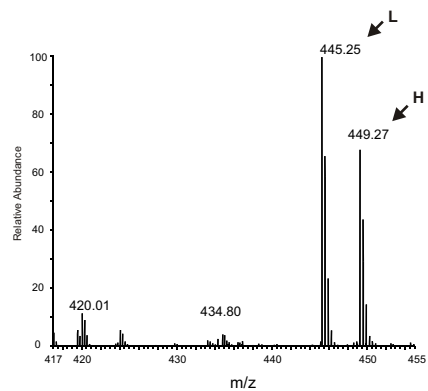
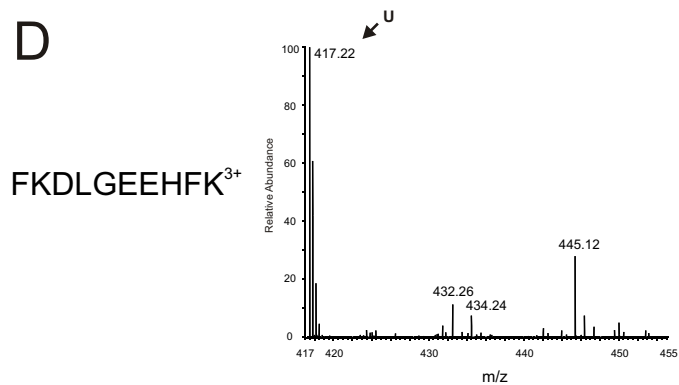
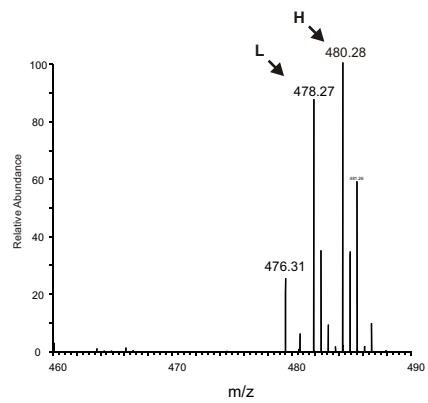
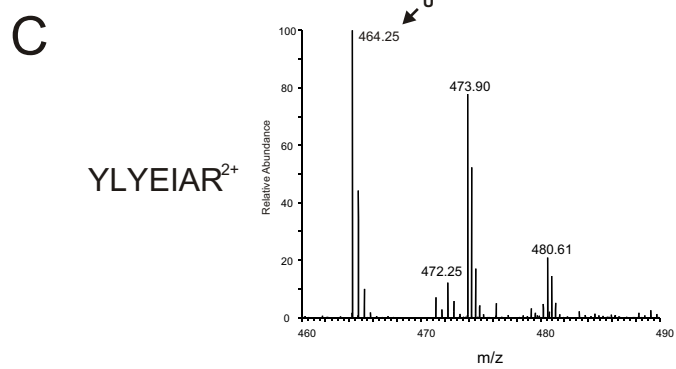
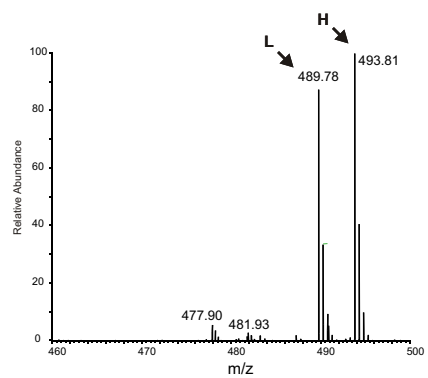
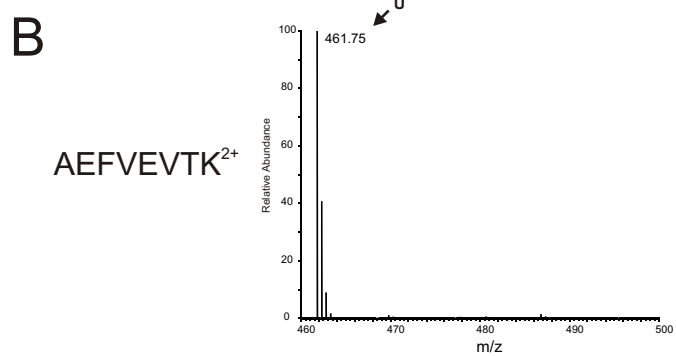
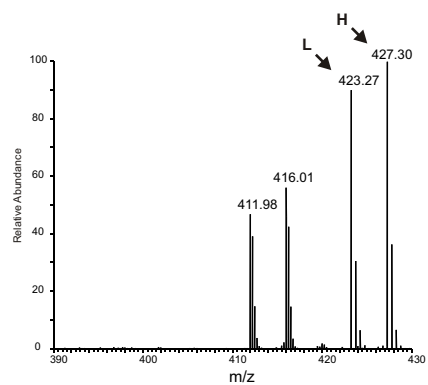
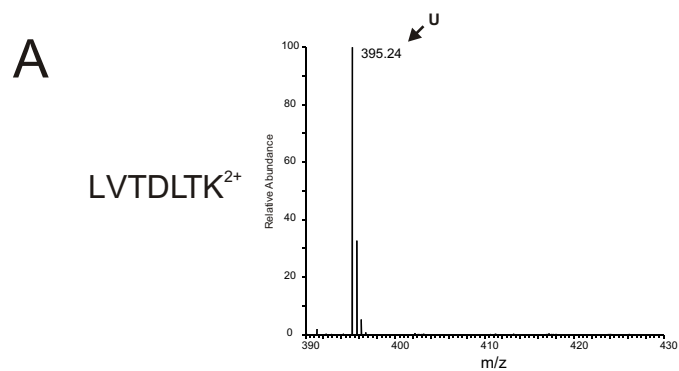


Figure S1

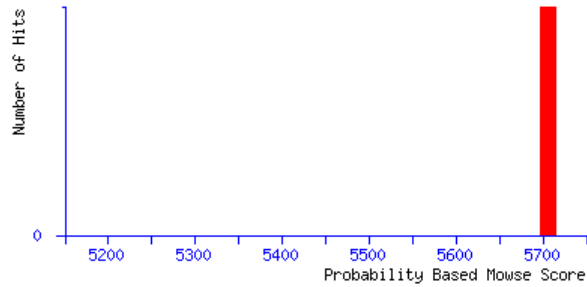


MASCOT Mascot Search Results

Database : BSA (7 sequences; 1961 residues)
 Protein hits : [BSA](#) BSA

Probability Based Mowse Score

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event. Individual ions scores > 1 indicate identity or extensive homology ($p < 0.05$). Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



Peptide Summary Report

Format As Peptide Summary [Help](#)

Significance threshold $p <$ Max. number of hits

Standard scoring MudPIT scoring Ions score or expect cut-off Show sub-sets

Show pop-ups Suppress pop-ups Sort unassigned Require bold red

Error tolerant

1. [BSA](#) Mass: 73508 Score: 5705 Queries matched: 157 emPAI: 13.22

BSA

Check to include this hit in error tolerant search or archive report

	Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/>	141	407.7479	813.4812	813.4782	3.70	0	(40)	0.00011	1	K_GACLLPK.I + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	147	411.7723	821.5301	821.5285	1.95	0	53	5e-006	1	K_GACLLPK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	148	411.7728	821.5310	821.5285	3.15	0	(39)	0.00012	1	K_GACLLPK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	149	411.7730	821.5315	821.5285	3.73	0	(39)	0.00012	1	K_GACLLPK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

<input checked="" type="checkbox"/>	173	423.2715	844.5284	844.5270	1.72	0	(40)	0.00011	1	K_LVTDLTK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	174	423.2715	844.5284	844.5270	1.72	0	(32)	0.00059	1	K_LVTDLTK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	175	423.2717	844.5288	844.5270	2.16	0	(45)	3.4e-005	1	K_LVTDLTK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	176	423.2719	844.5293	844.5270	2.81	0	(47)	2.2e-005	1	K_LVTDLTK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	177	423.2720	844.5295	844.5270	3.02	0	(47)	2.1e-005	1	K_LVTDLTK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	194	427.2967	852.5789	852.5772	1.99	0	(39)	0.00012	1	K_LVTDLTK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	195	427.2968	852.5790	852.5772	2.13	0	(47)	2.1e-005	1	K_LVTDLTK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	196	427.2968	852.5790	852.5772	2.13	0	(30)	0.0011	1	K_LVTDLTK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	197	427.2973	852.5800	852.5772	3.28	0	47	2.1e-005	1	K_LVTDLTK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	198	427.2976	852.5807	852.5772	4.07	0	(36)	0.00028	1	K_LVTDLTK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	289	478.2671	954.5197	954.5174	2.41	0	(35)	0.0003	1	K_YLYEIAR.R + Dimethyl (N-term)
<input checked="" type="checkbox"/>	290	478.2676	954.5207	954.5174	3.45	0	35	0.0003	1	K_YLYEIAR.R + Dimethyl (N-term)
<input checked="" type="checkbox"/>	319	481.8016	961.5887	961.5870	1.74	0	39	0.00012	1	R_LCVLHEK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	351	489.7799	977.5453	977.5433	2.03	0	(54)	4.1e-006	1	K_AEFVEVTK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	352	489.7799	977.5453	977.5433	2.03	0	(51)	7.3e-006	1	K_AEFVEVTK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	353	489.7801	977.5457	977.5433	2.41	0	(54)	4.4e-006	1	K_AEFVEVTK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	354	489.7802	977.5458	977.5433	2.47	0	(43)	5.1e-005	1	K_AEFVEVTK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	356	489.7807	977.5469	977.5433	3.66	0	(29)	0.0012	1	K_AEFVEVTK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	393	493.8046	985.5947	985.5936	1.15	0	(48)	1.7e-005	1	K_AEFVEVTK.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	395	493.8051	985.5957	985.5936	2.14	0	54	3.9e-006	1	K_AEFVEVTK.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	396	493.8052	985.5959	985.5936	2.39	0	(48)	1.5e-005	1	K_AEFVEVTK.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	397	493.8055	985.5965	985.5936	2.95	0	(51)	7.2e-006	1	K_AEFVEVTK.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	399	493.8062	985.5979	985.5936	4.37	0	(28)	0.0014	1	K_AEFVEVTK.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	500	515.7645	1029.5144	1029.5131	1.25	0	44	3.9e-005	1	K_DLGEEHFK.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	501	344.1788	1029.5145	1029.5131	1.35	0	(27)	0.0019	1	K_DLGEEHFK.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	555	519.7896	1037.5647	1037.5633	1.30	0	(44)	4e-005	1	K_DLGEEHFK.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	556	346.8622	1037.5647	1037.5633	1.34	0	(30)	0.00098	1	K_DLGEEHFK.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	645	539.8727	1077.7309	1077.7249	5.60	0	50	1.1e-005	1	K_QTALVELLK.H + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	685	569.7532	1137.4918	1137.4907	0.98	0	(47)	2e-005	1	K_CCTESLVNR.R
<input checked="" type="checkbox"/>	719	582.2941	1162.5736	1162.5692	3.74	0	61	8.3e-007	1	K_EACFAVEGPK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	723	583.7686	1165.5227	1165.5220	0.64	0	63	5.1e-007	1	K_CCTESLVNR.R + Dimethyl (N-term)
<input checked="" type="checkbox"/>	724	583.7700	1165.5255	1165.5220	3.01	0	(54)	3.8e-006	1	K_CCTESLVNR.R + Dimethyl (N-term)
<input checked="" type="checkbox"/>	725	583.7701	1165.5257	1165.5220	3.22	0	(46)	2.3e-005	1	K_CCTESLVNR.R + Dimethyl (N-term)
<input checked="" type="checkbox"/>	733	585.7811	1169.5477	1169.5471	0.54	0	(28)	0.0017	1	K_CCTESLVNR.R + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	734	585.7829	1169.5512	1169.5471	3.55	0	(38)	0.00017	1	K_CCTESLVNR.R + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	735	585.7851	1169.5557	1169.5471	7.38	0	(32)	0.0007	1	K_CCTESLVNR.R + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	762	598.3503	1194.6861	1194.6798	5.32	0	(26)	0.0026	1	K_LVNELTEFAK.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	788	610.3533	1218.6921	1218.6860	5.05	0	(40)	0.00011	1	K_LVNELTEFAK.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	789	610.3538	1218.6930	1218.6860	5.75	0	47	2e-005	1	K_LVNELTEFAK.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	798	409.6089	1225.8048	1225.8009	3.19	1	44	4.1e-005	1	K_QTALVELLK.H + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	843	656.3776	1310.7406	1310.7347	4.52	0	46	2.5e-005	1	R_HPEYAVSVLLR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/>	856	445.2433	1332.7080	1332.7078	0.20	1	62	5.8e-007	1	R_FKDLGEEHFK.G + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	858	334.1849	1332.7106	1332.7078	2.16	1	(33)	0.00046	1	R_FKDLGEEHFK.G + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	871	449.2685	1344.7837	1344.7831	0.47	1	(45)	3.1e-005	1	R_FKDLGEEHFK.G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	890	681.3948	1360.7751	1360.7714	2.72	0	(49)	1.3e-005	1	K_HLVDEPQNLK.Q + Dimethyl (K); Dimethyl (N-term)

<input checked="" type="checkbox"/>	891	681.3965	1360.7785	1360.7714	5.23	0	(30)	0.001	1	K_HLVDEPQNLIK.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	892	681.3966	1360.7787	1360.7714	5.32	0	(33)	0.00048	1	K_HLVDEPQNLIK.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	893	681.3976	1360.7807	1360.7714	6.84	0	49	1.3e-005	1	K_HLVDEPQNLIK.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	901	685.4216	1368.8287	1368.8217	5.16	0	(44)	4.2e-005	1	K_HLVDEPQNLIK.Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	902	685.4222	1368.8299	1368.8217	6.05	0	(34)	0.0004	1	K_HLVDEPQNLIK.Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	903	685.4228	1368.8310	1368.8217	6.84	0	(44)	4.5e-005	1	K_HLVDEPQNLIK.Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	935	463.2625	1386.7658	1386.7640	1.28	0	(34)	0.00042	1	K_ECCDKPLLEK.S + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	936	463.2626	1386.7659	1386.7640	1.35	0	47	2e-005	1	K_ECCDKPLLEK.S + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	966	722.3250	1442.6354	1442.6347	0.42	0	(68)	1.7e-007	1	K_YICDNQDTISSK.L
<input checked="" type="checkbox"/>	991	489.9536	1466.8390	1466.8358	2.22	1	(56)	2.6e-006	1	R_RHPEYAVSVLLR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/>	992	489.9539	1466.8399	1466.8358	2.84	1	(54)	4e-006	1	R_RHPEYAVSVLLR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/>	993	489.9539	1466.8400	1466.8358	2.90	1	73	4.8e-008	1	R_RHPEYAVSVLLR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/>	994	489.9546	1466.8418	1466.8358	4.15	1	(69)	1.4e-007	1	R_RHPEYAVSVLLR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/>	1003	736.3835	1470.7525	1470.7429	6.58	0	69	1.3e-007	1	K_TVMEFVAFVVK.C + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	1004	491.2952	1470.8637	1470.8609	1.94	1	(33)	0.00049	1	R_RHPEYAVSVLLR.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1005	491.2955	1470.8647	1470.8609	2.62	1	(41)	8.5e-005	1	R_RHPEYAVSVLLR.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1014	738.3531	1474.6917	1474.6912	0.39	0	(65)	2.9e-007	1	K_YICDNQDTISSK.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1015	492.5912	1474.7516	1474.7490	1.79	0	(42)	6.5e-005	1	K_SLHTLFGDELCK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1016	492.5927	1474.7562	1474.7490	4.90	0	(33)	0.00053	1	K_SLHTLFGDELCK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1018	738.3861	1474.7577	1474.7490	5.88	0	(59)	1.2e-006	1	K_SLHTLFGDELCK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1019	738.3862	1474.7578	1474.7490	5.96	0	(52)	6.3e-006	1	K_SLHTLFGDELCK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1030	740.4084	1478.8023	1478.7931	6.26	0	(56)	2.3e-006	1	K_TVMEFVAFVVK.C + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	1034	495.2753	1482.8042	1482.7992	3.33	0	(35)	0.00035	1	K_SLHTLFGDELCK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1035	495.2760	1482.8063	1482.7992	4.75	0	(32)	0.0006	1	K_SLHTLFGDELCK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1036	742.4109	1482.8073	1482.7992	5.48	0	(38)	0.00015	1	K_SLHTLFGDELCK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1037	742.4119	1482.8093	1482.7992	6.80	0	65	2.9e-007	1	K_SLHTLFGDELCK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1052	750.3567	1498.6988	1498.6973	0.99	0	(67)	1.9e-007	1	K_YICDNQDTISSK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1053	750.3571	1498.6997	1498.6973	1.59	0	(61)	8e-007	1	K_YICDNQDTISSK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1054	750.3579	1498.7013	1498.6973	2.62	0	(67)	2.2e-007	1	K_YICDNQDTISSK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1055	750.3588	1498.7031	1498.6973	3.84	0	(60)	1e-006	1	K_YICDNQDTISSK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1056	750.3610	1498.7075	1498.6973	6.77	0	(67)	2e-007	1	K_YICDNQDTISSK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1077	754.3813	1506.7481	1506.7476	0.38	0	(70)	1e-007	1	K_YICDNQDTISSK.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1078	754.3828	1506.7511	1506.7476	2.32	0	(71)	7.3e-008	1	K_YICDNQDTISSK.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1079	754.3835	1506.7525	1506.7476	3.29	0	76	2.4e-008	1	K_YICDNQDTISSK.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1080	754.3841	1506.7537	1506.7476	4.08	0	(46)	2.4e-005	1	K_YICDNQDTISSK.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1081	754.3863	1506.7580	1506.7476	6.94	0	(72)	7e-008	1	K_YICDNQDTISSK.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1083	754.4207	1506.8268	1506.8194	4.85	0	(45)	3.1e-005	1	K_LGEYGFQNALIVR.Y + Dimethyl (N-term)
<input checked="" type="checkbox"/>	1084	754.4216	1506.8287	1506.8194	6.16	0	(74)	4.4e-008	1	K_LGEYGFQNALIVR.Y + Dimethyl (N-term)
<input checked="" type="checkbox"/>	1085	754.4221	1506.8297	1506.8194	6.82	0	110	1.1e-011	1	K_LGEYGFQNALIVR.Y + Dimethyl (N-term)
<input checked="" type="checkbox"/>	1100	756.4345	1510.8545	1510.8446	6.56	0	(73)	5e-008	1	K_LGEYGFQNALIVR.Y + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1101	756.4345	1510.8545	1510.8446	6.56	0	(86)	2.5e-009	1	K_LGEYGFQNALIVR.Y + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1102	756.4359	1510.8573	1510.8446	8.41	0	(68)	1.5e-007	1	K_LGEYGFQNALIVR.Y + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1122	507.2230	1518.6471	1518.6443	1.83	0	(49)	1.2e-005	1	K_TCVADESHAGCEK.S + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1160	509.9051	1526.6936	1526.6945	-0.58	0	67	2.1e-007	1	K_TCVADESHAGCEK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1189	767.7972	1533.5798	1533.5786	0.82	0	(31)	0.00083	1	R_ETYGDMADCEK.Q + Dimethyl (K); Dimethyl (N-term)

✓	1190	767.7979	1533.5812	1533.5786	1.70	0	(59)	1.1e-006	1	R_ETYGDMADCC CK .Q + Dimethyl (K); Dimethyl (N-term)
✓	1191	512.2012	1533.5819	1533.5786	2.16	0	(31)	0.00071	1	R_ETYGDMADCC CK .Q + Dimethyl (K); Dimethyl (N-term)
✓	1225	770.4440	1538.8735	1538.8668	4.34	0	36	0.00024	1	K_VPQVSTPTLVEVSR.S + Dimethyl (N-term)
✓	1239	771.8224	1541.6303	1541.6288	1.01	0	(59)	1.3e-006	1	R_ETYGDMADCC CK .Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	1240	771.8226	1541.6307	1541.6288	1.26	0	(44)	4.1e-005	1	R_ETYGDMADCC CK .Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	1241	771.8234	1541.6322	1541.6288	2.20	0	77	2.2e-008	1	R_ETYGDMADCC CK .Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	1271	775.7966	1549.5786	1549.5735	3.30	0	(36)	0.00023	1	R_ETYGDMADCC CK .Q + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
✓	1288	779.8191	1557.6237	1557.6237	0.01	0	(56)	2.8e-006	1	R_ETYGDMADCC CK .Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
✓	1289	779.8215	1557.6285	1557.6237	3.09	0	(43)	5.4e-005	1	R_ETYGDMADCC CK .Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
✓	1290	779.8444	1557.6743	1557.6691	3.36	0	56	2.4e-006	1	K_EYEATLECC CAK .D + Dimethyl (K); Dimethyl (N-term)
✓	1304	783.8691	1565.7236	1565.7193	2.76	0	(54)	4.1e-006	1	K_EYEATLECC CAK .D + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	1338	798.3956	1594.7767	1594.7667	6.26	0	82	5.9e-009	1	K_DAF LG SFLYEYSR.R + Dimethyl (N-term)
✓	1343	800.4080	1598.8014	1598.7919	5.95	0	(75)	3.1e-008	1	K_DAF LG SFLYEYSR.R + Dimethyl:2H(4) (N-term)
✓	1347	537.5796	1609.7169	1609.7083	5.39	0	(41)	8e-005	1	K_DDPHACYSTVFD K .L + Dimethyl (K); Dimethyl (N-term)
✓	1359	540.2629	1617.7670	1617.7585	5.25	0	46	2.7e-005	1	K_DDPHACYSTVFD K .L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	1380	411.9836	1643.9053	1643.8990	3.86	1	27	0.0022	1	K_LKECCDK PLLEK .S + 3 Dimethyl (K); Dimethyl (N-term)
✓	1463	566.0049	1694.9927	1694.9931	-0.21	1	(28)	0.0017	1	R_KVPQVSTPTLVEVSR.S + Dimethyl (K); Dimethyl (N-term)
✓	1464	566.0075	1695.0007	1694.9931	4.51	1	(36)	0.00028	1	R_KVPQVSTPTLVEVSR.S + Dimethyl (K); Dimethyl (N-term)
✓	1465	566.0080	1695.0022	1694.9931	5.36	1	54	4.2e-006	1	R_KVPQVSTPTLVEVSR.S + Dimethyl (K); Dimethyl (N-term)
✓	1485	568.6872	1703.0397	1703.0433	-2.10	1	(50)	9e-006	1	R_KVPQVSTPTLVEVSR.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	1486	568.6914	1703.0524	1703.0433	5.34	1	(39)	0.00012	1	R_KVPQVSTPTLVEVSR.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	1527	433.2145	1728.8288	1728.8253	2.01	1	30	0.00096	1	K_QEPERNECFLSH K .D + Dimethyl (K); Dimethyl (N-term)
✓	1585	884.9406	1767.8667	1767.8535	7.47	0	92	5.9e-010	1	R_MPCTEDYLSLILNR.L + Dimethyl (N-term); Oxidation (M)
✓	1590	593.2371	1776.6895	1776.6866	1.68	0	(57)	2.2e-006	1	K_ECCHGD LLE CADDR.A + Dimethyl (N-term)
✓	1591	593.2372	1776.6897	1776.6866	1.78	0	76	2.7e-008	1	K_ECCHGD LLE CADDR.A + Dimethyl (N-term)
✓	1598	594.5789	1780.7149	1780.7117	1.83	0	(42)	7e-005	1	K_ECCHGD LLE CADDR.A + Dimethyl:2H(4) (N-term)
✓	1599	594.5792	1780.7157	1780.7117	2.27	0	(30)	0.0011	1	K_ECCHGD LLE CADDR.A + Dimethyl:2H(4) (N-term)
✓	1615	902.3893	1802.7640	1802.7604	2.03	0	(53)	5.4e-006	1	K_YNGVFQ ECCQAEDK .G + Dimethyl (K); Dimethyl (N-term)
✓	1616	601.9293	1802.7660	1802.7604	3.10	0	(48)	1.5e-005	1	K_YNGVFQ ECCQAEDK .G + Dimethyl (K); Dimethyl (N-term)
✓	1617	601.9295	1802.7667	1802.7604	3.53	0	(50)	1.1e-005	1	K_YNGVFQ ECCQAEDK .G + Dimethyl (K); Dimethyl (N-term)
✓	1618	601.9297	1802.7672	1802.7604	3.81	0	(55)	3.2e-006	1	K_YNGVFQ ECCQAEDK .G + Dimethyl (K); Dimethyl (N-term)
✓	1619	601.9298	1802.7677	1802.7604	4.08	0	(41)	8.5e-005	1	K_YNGVFQ ECCQAEDK .G + Dimethyl (K); Dimethyl (N-term)
✓	1620	601.9299	1802.7680	1802.7604	4.22	0	(38)	0.00015	1	K_YNGVFQ ECCQAEDK .G + Dimethyl (K); Dimethyl (N-term)
✓	1621	902.3916	1802.7687	1802.7604	4.60	0	(51)	8.4e-006	1	K_YNGVFQ ECCQAEDK .G + Dimethyl (K); Dimethyl (N-term)
✓	1622	902.3916	1802.7687	1802.7604	4.64	0	(52)	5.6e-006	1	K_YNGVFQ ECCQAEDK .G + Dimethyl (K); Dimethyl (N-term)
✓	1623	902.3917	1802.7688	1802.7604	4.67	0	(59)	1.1e-006	1	K_YNGVFQ ECCQAEDK .G + Dimethyl (K); Dimethyl (N-term)
✓	1624	902.3921	1802.7696	1802.7604	5.10	0	79	1.3e-008	1	K_YNGVFQ ECCQAEDK .G + Dimethyl (K); Dimethyl (N-term)
✓	1625	902.3921	1802.7697	1802.7604	5.19	0	(59)	1.2e-006	1	K_YNGVFQ ECCQAEDK .G + Dimethyl (K); Dimethyl (N-term)
✓	1626	902.3921	1802.7697	1802.7604	5.19	0	(72)	5.7e-008	1	K_YNGVFQ ECCQAEDK .G + Dimethyl (K); Dimethyl (N-term)
✓	1646	604.6125	1810.8157	1810.8106	2.83	0	(41)	8.1e-005	1	K_YNGVFQ ECCQAEDK .G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	1647	604.6128	1810.8166	1810.8106	3.29	0	(47)	2.2e-005	1	K_YNGVFQ ECCQAEDK .G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	1648	604.6129	1810.8169	1810.8106	3.49	0	(47)	2.2e-005	1	K_YNGVFQ ECCQAEDK .G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	1649	604.6133	1810.8180	1810.8106	4.10	0	(45)	3e-005	1	K_YNGVFQ ECCQAEDK .G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	1650	906.4168	1810.8191	1810.8106	4.68	0	(63)	5.4e-007	1	K_YNGVFQ ECCQAEDK .G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	1651	906.4171	1810.8196	1810.8106	4.95	0	(77)	1.8e-008	1	K_YNGVFQ ECCQAEDK .G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

<input checked="" type="checkbox"/>	1652	906.4171	1810.8197	1810.8106	5.01	0	(65)	3.3e-007	1	K_YNGVVFQECQAEDK.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1653	906.4171	1810.8197	1810.8106	5.04	0	(63)	5.5e-007	1	K_YNGVVFQECQAEDK.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1654	906.4172	1810.8199	1810.8106	5.15	0	(63)	4.6e-007	1	K_YNGVVFQECQAEDK.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1655	906.4176	1810.8207	1810.8106	5.59	0	(69)	1.4e-007	1	K_YNGVVFQECQAEDK.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1711	646.3357	1935.9853	1935.9764	4.56	0	(37)	0.0002	1	R_RPCFSALTPDETYVPK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1714	646.3372	1935.9898	1935.9764	6.92	0	(35)	0.00032	1	R_RPCFSALTPDETYVPK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1721	649.0204	1944.0393	1944.0267	6.51	0	42	6.4e-005	1	R_RPCFSALTPDETYVPK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1737	655.3337	1962.9792	1962.9761	1.58	0	49	1.2e-005	1	K_LFTFHADICTLPDTEK.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1738	655.3358	1962.9856	1962.9761	4.84	0	(30)	0.001	1	K_LFTFHADICTLPDTEK.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1739	655.3359	1962.9858	1962.9761	4.94	0	(35)	0.00029	1	K_LFTFHADICTLPDTEK.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1776	658.0196	1971.0369	1971.0263	5.38	0	(36)	0.00028	1	K_LFTFHADICTLPDTEK.Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1843	671.3062	2010.8968	2010.8849	5.92	1	46	2.3e-005	1	K_CCAADKKEACFAVEGPK.L + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1845	675.3312	2022.9719	2022.9603	5.75	1	(32)	0.00065	1	K_CCAADKKEACFAVEGPK.L + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1878	533.7814	2131.0966	2131.0871	4.48	1	27	0.0019	1	K_LKPDPTLCLDEFKADEK.K + 3 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1891	543.2455	2168.9527	2168.9401	5.80	1	41	8.5e-005	1	K_VHKECCHGDLLECADDR.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1898	544.2455	2172.9527	2172.9653	-5.77	1	(32)	0.00065	1	K_VHKECCHGDLLECADDR.A + Dimethyl (N-term); Dimethyl:2H(4) (K)
<input checked="" type="checkbox"/>	1914	730.6315	2188.8728	2188.8711	0.76	1	44	4e-005	1	R_ETYGDMADCCEKQEPER.N + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	1921	733.3138	2196.9195	2196.9213	-0.83	1	(39)	0.00013	1	R_ETYGDMADCCEKQEPER.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)

Search Parameters

Type of search : MS/MS Ion Search
 Enzyme : Trypsin
 Fixed modifications : Carbamidomethyl (C)
 Variable modifications : Dimethyl (K),Dimethyl (N-term),Dimethyl:2H(4) (K),Dimethyl:2H(4) (N-term),Oxidation (M)
 Mass values : Monoisotopic
 Protein Mass : Unrestricted
 Peptide Mass Tolerance : ± 10 ppm
 Fragment Mass Tolerance: ± 0.9 Da

 Instrument type : Default
 Number of queries : 1992

Mascot Search Results

Database : IPI_mouse mouse_v3.36 (51326 sequences; 23682061 residues)

Protein hits : [IPI00874482](#) Tax_Id=10090 Gene_Symbol=Actg1 Actin, cytoplasmic 2
[IPI00405227](#) Tax_Id=10090 Gene_Symbol=Vcl Vinculin
[IPI00131695](#) Tax_Id=10090 Gene_Symbol=Alb Serum albumin precursor
[IPI00131830](#) Tax_Id=10090 Gene_Symbol=Serpina3k Serine protease inhibitor A3K precursor
[IPI00465786](#) Tax_Id=10090 Gene_Symbol=Tln1 Talin-1
[IPI00136929](#) Tax_Id=10090 Gene_Symbol=Actg1 Gamma actin-like protein
[IPI00114375](#) Tax_Id=10090 Gene_Symbol=Dpysl2 Dihydropyrimidinase-related protein 2
[IPI00405058](#) Tax_Id=10090 Gene_Symbol=Hnrnpa2b1 Isoform 3 of Heterogeneous nuclear ribonucleoproteins A2/B1
[IPI00128642](#) Tax_Id=10090 Gene_Symbol=Cbr2 Lung carbonyl reductase
[IPI00229080](#) Tax_Id=10090 Gene_Symbol=Hsp90ab1 Heat shock protein 84b
[IPI00554929](#) Tax_Id=10090 Gene_Symbol=Hsp90ab1 Heat shock protein HSP 90-beta
[IPI00132722](#) Tax_Id=10090 Gene_Symbol=Anxa3 Annexin A3
[IPI00323357](#) Tax_Id=10090 Gene_Symbol=Hspa8 Heat shock cognate 71 kDa protein
[IPI00135284](#) Tax_Id=10090 Gene_Symbol=LOC100044454;LOC100039214 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1
[IPI00123313](#) Tax_Id=10090 Gene_Symbol=Ubely1;Ubelx Ubiquitin-activating enzyme E1 X
[IPI00221402](#) Tax_Id=10090 Gene_Symbol=Aldoa Fructose-bisphosphate aldolase A
[IPI00330804](#) Tax_Id=10090 Gene_Symbol=Hsp90aa1 Heat shock protein HSP 90-alpha
[IPI00135635](#) Tax_Id=10090 Gene_Symbol=Serpina3m Serine protease inhibitor A3M precursor
[IPI00317309](#) Tax_Id=10090 Gene_Symbol=Anxa5 Annexin A5
[IPI00387422](#) Tax_Id=10090 Gene_Symbol=Zyx zyxin
[IPI00553333](#) Tax_Id=10090 Gene_Symbol=Hbb-b1 Hemoglobin subunit beta-1
[IPI00113223](#) Tax_Id=10090 Gene_Symbol=Fasn Fatty acid synthase
[IPI00221528](#) Tax_Id=10090 Gene_Symbol=4732495G21Rik 10 days neonate skin cDNA, RIKEN full-length enriched library, clone:4732493G14 product:ACTIN, CYTOP.
[IPI00123924](#) Tax_Id=10090 Gene_Symbol=Serpinald Alpha-1-antitrypsin 1-4 precursor
[IPI00469114](#) Tax_Id=10090 Gene_Symbol=Hba-a1;Hba-a2 Hemoglobin subunit alpha
[IPI00169463](#) Tax_Id=10090 Gene_Symbol=Tubb2c Tubulin beta-2C chain
[IPI00169916](#) Tax_Id=10090 Gene_Symbol=Cltc Clathrin heavy chain
[IPI00131138](#) Tax_Id=10090 Gene_Symbol=Flna Isoform 1 of Filamin-A
[IPI00380873](#) Tax_Id=10090 Gene_Symbol=Sec14l3 Novel protein, ortholog of human and rat SEC14-like 3 (S. cerevisiae) SEC14L3
[IPI00110753](#) Tax_Id=10090 Gene_Symbol=Tuba1a Tubulin alpha-1A chain
[IPI00117352](#) Tax_Id=10090 Gene_Symbol=Tubb5 Tubulin beta-5 chain
[IPI00624663](#) Tax_Id=10090 Gene_Symbol=Pzp Alpha-2-macroglobulin precursor
[IPI00622235](#) Tax_Id=10090 Gene_Symbol=Vcp Transitional endoplasmic reticulum ATPase
[IPI00230395](#) Tax_Id=10090 Gene_Symbol=Anxa1 Annexin A1
[IPI00139788](#) Tax_Id=10090 Gene_Symbol=Trf Serotransferrin precursor
[IPI00109073](#) Tax_Id=10090 Gene_Symbol=Tubb4 Tubulin beta-4 chain
[IPI00316491](#) Tax_Id=10090 Gene_Symbol=Hbb-b2 Hemoglobin subunit beta-2
[IPI00117857](#) Tax_Id=10090 Gene_Symbol=Spi1-6 Alpha-1-antitrypsin 1-6 precursor
[IPI00318614](#) Tax_Id=10090 Gene_Symbol=Idh2 Isocitrate dehydrogenase [NADP], mitochondrial precursor
[IPI00323816](#) Tax_Id=10090 Gene_Symbol=Selenbp2 Selenium-binding protein 2
[IPI00323592](#) Tax_Id=10090 Gene_Symbol=Mdh2 Malate dehydrogenase, mitochondrial precursor
[IPI00127560](#) Tax_Id=10090 Gene_Symbol=Ttr Transthyretin precursor

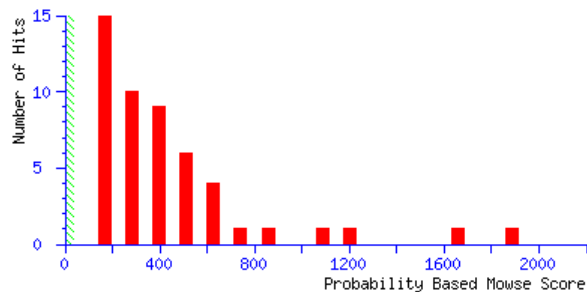
[IPI00555069](#) Tax_Id=10090 Gene_Symbol=Pgk1 Phosphoglycerate kinase 1
[IPI00132762](#) Tax_Id=10090 Gene_Symbol=Trap1 Heat shock protein 75 kDa, mitochondrial precursor
[IPI00128249](#) Tax_Id=10090 Gene_Symbol=Ahsg Alpha-2-HS-glycoprotein precursor
[IPI00126248](#) Tax_Id=10090 Gene_Symbol=Acly Adult male testis cDNA, RIKEN full-length enriched library, clone:4922505F07 product:ATP citrate lyase, full
[IPI00830223](#) Tax_Id=10090 Gene_Symbol=Tpm1 28 kDa protein
[IPI00648086](#) Tax_Id=10090 Gene_Symbol=Laspl LIM and SH3 protein 1
[IPI00121209](#) Tax_Id=10090 Gene_Symbol=Apoal Apolipoprotein A-I precursor
[IPI00555059](#) Tax_Id=10090 Gene_Symbol=Prdx6 Peroxiredoxin-6
[IPI00336324](#) Tax_Id=10090 Gene_Symbol=Mdh1 Malate dehydrogenase, cytoplasmic
[IPI00323624](#) Tax_Id=10090 Gene_Symbol=C3 Isoform Long of Complement C3 precursor (Fragment)
[IPI00355382](#) Tax_Id=10090 Gene_Symbol=Wars Isoform 2 of Tryptophanyl-tRNA synthetase, cytoplasmic
[IPI00318671](#) Tax_Id=10090 Gene_Symbol=Ehd4 EH-domain containing 4-KJR (Fragment)
[IPI00380436](#) Tax_Id=10090 Gene_Symbol=Actn1 Alpha-actinin-1
[IPI00136906](#) Tax_Id=10090 Gene_Symbol=Capg Macrophage-capping protein
[IPI00123223](#) Tax_Id=10090 Gene_Symbol=Mug1 Murinoglobulin-1 precursor
[IPI00319994](#) Tax_Id=10090 Gene_Symbol=Ldha L-lactate dehydrogenase A chain
[IPI00118899](#) Tax_Id=10090 Gene_Symbol=Actn4 Alpha-actinin-4
[IPI00123181](#) Tax_Id=10090 Gene_Symbol=Myh9 Myosin-9
[IPI00223757](#) Tax_Id=10090 Gene_Symbol=Akrlb3 Aldose reductase
[IPI00137331](#) Tax_Id=10090 Gene_Symbol=Cap1 Adenylyl cyclase-associated protein 1
[IPI00223216](#) Tax_Id=10090 Gene_Symbol=Tst Thiosulfate sulfurtransferase
[IPI00117167](#) Tax_Id=10090 Gene_Symbol=Gsn Isoform 1 of Gelsolin precursor
[IPI00113141](#) Tax_Id=10090 Gene_Symbol=Cs Citrate synthase, mitochondrial precursor
[IPI00466069](#) Tax_Id=10090 Gene_Symbol=Eef2 Elongation factor 2
[IPI00128522](#) Tax_Id=10090 Gene_Symbol=Hspb1 Isoform A of Heat shock protein beta-1
[IPI00129526](#) Tax_Id=10090 Gene_Symbol=Hsp90b1 Endoplasmic precursor
[IPI00269661](#) Tax_Id=10090 Gene_Symbol=Hnrpa3 Isoform 1 of Heterogeneous nuclear ribonucleoprotein A3
[IPI00467833](#) Tax_Id=10090 Gene_Symbol=Tpi1 Triosephosphate isomerase
[IPI00462072](#) Tax_Id=10090 Gene_Symbol=EG433182;Enol;LOC100044223 Alpha-enolase
[IPI00115522](#) Tax_Id=10090 Gene_Symbol=Fga fibrinogen, alpha polypeptide
[IPI00137409](#) Tax_Id=10090 Gene_Symbol=Tkt Transketolase
[IPI00468203](#) Tax_Id=10090 Gene_Symbol=Anxa2 Annexin A2
[IPI00120030](#) Tax_Id=10090 Gene_Symbol=Crym Mu-crystallin homolog
[IPI00874728](#) Tax_Id=10090 Gene_Symbol=Tpm2 Isoform 2 of Tropomyosin beta chain
[IPI00114945](#) Tax_Id=10090 Gene_Symbol=Sept2 Septin-2
[IPI00377592](#) Tax_Id=10090 Gene_Symbol=Sec31a SEC31-like 1
[IPI00123494](#) Tax_Id=10090 Gene_Symbol=Psmd2 26S proteasome non-ATPase regulatory subunit 2
[IPI00653931](#) Tax_Id=10090 Gene_Symbol=Fah Visual cortex cDNA, RIKEN full-length enriched library, clone:K430330E02 product:fumarylacetoacetate hydrolase
[IPI00230212](#) Tax_Id=10090 Gene_Symbol=Gstml Glutathione S-transferase Mu 1
[IPI00459570](#) Tax_Id=10090 Gene_Symbol=Tpm3 2 days neonate thymus thymic cells cDNA, RIKEN full-length enriched library, clone:C920030J24 product:tropomy
[IPI00129107](#) Tax_Id=10090 Gene_Symbol=Gipcl PDZ domain-containing protein GIPC1
[IPI00309768](#) Tax_Id=10090 Gene_Symbol=Pdlim1 PDZ and LIM domain protein 1
[IPI00457659](#) Tax_Id=10090 Gene_Symbol=Serpib1a Leukocyte elastase inhibitor A
[IPI00111265](#) Tax_Id=10090 Gene_Symbol=Capza2 F-actin-capping protein subunit alpha-2
[IPI00133605](#) Tax_Id=10090 Gene_Symbol=Pklr Pyruvate kinase isozymes R/L
[IPI00776343](#) Tax_Id=10090 Gene_Symbol=Ager RAGE
[IPI00408119](#) Tax_Id=10090 Gene_Symbol=Mtap4 Isoform 1 of Microtubule-associated protein 4
[IPI00421206](#) Tax_Id=10090 Gene_Symbol=Kctd12 BTB/POZ domain-containing protein KCTD12
[IPI00459725](#) Tax_Id=10090 Gene_Symbol=Idh3a Isoform 1 of Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial precursor
[IPI00467447](#) Tax_Id=10090 Gene_Symbol=Iqgap1 Ras GTPase-activating-like protein IQGAP1

