.488	-1	267	273	TKIDWNIK	94.884
906.4349	906.4688	37	279	286	IGKEMQNA	
1197.6949	1197.7072	10	38	47	LLLNNDLLR	73
1197.6949	1197.7072	10	38	47	LLLNNDLLR	100
2029.0138	2029.0148	0	194	210	IQVHYVEDGNVQLVSHK	

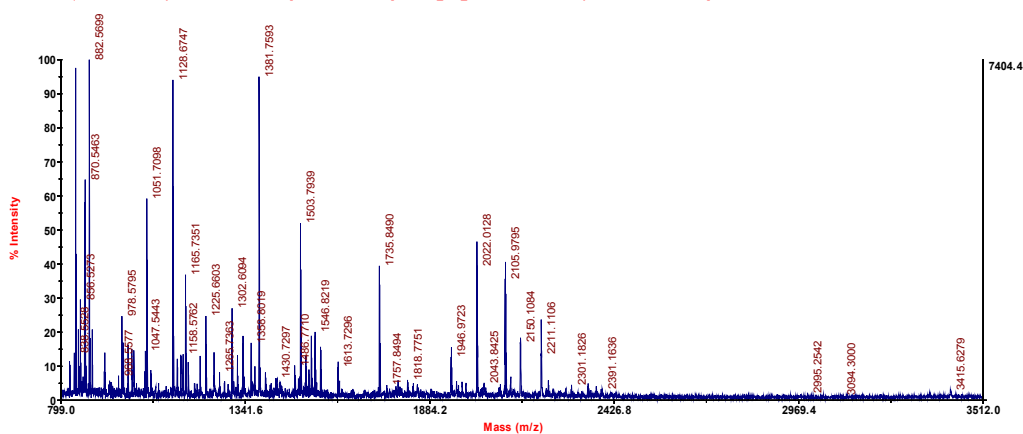
Spot 242 (20080606-C5) Capza2						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
1196.6877	1197.7079	11	38	47	R.LLLNNDLLR.E	
814.445	815.4535	2	98	103	K.FDHLR.K.E	
1984.9353	1985.9591	8	130	146	R.AYVKEHYPNGVCTVYGK.K	
890.4399	891.4515	5	173	178	R.WRSEWKF	
2028.0065	2029.0139	0	194	210	K.IQVHYVEDGNVQLVSHK.D	
868.5243	869.5349	4	260	266	R.RQLPVTR.T	
903.4814	904.4877	-1	267	273	R.TKIDWNIK.I	
905.4276	906.4713	40	279	286	K.IGKEMQNA.-	

Spot 242 (20080606-C5) Capza1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
900.4876	961.5093	15	8	15	R.VSDEEK.VR.I	
2088.0065	2089.0198	3	20	37	K.FITHAPPGEFNEVFNDVRL	
1196.6877	1197.7079	11	38	47	R.LLLNNDLLR.E	
2139.9664	2140.9941	9	48	66	R.EGAAHAFAGYINMDQFTPVK.I	
2230.0502	2231.0654	4	67	86	K.IEGYDDGVLITEHGDGNSR.F	
814.445	815.4535	2	98	103	K.FDHLR.K.E	
1565.7002	1566.7272	13	104	118	K.EASDPQPEDVDGGLK.S	
1984.9126	1985.9591	20	104	121	K.EASDPQPEDVDGGLK.SWR.D	
890.4399	891.4515	5	173	178	R.WRSEWKF	
1569.9131	1570.9371	11	179	193	K.FTITPPTAGVGVK.I	
2028.0065	2029.0139	0	194	210	K.IQVHYVEDGNVQLVSHK.D	
1718.8323	1719.8634	8	211	226	K.DVDSVTYSNEVQTAK.E	
3028.3495	3029.3352	-7	231	256	K.IEESAENEYGTASENYQTMSDTTFK.A	
868.5243	869.5349	4	260	266	R.RQLPVTR.T	
903.4814	904.4877	-1	267	273	R.TKIDWNIK.I	
905.4276	906.4713	40	279	286	K.IGKEMQNA.-	



# Spot 285 (C18 20080606) - Tissue specific transplantation antigen P35B (Tsta3)

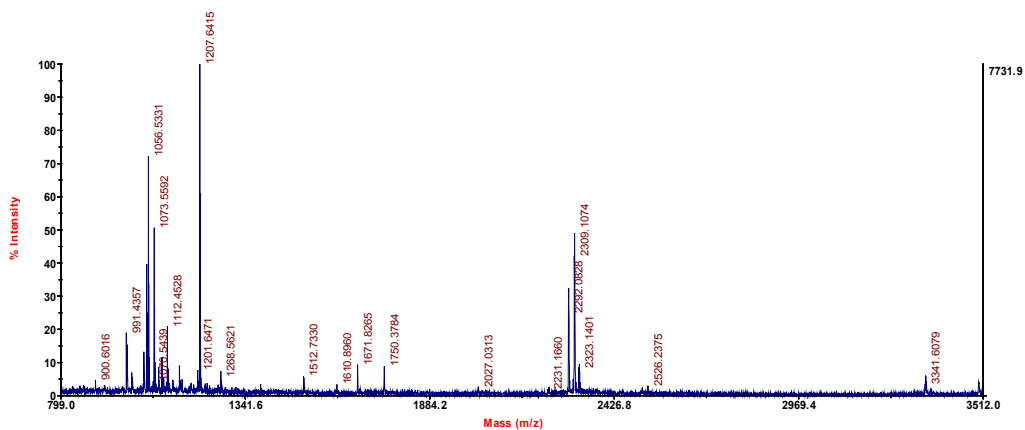
SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 14143] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 67



Spot 285 (20080606-C18) Tsta3						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1127.6663	1128.6747	1	10	21	R.ILVTGGSSLVGR.A	Ion Score
2386.2533	2387.2095	-21	22	44	R.AIQKVVADGAGLPGEWVWFVSSK.D	C.I.%
1945.9786	1946.9723	-7	26	44	K.VVADGAGLPGEWVWFVSSK.D	Modification
1734.8424	1735.849	0	45	60	K.DADLTDAAQTALFQK.V	
1367.6966	1368.7051	-1	79	88	R.NIKYNLDFWR.K	
1012.4767	1013.4888	5	82	88	K.YNLDFWR.K	
1140.5716	1141.5787	0	82	89	K.YNLDFWRK.N	
2021.0079	2022.0128	-1	90	107	K.NVHINDNVLHSAFEVGT.R.K	
2149.1028	2150.1084	-1	90	108	K.NVHINDNVLHSAFEVGT.R.K.V	
1046.5291	1047.5443	8	148	155	K.RMIDVQNR.A	Oxidation (M)
890.428	891.4374	2	149	155	R.MIDVQNR.A	Oxidation (M)
1502.7841	1503.7939	2	200	214	K.SSGSALTVWGTGKPR.R	
1380.7514	1381.7593	0	215	225	R.RQFIYSLDLAR.L	
1224.6503	1225.6603	2	216	225	R.QFIYSLDLAR.L	
946.58	946.5831	-4	226	232	R.LFIWVLR.E	
2390.174	2391.1636	-7	233	253	R.EYNEVEPIILSVGEEDEVSIIK.E	
2348.0366	2349.0815	16	254	275	K.EAAEAVVEAMDFSGEYTFDSTK.S	Oxidation (M)

# Spot 286 (D8 20080606) - Tubulin cofactor A (Tbca)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 1207.6, 7735] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 67



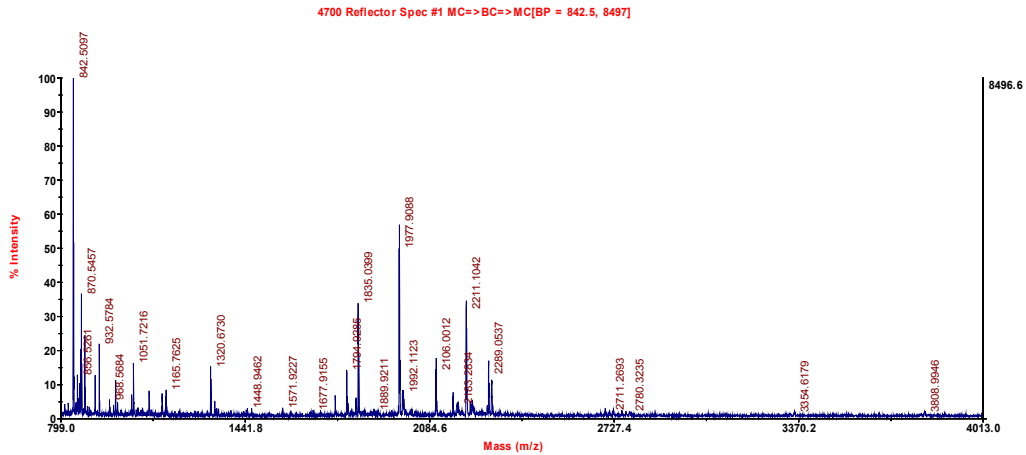
Spot 286 (20080606-D8) Tbca						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1226.671	1229.6184	-49	1	10	-MADPRVRGIK.I	
899.5916	900.6016	3	11	18	K.IKTGVVVK.R.L	Oxidation (M)
1269.6274	1270.5747	-47	22	31	K.EKVMYKEAK.Q	Oxidation (M)
1511.7289	1512.733	-2	40	52	K.MKAEDGENYAIKK.Q	Oxidation (M)
2291.1393	2292.0828	-28	42	61	K.AEDGENYAIKKQAEILQESR.M	
1200.6462	1201.6471	-5	52	61	K.QAEILQESR.M	
1072.5513	1073.5592	1	53	61	K.QAEILQESR.M	
1206.6357	1207.6415	-1	70	79	R.RLEAAYTDLR.Q	
1050.5345	1051.5414	0	71	79	R.LEAAYTDLR.Q	
2308.107	2309.1074	-3	80	98	R.QILESEKDLLEEAEYKEAR.I	
1085.6332	1086.6387	-2	99	108	R.IMLDSVKLEA.-	







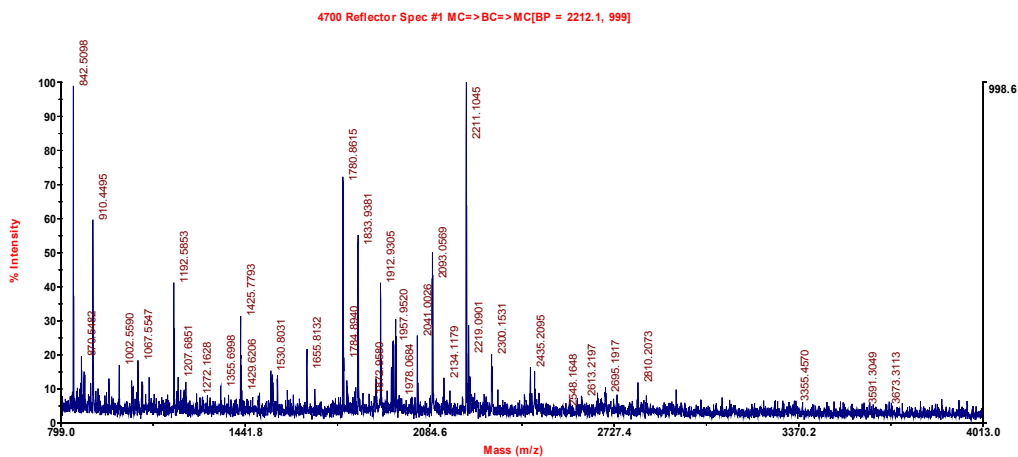
# Spot 302 (E5 20070719) – Microtubule-associated protein RP/EB family member 1 (Mapre1)



