

## Mascot Search Results

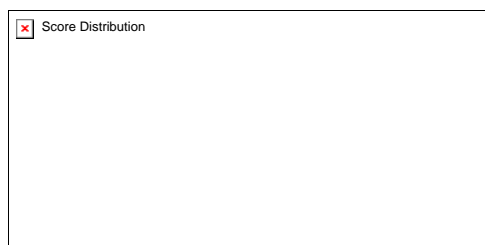
User : Dominic  
 Email : dominic.kurian@bbsrc.ac.uk  
 Search title : IPI Mouse\_15-02-2010  
 MS data file : D:\Peaklist\Dominic Kurian\QToF\DK20010806 GATC P 0010884.pk1  
 Database : IPI\_mouse MOUSE\_v3\_79 (54943 sequences; 24917557 residues)  
 Timestamp : 15 Feb 2011 at 15:26:16 GMT  
 Protein hits : [IPI00420725](#) Tax\_Id=10090 Gene\_Symbol=Camk2a Uncharacterized protein  
[IPI00875723](#) Tax\_Id=10090 Gene\_Symbol=Camk2b 68 kDa protein  
[IPI00112584](#) Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit  
[IPI00608020](#) Tax\_Id=10090 Gene\_Symbol=Ftl1 ferritin light chain 1  
[IPI00347110](#) Tax\_Id=10090 Gene\_Symbol=Krt73 Keratin, type II cytoskeletal 73  
[IPI00625729](#) Tax\_Id=10090 Gene\_Symbol=Krt1 Keratin, type II cytoskeletal 1  
[IPI00222228](#) Tax\_Id=10090 Gene\_Symbol=4732456N10Rik hypothetical protein LOC239673  
[IPI00138892](#) Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin-60S ribosomal protein L40  
[IPI00874682](#) Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00223714](#) Tax\_Id=10090 Gene\_Symbol=Hist1hle Histone H1.4

### IPI\_mouse [Decoy](#) False discovery rate

Peptide matches above identity threshold	65	0	0.00 %
Peptide matches above homology or identity threshold	75	0	0.00 %

### 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 > 37 indicate identity or extensive homology ( $p < 0.01$ ).  
 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  $p < 0.01$  Max. number of hits [AUTO](#)  
 Standard scoring  MudPIT scoring  Ions score or expect cut-off  Show sub-sets   
 Show pop-ups  Suppress pop-ups  Sort unassigned [Decreasing Score](#) Require bold red

Error tolerant

1. [IPI00420725](#) Mass: 55882 Score: 1043 Queries matched: 83 emPAI: 0.33

Tax\_Id=10090 Gene\_Symbol=Camk2a Uncharacterized 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"/> <a href="#">105</a>	463.2481	924.4816	924.4777	4.26	1	2	39	1	R.DHQKLER.E
<input checked="" type="checkbox"/> <a href="#">183</a>	574.3185	1146.6224	1146.6431	-17.98	0	(0)	75	3	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">184</a>	574.3212	1146.6278	1146.6431	-13.27	0	(39)	0.0084	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">190</a>	574.3264	1146.6382	1146.6431	-4.20	0	(35)	0.022	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">191</a>	574.3266	1146.6386	1146.6431	-3.85	0	(36)	0.016	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">192</a>	574.3272	1146.6398	1146.6431	-2.81	0	(42)	0.0034	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">193</a>	574.3276	1146.6406	1146.6431	-2.11	0	(51)	0.00041	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">195</a>	574.3278	1146.6410	1146.6431	-1.76	0	(47)	0.0012	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">197</a>	574.3286	1146.6426	1146.6431	-0.36	0	(12)	3.8	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">198</a>	574.3288	1146.6430	1146.6431	-0.02	0	(42)	0.0031	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">199</a>	574.3290	1146.6434	1146.6431	0.33	0	(54)	0.0002	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">200</a>	574.3296	1146.6446	1146.6431	1.38	0	64	2.3e-005	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">201</a>	574.3298	1146.6450	1146.6431	1.73	0	(45)	0.0018	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">202</a>	574.3300	1146.6454	1146.6431	2.08	0	(64)	2.2e-005	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">203</a>	574.3303	1146.6460	1146.6431	2.60	0	(45)	0.0017	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">204</a>	574.3303	1146.6460	1146.6431	2.60	0	(25)	0.18	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">205</a>	574.3306	1146.6466	1146.6431	3.12	0	(39)	0.0056	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">207</a>	574.3308	1146.6470	1146.6431	3.47	0	(48)	0.00072	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">208</a>	574.3308	1146.6470	1146.6431	3.47	0	(50)	0.00047	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">209</a>	574.3309	1146.6472	1146.6431	3.65	0	(42)	0.0033	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">212</a>	574.3314	1146.6482	1146.6431	4.52	0	(35)	0.014	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">213</a>	574.3317	1146.6488	1146.6431	5.04	0	(31)	0.035	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">214</a>	574.3324	1146.6502	1146.6431	6.26	0	(26)	0.12	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">242</a>	631.2996	1260.5846	1260.5927	-6.42	0	(46)	0.0014	1	R.FYFENLWSR.N
<input checked="" type="checkbox"/> <a href="#">243</a>	631.3040	1260.5934	1260.5927	0.56	0	(48)	0.001	1	R.FYFENLWSR.N
<input checked="" type="checkbox"/> <a href="#">244</a>	631.3043	1260.5940	1260.5927	1.04	0	57	0.00013	1	R.FYFENLWSR.N

<input checked="" type="checkbox"/>	<a href="#">246</a>	631.3052	1260.5958	1260.5927	2.46	0	(23)	0.31	1	R.FYFENLWSR.N
<input checked="" type="checkbox"/>	<a href="#">247</a>	631.3057	1260.5968	1260.5927	3.26	0	(42)	0.0042	1	R.FYFENLWSR.N
<input checked="" type="checkbox"/>	<a href="#">248</a>	631.3059	1260.5972	1260.5927	3.57	0	(48)	0.001	1	R.FYFENLWSR.N
<input checked="" type="checkbox"/>	<a href="#">249</a>	631.3065	1260.5984	1260.5927	4.53	0	(4)	31	1	R.FYFENLWSR.N
<input checked="" type="checkbox"/>	<a href="#">250</a>	631.3067	1260.5988	1260.5927	4.84	0	(44)	0.0027	1	R.FYFENLWSR.N
<input checked="" type="checkbox"/>	<a href="#">273</a>	652.3435	1302.6724	1302.6932	-15.92	0	(8)	12	1	R.ITQYLDAGGIPR.T
<input checked="" type="checkbox"/>	<a href="#">274</a>	652.3566	1302.6986	1302.6932	4.19	0	(53)	0.00039	1	R.ITQYLDAGGIPR.T
<input checked="" type="checkbox"/>	<a href="#">275</a>	652.3569	1302.6992	1302.6932	4.65	0	(39)	0.0089	1	R.ITQYLDAGGIPR.T
<input checked="" type="checkbox"/>	<a href="#">276</a>	652.3579	1302.7012	1302.6932	6.18	0	59	8e-005	1	R.ITQYLDAGGIPR.T
<input checked="" type="checkbox"/>	<a href="#">277</a>	652.3600	1302.7054	1302.6932	9.41	0	(55)	0.0002	1	R.ITQYLDAGGIPR.T
<input checked="" type="checkbox"/>	<a href="#">297</a>	670.8989	1339.7832	1339.7711	9.09	0	2	19	6	R.DLKPENLLASK.L
<input checked="" type="checkbox"/>	<a href="#">491</a>	816.8908	1631.7670	1631.7719	-2.96	0	(36)	0.014	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">492</a>	816.8912	1631.7678	1631.7719	-2.47	0	(47)	0.0011	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">494</a>	816.8917	1631.7688	1631.7719	-1.86	0	(52)	0.00042	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">495</a>	816.8923	1631.7700	1631.7719	-1.12	0	(31)	0.046	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">496</a>	816.8926	1631.7706	1631.7719	-0.76	0	(44)	0.0028	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">497</a>	816.8933	1631.7720	1631.7719	0.10	0	(54)	0.00023	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">498</a>	816.8933	1631.7720	1631.7719	0.10	0	(37)	0.011	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">499</a>	816.8934	1631.7722	1631.7719	0.22	0	(54)	0.00027	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">500</a>	816.8934	1631.7722	1631.7719	0.22	0	(27)	0.13	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">502</a>	816.8936	1631.7726	1631.7719	0.47	0	(70)	5.6e-006	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">503</a>	816.8936	1631.7726	1631.7719	0.47	0	(55)	0.00021	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">504</a>	816.8936	1631.7726	1631.7719	0.47	0	(27)	0.12	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">505</a>	816.8938	1631.7730	1631.7719	0.72	0	(73)	2.8e-006	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">506</a>	816.8939	1631.7732	1631.7719	0.84	0	74	2.8e-006	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">507</a>	816.8943	1631.7740	1631.7719	1.33	0	(59)	8.2e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">509</a>	816.8944	1631.7742	1631.7719	1.45	0	(54)	0.00027	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">510</a>	816.8944	1631.7742	1631.7719	1.45	0	(56)	0.00014	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">511</a>	816.8944	1631.7742	1631.7719	1.45	0	(63)	3.2e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">512</a>	816.8945	1631.7744	1631.7719	1.57	0	(62)	4.3e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">513</a>	816.8946	1631.7746	1631.7719	1.70	0	(63)	3.1e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">515</a>	816.8948	1631.7750	1631.7719	1.94	0	(51)	0.00047	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">516</a>	816.8951	1631.7756	1631.7719	2.31	0	(48)	0.00096	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">517</a>	816.8954	1631.7762	1631.7719	2.68	0	(71)	5.3e-006	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">518</a>	816.8955	1631.7764	1631.7719	2.80	0	(37)	0.014	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">519</a>	816.8956	1631.7766	1631.7719	2.92	0	(9)	8	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">520</a>	816.8956	1631.7766	1631.7719	2.92	0	(22)	0.43	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">523</a>	816.8964	1631.7782	1631.7719	3.90	0	(20)	0.61	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">524</a>	816.8965	1631.7784	1631.7719	4.02	0	(48)	0.00099	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">525</a>	816.8968	1631.7790	1631.7719	4.39	0	(50)	0.00064	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">526</a>	816.8972	1631.7798	1631.7719	4.88	0	(3)	35	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">527</a>	816.8974	1631.7802	1631.7719	5.13	0	(57)	0.00014	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">528</a>	816.8977	1631.7808	1631.7719	5.50	0	(2)	44	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">529</a>	816.8980	1631.7814	1631.7719	5.86	0	(41)	0.005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">530</a>	816.8983	1631.7820	1631.7719	6.23	0	(20)	0.63	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">531</a>	816.8991	1631.7836	1631.7719	7.21	0	(63)	3.1e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">532</a>	816.8991	1631.7836	1631.7719	7.21	0	(1)	57	4	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">533</a>	816.8996	1631.7846	1631.7719	7.82	0	(52)	0.00037	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">534</a>	816.9014	1631.7882	1631.7719	10.0	0	(41)	0.0058	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">535</a>	816.9016	1631.7886	1631.7719	10.3	0	(38)	0.011	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">598</a>	1040.9820	2079.9494	2079.9426	3.32	0	32	0.027	1	K.AGAYDFPSPWDVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">599</a>	1040.9830	2079.9514	2079.9426	4.28	0	(9)	6	1	K.AGAYDFPSPWDVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">602</a>	1040.9895	2079.9644	2079.9426	10.5	0	(17)	1.1	1	K.AGAYDFPSPWDVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">623</a>	715.3424	2143.0054	2143.0321	-12.46	0	(14)	1.7	1	K.VTEQLIEAISNGDFESYTK.M
<input checked="" type="checkbox"/>	<a href="#">625</a>	715.3448	2143.0126	2143.0321	-9.10	0	(43)	0.0023	1	K.VTEQLIEAISNGDFESYTK.M
<input checked="" type="checkbox"/>	<a href="#">626</a>	715.3478	2143.0216	2143.0321	-4.90	0	63	2.4e-005	1	K.VTEQLIEAISNGDFESYTK.M
<input checked="" type="checkbox"/>	<a href="#">629</a>	1072.5308	2143.0470	2143.0321	6.99	0	(22)	0.35	1	K.VTEQLIEAISNGDFESYTK.M