[IPI00187462](#) Tax_Id=10090 Gene_Symbol=Gimap4 GTPase, IMAP family member 4 isoform a
[IPI00420806](#) Tax_Id=10090 Gene_Symbol=Dync1li2 Cytoplasmic dynein 1 light intermediate chain 2
[IPI00118875](#) Tax_Id=10090 Gene_Symbol=Eef1d eukaryotic translation elongation factor 1 delta isoform a
[IPI00229510](#) Tax_Id=10090 Gene_Symbol=Ldhb L-lactate dehydrogenase B chain
[IPI00138342](#) Tax_Id=10090 Gene_Symbol=Es1 Liver carboxylesterase N precursor
[IPI00119111](#) Tax_Id=10090 Gene_Symbol=Cnn3 Calponin-3
[IPI00377351](#) Tax_Id=10090 Gene_Symbol=Apoa4;ENSMUSG00000074373 Apolipoprotein A-IV precursor
[IPI00336362](#) Tax_Id=10090 Gene_Symbol=Aldh1a7 Aldehyde dehydrogenase, cytosolic 1
[IPI00317710](#) Tax_Id=10090 Gene_Symbol=Hspa4l Isoform 1 of Heat shock 70 kDa protein 4L
[IPI00116074](#) Tax_Id=10090 Gene_Symbol=Aco2 Aconitate hydratase, mitochondrial precursor
[IPI00114017](#) Tax_Id=10090 Gene_Symbol=Anxa7 Annexin A7
[IPI00125143](#) Tax_Id=10090 Gene_Symbol=Arpc1b Arpc1b protein
[IPI00133903](#) Tax_Id=10090 Gene_Symbol=Hspa9 Stress-70 protein, mitochondrial precursor
[IPI00230682](#) Tax_Id=10090 Gene_Symbol=Ywhab Isoform Long of 14-3-3 protein beta/alpha
[IPI00115528](#) Tax_Id=10090 Gene_Symbol=Pls3 Plastin 3
[IPI00124264](#) Tax_Id=10090 Gene_Symbol=Anxa11 Annexin A11
[IPI00226430](#) Tax_Id=10090 Gene_Symbol=Acaa2 3-ketoacyl-CoA thiolase, mitochondrial
[IPI00313222](#) Tax_Id=10090 Gene_Symbol=Rpl6 60S ribosomal protein L6
[IPI00228253](#) Tax_Id=10090 Gene_Symbol=Acat2 Acetyl-CoA acetyltransferase, cytosolic
[IPI00283862](#) Tax_Id=10090 Gene_Symbol=Psmal Proteasome subunit alpha type-1
[IPI00310240](#) Tax_Id=10090 Gene_Symbol=Anxa6 13 days embryo forelimb cDNA, RIKEN full-length enriched library, clone:5930413M14 product:annexin A6, full
[IPI00116645](#) Tax_Id=10090 Gene_Symbol=Cnn1 Isoform Alpha of Calponin-1
[IPI00221817](#) Tax_Id=10090 Gene_Symbol=Loh11cr2a Loss of heterozygosity 11 chromosomal region 2 gene A protein homolog
[IPI00312058](#) Tax_Id=10090 Gene_Symbol=Cat Catalase
[IPI00114894](#) Tax_Id=10090 Gene_Symbol=Myh11 Isoform 1 of Myosin-11
[IPI00124287](#) Tax_Id=10090 Gene_Symbol=Pabpc1 Polyadenylate-binding protein 1
[IPI00119667](#) Tax_Id=10090 Gene_Symbol=Eef1a2 Elongation factor 1-alpha 2
[IPI00420882](#) Tax_Id=10090 Gene_Symbol=Ogdh Isoform 4 of 2-oxoglutarate dehydrogenase E1 component, mitochondrial precursor
[IPI00129225](#) Tax_Id=10090 Gene_Symbol=Kng1 Isoform LMW of Kininogen-1 precursor
[IPI00119114](#) Tax_Id=10090 Gene_Symbol=Acadl Long-chain specific acyl-CoA dehydrogenase, mitochondrial precursor
[IPI00115833](#) Tax_Id=10090 Gene_Symbol=Mtap6 microtubule-associated protein 6 isoform 1
[IPI00622946](#) Tax_Id=10090 Gene_Symbol=Palld Isoform 4 of Palladin
[IPI00271262](#) Tax_Id=10090 Gene_Symbol=Mug2 Murinoglobulin-2 precursor
[IPI00124692](#) Tax_Id=10090 Gene_Symbol=Taldol Transaldolase
[IPI00117730](#) Tax_Id=10090 Gene_Symbol=Gbp3 Guanylate-binding protein 4
[IPI00230706](#) Tax_Id=10090 Gene_Symbol=Pgam2 Phosphoglycerate mutase 2
[IPI00127596](#) Tax_Id=10090 Gene_Symbol=Ckm Creatine kinase M-type
[IPI00322312](#) Tax_Id=10090 Gene_Symbol=Arhgdia Rho GDP-dissociation inhibitor 1
[IPI00353727](#) Tax_Id=10090 Gene_Symbol=Anxa4 Annexin A4
[IPI00230108](#) Tax_Id=10090 Gene_Symbol=Pdia3 Protein disulfide-isomerase A3 precursor
[IPI00462934](#) Tax_Id=10090 Gene_Symbol=Khsrp Far upstream element-binding protein 2
[IPI00224626](#) Tax_Id=10090 Gene_Symbol=Sept7 cell division cycle 10 homolog
[IPI00116498](#) Tax_Id=10090 Gene_Symbol=Ywhaz 14-3-3 protein zeta/delta
[IPI00308885](#) Tax_Id=10090 Gene_Symbol=Hspd1 Isoform 1 of 60 kDa heat shock protein, mitochondrial precursor
[IPI00314191](#) Tax_Id=10090 Gene_Symbol=Cbr1 Carbonyl reductase [NADPH] 1
[IPI00378438](#) Tax_Id=10090 Gene_Symbol=Tns1 tensin 1
[IPI00118678](#) Tax_Id=10090 Gene_Symbol=Tcp1 T-complex protein 1 subunit alpha A
[IPI00223253](#) Tax_Id=10090 Gene_Symbol=Hnrpk Isoform 1 of Heterogeneous nuclear ribonucleoprotein K
[IPI00115679](#) Tax_Id=10090 Gene_Symbol=Ganab Isoform 2 of Neutral alpha-glucosidase AB precursor
[IPI00751017](#) Tax_Id=10090 Gene_Symbol=A230067G21Rik 99 kDa protein

[IPI00109600](#) Tax_Id=10090 Gene_Symbol=2410004A20Rik ES cells cDNA, RIKEN full-length enriched library, clone:2410004A20 product:hypothetical Alanine-ric:
[IPI00136703](#) Tax_Id=10090 Gene_Symbol=Ckb Creatine kinase B-type
[IPI00154054](#) Tax_Id=10090 Gene_Symbol=Acat1 Acetyl-CoA acetyltransferase, mitochondrial precursor
[IPI00172328](#) Tax_Id=10090 Gene_Symbol=Dnahc8 Isoform 1 of Ciliary dynein heavy chain 8
[IPI00229988](#) Tax_Id=10090 Gene_Symbol=Elf2c2 Eukaryotic translation initiation factor 2C 2
[IPI00553798](#) Tax_Id=10090 Gene_Symbol=Ahnak AHNAK nucleoprotein isoform 1
[IPI00348328](#) Tax_Id=10090 Gene_Symbol=Krt78 keratin Kb40
[IPI00469952](#) Tax_Id=10090 Gene_Symbol=Prx Isoform 1 of Periaxin
[IPI00119818](#) Tax_Id=10090 Gene_Symbol=Itih4 Adult male liver cDNA, RIKEN full-length enriched library, clone:1300004A21 product:inter alpha-trypsin inhi:
[IPI00125971](#) Tax_Id=10090 Gene_Symbol=Psmc6 26S protease regulatory subunit S10B
[IPI00110588](#) Tax_Id=10090 Gene_Symbol=Msn Moesin
[IPI00116283](#) Tax_Id=10090 Gene_Symbol=Cct3 T-complex protein 1 subunit gamma
[IPI00116281](#) Tax_Id=10090 Gene_Symbol=Cct6a T-complex protein 1 subunit zeta
[IPI00408258](#) Tax_Id=10090 Gene_Symbol=Btbd12 BTB (POZ) domain containing 12
[IPI00330476](#) Tax_Id=10090 Gene_Symbol=Cyfipl1 Isoform 1 of Cytoplasmic FMR1-interacting protein 1
[IPI00315948](#) Tax_Id=10090 Gene_Symbol=Tbcb Tubulin folding cofactor B
[IPI00458583](#) Tax_Id=10090 Gene_Symbol=Hnrnpu Osteoclast-like cell cDNA, RIKEN full-length enriched library, clone:I420039N16 product:heterogeneous nucle:
[IPI00223224](#) Tax_Id=10090 Gene_Symbol=D130079A08Rik 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library, clone:D130079A08 product:hy:
[IPI00762122](#) Tax_Id=10090 Gene_Symbol=- 462 kDa protein
[IPI00121892](#) Tax_Id=10090 Gene_Symbol=Spnb2 Isoform 2 of Spectrin beta chain, brain 1
[IPI00762403](#) Tax_Id=10090 Gene_Symbol=Usp31 ubiquitin specific protease 31
[IPI00126072](#) Tax_Id=10090 Gene_Symbol=Vat1 Synaptic vesicle membrane protein VAT-1 homolog
[IPI00402968](#) Tax_Id=10090 Gene_Symbol=Ehd2 13 days embryo forelimb cDNA, RIKEN full-length enriched library, clone:5930429A15 product:EH DOMAIN-CONTAINI:
[IPI00461360](#) Tax_Id=10090 Gene_Symbol=Ccdc39 Coiled-coil domain-containing protein 39
[IPI00131395](#) Tax_Id=10090 Gene_Symbol=Znf512b MKIAA1196 protein
[IPI00120274](#) Tax_Id=10090 Gene_Symbol=Npcd;Cbx6 Chromobox protein homolog 6
[IPI00132700](#) Tax_Id=10090 Gene_Symbol=Mrpl35 39S ribosomal protein L35, mitochondrial precursor

Probability Based Mowse Score

Ions score is $-10 \cdot \log(P)$, where P is the probability that the observed match is a random event.
 Individual ions scores > 34 indicate identity or extensive homology ($p < 0.05$).
 Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



Peptide Summary Report

Format As Peptide Summary

[Help](#)

Significance threshold $p <$ Max. number of hits

Standard scoring MudPIT scoring Ions score or expect cut-off Show sub-sets

Show pop-ups Suppress pop-ups Sort unassigned Require bold red

Select All

Select None

Search Selected

 Error tolerant

Archive Report

1. [IPI00874482](#) Mass: 42108 Score: 1889 Queries matched: 124 emPAI: 17.51

Tax_Id=10090 Gene_Symbol=Actg1 Actin, cytoplasmic 2

 Check to include this hit in error tolerant search or archive report

Query	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 435	350.7531	699.4916	699.4894	3.02	0	(33)	0.032	1	R_GILTLK.Y + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 442	354.7782	707.5418	707.5397	3.07	0	(33)	0.029	1	R_GILTLK.Y + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 443	354.7784	707.5423	707.5397	3.76	0	42	0.0033	1	R_GILTLK.Y + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 642	412.2567	822.4988	822.4963	3.05	0	36	0.031	1	K_IIAPPER.K + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1039	504.7576	1007.5006	1007.4974	3.20	0	(51)	0.00074	1	K_AGFAGDDAPR.A + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1040	504.7577	1007.5009	1007.4974	3.45	0	57	0.00018	1	K_AGFAGDDAPR.A + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1187	527.7816	1053.5486	1053.5416	6.59	0	46	0.003	1	R_DLTDYLMK.I + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1212	531.8063	1061.5981	1061.5918	5.91	0	(43)	0.0091	1	R_DLTDYLMK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1437	580.7851	1159.5557	1159.5509	4.12	0	38	0.01	1	R_GYSFTTAER.E + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1438	580.7855	1159.5564	1159.5509	4.68	0	(32)	0.036	1	R_GYSFTTAER.E + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1446	582.7978	1163.5810	1163.5761	4.26	0	(31)	0.068	1	R_GYSFTTAER.E + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1447	582.7985	1163.5824	1163.5761	5.42	0	(34)	0.036	1	R_GYSFTTAER.E + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1653	609.3474	1216.6802	1216.6737	5.32	0	(42)	0.011	1	K_EITALAPSTMK.I + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1654	609.3474	1216.6802	1216.6737	5.32	0	(40)	0.016	1	K_EITALAPSTMK.I + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1705	613.3725	1224.7304	1224.7239	5.34	0	44	0.0071	1	K_EITALAPSTMK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1706	613.3725	1224.7304	1224.7239	5.34	0	(42)	0.0098	1	K_EITALAPSTMK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1712	409.5852	1225.7337	1225.7295	3.42	0	(35)	0.049	1	R_AVFPSIVGRPR.H + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1713	409.5852	1225.7337	1225.7295	3.42	0	(44)	0.0071	1	R_AVFPSIVGRPR.H + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1714	613.8741	1225.7337	1225.7295	3.43	0	67	3.3e-005	1	R_AVFPSIVGRPR.H + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1717	409.5854	1225.7343	1225.7295	3.92	0	(34)	0.065	1	R_AVFPSIVGRPR.H + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1718	409.5855	1225.7347	1225.7295	4.24	0	(43)	0.0088	1	R_AVFPSIVGRPR.H + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1719	613.8748	1225.7350	1225.7295	4.44	0	(52)	0.00092	1	R_AVFPSIVGRPR.H + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1722	409.8839	1226.6297	1226.6264	2.72	0	(43)	0.0054	1	R_HQGVVGMGQK.D + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1723	409.8839	1226.6299	1226.6264	2.86	0	(31)	0.099	1	R_HQGVVGMGQK.D + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1724	614.3229	1226.6313	1226.6264	4.02	0	48	0.0019	1	R_HQGVVGMGQK.D + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1758	410.9269	1229.7587	1229.7546	3.32	0	(36)	0.037	1	R_AVFPSIVGRPR.H + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1759	410.9271	1229.7594	1229.7546	3.84	0	(43)	0.0074	1	R_AVFPSIVGRPR.H + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1760	410.9271	1229.7595	1229.7546	3.91	0	(35)	0.041	1	R_AVFPSIVGRPR.H + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1761	410.9272	1229.7597	1229.7546	4.13	0	(37)	0.027	1	R_AVFPSIVGRPR.H + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1762	615.8871	1229.7597	1229.7546	4.13	0	(54)	0.0006	1	R_AVFPSIVGRPR.H + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1763	615.8876	1229.7607	1229.7546	4.95	0	(59)	0.00019	1	R_AVFPSIVGRPR.H + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1777	617.3446	1232.6747	1232.6686	4.91	0	(32)	0.13	1	K_EITALAPSTMK.I + Dimethyl (K); Dimethyl (N-term); Oxidation (M)

<input checked="" type="checkbox"/>	1778	617.3448	1232.6751	1232.6686	5.31	0	(33)	0.089	1	K_EITALAPSTMK.I + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	1790	412.5673	1234.6801	1234.6766	2.84	0	(38)	0.038	1	R_HQGVVMVGMGQK.D + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1791	412.5673	1234.6802	1234.6766	2.92	0	(36)	0.048	1	R_HQGVVMVGMGQK.D + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1792	618.3480	1234.6814	1234.6766	3.85	0	(39)	0.025	1	R_HQGVVMVGMGQK.D + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1817	621.3697	1240.7248	1240.7188	4.83	0	(30)	0.2	1	K_EITALAPSTMK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	1818	621.3698	1240.7251	1240.7188	5.03	0	(30)	0.21	1	K_EITALAPSTMK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	2305	473.5849	1417.7330	1417.7289	2.88	1	(25)	0.52	1	K_DSYVGVDEAQSQR.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2306	473.5851	1417.7335	1417.7289	3.27	1	50	0.0019	1	K_DSYVGVDEAQSQR.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2624	505.6606	1513.9601	1513.9543	3.86	1	42	0.004	1	K_EITALAPSTMKIK.I + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	2873	544.9758	1631.9057	1631.8990	4.09	1	(45)	0.007	1	R_MQKEITALAPSTMK.I + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	2874	544.9761	1631.9066	1631.8990	4.65	1	(44)	0.0083	1	R_MQKEITALAPSTMK.I + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	2907	549.0010	1643.9811	1643.9743	4.12	1	(41)	0.014	1	R_MQKEITALAPSTMK.I + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2908	549.0011	1643.9815	1643.9743	4.34	1	51	0.0011	1	R_MQKEITALAPSTMK.I + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2965	554.3323	1659.9752	1659.9693	3.57	1	(29)	0.2	1	R_MQKEITALAPSTMK.I + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3301	606.9832	1817.9277	1817.9159	6.49	0	(46)	0.0048	1	K_SYELPDGQVITIGNER.F + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3302	909.9726	1817.9307	1817.9159	8.14	0	(90)	2e-007	1	K_SYELPDGQVITIGNER.F + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3303	909.9731	1817.9317	1817.9159	8.69	0	(79)	2.5e-006	1	K_SYELPDGQVITIGNER.F + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3323	608.3251	1821.9536	1821.9410	6.88	0	(30)	0.23	1	K_SYELPDGQVITIGNER.F + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3324	911.9853	1821.9560	1821.9410	8.22	0	92	1.6e-007	1	K_SYELPDGQVITIGNER.F + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3325	911.9858	1821.9570	1821.9410	8.76	0	(87)	5e-007	1	K_SYELPDGQVITIGNER.F + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3440	934.4482	1866.8818	1866.9005	-10.00	0	28	0.15	1	M_EEEIAALVIDNGSGMCK.A + Dimethyl:2H(4) (K)
<input checked="" type="checkbox"/>	3705	670.7178	2009.1315	2009.1197	5.87	0	(40)	0.018	1	R_VAPEEHPVLLTEAPLNPK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3706	670.7178	2009.1315	2009.1197	5.87	0	(37)	0.038	1	R_VAPEEHPVLLTEAPLNPK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3707	670.7179	2009.1317	2009.1197	5.99	0	(41)	0.017	1	R_VAPEEHPVLLTEAPLNPK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3708	670.7179	2009.1317	2009.1197	5.99	0	(44)	0.0084	1	R_VAPEEHPVLLTEAPLNPK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3709	670.7180	2009.1322	2009.1197	6.24	0	(39)	0.023	1	R_VAPEEHPVLLTEAPLNPK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3742	673.3995	2017.1767	2017.1699	3.37	0	(31)	0.095	1	R_VAPEEHPVLLTEAPLNPK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3746	673.4012	2017.1817	2017.1699	5.85	0	(44)	0.0051	1	R_VAPEEHPVLLTEAPLNPK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3747	673.4013	2017.1821	2017.1699	6.03	0	(42)	0.0083	1	R_VAPEEHPVLLTEAPLNPK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3748	673.4015	2017.1827	2017.1699	6.35	0	46	0.0029	1	R_VAPEEHPVLLTEAPLNPK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3749	673.4017	2017.1832	2017.1699	6.57	0	(45)	0.0039	1	R_VAPEEHPVLLTEAPLNPK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4239	800.4190	2398.2352	2398.2202	6.24	1	(51)	0.002	1	R_KDLYANTVLSGGTTMYPGIADR.M + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4240	800.4199	2398.2377	2398.2202	7.29	1	(71)	1.7e-005	1	R_KDLYANTVLSGGTTMYPGIADR.M + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4243	803.1025	2406.2856	2406.2705	6.29	1	(55)	0.00086	1	R_KDLYANTVLSGGTTMYPGIADR.M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4244	803.1038	2406.2897	2406.2705	8.00	1	(32)	0.18	1	R_KDLYANTVLSGGTTMYPGIADR.M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4245	803.1039	2406.2898	2406.2705	8.04	1	(58)	0.00042	1	R_KDLYANTVLSGGTTMYPGIADR.M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4257	805.7502	2414.2289	2414.2151	5.70	1	77	4e-006	1	R_KDLYANTVLSGGTTMYPGIADR.M + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4260	808.4335	2422.2788	2422.2654	5.52	1	(60)	0.00022	1	R_KDLYANTVLSGGTTMYPGIADR.M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4270	609.5505	2434.1727	2434.1621	4.37	1	(35)	0.046	1	R_HQGVVMVGMGQKDSYVGVDEAQSQR + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4271	609.5505	2434.1727	2434.1621	4.37	1	(42)	0.0092	1	R_HQGVVMVGMGQKDSYVGVDEAQSQR + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4272	609.5505	2434.1730	2434.1621	4.50	1	(39)	0.017	1	R_HQGVVMVGMGQKDSYVGVDEAQSQR + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4273	609.5508	2434.1743	2434.1621	5.00	1	(30)	0.14	1	R_HQGVVMVGMGQKDSYVGVDEAQSQR + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4286	612.5690	2446.2467	2446.2374	3.80	1	(27)	0.42	1	R_HQGVVMVGMGQKDSYVGVDEAQSQR + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4288	612.5695	2446.2487	2446.2374	4.62	1	(37)	0.041	1	R_HQGVVMVGMGQKDSYVGVDEAQSQR + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4289	612.5695	2446.2487	2446.2374	4.62	1	(38)	0.033	1	R_HQGVVMVGMGQKDSYVGVDEAQSQR + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

<input checked="" type="checkbox"/>	4291	613.5488	2450.1662	2450.1570	3.76	1	(54)	0.00046	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4292	613.5492	2450.1677	2450.1570	4.38	1	(37)	0.022	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4293	613.5492	2450.1677	2450.1570	4.38	1	(48)	0.0018	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4294	613.5493	2450.1682	2450.1570	4.56	1	(38)	0.02	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4295	613.5493	2450.1682	2450.1570	4.56	1	(30)	0.1	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4296	613.5494	2450.1686	2450.1570	4.75	1	60	0.00012	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4310	616.5677	2462.2416	2462.2323	3.77	1	(41)	0.019	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4311	616.5677	2462.2417	2462.2323	3.81	1	(35)	0.076	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4312	616.5679	2462.2424	2462.2323	4.07	1	(40)	0.024	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4313	616.5679	2462.2424	2462.2323	4.07	1	(37)	0.047	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4314	616.5680	2462.2427	2462.2323	4.21	1	(35)	0.067	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4315	616.5680	2462.2427	2462.2323	4.21	1	(31)	0.18	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4316	616.5680	2462.2429	2462.2323	4.27	1	(27)	0.45	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4320	617.5475	2466.1608	2466.1519	3.61	1	(35)	0.033	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl (K); Dimethyl (N-term); 2 Oxidation (M)
<input checked="" type="checkbox"/>	4321	617.5480	2466.1627	2466.1519	4.38	1	(53)	0.00045	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl (K); Dimethyl (N-term); 2 Oxidation (M)
<input checked="" type="checkbox"/>	4322	617.5482	2466.1637	2466.1519	4.79	1	(47)	0.002	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl (K); Dimethyl (N-term); 2 Oxidation (M)
<input checked="" type="checkbox"/>	4323	617.5482	2466.1638	2466.1519	4.80	1	(32)	0.06	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl (K); Dimethyl (N-term); 2 Oxidation (M)
<input checked="" type="checkbox"/>	4334	620.5660	2478.2347	2478.2273	3.01	1	(44)	0.0081	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); 2 Oxidation (M)
<input checked="" type="checkbox"/>	4335	620.5660	2478.2351	2478.2273	3.14	1	(50)	0.0019	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); 2 Oxidation (M)
<input checked="" type="checkbox"/>	4336	620.5665	2478.2367	2478.2273	3.82	1	(33)	0.1	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); 2 Oxidation (M)
<input checked="" type="checkbox"/>	4337	620.5665	2478.2368	2478.2273	3.83	1	(37)	0.035	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); 2 Oxidation (M)
<input checked="" type="checkbox"/>	4374	648.5753	2590.2719	2590.2632	3.37	2	(47)	0.003	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4375	648.5760	2590.2747	2590.2632	4.45	2	(60)	0.00019	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4376	648.5760	2590.2751	2590.2632	4.60	2	(58)	0.00026	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4377	648.5762	2590.2757	2590.2632	4.84	2	(49)	0.002	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4382	649.5785	2594.2847	2594.2883	-1.38	2	(29)	0.24	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4383	649.5792	2594.2877	2594.2883	-0.22	2	(37)	0.036	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4386	651.5940	2602.3467	2602.3385	3.15	2	(35)	0.074	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4387	651.5942	2602.3477	2602.3385	3.53	2	(42)	0.014	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4388	651.5946	2602.3493	2602.3385	4.14	2	(41)	0.018	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4389	651.5947	2602.3498	2602.3385	4.33	2	(37)	0.048	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4395	652.5742	2606.2677	2606.2581	3.69	2	(43)	0.0063	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4396	652.5743	2606.2683	2606.2581	3.89	2	64	5.3e-005	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4397	652.5744	2606.2685	2606.2581	3.99	2	(35)	0.042	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4398	652.5747	2606.2697	2606.2581	4.46	2	(37)	0.026	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4399	652.5747	2606.2697	2606.2581	4.46	2	(41)	0.013	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4400	652.5748	2606.2700	2606.2581	4.55	2	(51)	0.0012	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4408	655.5928	2618.3422	2618.3335	3.35	2	(49)	0.0029	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4409	655.5930	2618.3427	2618.3335	3.54	2	(53)	0.0012	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4410	655.5930	2618.3427	2618.3335	3.54	2	(60)	0.00023	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4411	655.5932	2618.3437	2618.3335	3.92	2	(36)	0.058	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4412	655.5933	2618.3439	2618.3335	4.01	2	(29)	0.28	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4413	655.5933	2618.3439	2618.3335	4.01	2	(44)	0.0096	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4417	656.5727	2622.2617	2622.2530	3.29	2	(27)	0.25	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl (N-term); 2 Oxidation (M)
<input checked="" type="checkbox"/>	4420	656.5734	2622.2646	2622.2530	4.41	2	(28)	0.19	1	R_HQGVVVMGQKDSYVGD <small>EAQSK</small> .G + 2 Dimethyl (K); Dimethyl (N-term); 2 Oxidation (M)

<input checked="" type="checkbox"/>	4421	656.5735	2622.2647	2622.2530	4.46	2	(33)	0.068	1	R_HQGVVVMGQKDSYVGDEAQS K R.G + 2 Dimethyl (K); Dimethyl (N-term); 2 Oxidation (M)
<input checked="" type="checkbox"/>	4432	527.8740	2634.3337	2634.3284	2.04	2	(33)	0.11	1	R_HQGVVVMGQKDSYVGDEAQS K R.G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); 2 Oxidation (M)

2. [IPI00405227](#) Mass: 117215 Score: 1645 Queries matched: 81 emPAI: 3.11

Tax_Id=10090 Gene_Symbol=Vcl Vinculin

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<input checked="" type="checkbox"/>	449	356.7715	711.5285	711.5258	3.82	0	29	0.012	1	R_ILLVAK R .R + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	748	292.9004	875.6793	875.6772	2.39	1	27	0.0071	1	R_ILLVAK R .E + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	900	483.7501	965.4857	965.4818	4.07	0	40	0.0071	1	R_DYLIDGSR.G + Dimethyl (N-term)
<input checked="" type="checkbox"/>	904	485.7629	969.5113	969.5069	4.49	0	(39)	0.011	1	R_DYLIDGSR.G + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	923	488.7572	975.4999	975.4964	3.59	0	30	0.092	1	K_SFLDSGYR.I + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1201	529.3002	1056.5859	1056.5815	4.19	0	(38)	0.022	1	K_NQGIEEALK N .N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1217	533.3255	1064.6364	1064.6317	4.44	0	45	0.0053	1	K_NQGIEEALK N .N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1241	362.2218	1083.6436	1083.6400	3.30	1	(56)	0.00042	1	K_GNDIIAAAK R .M + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1255	364.9050	1091.6932	1091.6902	2.69	1	64	3.7e-005	1	K_GNDIIAAAK R .M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1382	569.3326	1136.6506	1136.6463	3.74	0	67	3.5e-005	1	R_GQGASPVAMQK A .A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1400	573.3455	1144.6765	1144.6703	5.40	0	(65)	5.5e-005	1	R_SLGEIAALTSK L .L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1408	574.8097	1147.6048	1147.5981	5.88	0	47	0.0026	1	K_TISPMVMDAK A .A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1426	577.3708	1152.7270	1152.7205	5.63	0	67	2.2e-005	1	R_SLGEIAALTSK L .L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1431	578.8346	1155.6546	1155.6483	5.47	0	(32)	0.14	1	K_TISPMVMDAK A .A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1448	582.8063	1163.5980	1163.5930	4.29	0	(32)	0.075	1	K_TISPMVMDAK A .A + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	1473	586.8316	1171.6487	1171.6432	4.63	0	(31)	0.15	1	K_TISPMVMDAK A .A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	1474	586.8317	1171.6488	1171.6432	4.73	0	(36)	0.044	1	K_TISPMVMDAK A .A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	1489	587.8402	1173.6659	1173.6605	4.58	0	(61)	0.00013	1	K_STVEGIQASV K .T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1521	590.8011	1179.5876	1179.5814	5.31	0	48	0.0016	1	R_MALLMAEMSR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/>	1528	591.8654	1181.7162	1181.7107	4.60	0	66	3.7e-005	1	K_STVEGIQASV K .T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1535	592.8136	1183.6127	1183.6065	5.28	0	(41)	0.0099	1	R_MALLMAEMSR.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1592	602.3276	1202.6407	1202.6329	6.54	0	44	0.007	1	K_MSAEINEIIR.V + Dimethyl (N-term)
<input checked="" type="checkbox"/>	1637	606.8536	1211.6927	1211.6874	4.42	0	64	7.1e-005	1	R_ELTPQVISAAR.I + Dimethyl (N-term)
<input checked="" type="checkbox"/>	1650	608.8666	1215.7187	1215.7125	5.14	0	(38)	0.027	1	R_ELTPQVISAAR.I + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1858	629.8101	1257.6057	1257.5990	5.37	0	40	0.0062	1	R_WIDNPTVDDR.G + Dimethyl (N-term)
<input checked="" type="checkbox"/>	1866	420.8993	1259.6761	1259.6721	3.20	1	29	0.25	1	K_DIAKASDEVTR.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1870	631.8226	1261.6306	1261.6241	5.15	0	(36)	0.025	1	R_WIDNPTVDDR.G + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1891	635.4005	1268.7864	1268.7777	6.79	0	45	0.004	1	K_ELLPVLISAMK I .I + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1913	639.4256	1276.8366	1276.8280	6.79	0	(31)	0.041	1	K_ELLPVLISAMK I .I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1947	647.4217	1292.8288	1292.8229	4.60	0	(41)	0.0066	1	K_ELLPVLISAMK I .I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	1960	650.3882	1298.7618	1298.7542	5.88	0	33	0.11	1	R_VMLVNSMNTVK E .E + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2039	442.5871	1324.7396	1324.7350	3.40	0	(27)	0.38	1	K_AVAGNISDPGLQK S .S + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	2040	663.3779	1324.7412	1324.7350	4.63	0	(57)	0.00044	1	K_AVAGNISDPGLQK S .S + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	2062	444.5868	1330.7385	1330.7343	3.15	1	53	0.00089	1	R_EAVKKAASDELSK T .T + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	2072	667.4029	1332.7912	1332.7853	4.47	0	70	1.8e-005	1	K_AVAGNISDPGLQK S .S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2106	448.6118	1342.8136	1342.8097	2.93	1	(51)	0.0012	1	R_EAVKKAASDELSK T .T + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2132	678.8844	1355.7542	1355.7458	6.23	0	44	0.0083	1	K_MTGLVDEAIDTK S .S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

✓	2147	455.6034	1363.7884	1363.7846	2.78	1	38	0.031	1	R_ARGQGASPVAMQK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	2156	685.9078	1369.8010	1369.7929	5.92	0	64	6.9e-005	1	K_QVATALQNLQTK.T + Dimethyl (K); Dimethyl (N-term)
✓	2196	689.9326	1377.8506	1377.8431	5.40	0	(59)	0.00012	1	K_QVATALQNLQTK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	2222	463.2750	1386.8031	1386.7969	4.42	1	(40)	0.017	1	K_SLLDASEEAIKK.D + 2 Dimethyl (K); Dimethyl (N-term)
✓	2253	467.3000	1398.8781	1398.8723	4.18	1	44	0.0034	1	K_SLLDASEEAIKK.D + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	2274	469.2381	1404.6926	1404.6885	2.90	1	27	0.21	1	R_EVENSEDPKFR.E + Dimethyl (K); Dimethyl (N-term)
✓	2403	481.6259	1441.8560	1441.8504	3.90	1	31	0.13	1	R_ALASIDSKLNQAK.G + 2 Dimethyl (K); Dimethyl (N-term)
✓	2450	485.6509	1453.9310	1453.9257	3.63	1	(26)	0.15	1	R_ALASIDSKLNQAK.G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	2591	753.3811	1504.7477	1504.7378	6.61	0	89	1.4e-007	1	K_MLGQMTDQVADLR.A + Dimethyl (N-term)
✓	2606	755.3939	1508.7732	1508.7629	6.81	0	(82)	9.2e-007	1	K_MLGQMTDQVADLR.A + Dimethyl:2H(4) (N-term)
✓	2621	757.4380	1512.8615	1512.8512	6.87	0	(103)	8.7e-009	1	K_AQQVSQGLDVLTA.V + Dimethyl (K); Dimethyl (N-term)
✓	2645	761.4633	1520.9120	1520.9014	6.96	0	117	2.7e-010	1	K_AQQVSQGLDVLTA.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	2681	769.3754	1536.7362	1536.7276	5.58	0	(74)	3e-006	1	K_MLGQMTDQVADLR.A + Dimethyl (N-term); 2 Oxidation (M)
✓	2691	771.3886	1540.7627	1540.7527	6.48	0	(53)	0.00056	1	K_MLGQMTDQVADLR.A + Dimethyl:2H(4) (N-term); 2 Oxidation (M)
✓	2712	775.8984	1549.7823	1549.7717	6.89	0	52	0.00089	1	K_AGEVINQPMMAAR.Q + Dimethyl:2H(4) (N-term)
✓	2720	519.6401	1555.8986	1555.8933	3.39	1	(35)	0.057	1	R_LGATAEKAAAVGTANK.S + 2 Dimethyl (K); Dimethyl (N-term)
✓	2745	523.6655	1567.9746	1567.9687	3.77	1	40	0.0085	1	R_LGATAEKAAAVGTANK.S + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	2788	531.9963	1592.9672	1592.9589	5.22	1	36	0.034	1	R_ALASQLQDSLKDLK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	3215	591.6741	1772.0004	1771.9931	4.10	1	38	0.035	1	R_VGKETVQTTEDQILK.R + 2 Dimethyl (K); Dimethyl (N-term)
✓	3497	628.6982	1883.0727	1883.0612	6.10	1	28	0.29	1	R_LANVMGPYRQDLLAK.C + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	3557	478.0375	1908.1207	1908.1132	3.96	2	(39)	0.015	1	R_VGKETVQTTEDQILK.R + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	3558	478.0375	1908.1209	1908.1132	4.06	2	49	0.0016	1	R_VGKETVQTTEDQILK.R + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	3597	486.0515	1940.1768	1940.1696	3.74	2	(41)	0.0065	1	R_VGKETVQTTEDQILK.R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	3632	396.3979	1976.9532	1976.9486	2.32	1	30	0.13	1	K_MIDERQQELTHQEHR.V + Dimethyl (N-term)
✓	3663	499.2447	1992.9499	1992.9435	3.19	1	(29)	0.12	1	K_MIDERQQELTHQEHR.V + Dimethyl (N-term); Oxidation (M)
✓	3728	672.3625	2014.0657	2014.0534	6.12	1	25	0.73	1	R_WIDNPTVDDRQVQAAIR.G + Dimethyl:2H(4) (N-term)
✓	3791	680.0118	2037.0137	2037.0028	5.37	1	62	0.00011	1	K_GWLRDPNASPGDAGEQAIR.Q + Dimethyl (N-term)
✓	3801	681.3538	2041.0395	2041.0279	5.66	1	(56)	0.00048	1	K_GWLRDPNASPGDAGEQAIR.Q + Dimethyl:2H(4) (N-term)
✓	3867	690.7162	2069.1267	2069.1125	6.86	0	(31)	0.2	1	K_VAMANIQQPMLVAGATSIAR.R + Dimethyl (N-term)
✓	3880	692.0575	2073.1507	2073.1376	6.31	0	(47)	0.0039	1	K_VAMANIQQPMLVAGATSIAR.R + Dimethyl:2H(4) (N-term)
✓	3881	692.0577	2073.1512	2073.1376	6.55	0	49	0.0028	1	K_VAMANIQQPMLVAGATSIAR.R + Dimethyl:2H(4) (N-term)
✓	3957	718.7388	2153.1947	2153.1804	6.65	1	(68)	3.6e-005	1	K_AQQVSQGLDVLTA.KVENAAR.K + Dimethyl (K); Dimethyl (N-term)
✓	3958	718.7389	2153.1948	2153.1804	6.70	1	78	3.9e-006	1	K_AQQVSQGLDVLTA.KVENAAR.K + Dimethyl (K); Dimethyl (N-term)
✓	3969	721.4222	2161.2447	2161.2306	6.52	1	(61)	0.00011	1	K_AQQVSQGLDVLTA.KVENAAR.K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	3970	721.4222	2161.2449	2161.2306	6.60	1	(67)	2.9e-005	1	K_AQQVSQGLDVLTA.KVENAAR.K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	4113	751.0674	2250.1805	2250.1644	7.14	1	58	0.00035	1	K_AVAGNISDPGLQKSFLLDSGYR.I + Dimethyl (K); Dimethyl (N-term)
✓	4114	751.0679	2250.1817	2250.1644	7.69	1	(48)	0.0036	1	K_AVAGNISDPGLQKSFLLDSGYR.I + Dimethyl (K); Dimethyl (N-term)
✓	4119	753.7502	2258.2287	2258.2147	6.23	1	(48)	0.0037	1	K_AVAGNISDPGLQKSFLLDSGYR.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	4120	753.7502	2258.2287	2258.2147	6.23	1	(29)	0.3	1	K_AVAGNISDPGLQKSFLLDSGYR.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	4248	803.7575	2408.2507	2408.2336	7.13	1	43	0.011	1	K_LLAVAATAPPDAPNREEVFDER.A + Dimethyl (N-term)
✓	4255	805.0995	2412.2767	2412.2587	7.49	1	(42)	0.016	1	K_LLAVAATAPPDAPNREEVFDER.A + Dimethyl:2H(4) (N-term)
✓	4475	669.8619	2675.4184	2675.4018	6.20	2	(38)	0.035	1	R_VLQLTSWEDEAWASKDTEAMKR.A + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	4476	669.8621	2675.4194	2675.4018	6.57	2	67	4.6e-005	1	R_VLQLTSWEDEAWASKDTEAMKR.A + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
✓	4498	675.9139	2699.6267	2699.6124	5.28	2	29	0.031	1	R_LGATAEKAAAVGTANKSTVEGIQASVK.T + 3 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