Spot 302 (20070719-E5) Mapre1							
MS•MS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
932.5675	932.5753	8	76	83	ILQAGFKR		
932.5675	932.5753	8	76	83	ILQAGFKR		
1045.5465	1045.5662	19	214	221	DFYFGKLR		
1061.505	1061.5457	38	212	219	ERDFYFGK		
1320.6583	1320.668	7	66	75	LEHEYIQNFK	8	88.061
1320.6583	1320.668	7	66	75	LEHEYIQNFK		
1794.9174	1794.9248	4	62	75	FOAKLEHEYIQNFK		
1794.9174	1794.9248	4	62	75	FOAKLEHEYIQNFK	12	94.454
1835.0245	1835.0361	6	150	167	KPLGSGSAAPQRPIATOR		
1835.0245	1835.0361	6	150	167	KPLGSGSAAPQRPIATOR		
1977.8977	1977.9028	3	113	129	FFDANYDGKEYDPVAAR		
1977.8977	1977.9028	3	113	129	FFDANYDGKEYDPVAAR	5	74.882
1988.9963	1989.0118	8	204	219	LTVEDLEKERDFYFGK		
1988.9963	1989.0118	8	204	219	LTVEDLEKERDFYFGK		
1992.1124	1992.1089	-2	130	149	QGQETAVAPSLVAPALSKPK		
2105.9927	2105.998	3	112	129	KFFDANYDGKEYDPVAAR	5	73.21
2105.9927	2105.998	3	112	129	KFFDANYDGKEYDPVAAR		
3808.1191	3808.0178	-27	130	167	QGQETAVAPSLVAPALSKPKKPLGSGSAAPORPIATOR		

Spot 302 (20070719-E5) Mapre1							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
2021.0734	2022.0638	-8	61	76	KVKFOAKLEHEYIQNFK.I		
1793.91	1794.9285	6	63	76	KFOAKLEHEYIQNFK.I		
1319.651	1320.673	11	67	76	KLEHEYIQNFK.I		
931.5603	932.5784	12	77	84	KILQAGFKR.M		
2104.9854	2106.0012	4	113	130	K.KFFDANYDGKEYDPVAAR.Q		
1976.8904	1977.9088	6	114	130	K.FFDANYDGKEYDPVAAR.Q		
1991.1051	1992.1123	0	131	150	R.QGQETAVAPSLVAPALSKPK.K		
1834.0173	1835.0399	8	151	168	K.KPLGSGSAAPQRPIATOR.T		
2018.8673	2019.9552	40	183	201	K.NPQMGNGDDEAAELMQGVK.V		Oxidation (M)
1570.893	1571.9227	14	202	214	K.VLKLTVEDLEKER.D		
1987.9891	1989.0173	11	205	220	K.LTVEDLEKERDFYFGK.L		
1060.4978	1061.5466	39	213	220	K.ERDFYFGK.L		
1044.5393	1045.5695	22	215	222	R.DFYFGKLR.N		

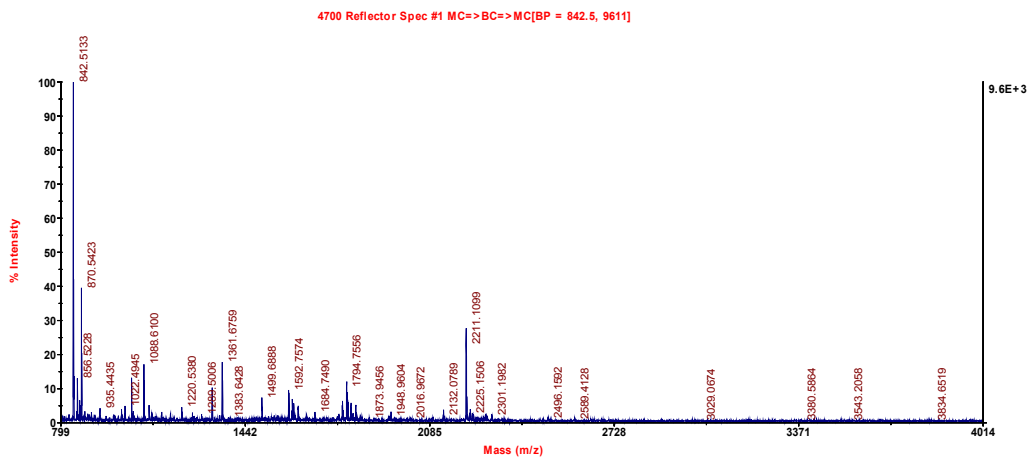
# Spot 307 (D20 20070719) – Protein disulfide-isomerase precursor (P4hb, Pdia1)



Spot 307 (20070719-D20) P4hb, Pdia1									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
910.4417	910.446	5	447	454	FFPASADR				
910.4417	910.446	5	447	454	FFPASADR				
966.5658	966.5798	14	303	310	ILEFFGLK				
1002.5577	1002.555	-3	72	80	LKAEQSEIR				
1066.5164	1066.5223	6	455	463	TVIDYNGER				
1081.6769	1081.6942	16	257	265	THILLFLPK				
1355.6477	1355.6957	35	378	388	NFEVAFDEKK				
1424.7783	1424.804	18	198	209	YQLDKDGVVLFK				
1552.8733	1552.8961	15	198	210	YQLDKDGVVLFK				
1587.8013	1587.8472	29	266	279	SVSDYDGKLSNFKK				
1655.766	1655.8142	29	211	224	FDEGRNFEGETK				
1780.8348	1780.8633	16	84	99	VDATEESDLAQQYGVR				
1780.8348	1780.8633	16	84	99	VDATEESDLAQQYGVR	4	40.068		
1833.913	1833.9404	15	268	302	ILFIFIDSDHTDNQR	15	95.567		
1833.913	1833.9404	15	268	302	ILFIFIDSDHTDNQR				
1912.9034	1912.9344	16	211	226	FDEGRNFEGETKEK				
1912.9034	1912.9344	16	211	226	FDEGRNFEGETKEK				
1957.9402	1957.9553	8	447	463	FFPASADRTVIDYNGER				
1965.0439	1965.0548	6	233	249	HNQLPLVIEFTQTAPK				
2093.0508	2093.0603	5	81	99	LAKVDATEESDLAQQYGVR				
2093.0508	2093.0603	5	81	99	LAKVDATEESDLAQQYGVR	19	98.368		
2219.1013	2219.0928	-4	427	446	MDSTANEVAVKVSFPTLK			Oxidation (M)	
2219.1013	2219.0928	-4	427	446	MDSTANEVAVKVSFPTLK			Oxidation (M)	
2434.2434	2434.2012	-17	353	372	IKPHLMSQELPEDWDKQPVK			Oxidation (M)	
2613.2852	2613.2244	-23	319	340	LITLEEEMTKYKPEDELTAEK			Oxidation (M)	

Spot 307 (20070719-D20) P4hb, Pdia1									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
1001.5505	1002.559	1	72	80	LKAEQSEIR.L				
2092.0436	2093.0569	3	81	99	R.LAKVDATEESDLAQQYGVR.G				
1779.8275	1780.8615	15	84	99	K.VDATEESDLAQQYGVR.G				
1201.5979	1202.6328	23	123	132	R.EADDIVNWLK.K				
1423.7711	1424.8047	18	198	209	K.YQLDKDGVVLFK.K				
1654.7587	1655.8132	29	211	224	K.FDEGRNFEGETK.E				
1964.0367	1965.0522	4	233	249	K.HNQLPLVIEFTQTAPK.I				
1080.6695	1081.698	20	257	265	K.THILLFLPK.S				
1832.9067	1833.9381	14	268	302	K.ILFIFIDSDHTDNQR.I				
965.5566	966.5925	17	303	310	R.ILEFFGLK.K				
1093.6535	1094.6735	12	303	311	R.ILEFFGLK.K.E				
2612.2778	2613.2197	-25	319	340	R.LITLEEEMTKYKPEDELTAEK.I			Oxidation (M)	
1408.6722	1409.7102	22	329	340	K.YKPEDELTAEK.I				
1964.9666	1966.0592	43	353	368	K.IKPHLMSQELPEDWDK.Q				
2433.2362	2434.1958	-20	353	372	K.IKPHLMSQELPEDWDKQPVK.V			Oxidation (M)	
1354.6405	1355.6998	38	378	388	K.NFEVAFDEKK.N				
1728.9046	1729.9167	3	412	426	K.LGETYKHENVIK.M				
2218.094	2219.0901	-5	427	446	K.MDSTANEVAVKVSFPTLK.F			Oxidation (M)	
927.5178	928.5173	-8	439	446	K.VHSFPTLK.F				
909.4345	910.4495	9	447	454	K.FFPASADR.T				
1956.933	1957.952	6	447	463	K.FFPASADRTVIDYNGER.T				
1065.5091	1066.5245	8	455	463	R.TVIDYNGER.T				

# Spot 311 (D5 20070719) – Probable ATP-dependent RNA helicase DDX4 (Ddx4)

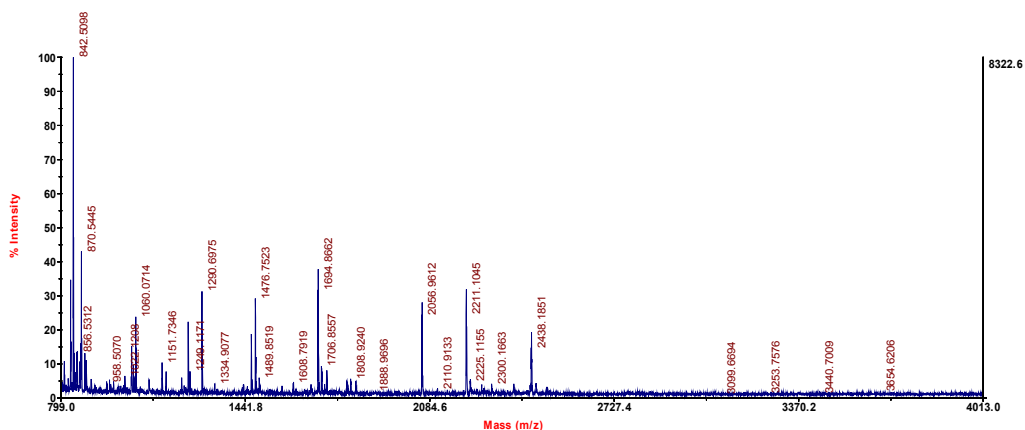


Spot 311 (20070719-D5) Ddx4									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
870.577	870.5404	-42	515	521	KLVEILR				
935.4581	935.4437	-15	565	572	EQALGDFR				
1088.6462	1088.615	-29	302	311	YSIPVLAGR				
1088.6462	1088.615	-29	302	311	YSIPVLAGR				
1220.6018	1220.5472	-45	563	572	EREQALGDFR				
1361.7423	1361.6884	-40	361	371	ELINQIYLEAR				
1361.7423	1361.6884	-40	361	371	ELINQIYLEAR	20	99.081		
1383.647	1383.6567	7	436	447	MLDMGFPEMKK				
1499.7561	1499.7087	-32	550	562	ISTSIHGDTREGR				
1499.7561	1499.7087	-32	550	562	ISTSIHGDTREGR				
1610.7405	1610.7026	-24	173	188	KPAASDSGSGDTFQSR				
1625.6826	1625.6464	-22	133	148	GGYPDGNDSSEASGPFR				
1762.9156	1762.8679	-27	522	536	NIGDERPMVFVETKK				
1779.9276	1779.8959	-18	461	475	QTLFSATFPPEIQR				
1779.9276	1779.8959	-18	461	475	QTLFSATFPPEIQR				
1781.7837	1781.7552	-16	133	149	GGYPDGNDSSEASGPFR				
2132.0659	2132.1204	26	625	643	AISFFDTESDNHLAQPLVK	34	99.962		
2132.0659	2132.1204	26	625	643	AISFFDTESDNHLAQPLVK				