## Proteins matching the same set of peptides:

[IPI00621806](#) Mass: 54651 Score: 1043 Queries matched: 83

Tax\_id=10090 Gene\_Symbol=Camk2a Isoform Alpha CaMKII of Calcium/calmodulin-dependent protein kinase type II subunit alpha

2. [IPI00875723](#) Mass: 68686 Score: 313 Queries matched: 44 emPAI: 0.32

Tax\_id=10090 Gene\_Symbol=Camk2b 68 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
<a href="#">105</a>	463.2481	924.4816	924.4777	4.26	1	2	39	1	R.DHOKLER.E
<a href="#">183</a>	574.3185	1146.6224	1146.6431	-17.98	0	(0)	75	3	K.GAILTTMLATR.N
<a href="#">184</a>	574.3212	1146.6278	1146.6431	-13.27	0	(39)	0.0084	1	K.GAILTTMLATR.N
<a href="#">190</a>	574.3264	1146.6382	1146.6431	-4.20	0	(35)	0.022	1	K.GAILTTMLATR.N
<a href="#">191</a>	574.3266	1146.6386	1146.6431	-3.85	0	(36)	0.016	1	K.GAILTTMLATR.N
<a href="#">192</a>	574.3272	1146.6398	1146.6431	-2.81	0	(42)	0.0034	1	K.GAILTTMLATR.N
<a href="#">193</a>	574.3276	1146.6406	1146.6431	-2.11	0	(51)	0.00041	1	K.GAILTTMLATR.N
<a href="#">195</a>	574.3278	1146.6410	1146.6431	-1.76	0	(47)	0.0012	1	K.GAILTTMLATR.N
<a href="#">197</a>	574.3286	1146.6426	1146.6431	-0.36	0	(12)	3.8	1	K.GAILTTMLATR.N
<a href="#">198</a>	574.3288	1146.6430	1146.6431	-0.02	0	(42)	0.0031	1	K.GAILTTMLATR.N
<a href="#">199</a>	574.3290	1146.6434	1146.6431	0.33	0	(54)	0.0002	1	K.GAILTTMLATR.N
<a href="#">200</a>	574.3296	1146.6446	1146.6431	1.38	0	64	2.3e-005	1	K.GAILTTMLATR.N
<a href="#">201</a>	574.3298	1146.6450	1146.6431	1.73	0	(45)	0.0018	1	K.GAILTTMLATR.N
<a href="#">202</a>	574.3300	1146.6454	1146.6431	2.08	0	(64)	2.2e-005	1	K.GAILTTMLATR.N
<a href="#">203</a>	574.3303	1146.6460	1146.6431	2.60	0	(45)	0.0017	1	K.GAILTTMLATR.N
<a href="#">204</a>	574.3303	1146.6460	1146.6431	2.60	0	(25)	0.18	1	K.GAILTTMLATR.N

<a href="#">205</a>	574.3306	1146.6466	1146.6431	3.12	0	(39)	0.0056	1	K.GAILTTMLATR.N
<a href="#">207</a>	574.3308	1146.6470	1146.6431	3.47	0	(48)	0.00072	1	K.GAILTTMLATR.N
<a href="#">208</a>	574.3308	1146.6470	1146.6431	3.47	0	(50)	0.00047	1	K.GAILTTMLATR.N
<a href="#">209</a>	574.3309	1146.6472	1146.6431	3.65	0	(42)	0.0033	1	K.GAILTTMLATR.N
<a href="#">212</a>	574.3314	1146.6482	1146.6431	4.52	0	(35)	0.014	1	K.GAILTTMLATR.N
<a href="#">213</a>	574.3317	1146.6488	1146.6431	5.04	0	(31)	0.035	1	K.GAILTTMLATR.N
<a href="#">214</a>	574.3324	1146.6502	1146.6431	6.26	0	(26)	0.12	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> <a href="#">217</a>	<b>579.2984</b>	<b>1156.5822</b>	<b>1156.6313</b>	<b>-42.37</b>	<b>1</b>	<b>14</b>	<b>3.3</b>	<b>1</b>	<b>R.VAAVPASGSR.R</b>
<a href="#">297</a>	670.8989	1339.7832	1339.7711	9.09	0	2	19	6	R.DLKPENLLASK.C
<input checked="" type="checkbox"/> <a href="#">309</a>	<b>458.5792</b>	<b>1372.7158</b>	<b>1372.7310</b>	<b>-11.12</b>	<b>1</b>	<b>38</b>	<b>0.011</b>	<b>1</b>	<b>K.KADGVKPTNSTK.N</b>
<input checked="" type="checkbox"/> <a href="#">310</a>	<b>458.5814</b>	<b>1372.7224</b>	<b>1372.7310</b>	<b>-6.31</b>	<b>1</b>	<b>(25)</b>	<b>0.25</b>	<b>1</b>	<b>K.KADGVKPTNSTK.N</b>
<input checked="" type="checkbox"/> <a href="#">481</a>	<b>810.8718</b>	<b>1619.7290</b>	<b>1619.7355</b>	<b>-3.99</b>	<b>0</b>	<b>(18)</b>	<b>0.69</b>	<b>1</b>	<b>R.FTDEYQLYEDIGK.G</b>
<input checked="" type="checkbox"/> <a href="#">482</a>	<b>810.8729</b>	<b>1619.7312</b>	<b>1619.7355</b>	<b>-2.63</b>	<b>0</b>	<b>(41)</b>	<b>0.0039</b>	<b>1</b>	<b>R.FTDEYQLYEDIGK.G</b>
<input checked="" type="checkbox"/> <a href="#">483</a>	<b>810.8740</b>	<b>1619.7334</b>	<b>1619.7355</b>	<b>-1.27</b>	<b>0</b>	<b>52</b>	<b>0.00033</b>	<b>1</b>	<b>R.FTDEYQLYEDIGK.G</b>
<input checked="" type="checkbox"/> <a href="#">485</a>	<b>810.8782</b>	<b>1619.7418</b>	<b>1619.7355</b>	<b>3.92</b>	<b>0</b>	<b>(3)</b>	<b>24</b>	<b>1</b>	<b>R.FTDEYQLYEDIGK.G</b>
<input checked="" type="checkbox"/> <a href="#">487</a>	<b>810.8815</b>	<b>1619.7484</b>	<b>1619.7355</b>	<b>7.99</b>	<b>0</b>	<b>(7)</b>	<b>10</b>	<b>1</b>	<b>R.FTDEYQLYEDIGK.G</b>
<a href="#">571</a>	<b>897.9096</b>	<b>1793.8046</b>	<b>1793.8652</b>	<b>-33.75</b>	<b>0</b>	<b>0</b>	<b>42</b>	<b>10</b>	<b>R.TPSPATAMATTVTCTR.F + Oxidation (M)</b>
<a href="#">598</a>	1040.9820	2079.9494	2079.9426	3.32	0	32	0.027	1	K.AGAYDFPSPWDVTPEAK.N
<a href="#">599</a>	1040.9830	2079.9514	2079.9426	4.28	0	(9)	6	1	K.AGAYDFPSPWDVTPEAK.N
<a href="#">602</a>	1040.9895	2079.9644	2079.9426	10.5	0	(17)	1.1	1	K.AGAYDFPSPWDVTPEAK.N
<input checked="" type="checkbox"/> <a href="#">604</a>	<b>704.9893</b>	<b>2111.9461</b>	<b>2112.0011</b>	<b>-26.05</b>	<b>0</b>	<b>(14)</b>	<b>1.4</b>	<b>1</b>	<b>K.TTEQLIEAVNNGDFEAYAK.I</b>
<input checked="" type="checkbox"/> <a href="#">607</a>	<b>705.0047</b>	<b>2111.9923</b>	<b>2112.0011</b>	<b>-4.18</b>	<b>0</b>	<b>29</b>	<b>0.061</b>	<b>1</b>	<b>K.TTEQLIEAVNNGDFEAYAK.I</b>
<a href="#">609</a>	1057.0087	2112.0028	2112.0011	0.83	0	(3)	22	3	K.TTEQLIEAVNNGDFEAYAK.I
<input checked="" type="checkbox"/> <a href="#">674</a>	<b>785.0440</b>	<b>2352.1102</b>	<b>2352.1301</b>	<b>-8.48</b>	<b>0</b>	<b>(66)</b>	<b>9.2e-006</b>	<b>1</b>	<b>R.QTTAPATMSTAASGTTMGLVEQAK.S</b>
<input checked="" type="checkbox"/> <a href="#">675</a>	<b>785.0443</b>	<b>2352.1111</b>	<b>2352.1301</b>	<b>-8.09</b>	<b>0</b>	<b>85</b>	<b>1.4e-007</b>	<b>1</b>	<b>R.QTTAPATMSTAASGTTMGLVEQAK.S</b>
<input checked="" type="checkbox"/> <a href="#">677</a>	<b>1177.0797</b>	<b>2352.1448</b>	<b>2352.1301</b>	<b>6.26</b>	<b>0</b>	<b>(30)</b>	<b>0.045</b>	<b>1</b>	<b>R.QTTAPATMSTAASGTTMGLVEQAK.S</b>
<input checked="" type="checkbox"/> <a href="#">678</a>	<b>1177.0834</b>	<b>2352.1522</b>	<b>2352.1301</b>	<b>9.41</b>	<b>0</b>	<b>(45)</b>	<b>0.0013</b>	<b>1</b>	<b>R.QTTAPATMSTAASGTTMGLVEQAK.S</b>
<a href="#">680</a>	1177.0856	2352.1566	2352.1301	11.3	0	(2)	28	3	R.QTTAPATMSTAASGTTMGLVEQAK.S