3. [IPI00131695](#) Mass: 70700 Score: 1179 Queries matched: 51 emPAI: 2.15

Tax_Id=10090 Gene_Symbol=Alb Serum albumin precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1083	514.8236	1027.6327	1027.6277	4.81	0	(50)	0.0018	1	K_QTALAE L VK.H + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1084	514.8237	1027.6328	1027.6277	4.93	0	(30)	0.19	1	K_QTALAE L VK.H + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1085	514.8240	1027.6335	1027.6277	5.64	0	(50)	0.0018	1	K_QTALAE L VK.H + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1117	518.8486	1035.6827	1035.6779	4.60	0	50	0.0011	1	K_QTALAE L VK.H + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1118	518.8488	1035.6831	1035.6779	4.96	0	(49)	0.0015	1	K_QTALAE L VK.H + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1119	518.8491	1035.6836	1035.6779	5.42	0	(50)	0.0012	1	K_QTALAE L VK.H + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1120	518.8492	1035.6838	1035.6779	5.66	0	(36)	0.027	1	K_QTALAE L VK.H + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
1228	359.2197	1074.6372	1074.6338	3.12	1	(29)	0.26	2	R_AFKAWAVAR.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1240	361.9030	1082.6873	1082.6840	3.02	1	31	0.1	1	R_AFKAWAVAR.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1538	395.5932	1183.7577	1183.7540	3.14	1	51	0.00081	1	K_KQTALAE L VK.H + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1539	592.8867	1183.7589	1183.7540	4.15	1	(26)	0.27	1	K_KQTALAE L VK.H + 2 Dimethyl (K); Dimethyl (N-term)
1543	396.2527	1185.7364	1185.7332	2.67	1	(29)	0.15	2	K_LATDLTKV N K.E + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1567	399.6184	1195.8333	1195.8293	3.33	1	(36)	0.0065	1	K_KQTALAE L VK.H + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1568	598.9248	1195.8351	1195.8293	4.80	1	(25)	0.083	1	K_KQTALAE L VK.H + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1578	400.2780	1197.8122	1197.8086	3.02	1	39	0.0054	1	K_LATDLTKV N K.E + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1600	603.3456	1204.6767	1204.6703	5.31	0	(38)	0.033	1	K_LVQEVTDFAK.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1644	607.3706	1212.7267	1212.7206	5.08	0	56	0.00051	1	K_LVQEVTDFAK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1984	436.2204	1305.6393	1305.6353	3.02	0	(38)	0.012	1	R_YNDLGEQHF K .G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2018	438.9039	1313.6898	1313.6856	3.21	0	48	0.0023	1	R_YNDLGEQHF K .G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2478	489.9455	1466.8147	1466.8093	3.71	0	(38)	0.035	1	K_APQVSTPTLVEAAR.N + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2479	734.4156	1466.8167	1466.8093	5.07	0	47	0.0036	1	K_APQVSTPTLVEAAR.N + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2499	491.2872	1470.8399	1470.8344	3.72	0	(26)	0.55	1	K_APQVSTPTLVEAAR.N + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2500	736.4282	1470.8419	1470.8344	5.10	0	(35)	0.064	1	K_APQVSTPTLVEAAR.N + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2524	495.2865	1482.8377	1482.8307	4.75	1	67	4.1e-005	1	R_RHPDYSVSLLLR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2532	744.3506	1486.6866	1486.6796	4.75	0	(72)	3.1e-006	1	K_YMCENQATISS K .L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2535	496.6284	1486.8635	1486.8558	5.19	1	(64)	7.8e-005	1	R_RHPDYSVSLLLR.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2559	748.3759	1494.7372	1494.7298	4.92	0	78	1.9e-006	1	K_YMCENQATISS K .L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2598	754.4219	1506.8292	1506.8194	6.47	0	(82)	1.3e-006	1	K_LGEYGFQNA L LVR.Y + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2599	754.4231	1506.8317	1506.8194	8.15	0	104	8.6e-009	1	K_LGEYGFQNA L LVR.Y + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2616	756.4342	1510.8539	1510.8446	6.15	0	(77)	3.8e-006	1	K_LGEYGFQNA L LVR.Y + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2617	756.4363	1510.8580	1510.8446	8.90	0	(89)	2.5e-007	1	K_LGEYGFQNA L LVR.Y + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3088	857.4602	1712.9059	1712.8923	7.91	0	(81)	2e-006	1	R_LSQTFPNADFAEIT K .L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3135	579.9767	1736.9084	1736.8985	5.71	0	(52)	0.0014	1	R_LSQTFPNADFAEIT K .L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3136	579.9770	1736.9093	1736.8985	6.24	0	(56)	0.00056	1	R_LSQTFPNADFAEIT K .L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3137	869.4637	1736.9128	1736.8985	8.25	0	(57)	0.00044	1	R_LSQTFPNADFAEIT K .L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3157	582.6603	1744.9592	1744.9487	6.00	0	(59)	0.00033	1	R_LSQTFPNADFAEIT K .L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3158	582.6604	1744.9594	1744.9487	6.11	0	82	1.6e-006	1	R_LSQTFPNADFAEIT K .L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3159	873.4886	1744.9626	1744.9487	7.97	0	(55)	0.0007	1	R_LSQTFPNADFAEIT K .L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3590	647.0078	1938.0017	1937.9921	4.97	0	31	0.16	1	R_RPCFSALTVD E TVPK.E + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3729	672.7122	2015.1146	2015.1051	4.73	1	57	0.00042	1	R_YTQKAPQVSTPTLVEAAR.N + Dimethyl (K); Dimethyl (N-term)

<input checked="" type="checkbox"/>	3730	672.7122	2015.1147	2015.1051	4.77	1	(53)	0.0011	1	R_YTQKAPQVSTPTLVEAAR.N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3731	672.7129	2015.1167	2015.1051	5.76	1	(49)	0.0028	1	R_YTQKAPQVSTPTLVEAAR.N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3732	672.7129	2015.1168	2015.1051	5.82	1	(49)	0.0026	1	R_YTQKAPQVSTPTLVEAAR.N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3752	674.0498	2019.1277	2019.1302	-1.24	1	(40)	0.021	1	R_YTQKAPQVSTPTLVEAAR.N + Dimethyl (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3764	675.3959	2023.1657	2023.1554	5.13	1	(52)	0.00094	1	R_YTQKAPQVSTPTLVEAAR.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3765	675.3959	2023.1660	2023.1554	5.25	1	(55)	0.00049	1	R_YTQKAPQVSTPTLVEAAR.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3766	675.3959	2023.1660	2023.1554	5.25	1	(41)	0.012	1	R_YTQKAPQVSTPTLVEAAR.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3767	675.3961	2023.1663	2023.1554	5.43	1	(45)	0.0047	1	R_YTQKAPQVSTPTLVEAAR.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3768	675.3961	2023.1665	2023.1554	5.52	1	(57)	0.00031	1	R_YTQKAPQVSTPTLVEAAR.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4304	819.4523	2455.3352	2455.3148	8.29	1	46	0.0047	1	R_LSQTFPNADFAEITKLATDLTK.V + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4358	853.7758	2558.3056	2558.2839	8.50	1	69	2.8e-005	1	K_TNCDLYEKLGEGYGFQNALIVR.Y + Dimethyl (K); Dimethyl (N-term)

4. [IPI00131830](#) Mass: 47021 Score: 1124 Queries matched: 49 emPAI: 2.80

Tax_Id=10090 Gene_Symbol=Serpina3k Serine protease inhibitor A3K precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<input checked="" type="checkbox"/>	1060	339.2324	1014.6753	1014.6723	2.91	1	25	0.21	1	R_SVKVPMKM.M + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1174	351.5546	1051.6420	1051.6390	2.83	0	(44)	0.0062	1	K_LSVSQVVK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1175	351.5548	1051.6426	1051.6390	3.45	0	55	0.00054	1	K_LSVSQVVK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1210	354.2380	1059.6923	1059.6892	2.90	0	(41)	0.009	1	K_LSVSQVVK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1611	302.9493	1207.7680	1207.7652	2.31	1	(50)	0.0012	1	K_KLSVSVVVK.A + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1612	403.5966	1207.7680	1207.7652	2.31	1	(36)	0.03	1	K_KLSVSVVVK.A + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1613	403.5969	1207.7688	1207.7652	2.93	1	(26)	0.24	1	K_KLSVSVVVK.A + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1681	305.9680	1219.8431	1219.8406	2.05	1	57	6.9e-005	1	K_KLSVSVVVK.A + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1682	407.6218	1219.8436	1219.8406	2.44	1	(38)	0.0053	1	K_KLSVSVVVK.A + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1683	407.6220	1219.8441	1219.8406	2.89	1	(37)	0.005	1	K_KLSVSVVVK.A + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2949	553.2935	1656.8587	1656.8505	4.98	0	(27)	0.37	1	R_MQQVEASLQPETLR.K + Dimethyl (N-term)
<input checked="" type="checkbox"/>	2950	553.2939	1656.8597	1656.8505	5.58	0	(35)	0.055	1	R_MQQVEASLQPETLR.K + Dimethyl (N-term)
<input checked="" type="checkbox"/>	2951	829.4385	1656.8624	1656.8505	7.20	0	80	2.1e-006	1	R_MQQVEASLQPETLR.K + Dimethyl (N-term)
<input checked="" type="checkbox"/>	2969	831.4504	1660.8862	1660.8756	6.39	0	(70)	2e-005	1	R_MQQVEASLQPETLR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3003	839.4479	1676.8813	1676.8705	6.45	0	(53)	0.0012	1	R_MQQVEASLQPETLR.K + Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3020	562.3248	1683.9525	1683.9447	4.62	0	(46)	0.0051	1	K_TLFPSQIEELNLPK.F + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3021	562.3256	1683.9549	1683.9447	6.04	0	(57)	0.00045	1	K_TLFPSQIEELNLPK.F + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3022	842.9871	1683.9597	1683.9447	8.91	0	(99)	2.8e-008	1	K_TLFPSQIEELNLPK.F + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3042	565.0081	1692.0025	1691.9949	4.49	0	(49)	0.0018	1	K_TLFPSQIEELNLPK.F + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3043	565.0088	1692.0045	1691.9949	5.68	0	(56)	0.00037	1	K_TLFPSQIEELNLPK.F + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3044	565.0090	1692.0051	1691.9949	6.01	0	(53)	0.0007	1	K_TLFPSQIEELNLPK.F + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3045	847.0112	1692.0078	1691.9949	7.60	0	112	8.6e-010	1	K_TLFPSQIEELNLPK.F + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3289	605.3359	1812.9858	1812.9767	5.00	1	(51)	0.0017	1	R_MQQVEASLQPETLRK.W + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3290	605.3363	1812.9871	1812.9767	5.71	1	(60)	0.00023	1	R_MQQVEASLQPETLRK.W + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3318	608.0194	1821.0364	1821.0270	5.18	1	(49)	0.0024	1	R_MQQVEASLQPETLRK.W + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3319	608.0195	1821.0366	1821.0270	5.28	1	68	3.2e-005	1	R_MQQVEASLQPETLRK.W + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3372	614.3677	1840.0814	1840.0709	5.68	1	(44)	0.0053	1	R_KTLFPSQIEELNLPK.F + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3373	614.3678	1840.0817	1840.0709	5.86	1	(53)	0.00073	1	R_KTLFPSQIEELNLPK.F + 2 Dimethyl (K); Dimethyl (N-term)

<input checked="" type="checkbox"/>	3374	614.3682	1840.0827	1840.0709	6.40	1	(52)	0.00097	1	R_KTLFPPSQIEELNLPK.F + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3375	614.3683	1840.0832	1840.0709	6.67	1	(54)	0.00057	1	R_KTLFPPSQIEELNLPK.F + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3408	618.3925	1852.1557	1852.1463	5.10	1	55	0.00014	1	R_KTLFPPSQIEELNLPK.F + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3409	618.3926	1852.1561	1852.1463	5.29	1	(41)	0.0034	1	R_KTLFPPSQIEELNLPK.F + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3410	618.3936	1852.1588	1852.1463	6.77	1	(50)	0.00032	1	R_KTLFPPSQIEELNLPK.F + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3983	724.0675	2169.1807	2169.1641	7.66	0	99	3e-008	1	K_AVLDVAETGTEAAAATGVIGGIR.K + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3992	725.4079	2173.2017	2173.1892	5.75	0	(44)	0.0093	1	K_AVLDVAETGTEAAAATGVIGGIR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3993	725.4086	2173.2039	2173.1892	6.74	0	(39)	0.025	1	K_AVLDVAETGTEAAAATGVIGGIR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3994	725.4093	2173.2061	2173.1892	7.75	0	(35)	0.07	1	K_AVLDVAETGTEAAAATGVIGGIR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4003	731.0383	2190.0932	2190.0783	6.80	0	(35)	0.047	1	R_ALYQTEAFTADFQQPTEAK.N + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4046	739.0402	2214.0987	2214.0844	6.45	0	67	3.3e-005	1	R_ALYQTEAFTADFQQPTEAK.N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4047	739.0405	2214.0996	2214.0844	6.83	0	(62)	0.0001	1	R_ALYQTEAFTADFQQPTEAK.N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4048	739.0406	2214.1001	2214.0844	7.08	0	(58)	0.00029	1	R_ALYQTEAFTADFQQPTEAK.N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4049	739.0408	2214.1007	2214.0844	7.35	0	(59)	0.00024	1	R_ALYQTEAFTADFQQPTEAK.N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4074	741.7238	2222.1496	2222.1347	6.72	0	(51)	0.0019	1	R_ALYQTEAFTADFQQPTEAK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4075	741.7238	2222.1497	2222.1347	6.77	0	(34)	0.086	1	R_ALYQTEAFTADFQQPTEAK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4076	741.7238	2222.1497	2222.1347	6.77	0	(42)	0.012	1	R_ALYQTEAFTADFQQPTEAK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4077	741.7239	2222.1498	2222.1347	6.81	0	(54)	0.00091	1	R_ALYQTEAFTADFQQPTEAK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4166	776.1102	2325.3087	2325.2904	7.88	1	(66)	4.2e-005	1	K_AVLDVAETGTEAAAATGVIGGIRK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4167	776.1102	2325.3087	2325.2904	7.90	1	(62)	0.0001	1	K_AVLDVAETGTEAAAATGVIGGIRK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4174	778.7931	2333.3574	2333.3406	7.22	1	69	1.3e-005	1	K_AVLDVAETGTEAAAATGVIGGIRK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

5. [IPI00465786](#) Mass: 271832 Score: 808 Queries matched: 34 emPAI: 0.29

Tax_Id=10090 Gene_Symbol=Tln1 Talin-1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<input checked="" type="checkbox"/>	1248	543.3221	1084.6296	1084.6240	5.15	0	(54)	0.00077	1	K_NLGTALAE LR.T + Dimethyl (N-term)
<input checked="" type="checkbox"/>	1253	545.3346	1088.6547	1088.6491	5.13	0	61	0.00015	1	K_NLGTALAE LR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1265	548.3677	1094.7209	1094.7151	5.36	0	28	0.13	1	K_SIAAATSALVK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1323	557.3376	1112.6607	1112.6553	4.86	0	(61)	0.00016	1	K_GLAGAVSELLR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/>	1335	559.3502	1116.6858	1116.6805	4.76	0	69	2.3e-005	1	K_GLAGAVSELLR.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1559	597.3780	1192.7414	1192.7341	6.17	0	45	0.0038	1	R_AAMEPIVISAK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1585	601.3457	1200.6769	1200.6714	4.57	0	54	0.0008	1	K_EVANSTANLVK.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1619	605.3707	1208.7268	1208.7216	4.28	0	(51)	0.0013	1	K_EVANSTANLVK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1678	305.9428	1219.7421	1219.7401	1.71	1	34	0.063	1	K_LVQRLEHAAK.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1861	630.3448	1258.6751	1258.6703	3.85	0	(74)	6.4e-006	1	R_MATNAAQNAIK.K + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1884	634.3698	1266.7250	1266.7205	3.49	0	88	3e-007	1	R_MATNAAQNAIK.K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	1888	634.9125	1267.8104	1267.8025	6.21	0	48	0.0018	1	K_VMTNVTSLK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2312	474.2700	1419.7880	1419.7834	3.28	1	(31)	0.17	1	K_KSTVLQQQYNR.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	2346	476.9532	1427.8378	1427.8336	2.95	1	41	0.014	1	K_KSTVLQQQYNR.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2512	738.4029	1474.7912	1474.7813	6.71	0	56	0.00054	1	K_TMLESAGGLIQTAR.A + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3518	630.0055	1886.9947	1886.9850	5.17	0	70	2.3e-005	1	K_LLGEIAQGNENYAGIAAR.D + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3526	631.3476	1891.0210	1891.0101	5.75	0	(47)	0.0053	1	K_LLGEIAQGNENYAGIAAR.D + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3652	664.3527	1990.0363	1990.0258	5.27	1	48	0.004	1	K_AAAFEDQENETVVVKEK.M + 2 Dimethyl (K); Dimethyl (N-term)

<input checked="" type="checkbox"/>	3692	668.3777	2002.1114	2002.1012	5.10	1	(37)	0.049	1	K_AAFEDQENETVVVKEK.M + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3740	673.3845	2017.1317	2017.1208	5.44	1	44	0.0072	1	R_QFVQSAKEVANSTANLVK.T + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3741	673.3845	2017.1317	2017.1208	5.44	1	(39)	0.023	1	R_QFVQSAKEVANSTANLVK.T + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3756	674.3675	2020.0807	2020.0701	5.26	0	(72)	1.5e-005	1	K_QAAASATQTIAAAQHAASAPK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3757	674.3676	2020.0808	2020.0701	5.31	0	(79)	3e-006	1	K_QAAASATQTIAAAQHAASAPK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3774	677.0508	2028.1307	2028.1203	5.11	0	93	9.4e-008	1	K_QAAASATQTIAAAQHAASAPK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3775	677.0508	2028.1307	2028.1203	5.12	0	(80)	1.8e-006	1	K_QAAASATQTIAAAQHAASAPK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3779	677.4097	2029.2072	2029.1961	5.45	1	(39)	0.012	1	R_QFVQSAKEVANSTANLVK.T + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3841	685.7032	2054.0877	2054.0756	5.91	0	88	3.5e-007	1	R_LNEAAAGLNQAATELVQASR.G + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3851	687.0455	2058.1147	2058.1007	6.82	0	(44)	0.0094	1	R_LNEAAAGLNQAATELVQASR.G + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3890	696.7075	2087.1007	2087.0899	5.20	0	36	0.056	1	R_LLSDLLPSTGTGFQEAQSR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/>	4028	735.7631	2204.2675	2204.2528	6.68	0	(39)	0.02	1	K_LLAALEDEGGNGRPLLQAAK.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4038	553.0236	2208.0651	2208.0593	2.65	1	30	0.14	1	K_MVEAAKGAAHPDSEEQQR.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4042	738.4465	2212.3177	2212.3030	6.64	0	46	0.0017	1	K_LLAALEDEGGNGRPLLQAAK.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4189	781.4225	2341.2457	2341.2328	5.52	0	(31)	0.18	1	K_VGAIPANALDDGQWSQGLISAAR.M + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4190	781.4227	2341.2462	2341.2328	5.71	0	41	0.021	1	K_VGAIPANALDDGQWSQGLISAAR.M + Dimethyl:2H(4) (N-term)

6. [IPI00136929](#) Mass: 44029 Score: 797 Queries matched: 50 emPAI: 3.65

Tax_Id=10090 Gene_Symbol=Actg1 Gamma actin-like protein

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
435	350.7531	699.4916	699.4894	3.02	0	(33)	0.032	1	R_GILTLK.Y + Dimethyl (K); Dimethyl (N-term)
442	354.7782	707.5418	707.5397	3.07	0	(33)	0.029	1	R_GILTLK.Y + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
443	354.7784	707.5423	707.5397	3.76	0	42	0.0033	1	R_GILTLK.Y + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
642	412.2567	822.4988	822.4963	3.05	0	36	0.031	1	K_IIAPPER.K + Dimethyl (N-term)
1187	527.7816	1053.5486	1053.5416	6.59	0	46	0.003	1	R_DLTDYLMK.I + Dimethyl (K); Dimethyl (N-term)
1212	531.8063	1061.5981	1061.5918	5.91	0	(43)	0.0091	1	R_DLTDYLMK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
1437	580.7851	1159.5557	1159.5509	4.12	0	38	0.01	1	R_GYSFTTTAER.E + Dimethyl (N-term)
1438	580.7855	1159.5564	1159.5509	4.68	0	(32)	0.036	1	R_GYSFTTTAER.E + Dimethyl (N-term)
1446	582.7978	1163.5810	1163.5761	4.26	0	(31)	0.068	1	R_GYSFTTTAER.E + Dimethyl:2H(4) (N-term)
1447	582.7985	1163.5824	1163.5761	5.42	0	(34)	0.036	1	R_GYSFTTTAER.E + Dimethyl:2H(4) (N-term)
1653	609.3474	1216.6802	1216.6737	5.32	0	(42)	0.011	1	K_EITALAPSTMK.I + Dimethyl (K); Dimethyl (N-term)
1654	609.3474	1216.6802	1216.6737	5.32	0	(40)	0.016	1	K_EITALAPSTMK.I + Dimethyl (K); Dimethyl (N-term)
1705	613.3725	1224.7304	1224.7239	5.34	0	44	0.0071	1	K_EITALAPSTMK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
1706	613.3725	1224.7304	1224.7239	5.34	0	(42)	0.0098	1	K_EITALAPSTMK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
1777	617.3446	1232.6747	1232.6686	4.91	0	(32)	0.13	1	K_EITALAPSTMK.I + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
1778	617.3448	1232.6751	1232.6686	5.31	0	(33)	0.089	1	K_EITALAPSTMK.I + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
1817	621.3697	1240.7248	1240.7188	4.83	0	(30)	0.2	1	K_EITALAPSTMK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
1818	621.3698	1240.7251	1240.7188	5.03	0	(30)	0.21	1	K_EITALAPSTMK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
2305	473.5849	1417.7330	1417.7289	2.88	1	(25)	0.52	1	K_DSYVGDEAQSQR.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
2306	473.5851	1417.7335	1417.7289	3.27	1	50	0.0019	1	K_DSYVGDEAQSQR.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
2624	505.6606	1513.9601	1513.9543	3.86	1	42	0.004	1	K_EITALAPSTMKIK.I + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
2873	544.9758	1631.9057	1631.8990	4.09	1	(45)	0.007	1	R_MQKEITALAPSTMK.I + 2 Dimethyl (K); Dimethyl (N-term)
2874	544.9761	1631.9066	1631.8990	4.65	1	(44)	0.0083	1	R_MQKEITALAPSTMK.I + 2 Dimethyl (K); Dimethyl (N-term)
2907	549.0010	1643.9811	1643.9743	4.12	1	(41)	0.014	1	R_MQKEITALAPSTMK.I + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
2908	549.0011	1643.9815	1643.9743	4.34	1	51	0.0011	1	R_MQKEITALAPSTMK.I + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
2965	554.3323	1659.9752	1659.9693	3.57	1	(29)	0.2	1	R_MQKEITALAPSTMK.I + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)

3301	606.9832	1817.9277	1817.9159	6.49	0	(46)	0.0048	1	K_SYELPDGGVITIGNER.F + Dimethyl (N-term)
3302	909.9726	1817.9307	1817.9159	8.14	0	(90)	2e-007	1	K_SYELPDGGVITIGNER.F + Dimethyl (N-term)
3303	909.9731	1817.9317	1817.9159	8.69	0	(79)	2.5e-006	1	K_SYELPDGGVITIGNER.F + Dimethyl (N-term)
3323	608.3251	1821.9536	1821.9410	6.88	0	(30)	0.23	1	K_SYELPDGGVITIGNER.F + Dimethyl:2H(4) (N-term)
3324	911.9853	1821.9560	1821.9410	8.22	0	92	1.6e-007	1	K_SYELPDGGVITIGNER.F + Dimethyl:2H(4) (N-term)
3325	911.9858	1821.9570	1821.9410	8.76	0	(87)	5e-007	1	K_SYELPDGGVITIGNER.F + Dimethyl:2H(4) (N-term)
3440	934.4482	1866.8818	1866.9005	-10.00	0	28	0.15	1	M.EEEIAALVIDNGSGMCK.A + Dimethyl:2H(4) (K)
3705	670.7178	2009.1315	2009.1197	5.87	0	(40)	0.018	1	R_VAPEEHPVLLTEAPLNPK.R + Dimethyl (K); Dimethyl (N-term)
3706	670.7178	2009.1315	2009.1197	5.87	0	(37)	0.038	1	R_VAPEEHPVLLTEAPLNPK.R + Dimethyl (K); Dimethyl (N-term)
3707	670.7179	2009.1317	2009.1197	5.99	0	(41)	0.017	1	R_VAPEEHPVLLTEAPLNPK.R + Dimethyl (K); Dimethyl (N-term)
3708	670.7179	2009.1317	2009.1197	5.99	0	(44)	0.0084	1	R_VAPEEHPVLLTEAPLNPK.R + Dimethyl (K); Dimethyl (N-term)
3709	670.7180	2009.1322	2009.1197	6.24	0	(39)	0.023	1	R_VAPEEHPVLLTEAPLNPK.R + Dimethyl (K); Dimethyl (N-term)
3742	673.3995	2017.1767	2017.1699	3.37	0	(31)	0.095	1	R_VAPEEHPVLLTEAPLNPK.R + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
3746	673.4012	2017.1817	2017.1699	5.85	0	(44)	0.0051	1	R_VAPEEHPVLLTEAPLNPK.R + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
3747	673.4013	2017.1821	2017.1699	6.03	0	(42)	0.0083	1	R_VAPEEHPVLLTEAPLNPK.R + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
3748	673.4015	2017.1827	2017.1699	6.35	0	46	0.0029	1	R_VAPEEHPVLLTEAPLNPK.R + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
3749	673.4017	2017.1832	2017.1699	6.57	0	(45)	0.0039	1	R_VAPEEHPVLLTEAPLNPK.R + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
4239	800.4190	2398.2352	2398.2202	6.24	1	(51)	0.002	1	R_KDLYANTVLSGGTTMYPGLADR.M + Dimethyl (K); Dimethyl (N-term)
4240	800.4199	2398.2377	2398.2202	7.29	1	(71)	1.7e-005	1	R_KDLYANTVLSGGTTMYPGLADR.M + Dimethyl (K); Dimethyl (N-term)
4243	803.1025	2406.2856	2406.2705	6.29	1	(55)	0.00086	1	R_KDLYANTVLSGGTTMYPGLADR.M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
4244	803.1038	2406.2897	2406.2705	8.00	1	(32)	0.18	1	R_KDLYANTVLSGGTTMYPGLADR.M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
4245	803.1039	2406.2898	2406.2705	8.04	1	(58)	0.00042	1	R_KDLYANTVLSGGTTMYPGLADR.M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
4257	805.7502	2414.2289	2414.2151	5.70	1	77	4e-006	1	R_KDLYANTVLSGGTTMYPGLADR.M + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
4260	808.4335	2422.2788	2422.2654	5.52	1	(60)	0.00022	1	R_KDLYANTVLSGGTTMYPGLADR.M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)

7. [IPI00114375](#) Mass: 62638 Score: 658 Queries matched: 30 emPAI: 1.53

Tax_Id=10090 Gene_Symbol=Dpys12 Dihydropyrimidinase-related protein 2

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 828	468.7706	935.5267	935.5229	4.12	0	54	0.00056	1	K_VFNLYPR.K + Dimethyl (N-term)
<input checked="" type="checkbox"/> 839	470.7831	939.5516	939.5480	3.86	0	(50)	0.0013	1	K_VFNLYPR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1132	522.2976	1042.5807	1042.5771	3.50	0	58	0.00029	1	K_SAAEVIAQAR.K + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1156	524.3103	1046.6061	1046.6022	3.69	0	(52)	0.0013	1	K_SAAEVIAQAR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1328	372.2458	1113.7154	1113.7121	2.99	1	31	0.086	1	R_ITSDRLLIK.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1395	570.8561	1139.6977	1139.6914	5.54	0	48	0.002	1	R_GSPLVVISQGK.I + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2029	441.5809	1321.7207	1321.7177	2.32	0	(40)	0.019	1	R_MVIPGGIDVHTR.F + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2044	442.9225	1325.7456	1325.7428	2.15	0	(49)	0.0021	1	R_MVIPGGIDVHTR.F + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2092	446.9131	1337.7176	1337.7126	3.77	0	59	0.00024	1	R_MVIPGGIDVHTR.F + Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2101	448.2549	1341.7429	1341.7377	3.89	0	(56)	0.00047	1	R_MVIPGGIDVHTR.F + Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2200	690.4215	1378.8285	1378.8184	7.30	0	(59)	0.00019	1	K_QIGENLIVPGGVK.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2223	694.4466	1386.8786	1386.8686	7.22	0	62	6.3e-005	1	K_QIGENLIVPGGVK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3080	570.9752	1709.9037	1709.8948	5.20	0	80	2.1e-006	1	K_IVLEDGTLHVTEGSGR.Y + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3092	572.3168	1713.9287	1713.9199	5.10	0	(76)	5.6e-006	1	K_IVLEDGTLHVTEGSGR.Y + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3232	597.3156	1788.9250	1788.9168	4.61	0	42	0.013	1	K_MDENQFVAVTSTNAAK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4010	733.0432	2196.1077	2196.0923	7.01	0	63	0.00011	1	R_NLHQSGFSLGAQIDDNIPR.R + Dimethyl (N-term)
<input checked="" type="checkbox"/> 4015	734.3834	2200.1283	2200.1174	4.91	0	(30)	0.22	1	R_NLHQSGFSLGAQIDDNIPR.R + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4016	734.3845	2200.1317	2200.1174	6.49	0	(55)	0.00082	1	R_NLHQSGFSLGAQIDDNIPR.R + Dimethyl:2H(4) (N-term)

<input checked="" type="checkbox"/>	4017	734.3845	2200.1317	2200.1174	6.49	0	(48)	0.0039	1	R_NLHQSGFSLSGAQIDDNIPR.R + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4018	734.3849	2200.1327	2200.1174	6.94	0	(26)	0.57	1	R_NLHQSGFSLSGAQIDDNIPR.R + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4019	734.3849	2200.1327	2200.1174	6.94	0	(30)	0.25	1	R_NLHQSGFSLSGAQIDDNIPR.R + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4024	735.3827	2203.1264	2203.1121	6.52	1	(35)	0.067	1	K_AVGKDNFTLIEPTNGTEER.M + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4029	552.3210	2205.2548	2205.2481	3.06	2	36	0.037	1	K_TVTPASSAKTSPAQQAPPVR.N + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4030	736.3365	2205.9877	2205.9711	7.53	0	(46)	0.00089	1	R_FQMPDQGMTSADDFQGTK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4031	736.3373	2205.9900	2205.9711	8.57	0	(56)	9.9e-005	1	R_FQMPDQGMTSADDFQGTK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4041	738.0657	2211.1754	2211.1623	5.91	1	38	0.043	1	K_AVGKDNFTLIEPTNGTEER.M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4045	739.0210	2214.0412	2214.0213	8.95	0	57	0.00018	1	R_FQMPDQGMTSADDFQGTK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4554	732.8967	2927.5577	2927.5352	7.69	0	61	0.00017	1	R_ILDLGITGPEGHVLSRPEEVEAEAVNR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/>	4560	733.9027	2931.5817	2931.5603	7.30	0	(48)	0.0026	1	R_ILDLGITGPEGHVLSRPEEVEAEAVNR.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4561	733.9027	2931.5817	2931.5603	7.30	0	(55)	0.00065	1	R_ILDLGITGPEGHVLSRPEEVEAEAVNR.S + Dimethyl:2H(4) (N-term)

8. [IPI00405058](#) Mass: 32497 Score: 637 Queries matched: 27 emPAI: 3.27
Tax_Id=10090 Gene_Symbol=Hnrnpa2b1 Isoform 3 of Heterogeneous nuclear ribonucleoproteins A2/B1
 Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<input checked="" type="checkbox"/>	1128	521.2433	1040.4720	1040.4676	4.27	0	66	5.4e-006	1	R_GGNFGFGDSR.G + Dimethyl (N-term)
<input checked="" type="checkbox"/>	1144	523.2556	1044.4967	1044.4927	3.86	0	(63)	1.8e-005	1	R_GGNFGFGDSR.G + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2273	703.3381	1404.6617	1404.6535	5.86	0	(75)	2.7e-006	1	R_GGGGNFGPGPSNFR.G + Dimethyl (N-term)
<input checked="" type="checkbox"/>	2285	705.3499	1408.6852	1408.6786	4.65	0	76	2.9e-006	1	R_GGGGNFGPGPSNFR.G + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2383	360.4357	1437.7137	1437.7113	1.69	0	(40)	0.012	1	K_YHTINGHNAEVR.K + Dimethyl (N-term)
<input checked="" type="checkbox"/>	2384	480.2455	1437.7145	1437.7113	2.26	0	(34)	0.043	1	K_YHTINGHNAEVR.K + Dimethyl (N-term)
<input checked="" type="checkbox"/>	2401	481.5872	1441.7398	1441.7364	2.37	0	45	0.0047	1	K_YHTINGHNAEVR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2997	559.6195	1675.8367	1675.8311	3.34	1	(37)	0.026	1	K_ALSRQEMQEVQSSR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3011	560.9612	1679.8617	1679.8562	3.25	1	(38)	0.031	1	K_ALSRQEMQEVQSSR.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3012	560.9614	1679.8624	1679.8562	3.69	1	(41)	0.016	1	K_ALSRQEMQEVQSSR.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3039	564.9512	1691.8317	1691.8260	3.35	1	46	0.0027	1	K_ALSRQEMQEVQSSR.S + Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3056	566.2930	1695.8571	1695.8512	3.48	1	(26)	0.43	1	K_ALSRQEMQEVQSSR.S + Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3312	455.7663	1819.0362	1819.0316	2.55	1	26	0.56	1	R_AVAREESGKPGAHVTVK.K + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3352	611.6620	1831.9641	1831.9574	3.69	2	(34)	0.095	1	R_KALSRQEMQEVQSSR.S + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3371	614.3457	1840.0153	1840.0076	4.17	2	(33)	0.13	1	R_KALSRQEMQEVQSSR.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3388	616.9935	1847.9586	1847.9523	3.39	2	(35)	0.064	1	R_KALSRQEMQEVQSSR.S + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3423	619.6769	1856.0090	1856.0025	3.48	2	41	0.017	1	R_KALSRQEMQEVQSSR.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3647	398.4496	1987.2114	1987.2080	1.70	2	30	0.079	1	K_RAVAREESGKPGAHVTVK.K + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3648	398.4496	1987.2117	1987.2080	1.87	2	(29)	0.077	1	K_RAVAREESGKPGAHVTVK.K + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4071	741.3292	2220.9657	2220.9545	5.01	0	(97)	4.3e-009	1	R_NMGGPYGGGNYGPGSGSGGGYGR.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4072	741.3292	2220.9657	2220.9545	5.04	0	(78)	3.1e-007	1	R_NMGGPYGGGNYGPGSGSGGGYGR.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4089	745.3195	2232.9367	2232.9243	5.55	0	102	4.5e-010	1	R_NMGGPYGGGNYGPGSGSGGGYGR.S + Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4095	746.6612	2236.9617	2236.9494	5.49	0	(50)	0.00015	1	R_NMGGPYGGGNYGPGSGSGGGYGR.S + Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	4218	591.0710	2360.2547	2360.2417	5.53	1	(45)	0.0084	1	R_GFGFVTFDDHDPVDKIVLQK.Y + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4219	591.0710	2360.2548	2360.2417	5.58	1	(46)	0.006	1	R_GFGFVTFDDHDPVDKIVLQK.Y + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4224	594.0905	2372.3327	2372.3170	6.62	1	(42)	0.011	1	R_GFGFVTFDDHDPVDKIVLQK.Y + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4225	594.0905	2372.3327	2372.3170	6.62	1	46	0.0042	1	R_GFGFVTFDDHDPVDKIVLQK.Y + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00622847](#) Mass: 36014 Score: 637 Queries matched: 27
 Tax_Id=10090 Gene_Symbol=Hnrnpa2b1 Isoform 2 of Heterogeneous nuclear ribonucleoproteins A2/B1
[IPI00828488](#) Mass: 37437 Score: 637 Queries matched: 27
 Tax_Id=10090 Gene_Symbol=Hnrnpa2b1 Isoform 1 of Heterogeneous nuclear ribonucleoproteins A2/B1
[IPI00853914](#) Mass: 87852 Score: 637 Queries matched: 27
 Tax_Id=10090 Gene_Symbol=LOC100045191 similar to heterogeneous nuclear ribonucleoprotein A2/B1