Spot 311 (20070719-D5) Ddx4									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
1496.6049	1497.6663	36	39	53	RTSASSEMEDGPSGR.D				
1624.6754	1625.6217	-38	133	148	RGGYPDGNDSSEASGPFR.R				
1609.7332	1610.6796	-38	188	203	RKPAASDSGSGDTFQSR.S				
1188.5986	1189.5704	-30	213	224	KGLNEEVVTGSQK.N				
1087.639	1088.61	-33	317	326	KYSIPVLAGR.D				
1360.735	1361.6759	-49	376	386	R ELINQIYLEAR.K				
1603.8471	1604.7862	-41	396	410	R AVVIYGGTGFQHSIR.Q				
804.4415	805.4499	1	426	432	R LMDIIGK.E			Oxidation (M)	
1092.5451	1093.4994	-49	442	450	K YLVLEADPR.M				
1105.5148	1106.504	-16	463	472	K LUSCPQMPQSK.E			Oxidation (M)	
1778.9203	1779.8961	-36	476	490	R QTLFSATFPPEIQR.L				
1591.8206	1592.7576	-44	514	527	R DVQGSILQVGOYSK.R				
934.4508	935.4435	-16	580	587	R EQALGDFR.C				
2131.0586	2132.0789	6	640	658	R AISFFDTESDNHLAQPLVK.V				
1021.5193	1022.4946	-31	690	699	R GAVFASVDTR.K				

# Spot 313 (D3 20070719) – Stress-70 protein, mitochondrial precursor (Hspa9)

4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 8323]

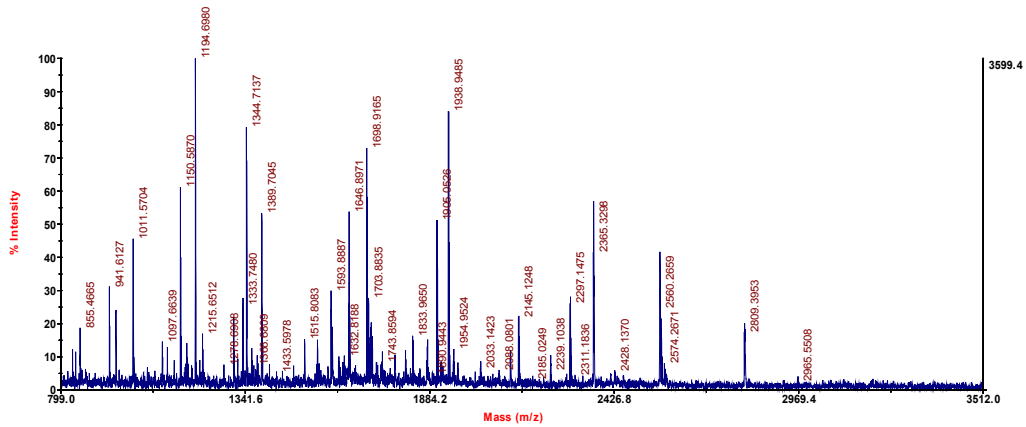


Spot 313 (20070719-D3) Hspa9							
MS•MS/MS							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
887.5131	887.5109	-2	100	107	LVGMPAKR		Oxidation (M)
904.5032	904.502	-1	618	624	MRELLAR		Oxidation (M)
958.4952	958.504	9	77	85	VLENAEGAR		
1045.5387	1045.5636	24	647	654	LFEMAYKK		Oxidation (M)
1056.6312	1056.6444	12	285	292	HMKFKR		
1242.6801	1242.6956	12	207	218	DAGQISGLNVLR		
1242.6801	1242.6956	12	207	218	DAGQISGLNVLR	0	0
1290.6801	1290.6971	13	395	405	VQQTVDLFGFR		
1290.6801	1290.6971	13	395	405	VQQTVDLFGFR	7	81.02
1462.757	1462.7739	12	378	391	SDIGEVILVGGMTR		Oxidation (M)
1462.757	1462.7739	12	378	391	SDIGEVILVGGMTR		Oxidation (M)
1476.7329	1476.752	13	86	99	TTPSVVAFDPDGER		
1476.7329	1476.752	13	86	99	TTPSVVAFDPDGER	0	3.104
1489.8373	1489.8536	11	349	361	AQFEGIVDLIKR		
1490.7996	1490.8464	31	613	624	EEISKMRELLAR		Oxidation (M)
1608.7687	1608.7921	15	174	187	MKETAENYLGHAK		Oxidation (M)
1670.9183	1670.9171	-1	203	218	QATKDAGQISGLNVLR		
1694.8496	1694.8652	9	188	202	NAVITVPAYFNDSQR		
1694.8496	1694.8652	9	188	202	NAVITVPAYFNDSQR	4	58.284
1706.8378	1706.8563	11	293	307	ETGVDLTKDNMALQR		Oxidation (M)
1709.8717	1709.8639	-5	144	159	IVRASNGDAWVEAHGK		
1724.8715	1724.8921	12	108	122	QAVTNPNTFYATKR		
1808.9025	1808.9252	13	469	485	SQVVFSTAADGQTQVEIK		
2110.9783	2110.9368	-20	596	612	MEEFKDQLPADECNKLK		Carbamidomethyl (C); Oxidation (M)
2434.2129	2434.2026	-4	542	563	EQQIMQSSGGLSKDDIENMVK		Oxidation (M)

Spot 313 (20070719-D3) Hspa9							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
2421.188	2422.1882	-3	53	76	K.GAVVGDLDGTTNSCVAVMEGKGAQ.V		Oxidation (M)
957.4879	958.507	12	77	85	K.VLENAEGAR.T		
1475.7256	1476.7522	13	86	99	R.TTPSVVAFDPDGER.L		
886.5058	887.5123	-1	100	107	R.LVGMPAKR.G		Oxidation (M)
1567.7631	1568.7812	7	108	121	R.QAVTNPNTFYATK.R		
1723.8642	1724.8933	13	108	122	R.QAVTNPNTFYATK.R.L		
971.5916	972.615	17	139	146	K.NVPFKIVR.A		
1708.8645	1709.8644	-4	144	159	K.IVRASNGDAWVEAHGK.L		
1568.8272	1569.7996	-22	160	173	K.LYSPSQIGAFVLMK.M		
1607.7613	1608.7917	14	174	187	K.MKETAENYLGHAK.N		Oxidation (M)
1693.8424	1694.8652	10	188	202	K.NAVITVPAYFNDSQR.Q		Oxidation (M)
1669.9111	1670.9181	0	203	218	R.QATKDAGQISGLNVLR.V		
1241.6728	1242.6979	14	207	218	K.DAGQISGLNVLR.V		
1705.8305	1706.8556	10	293	307	R.ETGVDLTKDNMALQR.V		Oxidation (M)
1488.83	1489.8518	10	349	361	R.AQFEGIVDLIKR.T		
1461.7497	1462.7737	11	378	391	K.SDIGEVILVGGMTR.M		Oxidation (M)
1289.6728	1290.6974	13	395	405	K.VQQTVDLFGFR.A		
1807.8952	1808.924	12	469	485	K.SQVVFSTAADGQTQVEIK.V		
2433.2057	2434.199	-6	542	563	R.EQQIMQSSGGLSKDDIENMVK.N		Oxidation (M)
903.496	904.5026	-1	618	624	K.MRELLAR.K		Oxidation (M)
1044.5314	1045.5656	26	647	654	K.LFEMAYKK.M		Oxidation (M)

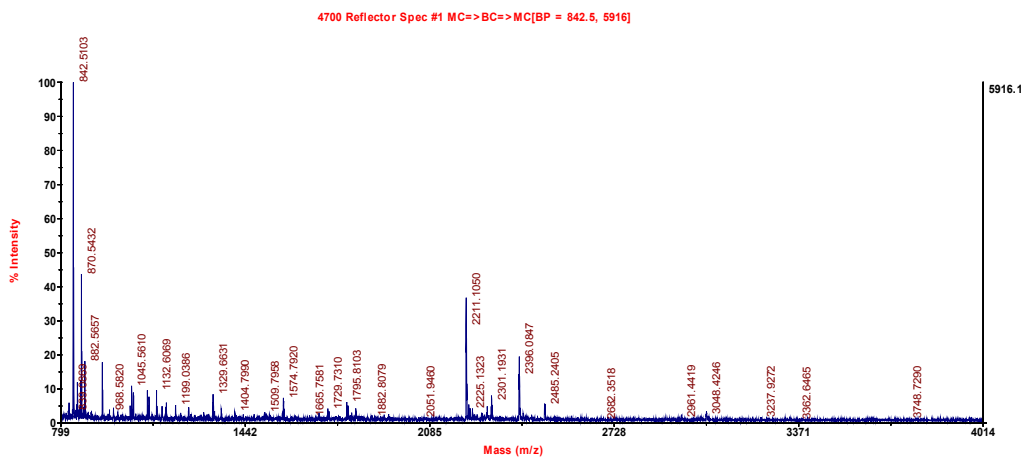
# Spot 320 (C22 20080606) - Heat shock protein 1 (chaperonin) (Hspd1)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 6937] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 673



Spot 320 (20080606-C22) Hspd1							
PMF/MALDI							
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.% Modification
2144.1221	2145.1248	-2	38	58	R.ALMLQGVLDLADAVVTMGPK.G		2 Oxidation (M)
1556.8311	1557.827	-7	59	72	K.GRTVIEQSWGSPK.V		
1343.7085	1344.7137	-2	61	72	R.TVIEQSWGSPK.V		
2559.2413	2560.2659	7	97	121	K.LVQDVANNNEEAGDGTITATVLAR.S		
1182.672	1183.6521	-23	131	141	K.ISKGANPVEIR.R		
854.461	855.4665	-2	134	141	K.GANPVEIR.R		
1010.5621	1011.5704	1	134	142	K.GANPVEIRR.G		
2238.0838	2239.1038	6	203	221	K.DGKTLNDELEIEIGMKFDR.G		Oxidation (M)
1921.9455	1922.9319	-11	206	221	K.TLNDELEIEIGMKFDR.G		
1937.9404	1938.9485	0	206	221	K.TLNDELEIEIGMKFDR.G		Oxidation (M)
1806.8941	1807.8937	-4	219	233	K.FDRGYISPYFINTSK.G		
2120.0691	2121.0276	-23	219	236	K.FDRGYISPYFINTSKGQK.C		
1388.6976	1389.7045	0	222	233	R.GYISPYFINTSK.G		
1729.8233	1730.8927	36	237	250	K.CEFQDAYVLLSEK.I		
2032.1429	2033.1423	-4	250	268	K.KISSVGSIVPALEIANHR.K		
1904.0479	1905.0526	-1	251	268	K.ISSVGSIVPALEIANHR.K		
2364.3264	2365.3298	-2	269	290	R.KPLVIAEDVDGEALSTLVNLR.L		
1725.9526	1726.9257	-20	293	309	K.VGLQVAVKAPFGDNR.K		
1854.0476	1855.0613	3	293	310	K.VGLQVAVKAPFGDNRK.N		
832.3628	833.3945	5	302	309	K.APFGDNR.K		
960.4777	961.494	9	302	310	K.APFGDNRK.N		
1645.8961	1646.8971	-4	345	359	K.VGEVIVTKDDAMLLK.G		
2452.2333	2453.2002	-16	370	389	K.RIQEITEQDITSEYEKEK.L		Oxidation (M)
2038.9946	2040.0173	8	371	387	R.IQEITEQDITSEYEK.E		
2296.1322	2297.1475	3	371	389	R.IQEITEQDITSEYEKEK.L		
2808.4028	2809.3953	-5	371	393	R.IQEITEQDITSEYEKEKLNLR.L		
1631.8115	1632.8188	0	406	420	K.VGGTSDVEVNEKDR.V		
959.5036	960.5117	1	421	429	R.VTDALNATR.A		
940.6069	941.6127	-2	463	470	K.IGIEIIR.A		
1214.6507	1215.6512	-6	482	493	K.NAGVEGSLIVEK.I		
2563.1822	2564.2178	11	494	516	K.ILGSSSEVGYDAMLGDFVNMVEK.G		2 Oxidation (M)
1096.6604	1097.6639	-3	517	526	K.GIIDPTKAVR.T		