3. [IPI00112584](#) Mass: 56961 Score: 198 Queries matched: 30 emPAI: 0.12  
 Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit 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
<a href="#">105</a>	463.2481	924.4816	924.4777	4.26	1	2	39	1	R.DHQKLER.E
<a href="#">183</a>	574.3185	1146.6224	1146.6431	-17.98	0	(0)	75	3	K.GAILTTMLATR.N
<a href="#">184</a>	574.3212	1146.6278	1146.6431	-13.27	0	(39)	0.0084	1	K.GAILTTMLATR.N
<a href="#">190</a>	574.3264	1146.6382	1146.6431	-4.20	0	(35)	0.022	1	K.GAILTTMLATR.N
<a href="#">191</a>	574.3266	1146.6386	1146.6431	-3.85	0	(36)	0.016	1	K.GAILTTMLATR.N
<a href="#">192</a>	574.3272	1146.6398	1146.6431	-2.81	0	(42)	0.0034	1	K.GAILTTMLATR.N
<a href="#">193</a>	574.3276	1146.6406	1146.6431	-2.11	0	(51)	0.00041	1	K.GAILTTMLATR.N
<a href="#">195</a>	574.3278	1146.6410	1146.6431	-1.76	0	(47)	0.0012	1	K.GAILTTMLATR.N
<a href="#">197</a>	574.3286	1146.6426	1146.6431	-0.36	0	(12)	3.8	1	K.GAILTTMLATR.N
<a href="#">198</a>	574.3288	1146.6430	1146.6431	-0.02	0	(42)	0.0031	1	K.GAILTTMLATR.N
<a href="#">199</a>	574.3290	1146.6434	1146.6431	0.33	0	(54)	0.0002	1	K.GAILTTMLATR.N
<a href="#">200</a>	574.3296	1146.6446	1146.6431	1.38	0	64	2.3e-005	1	K.GAILTTMLATR.N
<a href="#">201</a>	574.3298	1146.6450	1146.6431	1.73	0	(45)	0.0018	1	K.GAILTTMLATR.N
<a href="#">202</a>	574.3300	1146.6454	1146.6431	2.08	0	(64)	2.2e-005	1	K.GAILTTMLATR.N
<a href="#">203</a>	574.3303	1146.6460	1146.6431	2.60	0	(45)	0.0017	1	K.GAILTTMLATR.N
<a href="#">204</a>	574.3303	1146.6460	1146.6431	2.60	0	(25)	0.18	1	K.GAILTTMLATR.N
<a href="#">205</a>	574.3306	1146.6466	1146.6431	3.12	0	(39)	0.0056	1	K.GAILTTMLATR.N
<a href="#">207</a>	574.3308	1146.6470	1146.6431	3.47	0	(48)	0.00072	1	K.GAILTTMLATR.N
<a href="#">208</a>	574.3308	1146.6470	1146.6431	3.47	0	(50)	0.00047	1	K.GAILTTMLATR.N
<a href="#">209</a>	574.3309	1146.6472	1146.6431	3.65	0	(42)	0.0033	1	K.GAILTTMLATR.N
<a href="#">212</a>	574.3314	1146.6482	1146.6431	4.52	0	(35)	0.014	1	K.GAILTTMLATR.N
<a href="#">213</a>	574.3317	1146.6488	1146.6431	5.04	0	(31)	0.035	1	K.GAILTTMLATR.N
<a href="#">214</a>	574.3324	1146.6502	1146.6431	6.26	0	(26)	0.12	1	K.GAILTTMLATR.N
<a href="#">297</a>	670.8989	1339.7832	1339.7711	9.09	0	2	19	6	R.DLKPENLLASK.S
<input checked="" type="checkbox"/> <a href="#">472</a>	<b>809.8823</b>	<b>1617.7500</b>	<b>1617.7562</b>	<b>-3.83</b>	<b>0</b>	<b>(2)</b>	<b>34</b>	<b>1</b>	<b>R.FTDEYQLFEELGK.G</b>
<input checked="" type="checkbox"/> <a href="#">473</a>	<b>809.8842</b>	<b>1617.7538</b>	<b>1617.7562</b>	<b>-1.48</b>	<b>0</b>	<b>37</b>	<b>0.0098</b>	<b>1</b>	<b>R.FTDEYQLFEELGK.G</b>
<input checked="" type="checkbox"/> <a href="#">475</a>	<b>809.8906</b>	<b>1617.7666</b>	<b>1617.7562</b>	<b>6.43</b>	<b>0</b>	<b>(35)</b>	<b>0.021</b>	<b>1</b>	<b>R.FTDEYQLFEELGK.G</b>
<a href="#">598</a>	1040.9820	2079.9494	2079.9426	3.32	0	32	0.027	1	K.AGAYDFPSPWDVTPEAK.D
<a href="#">599</a>	1040.9830	2079.9514	2079.9426	4.28	0	(9)	6	1	K.AGAYDFPSPWDVTPEAK.D
<a href="#">602</a>	1040.9895	2079.9644	2079.9426	10.5	0	(17)	1.1	1	K.AGAYDFPSPWDVTPEAK.D

Proteins matching the same set of peptides:

[IPI00406790](#) Mass: 60593 Score: 198 Queries matched: 30  
 Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 4 of Calcium/calmodulin-dependent protein kinase type II subunit delta  
[IPI00475044](#) Mass: 55899 Score: 198 Queries matched: 30  
 Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 2 of Calcium/calmodulin-dependent protein kinase type II subunit delta  
[IPI00828919](#) Mass: 58492 Score: 198 Queries matched: 30  
 Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 3 of Calcium/calmodulin-dependent protein kinase type II subunit delta  
[IPI00857865](#) Mass: 54664 Score: 198 Queries matched: 30  
 Tax\_Id=10090 Gene\_Symbol=Camk2d Putative uncharacterized protein  
[IPI00858128](#) Mass: 58283 Score: 198 Queries matched: 30  
 Tax\_Id=10090 Gene\_Symbol=Camk2d calcium/calmodulin-dependent protein kinase type II subunit delta isoform 1  
[IPI00858144](#) Mass: 55828 Score: 198 Queries matched: 30  
 Tax\_Id=10090 Gene\_Symbol=Camk2d 55 kDa protein

4. [IPI00608020](#) Mass: 20817 Score: 71 Queries matched: 5 emPAI: 0.16  
 Tax\_Id=10090 Gene\_Symbol=Ft11 ferritin light chain 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"/> <a href="#">133</a>	<b>517.7672</b>	<b>1033.5198</b>	<b>1033.5192</b>	<b>0.59</b>	<b>0</b>	<b>(6)</b>	<b>24</b>	<b>1</b>	<b>R.LLEFQNDR.G</b>
<input checked="" type="checkbox"/> <a href="#">134</a>	<b>517.7681</b>	<b>1033.5216</b>	<b>1033.5192</b>	<b>2.33</b>	<b>0</b>	<b>17</b>	<b>2.1</b>	<b>1</b>	<b>R.LLEFQNDR.G</b>

<input checked="" type="checkbox"/>	<a href="#">135</a>	517.7722	1033.5298	1033.5192	10.3	0	(9)	11	1	R.LLEFQNDR.G
<input checked="" type="checkbox"/>	<a href="#">682</a>	791.7310	2372.1712	2372.1761	-2.07	0	(40)	0.0043	1	R.VAGPQPAQTGAPQGSGLGEYLFER.L
<input checked="" type="checkbox"/>	<a href="#">683</a>	791.7352	2372.1838	2372.1761	3.25	0	54	0.00015	1	R.VAGPQPAQTGAPQGSGLGEYLFER.L

## Proteins matching the same set of peptides:

[IPI00625129](#) Mass: 20783 Score: 71 Queries matched: 5  
Tax\_Id=10090 Gene\_Symbol=Ftl2 ferritin light chain 2  
[IPI00762203](#) Mass: 20847 Score: 71 Queries matched: 5  
Tax\_Id=10090 Gene\_Symbol=Ftl1 Ferritin light chain 1

5. [IPI00347110](#) Mass: 59502 Score: 69 Queries matched: 4 emPAI: 0.11  
Tax\_Id=10090 Gene\_Symbol=Krt73 Keratin, type II cytoskeletal 73

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"/>	<a href="#">263</a>	639.3532	1276.6918	1276.7027	-8.47	0	(33)	0.036	1	K.LALDIEIATYR.K
<input checked="" type="checkbox"/>	<a href="#">264</a>	639.3586	1276.7026	1276.7027	-0.01	0	40	0.0068	1	K.LALDIEIATYR.K
<input checked="" type="checkbox"/>	<a href="#">354</a>	738.3995	1474.7844	1474.7780	4.38	0	(22)	0.4	1	R.FLEQQNQVLQTK.W
<input checked="" type="checkbox"/>	<a href="#">355</a>	738.4022	1474.7898	1474.7780	8.04	0	55	0.0002	1	R.FLEQQNQVLQTK.W

6. [IPI00625729](#) Mass: 66079 Score: 55 Queries matched: 3 emPAI: 0.05  
Tax\_Id=10090 Gene\_Symbol=Krt1 Keratin, type II cytoskeletal 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"/>	<a href="#">258</a>	633.3261	1264.6376	1264.6299	6.12	0	11	5.7	1	R.TNAENEFVTIK.K
<input checked="" type="checkbox"/>	<a href="#">354</a>	738.3995	1474.7844	1474.7780	4.38	0	(22)	0.4	1	R.FLEQQNQVLQTK.W
<input checked="" type="checkbox"/>	<a href="#">355</a>	738.4022	1474.7898	1474.7780	8.04	0	55	0.0002	1	R.FLEQQNQVLQTK.W

7. [IPI00222228](#) Mass: 58587 Score: 45 Queries matched: 3 emPAI: 0.06  
Tax\_Id=10090 Gene\_Symbol=4732456N10Rik hypothetical protein LOC239673

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"/>	<a href="#">263</a>	639.3532	1276.6918	1276.7027	-8.47	0	(33)	0.036	1	K.LALDIEIATYR.K
<input checked="" type="checkbox"/>	<a href="#">264</a>	639.3586	1276.7026	1276.7027	-0.01	0	40	0.0068	1	K.LALDIEIATYR.K
<input checked="" type="checkbox"/>	<a href="#">577</a>	906.4692	1810.9238	1810.8923	17.4	0	9	7.3	1	R.TNLEPMFEAYITNLR.R

8. [IPI00138892](#) Mass: 15004 Score: 43 Queries matched: 3 emPAI: 0.23  
Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin-60S ribosomal protein L40

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"/>	<a href="#">564</a>	894.4686	1786.9226	1786.9200	1.47	0	(35)	0.019	1	K.TITLEVEPSDTIENVK.A
<input checked="" type="checkbox"/>	<a href="#">566</a>	894.4698	1786.9250	1786.9200	2.82	0	37	0.011	1	K.TITLEVEPSDTIENVK.A
<input checked="" type="checkbox"/>	<a href="#">567</a>	894.4714	1786.9282	1786.9200	4.61	0	(21)	0.48	1	K.TITLEVEPSDTIENVK.A

## Proteins matching the same set of peptides:

[IPI00470152](#) Mass: 18282 Score: 43 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Rps27a Ubiquitin-40S ribosomal protein S27a  
[IPI00895319](#) Mass: 22277 Score: 43 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=2810422J05Rik 22 kDa protein  
[IPI00895479](#) Mass: 27181 Score: 43 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=2810422J05Rik 27 kDa protein  
[IPI00918763](#) Mass: 11021 Score: 43 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin subunit 1  
[IPI00750889](#) Mass: 22822 Score: 43 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Ubc Ubc protein  
[IPI00923013](#) Mass: 26603 Score: 43 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Ubb Ubiquitin B  
[IPI00923037](#) Mass: 22578 Score: 43 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Ubc Putative uncharacterized protein  
[IPI00139518](#) Mass: 34348 Score: 43 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Ubb Polyubiquitin-B  
[IPI00755916](#) Mass: 82614 Score: 43 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Ubc ubiquitin  
[IPI00969323](#) Mass: 82603 Score: 43 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Ubc Polyubiquitin-C

9. [IPI00874682](#) Mass: 36038 Score: 38 Queries matched: 3 emPAI: 0.09  
Tax\_Id=10090 Gene\_Symbol=- 36 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"/>	<a href="#">306</a>	685.3730	1368.7314	1368.7361	-3.40	0	38	0.011	1	R.GAAQNIIPASTGAAK.A
<input checked="" type="checkbox"/>	<a href="#">307</a>	685.3763	1368.7380	1368.7361	1.42	0	(6)	15	1	R.GAAQNIIPASTGAAK.A
	<a href="#">648</a>	737.6991	2210.0755	2210.1075	-14.50	0	1	38	2	R.VIISAPSADAPMIVMGVNHEK.Y + 2 Oxidation (M)

10. [IPI00223714](#) Mass: 21964 Score: 38 Queries matched: 2 emPAI: 0.15  
Tax\_Id=10090 Gene\_Symbol=Hist1hle Histone H1.4

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

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">230</a>	614.8427	1227.6708	1227.6711	-0.18	0	38	0.012	1	K.TSGPPVSELITK.A
<a href="#">231</a>	614.8442	1227.6738	1227.6711	2.27	0	(4)		28	K.TSGPPVSELITK.A

Peptide matches not assigned to protein hits: (no details means no match)