9. [IPI00128642](#) Mass: 26056 Score: 633 Queries matched: 27 emPAI: 9.63

Tax_Id=10090 Gene_Symbol=Cbr2 Lung carbonyl reductase

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 659	417.7471	833.4796	833.4759	4.39	0	44	0.006	1	K_LNFSGLR.A + Dimethyl (N-term)
<input checked="" type="checkbox"/> 662	419.7596	837.5046	837.5010	4.20	0	(28)	0.19	1	K_LNFSGLR.A + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 699	425.7436	849.4727	849.4708	2.22	0	(26)	0.35	1	R_SFSVNL.R.S + Dimethyl (N-term)
<input checked="" type="checkbox"/> 703	427.7562	853.4978	853.4960	2.13	0	43	0.0064	1	R_SFSVNL.R.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 794	454.7523	907.4900	907.4871	3.25	0	54	0.0005	1	K_GAMTMLTK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1289	552.3210	1102.6274	1102.6234	3.67	0	38	0.033	1	R_TNSDLVSLAK.E + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1316	556.3461	1110.6777	1110.6736	3.69	0	(35)	0.043	1	R_TNSDLVSLAK.E + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1347	374.5561	1120.6464	1120.6427	3.38	1	44	0.0083	1	-.M KL NFSGLR.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1366	377.2397	1128.6972	1128.6929	3.84	1	(40)	0.015	1	-.M KL NFSGLR.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1380	379.8875	1136.6406	1136.6376	2.67	1	(41)	0.013	1	-.M KL NFSGLR.A + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 1393	380.8697	1139.5872	1139.5831	3.57	0	(64)	4.7e-005	1	K_AMAMELGPHK.I + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1401	382.5710	1144.6912	1144.6878	2.98	1	(33)	0.082	1	-.M KL NFSGLR.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 1409	383.5530	1147.6372	1147.6333	3.38	0	(58)	0.00032	1	K_AMAMELGPHK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1450	388.8840	1163.6303	1163.6282	1.75	0	64	6.1e-005	1	K_AMAMELGPHK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 1918	640.3486	1278.6827	1278.6754	5.69	0	(69)	2.2e-005	1	R_SVFQVSQMVAR.D + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1926	642.3616	1282.7087	1282.7006	6.36	0	74	6.5e-006	1	R_SVFQVSQMVAR.D + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1948	648.3456	1294.6767	1294.6704	4.91	0	(40)	0.015	1	R_SVFQVSQMVAR.D + Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 1958	650.3582	1298.7019	1298.6955	4.92	0	(48)	0.0024	1	R_SVFQVSQMVAR.D + Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2860	815.4538	1628.8930	1628.8808	7.54	0	98	3.6e-008	1	R_VNSVNPTVVLTD MGK .K + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2894	819.4785	1636.9424	1636.9310	6.95	0	(95)	6e-008	1	R_VNSVNPTVVLTD MGK .K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2911	549.3015	1644.8827	1644.8757	4.28	0	(40)	0.024	1	R_VNSVNPTVVLTD MGK .K + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2930	827.4266	1652.8387	1652.8257	7.86	0	78	2.6e-006	1	R_SASTSGGGILVDAGYLAS.- + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2934	551.9850	1652.9331	1652.9259	4.37	0	(28)	0.34	1	R_VNSVNPTVVLTD MGK .K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2952	829.4385	1656.8625	1656.8508	7.05	0	(43)	0.01	1	R_SASTSGGGILVDAGYLAS.- + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3542	633.6998	1898.0777	1898.0659	6.22	1	63	0.0001	1	K_IRVNSVNPTVVLTD MGK .K + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3553	636.3837	1906.1292	1906.1162	6.83	1	(41)	0.0092	1	K_IRVNSVNPTVVLTD MGK .K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4510	695.3760	2777.4748	2777.4935	-6.74	2	42	0.015	1	R_VNSVNPTVVLTD MGK VSADPEFAR.K + 2 Dimethyl (K); Dimethyl:2H(4) (N-term); Oxidation (M)

10. [IPI00229080](#) Mass: 83571 Score: 579 Queries matched: 19 emPAI: 0.73

Tax_Id=10090 Gene_Symbol=Hsp90ab1 Heat shock protein 84b

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 713	429.2858	856.5570	856.5534	4.14	0	(39)	0.017	1	R_ALLFIPR.R + Dimethyl (N-term)
<input checked="" type="checkbox"/> 729	431.2984	860.5822	860.5786	4.22	0	42	0.009	1	R_ALLFIPR.R + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1690	611.8466	1221.6787	1221.6717	5.74	0	32	0.14	1	K_IDIIPNPQER.T + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1956	649.8915	1297.7685	1297.7605	6.17	0	(60)	0.00019	1	K_ADLINNLGTIAK.S + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1988	653.9164	1305.8183	1305.8107	5.81	0	69	1.4e-005	1	K_ADLINNLGTIAK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2061	666.3602	1330.7058	1330.6980	5.87	0	60	0.00016	1	R_ELISNASDALDK.I + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2276	703.4070	1404.7995	1404.7898	6.92	0	(62)	0.00014	1	R_TLTLVDTGIGMTK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2295	707.4320	1412.8495	1412.8400	6.67	0	(46)	0.0039	1	R_TLTLVDTGIGMTK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2318	474.6043	1420.7910	1420.7847	4.42	0	(44)	0.0086	1	R_TLTLVDTGIGMTK.A + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2319	711.4047	1420.7949	1420.7847	7.15	0	68	3.6e-005	1	R_TLTLVDTGIGMTK.A + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2353	477.2876	1428.8411	1428.8350	4.26	0	(44)	0.0079	1	R_TLTLVDTGIGMTK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2355	715.4290	1428.8434	1428.8350	5.87	0	(52)	0.0012	1	R_TLTLVDTGIGMTK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2692	771.4176	1540.8207	1540.8097	7.17	0	(104)	8.9e-009	1	R_GVVVSEDLPLNISR.E + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2699	773.4298	1544.8451	1544.8348	6.65	0	113	1.1e-009	1	R_GVVVSEDLPLNISR.E + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2812	536.9876	1607.9410	1607.9334	4.75	1	43	0.0087	1	R_ELISNASDALDKIR.Y + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3279	604.3350	1809.9831	1809.9737	5.16	0	80	2.6e-006	1	K_HLEINPDHPIVETLR.Q + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3280	604.3350	1809.9832	1809.9737	5.26	0	(55)	0.00082	1	K_HLEINPDHPIVETLR.Q + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3293	605.6768	1814.0087	1813.9988	5.46	0	(39)	0.031	1	K_HLEINPDHPIVETLR.Q + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4026	735.6685	2203.9837	2203.9692	6.61	0	58	5.2e-005	1	R_YHTSQSGDEMTSLSEYVSR.M + Dimethyl (N-term)

11. [IPI00554929](#) Mass: 83615 Score: 565 Queries matched: 17 emPAI: 0.63

Tax_Id=10090 Gene_Symbol=Hsp90ab1 Heat shock protein HSP 90-beta

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
1690	611.8466	1221.6787	1221.6717	5.74	0	32	0.14	1	K_IDIIPNPQER.T + Dimethyl (N-term)
1956	649.8915	1297.7685	1297.7605	6.17	0	(60)	0.00019	1	K_ADLINNLGTIAK.S + Dimethyl (K); Dimethyl (N-term)
1988	653.9164	1305.8183	1305.8107	5.81	0	69	1.4e-005	1	K_ADLINNLGTIAK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
2061	666.3602	1330.7058	1330.6980	5.87	0	60	0.00016	1	R_ELISNASDALDK.I + Dimethyl (K); Dimethyl (N-term)
2276	703.4070	1404.7995	1404.7898	6.92	0	(62)	0.00014	1	R_TLTLVDTGIGMTK.A + Dimethyl (K); Dimethyl (N-term)
2295	707.4320	1412.8495	1412.8400	6.67	0	(46)	0.0039	1	R_TLTLVDTGIGMTK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
2318	474.6043	1420.7910	1420.7847	4.42	0	(44)	0.0086	1	R_TLTLVDTGIGMTK.A + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
2319	711.4047	1420.7949	1420.7847	7.15	0	68	3.6e-005	1	R_TLTLVDTGIGMTK.A + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
2353	477.2876	1428.8411	1428.8350	4.26	0	(44)	0.0079	1	R_TLTLVDTGIGMTK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
2355	715.4290	1428.8434	1428.8350	5.87	0	(52)	0.0012	1	R_TLTLVDTGIGMTK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
2692	771.4176	1540.8207	1540.8097	7.17	0	(104)	8.9e-009	1	R_GVVVSEDLPLNISR.E + Dimethyl (N-term)
2699	773.4298	1544.8451	1544.8348	6.65	0	113	1.1e-009	1	R_GVVVSEDLPLNISR.E + Dimethyl:2H(4) (N-term)
2812	536.9876	1607.9410	1607.9334	4.75	1	43	0.0087	1	R_ELISNASDALDKIR.Y + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
3279	604.3350	1809.9831	1809.9737	5.16	0	80	2.6e-006	1	K_HLEINPDHPIVETLR.Q + Dimethyl (N-term)
3280	604.3350	1809.9832	1809.9737	5.26	0	(55)	0.00082	1	K_HLEINPDHPIVETLR.Q + Dimethyl (N-term)
3293	605.6768	1814.0087	1813.9988	5.46	0	(39)	0.031	1	K_HLEINPDHPIVETLR.Q + Dimethyl:2H(4) (N-term)
4026	735.6685	2203.9837	2203.9692	6.61	0	58	5.2e-005	1	R_YHTSQSGDEMTSLSEYVSR.M + Dimethyl (N-term)

12. [IPI00132722](#) Mass: 36520 Score: 512 Queries matched: 17 emPAI: 1.79

Tax_Id=10090 Gene_Symbol=Anxa3 Annexin A3

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 885	479.2921	956.5697	956.5655	4.46	0	65	5.6e-005	1	K_ALLTLADGR.R + Dimethyl (N-term)
<input checked="" type="checkbox"/> 890	481.3043	960.5941	960.5906	3.66	0	(59)	0.00023	1	K_ALLTLADGR.R + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 921	488.2602	974.5059	974.5011	4.92	0	30	0.11	1	K_LTFDEYR.N + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1279	550.8402	1099.6659	1099.6601	5.26	0	(53)	0.0011	1	K_TLINILTER.S + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1292	552.8527	1103.6908	1103.6852	5.05	0	60	0.00015	1	K_TLINILTER.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1299	553.3267	1104.6388	1104.6328	5.37	0	66	5.7e-005	1	R_SEIDLDIR.H + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2759	526.2942	1575.8607	1575.8548	3.77	1	41	0.018	1	K_EISQAYTVYKK.S + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2784	530.3195	1587.9367	1587.9301	4.14	1	(40)	0.016	1	K_EISQAYTVYKK.S + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2816	807.3731	1612.7317	1612.7217	6.24	0	(70)	3.9e-006	1	K_SLGDDISSETSGDFR.K + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2824	809.3854	1616.7563	1616.7468	5.90	0	82	4.1e-007	1	K_SLGDDISSETSGDFR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3884	693.7008	2078.0807	2078.0684	5.93	1	(62)	0.00015	1	R_GTIKDYPGFSPVDAEAIR.K + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3885	693.7009	2078.0808	2078.0684	5.95	1	64	9.9e-005	1	R_GTIKDYPGFSPVDAEAIR.K + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3889	696.3832	2086.1277	2086.1186	4.35	1	(48)	0.0044	1	R_GTIKDYPGFSPVDAEAIR.K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3932	711.0565	2130.1477	2130.1330	6.93	1	49	0.0028	1	K_SMKGTGTDEDALIEILTTR.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 4091	559.5584	2234.2045	2234.1947	4.42	2	73	1.2e-005	1	R_GTIKDYPGFSPVDAEAIRK.A + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4092	559.5585	2234.2047	2234.1947	4.50	2	(63)	0.00012	1	R_GTIKDYPGFSPVDAEAIRK.A + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4107	562.5775	2246.2807	2246.2700	4.77	2	(60)	0.00015	1	R_GTIKDYPGFSPVDAEAIRK.A + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

13. [IPI00323357](#) Mass: 71055 Score: 502 Queries matched: 23 emPAI: 0.83

Tax_Id=10090 Gene_Symbol=Hspa8 Heat shock cognate 71 kDa protein

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1146	349.2020	1044.5843	1044.5815	2.65	1	26	0.46	1	R_LSKEDIER.M + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1726	614.3606	1226.7067	1226.6983	6.89	0	61	0.00015	1	K_DAGTIAGLNVLRI.I + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1766	616.3731	1230.7317	1230.7234	6.77	0	(47)	0.0036	1	K_DAGTIAGLNVLRI.I + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2085	446.2580	1335.7523	1335.7471	3.82	1	40	0.018	1	K_MKEIAEAYLGK.T + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2122	450.2832	1347.8278	1347.8225	3.92	1	(30)	0.1	1	K_MKEIAEAYLGK.T + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2625	758.3746	1514.7347	1514.7253	6.22	0	70	7.8e-006	1	R_TTPSYVAFDTER.L + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2639	760.3879	1518.7612	1518.7504	7.10	0	(39)	0.018	1	R_TTPSYVAFDTER.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3014	840.9620	1679.9094	1679.8932	9.66	0	68	4.3e-005	1	K_SFYPEEVSSMVLTK.M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3018	561.9995	1682.9767	1682.9679	5.23	1	67	3.3e-005	1	R_QATKDAGTIAGLNVLRI.I + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3037	564.6832	1691.0277	1691.0181	5.67	1	(49)	0.0013	1	R_QATKDAGTIAGLNVLRI.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3101	573.9262	1718.7567	1718.7496	4.13	0	45	0.0006	1	K_STAGDTHLGGEDFDNR.M + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3107	575.2679	1722.7818	1722.7747	4.11	0	(32)	0.023	1	K_STAGDTHLGGEDFDNR.M + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3444	624.7032	1871.0877	1871.0767	5.87	1	(61)	0.00012	1	R_IINEPTAAAIAYGLDKK.V + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3445	624.7038	1871.0897	1871.0767	6.94	1	(57)	0.00032	1	R_IINEPTAAAIAYGLDKK.V + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3461	626.6592	1876.9559	1876.9465	4.99	1	(33)	0.093	1	K_NQVAMNPTNTVFDKR.L + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 3462	626.6593	1876.9561	1876.9465	5.09	1	36	0.053	1	K_NQVAMNPTNTVFDKR.L + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 3500	628.7285	1883.1635	1883.1521	6.08	1	78	9.1e-007	1	R_IINEPTAAAIAYGLDKK.V + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3501	628.7285	1883.1637	1883.1521	6.18	1	(77)	1.3e-006	1	R_IINEPTAAAIAYGLDKK.V + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

<input checked="" type="checkbox"/>	3509	629.3427	1885.0063	1884.9968	5.07	1	(34)	0.11	1	K_NQVAMNPTNTVFD AKR .L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3510	629.3430	1885.0072	1884.9968	5.56	1	(31)	0.21	1	K_NQVAMNPTNTVFD AKR .L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3700	670.6862	2009.0367	2009.0218	7.42	0	40	0.021	1	K_TVTVNAVVTVPAYFNDSQR.Q + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3725	672.0277	2013.0613	2013.0469	7.14	0	(29)	0.3	1	K_TVTVNAVVTVPAYFNDSQR.Q + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3726	672.0278	2013.0617	2013.0469	7.35	0	(32)	0.13	1	K_TVTVNAVVTVPAYFNDSQR.Q + Dimethyl:2H(4) (N-term)

14. [IPI00135284](#) Mass: 36092 Score: 475 Queries matched: 14 emPAI: 1.29

Tax_Id=10090 Gene_Symbol=LOC100044454;LOC100039214 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<input checked="" type="checkbox"/>	1999	436.9481	1307.8225	1307.8176	3.74	1	48	0.0017	1	K_AVGKVIPELNGK.L + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	2026	440.9732	1319.8979	1319.8930	3.70	1	(47)	0.00059	1	K_AVGKVIPELNGK.L + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2291	706.8668	1411.7190	1411.7091	7.00	1	(77)	2.5e-006	1	R_VVDLMAYMASKE.- + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	2311	710.8921	1419.7696	1419.7593	7.27	1	(79)	2.9e-006	1	R_VVDLMAYMASKE.- + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2335	713.4106	1424.8066	1424.7987	5.56	0	(56)	0.00059	1	R_GAAQNIIPASTGAAK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	2344	714.8636	1427.7126	1427.7040	6.04	1	(51)	0.00084	1	R_VVDLMAYMASKE.- + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	2345	714.8646	1427.7147	1427.7040	7.49	1	80	1.3e-006	1	R_VVDLMAYMASKE.- + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	2368	717.4359	1432.8573	1432.8489	5.83	0	62	0.00011	1	R_GAAQNIIPASTGAAK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2374	718.8894	1435.7643	1435.7542	6.98	1	(56)	0.0005	1	R_VVDLMAYMASKE.- + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	2375	718.8900	1435.7654	1435.7542	7.75	1	(59)	0.00028	1	R_VVDLMAYMASKE.- + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	2406	722.8607	1443.7069	1443.6989	5.52	1	(74)	4.3e-006	1	R_VVDLMAYMASKE.- + Dimethyl (K); Dimethyl (N-term); 2 Oxidation (M)
<input checked="" type="checkbox"/>	2442	726.8855	1451.7564	1451.7491	5.03	1	(72)	9.7e-006	1	R_VVDLMAYMASKE.- + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); 2 Oxidation (M)
<input checked="" type="checkbox"/>	3170	585.3259	1752.9560	1752.9482	4.42	1	38	0.036	1	R_DGRGAAQNIIPASTGAAK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3253	603.2852	1806.8337	1806.8213	6.89	0	33	0.032	1	K_LISWYDNEYGYSNR.V + Dimethyl (N-term)

Proteins matching the same set of peptides:

[IPI00273646](#) Mass: 36072 Score: 475 Queries matched: 14
Tax_Id=10090 Gene_Symbol=LOC100040053;LOC100042025;Gapdh;AK190093;ENSMUSG00000070490;ENSMUSG00000071343;LOC100048291;ENSMUSG00000068459;LOC100041325;LOC100042746;I

[IPI00319731](#) Mass: 37674 Score: 475 Queries matched: 14
Tax_Id=10090 Gene_Symbol=LOC100044981 similar to Glyceraldehyde-3-phosphate dehydrogenase

[IPI00462008](#) Mass: 36271 Score: 475 Queries matched: 14
Tax_Id=10090 Gene_Symbol=LOC100047352 similar to Glyceraldehyde-3-phosphate dehydrogenase

[IPI00620663](#) Mass: 31288 Score: 475 Queries matched: 14
Tax_Id=10090 Gene_Symbol=LOC100042025 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 3

[IPI00622795](#) Mass: 36074 Score: 475 Queries matched: 14
Tax_Id=10090 Gene_Symbol=LOC100042427 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1

[IPI00663957](#) Mass: 36233 Score: 475 Queries matched: 14
Tax_Id=10090 Gene_Symbol=LOC100045120 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1

[IPI00752289](#) Mass: 36308 Score: 475 Queries matched: 14
Tax_Id=10090 Gene_Symbol=LOC100039258 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1

[IPI00848411](#) Mass: 31260 Score: 475 Queries matched: 14
Tax_Id=10090 Gene_Symbol=LOC100039840 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 2

[IPI00848801](#) Mass: 36100 Score: 475 Queries matched: 14
Tax_Id=10090 Gene_Symbol=LOC100043724 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1

[IPI00848807](#) Mass: 35838 Score: 475 Queries matched: 14

Tax_Id=10090 Gene_Symbol=LOC100048253 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1
[IPI00849031](#) Mass: 34185 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=LOC100041342;LOC100042746;LOC100046067 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 2
[IPI00849045](#) Mass: 36072 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=LOC100039762 similar to Glyceraldehyde-3-phosphate dehydrogenase
[IPI00849049](#) Mass: 31348 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=LOC100046224;LOC100040634 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 2
[IPI00849530](#) Mass: 36074 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=LOC100039229 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1
[IPI00850062](#) Mass: 31248 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=LOC100047232 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 3
[IPI00850243](#) Mass: 31122 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=LOC100048253 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 2
[IPI00850337](#) Mass: 36044 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=LOC100048117 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1
[IPI00850377](#) Mass: 35975 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=LOC100039840 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1
[IPI00850432](#) Mass: 31302 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=LOC100039229 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 3
[IPI00850434](#) Mass: 36149 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=LOC100040898;LOC100045141 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1
[IPI00850760](#) Mass: 31520 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=LOC100039258 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 3
[IPI00851086](#) Mass: 36032 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=LOC100047232 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1
[IPI00853668](#) Mass: 36136 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=LOC100046224;LOC100040634 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1
[IPI00874682](#) Mass: 36038 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=- 36 kDa protein
[IPI00874820](#) Mass: 36024 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=- 36 kDa protein
[IPI00874964](#) Mass: 36512 Score: 475 Queries matched: 14
 Tax_Id=10090 Gene_Symbol=- 36 kDa protein

15. [IPI00123313](#) Mass: 118931 Score: 470 Queries matched: 18 emPAI: 0.32

Tax_Id=10090 Gene_Symbol=Ubely1;Ubelx Ubiquitin-activating enzyme E1 X

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 744	435.2964	868.5783	868.5746	4.28	0	27	0.16	1	K_NIILGGVK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 750	439.3217	876.6288	876.6248	4.51	0	(26)	0.091	1	K_NIILGGVK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1459	389.5839	1165.7298	1165.7270	2.34	1	60	0.00013	1	K_LKSDTAAAVR.Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1564	399.2652	1194.7739	1194.7700	3.23	1	61	6.6e-005	1	R_GGIVSQVKVPK.K + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1609	403.2903	1206.8489	1206.8453	2.97	1	(45)	0.00048	1	R_GGIVSQVKVPK.K + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1756	615.8231	1229.6317	1229.6252	5.34	0	73	5.7e-006	1	K_QNSLDEDLIR.K + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1783	617.8356	1233.6566	1233.6503	5.13	0	(73)	8.7e-006	1	K_QNSLDEDLIR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2923	551.3198	1650.9377	1650.9305	4.40	0	58	0.0003	1	R_LAGTQPLEVLEAVQR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2938	552.6617	1654.9632	1654.9556	4.62	0	(47)	0.0036	1	R_LAGTQPLEVLEAVQR.S + Dimethyl:2H(4) (N-term)

<input checked="" type="checkbox"/>	3152	581.9605	1742.8597	1742.8522	4.31	0	(79)	1.4e-006	1	R_QMNPYIQVTS HQNR.V + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3164	583.3022	1746.8847	1746.8773	4.23	0	(50)	0.0018	1	R_QMNPYIQVTS HQNR.V + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3184	587.2918	1758.8536	1758.8471	3.67	0	83	4.7e-007	1	R_QMNPYIQVTS HQNR.V + Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3194	588.6342	1762.8807	1762.8723	4.80	0	(45)	0.0048	1	R_QMNPYIQVTS HQNR.V + Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3576	643.3329	1926.9768	1926.9646	6.32	0	80	2.1e-006	1	R_NEEDATELVGLAQAVNAR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3577	643.3333	1926.9781	1926.9646	6.99	0	(60)	0.00023	1	R_NEEDATELVGLAQAVNAR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3582	644.6745	1931.0017	1930.9898	6.17	0	(33)	0.12	1	R_NEEDATELVGLAQAVNAR.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3607	650.3942	1948.1607	1948.1485	6.28	0	(39)	0.012	1	R_AAVASLLQSVQVPEFTPK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3608	650.3943	1948.1612	1948.1485	6.53	0	41	0.0087	1	R_AAVASLLQSVQVPEFTPK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

16. [IPI00221402](#) Mass: 39787 Score: 470 Queries matched: 15 emPAI: 1.13

Tax_Id=10090 Gene_Symbol=Aldoa Fructose-bisphosphate aldolase A

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<input checked="" type="checkbox"/>	2224	694.8886	1387.7627	1387.7558	4.93	0	(89)	2.6e-007	1	K_GILAADESTGSIAK.R + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	2244	698.9139	1395.8132	1395.8061	5.12	0	93	1.1e-007	1	K_GILAADESTGSIAK.R + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2646	761.8896	1521.7646	1521.7572	4.85	0	61	0.00011	1	R_LQSIGTENTEENR.R + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2698	515.6281	1543.8625	1543.8569	3.61	1	(54)	0.00088	1	K_GILAADESTGSIAKR.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	2716	518.3116	1551.9131	1551.9072	3.82	1	68	2.9e-005	1	K_GILAADESTGSIAKR.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2990	558.9529	1673.8367	1673.8332	2.08	1	(38)	0.026	1	R_LQSIGTENTEENRR.F + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3006	560.2955	1677.8646	1677.8584	3.71	1	44	0.0086	1	R_LQSIGTENTEENRR.F + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3343	458.4922	1829.9398	1829.9343	2.96	2	31	0.17	1	K_RLQSIGTENTEENRR.F + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3641	661.3928	1981.1567	1981.1459	5.46	1	(46)	0.004	1	R_IVAPGKGILAADESTGSIAK.R + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3642	661.3929	1981.1570	1981.1459	5.60	1	(65)	4.7e-005	1	R_IVAPGKGILAADESTGSIAK.R + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3669	665.4179	1993.2317	1993.2213	5.25	1	74	2e-006	1	R_IVAPGKGILAADESTGSIAK.R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3670	665.4179	1993.2319	1993.2213	5.34	1	(61)	4e-005	1	R_IVAPGKGILAADESTGSIAK.R + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3942	535.3213	2137.2563	2137.2470	4.34	2	(43)	0.0051	1	R_IVAPGKGILAADESTGSIAKR.L + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3948	538.3400	2149.3307	2149.3224	3.89	2	53	0.00016	1	R_IVAPGKGILAADESTGSIAKR.L + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3949	538.3400	2149.3310	2149.3224	4.02	2	(40)	0.0038	1	R_IVAPGKGILAADESTGSIAKR.L + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00856247](#) Mass: 20937 Score: 470 Queries matched: 15

Tax_Id=10090 Gene_Symbol=Aldoa 21 kDa protein

[IPI00856379](#) Mass: 45548 Score: 470 Queries matched: 15

Tax_Id=10090 Gene_Symbol=Aldoa Fructose-bisphosphate aldolase

[IPI00856415](#) Mass: 14225 Score: 470 Queries matched: 15

Tax_Id=10090 Gene_Symbol=Aldoa 14 kDa protein

[IPI00858310](#) Mass: 26123 Score: 470 Queries matched: 15

Tax_Id=10090 Gene_Symbol=Aldoa 26 kDa protein

[IPI00133580](#) Mass: 39802 Score: 470 Queries matched: 15

Tax_Id=10090 Gene_Symbol=- Fructose-bisphosphate aldolase

17. [IPI00330804](#) Mass: 85134 Score: 431 Queries matched: 15 emPAI: 0.56

Tax_Id=10090 Gene_Symbol=Hsp90aa1 Heat shock protein HSP 90-alpha

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 626	406.2921	810.5696	810.5666	3.60	0	26	0.051	1	K_TLVSVTK.E + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 668	422.2776	842.5407	842.5378	3.48	0	(37)	0.032	1	R_ALLFVPR.R + Dimethyl (N-term)
<input checked="" type="checkbox"/> 670	424.2906	846.5667	846.5629	4.50	0	52	0.00092	1	R_ALLFVPR.R + Dimethyl:2H(4) (N-term)
1956	649.8915	1297.7685	1297.7605	6.17	0	(60)	0.00019	1	K_ADLINNLGTTIAK.S + Dimethyl (K); Dimethyl (N-term)
1988	653.9164	1305.8183	1305.8107	5.81	0	69	1.4e-005	1	K_ADLINNLGTTIAK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
2276	703.4070	1404.7995	1404.7898	6.92	0	(62)	0.00014	1	R_TLTIVDTGIGMTK.A + Dimethyl (K); Dimethyl (N-term)
2295	707.4320	1412.8495	1412.8400	6.67	0	(46)	0.0039	1	R_TLTIVDTGIGMTK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
2318	474.6043	1420.7910	1420.7847	4.42	0	(44)	0.0086	1	R_TLTIVDTGIGMTK.A + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
2319	711.4047	1420.7949	1420.7847	7.15	0	68	3.6e-005	1	R_TLTIVDTGIGMTK.A + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
2353	477.2876	1428.8411	1428.8350	4.26	0	(44)	0.0079	1	R_TLTIVDTGIGMTK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
2355	715.4290	1428.8434	1428.8350	5.87	0	(52)	0.0012	1	R_TLTIVDTGIGMTK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
2692	771.4176	1540.8207	1540.8097	7.17	0	(104)	8.9e-009	1	R_GVVVSEDLPLNISR.E + Dimethyl (N-term)
2699	773.4298	1544.8451	1544.8348	6.65	0	113	1.1e-009	1	R_GVVVSEDLPLNISR.E + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3291	605.6665	1813.9777	1813.9686	5.02	0	(36)	0.06	1	K_HLEINPDHSIETLR.Q + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3304	607.0096	1818.0069	1817.9937	7.25	0	37	0.047	1	K_HLEINPDHSIETLR.Q + Dimethyl:2H(4) (N-term)

18. [IPI00135635](#) Mass: 47145 Score: 425 Queries matched: 19 emPAI: 0.61

Tax_Id=10090 Gene_Symbol=Serpina3m Serine protease inhibitor A3M precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
1060	339.2324	1014.6753	1014.6723	2.91	1	25	0.21	1	R_SVKVPMK.M + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
2949	553.2935	1656.8587	1656.8505	4.98	0	(27)	0.37	1	R_MQQVEASLQPETLR.K + Dimethyl (N-term)
2950	553.2939	1656.8597	1656.8505	5.58	0	(35)	0.055	1	R_MQQVEASLQPETLR.K + Dimethyl (N-term)
2951	829.4385	1656.8624	1656.8505	7.20	0	80	2.1e-006	1	R_MQQVEASLQPETLR.K + Dimethyl (N-term)
2969	831.4504	1660.8862	1660.8756	6.39	0	(70)	2e-005	1	R_MQQVEASLQPETLR.K + Dimethyl:2H(4) (N-term)
3003	839.4479	1676.8813	1676.8705	6.45	0	(53)	0.0012	1	R_MQQVEASLQPETLR.K + Dimethyl:2H(4) (N-term); Oxidation (M)
3289	605.3359	1812.9858	1812.9767	5.00	1	(51)	0.0017	1	R_MQQVEASLQPETLRK.W + Dimethyl (K); Dimethyl (N-term)
3290	605.3363	1812.9871	1812.9767	5.71	1	(60)	0.00023	1	R_MQQVEASLQPETLRK.W + Dimethyl (K); Dimethyl (N-term)
3318	608.0194	1821.0364	1821.0270	5.18	1	(49)	0.0024	1	R_MQQVEASLQPETLRK.W + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
3319	608.0195	1821.0366	1821.0270	5.28	1	68	3.2e-005	1	R_MQQVEASLQPETLRK.W + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
4003	731.0383	2190.0932	2190.1146	-9.81	0	(35)	0.047	1	R_ALYQTEAFTADFQKPTEAK.N + Dimethyl:2H(4) (N-term)
4046	739.0402	2214.0987	2214.1208	-9.98	0	67	3.3e-005	1	R_ALYQTEAFTADFQKPTEAK.N + Dimethyl (K); Dimethyl (N-term)
4047	739.0405	2214.0996	2214.1208	-9.60	0	(62)	0.0001	1	R_ALYQTEAFTADFQKPTEAK.N + Dimethyl (K); Dimethyl (N-term)
4048	739.0406	2214.1001	2214.1208	-9.35	0	(58)	0.00029	1	R_ALYQTEAFTADFQKPTEAK.N + Dimethyl (K); Dimethyl (N-term)
4049	739.0408	2214.1007	2214.1208	-9.08	0	(56)	0.00046	2	R_ALYQTEAFTADFQKPTEAK.N + Dimethyl (K); Dimethyl (N-term)
4074	741.7238	2222.1496	2222.1711	-9.65	0	(51)	0.0019	1	R_ALYQTEAFTADFQKPTEAK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
4075	741.7238	2222.1497	2222.1711	-9.60	0	(34)	0.086	1	R_ALYQTEAFTADFQKPTEAK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
4076	741.7238	2222.1497	2222.1711	-9.60	0	(42)	0.012	1	R_ALYQTEAFTADFQKPTEAK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
4077	741.7239	2222.1498	2222.1711	-9.56	0	(54)	0.00091	1	R_ALYQTEAFTADFQKPTEAK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

19. [IPI00317309](#) Mass: 35787 Score: 423 Queries matched: 24 emPAI: 3.98

Tax_Id=10090 Gene_Symbol=Anxa5 Annexin A5

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1089	515.3201	1028.6257	1028.6230	2.67	0	(57)	0.00034	1	K_VLTEIIASR.T + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1108	517.3333	1032.6521	1032.6481	3.86	0	61	0.00012	1	K_VLTEIIASR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1133	522.3046	1042.5947	1042.5910	3.58	0	48	0.003	1	R_TPEELSAIK.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1160	524.7895	1047.5644	1047.5600	4.19	0	(44)	0.0068	1	R_QEIAQEFK.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1168	526.3298	1050.6451	1050.6412	3.70	0	(33)	0.073	1	R_TPEELSAIK.Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1196	528.8145	1055.6144	1055.6103	3.88	0	48	0.0028	1	R_QEIAQEFK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1221	535.7936	1069.5726	1069.5695	2.88	0	(41)	0.01	1	R_LYDAYELK.H + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1232	539.8188	1077.6230	1077.6198	3.04	0	45	0.0067	1	R_LYDAYELK.H + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1375	567.8146	1133.6147	1133.6080	5.89	0	(44)	0.0079	1	R_SEIDLFNIR.K + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1385	569.8271	1137.6397	1137.6332	5.78	0	55	0.0006	1	R_SEIDLFNIR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1620	403.9283	1208.7632	1208.7588	3.60	0	(31)	0.077	1	K_LIVAMMKPSR.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1656	406.5764	1216.7075	1216.7035	3.27	0	33	0.09	1	K_LIVAMMKPSR.L + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 1950	648.8188	1295.6231	1295.6147	6.55	0	46	0.0017	1	R_GTVTDFPGFDGR.A + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1962	650.8308	1299.6471	1299.6398	5.61	0	(45)	0.0027	1	R_GTVTDFPGFDGR.A + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2117	673.8597	1345.7049	1345.6951	7.27	0	38	0.028	1	K_NFATSLYSMIK.G + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2806	535.6202	1603.8387	1603.8318	4.32	1	(35)	0.059	1	R_SNAQRQEIAQEFK.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2815	538.3035	1611.8886	1611.8820	4.08	1	37	0.045	1	R_SNAQRQEIAQEFK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3036	564.6571	1690.9495	1690.9403	5.42	1	62	0.00015	1	K_GAGTDEKVLTEIIASR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3095	572.6600	1714.9583	1714.9465	6.87	1	(52)	0.0013	1	K_GAGTDEKVLTEIIASR.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3133	868.4786	1734.9427	1734.9301	7.25	0	105	7.8e-009	1	K_GLGTDEDSILNLLTSR.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3830	684.3492	2050.0257	2050.0120	6.70	1	35	0.06	1	R_GTVTDFPGFDGRADAEVLR.K + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3840	685.6910	2054.0513	2054.0371	6.90	1	(34)	0.083	1	R_GTVTDFPGFDGRADAEVLR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3920	705.3974	2113.1704	2113.1540	7.74	1	49	0.0024	1	K_AMKGLGTDEDSILNLLTSR.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 3921	705.3975	2113.1707	2113.1540	7.90	1	(40)	0.022	1	K_AMKGLGTDEDSILNLLTSR.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)

20. [IPI00387422](#) Mass: 61818 Score: 412 Queries matched: 15 emPAI: 0.44

Tax_Id=10090 Gene_Symbol=Zyx zyxin

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 544	393.2509	784.4873	784.4847	3.29	0	25	0.43	1	K_FAPVAPK.F + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 667	421.2868	840.5590	840.5561	3.47	0	26	0.23	1	K_FTPVVSQK.F + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1668	610.3585	1218.7024	1218.6972	4.23	0	(66)	5.1e-005	1	R_GPLSQAPTPAPK.F + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1669	610.3587	1218.7029	1218.6972	4.64	0	72	1.4e-005	1	R_GPLSQAPTPAPK.F + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1733	614.3836	1226.7527	1226.7474	4.26	0	(61)	0.00013	1	R_GPLSQAPTPAPK.F + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1734	614.3837	1226.7529	1226.7474	4.45	0	(52)	0.00098	1	R_GPLSQAPTPAPK.F + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1735	614.3840	1226.7535	1226.7474	4.95	0	(71)	1.1e-005	1	R_GPLSQAPTPAPK.F + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2838	541.2846	1620.8320	1620.8260	3.70	0	(29)	0.26	1	K_FSPGAPSGPGPQPNQK.M + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2859	543.9680	1628.8820	1628.8762	3.57	0	49	0.0027	1	K_FSPGAPSGPGPQPNQK.M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3197	589.6412	1765.9017	1765.8972	2.54	0	77	4.7e-006	1	K_QHPQPPPAQNQNQVR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3198	589.6415	1765.9027	1765.8972	3.13	0	(71)	1.5e-005	1	K_QHPQPPPAQNQNQVR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3199	589.6416	1765.9030	1765.8972	3.27	0	(71)	1.6e-005	1	K_QHPQPPPAQNQNQVR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3208	590.9833	1769.9282	1769.9223	3.31	0	(62)	0.00016	1	K_QHPQPPPAQNQNQVR.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3209	590.9835	1769.9287	1769.9223	3.62	0	(56)	0.00054	1	K_QHPQPPPAQNQNQVR.S + Dimethyl:2H(4) (N-term)

[3659](#) 665.0168 1992.0287 1992.0177 5.53 0 29 0.28 1 [K_VNPFRRPGDSEPPVAAGAQR.A](#) + Dimethyl (N-term)

Proteins matching the same set of peptides:

[IPI00408218](#) Mass: 58244 Score: 412 Queries matched: 15

Tax_Id=10090 Gene_Symbol=Zyx Zyx protein

21. [IPI00553333](#) Mass: 15944 Score: 400 Queries matched: 20 emPAI: 4.23

Tax_Id=10090 Gene_Symbol=Hbb-b1 Hemoglobin subunit beta-1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1971	651.8856	1301.7567	1301.7496	5.48	0	43	0.0096	1	R_LLTVYPWTQR.Y + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1972	651.8861	1301.7577	1301.7496	6.25	0	(36)	0.047	1	R_LLTVYPWTQR.Y + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1973	651.8861	1301.7577	1301.7496	6.25	0	(36)	0.046	1	R_LLTVYPWTQR.Y + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1985	653.8981	1305.7817	1305.7747	5.37	0	(39)	0.024	1	R_LLTVYPWTQR.Y + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1986	653.8984	1305.7823	1305.7747	5.84	0	(28)	0.27	1	R_LLTVYPWTQR.Y + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1987	653.8986	1305.7827	1305.7747	6.11	0	(36)	0.045	1	R_LLTVYPWTQR.Y + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2057	665.8366	1329.6587	1329.6525	4.72	0	(62)	5.8e-005	1	K_VNSDEVGGEALGR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2074	667.8491	1333.6837	1333.6776	4.62	0	78	2.2e-006	1	K_VNSDEVGGEALGR.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2552	498.2946	1491.8618	1491.8562	3.79	1	51	0.0017	1	K_VVAGVATALAHKYH.- + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2579	500.9779	1499.9120	1499.9064	3.71	1	(48)	0.0019	1	K_VVAGVATALAHKYH.- + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3773	676.9939	2027.9599	2027.9448	7.42	0	(29)	0.11	1	R_YFDSFGDLSSASAIMGNAK.V + Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 3787	679.6638	2035.9696	2035.9561	6.66	0	(46)	0.0027	1	R_YFDSFGDLSSASAIMGNAK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3788	679.6641	2035.9704	2035.9561	7.01	0	(53)	0.00047	1	R_YFDSFGDLSSASAIMGNAK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3789	679.6642	2035.9707	2035.9561	7.20	0	(42)	0.0066	1	R_YFDSFGDLSSASAIMGNAK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3812	682.3468	2044.0186	2044.0063	6.00	0	57	0.00037	1	R_YFDSFGDLSSASAIMGNAK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3813	682.3469	2044.0187	2044.0063	6.08	0	(40)	0.016	1	R_YFDSFGDLSSASAIMGNAK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3814	682.3478	2044.0215	2044.0063	7.44	0	(36)	0.041	1	R_YFDSFGDLSSASAIMGNAK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3833	684.9961	2051.9665	2051.9510	7.54	0	(53)	0.00049	1	R_YFDSFGDLSSASAIMGNAK.V + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 3834	684.9962	2051.9667	2051.9510	7.67	0	(45)	0.0034	1	R_YFDSFGDLSSASAIMGNAK.V + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 3853	687.6793	2060.0161	2060.0012	7.24	0	(47)	0.0034	1	R_YFDSFGDLSSASAIMGNAK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)