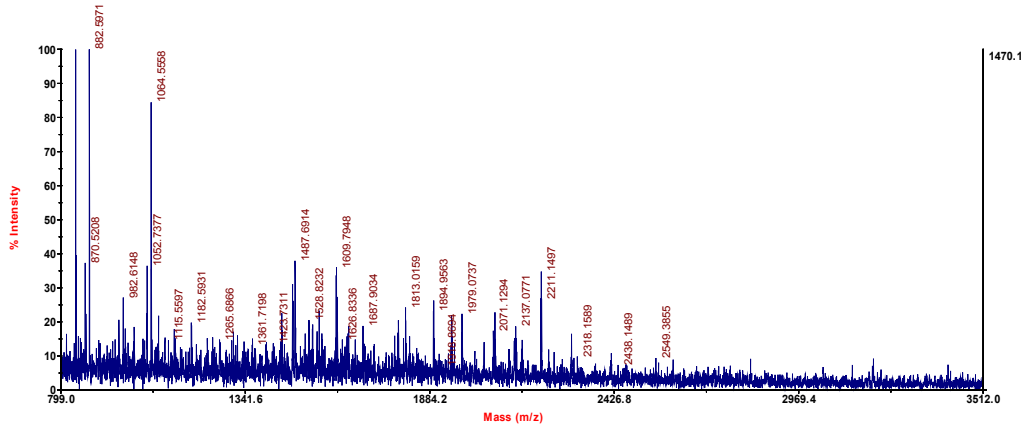
# Spot 330 (D22 20070719) – SUMO-activating enzyme subunit 1 (Sae1)



Spot 330 (20070719-D22) Sae1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
2395.0775	2396.0845	0	2	24	M.VEKEEVSGGGGISEEEAAQYDR.Q	
1099.6138	1100.6176	-3	28	36	R.LWGLEAQKR.L	
1513.8902	1514.8726	-16	42	56	R.VLVGMKGLGAEIAK.N	Oxidation (M)
826.5276	827.5223	-15	57	64	K.NLILAGVK.G	
2484.2319	2485.2402	0	65	86	K.GLTMLDHEQVSPEDLGAQFLIR.T	Oxidation (M)
1573.7808	1574.7919	2	87	101	R.TGSVGNRAEASLER.A	
1243.6231	1244.6186	-11	102	112	R.AGNLNPMDVK.V	Oxidation (M)
1356.6634	1357.6595	-8	187	199	K.VSQGVEDGPPDAKR.A	
2264.092	2265.0693	-13	257	276	K.GRDPDSYSEDAELLQIR.N	
2050.9695	2051.9458	-15	259	276	R.DPTSDSYSEDAELLQIR.N	
2219.0747	2220.0918	4	277	296	R.NDVFDSLGVSPDLLPDDFVY.Y	
2283.0531	2284.1475	38	320	338	K.ALSGRDPPHNNFFFDGMK.G	Oxidation (M)
1727.7403	1728.7565	5	325	338	R.DPPHNNFFFDGMK.G	Oxidation (M)

# Spot 338 (C21 20080606) – NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial (Ndufs1)

SUB [4700 Reflector Spec #1 MC=>BC=>MC]BP = 882.6, 6098] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC]BP = 882.6, 673

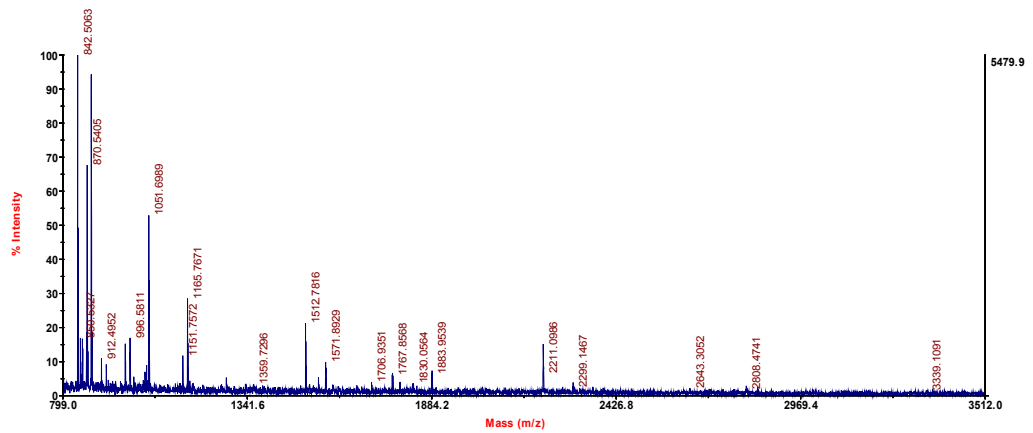


Spot 338 (20080606-C21) Ndufs1									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
1692.7365	1693.7677	-15	56	68	K.VSMQIPRFYHER.L				
1607.7791	1608.7827	-2	185	200	R.FASEIAGVDLGTTR.G				
2136.0733	2137.0771	-2	247	266	R.KTESIDVMDAVGSNIVVSTR.T			Oxidation (M)	
1917.8527	1918.8694	5	277	291	R.MHEDINEEWSDKTR.F			Oxidation (M)	
968.508	969.5104	-5	292	299	R.FAYDGLKR.Q				
1610.794	1611.8	-1	312	325	K.GLLTYTSWEDALSR.V				
1181.5751	1182.5931	9	326	336	R.VAGMLQSFEGK.A			Oxidation (M)	
1063.5451	1064.5558	3	409	417	R.FEAPLFNAR.I				
1557.7787	1558.7979	8	451	464	K.ILODIASGNHEFSK.V				
1400.781	1401.7819	-5	471	483	K.KPMVVLGSSALQR.D			Oxidation (M)	
2070.1473	2071.1294	-12	519	538	R.IASQVAALDLGYKPGVEAIR.K				
1537.8253	1538.8057	-17	608	621	K.VAVTPPGLAREDWKI				
2074.0946	2075.1047	1	625	643	R.ALSEIAGITLPYDTLDQVR.N				



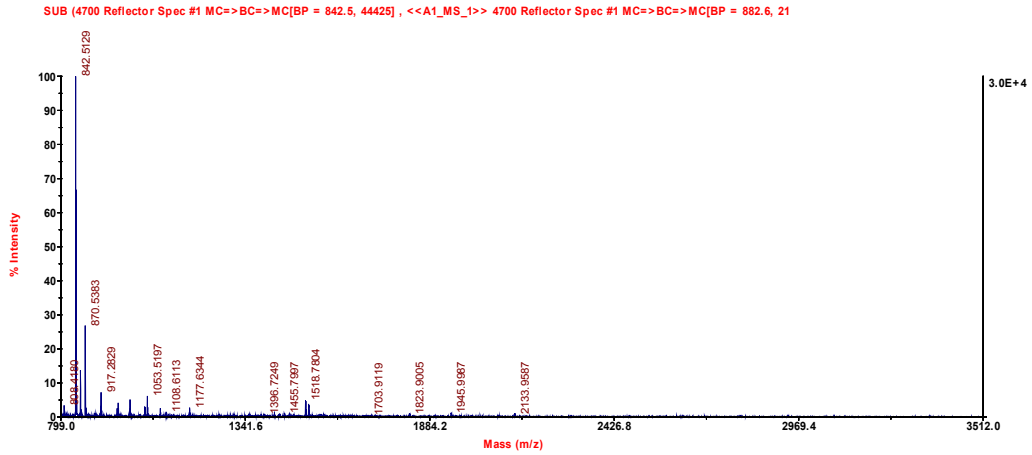
# Spot 339 (D4 20080606) - 6-phosphogluconolactonase (PgIs)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP] = 882.6, 11309) , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP] = 882.6, 67



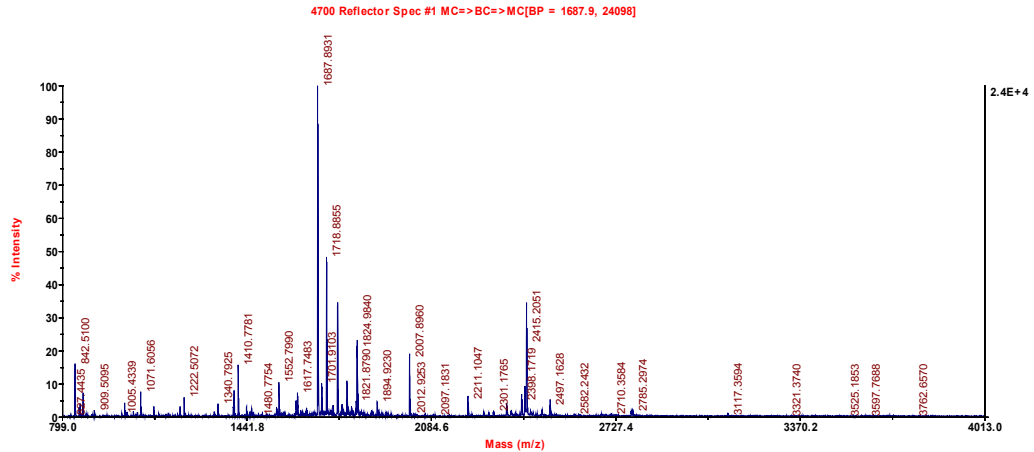
Spot 339 (20080606-D4) PgIs						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1511.7732	1512.7817	1	91	106	R.DLPAATAPAGPASFAW	Ion Score
1766.8628	1767.8569	-7	116	130	R.LVPFDHAESTYGLYR.T	C.I.% Modification
2807.4229	2808.4744	16	137	162	K.LLPIFDQVLTIDPALPVEDAAEDYAR.K	
1570.8831	1571.8931	2	205	219	K.IVAPIGDSKPPPPQR.V	
1882.9458	1883.9539	0	249	265	R.ILEDQESALPAAMVQPR.T	Oxidation (M)

# Spot 342 (A24 20080606) - Inner membrane protein, mitochondrial, isoform CRA\_a (Immt)



Spot 342 (20080606-A24) Immt									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
966.6362	967.5931	0	102	110	K.KPIQSSPLK.I				
1517.7695	1518.7804	3	175	188	K.SLEDALNOTATVTR.Q				
1441.7899	1442.8073	8	189	202	R.QTITAGNAAVGAVK.A				
1562.7828	1563.7919	1	268	282	R.EIAGATPYITAAEEK.L				
1454.7803	1455.7997	8	283	295	K.LHSMVLDLSVVK.K				
1526.8205	1527.8331	-3	306	318	K.VVSYHVELVQAR.D				
1570.7879	1571.8281	21	324	337	K.ELDSITPDITPGWK.G				
1107.6036	1108.6113	0	380	388	K.QHIELALER.Q				
807.4127	808.418	-2	396	403	R.AFDSAVAK.A				
2131.948	2132.9565	1	480	497	R.SQEQMDNFTLDINTAYAR.L			Oxidation (M)	
1822.8809	1823.9005	7	500	516	R.GIEQAVQSHAVAEER.K				
1944.9826	1945.9987	5	534	552	K.TSSAEMPTIPLGSAVEAIR.V			Oxidation (M)	
1052.5138	1053.5197	-1	576	584	R.GVYSEETLR.A				

**Spot 344 (D8 20070719) – mixture of: Tubulin alpha-3 chain (Tuba3), Tubulin alpha-8 chain (Tuba8), Tubulin alpha-1A chain (Tuba1a), Tubulin alpha-1B chain (Tuba1b), Tubulin alpha-1C chain (Tuba1c) and Tubulin alpha-8 chain (Tuba8)**