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">138</a>	523.2836	1044.5526	1044.5564	-3.55	0	30	0.084	1	INDITLNSR
<a href="#">141</a>	523.2860	1044.5574	1044.5564	1.05	0	30	0.089	1	INDITLNSR
<a href="#">140</a>	523.2858	1044.5570	1044.5564	0.67	0	30	0.09	1	INDITLNSR
<a href="#">550</a>	851.4625	1700.9104	1700.8985	7.02	0	29	0.065	1	AVFVDLEPTVIDEVR
<a href="#">756</a>	1188.2642	3561.7708	3561.7951	-6.83	0	27	0.042	1	TAGAQVVLTDQELQLWPSDLLKPSASEGLPPGSR
<a href="#">82</a>	423.2244	844.4342	844.4515	-20.40	1	26	0.29	1	AIRENSR
<a href="#">234</a>	615.3033	1228.5920	1228.6088	-13.63	0	21	0.5	1	DAVLEFPFADR
<a href="#">93</a>	435.7734	869.5322	869.5123	22.9	0	21	0.32	1	VSLWLPR
<a href="#">25</a>	325.1812	648.3478	648.3595	-17.97	0	21	0.69	1	AFNAVK
<a href="#">137</a>	523.2833	1044.5520	1044.5564	-4.12	0	20		1	INDITLNSR
<a href="#">542</a>	851.4489	1700.8832	1700.8985	-8.98	0	19	0.8	1	AVFVDLEPTVIDEVR
<a href="#">78</a>	421.7591	841.5036	841.4658	45.0	0	18	0.78	1	ATHTVSVK
<a href="#">270</a>	651.8633	1301.7120	1301.7078	3.24	0	18	0.83	1	SLDLSIIAEVK
<a href="#">159</a>	556.3107	1110.6068	1110.5777	26.2	1	17	0.98	1	LMKTVQTMK + 2 Oxidation (M)
<a href="#">420</a>	785.8442	1569.6738	1569.7466	-46.32	1	17	0.51	1	KWTMLLMNNTR + 2 Oxidation (M)
<a href="#">285</a>	657.8660	1313.7174	1313.7092	6.30	0	17	1.3	1	LATVGLQAAWR
<a href="#">251</a>	631.3092	1260.6038	1260.5656	30.3	0	17	1.5	1	SDLEAHVESMK + Oxidation (M)
<a href="#">132</a>	517.2679	1032.5212	1032.4771	42.8	1	16	2.1	1	NAMRDPSSR
<a href="#">91</a>	435.7730	869.5314	869.4971	39.6	0	15	1.4	1	AVVESLPR
<a href="#">235</a>	615.3042	1228.5938	1228.6200	-21.31	0	14	2.3	1	IGGLNWAIDDR
<a href="#">68</a>	412.7538	823.4930	823.5028	-11.85	1	14		1	VPSRLPR
<a href="#">145</a>	525.2818	1048.5490	1048.5553	-5.93	0	14	3.3	1	AAAGEIYNK
<a href="#">288</a>	657.8696	1313.7246	1313.7092	11.8	0	14	2.3	1	LATVGLQAAWR
<a href="#">67</a>	412.7532	823.4918	823.4664	30.9	0	14	1.1	1	ALSIHQK
<a href="#">50</a>	379.7120	757.4094	757.3719	49.6	0	14	4.4	1	SSPAGSPR
<a href="#">552</a>	851.4630	1700.9114	1700.8985	7.60	0	14		2	AVFVDLEPTVIDEVR
<a href="#">90</a>	435.7719	869.5292	869.4858	49.9	0	14	1.7	1	VSGVEVPLA
<a href="#">348</a>	738.3803	1474.7460	1474.8065	-40.98	1	14	3.2	1	VESLLENMGIKVK + Oxidation (M)
<a href="#">64</a>	412.7518	823.4890	823.4916	-3.07	0	14	1.2	1	TVAPALPR
<a href="#">269</a>	651.8616	1301.7086	1301.6649	33.6	0	14	2.6	1	ATIATMPVPETR + Oxidation (M)
<a href="#">549</a>	851.4609	1700.9072	1700.8985	5.13	0	13	2.4	1	AVFVDLEPTVIDEVR
<a href="#">142</a>	523.2862	1044.5578	1044.5829	-23.94	1	13	4.3	1	AVGRRPFDK
<a href="#">75</a>	421.7574	841.5002	841.4810	22.9	0	13	2.6	1	AVLTWPR
<a href="#">168</a>	565.3207	1128.6268	1128.6291	-2.01	0	13	3.6	1	IGSGLAHAYIK
<a href="#">86</a>	428.7643	855.5140	855.4814	38.2	0	13	2.5	1	LGAETLPR
<a href="#">638</a>	1073.0280	2144.0414	2144.0055	16.7	1	13	2.6	1	TPKPGNPSSESSKEVPSCK
<a href="#">681</a>	791.7297	2372.1673	2372.2059	-16.28	1	13	2.2	1	DPLARLSNPLCANASYWAVVR
<a href="#">759</a>	1188.2699	3561.7879	3561.6931	26.6	1	13	1.1	1	TGWAMVSLCIVFAMTSGQMWHIRGPPYAHK + Oxidation (M)
<a href="#">259</a>	634.3560	1266.6974	1266.6720	20.1	1	13	2.6	1	RNIIGYFEQK
<a href="#">670</a>	1168.5640	2335.1134	2335.0751	16.4	1	13	2.4	1	TPWRMDTSGTPQTADSATSPK
<a href="#">352</a>	738.3887	1474.7628	1474.7741	-7.66	0	12	4.1	1	LMVEFPLDPAISK + Oxidation (M)
<a href="#">117</a>	496.2275	990.4404	990.4804	-40.33	1	12	2.8	1	AKMDLEER
<a href="#">76</a>	421.7582	841.5018	841.4658	42.9	0	12	3.3	1	ATHTVSVK
<a href="#">74</a>	421.7559	841.4972	841.4810	19.3	0	12	3.6	1	AVLTWPR
<a href="#">130</a>	516.2977	1030.5808	1030.6036	-22.07	1	12	5.2	1	GLVGLNFR
<a href="#">139</a>	523.2856	1044.5566	1044.5564	0.28	0	12	6.6	1	INDITLNSR
<a href="#">271</a>	651.8643	1301.7140	1301.7078	4.78	0	11	4.1	1	SLDLSIIAEVK
<a href="#">37</a>	692.3918	691.3845	691.3765	11.5	1	11	5.8	1	KFAGNR
<a href="#">94</a>	435.7735	869.5324	869.5698	-42.96	1	11	3.1	1	VLKILR
<a href="#">553</a>	851.4633	1700.9120	1700.8985	7.96	0	11		4	AVFVDLEPTVIDEVR
<a href="#">298</a>	672.8471	1343.6796	1343.7157	-26.84	1	11	5.7	1	GSVGRSSAPAASLGK
<a href="#">331</a>	717.8047	1433.5948	1433.6535	-40.92	1	11	1.7	1	ALQRDWSGSDGK
<a href="#">51</a>	379.7136	757.4126	757.4334	-27.39	0	11	9.4	1	GLNEVVK
<a href="#">462</a>	801.9191	1601.8236	1601.7443	49.6	0	11	5.7	1	FHTMPACAATNLPR + Oxidation (M)
<a href="#">129</a>	515.7794	1029.5442	1029.5931	-47.43	1	11		8	AQVKLSTQR
<a href="#">312</a>	691.3352	1380.6558	1380.6741	-13.21	1	11	5.2	1	KNVIMELSEMR + 2 Oxidation (M)
<a href="#">467</a>	802.8889	1603.7632	1603.7512	7.53	0	10	5.8	1	AEVMNPTRPVSSSET
<a href="#">654</a>	737.7070	2210.0992	2210.0967	1.11	0	10	5.3	1	LGEHNINVLEGNEQFIDAAK
<a href="#">398</a>	785.8391	1569.6636	1569.6960	-20.62	0	10	2.4	1	ESWEAAQEAWAHR
<a href="#">762</a>	1188.2935	3561.8587	3561.9534	-26.60	1	10		2	ELLTGTDLWPVAIFTVIFILLVDLMHRHQK + Oxidation (M)
<a href="#">96</a>	435.7746	869.5346	869.5698	-40.43	1	10	4.3	1	VLKELR
<a href="#">713</a>	958.1292	2871.3658	2871.4477	-28.53	1	10		4	WDVCLTLSEKGFQISFVNSIATTK
<a href="#">350</a>	738.3823	1474.7500	1474.6787	48.4	1	9	8.4	1	VDTEPKAEASGDK
<a href="#">73</a>	414.2264	826.4382	826.4773	-47.26	1	9	6.3	1	AALPRGSR
<a href="#">340</a>	738.3669	1474.7192	1474.7602	-27.80	1	9	8.6	1	GDGLFAQMRGGLLP
<a href="#">543</a>	851.4530	1700.8914	1700.8985	-4.15	0	9		7	AVFVDLEPTVIDEVR
<a href="#">95</a>	435.7746	869.5346	869.4971	43.2	0	9	4.7	1	AVVESLPR
<a href="#">345</a>	738.3784	1474.7422	1474.7932	-34.58	0	9	9.1	1	LHHTSLPDFPAIK
<a href="#">71</a>	414.2235	826.4324	826.4297	3.32	0	9	6.4	1	DVLPNNR
<a href="#">371</a>	760.8850	1519.7554	1519.6833	47.5	1	9	9.1	1	VLEMSMKSTCFR + 2 Oxidation (M)
<a href="#">77</a>	421.7587	841.5028	841.4810	25.9	0	9	7.1	1	AVLTWPR
<a href="#">176</a>	565.3246	1128.6346	1128.5928	37.1	0	9	9.3	1	TDVNPFLAPR
<a href="#">729</a>	772.4192	3085.6477	3085.5989	15.8	0	8	2.7	1	MILGIILSMVVISIFVFSCLLHHEHK + 2 Oxidation (M)