22. [IPI00113223](#) Mass: 274994 Score: 394 Queries matched: 29 emPAI: 0.19

Tax_Id=10090 Gene_Symbol=Fasn Fatty acid synthase

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 915	487.2895	972.5645	972.5604	4.27	0	(55)	0.00051	1	K_TGTVALEVR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/> 926	489.3022	976.5899	976.5855	4.47	0	56	0.00055	1	K_TGTVALEVR.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1239	542.3448	1082.6750	1082.6699	4.71	0	36	0.032	1	R_QAPLLIGSTK.S + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1270	549.3005	1096.5864	1096.5815	4.50	0	30	0.14	1	K_YNGTGLNDR.A + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1739	410.2195	1227.6368	1227.6332	2.94	0	36	0.033	1	K_QAHTMDPQLR.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2058	665.8706	1329.7267	1329.7190	5.78	0	37	0.039	1	K_VGDPQELNGITR.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2235	464.6031	1390.7876	1390.7820	4.05	1	(29)	0.26	1	R_LTQGEVYKELR.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2252	467.2866	1398.8379	1398.8322	4.09	1	48	0.0024	1	R_LTQGEVYKELR.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

<input checked="" type="checkbox"/>	2568	750.4116	1498.8087	1498.7991	6.42	0	115	6.7e-010	1	R_TLEAVQDLLEQGR.Q + Dimethyl (N-term)
<input checked="" type="checkbox"/>	2588	752.4241	1502.8337	1502.8242	6.32	0	(98)	3.2e-008	1	R_TLEAVQDLLEQGR.Q + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2893	410.2212	1636.8558	1636.8533	1.52	1	28	0.35	1	K_AVAHGGDTRDLVK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3156	582.3013	1743.8820	1743.8726	5.37	0	31	0.15	1	K_AAMLGQEDPPQHGLPR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3646	663.3498	1987.0277	1987.0163	5.75	0	51	0.0021	1	R_WLSTSIPEAQWQSSLAR.T + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3654	664.6915	1991.0527	1991.0414	5.68	0	(42)	0.015	1	R_WLSTSIPEAQWQSSLAR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3655	664.6916	1991.0531	1991.0414	5.88	0	(43)	0.014	1	R_WLSTSIPEAQWQSSLAR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3671	665.6720	1993.9942	1993.9878	3.21	1	45	0.0053	1	K_LQEMSSKTDSDTDTTAPK.S + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3710	671.0038	2009.9897	2009.9827	3.49	1	(33)	0.074	1	K_LQEMSSKTDSDTDTTAPK.S + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3761	675.0285	2022.0637	2022.0580	2.82	1	(44)	0.0095	1	K_LQEMSSKTDSDTDTTAPK.S + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3762	675.0286	2022.0640	2022.0580	2.97	1	(35)	0.085	1	K_LQEMSSKTDSDTDTTAPK.S + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3810	409.6312	2043.1197	2043.1126	3.49	0	50	0.0025	1	R_QAPAPTAHAALPHLLHASGR.T + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3811	409.6312	2043.1197	2043.1126	3.50	0	(30)	0.22	1	R_QAPAPTAHAALPHLLHASGR.T + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3818	410.4362	2047.1446	2047.1377	3.34	0	(32)	0.15	1	R_QAPAPTAHAALPHLLHASGR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3950	538.5377	2150.1217	2150.1140	3.58	2	(33)	0.11	1	R_KLQEMSSKTDSDTDTTAPK.S + 3 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3951	538.5377	2150.1218	2150.1140	3.61	2	(34)	0.091	1	R_KLQEMSSKTDSDTDTTAPK.S + 3 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3976	542.5362	2166.1157	2166.1089	3.13	2	(30)	0.21	1	R_KLQEMSSKTDSDTDTTAPK.S + 3 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3977	542.5363	2166.1162	2166.1089	3.33	2	(27)	0.45	1	R_KLQEMSSKTDSDTDTTAPK.S + 3 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3978	542.5626	2166.2214	2166.2145	3.19	2	(30)	0.19	1	R_KLQEMSSKTDSDTDTTAPK.S + 3 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3979	542.5627	2166.2217	2166.2145	3.34	2	40	0.018	1	R_KLQEMSSKTDSDTDTTAPK.S + 3 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4001	546.5617	2182.2177	2182.2094	3.81	2	(26)	0.55	1	R_KLQEMSSKTDSDTDTTAPK.S + 3 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)

23. [IPI00221528](#) Mass: 42319 Score: 390 Queries matched: 29 emPAI: 1.29

Tax_Id=10090 Gene_Symbol=4732495G21Rik 10 days neonate skin cDNA, RIKEN full-length enriched library, clone:4732493G14 product:ACTIN, CYTOPLASMIC TYPE 5 homolog

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
435	350.7531	699.4916	699.4894	3.02	0	(33)	0.032	1	R_GILTLK.Y + Dimethyl (K); Dimethyl (N-term)
442	354.7782	707.5418	707.5397	3.07	0	(33)	0.029	1	R_GILTLK.Y + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
443	354.7784	707.5423	707.5397	3.76	0	42	0.0033	1	R_GILTLK.Y + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
642	412.2567	822.4988	822.4963	3.05	0	36	0.031	1	K_IIAPPER.K + Dimethyl (N-term)
1187	527.7816	1053.5486	1053.5416	6.59	0	46	0.003	1	R_DLTDYLMK.I + Dimethyl (K); Dimethyl (N-term)
1212	531.8063	1061.5981	1061.5918	5.91	0	(43)	0.0091	1	R_DLTDYLMK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
1722	409.8839	1226.6297	1226.6264	2.72	0	(43)	0.0054	1	R_HQGVVMVGMGQK.D + Dimethyl (K); Dimethyl (N-term)
1723	409.8839	1226.6299	1226.6264	2.86	0	(31)	0.099	1	R_HQGVVMVGMGQK.D + Dimethyl (K); Dimethyl (N-term)
1724	614.3229	1226.6313	1226.6264	4.02	0	48	0.0019	1	R_HQGVVMVGMGQK.D + Dimethyl (K); Dimethyl (N-term)
1790	412.5673	1234.6801	1234.6766	2.84	0	(38)	0.038	1	R_HQGVVMVGMGQK.D + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
1791	412.5673	1234.6802	1234.6766	2.92	0	(36)	0.048	1	R_HQGVVMVGMGQK.D + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
1792	618.3480	1234.6814	1234.6766	3.85	0	(39)	0.025	1	R_HQGVVMVGMGQK.D + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
2873	544.9758	1631.9057	1631.8990	4.08	1	27	0.48	2	R_MQKEIVTLAPSTMK.I + Dimethyl (K); Dimethyl (N-term)
3301	606.9832	1817.9277	1817.9159	6.49	0	(46)	0.0048	1	R_SYELPDGQVITIGNER.F + Dimethyl (N-term)
3302	909.9726	1817.9307	1817.9159	8.14	0	(90)	2e-007	1	R_SYELPDGQVITIGNER.F + Dimethyl (N-term)
3303	909.9731	1817.9317	1817.9159	8.69	0	(79)	2.5e-006	1	R_SYELPDGQVITIGNER.F + Dimethyl (N-term)
3323	608.3251	1821.9536	1821.9410	6.88	0	(30)	0.23	1	R_SYELPDGQVITIGNER.F + Dimethyl:2H(4) (N-term)
3324	911.9853	1821.9560	1821.9410	8.22	0	92	1.6e-007	1	R_SYELPDGQVITIGNER.F + Dimethyl:2H(4) (N-term)
3325	911.9858	1821.9570	1821.9410	8.76	0	(87)	5e-007	1	R_SYELPDGQVITIGNER.F + Dimethyl:2H(4) (N-term)
3705	670.7178	2009.1315	2009.1197	5.87	0	(29)	0.24	2	R_VAPDEHPILLTEAPLNP.K.I + Dimethyl (K); Dimethyl (N-term)

3706	670.7178	2009.1315	2009.1197	5.87	0	(27)	0.41	2	R_VAPDEHPILLTEAPLNPK.I + Dimethyl (K); Dimethyl (N-term)
3707	670.7179	2009.1317	2009.1197	5.99	0	(26)	0.47	2	R_VAPDEHPILLTEAPLNPK.I + Dimethyl (K); Dimethyl (N-term)
3708	670.7179	2009.1317	2009.1197	5.99	0	(32)	0.12	2	R_VAPDEHPILLTEAPLNPK.I + Dimethyl (K); Dimethyl (N-term)
3709	670.7180	2009.1322	2009.1197	6.24	0	(28)	0.27	2	R_VAPDEHPILLTEAPLNPK.I + Dimethyl (K); Dimethyl (N-term)
3742	673.3995	2017.1767	2017.1699	3.37	0	(28)	0.2	2	R_VAPDEHPILLTEAPLNPK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
3746	673.4012	2017.1817	2017.1699	5.85	0	(29)	0.14	2	R_VAPDEHPILLTEAPLNPK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
3747	673.4013	2017.1821	2017.1699	6.03	0	(33)	0.065	2	R_VAPDEHPILLTEAPLNPK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
3748	673.4015	2017.1827	2017.1699	6.35	0	(34)	0.044	2	R_VAPDEHPILLTEAPLNPK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
3749	673.4017	2017.1832	2017.1699	6.57	0	37	0.026	2	R_VAPDEHPILLTEAPLNPK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

24. [IPI00123924](#) Mass: 46140 Score: 378 Queries matched: 18 emPAI: 0.92

Tax_Id=10090 Gene_Symbol=Serpinald Alpha-1-antitrypsin 1-4 precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1064	510.2946	1018.5746	1018.5699	4.58	0	38	0.028	1	K_VINDFVEK.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1331	558.8291	1115.6437	1115.6373	5.80	0	44	0.0083	1	K_TLMSPLGITR.I + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1345	560.8419	1119.6692	1119.6624	6.07	0	(39)	0.025	1	K_TLMSPLGITR.I + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1368	566.8261	1131.6377	1131.6322	4.90	0	(37)	0.043	1	K_TLMSPLGITR.I + Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 1379	568.8386	1135.6626	1135.6573	4.65	0	(40)	0.018	1	K_TLMSPLGITR.I + Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 1452	582.8376	1163.6606	1163.6550	4.84	0	34	0.074	1	R_LSIGNYNLK.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1479	586.8631	1171.7116	1171.7052	5.49	0	(26)	0.38	1	R_LSIGNYNLK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2635	506.9575	1517.8507	1517.8453	3.55	1	36	0.058	1	K_VINDFVEKGTQGK.I + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2661	510.9827	1529.9264	1529.9207	3.70	1	(25)	0.41	1	K_VINDFVEKGTQGK.I + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2992	558.9998	1673.9774	1673.9716	3.49	2	(33)	0.093	1	K_KVINDFVEKGTQGK.I + 3 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3035	564.3665	1690.0777	1690.0721	3.36	2	34	0.017	1	K_KVINDFVEKGTQGK.I + 3 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3849	687.0324	2058.0754	2058.0633	5.88	0	(46)	0.0057	1	R_IFNNGADLSGITEENAPLK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3850	687.0330	2058.0772	2058.0633	6.77	0	62	0.00017	1	R_IFNNGADLSGITEENAPLK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4234	799.1212	2394.3417	2394.3246	7.16	1	(82)	1.2e-006	1	R_IFNNGADLSGITEENAPLKLSK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4235	799.1212	2394.3418	2394.3246	7.20	1	93	8.3e-008	1	R_IFNNGADLSGITEENAPLKLSK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4258	805.7818	2414.3236	2414.3056	7.43	1	(86)	4.6e-007	1	R_IFNNGADLSGITEENAPLKLSK.A + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4537	713.3945	2849.5487	2849.5650	-5.72	2	63	7.9e-005	1	R_IFNNGADLSGITEENAPLKLSKAVHK.A + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4538	713.3948	2849.5500	2849.5650	-5.28	2	(53)	0.00078	1	R_IFNNGADLSGITEENAPLKLSKAVHK.A + 2 Dimethyl (K); Dimethyl (N-term)

25. [IPI00469114](#) Mass: 15133 Score: 355 Queries matched: 14 emPAI: 2.04

Tax_Id=10090 Gene_Symbol=Hba-al;Hba-a2 Hemoglobin subunit alpha

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1244	543.2910	1084.5675	1084.5627	4.40	0	(37)	0.019	1	R_MFASFPTTK.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1245	543.2912	1084.5678	1084.5627	4.74	0	56	0.00023	1	R_MFASFPTTK.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1259	547.3163	1092.6181	1092.6129	4.76	0	(40)	0.016	1	R_MFASFPTTK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1260	547.3163	1092.6181	1092.6129	4.76	0	(53)	0.00088	1	R_MFASFPTTK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1934	429.2765	1284.8078	1284.8042	2.80	1	32	0.069	1	M_VLSGEDKSNIK.A + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2721	519.9285	1556.7637	1556.7583	3.49	0	(78)	1.6e-006	1	K_IGGHGAEYGAEALER.M + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2722	519.9289	1556.7647	1556.7583	4.13	0	(70)	1.2e-005	1	K_IGGHGAEYGAEALER.M + Dimethyl (N-term)

Proteins matching the same set of peptides:

[IPI00648173](#) Mass: 193631 Score: 308 Queries matched: 9

Tax_Id=10090 Gene_Symbol=Cltc Clathrin, heavy polypeptide

28. [IPI00131138](#) Mass: 283869 Score: 297 Queries matched: 18 emPAI: 0.13

Tax_Id=10090 Gene_Symbol=Flna Isoform 1 of Filamin-A

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 837	469.8072	937.5998	937.5960	3.97	0	35	0.036	1	K ₂ AGVAPLQVK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 853	473.8323	945.6501	945.6463	4.01	0	(28)	0.12	1	K ₂ AGVAPLQVK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1359	564.3087	1126.6029	1126.5982	4.14	0	30	0.12	1	K ₂ GTVEPQLLEAR.G + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1453	388.8970	1163.6691	1163.6663	2.43	0	56	0.00045	1	R ₂ ALTQTGGPHVK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1480	391.5804	1171.7193	1171.7165	2.41	0	(54)	0.00062	1	R ₂ ALTQTGGPHVK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1952	648.8732	1295.7319	1295.7238	6.28	0	45	0.0062	1	R ₂ AWGPGLEGGIVGK.S + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1979	652.8981	1303.7817	1303.7740	5.91	0	(38)	0.031	1	R ₂ AWGPGLEGGIVGK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2233	348.4603	1389.8120	1389.8092	1.97	1	33	0.097	1	R ₂ VNVGAGSHPNKVK.V + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2260	351.4792	1401.8875	1401.8846	2.11	1	(27)	0.16	1	R ₂ VNVGAGSHPNKVK.V + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2526	742.8882	1483.7618	1483.7532	5.82	0	77	3.3e-006	1	K ₂ AFGPGQLQGGNAGSPAR.F + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2547	745.9008	1489.7871	1489.7776	6.33	0	58	0.0003	1	R ₂ ANLPQSFQVDTSK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2567	749.9263	1497.8381	1497.8279	6.82	0	(34)	0.085	1	R ₂ ANLPQSFQVDTSK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3422	619.6769	1856.0090	1856.0004	4.66	1	39	0.028	1	K ₂ VAQPSITDNKDGTVTVR.Y + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3433	622.3604	1864.0594	1864.0506	4.73	1	(29)	0.23	1	K ₂ VAQPSITDNKDGTVTVR.Y + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3450	625.6731	1873.9975	1873.9898	4.09	0	(36)	0.058	1	K ₂ VATVPQHATSGPGPADVSK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3489	628.3569	1882.0487	1882.0400	4.62	0	45	0.0079	1	K ₂ VATVPQHATSGPGPADVSK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4133	758.4082	2272.2027	2272.1902	5.50	1	(42)	0.015	1	R ₂ AGGPGLERAAGVPAEFGIWTR.E + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4134	758.4083	2272.2031	2272.1902	5.69	1	46	0.006	1	R ₂ AGGPGLERAAGVPAEFGIWTR.E + Dimethyl:2H(4) (N-term)

29. [IPI00380873](#) Mass: 46510 Score: 288 Queries matched: 21 emPAI: 1.25

Tax_Id=10090 Gene_Symbol=Sec14l3 Novel protein, ortholog of human and rat SEC14-like 3 (S. cerevisiae) SEC14L3

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 636	410.7331	819.4516	819.4490	3.10	0	(32)	0.071	1	R ₂ NFDLQK.S + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 649	414.7581	827.5017	827.4993	2.92	0	35	0.041	1	R ₂ NFDLQK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 801	460.7967	919.5788	919.5742	4.99	0	(33)	0.073	1	K ₂ GLLFSVTK.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 814	464.8217	927.6289	927.6245	4.81	0	33	0.03	1	K ₂ GLLFSVTK.Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1150	523.7999	1045.5852	1045.5808	4.22	0	(32)	0.12	1	K ₂ INYGGEIPK.S + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1151	523.8000	1045.5855	1045.5808	4.57	0	50	0.0018	1	K ₂ INYGGEIPK.S + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1188	527.8248	1053.6351	1053.6310	3.90	0	(29)	0.21	1	K ₂ INYGGEIPK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1189	527.8253	1053.6360	1053.6310	4.71	0	(49)	0.0022	1	K ₂ INYGGEIPK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2182	459.2382	1374.6927	1374.6892	2.59	0	(32)	0.083	1	K ₂ TQYEHSVQISR.G + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2197	460.5800	1378.7181	1378.7143	2.80	0	35	0.056	1	K ₂ TQYEHSVQISR.G + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2701	515.9947	1544.9622	1544.9541	5.24	1	37	0.017	1	K ₂ GLLFSVTKQDLK.T + 2 Dimethyl (K); Dimethyl (N-term)

<input checked="" type="checkbox"/>	2726	520.0200	1557.0380	1557.0295	5.49	1	(34)	0.0053	1	K_GLLFSVTKQDLLK.T + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2917	549.9648	1646.8727	1646.8661	3.99	1	(63)	0.00011	1	R_QKAGEMVEVLTSQR.Y + Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	2937	552.6480	1654.9222	1654.9164	3.53	1	67	4.9e-005	1	R_QKAGEMVEVLTSQR.Y + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3110	576.3569	1726.0488	1726.0393	5.52	1	(34)	0.042	1	K_IVVLGNSWKEGLLK.L + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3111	576.3569	1726.0488	1726.0393	5.52	1	(33)	0.043	1	K_IVVLGNSWKEGLLK.L + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3143	580.3822	1738.1248	1738.1146	5.85	1	36	0.0047	1	K_IVVLGNSWKEGLLK.L + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4307	616.0740	2460.2670	2460.2536	5.44	0	(28)	0.34	1	K_LISPEELPAHFGGTLTDPDGNPK.C + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4308	821.0975	2460.2707	2460.2536	6.94	0	70	2.4e-005	1	K_LISPEELPAHFGGTLTDPDGNPK.C + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4309	821.0975	2460.2708	2460.2536	6.96	0	(57)	0.00044	1	K_LISPEELPAHFGGTLTDPDGNPK.C + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4326	823.7807	2468.3203	2468.3039	6.64	0	(51)	0.0021	1	K_LISPEELPAHFGGTLTDPDGNPK.C + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

30. [IPI00110753](#) Mass: 50788 Score: 282 Queries matched: 16 emPAI: 0.72

Tax_Id=10090 Gene_Symbol=Tubala Tubulin alpha-1A chain

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<input checked="" type="checkbox"/>	3114	577.3208	1728.9407	1728.9298	6.31	0	(53)	0.0013	1	R_AVFVDLEPTVIDEVR.T + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3115	865.4796	1728.9447	1728.9298	8.62	0	(75)	7.8e-006	1	R_AVFVDLEPTVIDEVR.T + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3126	578.6624	1732.9654	1732.9549	6.05	0	(34)	0.08	1	R_AVFVDLEPTVIDEVR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3128	867.4916	1732.9687	1732.9549	7.96	0	(81)	1.8e-006	1	R_AVFVDLEPTVIDEVR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3129	867.4918	1732.9690	1732.9549	8.10	0	87	4.6e-007	1	R_AVFVDLEPTVIDEVR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3285	605.0175	1812.0307	1812.0185	6.73	0	38	0.033	1	R_IHFPLATYAPVISAEK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3286	605.0176	1812.0311	1812.0185	6.93	0	(31)	0.16	1	R_IHFPLATYAPVISAEK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3317	607.7013	1820.0821	1820.0688	7.30	0	(33)	0.063	1	R_IHFPLATYAPVISAEK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4154	770.0832	2307.2277	2307.2111	7.21	1	43	0.013	1	R_AVFVDLEPTVIDEVRTGTYSR.Q + Dimethyl (N-term)
<input checked="" type="checkbox"/>	4155	770.0835	2307.2287	2307.2111	7.62	1	(31)	0.2	1	R_AVFVDLEPTVIDEVRTGTYSR.Q + Dimethyl (N-term)
<input checked="" type="checkbox"/>	4157	771.4249	2311.2530	2311.2362	7.25	1	(32)	0.14	1	R_AVFVDLEPTVIDEVRTGTYSR.Q + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4331	618.5760	2470.2749	2470.2604	5.84	1	(34)	0.082	1	R_QLFHPEQLITGKEDAANNYAR.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4332	618.5762	2470.2757	2470.2604	6.19	1	36	0.06	1	R_QLFHPEQLITGKEDAANNYAR.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	4339	620.5885	2478.3247	2478.3107	5.68	1	(35)	0.08	1	R_QLFHPEQLITGKEDAANNYAR.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4340	620.5886	2478.3254	2478.3107	5.94	1	(36)	0.066	1	R_QLFHPEQLITGKEDAANNYAR.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	4357	639.0688	2552.2463	2552.2296	6.54	1	34	0.063	1	K_TIGGGDDSFNTFFSETGAGKHVPR.A + Dimethyl (K); Dimethyl (N-term)

Proteins matching the same set of peptides:

[IPI00117348](#) Mass: 50804 Score: 282 Queries matched: 16

Tax_Id=10090 Gene_Symbol=Tubalb Tubulin alpha-1B chain

[IPI00403810](#) Mass: 50562 Score: 282 Queries matched: 16

Tax_Id=10090 Gene_Symbol=Tubalc Tubulin alpha-1C chain

31. [IPI00117352](#) Mass: 50095 Score: 267 Queries matched: 10 emPAI: 0.57

Tax_Id=10090 Gene_Symbol=Tubb5 Tubulin beta-5 chain

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
1218	534.3191	1066.6236	1066.6175	5.74	0	28	0.26	1	R_YLTVAAVFR.G + Dimethyl (N-term)

1466	586.3401	1170.6657	1170.6583	6.32	0	(40)	0.025	1	K_LAVNMVFPFR.L + Dimethyl (N-term)
1493	588.3533	1174.6921	1174.6834	7.38	0	57	0.00044	1	K_LAVNMVFPFR.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2901	548.6306	1642.8698	1642.8600	5.98	0	(46)	0.0061	1	R_AILVDLEPGTMSVR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2902	822.4436	1642.8727	1642.8600	7.74	0	94	1.1e-007	1	R_AILVDLEPGTMSVR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2918	824.4564	1646.8982	1646.8851	7.92	0	(70)	2.3e-005	1	R_AILVDLEPGTMSVR.S + Dimethyl:2H(4) (N-term)
2926	551.6392	1651.8958	1651.8847	6.75	0	47	0.0044	1	R_LHFFMPGFAPLTSR.G + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2960	830.4421	1658.8697	1658.8549	8.92	0	(83)	1.1e-006	1	R_AILVDLEPGTMSVR.S + Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2976	832.4550	1662.8954	1662.8800	9.22	0	(64)	8.9e-005	1	R_AILVDLEPGTMSVR.S + Dimethyl:2H(4) (N-term); Oxidation (M)
4269	609.3290	2433.2867	2433.2726	5.81	2	27	0.5	2	K_IREEYPRIMNTFSVVPSPK.V + Dimethyl (K); Dimethyl (N-term)

32. [IPI00624663](#) Mass: 168602 Score: 257 Queries matched: 10 emPAI: 0.16

Tax_Id=10090 Gene_Symbol=Pzpp Alpha-2-macroglobulin precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1044	505.2793	1008.5440	1008.5392	4.76	0	(45)	0.0045	1	K_ALSFYQPR.A + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1053	507.2919	1012.5693	1012.5644	4.89	0	47	0.0027	1	K_ALSFYQPR.A + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1138	522.8105	1043.6065	1043.6015	4.80	0	(49)	0.0025	1	K_TVSWAVTPK.S + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1177	526.8356	1051.6567	1051.6518	4.70	0	52	0.00081	1	K_TVSWAVTPK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1581	400.9178	1199.7315	1199.7278	3.12	1	49	0.0019	1	R_KTVSWAVTPK.S + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1641	404.9429	1211.8069	1211.8031	3.09	1	(28)	0.071	1	R_KTVSWAVTPK.S + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1880	633.8275	1265.6405	1265.6351	4.28	0	(61)	0.0001	1	R_DLSSSDLSTASK.I + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1904	637.8525	1273.6905	1273.6853	4.11	0	61	0.00014	1	R_DLSSSDLSTASK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2038	663.3686	1324.7227	1324.7139	6.66	0	(45)	0.0062	1	K_AINYLISGYQR.Q + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2055	665.3812	1328.7478	1328.7390	6.59	0	79	3e-006	1	K_AINYLISGYQR.Q + Dimethyl:2H(4) (N-term)

33. [IPI00622235](#) Mass: 89950 Score: 248 Queries matched: 13 emPAI: 0.40

Tax_Id=10090 Gene_Symbol=Vcp Transitional endoplasmic reticulum ATPase

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1287	552.2901	1102.5657	1102.5618	3.55	0	(53)	0.00053	1	K_LAGESESNLR.K + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1297	553.3131	1104.6117	1104.6067	4.53	0	46	0.0049	1	K_DVDLEFLAK.M + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1304	554.3029	1106.5912	1106.5869	3.83	0	63	8.5e-005	1	K_LAGESESNLR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1415	384.2462	1149.7166	1149.7121	3.93	0	43	0.0071	1	R_LEILQHTK.N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1658	406.8622	1217.5647	1217.5611	2.96	1	30	0.036	1	R_RDHFEEAMR.F + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1688	408.2038	1221.5897	1221.5862	2.86	1	(29)	0.088	1	R_RDHFEEAMR.F + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1864	420.5710	1258.6910	1258.6881	2.36	1	(42)	0.011	1	K_LAGESESNLRK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1885	423.2545	1266.7417	1266.7383	2.70	1	61	0.00016	1	K_LAGESESNLRK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2134	679.3691	1356.7237	1356.7150	6.45	0	67	3.3e-005	1	R_WALSQSNPSALR.E + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3026	562.6305	1684.8697	1684.8606	5.35	1	(47)	0.0038	1	R_KYEMFAQTLQQR.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3027	562.6305	1684.8697	1684.8606	5.39	1	54	0.00082	1	R_KYEMFAQTLQQR.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3048	565.3138	1692.9195	1692.9109	5.10	1	(39)	0.03	1	R_KYEMFAQTLQQR.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3222	593.7088	1778.1046	1778.0939	5.98	1	32	0.036	1	R_IVSQLLTLMDGLKQR.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00676914](#) Mass: 89423 Score: 248 Queries matched: 13
 Tax_Id=10090 Gene_Symbol=LOC675857 similar to valosin isoform 1

34. [IPI00230395](#) Mass: 38995 Score: 239 Queries matched: 11 emPAI: 0.78

Tax_Id=10090 Gene_Symbol=Anxa1 Annexin A1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 503	378.2745	754.5344	754.5316	3.68	0	(26)	0.18	1	K ₂ ALLLAK.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 512	382.2997	762.5848	762.5818	3.89	0	40	0.0015	1	K ₂ ALLLAK.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2757	525.9831	1574.9275	1574.9181	5.92	1	(60)	0.00018	1	K ₂ GVDEATIIDILTKR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2799	533.9851	1598.9335	1598.9243	5.75	1	(56)	0.00049	1	K ₂ GVDEATIIDILTKR.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2810	536.6685	1606.9835	1606.9745	5.61	1	65	3.3e-005	1	K ₂ GVDEATIIDILTKR.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3055	566.2870	1695.8393	1695.8315	4.58	1	66	3.4e-005	1	R ₂ DLAKDITSDTSGDFR.K + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3075	568.9707	1703.8903	1703.8818	4.99	1	(49)	0.0027	1	R ₂ DLAKDITSDTSGDFR.K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3224	594.3113	1779.9122	1779.9043	4.44	0	(48)	0.0028	1	R ₂ FLENQEQEYVQAVK.S + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3229	596.9949	1787.9627	1787.9545	4.59	0	51	0.0019	1	R ₂ FLENQEQEYVQAVK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3230	596.9950	1787.9632	1787.9545	4.83	0	(41)	0.019	1	R ₂ FLENQEQEYVQAVK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4527	705.3893	2817.5283	2817.5091	6.81	1	48	0.0029	1	K ₂ SYKGGPGSAVSPYPSFNVSSDVAALHK.A + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00652811](#) Mass: 40492 Score: 239 Queries matched: 11
 Tax_Id=10090 Gene_Symbol=Anxa1 16 days embryo head cDNA, RIKEN full-length enriched library, clone:C130041B04 product:annexin A1, full insert sequence

35. [IPI00139788](#) Mass: 78841 Score: 232 Queries matched: 12 emPAI: 0.29

Tax_Id=10090 Gene_Symbol=Trf Serotransferrin precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 938	490.2842	978.5538	978.5498	4.06	0	46	0.0045	1	K ₂ TVLPPDGPR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/> 944	327.8769	980.6088	980.6069	1.98	0	36	0.034	1	R ₂ IPSHAVVAR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 951	492.2967	982.5789	982.5750	4.01	0	(31)	0.097	1	K ₂ TVLPPDGPR.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1076	513.3072	1024.5998	1024.5957	4.02	0	(47)	0.0027	1	K ₂ GYAVAVVK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1077	513.3075	1024.6004	1024.5957	4.62	0	(56)	0.00042	1	K ₂ GYAVAVVK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1106	517.3326	1032.6506	1032.6459	4.52	0	65	5.2e-005	1	K ₂ GYAVAVVK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1107	517.3326	1032.6506	1032.6459	4.52	0	(53)	0.00091	1	K ₂ GYAVAVVK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2275	703.3747	1404.7348	1404.7249	7.09	0	55	0.00062	1	K ₂ ASDTSITWNNLK.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2416	483.2752	1446.8037	1446.7983	3.74	0	(29)	0.24	1	R ₂ LYLGHNYVTAIR.N + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2417	483.2755	1446.8047	1446.7983	4.43	0	(34)	0.08	1	R ₂ LYLGHNYVTAIR.N + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2437	484.6173	1450.8300	1450.8234	4.53	0	42	0.013	1	R ₂ LYLGHNYVTAIR.N + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2438	484.6173	1450.8302	1450.8234	4.66	0	(32)	0.13	1	R ₂ LYLGHNYVTAIR.N + Dimethyl:2H(4) (N-term)

36. [IPI00109073](#) Mass: 50010 Score: 220 Queries matched: 8 emPAI: 0.42

Tax_Id=10090 Gene_Symbol=Tubb4 Tubulin beta-4 chain

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
1218	534.3191	1066.6236	1066.6175	5.74	0	28	0.26	1	R_YLTVAAVFR.G + Dimethyl (N-term)
1466	586.3401	1170.6657	1170.6583	6.32	0	(40)	0.025	1	K_LAVNMVFPFR.L + Dimethyl (N-term)
1493	588.3533	1174.6921	1174.6834	7.38	0	57	0.00044	1	K_LAVNMVFPFR.L + Dimethyl:2H(4) (N-term)
2857	815.4356	1628.8567	1628.8444	7.59	0	(76)	5.2e-006	1	R_AVLVLDLEPGTMDSVR.S + Dimethyl (N-term)
2877	817.4486	1632.8827	1632.8695	8.08	0	(62)	0.00015	1	R_AVLVLDLEPGTMDSVR.S + Dimethyl:2H(4) (N-term)
2910	823.4321	1644.8497	1644.8393	6.34	0	96	4.7e-008	1	R_AVLVLDLEPGTMDSVR.S + Dimethyl (N-term); Oxidation (M)
2926	551.6392	1651.8958	1651.8847	6.75	0	47	0.0044	1	R_LHFFMPGFAPLTSR.G + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4269	609.3290	2433.2867	2433.2726	5.80	2	28	0.4	1	K_IREEFPDRIMNTFSVVPSPK.V + Dimethyl (K); Dimethyl (N-term); Oxidation (M)

37. [IPI00316491](#) Mass: 15982 Score: 215 Queries matched: 14 emPAI: 2.33

Tax_Id=10090 Gene_Symbol=Hbb-b2 Hemoglobin subunit beta-2

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
1971	651.8856	1301.7567	1301.7496	5.48	0	43	0.0096	1	R_LLTVYPWTQR.Y + Dimethyl (N-term)
1972	651.8861	1301.7577	1301.7496	6.25	0	(36)	0.047	1	R_LLTVYPWTQR.Y + Dimethyl (N-term)
1973	651.8861	1301.7577	1301.7496	6.25	0	(36)	0.046	1	R_LLTVYPWTQR.Y + Dimethyl (N-term)
1985	653.8981	1305.7817	1305.7747	5.37	0	(39)	0.024	1	R_LLTVYPWTQR.Y + Dimethyl:2H(4) (N-term)
1986	653.8984	1305.7823	1305.7747	5.84	0	(28)	0.27	1	R_LLTVYPWTQR.Y + Dimethyl:2H(4) (N-term)
1987	653.8986	1305.7827	1305.7747	6.11	0	(36)	0.045	1	R_LLTVYPWTQR.Y + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2098	670.8476	1339.6807	1339.6732	5.63	0	44	0.0049	1	K_VNPDEVGGEALGR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2108	672.8596	1343.7047	1343.6983	4.75	0	(41)	0.012	1	K_VNPDEVGGEALGR.L + Dimethyl:2H(4) (N-term)
2552	498.2946	1491.8618	1491.8562	3.79	1	51	0.0017	1	K_VVAGVATALAHKYH.- + Dimethyl (K); Dimethyl (N-term)
2579	500.9779	1499.9120	1499.9064	3.71	1	(48)	0.0019	1	K_VVAGVATALAHKYH.- + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3856	688.3359	2061.9857	2061.9717	6.79	0	42	0.0062	1	R_YFDSFGDLSSASAIMGNPK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3857	688.3359	2061.9860	2061.9717	6.91	0	(33)	0.055	1	R_YFDSFGDLSSASAIMGNPK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3870	691.0191	2070.0355	2070.0220	6.53	0	(35)	0.056	1	R_YFDSFGDLSSASAIMGNPK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3871	691.0192	2070.0357	2070.0220	6.65	0	(33)	0.098	1	R_YFDSFGDLSSASAIMGNPK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00828873](#) Mass: 15851 Score: 215 Queries matched: 14

Tax_Id=10090 Gene_Symbol=Hbb Beta-2-globin (Fragment)

38. [IPI00117857](#) Mass: 45966 Score: 205 Queries matched: 14 emPAI: 0.73

Tax_Id=10090 Gene_Symbol=Sp11-6 Alpha-1-antitrypsin 1-6 precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
1064	510.2946	1018.5746	1018.5699	4.58	0	38	0.028	1	K_VINDFVEK.G + Dimethyl (K); Dimethyl (N-term)
1331	558.8291	1115.6437	1115.6373	5.80	0	44	0.0083	1	K_TLMSPLGITR.I + Dimethyl (N-term)
1345	560.8419	1119.6692	1119.6624	6.07	0	(39)	0.025	1	K_TLMSPLGITR.I + Dimethyl:2H(4) (N-term)
1368	566.8261	1131.6377	1131.6322	4.90	0	(37)	0.043	1	K_TLMSPLGITR.I + Dimethyl (N-term); Oxidation (M)
1379	568.8386	1135.6626	1135.6573	4.65	0	(40)	0.018	1	K_TLMSPLGITR.I + Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 1547	594.3629	1186.7113	1186.7049	5.39	0	35	0.052	1	R_LSIGEYNLK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

2635	506.9575	1517.8507	1517.8453	3.55	1	36	0.058	1	K_VINDFVEKGTQGK.I + 2 Dimethyl (K); Dimethyl (N-term)
2661	510.9827	1529.9264	1529.9207	3.70	1	(25)	0.41	1	K_VINDFVEKGTQGK.I + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
2992	558.9998	1673.9774	1673.9716	3.49	2	(33)	0.093	1	K_KVINDFVEKGTQGK.I + 3 Dimethyl (K); Dimethyl (N-term)
3035	564.3665	1690.0777	1690.0721	3.36	2	34	0.017	1	K_KVINDFVEKGTQGK.I + 3 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
3849	687.0324	2058.0754	2058.0633	5.88	0	(46)	0.0057	1	R_IFNNGADLSGITEENAPLK.L + Dimethyl (K); Dimethyl (N-term)
3850	687.0330	2058.0772	2058.0633	6.77	0	62	0.00017	1	R_IFNNGADLSGITEENAPLK.L + Dimethyl (K); Dimethyl (N-term)
4537	713.3945	2849.5487	2849.5287	7.04	1	62	9.7e-005	2	R_IFNNGADLSGITEENAPLKLSQAVHK.A + 2 Dimethyl (K); Dimethyl (N-term)
4538	713.3948	2849.5500	2849.5287	7.49	1	(50)	0.0018	3	R_IFNNGADLSGITEENAPLKLSQAVHK.A + 2 Dimethyl (K); Dimethyl (N-term)

Proteins matching the same set of peptides:

[IPI00123920](#) Mass: 45996 Score: 205 Queries matched: 14
Tax_Id=10090 Gene_Symbol=Serpinalc Alpha-1-antitrypsin 1-3 precursor
[IPI00406302](#) Mass: 46145 Score: 205 Queries matched: 14
Tax_Id=10090 Gene_Symbol=Serpinala Alpha-1-antitrypsin 1-1 precursor

39. [IPI00318614](#) Mass: 51330 Score: 198 Queries matched: 4 emPAI: 0.10
Tax_Id=10090 Gene_Symbol=Idh2 Isocitrate dehydrogenase [NADP], mitochondrial precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2212	461.9135	1382.7187	1382.7154	2.42	0	(64)	5.4e-005	1	K_TIEAEAAHGTVTR.H + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2213	461.9139	1382.7197	1382.7154	3.14	0	86	3.7e-007	1	K_TIEAEAAHGTVTR.H + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2219	463.2553	1386.7442	1386.7405	2.67	0	(69)	2.6e-005	1	K_TIEAEAAHGTVTR.H + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2220	463.2555	1386.7447	1386.7405	3.05	0	(76)	4.6e-006	1	K_TIEAEAAHGTVTR.H + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00875110](#) Mass: 52994 Score: 198 Queries matched: 4
Tax_Id=10090 Gene_Symbol=Idh2 52 kDa protein