Spot 344 (20070719-D8) Tuba3						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
1015.5782	1015.5765	-2	327	336	DVNAAIATIK	
1071.6045	1071.6045	0	113	121	EIVDLVLR	
1340.7897	1340.7898	0	113	123	EIVDLVLRIR	
1396.693	1396.6952	2	391	401	LDHKFDLMYAK	
1410.7739	1410.7773	2	85	96	QLFHPEQLITGK	
1410.7739	1410.7773	2	85	96	QLFHPEQLITGK	62
1457.8685	1457.8756	5	230	243	LIGQIVSSITASLR	
1552.7941	1552.7986	3	391	402	LDHKFDLMYAKR	
1552.7941	1552.7986	3	391	402	LDHKFDLMYAKR	4
1687.8901	1687.8923	1	65	79	AVFVDLEPTVWDEV	
1687.8901	1687.8923	1	65	79	AVFVDLEPTVWDEV	103
1718.8821	1718.8857	2	216	229	NLDIERPTYTNLNR	
1718.8821	1718.8857	2	216	229	NLDIERPTYTNLNR	24
1756.9633	1756.964	0	265	280	IHFPLATYAPVISAEEK	
1756.9633	1756.964	0	265	280	IHFPLATYAPVISAEEK	133
1824.9854	1824.9844	-1	353	370	VGINYQPPTVPPGGDLAK	
1824.9854	1824.9844	-1	353	370	VGINYQPPTVPPGGDLAK	47
1827.9963	1828.0005	2	106	121	GHYTIGKEIVDLVLR	
1894.8318	1894.9236	48	312	326	YMACCMLYRGDVPK	
2007.8929	2007.8995	1	41	60	TIGGGDDSFNTFFSETGAGK	130
2007.8929	2007.8995	1	41	60	TIGGGDDSFNTFFSETGAGK	
2266.1714	2266.1824	5	65	84	AVFVDLEPTVWDEVRTGTYR	
2346.0132	2346.0095	-2	403	422	AFVHWYVYVGEEMEEGFSEAR	
2409.2085	2409.209	0	244	264	FDGALNVDLTFQTNLVPYPR	
2415.2051	2415.207	1	85	105	QLFHPEQLITGKEDAANNYAR	63
2415.2051	2415.207	1	85	105	QLFHPEQLITGKEDAANNYAR	
2497.1741	2497.1648	-4	41	64	TIGGGDDSFNTFFSETGAGKHVPR	
3117.3428	3117.3591	5	423	450	EDLAALEKDYEEVGVDSVEAEAEEGEEY	

Spot 344 (20070719-D8) Tuba3						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
2006.8958	2007.896	1	41	60	K.TIGGGDDSFNTFFSETGAGK.H	
2496.167	2497.1628	-5	41	64	K.TIGGGDDSFNTFFSETGAGKHVPR.A	
1686.8829	1687.8931	2	65	79	R.AVFVDLEPTVWDEV.R.T	
2265.1641	2266.1775	3	65	84	R.AVFVDLEPTVWDEVRTGTYR.Q	
1409.7667	1410.7781	3	85	96	R.QLFHPEQLITGK.E	
2414.1978	2415.2051	0	85	105	R.QLFHPEQLITGKEDAANNYAR.G	
1022.4417	1023.4598	11	97	105	K.EDAANNYAR.G	
1826.989	1828.0007	2	106	121	R.GHYTIGKEIVDLVLR.I	
1070.5972	1071.6056	1	113	121	K.EIVDLVLR.I	
1339.7823	1340.7925	2	113	123	K.EIVDLVLRIR.K	
908.4967	909.5095	6	157	164	R.LSDYGK.K.S	
1873.9758	1874.9896	3	215	229	R.RNLDIERPTYTNLNR.L	
1717.8747	1718.8855	2	216	229	R.NLDIERPTYTNLNR.L	
1456.8613	1457.876	5	230	243	R.LIGQIVSSITASLR.F	
2408.2012	2409.2073	-1	244	264	R.FDGALNVDLTFQTNLVPYPR.I	
1756.9559	1756.9663	2	265	280	R.IHFPLATYAPVISAEEK.A	
1609.9039	1610.897	-9	321	336	R.GDVVPKDVNAAIATIK.T	
1014.5709	1015.5777	-1	327	336	K.DVNAAIATIK.T	
1754.845	1755.89	21	339	352	K.RTIQFVDCPTGFK.V	
1823.9782	1824.984	-1	353	370	K.VGINYQPPTVPPGGDLAK.V	
1395.6857	1396.6965	3	391	401	R.LDHKFDLMYAK.R	
886.4259	887.4356	3	395	401	K.FDLMYAK.R	
902.4208	903.4473	21	395	401	K.FDLMYAK.R	
1058.5219	1059.5331	4	395	402	K.FDLMYAKR.A	
2501.107	2502.1792	26	402	422	K.RAFVHWYVYVGEEMEEGFSEAR.E	
2345.0059	2346.0068	-3	403	422	R.AFVHWYVYVGEEMEEGFSEAR.E	
3116.3357	3117.3594	5	423	450	R.EDLAALEKDYEEVGVDSVEAEAEEGEEY.-	

Spot 344 (20070719-D8) Tuba1a											
MS•MS/MS											
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification			
1015.5782	1015.5765	-2	327	336	DVNAAIATIK						
1396.693	1396.6952	2	391	401	LDHKFDLMYAK			Oxidation (M)			
1410.7739	1410.7773	2	85	96	QLFHPEQLITGK						
1410.7739	1410.7773	2	85	96	QLFHPEQLITGK	62	100				
1457.8685	1457.8756	5	230	243	LIGQIVSSITASLR						
1552.7941	1552.7986	3	391	402	LDHKFDLMYAKR			Oxidation (M)			
1552.7941	1552.7986	3	391	402	LDHKFDLMYAKR	4	47.118	Oxidation (M)			
1701.9058	1701.9078	1	65	79	AVFVDLEPTVIDEVR						
1701.9058	1701.9078	1	65	79	AVFVDLEPTVIDEVR	45	99.996				
1718.8821	1718.8857	2	216	229	NLDIERPTYNLNR						
1718.8821	1718.8857	2	216	229	NLDIERPTYNLNR	24	99.486				
1756.9633	1756.964	0	265	280	IHFPLATYAPVISAEEK						
1756.9633	1756.964	0	265	280	IHFPLATYAPVISAEEK	133	100				
1824.9854	1824.9844	-1	353	370	VGINYQPPTVVPGGDLAK	47	99.998				
1824.9854	1824.9844	-1	353	370	VGINYQPPTVVPGGDLAK						
2007.8929	2007.8955	1	41	60	TIGGGDDSFNTFFSETGAGK						
2007.8929	2007.8955	1	41	60	TIGGGDDSFNTFFSETGAGK	130	100				
2346.0132	2346.0085	-2	403	422	AFVHWYVYEGMEEGEFSEAR			Oxidation (M)			
2409.2085	2409.209	0	244	264	FDGALNVDLTFGTNLVYPR						
2415.2051	2415.207	1	85	105	QLFHPEQLITGKEDAANNYAR						
2415.2051	2415.207	1	85	105	QLFHPEQLITGKEDAANNYAR	63	100				
2497.1741	2497.1648	-4	41	64	TIGGGDDSFNTFFSETGAGKHVPR						

Spot 344 (20070719-D8) Tuba1a											
PMF/MALDI											
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification			
2006.8858	2007.896	1	41	60	K.TIGGGDDSFNTFFSETGAGK.H						
2496.167	2497.1628	-5	41	64	K.TIGGGDDSFNTFFSETGAGKHVPR.A						
1700.8985	1701.9103	3	65	79	R.AVFVDLEPTVIDEVR.T						
1409.7667	1410.7781	3	85	96	R.QLFHPEQLITGK.E						
2414.1978	2415.2051	0	85	105	R.QLFHPEQLITGKEDAANNYAR.G						
1022.4417	1023.4598	11	97	105	K.EDAANNYAR.G						
908.4967	909.5095	6	157	164	R.LSVDYGK.K.S						
1873.9758	1874.9896	3	215	229	R.RNLDIERPTYNLNR.L						
1717.8747	1718.8855	2	216	229	R.NLDIERPTYNLNR.L						
1456.8613	1457.876	5	230	243	R.LIGQIVSSITASLR.F						
2408.2012	2409.2073	-1	244	264	R.FDGALNVDLTFGTNLVYPR.I						
1755.9559	1756.9663	2	265	280	R.IHFPLATYAPVISAEEK.A						
1609.9039	1610.897	-9	321	336	R.GDVVPKDVNAAIATIK.T						
1014.5709	1015.5777	-1	327	336	K.DVNAAIATIK.T						
1754.845	1755.89	21	339	352	K.RSIQFVWCPTGFK.V						
1823.9782	1824.984	-1	353	370	K.VGINYQPPTVVPGGDLAK.V						
1395.6857	1396.6965	3	391	401	R.LDHKFDLMYAKR			Oxidation (M)			
886.4259	887.4356	3	395	401	K.FDLMYAKR						
902.4208	903.4473	21	395	401	K.FDLMYAKR			Oxidation (M)			
1058.5219	1059.5331	4	395	402	K.FDLMYAKR.A			Oxidation (M)			
2501.107	2502.1792	26	402	422	R.AFVHWYVYEGMEEGEFSEAR.E			Oxidation (M)			
2345.0059	2346.0068	-3	403	422	R.AFVHWYVYEGMEEGEFSEAR.E			Oxidation (M)			

Spot 344 (20070719-D8) Tuba1b											
MS•MS/MS											
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification			
1015.5782	1015.5765	-2	327	336	DVNAAIATIK						
1396.693	1396.6952	2	391	401	LDHKFDLMYAK			Oxidation (M)			
1410.7739	1410.7773	2	85	96	QLFHPEQLITGK						
1410.7739	1410.7773	2	85	96	QLFHPEQLITGK	62	100				
1552.7941	1552.7986	3	391	402	LDHKFDLMYAKR			Oxidation (M)			
1552.7941	1552.7986	3	391	402	LDHKFDLMYAKR	4	47.118	Oxidation (M)			
1701.9058	1701.9078	1	65	79	AVFVDLEPTVIDEVR						
1701.9058	1701.9078	1	65	79	AVFVDLEPTVIDEVR	45	99.996				
1718.8821	1718.8857	2	216	229	NLDIERPTYNLNR						
1718.8821	1718.8857	2	216	229	NLDIERPTYNLNR	24	99.486				
1740.8527	1740.8761	13	339	352	RSIQFVWCPTGFK			Carbamidomethyl (C)			
1756.9633	1756.964	0	265	280	IHFPLATYAPVISAEEK						
1756.9633	1756.964	0	265	280	IHFPLATYAPVISAEEK	133	100				
1824.9854	1824.9844	-1	353	370	VGINYQPPTVVPGGDLAK	47	99.998				
1824.9854	1824.9844	-1	353	370	VGINYQPPTVVPGGDLAK						
2007.8929	2007.8955	1	41	60	TIGGGDDSFNTFFSETGAGK						
2007.8929	2007.8955	1	41	60	TIGGGDDSFNTFFSETGAGK	130	100				
2346.0132	2346.0085	-2	403	422	AFVHWYVYEGMEEGEFSEAR			Oxidation (M)			
2409.2085	2409.209	0	244	264	FDGALNVDLTFGTNLVYPR						
2415.2051	2415.207	1	85	105	QLFHPEQLITGKEDAANNYAR						
2415.2051	2415.207	1	85	105	QLFHPEQLITGKEDAANNYAR	63	100				
2497.1741	2497.1648	-4	41	64	TIGGGDDSFNTFFSETGAGKHVPR						