489	810.8901	1619.7656	1619.7865	-12.89	0	8	9.1	1	GLYDGPVCEVSVTPK
128	514.2868	1026.5590	1026.5458	12.9	0	8	10	1	GPLVQGVDSR
460	801.4333	1600.8520	1600.8429	5.71	0	8	9	1	SMIISATIHMQVVR + Oxidation (M)
614	1057.5195	2113.0244	2112.9687	26.4	1	8	9.3	1	KCFQTAHFYLEDNTPFR
646	737.3643	2209.0711	2209.1491	-35.32	1	8	8.3	1	LGEHNIKVLEGNQFVNAAK
282	657.8612	1313.7078	1313.7415	-25.63	1	8	12	1	AALASVLRATGR
314	691.3487	1380.6828	1380.7150	-23.26	0	8	12	1	EHLGLSWAELAR
69	412.7543	823.4940	823.4817	15.0	0	8	4.8	1	RPWLPFR
92	435.7733	869.5320	869.5334	-1.61	1	8	7	1	VTPKQGIK
643	732.0196	2193.0370	2193.0452	-3.76	1	7	8.9	1	FGSDPATYNGFLEIMKEFK
422	785.8444	1569.6742	1569.6399	21.9	1	7	5.4	1	MKTECDSEQGETR
279	652.3647	1302.7148	1302.6608	41.5	1	7	13	1	KWQPPVFSDDI
233	615.3006	1228.5866	1228.5989	-9.97	0	7	13	1	GEWPWQASLR
72	414.2238	826.4330	826.4198	16.0	1	7	12	1	HHYSKR
508	816.8943	1631.7740	1631.8460	-44.10	0	7	14	1	LVFAAYGNVFSAFAR
663	763.3481	2287.0225	2287.1154	-40.63	1	7	6.9	1	EMKAEVNAVGSATYESIGSLR + Oxidation (M)
546	851.4565	1700.8984	1700.8985	-0.04	0	7	12	1	AVFVDLEPTVIDEVR
297	670.8989	1339.7832	1339.7282	41.1	1	6	7.2	1	KMPVGLPEAVGSR
761	1188.2787	3561.8143	3561.7859	7.96	1	6	5.3	1	QQQQTGNHPITVHCSAGAGRTGTFIALSNIER
695	888.7545	2663.2417	2663.3009	-22.24	1	6	11	1	WMGVSDKSVIVCSTGSSLLLFMSK + 2 Oxidation (M)
622	709.6712	2125.9918	2125.9747	8.01	1	5	13	1	ITCAQTFNFRGLCMYK + Oxidation (M)
113	485.7493	969.4840	969.4563	28.6	1	5	17	1	HCRDQVR
636	1073.0161	2144.0176	2143.9740	20.3	1	5	15	1	KWMEQFEMAMSNIKPKD + 2 Oxidation (M)
605	704.9991	2111.9755	2112.0773	-48.20	1	5	13	1	AFIATSTEGTDKGIMLNTVK + Oxidation (M)
649	737.6996	2210.0770	2210.0967	-8.94	0	5	16	1	LGEHNINVLGNEQFIDAAK
754	891.4431	3561.7433	3561.6393	29.2	1	5	7	1	MVKDSSLVACAFSPDGLFVTGSSGGDLTVWDDR + Oxidation (M)
89	435.7656	869.5166	869.5083	9.60	1	5	15	1	VGQPVRSK
640	1073.0392	2144.0638	2144.1399	-35.45	1	5	19	1	IGPISDTSPELMDGVGSLKK + Oxidation (M)
299	672.8474	1343.6802	1343.6616	13.9	1	5	24	1	CASKQAAVEPGAR
680	1177.0856	2352.1566	2352.1518	2.04	0	5	16	1	ETEAEAQVSLPALLMEHLDK
589	976.4807	1950.9468	1950.9543	-3.84	0	5	20	1	DEIQCVVATVAFMGINK
36	692.3890	691.3817	691.3574	35.1	0	5	28	1	TALMEK
570	897.8961	1793.7776	1793.7699	4.32	1	4	12	1	MSYLKTTMEDEESSK + Oxidation (M)
688	819.4637	2455.3693	2455.2642	42.8	1	4	5.7	1	VREVEVVPNSMGGQGLLGASVR + Oxidation (M)
210	574.3311	1146.6476	1146.6318	13.8	0	4	18	1	TAMIVAIVLGGK + Oxidation (M)
571	897.9096	1793.8046	1793.8764	-40.00	1	4	16	1	NTMLSTPCVATKQSTR
709	929.7959	2786.3659	2786.5001	-48.16	1	4	15	1	GLDLLQTCFVVGSSLNLPRLQSLSL
609	1057.0087	2112.0028	2112.0487	-21.71	1	4	19	1	EKWLQGVPGATAEER
734	801.4522	3201.7797	3201.8601	-25.11	1	4	4.6	1	PPPPGPAALGTALLLLLLLASESHTVLLRAR
255	631.8049	1261.5952	1261.5537	33.0	0	4	26	1	MDFSDDYLLK + Oxidation (M)
396	785.8381	1569.6616	1569.7059	-28.22	0	4	8.8	1	TEGASPEGEGTPWPR
114	485.7534	969.4922	969.4992	-7.16	0	4	23	1	SQQPGGQLR
711	933.4422	2797.3048	2797.2450	21.4	1	4	14	1	GARSVAGAGGGCPAGGNDFQWCFSSQVK
522	816.8959	1631.7772	1631.8195	-25.90	1	4	26	1	TEFTFLDYVKQNK
87	428.7668	855.5190	855.4814	44.0	1	4	20	1	IDRLPKD
573	897.9128	1793.8110	1793.7699	22.9	1	4	20	1	MSYLKTTMEDEESSK + Oxidation (M)
178	565.3273	1128.6400	1128.5961	38.9	0	4	28	1	AVMQSQKPPK + Oxidation (M)
70	414.2226	826.4306	826.4259	5.80	0	4	24	1	YLVMSAK + Oxidation (M)
760	1188.2722	3561.7948	3561.7951	-0.09	0	4	9.6	1	TAGAQQVLTDLQELQWPSDLLKPSASEGLPPGSR
671	1168.5660	2335.1174	2335.2019	-36.17	0	4	20	1	LISATDIQYSASLLNSLNEQR
131	517.2668	1032.5190	1032.5352	-15.68	1	3	39	1	RLQYDPDGK
148	530.7909	1059.5672	1059.6077	-38.14	1	3	48	1	VATHTLKYK
49	379.7111	757.4076	757.4195	-15.60	1	3	55	1	DALRQR
618	707.3326	2118.9760	2118.9826	-3.14	1	3	21	1	LKNTSEQDQPMGGWEMIR
697	903.1155	2706.3247	2706.2570	25.0	1	3	20	1	KDVLFGNMAEIEYFHNIFMSR + 2 Oxidation (M)
281	657.8579	1313.7012	1313.6438	43.7	0	3	37	1	LGLTGLPSYQMR
490	816.8853	1631.7560	1631.7474	5.28	1	3	28	1	SMVNGGWSGEPFR + Oxidation (M)
532	816.8991	1631.7836	1631.8460	-38.21	0	3	33	1	LVFAAYGNVFSAFAR
478	810.4119	1618.8092	1618.8501	-25.23	1	3	37	1	SACREVFTQLPALK
647	737.6964	2210.0674	2210.0929	-11.54	1	3	26	1	ELGHEGLYEYTELKTVAMK
346	738.3788	1474.7430	1474.7528	-6.64	1	3	40	1	ADGLYRGSPLVDR
126	514.2750	1026.5354	1026.5094	25.4	0	3	35	1	NVEGPEGLGR
110	476.7457	951.4768	951.4331	46.0	1	2	42	1	MTKGEENK + Oxidation (M)
764	905.7182	3618.8437	3618.6866	43.4	1	2	13	1	VAVVSDGCDTGVALRFGAMLGNYSCAAQGTQGGSK + Oxidation (M)
740	851.2089	3400.8065	3400.7409	19.3	1	2	11	1	QLISVFSPPQELGASLAQLVAQRAASCLEGR
456	795.8763	1589.7380	1589.7113	16.8	1	2	33	1	TQMQQMHGRMPVPV + 3 Oxidation (M)
252	631.3129	1260.6112	1260.6172	-4.76	0	2	47	1	GLLSVYMSGYR + Oxidation (M)
776	1019.7321	4074.8993	4074.8525	11.5	1	2	11	1	LFATEECFAICNQLQMHGGYGLKDYAVQYMR
648	737.6991	2210.0755	2210.0500	11.5	0	2	34	1	VMQNFSPQPCQETQIPLK + Oxidation (M)
27	325.1888	648.3630	648.3629	0.28	1	2	39	1	GLGMKK + Oxidation (M)
574	897.9168	1793.8190	1793.9029	-46.73	1	2	35	1	NRNLSGGVLMGFMNLR + Oxidation (M)
501	816.8934	1631.7722	1631.7951	-13.98	1	2	44	1	AAGCPTGPHKAQPPR
339	736.8575	1471.7004	1471.6990	0.97	0	2	44	1	MNLGNTWIHNTR + Oxidation (M)
590	656.9555	1967.8447	1967.8274	8.76	0	2	17	1	ATQADLMELDMAMEPDR + 2 Oxidation (M)
627	1072.5190	2143.0234	2143.0521	-13.35	1	1	36	1	IMGGVDAEEGKWPWQVSVR
150	533.2669	1064.5192	1064.4743	42.2	0	1	55	1	IQACAMESR
344	738.3780	1474.7414	1474.8065	-44.10	1	1	57	1	VESLENNMGIKVK + Oxidation (M)
746	863.4315	3449.6969	3449.7368	-11.57	0	1	18	1	IGVPQASDLAAEAVVLHYTDWLHPEDPHTLR
26	325.1886	648.3626	648.3595	4.86	0	1	45	1	AFNAVK
741	851.4378	3401.7221	3401.6532	20.3	0	1	19	1	MGIPLTWMLLVMVTSWFTLAEASNSTEAR + Oxidation (M)
668	779.0337	2334.0793	2334.1196	-17.26	1	1	28	1	AGRVCEGDMVPIPTGDELSVTTK

<input checked="" type="checkbox"/>	<a href="#">639</a>	1073.0326	2144.0506	2143.9844	30.9	0	1	48	1	EMFAQDHPVNSLEEVVR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">617</a>	707.3309	2118.9709	2119.0599	-42.02	1	0	37	1	FREFVYQEAAGPHQTLAR
<input checked="" type="checkbox"/>	<a href="#">488</a>	810.8825	1619.7504	1619.7209	18.2	0	0	52	1	LEASADANIQDNMGR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">632</a>	715.6734	2143.9984	2144.0498	-23.98	1	0	41	1	KLQNSIQESTQNFDDHLK
<input checked="" type="checkbox"/>	<a href="#">183</a>	574.3185	1146.6224	1146.6145	6.89	1	0	70	1	AGSAWVSKVSR
<input checked="" type="checkbox"/>	<a href="#">120</a>	505.7470	1009.4794	1009.5127	-32.96	1	0	59	1	VRQMFASR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">470</a>	805.9015	1609.7884	1609.8538	-40.57	1	0	61	1	EISNGKWLlyLMK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">1</a>	355.0797	354.0724							
<input checked="" type="checkbox"/>	<a href="#">2</a>	361.1398	360.1325							
<input checked="" type="checkbox"/>	<a href="#">3</a>	361.1489	360.1416							
<input checked="" type="checkbox"/>	<a href="#">4</a>	424.3160	423.3087							
<input checked="" type="checkbox"/>	<a href="#">5</a>	429.1035	428.0962							
<input checked="" type="checkbox"/>	<a href="#">6</a>	445.1225	444.1152							
<input checked="" type="checkbox"/>	<a href="#">7</a>	445.1355	444.1282							
<input checked="" type="checkbox"/>	<a href="#">8</a>	453.1935	452.1862							
<input checked="" type="checkbox"/>	<a href="#">9</a>	472.2896	471.2823							
<input checked="" type="checkbox"/>	<a href="#">10</a>	484.8884	483.8811							
<input checked="" type="checkbox"/>	<a href="#">11</a>	503.1200	502.1127							
<input checked="" type="checkbox"/>	<a href="#">12</a>	503.3114	502.3041							
<input checked="" type="checkbox"/>	<a href="#">13</a>	517.2617	516.2544							
<input checked="" type="checkbox"/>	<a href="#">14</a>	517.7728	516.7655							
<input checked="" type="checkbox"/>	<a href="#">15</a>	519.1511	518.1438							
<input checked="" type="checkbox"/>	<a href="#">16</a>	519.2682	518.2609							
<input checked="" type="checkbox"/>	<a href="#">17</a>	582.3313	581.3240							
<input checked="" type="checkbox"/>	<a href="#">18</a>	591.3353	590.3280							
<input checked="" type="checkbox"/>	<a href="#">19</a>	591.3372	590.3299							
<input checked="" type="checkbox"/>	<a href="#">20</a>	591.3375	590.3302							
<input checked="" type="checkbox"/>	<a href="#">21</a>	615.7893	614.7820							
<input checked="" type="checkbox"/>	<a href="#">22</a>	616.3849	615.3776							
<input checked="" type="checkbox"/>	<a href="#">23</a>	618.2722	617.2649							
<input checked="" type="checkbox"/>	<a href="#">24</a>	632.3665	631.3592							
<input checked="" type="checkbox"/>	<a href="#">28</a>	327.6999	653.3852							
<input checked="" type="checkbox"/>	<a href="#">29</a>	327.7017	653.3888							
<input checked="" type="checkbox"/>	<a href="#">30</a>	332.5570	663.0994							
<input checked="" type="checkbox"/>	<a href="#">31</a>	670.8994	669.8921							
<input checked="" type="checkbox"/>	<a href="#">32</a>	688.3806	687.3733							
<input checked="" type="checkbox"/>	<a href="#">33</a>	692.3674	691.3601							
<input checked="" type="checkbox"/>	<a href="#">34</a>	692.3825	691.3752							
<input checked="" type="checkbox"/>	<a href="#">35</a>	692.3873	691.3800							
<input checked="" type="checkbox"/>	<a href="#">38</a>	714.7493	713.7420							
<input checked="" type="checkbox"/>	<a href="#">39</a>	718.3547	717.3474							
<input checked="" type="checkbox"/>	<a href="#">40</a>	722.3738	721.3665							
<input checked="" type="checkbox"/>	<a href="#">41</a>	729.8591	728.8518							
<input checked="" type="checkbox"/>	<a href="#">42</a>	729.8614	728.8541							
<input checked="" type="checkbox"/>	<a href="#">43</a>	736.8525	735.8452							
<input checked="" type="checkbox"/>	<a href="#">44</a>	742.7342	741.7269							
<input checked="" type="checkbox"/>	<a href="#">45</a>	743.8713	742.8640							
<input checked="" type="checkbox"/>	<a href="#">46</a>	744.4328	743.4255							
<input checked="" type="checkbox"/>	<a href="#">47</a>	747.8560	746.8487							
<input checked="" type="checkbox"/>	<a href="#">48</a>	755.4680	754.4607							
<input checked="" type="checkbox"/>	<a href="#">52</a>	761.3905	760.3832							
<input checked="" type="checkbox"/>	<a href="#">53</a>	763.4495	762.4422							
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#### Search Parameters