40. [IPI00323816](#) Mass: 53147 Score: 193 Queries matched: 6 emPAI: 0.33
Tax_Id=10090 Gene_Symbol=Selenbp2 Selenium-binding protein 2

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1269	548.8611	1095.7077	1095.7016	5.63	0	59	0.00011	1	K_LILPGLISSR.I + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1280	550.8738	1099.7331	1099.7267	5.87	0	(53)	0.00033	1	K_LILPGLISSR.I + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1398	572.3370	1142.6594	1142.6546	4.15	0	(51)	0.0014	1	K_VIEASEIQAK.C + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1418	576.3619	1150.7093	1150.7049	3.86	0	60	0.00016	1	K_VIEASEIQAK.C + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1869	631.3461	1260.6777	1260.6714	5.01	0	67	3.5e-005	1	R_IYVVDVGSEPR.A + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1876	633.3592	1264.7038	1264.6965	5.78	0	(61)	0.00013	1	R_IYVVDVGSEPR.A + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00623845](#) Mass: 53051 Score: 193 Queries matched: 6
Tax_Id=10090 Gene_Symbol=LOC100044204;Selenbp1 Selenium-binding protein 1

41. [IPI00323592](#) Mass: 36045 Score: 188 Queries matched: 8 emPAI: 0.62

Tax_Id=10090 Gene_Symbol=Mdh2 Malate dehydrogenase, mitochondrial precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 799	460.2621	918.5097	918.5062	3.77	0	46	0.0035	1	K_ITPFEEK.M + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1197	528.8331	1055.6516	1055.6467	4.67	0	40	0.015	1	R_ANTFVAELK.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1365	565.3286	1128.6427	1128.6390	3.23	0	(35)	0.061	1	R_IQEAGTEVVK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1384	569.3539	1136.6932	1136.6893	3.48	0	51	0.0012	1	R_IQEAGTEVVK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1462	585.8469	1169.6793	1169.6729	5.44	0	68	2.7e-005	1	K_MIAEAIPELK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1516	589.8719	1177.7293	1177.7232	5.25	0	(64)	5.2e-005	1	K_MIAEAIPELK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4262	607.0845	2424.3087	2424.2951	5.63	0	49	0.0033	1	R_LTLYDIAHTPGVAADLSHIETR.A + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4263	607.0847	2424.3095	2424.2951	5.96	0	(48)	0.0037	1	R_LTLYDIAHTPGVAADLSHIETR.A + Dimethyl:2H(4) (N-term)

42. [IPI00127560](#) Mass: 15880 Score: 188 Queries matched: 7 emPAI: 1.13

Tax_Id=10090 Gene_Symbol=Ttr Transthyretin precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1004	499.7994	997.5843	997.5808	3.48	0	(57)	0.00032	1	R_GSPAVDVAVK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1005	499.7995	997.5845	997.5808	3.72	0	(57)	0.00031	1	R_GSPAVDVAVK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1036	503.8245	1005.6344	1005.6310	3.39	0	57	0.00027	1	R_GSPAVDVAVK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1037	503.8248	1005.6351	1005.6310	4.05	0	(46)	0.0036	1	R_GSPAVDVAVK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2411	723.8761	1445.7376	1445.7278	6.79	0	73	6.8e-006	1	K_TSEGSWEFASGK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2900	548.6112	1642.8118	1642.8050	4.14	0	35	0.035	1	K_TAESGELHGLTTDEK.F + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2922	551.2947	1650.8622	1650.8552	4.24	0	(34)	0.086	1	K_TAESGELHGLTTDEK.F + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

43. [IPI00555069](#) Mass: 44921 Score: 184 Queries matched: 7 emPAI: 0.40

Tax_Id=10090 Gene_Symbol=Pgk1 Phosphoglycerate kinase 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1315	556.3246	1110.6347	1110.6285	5.62	0	(43)	0.0069	1	K_VLPGVDALSNV.- + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1329	558.3374	1114.6603	1114.6536	5.97	0	54	0.00073	1	K_VLPGVDALSNV.- + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2970	554.9485	1661.8237	1661.8162	4.54	0	72	8.6e-006	1	K_LGDVYVNDAPFGTAHR.A + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2978	556.2905	1665.8497	1665.8413	5.06	0	(57)	0.00031	1	K_LGDVYVNDAPFGTAHR.A + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2979	556.2906	1665.8501	1665.8413	5.29	0	(55)	0.00059	1	K_LGDVYVNDAPFGTAHR.A + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3335	609.0283	1824.0631	1824.0509	6.72	0	30	0.15	1	K_ALESPERPFLLAILGGAK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3355	611.7116	1832.1130	1832.1011	6.49	0	(26)	0.23	1	K_ALESPERPFLLAILGGAK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

44. [IPI00132762](#) Mass: 80501 Score: 181 Queries matched: 2 emPAI: 0.07

Tax_Id=10090 Gene_Symbol=Trap1 Heat shock protein 75 kDa, mitochondrial precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
-------	----------	----------	----------	-----	------	-------	--------	------	---------

[2692](#) 771.4176 1540.8207 1540.8097 7.17 0 (104) 8.9e-009 1 R_GVVDSEDIPLNLSR.E + Dimethyl (N-term)
[2699](#) 773.4298 1544.8451 1544.8348 6.65 0 113 1.1e-009 1 R_GVVDSEDIPLNLSR.E + Dimethyl:2H(4) (N-term)

45. [IPI00128249](#) Mass: 38100 Score: 177 Queries matched: 4 emPAI: 0.14

Tax_Id=10090 Gene_Symbol=Ahsg Alpha-2-HS-glycoprotein precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 4004	732.0468	2193.1187	2193.1066	5.54	0	(58)	0.0003	1	R_HAFSPVASVESASGETLHSPK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4005	732.0469	2193.1190	2193.1066	5.65	0	(61)	0.00016	1	R_HAFSPVASVESASGETLHSPK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4020	734.7302	2201.1687	2201.1568	5.41	0	(68)	4.1e-005	1	R_HAFSPVASVESASGETLHSPK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4021	734.7303	2201.1690	2201.1568	5.55	0	73	1.1e-005	1	R_HAFSPVASVESASGETLHSPK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

46. [IPI00126248](#) Mass: 121630 Score: 174 Queries matched: 7 emPAI: 0.11

Tax_Id=10090 Gene_Symbol=Acly Adult male testis cDNA, RIKEN full-length enriched library, clone:4922505F07 product:ATP citrate lyase, full insert sequence

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 474	366.7509	731.4872	731.4843	3.88	0	33	0.05	1	R_ELGLIR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2637	760.3841	1518.7537	1518.7460	5.08	0	91	9.7e-008	1	R_SGGMSELNLIISR.T + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2638	760.3842	1518.7538	1518.7460	5.10	0	(73)	6.3e-006	1	R_SGGMSELNLIISR.T + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2800	800.4902	1598.9659	1598.9545	7.15	0	34	0.056	1	R_TIAIIAEGIPEALTR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3463	470.2560	1876.9948	1876.9894	2.89	2	(34)	0.11	1	R_TASFSESRADAVAPAKK.A + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3523	473.2749	1889.0705	1889.0647	3.05	2	(37)	0.039	1	R_TASFSESRADAVAPAKK.A + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3524	473.2750	1889.0710	1889.0647	3.31	2	48	0.0037	1	R_TASFSESRADAVAPAKK.A + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00762047](#) Mass: 120564 Score: 174 Queries matched: 7

Tax_Id=10090 Gene_Symbol=Acly ATP-citrate synthase

47. [IPI00830223](#) Mass: 28383 Score: 173 Queries matched: 8 emPAI: 0.84

Tax_Id=10090 Gene_Symbol=Tpm1 28 kDa protein

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2179	687.8311	1373.6477	1373.6422	3.99	0	64	1.9e-005	1	R_SLQEQADAAEER.A + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2193	689.8439	1377.6733	1377.6674	4.32	0	(63)	4.3e-005	1	R_SLQEQADAAEER.A + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3173	585.9825	1754.9257	1754.9162	5.41	1	(38)	0.036	1	R_IQLVEEELDRAQER.L + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3186	587.3243	1758.9512	1758.9413	5.60	1	56	0.00069	1	R_IQLVEEELDRAQER.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3562	638.0165	1911.0277	1911.0173	5.44	2	31	0.21	1	R_RIQLVEEELDRAQER.L + Dimethyl (N-term)
<input checked="" type="checkbox"/> 4117	565.3049	2257.1904	2257.1801	4.56	2	(34)	0.087	1	R_LATALQKLEEAKEADESER.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4125	567.3176	2265.2414	2265.2303	4.90	2	(32)	0.14	1	R_LATALQKLEEAKEADESER.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4126	567.3177	2265.2417	2265.2303	5.04	2	47	0.0048	1	R_LATALQKLEEAKEADESER.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00830333](#) Mass: 28959 Score: 173 Queries matched: 8
Tax_Id=10090 Gene_Symbol=Tpm1 29 kDa protein
[IPI00831330](#) Mass: 28597 Score: 173 Queries matched: 8
Tax_Id=10090 Gene_Symbol=Tpm1 29 kDa protein
[IPI00831423](#) Mass: 28651 Score: 173 Queries matched: 8
Tax_Id=10090 Gene_Symbol=Tpm1 29 kDa protein
[IPI00831431](#) Mass: 28466 Score: 173 Queries matched: 8
Tax_Id=10090 Gene_Symbol=Tpm1 28 kDa protein
[IPI00831626](#) Mass: 28679 Score: 173 Queries matched: 8
Tax_Id=10090 Gene_Symbol=Tpm1 29 kDa protein

48. [IPI00648086](#) Mass: 15200 Score: 172 Queries matched: 8 emPAI: 2.53
Tax_Id=10090 Gene_Symbol=Laspl LIM and SH3 protein 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2412	723.8871	1445.7597	1445.7515	5.72	0	(58)	0.00034	1	K_GFSVVADTPELQR.I + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2430	725.9003	1449.7860	1449.7766	6.50	0	66	5.5e-005	1	K_GFSVVADTPELQR.I + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2528	495.9102	1484.7087	1484.7042	3.07	1	(39)	0.0087	1	R_MGPGSGEGVEPERR.E + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2540	497.2518	1488.7337	1488.7293	2.98	1	(32)	0.074	1	R_MGPGSGEGVEPERR.E + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2569	500.6250	1498.8531	1498.8467	4.25	1	52	0.0011	1	R_LKQQSELQSQVR.Y + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2590	502.5834	1504.7283	1504.7242	2.72	1	48	0.0013	1	R_MGPGSGEGVEPERR.E + Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2600	503.3082	1506.9028	1506.8969	3.86	1	(45)	0.0052	1	R_LKQQSELQSQVR.Y + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3914	527.0399	2104.1306	2104.1230	3.60	1	31	0.18	1	K_TQDQISNIKYHEEFK.S + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00649913](#) Mass: 21332 Score: 172 Queries matched: 8
Tax_Id=10090 Gene_Symbol=Laspl LIM and SH3 protein 1
[IPI00125091](#) Mass: 30374 Score: 172 Queries matched: 8
Tax_Id=10090 Gene_Symbol=Laspl LIM and SH3 domain protein 1

49. [IPI00121209](#) Mass: 30569 Score: 168 Queries matched: 6 emPAI: 0.63
Tax_Id=10090 Gene_Symbol=Apoal Apolipoprotein A-I precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2116	449.5752	1345.7037	1345.6990	3.52	1	40	0.016	1	R_LSPVAEEFRDR.M + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2124	450.9172	1349.7297	1349.7241	4.16	1	(40)	0.024	1	R_LSPVAEEFRDR.M + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2138	453.8945	1358.6617	1358.6579	2.85	0	51	0.00075	1	K_SNPRTLNEYHTR.A + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2146	455.2362	1362.6867	1362.6830	2.73	0	(47)	0.0023	1	K_SNPRTLNEYHTR.A + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2153	684.8821	1367.7497	1367.7408	6.49	0	71	1.6e-005	1	K_VAPLGAELQESAR.Q + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2170	686.8951	1371.7756	1371.7660	7.03	0	(69)	2.6e-005	1	K_VAPLGAELQESAR.Q + Dimethyl:2H(4) (N-term)

50. [IPI00555059](#) Mass: 24969 Score: 168 Queries matched: 10 emPAI: 0.81
Tax_Id=10090 Gene_Symbol=Prdx6 Peroxiredoxin-6

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 823	467.7556	933.4967	933.4920	5.12	0	31	0.09	1	R_NFDEILR.V + Dimethyl (N-term)
<input checked="" type="checkbox"/> 997	332.5553	994.6442	994.6415	2.67	1	29	0.14	1	K_LAPEFAKR.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1670	610.3591	1218.7037	1218.6972	5.35	0	(25)	0.6	1	K_LSILYPATTGR.N + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1696	612.3718	1222.7291	1222.7223	5.55	0	33	0.082	1	K_LSILYPATTGR.N + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1780	411.9267	1232.7582	1232.7533	3.97	1	(53)	0.00076	1	R_VVFIFGPDKK.L + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1832	415.9517	1244.8332	1244.8286	3.63	1	53	0.00021	1	R_VVFIFGPDKK.L + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4097	746.7682	2237.2827	2237.2671	6.97	0	(47)	0.0027	1	R_VVDSLQLTGTKPVATPVVDWK.K + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4098	746.7683	2237.2831	2237.2671	7.14	0	54	0.00055	1	R_VVDSLQLTGTKPVATPVVDWK.K + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4109	750.7935	2249.3587	2249.3425	7.22	0	(43)	0.0024	1	R_VVDSLQLTGTKPVATPVVDWK.K + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4110	750.7936	2249.3589	2249.3425	7.30	0	(39)	0.0053	1	R_VVDSLQLTGTKPVATPVVDWK.K + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00754071](#) Mass: 22594 Score: 168 Queries matched: 10
Tax_Id=10090 Gene_Symbol=Prdx6 22 kDa protein
[IPI00758024](#) Mass: 24925 Score: 168 Queries matched: 10
Tax_Id=10090 Gene_Symbol=Prdx6 Peroxiredoxin 6

51. [IPI00336324](#) Mass: 36659 Score: 167 Queries matched: 9 emPAI: 0.61
Tax_Id=10090 Gene_Symbol=Mdh1 Malate dehydrogenase, cytoplasmic

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 914	487.2834	972.5523	972.5492	3.21	0	48	0.0031	1	K_LGVTADDVK.N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 943	491.3085	980.6025	980.5994	3.18	0	(46)	0.0038	1	K_LGVTADDVK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2315	711.3796	1420.7447	1420.7351	6.80	0	58	0.00034	1	K_FVEGLPINDFSR.E + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2332	713.3923	1424.7700	1424.7602	6.89	0	(57)	0.00041	1	K_FVEGLPINDFSR.E + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3514	943.9756	1885.9367	1885.9196	9.07	1	(42)	0.012	1	K_ELTEEKETAFEFLLSA.- + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3536	948.0010	1893.9875	1893.9699	9.32	1	(35)	0.067	1	K_ELTEEKETAFEFLLSA.- + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3537	948.0012	1893.9879	1893.9699	9.51	1	42	0.013	1	K_ELTEEKETAFEFLLSA.- + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4176	584.8030	2335.1827	2335.1709	5.06	0	40	0.022	1	K_NVIIWGNHSSQYDPVNHAK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4177	584.8030	2335.1828	2335.1709	5.09	0	(37)	0.046	1	K_NVIIWGNHSSQYDPVNHAK.V + Dimethyl (K); Dimethyl (N-term)

52. [IPI00323624](#) Mass: 187904 Score: 161 Queries matched: 6 emPAI: 0.09
Tax_Id=10090 Gene_Symbol=C3 Isoform Long of Complement C3 precursor (Fragment)

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 888	480.3149	958.6153	958.6113	4.11	0	35	0.033	1	R_QPLTITVR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1086	515.2898	1028.5650	1028.5614	3.50	0	(36)	0.036	1	K_LSINTPNSR.Q + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1105	517.3023	1032.5901	1032.5865	3.40	0	48	0.0025	1	K_LSINTPNSR.Q + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1470	586.3583	1170.7021	1170.6972	4.19	0	(53)	0.001	1	K_VLVVVTQGSNAK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1520	590.3837	1178.7529	1178.7475	4.62	0	71	7.9e-006	1	K_VLVVVTQGSNAK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

[2511](#) 737.9296 1473.8447 1473.8341 7.21 0 43 0.01 1 R_VVIEDGVGDAVLTR.K + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00759878](#) Mass: 187905 Score: 161 Queries matched: 6
Tax_Id=10090 Gene_Symbol=C3 complement component 3

53. [IPI00355382](#) Mass: 54063 Score: 161 Queries matched: 6 emPAI: 0.20
Tax_Id=10090 Gene_Symbol=Wars Isoform 2 of Tryptophanyl-tRNA synthetase, cytoplasmic

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 822	467.7450	933.4754	933.4709	4.84	0	39	0.014	1	R_QLSFHFQ.- + Dimethyl (N-term)
<input checked="" type="checkbox"/> 833	469.7575	937.5005	937.4960	4.86	0	(28)	0.2	1	R_QLSFHFQ.- + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3385	615.6958	1844.0656	1844.0520	7.38	0	(56)	0.00048	1	K_TLIDVLQPLIAEHQAR.R + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3386	615.6958	1844.0657	1844.0520	7.47	0	(55)	0.00061	1	K_TLIDVLQPLIAEHQAR.R + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3389	617.0375	1848.0907	1848.0771	7.39	0	63	7.1e-005	1	K_TLIDVLQPLIAEHQAR.R + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3390	617.0375	1848.0908	1848.0771	7.42	0	(55)	0.00046	1	K_TLIDVLQPLIAEHQAR.R + Dimethyl:2H(4) (N-term)

54. [IPI00318671](#) Mass: 61841 Score: 160 Queries matched: 5 emPAI: 0.23
Tax_Id=10090 Gene_Symbol=Ehd4 EH-domain containing 4-KJR (Fragment)

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2243	698.8561	1395.6977	1395.6857	8.65	0	47	0.0025	1	R_YLLEQDFPGMR.I + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2254	700.8682	1399.7218	1399.7108	7.86	0	(44)	0.006	1	R_YLLEQDFPGMR.I + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2562	748.8916	1495.7687	1495.7603	5.59	0	85	4.5e-007	1	R_SGGMDAVQVTGGLR.S + Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 3418	619.3577	1855.0514	1855.0414	5.34	1	(42)	0.013	1	K_SISIIDSPGILSGEKQR.I + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3430	622.0416	1863.1030	1863.0917	6.10	1	46	0.0035	1	K_SISIIDSPGILSGEKQR.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

55. [IPI00380436](#) Mass: 103631 Score: 154 Queries matched: 6 emPAI: 0.16
Tax_Id=10090 Gene_Symbol=Actn1 Alpha-actinin-1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1140	348.9126	1043.7159	1043.7132	2.54	0	33	0.031	1	K_SIVNYKPK.I + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1464	391.2165	1170.6277	1170.6244	2.83	1	39	0.018	1	K_ATLPDADKER.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2135	453.2954	1356.8644	1356.8580	4.69	0	50	0.00075	1	R_LAILGIHNEVSK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2209	691.8253	1381.6361	1381.6296	4.70	0	53	0.00022	1	K_GISQEQMNEFR.A + Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2457	729.4056	1456.7967	1456.7885	5.63	0	(54)	0.00082	1	R_TINEVENQILTR.D + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2465	731.4187	1460.8229	1460.8136	6.30	0	65	7.3e-005	1	R_TINEVENQILTR.D + Dimethyl:2H(4) (N-term)

56. [IPI00136906](#) Mass: 39501 Score: 152 Queries matched: 4 emPAI: 0.29
Tax_Id=10090 Gene_Symbol=Capg Macrophage-capping protein

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2024	660.8481	1319.6817	1319.6755	4.73	0	58	0.00022	1	K_VSDATGQMNLTK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2052	664.8730	1327.7315	1327.7257	4.38	0	(49)	0.0027	1	K_VSDATGQMNLTK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2264	702.3906	1402.7667	1402.7569	7.02	0	65	5.9e-005	1	R_QAALQVADGFISR.M + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2283	704.4031	1406.7917	1406.7820	6.93	0	(52)	0.0013	1	R_QAALQVADGFISR.M + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00277930](#) Mass: 39030 Score: 152 Queries matched: 4

Tax_Id=10090 Gene_Symbol=Capg Capping protein

[IPI00876389](#) Mass: 39158 Score: 152 Queries matched: 4

Tax_Id=10090 Gene_Symbol=Capg 10 days neonate olfactory brain cDNA, RIKEN full-length enriched library, clone:E530115013 product:capping protein (actin filament),

57. [IPI00123223](#) Mass: 166618 Score: 150 Queries matched: 5 emPAI: 0.06

Tax_Id=10090 Gene_Symbol=Mug1 Murinoglobulin-1 precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 438	352.7277	703.4408	703.4381	3.91	0	38	0.017	1	K_ALGFLR.A + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2379	719.3741	1436.7337	1436.7260	5.41	0	85	5.7e-007	1	R_FSTSQSLPASQTR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2397	721.3866	1440.7586	1440.7511	5.26	0	(76)	4.6e-006	1	R_FSTSQSLPASQTR.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2868	544.6272	1630.8597	1630.8501	5.90	0	51	0.0015	1	R_AHFSVMGDILSSAIR.N + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2884	545.9685	1634.8837	1634.8752	5.20	0	(33)	0.11	1	R_AHFSVMGDILSSAIR.N + Dimethyl:2H(4) (N-term)

58. [IPI00319994](#) Mass: 36817 Score: 140 Queries matched: 6 emPAI: 0.50

Tax_Id=10090 Gene_Symbol=Ldha L-lactate dehydrogenase A chain

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1472	586.8141	1171.6137	1171.6084	4.51	0	44	0.0056	1	K_VTLTPEEEAR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1488	587.8304	1173.6462	1173.6394	5.84	0	(66)	4.6e-005	1	K_SADTLWGIQK.E + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1496	588.8265	1175.6385	1175.6336	4.22	0	(37)	0.033	1	K_VTLTPEEEAR.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1527	591.8557	1181.6968	1181.6896	6.06	0	67	3.3e-005	1	K_SADTLWGIQK.E + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1805	413.2544	1236.7414	1236.7376	3.09	1	(34)	0.074	1	R_RVHPISTMIK.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1831	415.9377	1244.7912	1244.7879	2.70	1	36	0.029	1	R_RVHPISTMIK.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00751369](#) Mass: 40075 Score: 140 Queries matched: 6

Tax_Id=10090 Gene_Symbol=Ldha L-lactate dehydrogenase

59. [IPI00118899](#) Mass: 105368 Score: 140 Queries matched: 3 emPAI: 0.08

Tax_Id=10090 Gene_Symbol=Actn4 Alpha-actinin-4

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
-------	----------	----------	----------	-----	------	-------	--------	------	---------

<input checked="" type="checkbox"/>	2215	692.8489	1383.6833	1383.6754	5.69	0	79	1.1e-006	1	K_GISQEQMQEFR.A + Dimethyl:2H(4) (N-term)
	2457	729.4056	1456.7967	1456.7885	5.63	0	(54)	0.00082	1	R_TINEVENQILTR.D + Dimethyl (N-term)
	2465	731.4187	1460.8229	1460.8136	6.30	0	65	7.3e-005	1	R_TINEVENQILTR.D + Dimethyl:2H(4) (N-term)

60. [IPI00123181](#) Mass: 227414 Score: 139 Queries matched: 6 emPAI: 0.06

Tax_Id=10090 Gene_Symbol=Myh9 Myosin-9

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<input checked="" type="checkbox"/>	831	469.3140	936.6135	936.6095	4.26	0	59	0.00016	1	K_ASIAALEAK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2798	533.9695	1598.8867	1598.8781	5.42	0	43	0.012	1	K_VSHLLGINVTDFTR.G + Dimethyl (N-term)
<input checked="" type="checkbox"/>	2805	535.3114	1602.9124	1602.9032	5.74	0	(39)	0.028	1	K_VSHLLGINVTDFTR.G + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3017	561.7184	1682.1335	1682.1248	5.18	1	57	1.7e-005	1	R_VISGVLQLGNIAFKK.E + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3233	597.6956	1790.0650	1790.0542	6.07	0	55	0.00039	1	R_QLLQANPILEAFGNAK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3888	522.0145	2084.0290	2084.0208	3.95	1	25	0.43	1	K_TLEDEAKTHEAQIQEMR.Q + Dimethyl (K); Dimethyl (N-term)

Proteins matching the same set of peptides:

[IPI00788324](#) Mass: 227429 Score: 139 Queries matched: 6

Tax_Id=10090 Gene_Symbol=Myh9 15 days pregnant adult female amnion cDNA, RIKEN full-length enriched library, clone:M421002E03 product:myosin heavy chain IX, full i

61. [IPI00223757](#) Mass: 36052 Score: 136 Queries matched: 3 emPAI: 0.15

Tax_Id=10090 Gene_Symbol=Akrlb3 Aldose reductase

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<input checked="" type="checkbox"/>	836	469.7862	937.5578	937.5535	4.59	0	27	0.22	1	K_VAIDLGYR.H + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2821	808.4501	1614.8857	1614.8729	7.92	0	88	3.8e-007	1	K_TIGVSNFNPLQIER.I + Dimethyl (N-term)
<input checked="" type="checkbox"/>	2830	810.4626	1618.9107	1618.8981	7.84	0	(76)	5.5e-006	1	K_TIGVSNFNPLQIER.I + Dimethyl:2H(4) (N-term)

62. [IPI00137331](#) Mass: 51885 Score: 136 Queries matched: 4 emPAI: 0.10

Tax_Id=10090 Gene_Symbol=Cap1 Adenylyl cyclase-associated protein 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<input checked="" type="checkbox"/>	3434	467.0316	1864.0975	1864.0932	2.30	2	27	0.26	1	K_HVSDDMKTHKNPALK.A + 3 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	3644	662.0378	1983.0917	1983.0789	6.46	0	75	6.8e-006	1	R_SALFAQINQGESITHALK.H + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3656	664.7208	1991.1406	1991.1291	5.79	0	(62)	0.00011	1	R_SALFAQINQGESITHALK.H + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3657	664.7212	1991.1417	1991.1291	6.34	0	(54)	0.00068	1	R_SALFAQINQGESITHALK.H + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00869430](#) Mass: 51875 Score: 136 Queries matched: 4

Tax_Id=10090 Gene_Symbol=Cap1 Adenylyl cyclase-associated protein

63. [IPI00223216](#) Mass: 33673 Score: 134 Queries matched: 3 emPAI: 0.16

Tax_Id=10090 Gene_Symbol=Tst Thiosulfate sulfurtransferase

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3901	699.0362	2094.0867	2094.0746	5.80	0	71	1.9e-005	1	R_YLGTQPEPDI VGLDSGHIR.G + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3906	700.3782	2098.1127	2098.0997	6.20	0	(62)	0.00017	1	R_YLGTQPEPDI VGLDSGHIR.G + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3907	700.3782	2098.1127	2098.0997	6.21	0	(66)	5.9e-005	1	R_YLGTQPEPDI VGLDSGHIR.G + Dimethyl:2H(4) (N-term)

64. [IPI00117167](#) Mass: 86287 Score: 122 Queries matched: 7 emPAI: 0.16

Tax_Id=10090 Gene_Symbol=Gsn Isoform 1 of Gelsolin precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 630	407.2646	812.5147	812.5120	3.31	0	30	0.096	1	R_TPITVVR.Q + Dimethyl (N-term)
<input checked="" type="checkbox"/> 633	409.2771	816.5397	816.5371	3.20	0	(28)	0.12	1	R_TPITVVR.Q + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2234	696.3848	1390.7550	1390.7456	6.74	0	73	1.1e-005	1	K_SGALNSNDAFV LK.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2250	700.4101	1398.8056	1398.7958	7.00	0	(59)	0.00028	1	K_SGALNSNDAFV LK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3511	629.3508	1885.0305	1885.0197	5.72	0	(30)	0.25	1	R_QTQVSVLPEGGETPLFK.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3512	629.3509	1885.0307	1885.0197	5.86	0	38	0.04	1	R_QTQVSVLPEGGETPLFK.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3534	632.0343	1893.0811	1893.0699	5.89	0	(35)	0.058	1	R_QTQVSVLPEGGETPLFK.Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00759948](#) Mass: 80997 Score: 122 Queries matched: 7

Tax_Id=10090 Gene_Symbol=Gsn Isoform 2 of Gelsolin precursor

65. [IPI00113141](#) Mass: 51988 Score: 122 Queries matched: 4 emPAI: 0.16

Tax_Id=10090 Gene_Symbol=Cs Citrate synthase, mitochondrial precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1337	560.2881	1118.5617	1118.5567	4.45	0	(34)	0.042	1	R_EGSSIGAIDSR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1351	562.3006	1122.5866	1122.5819	4.26	0	52	0.00073	1	R_EGSSIGAIDSR.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3904	700.0475	2097.1206	2097.1044	7.72	1	(63)	0.00012	1	K_GLVYETSVLDPDEGIRFR.G + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3905	700.0475	2097.1207	2097.1044	7.77	1	67	4.5e-005	1	K_GLVYETSVLDPDEGIRFR.G + Dimethyl:2H(4) (N-term)

66. [IPI00466069](#) Mass: 96222 Score: 122 Queries matched: 8 emPAI: 0.20

Tax_Id=10090 Gene_Symbol=Eef2 Elongation factor 2

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 875	477.7652	953.5158	953.5120	3.96	0	33	0.053	1	K_SDPVVS YR.E + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1030	501.3076	1000.6006	1000.5967	3.82	0	42	0.013	1	R_GGGQIIPTAR.R + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1339	560.3146	1118.6147	1118.6084	5.64	0	(55)	0.00064	1	M_VNFTVDQIR.A + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1352	562.3271	1122.6396	1122.6335	5.43	0	58	0.00028	1	M_VNFTVDQIR.A + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2372	479.2907	1434.8503	1434.8446	3.99	1	(28)	0.27	1	R_VAVEAKNPADLPK.L + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2418	483.3158	1446.9257	1446.9199	3.96	1	36	0.02	1	R_VAVEAKNPADLPK.L + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

- [3802](#) 681.3707 2041.0904 2041.0795 5.34 0 29 0.27 1 [R_GHVFEESQVAGTPMFVVK.A](#) + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
- [4013](#) 550.5436 2198.1455 2198.1331 5.61 1 48 0.0035 1 [K_ARFPFDGLAEDIDKGEVSAR.Q](#) + Dimethyl (K); Dimethyl (N-term)

67. [IPI00128522](#) Mass: 23057 Score: 118 Queries matched: 2 emPAI: 0.24

Tax_Id=10090 Gene_Symbol=Hspbl Isoform A of Heat shock protein beta-1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3062	566.9740	1697.9002	1697.8948	3.17	1	82	1.5e-006	1	R_AQIGGPEAGKSEQSGAK.- + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3081	570.9990	1709.9752	1709.9701	2.99	1	(70)	2.2e-005	1	R_AQIGGPEAGKSEQSGAK.- + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

- [IPI00468068](#) Mass: 22004 Score: 118 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Hspbl Isoform B of Heat shock protein beta-1
- [IPI00623819](#) Mass: 19425 Score: 118 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Hspbl Isoform C of Heat shock protein beta-1

68. [IPI00129526](#) Mass: 92703 Score: 116 Queries matched: 6 emPAI: 0.18

Tax_Id=10090 Gene_Symbol=Hsp90b1 Endoplasmin precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1124	519.7793	1037.5440	1037.5393	4.56	0	(29)	0.16	1	K_SGTSEFLNK.M + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1153	523.8042	1045.5938	1045.5895	4.12	0	42	0.011	1	K_SGTSEFLNK.M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1165	525.3004	1048.5863	1048.5804	5.56	0	44	0.0085	1	R_SGYLLPDTK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1204	529.3252	1056.6358	1056.6307	4.88	0	(31)	0.13	1	R_SGYLLPDTK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
2061	666.3602	1330.7058	1330.6980	5.87	0	60	0.00016	1	R_ELISNASDALDK.I + Dimethyl (K); Dimethyl (N-term)
2812	536.9876	1607.9410	1607.9334	4.75	1	43	0.0087	1	R_ELISNASDALDKIR.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

69. [IPI00269661](#) Mass: 39856 Score: 114 Queries matched: 2 emPAI: 0.06

Tax_Id=10090 Gene_Symbol=Hnrpa3 Isoform 1 of Heterogeneous nuclear ribonucleoprotein A3

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3600	648.2895	1941.8466	1941.8391	3.86	0	69	2.8e-006	1	R_SSGSPYGGYGSGGGSGYGS.R + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3601	648.2895	1941.8467	1941.8391	3.90	0	(68)	3.9e-006	1	R_SSGSPYGGYGSGGGSGYGS.R + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

- [IPI00269662](#) Mass: 37291 Score: 114 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Hnrpa3 Isoform 2 of Heterogeneous nuclear ribonucleoprotein A3
- [IPI00459722](#) Mass: 34683 Score: 114 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Hnrpa3 Hnrpa3 protein
- [IPI00461800](#) Mass: 37447 Score: 114 Queries matched: 2
Tax_Id=10090 Gene_Symbol=EG432946 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 1
- [IPI00466185](#) Mass: 33120 Score: 114 Queries matched: 2

Tax_Id=10090 Gene_Symbol=- 33 kDa protein
[IPI00626666](#) Mass: 21719 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=- 22 kDa protein
[IPI00659723](#) Mass: 37325 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=LOC630401 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 5
[IPI00663550](#) Mass: 32639 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=LOC630401 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 1
[IPI00664047](#) Mass: 32155 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=LOC633657 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 5
[IPI00667787](#) Mass: 36745 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=LOC545592 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 16
[IPI00670004](#) Mass: 36815 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=EG627828 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 5
[IPI00670681](#) Mass: 34383 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=EG432946 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 7
[IPI00674712](#) Mass: 32090 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=EG627828 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 1
[IPI00677689](#) Mass: 34489 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=LOC545592 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 12
[IPI00749630](#) Mass: 37345 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=EG668559 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 4
[IPI00750059](#) Mass: 35197 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=EG668559 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 3
[IPI00750428](#) Mass: 30660 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=LOC545592 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 13
[IPI00751584](#) Mass: 18456 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=Hnrpa3 Heterogeneous nuclear ribonucleoprotein A3
[IPI00752179](#) Mass: 33165 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=EG668559 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 1
[IPI00757273](#) Mass: 33145 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=LOC630401 similar to heterogeneous nuclear ribonucleoprotein A3, isoform 6
[IPI00849556](#) Mass: 33930 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=EG432946 similar to heterogeneous nuclear ribonucleoprotein A3
[IPI00849731](#) Mass: 33408 Score: 114 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=LOC633657 similar to heterogeneous nuclear ribonucleoprotein A3

70. [IPI00467833](#) Mass: 27038 Score: 113 Queries matched: 2 emPAI: 0.20
 Tax_Id=10090 Gene_Symbol=Tpi1 Triosephosphate isomerase

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2647	508.2682	1521.7828	1521.7787	2.71	0	74	6.4e-006	1	K_TATPQQAQEVHEK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2660	510.9515	1529.8328	1529.8289	2.52	0	(69)	2.4e-005	1	K_TATPQQAQEVHEK.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

71. [IPI00462072](#) Mass: 47453 Score: 111 Queries matched: 8 emPAI: 0.37
 Tax_Id=10090 Gene_Symbol=EG433182;Eno1;LOC100044223 Alpha-enolase

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 880	478.3150	954.6155	954.6113	4.37	0	28	0.22	1	K_TIAPALVSK.K + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 895	482.3402	962.6659	962.6616	4.52	0	(26)	0.13	1	K_TIAPALVSK.K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 999	332.8872	995.6397	995.6367	2.97	1	26	0.33	1	R_SFRNPLAK.- + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1801	413.2357	1236.6854	1236.6826	2.26	0	(49)	0.0023	1	K_GVSQAVEHINK.T + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1829	415.9194	1244.7365	1244.7328	2.91	0	61	0.00013	1	K_GVSQAVEHINK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4372	648.3453	2589.3520	2589.3398	4.71	2	36	0.061	1	R_AAVPSGASTGIYEALERLNDKTR.F + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4384	650.3584	2597.4045	2597.3900	5.56	2	(26)	0.48	1	R_AAVPSGASTGIYEALERLNDKTR.F + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4385	650.3585	2597.4047	2597.3900	5.66	2	(28)	0.3	1	R_AAVPSGASTGIYEALERLNDKTR.F + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00849751](#) Mass: 19464 Score: 111 Queries matched: 8

Tax_Id=10090 Gene_Symbol=LOC100047882 similar to enolase 1, alpha non-neuron

72. [IPI00115522](#) Mass: 61801 Score: 110 Queries matched: 7 emPAI: 0.28

Tax_Id=10090 Gene_Symbol=Fga fibrinogen, alpha polypeptide

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 989	496.3431	990.6716	990.6677	3.91	0	41	0.0047	1	K_QLQQVIAK.E + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2381	719.4229	1436.8312	1436.8189	8.52	0	31	0.16	1	K_MSPVPDLVPGSFK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2446	727.4194	1452.8243	1452.8138	7.22	0	(27)	0.37	1	K_MSPVPDLVPGSFK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2658	510.5934	1528.7582	1528.7521	3.99	0	(54)	0.00041	1	R_EINLQDYEGHQK.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2683	513.2770	1536.8093	1536.8024	4.50	0	56	0.0005	1	R_EINLQDYEGHQK.Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3218	445.2084	1776.8045	1776.7999	2.62	1	39	0.0053	1	K_MADEAGSEAHREGETR.N + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4059	444.4196	2217.0619	2217.0571	2.12	2	26	0.25	1	K_TYKMADEAGSEAHREGETR.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)

73. [IPI00137409](#) Mass: 68272 Score: 109 Queries matched: 10 emPAI: 0.35

Tax_Id=10090 Gene_Symbol=Tkt Transketolase

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 632	408.2542	814.4939	814.4912	3.32	0	28	0.22	1	K_LILDSAR.A + Dimethyl (N-term)
<input checked="" type="checkbox"/> 774	449.2811	896.5477	896.5443	3.77	0	54	0.00043	1	R_LAVSQVPR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/> 787	451.2935	900.5725	900.5695	3.36	0	(47)	0.0034	1	R_LAVSQVPR.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2025	440.9115	1319.7128	1319.7085	3.22	0	39	0.025	1	K_ISSDLGDGHPVPK.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2516	492.9541	1475.8404	1475.8348	3.81	1	29	0.25	1	R_KISSDLGDGHPVPK.Q + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2538	372.9859	1487.9146	1487.9101	3.03	1	(25)	0.37	1	R_KISSDLGDGHPVPK.Q + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2829	540.3158	1617.9256	1617.9164	5.67	1	42	0.012	1	K_MFGIDKDAIVQAVK.G + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2867	544.3411	1630.0014	1629.9917	5.91	1	(34)	0.039	1	K_MFGIDKDAIVQAVK.G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2882	545.6478	1633.9215	1633.9113	6.23	1	(37)	0.041	1	K_MFGIDKDAIVQAVK.G + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 3817	683.3768	2047.1087	2047.0949	6.73	0	35	0.071	1	K_ILATPPQEDAPSVDIANIR.M + Dimethyl (N-term)