Spot 344 (20070719-D8) Tuba1b											
PMF/MALDI											
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification			
2006.8858	2007.896	1	41	60	K.TIGGGDDSFNTFFSETGAGK.H						
2496.167	2497.1628	-5	41	64	K.TIGGGDDSFNTFFSETGAGKHVPR.A						
1700.8985	1701.9103	3	65	79	R.AVFVDLEPTVIDEVR.T						
1409.7667	1410.7781	3	85	96	R.QLFHPEQLITGK.E						
2414.1978	2415.2051	0	85	105	R.QLFHPEQLITGKEDAANNYAR.G						
1022.4417	1023.4598	11	97	105	K.EDAANNYAR.G						
908.4967	909.5095	6	157	164	R.LSVDYGK.K.S						
1873.9758	1874.9896	3	215	229	R.RNLDIERPTYNLNR.L						
1717.8747	1718.8855	2	216	229	R.NLDIERPTYNLNR.L						
2408.2012	2409.2073	-1	244	264	R.FDGALNVDLTFGTNLVYPR.I						
1755.9559	1756.9663	2	265	280	R.IHFPLATYAPVISAEEK.A						
1609.9039	1610.897	-9	321	336	R.GDVVPKDVNAAIATIK.T						
1014.5709	1015.5777	-1	327	336	K.DVNAAIATIK.T						
1740.8294	1741.8292	-4	339	352	K.RSIQFVWCPTGFK.V						
1823.9782	1824.984	-1	353	370	K.VGINYQPPTVVPGGDLAK.V						
1395.6857	1396.6965	3	391	401	R.LDHKFDLMYAKR			Oxidation (M)			
886.4259	887.4356	3	395	401	K.FDLMYAKR						
902.4208	903.4473	21	395	401	K.FDLMYAKR			Oxidation (M)			
1058.5219	1059.5331	4	395	402	K.FDLMYAKR.A			Oxidation (M)			
2501.107	2502.1792	26	402	422	R.AFVHWYVYEGMEEGEFSEAR.E			Oxidation (M)			
2345.0059	2346.0068	-3	403	422	R.AFVHWYVYEGMEEGEFSEAR.E			Oxidation (M)			

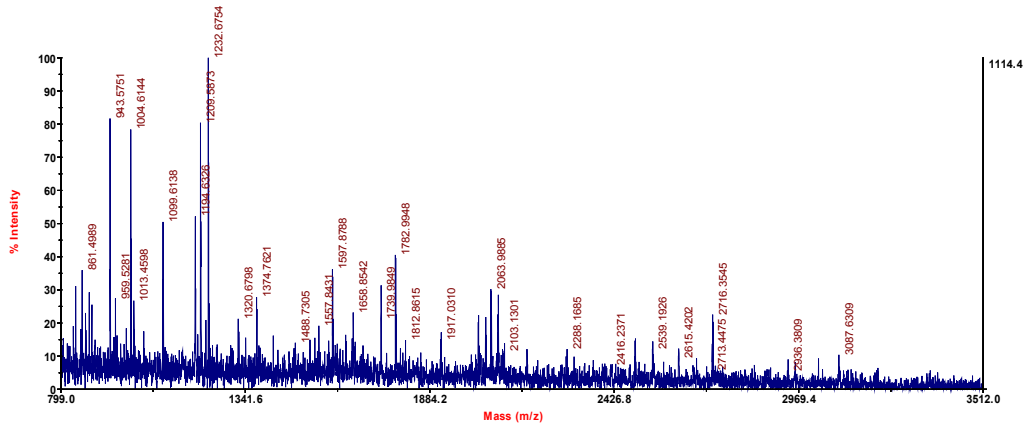
Spot 344 (20070719-D8) Tuba1c									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
1015.5782	1015.5765	-2	327	336	DVNAAIATIK				
1396.693	1396.6952	2	391	401	LDHKFDLMYAK			Oxidation (M)	
1410.7739	1410.7773	2	85	96	QLFHPEQLTGK				
1410.7739	1410.7773	2	85	96	QLFHPEQLTGK	62	100		
1552.7941	1552.7986	3	391	402	LDHKFDLMYAKR			Oxidation (M)	
1552.7941	1552.7986	3	391	402	LDHKFDLMYAKR	4	47.118	Oxidation (M)	
1701.9058	1701.9078	1	65	79	AVFVDLEPTVDEVR				
1701.9058	1701.9078	1	65	79	AVFVDLEPTVDEVR	45	99.996		
1718.8821	1718.8857	2	216	229	NLDIERPTYNLNR				
1718.8821	1718.8857	2	216	229	NLDIERPTYNLNR	24	99.486		
1756.9633	1756.964	0	265	280	IHFPLATYAPVISAEEK				
1756.9633	1756.964	0	265	280	IHFPLATYAPVISAEEK	133	100		
2007.8929	2007.8955	1	41	60	TIGGGDDSFNTFFSETGAGK	130	100		
2007.8929	2007.8955	1	41	60	TIGGGDDSFNTFFSETGAGK				
2346.0132	2346.0085	-2	403	422	AFVHWYYVGEEMEEGFSEAR			Oxidation (M)	
2409.2085	2409.209	0	244	264	FDGALNVDLTFQTNLVYPR				
2415.2051	2415.207	1	85	105	QLFHPEQLTGKEDAANNYAR	63	100		
2415.2051	2415.207	1	85	105	QLFHPEQLTGKEDAANNYAR				
2497.1741	2497.1648	-4	41	64	TIGGGDDSFNTFFSETGAGKHVPR				
2780.3018	2780.312	4	261	304	AYHEQLTVAETNACFEPANQVMYK			Carbamidomethyl (C); Oxidation (M)	

Spot 344 (20070719-D8) Tuba1c									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
2006.8958	2007.896	1	41	60	K.TIGGGDDSFNTFFSETGAGK.H				
2496.167	2497.1628	-5	41	64	K.TIGGGDDSFNTFFSETGAGKHVPR.A				
1700.8955	1701.9103	3	65	79	R.AVFVDLEPTVDEVR.T				
1409.7667	1410.7781	3	85	96	R.QLFHPEQLTGK.E				
2414.1978	2415.2051	0	85	105	R.QLFHPEQLTGKEDAANNYAR.G				
1022.4417	1023.4598	11	97	105	K.EDAANNYAR.G				
908.4967	909.5095	6	157	164	R.LSVDYGK.S				
1873.9758	1874.9896	3	215	229	R.NLDIERPTYNLNR.L				
1717.8747	1718.8855	2	216	229	R.NLDIERPTYNLNR.L				
2408.2012	2409.2073	-1	244	264	R.FDGALNVDLTFQTNLVYPR.I				
1755.9559	1756.9663	2	265	280	R.IHFPLATYAPVISAEEK.A				
1609.9039	1610.897	-9	321	336	R.GDVVPKDVNAAIATIK.T				
1014.5709	1015.5777	-1	327	336	K.DVNAAIATIK.T				
1754.845	1755.89	21	339	352	K.RTIQFVDWCPTGFK.V				
1851.9843	1852.9657	-14	353	370	K.VGINYQPPTVPPGGDLAR.V				
1395.6857	1396.6965	3	391	401	R.LDHKFDLMYAK.R			Oxidation (M)	
886.4259	887.4356	3	395	401	K.FDLMYAK.R				
902.4208	903.4473	21	395	401	K.FDLMYAK.R			Oxidation (M)	
1058.5219	1059.5331	4	395	402	K.FDLMYAKR.A			Oxidation (M)	
2501.107	2502.1792	26	402	422	K.RAFVHWYYVGEEMEEGFSEAR.E			Oxidation (M)	
2345.0059	2346.0068	-3	403	422	R.AFVHWYYVGEEMEEGFSEAR.E			Oxidation (M)	

Spot 344 (20070719-D8) Tuba8									
MS•MS/MS									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I. %	Modification	
1396.693	1396.6952	2	391	401	LDHKFDLMYAK			Oxidation (M)	
1410.7739	1410.7773	2	85	96	QLFHPEQLTGK				
1410.7739	1410.7773	2	85	96	QLFHPEQLTGK	62	100		
1552.7941	1552.7986	3	391	402	LDHKFDLMYAKR			Oxidation (M)	
1552.7941	1552.7986	3	391	402	LDHKFDLMYAKR	4	51.931	Oxidation (M)	
1687.8571	1687.8923	21	65	79	AVMVDLEPTVDEVR			Oxidation (M)	
1687.8571	1687.8923	21	65	79	AVMVDLEPTVDEVR	103	100	Oxidation (M)	
1718.8821	1718.8857	2	216	229	NLDIERPTYNLNR				
1718.8821	1718.8857	2	216	229	NLDIERPTYNLNR	24	99.532		
1824.9854	1824.9844	-1	353	370	VGINYQPPTVPPGGDLAK	47	99.998		
1824.9854	1824.9844	-1	353	370	VGINYQPPTVPPGGDLAK				
1894.8318	1894.9236	48	312	326	YMACCMLYRGDVVPK			2 Carbamidomethyl (C); 2 Oxidation (M)	
2346.0132	2346.0085	-2	403	422	AFVHWYYVGEEMEEGFSEAR			Oxidation (M)	
2409.2085	2409.209	0	244	264	FDGALNVDLTFQTNLVYPR				
2415.2051	2415.207	1	85	105	QLFHPEQLTGKEDAANNYAR	63	100		
2415.2051	2415.207	1	85	105	QLFHPEQLTGKEDAANNYAR				

**Spot 350 (D7 20080606) – mixture of: Cytosol aminopeptidase (Leucine aminopeptidase 3) (Lap3) and Pre-mRNA-processing factor 19 (Nuclear matrix protein SNEV [Mus musculus]) (Prpf19)**

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 6166] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 673

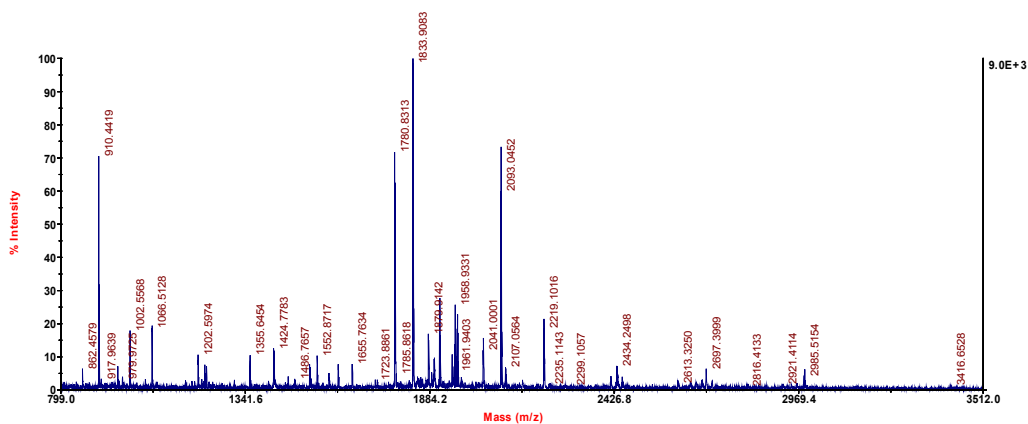


Spot 350 (20080606-D7) Lap3									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
2025.8916	2026.9033	2	44	61	K.DKDDVDPQFTSAGENFNK.L				
2082.9355	2083.95	3	105	122	R.SAGVDDQENWHEGKENIR.A				
1231.6673	1232.6754	1	189	200	K.GVLFASGQNLAR.Q				
1635.7232	1636.7472	10	201	214	R.QLMESPANEMTPTR.F			2 Oxidation (M)	
2085.0088	2085.97	-22	236	253	R.TKSWIEEQEMGSFSLVAK.G			Oxidation (M)	
3084.6444	3085.5066	-15	254	282	K.GSEEPVFLIEHYTGSPNATEAPLVFVGK.G				
1193.6292	1194.6326	-3	263	294	K.GITFDSGGISIK.A				
2715.2336	2716.3545	42	295	321	K.ASANMDLMRADMGAATCSAIVSAAK.L			2 Oxidation (M)	
1663.8318	1664.8372	-1	418	431	K.LFEASVETGDRVWR.M				
1208.5648	1209.5873	13	432	440	R.MPLFEHYTR.Q			Oxidation (M)	
1003.6066	1004.6144	1	506	513	R.TLIEFLLR.F				