Type of search : MS/MS Ion Search  
Enzyme : Trypsin  
Fixed modifications : Carbamidomethyl (C)  
Variable modifications : Oxidation (M)  
Mass values : Monoisotopic  
Protein Mass : Unrestricted  
Peptide Mass Tolerance :  $\pm 50$  ppm  
Fragment Mass Tolerance:  $\pm 0.2$  Da  
Max Missed Cleavages : 1  
Instrument type : ESI-QUAD-TOF  
Number of queries : 786

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

# Mascot Search Results

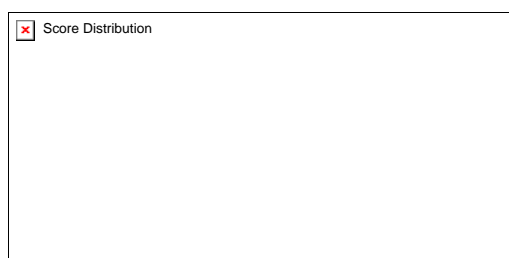
**User** : Dominic  
**Email** : dominic.kurian@bbsrc.ac.uk  
**Search title** : IPI Mouse\_15-02-2010  
**MS data file** : D:\Peaklist\Dominic Kurian\QToF\DK20010807 GATC P 0010885.pkl  
**Database** : IPI\_mouse MOUSE\_v3\_79 (54943 sequences; 24917557 residues)  
**Timestamp** : 15 Feb 2011 at 16:07:35 GMT  
**Protein hits** : [IPI00420725](#) Tax\_Id=10090 Gene\_Symbol=Camk2a Uncharacterized protein  
[IPI00755181](#) Tax\_Id=10090 Gene\_Symbol=Krt10 keratin, type I cytoskeletal 10  
[IPI00131366](#) Tax\_Id=10090 Gene\_Symbol=Krt6b Keratin, type II cytoskeletal 6B  
[IPI00348328](#) Tax\_Id=10090 Gene\_Symbol=Krt78 keratin Kb40  
[IPI00322209](#) Tax\_Id=10090 Gene\_Symbol=Krt8 Keratin, type II cytoskeletal 8  
[IPI00347110](#) Tax\_Id=10090 Gene\_Symbol=Krt73 Keratin, type II cytoskeletal 73

## IPI\_mouse [Decoy](#) False discovery rate

Peptide matches above identity threshold 18 0 0.00 %  
 Peptide matches above homology or identity threshold 22 0 0.00 %

## 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 > 37 indicate identity or extensive homology ( $p < 0.01$ ).  
 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  $p < 0.01$  Max. number of hits AUTO  
 Standard scoring  MudPIT scoring  Ions score or expect cut-off 0 Show sub-sets 0  
 Show pop-ups  Suppress pop-ups  Sort unassigned Decreasing Score Require bold red   
    Error tolerant

1. [IPI00420725](#) Mass: 55882 Score: 276 Queries matched: 24 emPAI: 0.12  
 Tax\_Id=10090 Gene\_Symbol=Camk2a Uncharacterized 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"/> 196	574.3283	1146.6420	1146.6431	-0.89	0	(1)	44	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> 197	574.3286	1146.6426	1146.6431	-0.36	0	23	0.26	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> 198	574.3295	1146.6444	1146.6431	1.21	0	(2)	35	3	K.GAILTTMLATR.N
<input checked="" type="checkbox"/> 268	631.3032	1260.5918	1260.5927	-0.71	0	(8)	10	1	R.FYFENLWSR.N
<input checked="" type="checkbox"/> 270	631.3068	1260.5990	1260.5927	5.00	0	38	0.01	1	R.FYFENLWSR.N
<input checked="" type="checkbox"/> 301	652.3496	1302.6846	1302.6932	-6.56	0	(12)	4.6	1	R.ITQYLDAGGIPR.T
<input checked="" type="checkbox"/> 302	652.3525	1302.6904	1302.6932	-2.11	0	18	1.3	1	R.ITQYLDAGGIPR.T
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<input checked="" type="checkbox"/> 515	816.8981	1631.7816	1631.7719	5.99	0	(48)	0.0011	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/> 518	816.8998	1631.7850	1631.7719	8.07	0	(14)	2.9	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/> 519	816.9008	1631.7870	1631.7719	9.29	0	(65)	1.9e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/> 521	816.9054	1631.7962	1631.7719	14.9	0	(10)	6.2	1	R.FTEEYQLFEELGK.G

Proteins matching the same set of peptides:

[IPI00621806](#) Mass: 54651 Score: 276 Queries matched: 24  
 Tax\_Id=10090 Gene\_Symbol=Cank2a Isoform Alpha CaMKII of Calcium/calmodulin-dependent protein kinase type II subunit alpha

2. [IPI00755181](#) Mass: 57178 Score: 79 Queries matched: 3 empAI: 0.12  
 Tax\_Id=10090 Gene\_Symbol=Krt10 keratin, type I cytoskeletal 10

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"/> <a href="#">173</a>	545.7680	1089.5214	1089.5237	-2.05	0	68 1.2e-005	1 K.VTMQNLNDR.L
<input checked="" type="checkbox"/> <a href="#">344</a>	691.3235	1380.6324	1380.6408	-6.08	0 (28)	0.083	1 R.ALEESNYELEGK.I
<input checked="" type="checkbox"/> <a href="#">345</a>	691.3331	1380.6516	1380.6408	7.83	0	49 0.00069	1 R.ALEESNYELEGK.I

Proteins matching the same set of peptides:

[IPI00798492](#) Mass: 57906 Score: 79 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Krt10 Isoform 1 of Keratin, type I cytoskeletal 10  
[IPI00828744](#) Mass: 57197 Score: 79 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Krt10 Isoform 2 of Keratin, type I cytoskeletal 10

3. [IPI00131366](#) Mass: 60627 Score: 70 Queries matched: 3 empAI: 0.05  
 Tax\_Id=10090 Gene\_Symbol=Krt6b Keratin, type II cytoskeletal 6B

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"/> <a href="#">298</a>	651.8590	1301.7034	1301.7078	-3.36	0	54 0.00027	1 R.SLDLDSIIAEVK.A
<input checked="" type="checkbox"/> <a href="#">299</a>	651.8593	1301.7040	1301.7078	-2.90	0 (38)	0.0097	1 R.SLDLDSIIAEVK.A
<input checked="" type="checkbox"/> <a href="#">300</a>	651.8599	1301.7052	1301.7078	-1.98	0 (39)	0.0084	1 R.SLDLDSIIAEVK.A

Proteins matching the same set of peptides:

[IPI00131368](#) Mass: 59641 Score: 70 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Krt6a Keratin, type II cytoskeletal 6A  
[IPI00139301](#) Mass: 61957 Score: 70 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Krt5 Keratin, type II cytoskeletal 5  
[IPI00221797](#) Mass: 59932 Score: 70 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Krt75 Keratin, type II cytoskeletal 75  
[IPI00330480](#) Mass: 35315 Score: 70 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=- 35 kDa protein  
[IPI00470126](#) Mass: 60553 Score: 70 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Krt5 Uncharacterized protein  
[IPI00762364](#) Mass: 50641 Score: 70 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Krt6a Uncharacterized protein  
[IPI00785403](#) Mass: 59832 Score: 70 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Krt6b keratin, type II cytoskeletal 6B

4. [IPI00348328](#) Mass: 114018 Score: 52 Queries matched: 2 empAI: 0.03  
 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
<a href="#">160</a>	523.7686	1045.5226	1045.4975	24.1	0	14 4.1	2 R.GSGGQVTMPGR.G
<input checked="" type="checkbox"/> <a href="#">348</a>	692.3519	1382.6892	1382.6830	4.51	0	52 0.00046	1 R.SLNQFASFIDK.V

5. [IPI00322209](#) Mass: 54531 Score: 52 Queries matched: 1 empAI: 0.06  
 Tax\_Id=10090 Gene\_Symbol=Krt8 Keratin, type II cytoskeletal 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
<a href="#">348</a>	692.3519	1382.6892	1382.7194	-21.80	1	52 0.00046	1 K.SLNKPFASFIDK.V

6. [IPI00347110](#) Mass: 59502 Score: 46 Queries matched: 4 empAI: 0.06  
 Tax\_Id=10090 Gene\_Symbol=Krt73 Keratin, type II cytoskeletal 73

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"/> <a href="#">281</a>	639.3522	1276.6898	1276.7027	-10.04	0 (18)	1.1	1 K.LALDIEIATYR.K
<input checked="" type="checkbox"/> <a href="#">282</a>	639.3556	1276.6966	1276.7027	-4.71	0	20 0.72	1 K.LALDIEIATYR.K
<input checked="" type="checkbox"/> <a href="#">284</a>	639.3583	1276.7020	1276.7027	-0.48	0 (19)	0.73	1 K.LALDIEIATYR.K
<input checked="" type="checkbox"/> <a href="#">401</a>	738.3970	1474.7794	1474.7780	0.99	0	46 0.0016	1 R.FLEQQQVQLQTK.W

Peptide matches not assigned to protein hits: (no details means no match)

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect Rank	Peptide
<input checked="" type="checkbox"/> <a href="#">240</a>	614.8435	1227.6724	1227.6711	1.13	0	36 0.019	1 TSGPPVSELITK
<input checked="" type="checkbox"/> <a href="#">157</a>	523.2830	1044.5514	1044.5564	-4.69	0	32 0.058	1 INDITLNSR
<input checked="" type="checkbox"/> <a href="#">156</a>	523.2830	1044.5514	1044.5564	-4.69	0	30 0.098	1 INDITLNSR
<input checked="" type="checkbox"/> <a href="#">155</a>	523.2829	1044.5512	1044.5564	-4.89	0	30 0.1	1 INDITLNSR
<input checked="" type="checkbox"/> <a href="#">103</a>	421.7574	841.5002	841.4810	22.9	0	27 0.11	1 LGTWLPR
<input checked="" type="checkbox"/> <a href="#">109</a>	428.7642	855.5138	855.4814	37.9	0	24 0.22	1 LGAETLPR
<input checked="" type="checkbox"/> <a href="#">102</a>	421.7571	841.4996	841.4810	22.1	0	20 0.5	1 LGTWLPR