74. [IPI00468203](#) Mass: 38937 Score: 107 Queries matched: 4 emPAI: 0.21

Tax_Id=10090 Gene_Symbol=Anxa2 Annexin A2

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 619	405.2937	808.5729	808.5696	4.05	0	32	0.031	1	K_LMVALAK .G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1327	372.2294	1113.6664	1113.6634	2.70	1	32	0.13	1	R_ELYDAGVKR .K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1898	636.8333	1271.6520	1271.6469	3.94	0	69	1.5e-005	1	R_TNQELQEINR .V + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1907	638.8461	1275.6777	1275.6721	4.44	0	(68)	2.6e-005	1	R_TNQELQEINR .V + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00605518](#) Mass: 32864 Score: 107 Queries matched: 4
Tax_Id=10090 Gene_Symbol=LOC100048867 similar to Annexin A2

75. [IPI00120030](#) Mass: 33673 Score: 104 Queries matched: 2 emPAI: 0.16
Tax_Id=10090 Gene_Symbol=Crym Mu-crystallin homolog

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3079	570.9683	1709.8831	1709.8737	5.55	0	68	2.8e-005	1	R_APAFLSAEEVQDHLR .S + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3090	572.3100	1713.9082	1713.8988	5.48	0	(68)	3.3e-005	1	R_APAFLSAEEVQDHLR .S + Dimethyl:2H(4) (N-term)

76. [IPI00874728](#) Mass: 32995 Score: 103 Queries matched: 7 emPAI: 0.57
Tax_Id=10090 Gene_Symbol=Tpm2 Isoform 2 of Tropomyosin beta chain

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1465	391.2202	1170.6387	1170.6356	2.64	1	44	0.0058	1	R_ARQLEELR .T + Dimethyl (N-term)
3173	585.9825	1754.9257	1754.9162	5.41	1	(38)	0.036	1	R_IQLVEEELDRAQER .L + Dimethyl (N-term)
3186	587.3243	1758.9512	1758.9413	5.60	1	56	0.00069	1	R_IQLVEEELDRAQER .L + Dimethyl:2H(4) (N-term)
3562	638.0165	1911.0277	1911.0173	5.44	2	31	0.21	1	R_RIQLVEEELDRAQER .L + Dimethyl (N-term)
4117	565.3049	2257.1904	2257.1801	4.56	2	(34)	0.087	1	R_LATALQKLEEAKEADESER .G + Dimethyl (K); Dimethyl (N-term)
4125	567.3176	2265.2414	2265.2303	4.90	2	(32)	0.14	1	R_LATALQKLEEAKEADESER .G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
4126	567.3177	2265.2417	2265.2303	5.04	2	47	0.0048	1	R_LATALQKLEEAKEADESER .G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00227918](#) Mass: 35175 Score: 103 Queries matched: 7
Tax_Id=10090 Gene_Symbol=Tpm2 Tpm2 protein

77. [IPI00114945](#) Mass: 41727 Score: 99 Queries matched: 3 emPAI: 0.13
Tax_Id=10090 Gene_Symbol=Sept2 Septin-2

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3298	606.0162	1815.0267	1815.0142	6.90	0	(60)	0.0002	1	K_ASIPFSVVGSNQLEAK .G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3299	606.0162	1815.0267	1815.0142	6.91	0	68	3.6e-005	1	K_ASIPFSVVGSNQLEAK .G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3332	608.6996	1823.0771	1823.0644	6.96	0	(42)	0.008	1	K_ASIPFSVVGSNQLEAK .G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

78. [IPI00377592](#) Mass: 145123 Score: 99 Queries matched: 3 emPAI: 0.05
Tax_Id=10090 Gene_Symbol=Sec31a SEC31-like 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2545	373.4477	1489.7618	1489.7572	3.06	0	52	0.00094	1	K _GRPGPVAGHSQMPR.V + Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2558	374.4540	1493.7867	1493.7823	2.94	0	(36)	0.041	1	K _GRPGPVAGHSQMPR.V + Dimethyl:2H(4) (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 4369	646.8604	2583.4125	2583.4046	3.08	1	70	1.9e-005	1	K _AQGKPVSGQESSQSPYERQPLSK.G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00807797](#) Mass: 38332 Score: 99 Queries matched: 3

Tax_Id=10090 Gene_Symbol=Sec31a Sec31a protein

[IPI00853859](#) Mass: 130509 Score: 99 Queries matched: 3

Tax_Id=10090 Gene_Symbol=Sec31a Isoform 2 of Protein transport protein Sec31A

79. [IPI00123494](#) Mass: 100937 Score: 99 Queries matched: 2 emPAI: 0.05
Tax_Id=10090 Gene_Symbol=Psm2 26S proteasome non-ATPase regulatory subunit 2

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2679	512.9770	1535.9091	1535.9035	3.65	0	68	2.5e-005	1	R _VGQAVDVVGQAGKPK.T + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2708	517.0018	1547.9837	1547.9789	3.09	0	(61)	5.9e-005	1	R _VGQAVDVVGQAGKPK.T + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

80. [IPI00653931](#) Mass: 46488 Score: 99 Queries matched: 1 emPAI: 0.06

Tax_Id=10090 Gene_Symbol=Fah Visual cortex cDNA, RIKEN full-length enriched library, clone:K430330E02 product:fumarylacetoacetate hydrolase, full insert sequence

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2218	693.8935	1385.7724	1385.7626	7.07	0	99	2.8e-008	1	R _ASLQNLLSASQAR.L + Dimethyl (N-term)

Proteins matching the same set of peptides:

[IPI00856685](#) Mass: 15678 Score: 99 Queries matched: 1

Tax_Id=10090 Gene_Symbol=Fah 16 kDa protein

[IPI00310035](#) Mass: 46416 Score: 99 Queries matched: 1

Tax_Id=10090 Gene_Symbol=Fah Fumarylacetoacetase

81. [IPI00230212](#) Mass: 26067 Score: 97 Queries matched: 6 emPAI: 0.46
Tax_Id=10090 Gene_Symbol=Gstml1 Glutathione S-transferase Mu 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1158	524.3284	1046.6423	1046.6386	3.56	0	32	0.11	1	K _ITQSNAILR.Y + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1264	548.3287	1094.6429	1094.6376	4.89	0	(28)	0.29	1	R _YIATPIFSK.M + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1290	552.3539	1102.6932	1102.6878	4.92	0	33	0.11	1	R _YIATPIFSK.M + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2321	711.8669	1421.7192	1421.7122	4.91	0	63	7e-005	1	R _ADIVENQVMDTR.M + Dimethyl:2H(4) (N-term)

- [3619](#) 655.0475 1962.1207 1962.1066 7.19 0 (45) 0.0067 1 [K_LGLDFPNLPYLIDGSHK.I](#) + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
- [3620](#) 655.0476 1962.1210 1962.1066 7.33 0 49 0.0024 1 [K_LGLDFPNLPYLIDGSHK.I](#) + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00649135](#) Mass: 28709 Score: 97 Queries matched: 6
 Tax_Id=10090 Gene_Symbol=Gstml1 Glutathione S-transferase, mu 1

82. [IPI00459570](#) Mass: 28993 Score: 95 Queries matched: 7 emPAI: 0.67
 Tax_Id=10090 Gene_Symbol=Tpm3 2 days neonate thymus thymic cells cDNA, RIKEN full-length enriched library, clone:C920030J24 product:tropomyosin 3, gamma, full inse
- Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2748	524.6113	1570.8120	1570.8063	3.63	1	27	0.34	1	R_AREQAEAEVASLNR.R + Dimethyl (N-term)
3173	585.9825	1754.9257	1754.9162	5.41	1	(38)	0.036	1	R_IQLVEEELDRAQER.L + Dimethyl (N-term)
3186	587.3243	1758.9512	1758.9413	5.60	1	56	0.00069	1	R_IQLVEEELDRAQER.L + Dimethyl:2H(4) (N-term)
3562	638.0165	1911.0277	1911.0173	5.44	2	31	0.21	1	R_RIQLVEEELDRAQER.L + Dimethyl (N-term)
4117	565.3049	2257.1904	2257.1801	4.56	2	(34)	0.087	1	R_LATALQKLEEAKEADESER.G + Dimethyl (K); Dimethyl (N-term)
4125	567.3176	2265.2414	2265.2303	4.90	2	(32)	0.14	1	R_LATALQKLEEAKEADESER.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
4126	567.3177	2265.2417	2265.2303	5.04	2	47	0.0048	1	R_LATALQKLEEAKEADESER.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00230044](#) Mass: 29231 Score: 95 Queries matched: 7
 Tax_Id=10090 Gene_Symbol=Tpm3 Isoform 2 of Tropomyosin alpha-3 chain

83. [IPI00129107](#) Mass: 36221 Score: 91 Queries matched: 2 emPAI: 0.15
 Tax_Id=10090 Gene_Symbol=Gipcl1 PDZ domain-containing protein GIPCL1
- Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2471	488.5845	1462.7316	1462.7277	2.65	0	60	0.00013	1	R_SAGGHPGSGPQLGTGR.G + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2477	489.9262	1466.7567	1466.7528	2.66	0	(57)	0.00029	1	R_SAGGHPGSGPQLGTGR.G + Dimethyl:2H(4) (N-term)

84. [IPI00309768](#) Mass: 36208 Score: 89 Queries matched: 2 emPAI: 0.15
 Tax_Id=10090 Gene_Symbol=Pdlim1 PDZ and LIM domain protein 1
- Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2420	724.8666	1447.7187	1447.7129	4.00	0	71	8.9e-006	1	R_SAMPFTASPAPSTR.V + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3029	562.6599	1684.9577	1684.9512	3.88	1	44	0.0091	1	R_LVGGKDFEQPLAISR.V + Dimethyl (K); Dimethyl (N-term)

85. [IPI00457659](#) Mass: 42719 Score: 88 Queries matched: 2 emPAI: 0.12
 Tax_Id=10090 Gene_Symbol=Serpina1 Leukocyte elastase inhibitor A
- Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
-------	----------	----------	----------	-----	------	-------	--------	------	---------

- [1827](#) 622.8746 1243.7347 1243.7264 6.70 0 71 1.5e-005 1 R_LGVQDLFSSSK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
- [2075](#) 445.5872 1333.7399 1333.7354 3.42 1 49 0.0028 1 R_FQSLNAEVSKR.G + Dimethyl (K); Dimethyl (N-term)

Proteins matching the same set of peptides:

[IPI00515459](#) Mass: 39195 Score: 88 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=Serpinbla 39 kDa protein

86. [IPI00111265](#) Mass: 33118 Score: 88 Queries matched: 4 emPAI: 0.25
 Tax_Id=10090 Gene_Symbol=Capza2 F-actin-capping protein subunit alpha-2

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1704	613.3706	1224.7267	1224.7190	6.32	0	47	0.0033	1	R_LLLNNDNLLR.E + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1752	615.3832	1228.7518	1228.7441	6.27	0	(33)	0.064	1	R_LLLNNDNLLR.E + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3933	711.7128	2132.1165	2132.0993	8.06	0	53	0.0011	1	K_FIIHAPPGEFNEVFNDVR.L + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3934	711.7129	2132.1167	2132.0993	8.18	0	(43)	0.011	1	K_FIIHAPPGEFNEVFNDVR.L + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00857651](#) Mass: 19660 Score: 88 Queries matched: 4
 Tax_Id=10090 Gene_Symbol=Capza2 20 kDa protein

87. [IPI00133605](#) Mass: 62612 Score: 87 Queries matched: 2 emPAI: 0.08
 Tax_Id=10090 Gene_Symbol=Pklr Pyruvate kinase isozymes R/L

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1570	599.3438	1196.6731	1196.6652	6.56	0	61	0.00015	1	R_GDLGIEIPAEK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1602	603.3688	1204.7230	1204.7155	6.26	0	(55)	0.00059	1	R_GDLGIEIPAEK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00407130](#) Mass: 58378 Score: 87 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=Pkm2 Isoform M2 of Pyruvate kinase isozymes M1/M2
[IPI00775829](#) Mass: 59126 Score: 87 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=Pklr pyruvate kinase liver and red blood cell isoform 2
[IPI00845840](#) Mass: 58461 Score: 87 Queries matched: 2
 Tax_Id=10090 Gene_Symbol=Pkm2 Isoform M1 of Pyruvate kinase isozymes M1/M2

88. [IPI00776343](#) Mass: 42969 Score: 86 Queries matched: 6 emPAI: 0.34
 Tax_Id=10090 Gene_Symbol=Ager RAGE

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1803	413.2496	1236.7270	1236.7230	3.21	0	33	0.081	1	K_KPPQQLEWK.L + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1837	417.2748	1248.8027	1248.7984	3.47	0	(32)	0.056	1	K_KPPQQLEWK.L + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2470	488.3052	1461.8937	1461.8892	3.11	1	37	0.026	1	R_RRPLNTAPIQLR.V + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2475	489.6470	1465.9193	1465.9143	3.40	1	(27)	0.18	1	R_RRPLNTAPIQLR.V + Dimethyl:2H(4) (N-term)

[2563](#) 748.9008 1495.7871 1495.7783 5.85 0 (51) 0.0014 1 K_VLSPQGGPWDSVAR.I + Dimethyl (N-term)
 [2575](#) 750.9150 1499.8154 1499.8035 7.97 0 58 0.00033 1 K_VLSPQGGPWDSVAR.I + Dimethyl:2H(4) (N-term)

89. [IPI00408119](#) Mass: 117927 Score: 85 Queries matched: 7 emPAI: 0.14

Tax_Id=10090 Gene_Symbol=Mtap4 Isoform 1 of Microtubule-associated protein 4

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1116	346.2198	1035.6374	1035.6350	2.32	0	47	0.0031	1	R_VKPMSAPSR.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1469	586.3530	1170.6914	1170.6860	4.62	0	(42)	0.01	1	R_LATTVSAPDLK.S + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1519	590.3781	1178.7416	1178.7362	4.54	0	48	0.0016	1	R_LATTVSAPDLK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3219	445.2937	1777.1458	1777.1404	3.03	0	28	0.046	1	R_TSPSKPSSAPALKPGPK.T + 3 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3572	482.2796	1925.0892	1925.0833	3.06	1	(32)	0.12	1	K_KTEAATTAGKPEPNAVTK.A + 3 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3598	486.3044	1941.1883	1941.1838	2.34	1	(28)	0.095	1	K_KTEAATTAGKPEPNAVTK.A + 3 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3599	486.3045	1941.1887	1941.1838	2.55	1	33	0.032	1	K_KTEAATTAGKPEPNAVTK.A + 3 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00848818](#) Mass: 117940 Score: 85 Queries matched: 7

Tax_Id=10090 Gene_Symbol=Mtap4 microtubule-associated protein 4

90. [IPI00421206](#) Mass: 36155 Score: 85 Queries matched: 2 emPAI: 0.15

Tax_Id=10090 Gene_Symbol=Kctd12 BTB/POZ domain-containing protein KCTD12

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3098	573.3112	1716.9117	1716.9060	3.34	0	61	0.00019	1	R_LGAPQQPGPGPPPHSR.R + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3105	574.6531	1720.9374	1720.9311	3.66	0	(56)	0.00055	1	R_LGAPQQPGPGPPPHSR.R + Dimethyl:2H(4) (N-term)

91. [IPI00459725](#) Mass: 40069 Score: 84 Queries matched: 2 emPAI: 0.13

Tax_Id=10090 Gene_Symbol=Idh3a Isoform 1 of Isocitrate dehydrogenase [NAD] subunit alpha, mitochondrial precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1271	549.3213	1096.6281	1096.6241	3.73	0	(55)	0.00057	1	R_NVTAIQGGGK.W + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1300	553.3464	1104.6782	1104.6743	3.54	0	57	0.00037	1	R_NVTAIQGGGK.W + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

92. [IPI00467447](#) Mass: 189437 Score: 84 Queries matched: 6 emPAI: 0.07

Tax_Id=10090 Gene_Symbol=Iqgap1 Ras GTPase-activating-like protein IQGAP1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 716	430.3011	858.5877	858.5840	4.31	0	42	0.0056	1	R_LIVDVIR.F + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 898	483.2787	964.5428	964.5382	4.80	0	32	0.085	1	K_LGNFFSPK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 918	487.3038	972.5931	972.5884	4.82	0	(27)	0.32	1	K_LGNFFSPK.V + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

<input checked="" type="checkbox"/>	1959	433.9186	1298.7340	1298.7306	2.60	1	(32)	0.12	1	K ₂ QLQSDLQQKR.Q + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	1990	436.6021	1306.7845	1306.7809	2.79	1	33	0.092	1	K ₂ QLQSDLQQKR.Q + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3568	641.6793	1922.0161	1922.0047	5.94	0	67	4.6e-005	1	R ₂ FALGISAINAEVDSGDVGR.T + Dimethyl:2H(4) (N-term)

93. [IPI00187462](#) Mass: 38362 Score: 83 Queries matched: 4 emPAI: 0.22

Tax_Id=10090 Gene_Symbol=Gimap4 GTPase, IMAP family member 4 isoform a

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<input checked="" type="checkbox"/>	3246	602.9778	1805.9117	1805.9020	5.38	0	41	0.014	1	R ₂ SSHELGNQDQGIPQLR.I + Dimethyl (N-term)
<input checked="" type="checkbox"/>	3278	604.3193	1809.9362	1809.9271	5.00	0	(29)	0.25	1	R ₂ SSHELGNQDQGIPQLR.I + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3915	702.4355	2104.2846	2104.2710	6.45	0	48	0.00086	1	R ₂ YVALTSPGPHALLLVVPLGR.Y + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	3916	702.4355	2104.2847	2104.2710	6.50	0	(43)	0.0024	1	R ₂ YVALTSPGPHALLLVVPLGR.Y + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00754464](#) Mass: 24767 Score: 83 Queries matched: 4

Tax_Id=10090 Gene_Symbol=Gimap4 GTPase IMAP family member 4

94. [IPI00420806](#) Mass: 54469 Score: 83 Queries matched: 2 emPAI: 0.10

Tax_Id=10090 Gene_Symbol=Dync1li2 Cytoplasmic dynein 1 light intermediate chain 2

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<input checked="" type="checkbox"/>	3069	567.6460	1699.9162	1699.9105	3.35	1	(47)	0.0046	1	K ₂ KTGSPGSPSAGGVQSTAK.K + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/>	3086	571.6711	1711.9914	1711.9858	3.27	1	68	2.6e-005	1	K ₂ KTGSPGSPSAGGVQSTAK.K + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

95. [IPI00118875](#) Mass: 73513 Score: 81 Queries matched: 3 emPAI: 0.11

Tax_Id=10090 Gene_Symbol=Eef1d eukaryotic translation elongation factor 1 delta isoform a

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<input checked="" type="checkbox"/>	2452	485.9286	1454.7640	1454.7602	2.63	0	(40)	0.017	1	R ₂ ATAPQTQHVSPMR.Q + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/>	2476	489.9185	1466.7337	1466.7300	2.54	0	52	0.00073	1	R ₂ ATAPQTQHVSPMR.Q + Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/>	2497	491.2603	1470.7591	1470.7551	2.72	0	(43)	0.0086	1	R ₂ ATAPQTQHVSPMR.Q + Dimethyl:2H(4) (N-term); Oxidation (M)

Proteins matching the same set of peptides:

[IPI00468771](#) Mass: 30730 Score: 81 Queries matched: 3

Tax_Id=10090 Gene_Symbol=Eef1d Eef1d protein

[IPI00515654](#) Mass: 31387 Score: 81 Queries matched: 3

Tax_Id=10090 Gene_Symbol=Eef1d eukaryotic translation elongation factor 1 delta isoform b

[IPI00620302](#) Mass: 28826 Score: 81 Queries matched: 3

Tax_Id=10090 Gene_Symbol=Eef1d Isoform 2 of Elongation factor 1-delta

[IPI00831082](#) Mass: 23158 Score: 81 Queries matched: 3

Tax_Id=10090 Gene_Symbol=Eef1d 23 kDa protein

[IPI00831202](#) Mass: 15722 Score: 81 Queries matched: 3

Tax_Id=10090 Gene_Symbol=Eef1d 16 kDa protein
[IPI00831299](#) Mass: 13160 Score: 81 Queries matched: 3
Tax_Id=10090 Gene_Symbol=Eef1d 13 kDa protein

96. [IPI00229510](#) Mass: 36834 Score: 81 Queries matched: 2 emPAI: 0.15

Tax_Id=10090 Gene_Symbol=Ldhb L-lactate dehydrogenase B chain

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1059	508.3129	1014.6112	1014.6073	3.80	0	(57)	0.00036	1	R_GLTSVINQK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1072	512.3378	1022.6610	1022.6576	3.35	0	58	0.00022	1	R_GLTSVINQK.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00280156](#) Mass: 36959 Score: 81 Queries matched: 2
Tax_Id=10090 Gene_Symbol=EG433229 hypothetical protein isoform 7

97. [IPI00138342](#) Mass: 61418 Score: 74 Queries matched: 2 emPAI: 0.09

Tax_Id=10090 Gene_Symbol=Esl Liver carboxylesterase N precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 4668	939.2121	3752.8193	3752.7819	9.97	1	57	0.00031	1	R_NGNPNGEGLPHWPEYDEKEGYLQIGATTQQAQR.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4672	941.2208	3760.8542	3760.8321	5.87	1	(50)	0.0017	1	R_NGNPNGEGLPHWPEYDEKEGYLQIGATTQQAQR.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00831484](#) Mass: 62500 Score: 74 Queries matched: 2
Tax_Id=10090 Gene_Symbol=LOC382044 liver carboxylesterase N-like

98. [IPI00119111](#) Mass: 36577 Score: 74 Queries matched: 4 emPAI: 0.23

Tax_Id=10090 Gene_Symbol=Cnn3 Calponin-3

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1442	582.3228	1162.6310	1162.6234	6.52	0	40	0.018	1	K_GPSYGLSAEVK.N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1467	586.3474	1170.6803	1170.6736	5.70	0	(26)	0.48	1	K_GPSYGLSAEVK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2299	472.9185	1415.7337	1415.7303	2.41	1	(39)	0.02	1	K_GASQAGMLAPGTRR.D + Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 2310	474.2603	1419.7592	1419.7554	2.65	1	53	0.00097	1	K_GASQAGMLAPGTRR.D + Dimethyl:2H(4) (N-term); Oxidation (M)

99. [IPI00377351](#) Mass: 45001 Score: 74 Queries matched: 6 emPAI: 0.25

Tax_Id=10090 Gene_Symbol=Apoa4;ENSMUSG00000074373 Apolipoprotein A-IV precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1435	580.3486	1158.6827	1158.6761	5.74	0	32	0.11	1	K_LQLTPYIQR.M + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1865	630.3636	1258.7127	1258.7034	7.46	0	60	0.00017	1	K_ALVQQLEQFR.Q + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2498	491.2687	1470.7844	1470.7790	3.65	1	(35)	0.066	1	K_ATIDQNLEDLRR.S + Dimethyl (N-term)

- [2513](#) 492.6105 1474.8097 1474.8041 3.76 1 39 0.029 1 [K_ATIDQNLEDLRR.S + Dimethyl:2H\(4\) \(N-term\)](#)
- [2541](#) 497.2655 1488.7746 1488.7685 4.11 1 29 0.21 1 [R_QLEQQVEEFRR.T + Dimethyl \(N-term\)](#)
- [2553](#) 498.6071 1492.7996 1492.7936 4.04 1 (28) 0.35 1 [R_QLEQQVEEFRR.T + Dimethyl:2H\(4\) \(N-term\)](#)

Proteins matching the same set of peptides:

[IPI00775913](#) Mass: 45001 Score: 74 Queries matched: 6
 Tax_Id=10090 Gene_Symbol=Apoa4;ENSMUSG00000074373 apolipoprotein A-IV

100. [IPI00336362](#) Mass: 55009 Score: 74 Queries matched: 3 emPAI: 0.15
 Tax_Id=10090 Gene_Symbol=Aldh1a7 Aldehyde dehydrogenase, cytosolic 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1651	609.3281	1216.6417	1216.6353	5.29	0	38	0.028	1	R_QAFQIGSPWR.T + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1684	611.3406	1220.6667	1220.6604	5.18	0	(33)	0.089	1	R_QAFQIGSPWR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3694	669.3423	2005.0050	2004.9917	6.62	0	53	0.00079	1	K_GFFVQPTVFSNVTDEMR.I + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00626662](#) Mass: 55060 Score: 74 Queries matched: 3
 Tax_Id=10090 Gene_Symbol=Aldh1a1 Retinal dehydrogenase 1

101. [IPI00317710](#) Mass: 95178 Score: 72 Queries matched: 1 emPAI: 0.03
 Tax_Id=10090 Gene_Symbol=Hspa4l Isoform 1 of Heat shock 70 kDa protein 4L

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2328	712.4122	1422.8098	1422.8020	5.46	0	72	1.3e-005	1	K_SIDLPIQSSLYR.Q + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00317711](#) Mass: 92935 Score: 72 Queries matched: 1
 Tax_Id=10090 Gene_Symbol=Hspa4l Isoform 2 of Heat shock 70 kDa protein 4L
[IPI00856856](#) Mass: 13575 Score: 72 Queries matched: 1
 Tax_Id=10090 Gene_Symbol=Hspa4l Protein

102. [IPI00116074](#) Mass: 86151 Score: 71 Queries matched: 6 emPAI: 0.13
 Tax_Id=10090 Gene_Symbol=Aco2 Aconitate hydratase, mitochondrial precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 508	380.7537	759.4929	759.4905	3.20	0	26	0.32	1	K_NINIVR.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1277	550.3081	1098.6017	1098.5971	4.19	0	27	0.25	1	K_NTIVTSYNR.N + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2560	748.4111	1494.8077	1494.7980	6.49	0	25	0.63	1	K_SQFTITPGSEQIR.A + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3545	634.3319	1899.9737	1899.9628	5.73	0	37	0.042	1	K_IVYGHLDLDPANQEIER.G + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3822	683.7342	2048.1807	2048.1695	5.46	1	(31)	0.12	1	R_AKDINQEVYNFLATAGAK.Y + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3823	683.7343	2048.1809	2048.1695	5.56	1	57	0.00034	1	R_AKDINQEVYNFLATAGAK.Y + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

103. [IPI00114017](#) Mass: 50192 Score: 71 Queries matched: 2 emPAI: 0.11
Tax_Id=10090 Gene_Symbol=Anxa7 Annexin A7

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2981	557.2635	1668.7687	1668.7638	2.95	0	(42)	0.0029	1	R_QSVNHQMAQEDAQR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2985	558.6052	1672.7937	1672.7889	2.88	0	51	0.00057	1	R_QSVNHQMAQEDAQR.L + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00461322](#) Mass: 44896 Score: 71 Queries matched: 2

Tax_Id=10090 Gene_Symbol=Anxa7 Adult male medulla oblongata cDNA, RIKEN full-length enriched library, clone:6330545A10 product:annexin A7, full insert sequence

[IPI00653636](#) Mass: 52503 Score: 71 Queries matched: 2

Tax_Id=10090 Gene_Symbol=Anxa7 Adult male medulla oblongata cDNA, RIKEN full-length enriched library, clone:6330438J06 product:annexin A7, full insert sequence

104. [IPI00125143](#) Mass: 42270 Score: 70 Queries matched: 1 emPAI: 0.06
Tax_Id=10090 Gene_Symbol=Arpc1b Arpc1b protein

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3040	564.9735	1691.8987	1691.8930	3.38	0	70	2e-005	1	K_ASSEGGAAATGAGLDSLHK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00462975](#) Mass: 41757 Score: 70 Queries matched: 1

Tax_Id=10090 Gene_Symbol=EG434782 hypothetical protein

[IPI00857408](#) Mass: 11306 Score: 70 Queries matched: 1

Tax_Id=10090 Gene_Symbol=Arpc1b Protein

[IPI00874737](#) Mass: 41921 Score: 70 Queries matched: 1

Tax_Id=10090 Gene_Symbol=Arpc1b Actin-related protein 2/3 complex subunit 1B

105. [IPI00133903](#) Mass: 73768 Score: 70 Queries matched: 2 emPAI: 0.07
Tax_Id=10090 Gene_Symbol=Hspa9 Stress-70 protein, mitochondrial precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3225	594.3187	1779.9342	1779.9268	4.16	1	(48)	0.0041	1	R_QAVTNPNNTFYATKR.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3231	597.0021	1787.9846	1787.9770	4.25	1	53	0.0013	1	R_QAVTNPNNTFYATKR.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

106. [IPI00230682](#) Mass: 28183 Score: 68 Queries matched: 3 emPAI: 0.30
Tax_Id=10090 Gene_Symbol=Ywhab Isoform Long of 14-3-3 protein beta/alpha

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 910	486.3246	970.6347	970.6303	4.62	0	32	0.063	1	R_NLLSVAYK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2853	542.9305	1625.7697	1625.7645	3.22	0	(47)	0.0016	1	K_AVTEQGHELSNEER.N + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2862	544.2721	1629.7945	1629.7896	2.97	0	53	0.00056	1	K_AVTEQGHELSNEER.N + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00750790](#) Mass: 18394 Score: 68 Queries matched: 3
Tax_Id=10090 Gene_Symbol=Ywhab Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta
[IPI00760000](#) Mass: 27951 Score: 68 Queries matched: 3
Tax_Id=10090 Gene_Symbol=Ywhab Isoform Short of 14-3-3 protein beta/alpha

107. [IPI00115528](#) Mass: 71210 Score: 68 Queries matched: 2 emPAI: 0.07
Tax_Id=10090 Gene_Symbol=Pls3 Plastin 3

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2659	765.9017	1529.7889	1529.7759	8.49	0	(42)	0.01	1	K_MINLSVPTIDER.A + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2676	767.9132	1533.8119	1533.8010	7.06	0	52	0.0013	1	K_MINLSVPTIDER.A + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00118892](#) Mass: 70732 Score: 68 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Lcp1 Plastin-2
[IPI00776023](#) Mass: 72214 Score: 68 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Pls3 Plastin 3
[IPI00874762](#) Mass: 71732 Score: 68 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Pls3 13 days embryo liver cDNA, RIKEN full-length enriched library, clone:I920006B08 product:plastin 3 (T-isoform), full insert sequence

108. [IPI00124264](#) Score: 66 Queries matched: 1
Tax_Id=10090 Gene_Symbol=Anxall Annexin All

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input type="checkbox"/> 1299	553.3267	1104.6388	1104.6328	5.37	0	66	5.7e-005	1	R_SELDLDIR.A + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00848382](#) Score: 66 Queries matched: 1
[IPI00849293](#) Score: 66 Queries matched: 1

109. [IPI00226430](#) Mass: 42288 Score: 64 Queries matched: 4 emPAI: 0.19
Tax_Id=10090 Gene_Symbol=Acaa2 3-ketoacyl-CoA thiolase, mitochondrial

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 739	434.8108	867.6070	867.6033	4.17	0	43	0.0026	1	R_GVFIVAAR.R + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4278	610.0705	2436.2527	2436.2431	3.95	0	(30)	0.23	1	K_QTMQVDEHARPQTTLQQLQK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4279	610.0709	2436.2546	2436.2431	4.72	0	38	0.038	1	K_QTMQVDEHARPQTTLQQLQK.L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4499	676.6194	2702.4484	2702.4351	4.92	1	28	0.36	1	K_ALDLDPSTNVSQGAIALGHPLGGSGSR.I + Dimethyl (K); Dimethyl (N-term)

Proteins matching the same set of peptides:

[IPI00653158](#) Mass: 42260 Score: 64 Queries matched: 4

110. [IPI00313222](#) Mass: 33546 Score: 64 Queries matched: 2 emPAI: 0.16

Tax_Id=10090 Gene_Symbol=Rpl6 60S ribosomal protein L6

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1475	586.8456	1171.6767	1171.6713	4.62	0	(39)	0.023	1	K ₂ AVPQLQGYLR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1499	588.8591	1175.7036	1175.6964	6.07	0	50	0.0019	1	K ₂ AVPQLQGYLR.S + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

- [IPI00378933](#) Mass: 13643 Score: 64 Queries matched: 2
Tax_Id=10090 Gene_Symbol=EG383462 similar to ribosomal protein L6
- [IPI00457852](#) Mass: 34930 Score: 64 Queries matched: 2
Tax_Id=10090 Gene_Symbol=EG432502 similar to ribosomal protein L6
- [IPI00626312](#) Mass: 33518 Score: 64 Queries matched: 2
Tax_Id=10090 Gene_Symbol=EG620213 similar to ribosomal protein L6
- [IPI00750333](#) Mass: 33429 Score: 64 Queries matched: 2
Tax_Id=10090 Gene_Symbol=EG627889 similar to ribosomal protein L6 isoform 1
- [IPI00848644](#) Mass: 32313 Score: 64 Queries matched: 2
Tax_Id=10090 Gene_Symbol=EG627889 similar to ribosomal protein L6 isoform 2

111. [IPI00228253](#) Mass: 41727 Score: 64 Queries matched: 2 emPAI: 0.06

Tax_Id=10090 Gene_Symbol=Acat2 Acetyl-CoA acetyltransferase, cytosolic

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2644	507.9676	1520.8811	1520.8762	3.23	1	64	8.1e-005	1	R ₂ EAQDKVAVLSQNR.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4060	444.4610	2217.2686	2217.2619	3.04	2	32	0.094	1	R ₂ EAQDKVAVLSQNR.AEHAQK.A + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

- [IPI00330685](#) Mass: 41895 Score: 64 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Acat3 Acetyl CoA transferase-like protein
- [IPI00776358](#) Mass: 41900 Score: 64 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Acat3 acetyl-Coenzyme A acetyltransferase 3

112. [IPI00283862](#) Mass: 29813 Score: 63 Queries matched: 2 emPAI: 0.18

Tax_Id=10090 Gene_Symbol=Psmal Proteasome subunit alpha type-1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 4232	599.0397	2392.1296	2392.1216	3.34	2	(42)	0.0061	1	R ₂ KAQPSQAAEPEAEKADPEMEH.- + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)
<input checked="" type="checkbox"/> 4242	602.0583	2404.2040	2404.1969	2.96	2	54	0.00071	1	R ₂ KAQPSQAAEPEAEKADPEMEH.- + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term); Oxidation (M)

113. [IPI00310240](#) Mass: 75697 Score: 63 Queries matched: 1 emPAI: 0.03

Tax_Id=10090 Gene_Symbol=Anxa6 13 days embryo forelimb cDNA, RIKEN full-length enriched library, clone:5930413M14 product:annexin A6, full insert sequence

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3149	581.6619	1741.9638	1741.9512	7.19	0	63	0.00012	1	K_GIGTDEATIIVTHR.S + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00554894](#) Mass: 76295 Score: 63 Queries matched: 1
Tax_Id=10090 Gene_Symbol=Anxa6 Annexin A6
[IPI00649152](#) Mass: 76294 Score: 63 Queries matched: 1
Tax_Id=10090 Gene_Symbol=Anxa6 Bone marrow macrophage cDNA, RIKEN full-length enriched library, clone:G530123A09 product:annexin A6, full insert sequence
[IPI00875218](#) Mass: 76208 Score: 63 Queries matched: 1
Tax_Id=10090 Gene_Symbol=Anxa6 76 kDa protein

114. [IPI00116645](#) Mass: 33506 Score: 62 Queries matched: 2 emPAI: 0.16
Tax_Id=10090 Gene_Symbol=Cnn1 Isoform Alpha of Calponin-1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1826	622.8587	1243.7029	1243.6958	5.66	0	(42)	0.013	1	R_NIIGLQMGTK.F + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1848	626.8844	1251.7542	1251.7460	6.55	0	44	0.0072	1	R_NIIGLQMGTK.F + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00228258](#) Mass: 29250 Score: 62 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Cnn1 Isoform Beta of Calponin-1

115. [IPI00221817](#) Mass: 87829 Score: 62 Queries matched: 2 emPAI: 0.06
Tax_Id=10090 Gene_Symbol=Loh11cr2a Loss of heterozygosity 11 chromosomal region 2 gene A protein homolog

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1572	599.3749	1196.7353	1196.7281	6.04	0	54	0.00058	1	R_YLLPAILNPR.Y + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1586	601.3872	1200.7599	1200.7532	5.55	0	(32)	0.062	1	R_YLLPAILNPR.Y + Dimethyl:2H(4) (N-term)

116. [IPI00312058](#) Mass: 60013 Score: 61 Queries matched: 3 emPAI: 0.13
Tax_Id=10090 Gene_Symbol=Cat Catalase

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3015	561.2923	1680.8551	1680.8481	4.12	1	42	0.011	1	K_RFNSANEDNVTQVR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4548	721.3897	2881.5297	2881.5080	7.55	1	47	0.0039	1	R_ASQRPDVLTGGGNPIGDKLNIMTAGSR.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4550	723.4017	2889.5778	2889.5582	6.79	1	(26)	0.37	1	R_ASQRPDVLTGGGNPIGDKLNIMTAGSR.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00869393](#) Mass: 60043 Score: 61 Queries matched: 3
Tax_Id=10090 Gene_Symbol=Cat catalase

117. [IPI00114894](#) Mass: 227743 Score: 60 Queries matched: 2 emPAI: 0.02

Tax_Id=10090 Gene_Symbol=Myh11 Isoform 1 of Myosin-11

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 874	477.3112	952.6078	952.6044	3.48	0	32	0.081	1	K_STVAALEAK.I + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3233	597.6956	1790.0650	1790.0542	6.07	0	55	0.00039	1	K_QLLQANPILEAFGNAK.T + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00227865](#) Mass: 223983 Score: 60 Queries matched: 2

Tax_Id=10090 Gene_Symbol=Myh11 Isoform 2 of Myosin-11

[IPI00876408](#) Mass: 227864 Score: 60 Queries matched: 2

Tax_Id=10090 Gene_Symbol=Myh11 Myh11 protein

118. [IPI00124287](#) Mass: 70826 Score: 59 Queries matched: 1 emPAI: 0.04

Tax_Id=10090 Gene_Symbol=Pabpc1 Polyadenylate-binding protein 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2314	474.5816	1420.7230	1420.7183	3.29	0	59	0.00021	1	R_QAHLTNQYMQR.M + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00331552](#) Mass: 70854 Score: 59 Queries matched: 1

Tax_Id=10090 Gene_Symbol=Pabpc1 Bone marrow macrophage cDNA, RIKEN full-length enriched library, clone:I830046M23 product:poly A binding protein, cytoplasmic 1, fu

119. [IPI00119667](#) Mass: 50764 Score: 58 Queries matched: 7 emPAI: 0.16

Tax_Id=10090 Gene_Symbol=Eef1a2 Elongation factor 1-alpha 2

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 906	485.8203	969.6261	969.6223	3.92	0	(31)	0.091	1	R_QTVAVGVIK.N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 907	485.8205	969.6265	969.6223	4.37	0	(27)	0.25	1	R_QTVAVGVIK.N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 930	489.8456	977.6766	977.6725	4.20	0	35	0.025	1	R_QTVAVGVIK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 931	489.8456	977.6766	977.6725	4.20	0	(28)	0.13	1	R_QTVAVGVIK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1183	527.3262	1052.6379	1052.6342	3.48	0	(32)	0.1	1	K_IGGIGTVPVGR.V + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1184	527.3266	1052.6387	1052.6342	4.25	0	38	0.02	1	K_IGGIGTVPVGR.V + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1206	529.3393	1056.6640	1056.6594	4.42	0	(33)	0.083	1	K_IGGIGTVPVGR.V + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00307837](#) Mass: 50424 Score: 58 Queries matched: 7