Spot 350 (20080606-D7) Prpf19									
PMF/MALDI									
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification	
2046.9833	2047.9907	0	77	93	K.ALQDEWDVAMLHSFTLR.Q			Oxidation (M)	
1373.7514	1374.7621	2	176	187	K.LQDKATVLTTR.K				
883.4869	890.4893	-8	180	187	K.ATYLTTR.K				
1781.9774	1782.9948	6	191	206	R.GKTVPEELVKPEELSK.Y				
1596.861	1597.8788	7	193	206	K.TVPEELVKPEELSK.Y				
1916.0255	1917.031	-1	193	208	K.TVPEELVKPEELSKYR.Q				
2614.3755	2615.4202	14	266	289	K.KVTSVVFHPSQELVFSASPDATIR.I				
2486.2806	2487.282	-2	267	289	K.VTTSVVFHPSQELVFSASPDATIR.I				
958.5236	959.5281	-3	376	382	K.IWDLKER.T				
1319.6721	1320.6798	0	429	439	K.TLQLDNNFEVK.S				
1012.4648	1013.4598	-12	489	497	K.FIATGMDR.S			Oxidation (M)	

# Spot 351 (D10 20080606) - Protein disulfide isomerase (P4hb, Pdia1)

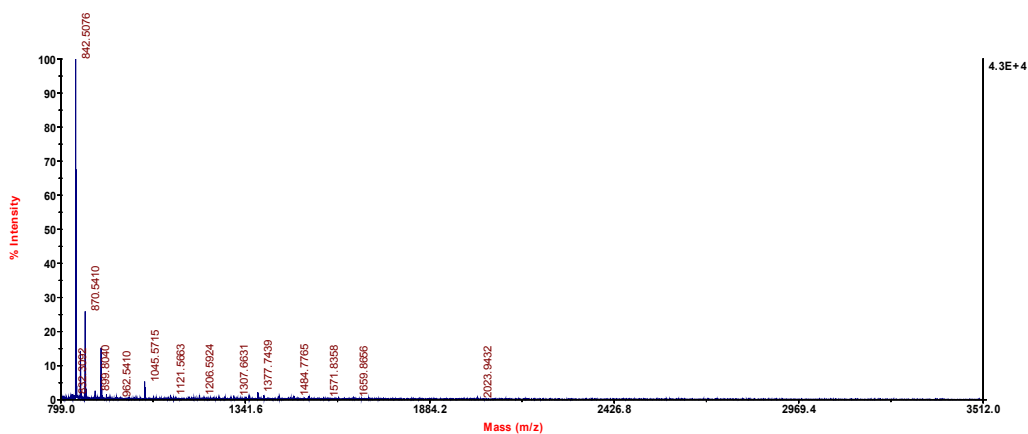
SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 1834.9, 9095] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 67



Spot 351 (20080606-D10) P4hb, Pdia1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
861.4596	862.4579	-10	60	67	K.ALAPEYAK.A	
1001.5505	1002.5568	-1	72	80	K.LKAEQSEIR.L	
2092.0436	2093.0452	-3	81	99	R.LAKVDATEESDLAQQYGVR.G	
1779.8275	1780.8313	-2	84	99	K.VDATEESDLAQQYGVR.G	
1465.6797	1466.6812	-4	109	122	K.NGDTASPKEYTAGR.E	
2649.267	2650.292	7	109	132	K.NGDTASPKEYTAGREADDIVNWLK.K	
1878.9112	1879.9142	-2	117	132	K.EYTAGREADDIVNWLK.K	
1201.5979	1202.5974	-6	123	132	R.EADDIVNWLK.K	
1485.7939	1486.7657	-24	123	134	R.EADDIVNWLK.K.R.T	
2984.4866	2985.5154	7	135	164	R.TGPAATLSDTAAAESLVDSEVTGIFFK.D	
1423.7711	1424.7783	0	198	209	K.YGLDKDGWLFK.K	
1551.8661	1552.8717	-1	198	210	K.YGLDKDGWLFK.K.F	
1654.7587	1655.7634	-2	211	224	K.FDEGRNFEGETK.E	
1911.8962	1912.9025	-1	211	226	K.FDEGRNFEGETK.E.L	
1964.0367	1965.0376	-3	233	249	K.HNQLPLVIEFTEGTAPK.I	
1458.6991	1459.6934	-9	266	278	K.SVSDYDGKLSNFK.K	
1586.794	1587.8044	2	266	279	K.SVSDYDGKLSNFK.K.A	
1832.9057	1833.9083	-3	288	302	K.ILFIFIDSDHTDNGR.I	
965.5586	966.5621	-4	303	310	R.ILEFFGLK.K	
1221.6162	1222.6202	-3	319	328	R.LITLLEEMTK.Y	Oxidation (M)
2612.2778	2613.325	15	319	340	R.LITLLEEMTKY.PESDELTAEK.I	Oxidation (M)
1408.6722	1409.6638	-12	329	340	K.YKPESDELTAEK.I	
2433.2362	2434.2498	3	353	372	K.IKPHLMSQELPEDWDKQPVK.V	Oxidation (M)
1722.8828	1723.8861	-2	373	387	K.VLVGKNFEVAFDEK.K	
1850.9778	1852.0033	10	373	388	K.VLVGKNFEVAFDEK.K.N	
1226.5455	1227.5547	2	378	387	K.NFEVAFDEK.K	
1354.6405	1355.6454	-2	378	388	K.NFEVAFDEK.K.N	
1728.9046	1729.9036	-5	412	426	K.LGETYKDHENVIK.M	
2202.0991	2203.1057	0	427	446	K.MDSTANEVAVKVSFPTLK.F	
2218.094	2219.1016	0	427	446	K.MDSTANEVAVKVSFPTLK.F	
909.4345	910.4419	0	447	454	K.FFPASADR.T	Oxidation (M)
1956.933	1957.9414	1	447	463	K.FFPASADRTVIDYNGER.T	
1065.5091	1066.5128	-3	455	463	R.TVIDYNGER.T	

# Spot 352 (B5 20080606) - COP9 signalosome complex subunit 4 (Cops4)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 58128] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 21



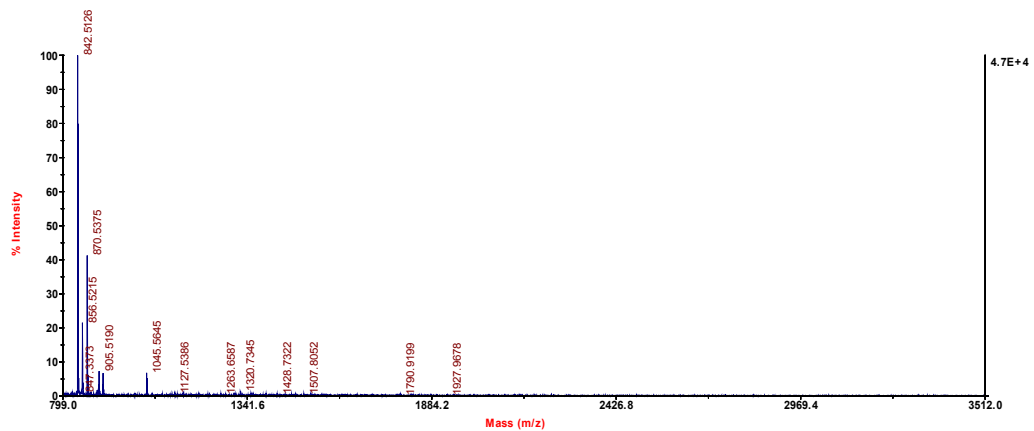
Spot 352 (20080606-B5) Cops4						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
834.4468	834.4577	13	201	207	FIEAAQR	
962.5417	962.5405	-1	200	207	KFIEAAQR	
1121.5619	1121.5663	4	338	347	IASGMITEGR	
1206.5961	1206.5956	0	291	302	ATTADGSSILDR	
1239.6401	1239.6414	1	245	254	MLATLFKDER	
1281.7161	1281.6975	-15	303	314	AVIEHNLLSASK	
1377.7372	1377.7427	4	96	107	VISFEEQVASIR	
1377.7372	1377.7427	4	96	107	VISFEEQVASIR	12
2023.9607	2023.9435	-8	154	170	LYLEDDDPVQAEAYINR	
2023.9607	2023.9435	-8	154	170	LYLEDDDPVQAEAYINR	21
3030.4771	3030.4241	-17	275	302	GNQLQEFAAMLPHQKATTADGSSILDR	

Spot 352 (20080606-B5) Cops4						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score
1376.73	1377.7421	4	96	107	R.VISFEEQVASIR.Q	
2022.9534	2023.9425	-9	154	170	R.LYLEDDDPVQAEAYINR.A	
820.4555	821.459	-5	194	199	R.VLDYRR.K	
961.5345	962.5381	-4	200	207	R.KFIEAAQR.Y	
833.4395	834.4591	15	201	207	K.FIEAAQR.Y	
1238.6329	1239.6398	0	245	254	R.MLATLFKDER.C	
2224.1609	2225.1296	-17	272	290	R.IIRGNLQEFAAMLPHQK.A	
3029.4699	3030.4172	-20	275	302	R.GNQLQEFAAMLPHQKATTADGSSILDR.A	
1205.5888	1206.5944	-1	291	302	K.ATTADGSSILDR.A	
1280.7088	1281.7002	-12	303	314	R.AVIEHNLLSASK.L	
1120.5546	1121.5657	3	338	347	K.IASGMITEGR.M	
1990.9571	1991.9879	12	348	364	R.MNGFIDQIGIVHFETR.E	



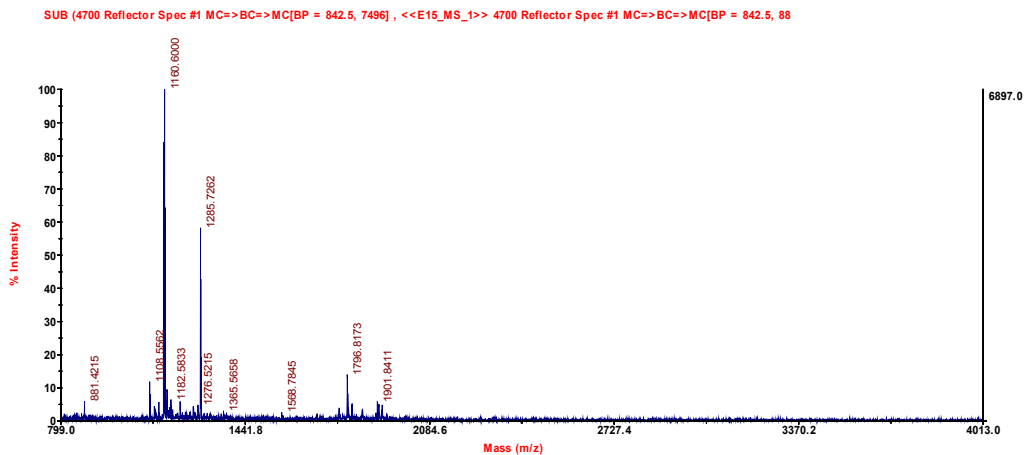
# Spot 356 (B15 20080606) - Splicing factor 3a, subunit 1 (Sf3a1)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 61229] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 21