170	533.2635	1064.5124	1064.5138	-1.28	0	20	0.68	1	AQYEDIAQK
534	851.4528	1700.8910	1700.8985	-4.39	0	20	0.64	1	AVFVBLEPTVIDEVR
104	423.2249	844.4352	844.4515	-19.22	1	19	1.7	1	AIRENSR
67	741.4396	740.4323	740.4657	-45.07	1	19	0.54	1	RLVTPR
245	616.3294	1230.6442	1230.6456	-1.06	0	18	1.4	1	ASQEVQEILSK
248	616.7965	1231.5784	1231.5621	13.2	0	18	0.95	1	IANEWEWR
100	421.7558	841.4970	841.4810	19.0	0	18	0.9	1	LGTWLP
391	738.3775	1474.7404	1474.6731	45.7	0	18	1.3	1	MIHTGEKPCVCK + Oxidation (M)
229	601.8072	1201.5998	1201.6302	-25.30	1	17	1.6	1	LGSEGVVEVKR
91	412.7550	823.4954	823.5028	-8.94	1	17	0.55	1	VPSRLPR
378	730.8994	1459.7842	1459.7592	17.2	1	17	1.3	1	DVLEKMELLDQK
86	407.2395	812.4644	812.4756	-13.69	1	17	1.1	1	AGPKALEK
243	615.3023	1228.5900	1228.6241	-27.69	0	16	1.4	1	AVPPHETFGFK
160	523.7686	1045.5226	1045.5597	-35.42	1	16	2.4	1	SGKVFVFSFK
436	785.8358	1569.6570	1569.7245	-43.00	0	16	0.52	1	MSLAESAQYVHR + Oxidation (M)
130	485.7459	969.4772	969.4563	21.6	1	16	1.5	1	HCRDQVR
376	730.8926	1459.7706	1459.7453	17.4	1	16	1.9	1	VDILENRVMDTR
566	894.4688	1786.9230	1786.9070	9.00	0	15	1.9	1	LVCSESEPITCKPQLR
373	728.8590	1455.7034	1455.7569	-36.71	0	15	2.1	1	ALALLEDEEQAVR
99	421.7558	841.4970	841.4810	19.0	0	14	2.1	1	AVLTWPR
110	428.7671	855.5196	855.5112	9.82	1	14	1.8	1	ALRMLPR
158	523.2841	1044.5536	1044.5564	-2.59	0	14	3.7	1	INDITLNSR
79	785.3552	784.3479	784.3868	-49.54	1	14	1.1	1	KDYGFR
149	517.7773	1033.5400	1033.5192	20.1	0	14	3.9	1	LLEFQNDR
175	546.7536	1091.4926	1091.5393	-42.77	1	14	2.2	1	RDMQVNTTK
601	705.0020	2111.9842	2112.0011	-8.01	0	14	1.9	1	TTEQLIEAVNNGDPEAYAK
223	594.3091	1186.6036	1186.6492	-38.39	1	14	3.7	1	MSRAPEILVR + Oxidation (M)
241	614.8456	1227.6766	1227.6711	4.55	0	14	3	1	TSGPPVSELITK
63	363.2190	724.4234	724.4344	-15.10	0	13	1.5	1	RPLSPR
88	412.7511	823.4876	823.4817	7.25	0	13	1.3	1	RPWLPR
254	618.2742	1234.5338	1234.5401	-5.04	0	13	1.8	1	NMSGNVHFEGK + Oxidation (M)
286	639.8024	1277.5902	1277.6265	-28.39	0	13	2.9	1	GTSDHWIGLHR
313	665.3237	1328.6328	1328.5992	25.3	0	13	3.1	1	GLMTIYEDEM
316	665.3463	1328.6780	1328.6547	17.6	0	13	3.7	1	CLPAGPSPEVFR
327	670.8930	1339.7714	1339.7096	46.2	1	13	1.8	1	LSVGGSDPPLKR
258	624.8118	1247.6090	1247.6180	-7.15	1	13	4	1	KLDSTAGMPNSK
154	523.2826	1044.5506	1044.5564	-5.46	0	13	5	1	INDITLNSR
105	423.2271	844.4396	844.4654	-30.50	1	13	6.6	1	SPASKLDK
115	435.7732	869.5318	869.5123	22.5	0	12	2.3	1	VSLWLP
90	412.7530	823.4914	823.4664	30.4	1	12	1.6	1	RDIPPAR
148	517.7643	1033.5140	1033.5040	9.72	0	12	5.8	1	AVDLSSGETR
224	595.3015	1188.5884	1188.6251	-30.83	1	12	5.2	1	EVPPQQAAYR
320	665.3650	1328.7154	1328.6684	35.4	1	12	4.3	1	IAVDQEGKDQAR
535	851.4545	1700.8944	1700.8985	-2.39	0	12	3.7	1	AVFVBLEPTVIDEVR
352	696.3466	1390.6786	1390.7279	-35.39	0	12	4.9	1	QFCLELNLAVK
47	632.3531	631.3458	631.3289	26.8	0	12	14	1	ETNLR
393	738.3797	1474.7448	1474.7528	-5.41	0	12	5.2	1	SGAGSHATHELPAIK
128	476.7454	951.4762	951.4960	-20.78	1	11	5.5	1	MVGQAFRK + Oxidation (M)
392	738.3784	1474.7422	1474.8065	-43.56	1	11	5.6	1	VESLLENMGIKVK + Oxidation (M)
72	379.7110	757.4074	757.3719	47.0	0	11	8.4	1	SSPAGSPR
159	523.3225	1044.6304	1044.5828	45.6	1	11	2.4	1	AARLGSPFAR
321	665.3677	1328.7208	1328.7187	1.60	0	11	4.9	1	NLDLDSIIAEVK
417	768.4241	1534.8336	1534.9096	-49.51	1	11	3.9	1	HFLGGLVPRVSVR
267	630.8173	1259.6200	1259.6357	-12.44	0	11	6.6	1	AVEESITNLER
73	763.4373	762.4300	762.4276	3.20	0	11	6.8	1	LGAPDLK
120	437.7486	873.4826	873.4807	2.18	0	11	8.5	1	ATEDVLVK
165	530.7841	1059.5536	1059.5383	14.5	1	11	8.9	1	AQKMDPSGVK
491	815.3732	1628.7318	1628.7214	6.39	0	11	3.3	1	MGAPAEAGMAEYLFDK
172	545.2977	1088.5808	1088.5714	8.71	0	10	8.6	1	VTDLQGLTK
118	435.7745	869.5344	869.5123	25.5	0	10	3.7	1	VSLWLP
234	605.8242	1209.6338	1209.6466	-10.52	1	10	7.1	1	EPVEQPRVTR
504	816.8955	1631.7764	1631.8242	-29.27	0	10	6.2	1	MHAINGFLFSLNLR + Oxidation (M)
309	659.3605	1316.7064	1316.7010	4.17	0	10	7.1	1	IEMEVEVALLR + Oxidation (M)
198	574.3295	1146.6444	1146.6649	-17.80	0	10	5.7	1	AVALDGTFLFK
145	517.2630	1032.5114	1032.5273	-15.40	1	10	9	1	KEQEQMLK
127	475.2524	948.4902	948.5280	-39.80	0	10	9	1	NYLELVAK
98	421.7497	841.4848	841.4844	0.58	0	9	6.4	1	AAPMLIAR
388	738.3769	1474.7392	1474.6949	30.1	1	9	9.3	1	QMNSFQVAFMK + 2 Oxidation (M)
418	772.8556	1543.6966	1543.6395	37.0	0	9	5.1	1	CSNSADMTGSPFVR + Oxidation (M)
577	901.4461	1800.8776	1800.8328	24.9	0	9	8.5	1	LYGWTMEPVFCQR + Oxidation (M)
150	519.2672	1036.5198	1036.5077	11.7	0	9	10	1	EFDGTEVLK
565	894.4647	1786.9148	1786.9764	-34.43	1	9	9	1	IAPFNLVVMVVDGNR + Oxidation (M)
274	632.3272	1262.6398	1262.6441	-3.40	1	9	11	1	NVTIECPFKR
57	692.3731	691.3658	691.3905	-35.63	0	8	13	1	ATYLPK
89	412.7522	823.4898	823.5280	-46.27	1	8	4	1	TKILPPR
557	883.9029	1765.7912	1765.7789	7.02	1	8	5.5	1	KADSGEDSLGCLNGDTK
554	879.9472	1757.8798	1757.9060	-14.89	1	8	9.3	1	TEHAPSGKLEIQHPK