Tax_Id=10090 Gene_Symbol=Eef1a1 Elongation factor 1-alpha 1

120. [IPI00420882](#) Mass: 118937 Score: 57 Queries matched: 3 emPAI: 0.07

Tax_Id=10090 Gene_Symbol=Ogdh Isoform 4 of 2-oxoglutarate dehydrogenase E1 component, mitochondrial precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1342	560.7875	1119.5605	1119.5560	4.01	0	39	0.012	1	R ₂ SSPYPTDVAR.V + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1353	562.8001	1123.5857	1123.5811	4.07	0	(38)	0.017	1	R ₂ SSPYPTDVAR.V + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3087	571.9473	1712.8202	1712.8130	4.16	0	29	0.11	1	R ₂ TSFDEMLPGTHFQR.V + Dimethyl:2H(4) (N-term); Oxidation (M)

Proteins matching the same set of peptides:

[IPI00626237](#) Mass: 117572 Score: 57 Queries matched: 3
Tax_Id=10090 Gene_Symbol=Ogdh Isoform 1 of 2-oxoglutarate dehydrogenase E1 component, mitochondrial precursor
[IPI00719841](#) Mass: 117208 Score: 57 Queries matched: 3
Tax_Id=10090 Gene_Symbol=Ogdh Isoform 2 of 2-oxoglutarate dehydrogenase E1 component, mitochondrial precursor
[IPI00845652](#) Mass: 119301 Score: 57 Queries matched: 3
Tax_Id=10090 Gene_Symbol=Ogdh Isoform 3 of 2-oxoglutarate dehydrogenase E1 component, mitochondrial precursor

121. [IPI00129225](#) Mass: 48951 Score: 57 Queries matched: 3 emPAI: 0.11
Tax_Id=10090 Gene_Symbol=Kng1 Isoform LMW of Kininogen-1 precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3589	647.0034	1937.9882	1937.9806	3.93	2	47	0.004	1	K ₂ AGAEPAPERQAESSQVKQ.- + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3604	649.6862	1946.0367	1946.0309	3.02	2	(32)	0.13	1	K ₂ AGAEPAPERQAESSQVKQ.- + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3605	649.6863	1946.0372	1946.0309	3.26	2	(35)	0.073	1	K ₂ AGAEPAPERQAESSQVKQ.- + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00857103](#) Mass: 48940 Score: 57 Queries matched: 3
Tax_Id=10090 Gene_Symbol=Kng2 kininogen 2 isoform 2

122. [IPI00119114](#) Mass: 48277 Score: 57 Queries matched: 2 emPAI: 0.11
Tax_Id=10090 Gene_Symbol=Acadl Long-chain specific acyl-CoA dehydrogenase, mitochondrial precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1635	606.3754	1210.7363	1210.7285	6.46	0	(36)	0.044	1	K ₂ QGLLGINIAEK.H + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1672	610.4009	1218.7872	1218.7787	6.96	0	47	0.0015	1	K ₂ QGLLGINIAEK.H + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

123. [IPI00115833](#) Mass: 96676 Score: 57 Queries matched: 2 emPAI: 0.03
Tax_Id=10090 Gene_Symbol=Mtap6 microtubule-associated protein 6 isoform 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3980	543.0380	2168.1227	2168.1073	7.10	1	27	0.42	1	K.NQGLAGPELVKDTGTDTTAPR.Y + Dimethyl (K)
<input checked="" type="checkbox"/> 4330	495.0500	2470.2135	2470.2061	3.00	2	57	0.00032	1	R ₂ RSEGHEQTPAAHAQGTGPEGGKGR.A + Dimethyl (K); Dimethyl (N-term)

124. [IPI00622946](#) Mass: 109360 Score: 57 Queries matched: 3 emPAI: 0.02
Tax_Id=10090 Gene_Symbol=Palld Isoform 4 of Palladin

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2123	675.3737	1348.7328	1348.7238	6.65	0	26	0.44	1	R_YAALSDQGLDIK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 4147	765.4199	2293.2377	2293.2253	5.43	1	(38)	0.034	1	R_IASDEEIQGTKDAVIQDLER.K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4148	765.4199	2293.2379	2293.2253	5.52	1	50	0.0025	1	R_IASDEEIQGTKDAVIQDLER.K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

IPI00756702	Mass: 73567	Score: 57	Queries matched: 3
Tax_Id=10090 Gene_Symbol=Palld Isoform 5 of Palladin			
IPI00856302	Mass: 151999	Score: 57	Queries matched: 3
Tax_Id=10090 Gene_Symbol=Palld Isoform 6 of Palladin			
IPI00856926	Mass: 72950	Score: 57	Queries matched: 3
Tax_Id=10090 Gene_Symbol=Palld Isoform 3 of Palladin			
IPI00858000	Mass: 153576	Score: 57	Queries matched: 3
Tax_Id=10090 Gene_Symbol=Palld Isoform 1 of Palladin			

125. [IPI00271262](#) Mass: 163691 Score: 55 Queries matched: 2 emPAI: 0.03
Tax_Id=10090 Gene_Symbol=Mug2 Murinoglobulin-2 precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
438	352.7277	703.4408	703.4381	3.91	0	38	0.017	1	K_ALGFRLR.A + Dimethyl (N-term)
2868	544.6272	1630.8597	1630.8752	-9.52	0	51	0.0015	1	R_AHFSVMGDILSSAIK.N + Dimethyl (K); Dimethyl (N-term)

Proteins matching the same set of peptides:

IPI00420891	Mass: 163807	Score: 55	Queries matched: 2
Tax_Id=10090 Gene_Symbol=Mug4 Murinoglobulin-4 precursor			

126. [IPI00124692](#) Mass: 37534 Score: 54 Queries matched: 5 emPAI: 0.39
Tax_Id=10090 Gene_Symbol=Taldol1 Transaldolase

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 704	427.7906	853.5666	853.5637	3.47	0	34	0.038	1	K_LAPALSVK.A + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 731	431.8156	861.6166	861.6139	3.09	0	(32)	0.023	1	K_LAPALSVK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2011	656.8497	1311.6849	1311.6798	3.89	0	27	0.27	1	K_SYEPQEDPGVK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2113	449.2796	1344.8170	1344.8129	3.05	2	40	0.016	1	R_KFAADAIKLER.M + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2136	453.3047	1356.8923	1356.8882	3.03	2	(29)	0.064	1	R_KFAADAIKLER.M + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

127. [IPI00117730](#) Mass: 71270 Score: 54 Queries matched: 1 emPAI: 0.04
Tax_Id=10090 Gene_Symbol=Gbp3 Guanylate-binding protein 4

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2382	480.2291	1437.6655	1437.6608	3.27	0	54	0.00019	1	K_AADHYSEQMAQR.M + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00225190](#) Mass: 72046 Score: 54 Queries matched: 1
Tax_Id=10090 Gene_Symbol=BC057170 CDNA sequence BC057170
[IPI00454028](#) Mass: 73188 Score: 54 Queries matched: 1
Tax_Id=10090 Gene_Symbol=Gbp6 guanylate binding protein 7
[IPI00660746](#) Mass: 70997 Score: 54 Queries matched: 1
Tax_Id=10090 Gene_Symbol=EG634650 70 kDa protein
[IPI00675360](#) Mass: 71694 Score: 54 Queries matched: 1
Tax_Id=10090 Gene_Symbol=EG634650 Predicted
[IPI00751212](#) Mass: 70977 Score: 54 Queries matched: 1
Tax_Id=10090 Gene_Symbol=Mpa2l Mpa2l protein
[IPI00853773](#) Mass: 70926 Score: 54 Queries matched: 1
Tax_Id=10090 Gene_Symbol=EG634650 Guanylate-binding protein 10
[IPI00875535](#) Mass: 71048 Score: 54 Queries matched: 1
Tax_Id=10090 Gene_Symbol=Mpa2l 71 kDa protein

128. [IPI00230706](#) Mass: 28980 Score: 54 Queries matched: 2 emPAI: 0.19
Tax_Id=10090 Gene_Symbol=Pgam2 Phosphoglycerate mutase 2

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1515	393.5729	1177.6967	1177.6931	3.06	0	(44)	0.0082	1	R_VLIAAHGNSLR.G + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1529	394.9146	1181.7218	1181.7182	3.04	0	44	0.0062	1	R_VLIAAHGNSLR.G + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00457898](#) Mass: 28928 Score: 54 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Pgam1 Phosphoglycerate mutase 1

129. [IPI00127596](#) Mass: 43246 Score: 53 Queries matched: 4 emPAI: 0.19
Tax_Id=10090 Gene_Symbol=Ckm Creatine kinase M-type

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 847	472.2775	942.5404	942.5370	3.64	0	39	0.025	1	K_LMVEMEK.K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1358	563.8547	1125.6948	1125.6885	5.57	0	30	0.18	1	K_VLTPDLYNK.L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 3255	603.3235	1806.9486	1806.9403	4.61	0	40	0.026	1	K_LNYPQEEYDLSK.H + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3309	607.3486	1819.0241	1819.0157	4.63	0	(28)	0.38	1	K_LNYPQEEYDLSK.H + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

130. [IPI00322312](#) Mass: 23450 Score: 53 Queries matched: 2 emPAI: 0.23
Tax_Id=10090 Gene_Symbol=Arhgdia Rho GDP-dissociation inhibitor 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3628	658.6758	1973.0057	1972.9953	5.28	1	44	0.0082	1	K_SIQEIQLDKDDESLR.K + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3640	661.3589	1981.0550	1981.0455	4.80	1	(34)	0.099	1	K_SIQEIQLDKDDESLR.K + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

131. [IPI00353727](#) Mass: 36252 Score: 53 Queries matched: 2 emPAI: 0.15

Tax_Id=10090 Gene_Symbol=Anxa4 Annexin A4

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2772	528.2760	1581.8062	1581.8012	3.17	1	53	0.00086	1	R_RINQTYQQQYGR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2778	529.6175	1585.8307	1585.8263	2.80	1	(31)	0.14	1	R_RINQTYQQQYGR.S + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00473555](#) Mass: 22028 Score: 53 Queries matched: 2

Tax_Id=10090 Gene_Symbol=Anxa4 Truncated annexin IV

[IPI00830586](#) Mass: 28755 Score: 53 Queries matched: 2

Tax_Id=10090 Gene_Symbol=Anxa4 29 kDa protein

132. [IPI00230108](#) Mass: 57099 Score: 52 Queries matched: 1 emPAI: 0.05

Tax_Id=10090 Gene_Symbol=Pdia3 Protein disulfide-isomerase A3 precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1924	427.9443	1280.8112	1280.8067	3.47	1	52	0.00052	1	K_LSKDPNIVIAK.M + 2 Dimethyl (K); Dimethyl (N-term)

133. [IPI00462934](#) Mass: 77218 Score: 52 Queries matched: 3 emPAI: 0.10

Tax_Id=10090 Gene_Symbol=Khsrp Far upstream element-binding protein 2

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 872	476.2921	950.5697	950.5662	3.75	0	(37)	0.033	1	R_HSVGVVIGR.S + Dimethyl (N-term)
<input checked="" type="checkbox"/> 879	478.3047	954.5948	954.5913	3.71	0	37	0.029	1	R_HSVGVVIGR.S + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1272	549.3371	1096.6596	1096.6543	4.89	0	32	0.1	1	R_VGGGIDVPVPR.H + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00876559](#) Mass: 68960 Score: 52 Queries matched: 3

Tax_Id=10090 Gene_Symbol=Khsrp KH type splicing regulatory protein KSRP

134. [IPI00224626](#) Mass: 50959 Score: 52 Queries matched: 2 emPAI: 0.10

Tax_Id=10090 Gene_Symbol=Sept7 cell division cycle 10 homolog

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1825	415.5676	1243.6809	1243.6772	2.97	1	(42)	0.014	1	K_LKDSEAEIQR.R + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1845	418.2509	1251.7308	1251.7274	2.73	1	43	0.0088	1	K_LKDSEAEIQR.R + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00874440](#) Mass: 50860 Score: 52 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Sept7 Septin-7

135. [IPI00116498](#) Mass: 27925 Score: 51 Queries matched: 2 emPAI: 0.19
Tax_Id=10090 Gene_Symbol=Ywhaz 14-3-3 protein zeta/delta

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input type="checkbox"/> 910	486.3246	970.6347	970.6303	4.62	0	32	0.063	1	R_NLLSVAYK.N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2188	459.2805	1374.8195	1374.8148	3.46	1	51	0.0014	1	R_YLAEVAAGDDKK.G + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00853851](#) Mass: 24370 Score: 51 Queries matched: 2
Tax_Id=10090 Gene_Symbol=LOC100047236 similar to 14-3-3 zeta

136. [IPI00308885](#) Mass: 61088 Score: 50 Queries matched: 2 emPAI: 0.04
Tax_Id=10090 Gene_Symbol=Hspd1 Isoform 1 of 60 kDa heat shock protein, mitochondrial precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 886	479.3046	956.5946	956.5906	4.20	0	33	0.084	1	K_LSDGVAVLK.V + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2408	482.6011	1444.7814	1444.7773	2.82	1	50	0.0023	1	K_VGGTSDVEVNEKK.D + 2 Dimethyl (K); Dimethyl (N-term)

Proteins matching the same set of peptides:

[IPI00461249](#) Mass: 61188 Score: 50 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Hspd1 similar to Heat shock protein 1

[IPI00845678](#) Mass: 27112 Score: 50 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Hspd1 Isoform 2 of 60 kDa heat shock protein, mitochondrial precursor

137. [IPI00314191](#) Mass: 30907 Score: 46 Queries matched: 2 emPAI: 0.08
Tax_Id=10090 Gene_Symbol=Cbr1 Carbonyl reductase [NADPH] 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1003	499.7871	997.5597	997.5556	4.11	0	46	0.0031	1	K_LQAEGLSPR.F + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1032	501.7994	1001.5843	1001.5807	3.58	0	(34)	0.084	1	K_LQAEGLSPR.F + Dimethyl:2H(4) (N-term)

138. [IPI00378438](#) Mass: 202911 Score: 45 Queries matched: 2 emPAI: 0.03
Tax_Id=10090 Gene_Symbol=Tns1 tensin 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 843	471.7650	941.5154	941.5120	3.57	0	38	0.018	1	R_SYVESVAR.T + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 4184	585.5518	2338.1782	2338.1679	4.40	1	37	0.038	1	R_GLNSWQQQPHPPRQQR.S + Dimethyl (N-term)

139. [IPI00118678](#) Mass: 60930 Score: 45 Queries matched: 2 emPAI: 0.09

Tax_Id=10090 Gene_Symbol=Tcp1 T-complex protein 1 subunit alpha A

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2792	399.7137	1594.8259	1594.8215	2.71	1	(40)	0.016	1	R_AFHNEAQVNP <small>ERK</small> .N + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2804	401.7263	1602.8763	1602.8718	2.81	1	41	0.02	1	R_AFHNEAQVNP <small>ERK</small> .N + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00459493](#) Mass: 60867 Score: 45 Queries matched: 2

Tax_Id=10090 Gene_Symbol=Tcp1 Isoform 1 of T-complex protein 1 subunit alpha B

[IPI00845611](#) Mass: 55880 Score: 45 Queries matched: 2

Tax_Id=10090 Gene_Symbol=Tcp1 Isoform 2 of T-complex protein 1 subunit alpha B

140. [IPI00223253](#) Mass: 51230 Score: 45 Queries matched: 2 emPAI: 0.10

Tax_Id=10090 Gene_Symbol=Hnrpk Isoform 1 of Heterogeneous nuclear ribonucleoprotein K

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 817	465.2894	928.5642	928.5593	5.25	0	39	0.025	1	K_DLAGSIIGK.G + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 832	469.3146	936.6147	936.6095	5.53	0	(32)	0.097	1	K_DLAGSIIGK.G + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00224575](#) Mass: 51281 Score: 45 Queries matched: 2

Tax_Id=10090 Gene_Symbol=Hnrpk Isoform 2 of Heterogeneous nuclear ribonucleoprotein K

[IPI00465574](#) Mass: 51259 Score: 45 Queries matched: 2

Tax_Id=10090 Gene_Symbol=Hnrpk Bone marrow macrophage cDNA, RIKEN full-length enriched library, clone:I830091E20 product:heterogeneous nuclear ribonucleoprotein K,

[IPI00761237](#) Mass: 51186 Score: 45 Queries matched: 2

Tax_Id=10090 Gene_Symbol=- 51 kDa protein

[IPI00875420](#) Mass: 48664 Score: 45 Queries matched: 2

Tax_Id=10090 Gene_Symbol=- 48 kDa protein

141. [IPI00115679](#) Mass: 109791 Score: 45 Queries matched: 3 emPAI: 0.02

Tax_Id=10090 Gene_Symbol=Ganab Isoform 2 of Neutral alpha-glucosidase AB precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1009	500.8139	999.6132	999.6077	5.55	0	45	0.006	1	R_SLLLSVNAR.G + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3057	566.3208	1695.9406	1695.9308	5.76	1	30	0.24	1	R_YRVPDVLVADPPTAR.L + Dimethyl (N-term)
<input checked="" type="checkbox"/> 3070	567.6622	1699.9647	1699.9559	5.18	1	(25)	0.61	1	R_YRVPDVLVADPPTAR.L + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00403058](#) Mass: 107300 Score: 45 Queries matched: 3

Tax_Id=10090 Gene_Symbol=Ganab Isoform 1 of Neutral alpha-glucosidase AB precursor

142. [IPI00751017](#) Score: 43 Queries matched: 3

Tax_Id=10090 Gene_Symbol=A230067G21Rik 99 kDa protein

 Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
1245	543.2912	1084.5678	1084.5779	-9.31	0	40	0.011	2	_ <u>MFASWLFK</u> .A + Dimethyl (K); Dimethyl (N-term)
1259	547.3163	1092.6181	1092.6282	-9.19	0	(26)	0.43	2	_ <u>MFASWLFK</u> .A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
1260	547.3163	1092.6181	1092.6282	-9.19	0	(37)	0.033	2	_ <u>MFASWLFK</u> .A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

IPI00756343	Score: 43	Queries matched: 3
IPI00845657	Score: 43	Queries matched: 3

143. [IPI00109600](#) Mass: 48308 Score: 43 Queries matched: 2 emPAI: 0.05

Tax_Id=10090 Gene_Symbol=2410004A20Rik ES cells cDNA, RIKEN full-length enriched library, clone:2410004A20 product:hypothetical Alanine-rich region containing prot

 Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3160	582.9787	1745.9143	1745.9055	5.01	1	(28)	0.36	1	R_ <u>MKLMEIEALEAGVER</u> .R + Dimethyl (K)
<input checked="" type="checkbox"/> 3161	873.9658	1745.9171	1745.9055	6.62	1	43	0.0099	1	R_ <u>MKLMEIEALEAGVER</u> .R + Dimethyl (N-term)

Proteins matching the same set of peptides:

IPI00874395	Mass: 45827	Score: 43	Queries matched: 2
Tax_Id=10090 Gene_Symbol=- OEPP48 variant			

144. [IPI00136703](#) Mass: 42971 Score: 43 Queries matched: 2 emPAI: 0.12

Tax_Id=10090 Gene_Symbol=Ckb Creatine kinase B-type

 Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2064	666.3866	1330.7587	1330.7496	6.84	0	(32)	0.13	1	K_ <u>VLTPELYAELR</u> .A + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2082	668.3992	1334.7839	1334.7747	6.88	0	39	0.026	1	K_ <u>VLTPELYAELR</u> .A + Dimethyl:2H(4) (N-term)

145. [IPI00154054](#) Mass: 45129 Score: 43 Queries matched: 3 emPAI: 0.06

Tax_Id=10090 Gene_Symbol=Acat1 Acetyl-CoA acetyltransferase, mitochondrial precursor

 Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3120	577.6645	1729.9717	1729.9614	5.95	0	40	0.023	1	R_ <u>TPIGSFLGSLASQPATK</u> .L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3121	577.6645	1729.9718	1729.9614	6.01	0	(36)	0.053	1	R_ <u>TPIGSFLGSLASQPATK</u> .L + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 3141	580.3477	1738.0211	1738.0117	5.46	0	(33)	0.08	1	R_ <u>TPIGSFLGSLASQPATK</u> .L + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

146. [IPI00172328](#) Mass: 544766 Score: 43 Queries matched: 1 emPAI: 0.00

Tax_Id=10090 Gene_Symbol=Dnahc8 Isoform 1 of Ciliary dynein heavy chain 8

 Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
2868	544.6272	1630.8597	1630.8712	-7.05	1	43	0.011	3	R.RSMTGIPNLQETLK.E + Dimethyl (K); Oxidation (M)

Proteins matching the same set of peptides:

[IPI00652480](#) Score: 43 Queries matched: 1
[IPI00750189](#) Mass: 483380 Score: 43 Queries matched: 1
Tax_Id=10090 Gene_Symbol=Dnahc8 Isoform 2 of Ciliary dynein heavy chain 8

147. [IPI00229988](#) Mass: 98458 Score: 42 Queries matched: 2 emPAI: 0.05
Tax_Id=10090 Gene_Symbol=Eif2c2 Eukaryotic translation initiation factor 2C 2

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1560	398.8922	1193.6547	1193.6517	2.55	0	(34)	0.067	1	K ₂ AVQVHQDTLR.T + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1577	400.2339	1197.6800	1197.6768	2.69	0	38	0.028	1	K ₂ AVQVHQDTLR.T + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00229989](#) Mass: 98236 Score: 42 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Eif2c1 Eukaryotic translation initiation factor 2C 1

148. [IPI00553798](#) Mass: 604664 Score: 42 Queries matched: 2 emPAI: 0.01
Tax_Id=10090 Gene_Symbol=Ahnak AHNAK nucleoprotein isoform 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2850	542.3188	1623.9347	1623.9269	4.80	1	37	0.04	1	K ₂ ISMFDIDLNLKGPV.V + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2892	546.3442	1636.0109	1636.0023	5.26	1	(35)	0.029	1	K ₂ ISMFDIDLNLKGPV.V + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

149. [IPI00348328](#) Mass: 114018 Score: 42 Queries matched: 1 emPAI: 0.02
Tax_Id=10090 Gene_Symbol=Krt78 keratin Kb40

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3052	565.6494	1693.9264	1693.9151	6.66	1	42	0.015	1	R ₂ SLNNQFASFIDKVR.F + Dimethyl (K); Dimethyl (N-term)

150. [IPI00469952](#) Mass: 147823 Score: 42 Queries matched: 5 emPAI: 0.04
Tax_Id=10090 Gene_Symbol=Prx Isoform 1 of Periaxin

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 745	435.3030	868.5915	868.5874	4.80	0	26	0.2	1	K ₂ FTISLPK.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 1317	371.2336	1110.6791	1110.6761	2.72	1	29	0.17	1	K ₂ LSKVPEVQR.K + Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 1802	413.2462	1236.7168	1236.7118	4.06	1	30	0.18	1	K ₂ GTEFSFKLPK.M + 2 Dimethyl (K); Dimethyl (N-term)
<input checked="" type="checkbox"/> 2217	462.2575	1383.7507	1383.7470	2.69	1	44	0.0074	1	R ₂ VREVAEEAQVAR.M + Dimethyl (N-term)
<input checked="" type="checkbox"/> 2225	463.5994	1387.7764	1387.7721	3.06	1	(33)	0.096	1	R ₂ VREVAEEAQVAR.M + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00762284](#) Mass: 147780 Score: 42 Queries matched: 5

Tax_Id=10090 Gene_Symbol=Prx Prx protein

151. [IPI00119818](#) Mass: 100375 Score: 41 Queries matched: 1 emPAI: 0.03

Tax_Id=10090 Gene_Symbol=Itih4 Adult male liver cDNA, RIKEN full-length enriched library, clone:1300004A21 product:inter alpha-trypsin inhibitor, heavy chain 4, fu

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1967	434.2854	1299.8344	1299.8304	3.06	0	41	0.0064	1	R_FKPTLSQQQK.S + 2 Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00312711](#) Mass: 104774 Score: 41 Queries matched: 1

Tax_Id=10090 Gene_Symbol=Itih4 PK-120

152. [IPI00125971](#) Mass: 44430 Score: 41 Queries matched: 1 emPAI: 0.06

Tax_Id=10090 Gene_Symbol=Psmc6 26S protease regulatory subunit S10B

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2657	509.9301	1526.7686	1526.7627	3.88	1	41	0.0095	1	R_FSEGTSADREIQR.T + Dimethyl:2H(4) (N-term)

153. [IPI00110588](#) Mass: 67839 Score: 41 Queries matched: 3 emPAI: 0.04

Tax_Id=10090 Gene_Symbol=Msn Moesin

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1056	508.2765	1014.5385	1014.5345	3.90	0	41	0.01	1	R_ALELEQER.K + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1063	510.2891	1018.5637	1018.5596	4.00	0	(31)	0.13	1	R_ALELEQER.K + Dimethyl:2H(4) (N-term)
<input checked="" type="checkbox"/> 2767	395.7314	1578.8964	1578.8929	2.24	2	32	0.12	1	K_KAQQELEEQTRR.A + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

154. [IPI00116283](#) Mass: 61162 Score: 41 Queries matched: 1 emPAI: 0.04

Tax_Id=10090 Gene_Symbol=Cct3 T-complex protein 1 subunit gamma

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1537	395.5806	1183.7200	1183.7165	2.96	0	41	0.017	1	R_EIQVQHPPAAK.S + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

155. [IPI00116281](#) Mass: 58424 Score: 40 Queries matched: 1 emPAI: 0.04

Tax_Id=10090 Gene_Symbol=Cct6a T-complex protein 1 subunit zeta

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
-------	----------	----------	----------	-----	------	-------	--------	------	---------

[653](#) 416.7648 831.5151 831.5116 4.14 0 40 0.012 1 [R_GLQDVL.R + Dimethyl:2H\(4\) \(N-term\)](#)

156. [IPI00408258](#) Mass: 174129 Score: 40 Queries matched: 1 emPAI: 0.01

Tax_Id=10090 Gene_Symbol=Btbd12 BTB (POZ) domain containing 12

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
2600	503.3082	1506.9028	1506.8894	8.87	1	40	0.015	2	K.NLPPKVPITPMR.Y + Dimethyl:2H(4) (K); Oxidation (M)

157. [IPI00330476](#) Mass: 146801 Score: 40 Queries matched: 1 emPAI: 0.02

Tax_Id=10090 Gene_Symbol=Cyfipl Isoform 1 of Cytoplasmic FMR1-interacting protein 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2198	690.3730	1378.7314	1378.7245	5.02	0	40	0.019	1	R_TVLPFSQEFQR.D + Dimethyl (N-term)

Proteins matching the same set of peptides:

[IPI00831544](#) Mass: 146537 Score: 40 Queries matched: 1

Tax_Id=10090 Gene_Symbol=Cyfipl Isoform 2 of Cytoplasmic FMR1-interacting protein 1

158. [IPI00315948](#) Mass: 27654 Score: 40 Queries matched: 1 emPAI: 0.09

Tax_Id=10090 Gene_Symbol=Tbcb Tubulin folding cofactor B

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3058	566.3300	1695.9682	1695.9606	4.47	1	40	0.022	1	R_LSEKQAQSAISVGS.R + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

159. [IPI00458583](#) Mass: 88661 Score: 39 Queries matched: 1 emPAI: 0.03

Tax_Id=10090 Gene_Symbol=Hnrnpu Osteoclast-like cell cDNA, RIKEN full-length enriched library, clone:I420039N16 product: heterogeneous nuclear ribonucleoprotein U,

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 3148	581.6559	1741.9458	1741.9363	5.47	0	39	0.029	1	K_SSGPTSLFAVTVAPPGAR.Q + Dimethyl (N-term)

160. [IPI00223224](#) Mass: 14508 Score: 38 Queries matched: 1 emPAI: 0.18

Tax_Id=10090 Gene_Symbol=D130079A08Rik 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library, clone:D130079A08 product: hypothetical protein, full

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 816	465.2616	928.5087	928.5090	-0.30	0	38	0.017	1	R_SSEVARPR.R + Dimethyl (N-term)

161. [IPI00762122](#) Mass: 464816 Score: 38 Queries matched: 1 emPAI: 0.01

Tax_Id=10090 Gene_Symbol=- 462 kDa protein

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
2868	544.6272	1630.8597	1630.8575	1.37	1	38	0.036	4	K_MPARFLPQLPMDK.L + Dimethyl (K); Dimethyl (N-term); 2 Oxidation (M)

162. [IPI00121892](#) Mass: 251741 Score: 37 Queries matched: 2 emPAI: 0.02

Tax_Id=10090 Gene_Symbol=Spnb2 Isoform 2 of Spectrin beta chain, brain 1

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1002	499.3134	996.6123	996.6080	4.29	0	(29)	0.14	1	R_VAVVNQIAR.Q + Dimethyl (N-term)
<input checked="" type="checkbox"/> 1031	501.3258	1000.6371	1000.6331	3.93	0	36	0.034	1	R_VAVVNQIAR.Q + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00319830](#) Mass: 274908 Score: 37 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Spnb2 Isoform 1 of Spectrin beta chain, brain 1

[IPI00831369](#) Mass: 244840 Score: 37 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Spnb2 MKIAA4049 protein

163. [IPI00762403](#) Mass: 147882 Score: 36 Queries matched: 1 emPAI: 0.02

Tax_Id=10090 Gene_Symbol=Usp31 ubiquitin specific protease 31

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
3105	574.6531	1720.9374	1720.9546	-9.98	1	36	0.049	2	-_MSKVTAPGPGPPVAAGGK.E + 2 Dimethyl (K); Dimethyl (N-term); Oxidation (M)

164. [IPI00126072](#) Mass: 43297 Score: 36 Queries matched: 1 emPAI: 0.06

Tax_Id=10090 Gene_Symbol=Vat1 Synaptic vesicle membrane protein VAT-1 homolog

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1830	623.4023	1244.7901	1244.7832	5.60	1	36	0.026	1	K_VLLVPGPEKET.- + Dimethyl:2H(4) (K); Dimethyl:2H(4) (N-term)

165. [IPI00402968](#) Mass: 61307 Score: 35 Queries matched: 1 emPAI: 0.04

Tax_Id=10090 Gene_Symbol=Ehd2 13 days embryo forelimb cDNA, RIKEN full-length enriched library, clone:5930429A15 product:EH DOMAIN-CONTAINING PROTEIN-2 homolog

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2063	444.5876	1330.7411	1330.7357	4.05	0	35	0.059	1	K_LEGHGLPTNLPR.R + Dimethyl (N-term)

166. [IPI00461360](#) Mass: 110460 Score: 35 Queries matched: 1 emPAI: 0.02

Tax_Id=10090 Gene_Symbol=Ccdc39 Coiled-coil domain-containing protein 39

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1228	359.2197	1074.6372	1074.6284	8.14	2	35	0.059	1	R.SEKELSKAK.A + 2 Dimethyl (K)

167. [IPI00131395](#) Mass: 96752 Score: 35 Queries matched: 2 emPAI: 0.03
Tax_Id=10090 Gene_Symbol=Znf512b MKIAA1196 protein

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 717	430.7651	859.5157	859.5239	-9.54	2	35	0.041	1	K.SLSGGKKR.G + Dimethyl (N-term)
<input checked="" type="checkbox"/> 733	432.7777	863.5409	863.5490	-9.47	2	(28)	0.21	1	K.SLSGGKKR.G + Dimethyl:2H(4) (N-term)

Proteins matching the same set of peptides:

[IPI00756808](#) Mass: 121307 Score: 35 Queries matched: 2
Tax_Id=10090 Gene_Symbol=Znf512b similar to mKIAA1196 protein

168. [IPI00120274](#) Mass: 44661 Score: 34 Queries matched: 1 emPAI: 0.06
Tax_Id=10090 Gene_Symbol=Npcd;Cbx6 Chromobox protein homolog 6

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 2822	539.3262	1614.9567	1614.9569	-0.12	2	34	0.056	1	K.TFLLKARAQAEALR.I + Dimethyl (N-term)

Proteins matching the same set of peptides:

[IPI00420763](#) Mass: 73456 Score: 34 Queries matched: 1
Tax_Id=10090 Gene_Symbol=Cbx6 Neuronal pentraxin with chromo domain
[IPI00464339](#) Mass: 52546 Score: 34 Queries matched: 1
Tax_Id=10090 Gene_Symbol=Cbx6 Neuronal pentraxin 1.4 kb variant
[IPI00751159](#) Mass: 73521 Score: 34 Queries matched: 1
Tax_Id=10090 Gene_Symbol=Npcd 73 kDa protein
[IPI00757836](#) Mass: 52483 Score: 34 Queries matched: 1
Tax_Id=10090 Gene_Symbol=Npcd neuronal pentraxin with chromo domain isoform 2
[IPI00776097](#) Mass: 15514 Score: 34 Queries matched: 1
Tax_Id=10090 Gene_Symbol=Cbx6;Npcd 15 kDa protein

169. [IPI00132700](#) Mass: 21773 Score: 34 Queries matched: 1 emPAI: 0.12
Tax_Id=10090 Gene_Symbol=Mrpl35 39S ribosomal protein L35, mitochondrial precursor

Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> 1185	351.8892	1052.6457	1052.6455	0.25	2	34	0.046	1	R.KTVKSVVHR.F

Search Parameters

Type of search : MS/MS Ion Search
 Enzyme : Trypsin
 Fixed modifications : Carbamidomethyl (C)
 Variable modifications : Dimethyl (K),Dimethyl (N-term),Dimethyl:2H(4) (K),Dimethyl:2H(4) (N-term),Oxidation (M)
 Mass values : Monoisotopic
 Protein Mass : Unrestricted
 Peptide Mass Tolerance : ± 10 ppm
 Fragment Mass Tolerance: ± 0.9 Da
 Instrument type : Default
 Number of queries : 4680

Figure S4, Raijmakers et al.

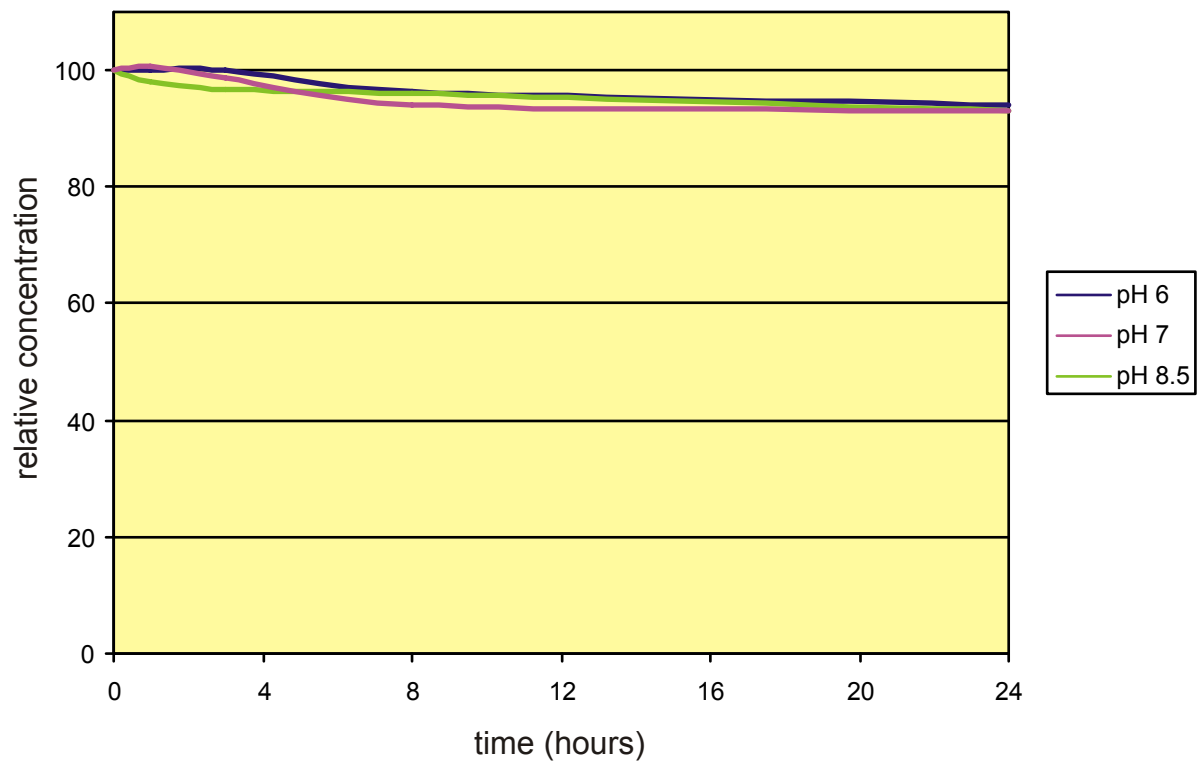


Figure S5, Raijmakers et al.

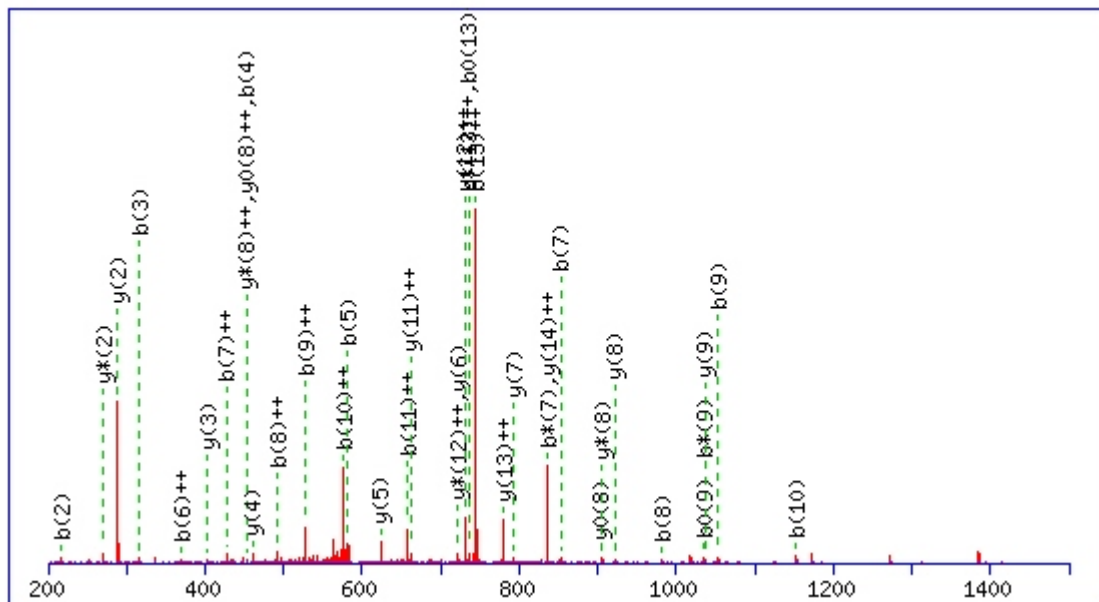
PSME2, peptide **ALVHERDEAVYGLR**

Monoisotopic mass of neutral peptide Mr(calc): 1773.9311

Variable modifications: N-term : Dimethyl:2H(4) (N-term)

Ions Score: 48 **Expect:** 0.00031

Matches (Bold Red): 39/146 fragment ions using 84 most intense peaks



071206_RR_05g #3978 RT: 49.14 AV: 1 NL: 2.12E4
T: ITMS + c NSI d Full ms2 592.32@cid35.00 [150.00-1790.00]