Spot 356 (20080606-B15) Sf3a1						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
						Ion Score
						C.I.%
						Modification
1319.7197	1320.7345	6	51	62	R.NIVDKTASFYAR.N	
918.4195	919.4335	7	63	70	R.NGPEFEAR.I	
1324.6986	1325.6404	-49	103	115	K.EGKAQEPSAIPK.V	
1926.9562	1927.9678	1	116	131	K.VMQQQQATGQGLPQK.V	Oxidation (M)
904.513	905.519	-1	169	176	K.LTAQFVAR.N	
879.4702	880.4664	-13	211	217	K.LVGEYTK.I	
846.3476	847.3373	-21	423	428	K.MQEHMR.I	Oxidation (M)
1506.793	1507.8052	3	472	485	R.TDIFGVEETAIGKK.I	
1427.7143	1428.7322	7	486	497	K.IGEEIIGKPEEK.V	
841.5021	842.5126	4	699	706	R.NKGPVSIK.V	
1126.5441	1127.5386	-11	742	752	K.IHEATGMPAGK.Q	

## Spot 360 (E3 20070719) – Proteasome subunit alpha type 6 (Psm $\alpha$ 6)

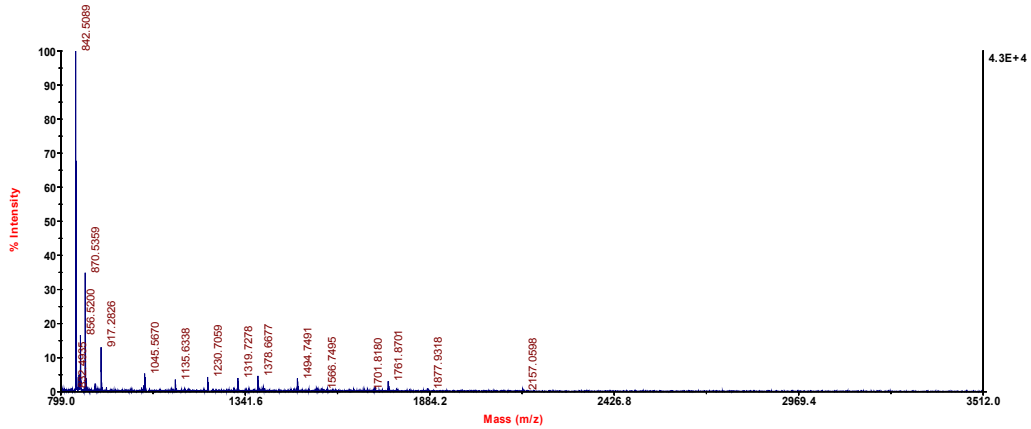


Spot 360 (20070719-E3) Psm $\alpha$ 6						
MS+MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	
881.4151	881.4256	12	96	102	YEAA $\text{N}^{\text{W}}$ K	Ion Score
1108.5535	1108.5562	2	94	102	ARYEA $\text{A}^{\text{N}^{\text{W}}}$ K	C.I.%
1108.5535	1108.5562	2	94	102	ARYEA $\text{A}^{\text{N}^{\text{W}}}$ K	Modification
1156.611	1156.6102	-1	12	21	HITIFSPEGR	
1160.5986	1160.5981	0	22	30	LYQVEYAFK	
1160.5986	1160.5981	0	22	30	LYQVEYAFK	44
1285.7223	1285.726	3	31	43	AINQGG $\text{LTSVAVR}$	99.996
1285.7223	1285.726	3	31	43	AINQGG $\text{LTSVAVR}$	10
1285.7223	1285.726	3	31	43	AINQGG $\text{LTSVAVR}$	90.066
1767.9122	1767.9266	8	165	181	ATAAGV $\text{KQTESTSFLEK}$	
1794.8441	1794.8049	-22	103	116	YKYGYEIPV $\text{DMLCK}$	
1933.9514	1933.9553	2	4	21	GSSAGFDRHITIFSPEGR	Carbamidomethyl (C); Oxidation (M)

Spot 360 (20070719-E3) Psm $\alpha$ 6						
PMF/MALDI						
Calculated	Observed	+/-ppm	start	end	Sequence	
1932.9442	1933.9255	-13	4	21	R.GSSAGFDRHITIFSPEGR.L	Ion Score
1155.6037	1156.6105	0	12	21	R.HITIFSPEGR.L	C.I.%
1159.5913	1160.6	1	22	30	R.LYQVEYAFK.A	Modification
1284.715	1285.7262	3	31	43	K.AINQGG $\text{LTSVAVR.G}$	
1107.5451	1108.5562	3	94	102	R.ARYEA $\text{A}^{\text{N}^{\text{W}}}$ .Y	
880.4079	881.4215	7	96	102	R.YEAA $\text{N}^{\text{W}}.Y$	
1766.905	1767.9244	7	165	181	K.ATAAGV $\text{KQTESTSFLEK.K}$	
1168.5612	1169.5929	21	172	181	K.QTESTSFLEK.K	

# Spot 375 (A8 20080606) – mixture of: Ras-related protein Rab-2A (Rab2a) and Protein DJ-1 (Park7, Cap1)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 68207] , <<A1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 21



## Spot 375 (20080606.A8) Rab2a

MS+MS/MS								
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification
1036.5057	1036.5148	9	131	139	KEEGEAFAR			
1036.5057	1036.5148	9	131	139	KEEGEAFAR			
1045.5425	1045.5641	21	70	77	SITRSYYR			
1135.6357	1135.6366	1	9	19	YIIIGDTGVGK	51	99.999	
1135.6357	1135.6366	1	9	19	YIIIGDTGVGK			
1319.7317	1319.7283	-3	78	90	GAAGALLYVDITR	13	94.86	
1319.7317	1319.7283	-3	78	90	GAAGALLYVDITR			
1378.6671	1378.6672	0	140	151	EHGLIFMETSAR			Oxidation (M)
1378.6671	1378.6672	0	140	151	EHGLIFMETSAR			Oxidation (M)
1494.7434	1494.7462	2	152	165	TASNVEEAFINTAK	29	99.874	
1494.7434	1494.7462	2	152	165	TASNVEEAFINTAK			
1560.7598	1560.7543	-4	57	69	LOIWDTAGQESFR			
1760.8813	1760.8767	-3	171	186	IQEGVFDINNEANGIK			
2157.071	2157.0581	-6	152	170	TASNVEEAFINTAKEIYEK			

## Spot 375 (20080606.A8) Rab2a

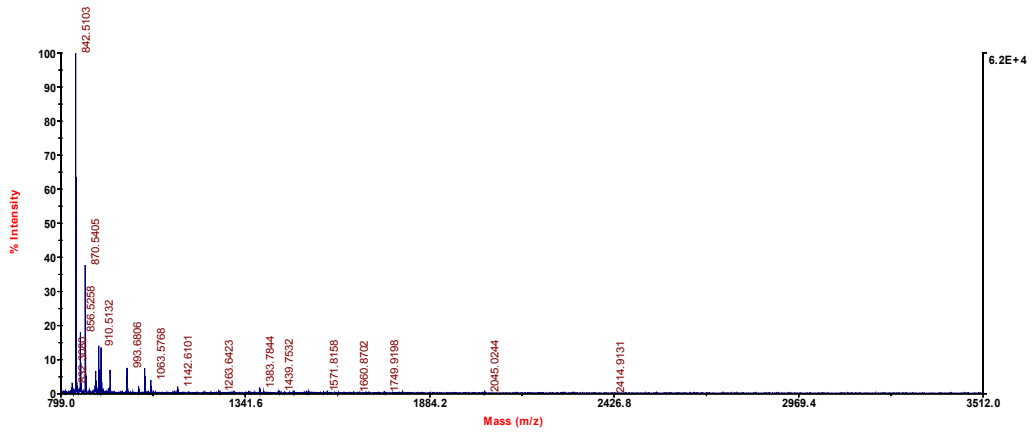
PMF/MALDI								
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification
1134.6285	1135.6338	-2	9	19	K.YIIIGDTGVGK.S			
1380.7071	1381.6903	-17	20	30	K.SCLLLOFTDKR.F			
1549.7525	1560.7616	1	57	69	K.LOIWDTAGQESFR.S			
1044.5352	1045.567	23	70	77	R.SITRSYYR.G			
1318.7245	1319.7278	-3	78	90	R.GAAGALLYVDITR.R			
1717.806	1718.8014	-7	92	105	R.DTFNHLLTWLEDAR.Q			
1700.8338	1701.818	-14	106	120	R.QHSNSNMVIMLGNK.S			Oxidation (M)
1391.7045	1392.7074	-3	128	139	R.EVKKEEGEAFAR.E			
1035.4985	1036.5099	4	131	139	K.KEEGEEAFAR.E			
1377.6598	1378.6677	0	140	151	R.EHGLIFMETSAR.T			Oxidation (M)
1493.7362	1494.7491	4	152	165	K.TASNVEEAFINTAK.E			
2156.0637	2157.0598	-5	152	170	K.TASNVEEAFINTAKEIYEK.I			

## Spot 375 (20080606.A8) Park7, Cap1

MS+MS/MS								
Calculated	Observed	+/-ppm	start	end	Sequence	Ion Score	C.I.%	Modification
852.4937	852.4966	3	123	130	VTSHPLAK			
874.4992	874.5023	4	149	156	DGLILTSR			
1230.7052	1230.7036	-1	146	156	VEKDGLILTSR			
1230.7052	1230.7036	-1	146	156	VEKDGLILTSR	28	99.826	
1721.8085	1721.797	-7	13	27	GAEEMETVIPVDIMR			2 Oxidation (M)
1877.9095	1877.9126	2	13	28	GAEEMETVIPVDIMR			2 Oxidation (M)

# Spot 379 (D5 20080606) – mixture of: Platelet-activating factor acetylhydrolase 1B subunit beta (Pafah1b2) and Isoamyl acetate-hydrolyzing esterase 1 homolog (Iah1)

SUB (4700 Reflector Spec #1 MC=>BC=>MC[BP = 842.5, 66581] , <<C1\_MS\_1>> 4700 Reflector Spec #1 MC=>BC=>MC[BP = 882.6, 67



Spot 379 (20080606-D5) Pafah1b2						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	
						Ion Score
						C.I.%
						Modification
910.5104	910.5142	4	143	150	GEKPNPLR	29
910.5104	910.5142	4	143	150	GEKPNPLR	99.624
993.6818	993.682	0	134	142	IVLGLLLPR	
993.6818	993.682	0	134	142	IVLGLLLPR	26
1027.6259	1027.6255	0	153	161	NAKVNQLLK	99.656
1027.6259	1027.6255	0	153	161	NAKVNQLLK	96.599
1141.6211	1141.6268	5	87	96	NGELENIKPK	
2045.045	2045.0251	-10	61	79	ELFSPHALNFGIGDIT	

Spot 379 (20080606-D5) Iah1						
MS•MS/MS						
Calculated	Observed	+/-ppm	start	end	Sequence	
						Ion Score
						C.I.%
						Modification
901.4162	901.4185	3	53	60	GFSGYNTR	
901.4162	901.4185	3	53	60	GFSGYNTR	
904.4669	904.4306	-40	46	52	KCDVLNFR	
940.4556	940.4541	-2	113	119	DMVQYLR	
943.5206	943.5217	1	120	127	SVDIPKER	16
943.5206	943.5217	1	120	127	SVDIPKER	97.003
993.6931	993.682	-11	64	71	ILLPRIIR	
993.6931	993.682	-11	64	71	ILLPRIIR	
1063.5782	1063.5775	-1	155	164	LNVAVGEYAK	
1063.5782	1063.5775	-1	155	164	LNVAVGEYAK	21
1794.8401	1794.8553	8	172	186	DCGTDVLDLWTLMQK	98.992