<a href="#">528</a>	832.3854	1662.7562	1662.8366	-48.31	0	8	7.8	1	FVTLQIWDTAGQER
<a href="#">179</a>	554.2792	1106.5438	1106.5940	-45.33	1	8	13	1	ALCMTLVKR + Oxidation (M)
<a href="#">580</a>	913.9105	1825.8064	1825.8298	-12.82	0	8	5.5	1	EGSVGGSQVAALMMSSQR + 2 Oxidation (M)
<a href="#">375</a>	730.8780	1459.7414	1459.7042	25.5	0	8	12	1	GVSEPLELTDGDK
<a href="#">424</a>	776.8488	1551.6830	1551.7199	-23.73	1	8	6.3	1	CKQLESTQTESNK
<a href="#">632</a>	758.4205	2272.2397	2272.1311	47.8	1	8	4.3	1	GFGFVTFMDQAGVDKVLQSR
<a href="#">371</a>	727.8940	1453.7734	1453.7776	-2.89	0	8	10	1	ISDAVAALDPVDLR
<a href="#">53</a>	327.7028	653.3910	653.3609	46.2	0	8	5.1	1	SAIAHR
<a href="#">399</a>	738.3895	1474.7644	1474.6948	47.2	1	7	12	1	WMVAGKADPEMPK + Oxidation (M)
<a href="#">146</a>	517.2634	1032.5122	1032.4724	38.6	0	7	16	1	VLDEEGSER
<a href="#">273</a>	631.8104	1261.6062	1261.6150	-6.91	1	7	14	1	EASESQNLEKK
<a href="#">453</a>	785.8453	1569.6760	1569.7497	-46.93	1	7	5.7	1	GEMFVLEKGEYPR + Oxidation (M)
<a href="#">676</a>	753.4116	3009.6173	3009.6136	1.21	1	7	4.3	1	YLEYLFVDVELAPPTLVLTQMEKILR + Oxidation (M)
<a href="#">215</a>	590.7988	1179.5830	1179.6111	-23.74	0	7	16	1	TYVCHILFK
<a href="#">361</a>	714.3387	1426.6628	1426.7173	-38.19	1	7	10	1	CAPCRGNGVFPVLK
<a href="#">147</a>	517.2635	1032.5124	1032.4724	38.8	0	7	18	1	VLDEEGSER
<a href="#">307</a>	659.3557	1316.6968	1316.6473	37.6	1	7	16	1	DAREAGFALDPR
<a href="#">247</a>	616.3654	1230.7162	1230.7006	12.7	0	7	7.4	1	QSVVVMGSLAK
<a href="#">484</a>	801.9233	1601.8320	1601.8534	-13.34	1	7	14	1	MPLVHMSFLSIRR + Oxidation (M)
<a href="#">624</a>	737.7004	2210.0794	2210.0585	9.43	1	7	11	1	IITQNALHRAPHYNSCCR
<a href="#">117</a>	435.7735	869.5324	869.4971	40.7	0	7	8.7	1	AVVESLPR
<a href="#">595</a>	693.9965	2078.9677	2078.9700	-1.11	1	6	10	1	MQQHCDLMLNLLKTFR + Oxidation (M)
<a href="#">526</a>	824.3863	1646.7580	1646.7747	-10.12	1	6	13	1	ARLGEASDSELAADAK
<a href="#">71</a>	379.7092	757.4038	757.4082	-5.81	1	6	21	1	DKGVPSR
<a href="#">45</a>	619.2937	618.2864	618.2973	-17.57	0	6	19	1	IEDSR
<a href="#">555</a>	879.9559	1757.8972	1757.8916	3.19	1	6	16	1	QPCILLMDSLRLGPSR + Oxidation (M)
<a href="#">385</a>	738.3738	1474.7330	1474.7780	-30.45	0	6	19	1	SYLRPITEAPSNK
<a href="#">354</a>	701.8492	1401.6838	1401.6783	3.97	1	6	17	1	TRPPKEQSSGCR
<a href="#">116</a>	435.7733	869.5320	869.5222	11.3	0	6	11	1	VTLEALPK
<a href="#">397</a>	738.3874	1474.7602	1474.7524	5.34	0	6	20	1	LPAAGVGMVMATVK + Oxidation (M)
<a href="#">261</a>	625.3146	1248.6146	1248.5809	27.1	0	6	23	1	EGEWQTMIOK
<a href="#">607</a>	707.3361	2118.9865	2119.0629	-36.04	1	6	13	1	CMGPVMVGLRPLTDVVSQF
<a href="#">144</a>	516.3068	1030.5990	1030.5811	17.4	1	5	15	1	AKWLSVAEK
<a href="#">477</a>	795.8834	1589.7522	1589.8096	-36.08	1	5	17	1	SAAGLSMARAVSWQR
<a href="#">279</a>	639.3420	1276.6694	1276.6598	7.55	0	5	24	1	VVVQNQLCFGK
<a href="#">294</a>	647.3664	1292.7182	1292.6976	16.0	0	5	14	1	ISYEPITTLR
<a href="#">444</a>	785.8418	1569.6690	1569.6399	18.6	1	5	7.8	1	MKTECDSEQGETR
<a href="#">364</a>	719.3223	1436.6300	1436.6783	-33.60	0	5	12	1	DNDSYINVQEIK
<a href="#">571</a>	897.9120	1793.8094	1793.8189	-5.28	1	5	14	1	MSGGGDDVVCTGWLK
<a href="#">351</a>	692.3663	1382.7180	1382.7194	-0.98	1	5	21	1	RDIVFAASLYTQ
<a href="#">479</a>	795.8920	1589.7694	1589.8096	-25.27	1	5	21	1	SAAGLSMARAVSWQR
<a href="#">135</a>	505.2794	1008.5442	1008.5716	-27.11	1	5	20	1	AKAHILNDK
<a href="#">239</a>	614.8431	1227.6716	1227.6625	7.43	1	5	24	1	RWGHVTFVAR
<a href="#">510</a>	816.8969	1631.7792	1631.7205	36.0	0	5	23	1	MMTTATSGNIMTTEK + Oxidation (M)
<a href="#">277</a>	633.3164	1264.6182	1264.6187	-0.33	1	5	26	1	DELEFEKEVK
<a href="#">330</a>	672.3507	1342.6868	1342.6915	-3.46	0	5	27	1	MPTGTTVPAGIGK
<a href="#">271</a>	631.8051	1261.5956	1261.5826	10.3	0	4	24	1	EALVDWSGEK
<a href="#">226</a>	599.8269	1197.6392	1197.6183	17.5	0	4	23	1	FLFTTGPHTK
<a href="#">142</a>	516.3029	1030.5912	1030.5519	38.2	1	4	25	1	SARAAEAVTR
<a href="#">169</a>	533.2592	1064.5038	1064.4774	24.8	0	4	26	1	DDVAQENFK
<a href="#">360</a>	711.3236	1420.6326	1420.6318	0.63	0	4	16	1	LTGASSDVEEER
<a href="#">591</a>	1011.4652	2020.9158	2020.9459	-14.85	0	4	13	1	SMSQIYCIENAHGQLVR + Oxidation (M)
<a href="#">342</a>	688.3369	1374.6592	1374.6449	10.4	0	4	26	1	EPGETIVEAMQR + Oxidation (M)
<a href="#">694</a>	855.1420	3416.5389	3416.6612	-35.79	1	4	8.7	1	TTNEGLLYPNPAAQMLVGDSEFARHYFLGR + Oxidation (M)
<a href="#">94</a>	414.2219	826.4292	826.4661	-44.57	0	4	22	1	VAAPNLSR
<a href="#">262</a>	625.3168	1248.6190	1248.5809	30.6	0	4	32	1	DDGMQIWAIAK + Oxidation (M)
<a href="#">572</a>	897.9121	1793.8096	1793.7699	22.2	1	4	19	1	MSYLKTTMEDEESSK + Oxidation (M)
<a href="#">573</a>	897.9143	1793.8140	1793.7699	24.6	1	4	20	1	MSYLKTTMEDEESSK + Oxidation (M)
<a href="#">466</a>	785.8697	1569.7248	1569.7132	7.44	0	4	22	1	EVQESQTQGSQGHR
<a href="#">400</a>	738.3921	1474.7696	1474.7991	-19.95	1	4	29	1	AIEAASSLSQAATK
<a href="#">516</a>	816.8981	1631.7816	1631.8301	-29.68	1	4	29	1	KVASGSAAGPSCSLK
<a href="#">517</a>	816.8984	1631.7822	1631.7205	37.9	0	3	30	1	MMTTATSGNIMTTEK + Oxidation (M)
<a href="#">394</a>	738.3853	1474.7560	1474.7528	2.19	0	3	34	1	SGAGSHATHELPAIK
<a href="#">626</a>	738.0252	2211.0538	2211.0379	7.20	0	3	23	1	GITSFIQHPASTPCEEANPR
<a href="#">167</a>	530.7861	1059.5576	1059.5358	20.7	0	3	50	1	WPMLLNMR
<a href="#">384</a>	738.3727	1474.7308	1474.6737	38.7	0	3	36	1	MFWNLMFPFTTR + 2 Oxidation (M)
<a href="#">638</a>	786.3861	2356.1365	2356.0868	21.1	0	3	21	1	EGQLYAMELQGFWMDIGQPK + Oxidation (M)
<a href="#">570</a>	897.9114	1793.8082	1793.7699	21.4	1	3	22	1	MSYLKTTMEDEESSK + Oxidation (M)
<a href="#">512</a>	816.8972	1631.7798	1631.7865	-4.07	1	3	32	1	CNKEIYVVTESYK
<a href="#">138</a>	513.7487	1025.4828	1025.5142	-30.53	0	3	31	1	QPDPAEELR
<a href="#">675</a>	752.1354	3004.5125	3004.5943	-27.24	1	3	16	1	TFQTFALFLDRLLDGSPLPQEVVMSLSK
<a href="#">134</a>	505.2752	1008.5358	1008.5127	22.9	0	3	34	1	EYLESLOK
<a href="#">21</a>	517.2652	516.2579	516.2656	-14.89	0	3	45	1	AGDVR
<a href="#">644</a>	801.7284	2402.1634	2402.1570	2.67	1	3	27	1	SGLCIEANSRIMELDPNDGALK
<a href="#">576</a>	901.4456	1800.8766	1800.8469	16.5	0	3	37	1	LMPMFLVMVPMISR + 3 Oxidation (M)
<a href="#">119</a>	435.7748	869.5350	869.5123	26.1	0	2	22	1	VSLWLPR
<a href="#">199</a>	574.3331	1146.6516	1146.6649	-11.52	0	2	27	1	VSATFLPTAIK

✓	<a href="#">218</a>	590.8070	1179.5994	1179.5554	37.4	1	2	45	1	AVTKENSEMR + Oxidation (M)
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✓	<a href="#">525</a>	824.3836	1646.7526	1646.8055	-32.08	1	2	32	1	GLRTLCCCLPIER
✓	<a href="#">276</a>	632.3409	1262.6672	1262.7095	-33.45	0	2	44	1	SRPPALEPGALR
✓	<a href="#">292</a>	644.8557	1287.6968	1287.6459	39.6	1	2	42	1	AVTVFVKHDDK
✓	<a href="#">210</a>	587.3012	1172.5878	1172.6149	-23.09	0	2	56	1	LNQEVSQLSR
✓	<a href="#">405</a>	747.8829	1493.7512	1493.6966	36.6	1	2	40	1	NANNINMLKDGMK + 2 Oxidation (M)
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✓	<a href="#">666</a>	958.1300	2871.3682	2871.3536	5.07	1	0	33	1	DVFQRNQDGLSESPGWPAGTIR
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<input checked="" type="checkbox"/>	<a href="#">672</a>	748.3859	2989.5145
<input checked="" type="checkbox"/>	<a href="#">673</a>	748.4033	2989.5841
<input checked="" type="checkbox"/>	<a href="#">674</a>	749.1548	2992.5901
<input checked="" type="checkbox"/>	<a href="#">677</a>	758.6400	3030.5309
<input checked="" type="checkbox"/>	<a href="#">678</a>	1016.1148	3045.3226
<input checked="" type="checkbox"/>	<a href="#">679</a>	1022.4659	3064.3759
<input checked="" type="checkbox"/>	<a href="#">680</a>	1031.4298	3091.2676
<input checked="" type="checkbox"/>	<a href="#">681</a>	774.1323	3092.5001
<input checked="" type="checkbox"/>	<a href="#">682</a>	776.1229	3100.4625
<input checked="" type="checkbox"/>	<a href="#">683</a>	785.6156	3138.4333
<input checked="" type="checkbox"/>	<a href="#">684</a>	786.3461	3141.3553
<input checked="" type="checkbox"/>	<a href="#">685</a>	789.1204	3152.4525
<input checked="" type="checkbox"/>	<a href="#">686</a>	797.1930	3184.7429
<input checked="" type="checkbox"/>	<a href="#">687</a>	810.3776	3237.4813
<input checked="" type="checkbox"/>	<a href="#">688</a>	810.3818	3237.4981
<input checked="" type="checkbox"/>	<a href="#">689</a>	1085.5421	3253.6045
<input checked="" type="checkbox"/>	<a href="#">690</a>	816.9273	3263.6801
<input checked="" type="checkbox"/>	<a href="#">691</a>	823.1737	3288.6657
<input checked="" type="checkbox"/>	<a href="#">692</a>	829.1945	3312.7489
<input checked="" type="checkbox"/>	<a href="#">693</a>	1119.1757	3354.5053
<input checked="" type="checkbox"/>	<a href="#">695</a>	858.6205	3430.4529
<input checked="" type="checkbox"/>	<a href="#">696</a>	869.3155	3473.2329
<input checked="" type="checkbox"/>	<a href="#">697</a>	870.4107	3477.6137
<input checked="" type="checkbox"/>	<a href="#">698</a>	873.2922	3489.1397
<input checked="" type="checkbox"/>	<a href="#">699</a>	1176.4674	3526.3804
<input checked="" type="checkbox"/>	<a href="#">700</a>	886.1975	3540.7609
<input checked="" type="checkbox"/>	<a href="#">701</a>	889.4472	3553.7597
<input checked="" type="checkbox"/>	<a href="#">702</a>	908.3743	3629.4681
<input checked="" type="checkbox"/>	<a href="#">703</a>	914.8817	3655.4977
<input checked="" type="checkbox"/>	<a href="#">704</a>	930.3966	3717.5573
<input checked="" type="checkbox"/>	<a href="#">705</a>	932.3429	3725.3425
<input checked="" type="checkbox"/>	<a href="#">706</a>	944.9282	3775.6837
<input checked="" type="checkbox"/>	<a href="#">707</a>	959.3601	3833.4113
<input checked="" type="checkbox"/>	<a href="#">708</a>	962.2110	3844.8149
<input checked="" type="checkbox"/>	<a href="#">709</a>	968.3356	3869.3133
<input checked="" type="checkbox"/>	<a href="#">710</a>	969.9287	3875.6857
<input checked="" type="checkbox"/>	<a href="#">711</a>	982.5540	3926.1869
<input checked="" type="checkbox"/>	<a href="#">712</a>	1342.2548	4023.7426
<input checked="" type="checkbox"/>	<a href="#">713</a>	1011.4422	4041.7397
<input checked="" type="checkbox"/>	<a href="#">714</a>	1015.4938	4057.9461
<input checked="" type="checkbox"/>	<a href="#">715</a>	1078.9778	4311.8821
<input checked="" type="checkbox"/>	<a href="#">716</a>	1094.4548	4373.7901
<input checked="" type="checkbox"/>	<a href="#">717</a>	1133.5477	4530.1617
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<input checked="" type="checkbox"/>	<a href="#">719</a>	1135.4979	4537.9625
<input checked="" type="checkbox"/>	<a href="#">720</a>	1139.0413	4552.1361
<input checked="" type="checkbox"/>	<a href="#">721</a>	1169.6051	4674.3913
<input checked="" type="checkbox"/>	<a href="#">722</a>	1210.4652	4837.8317
<input checked="" type="checkbox"/>	<a href="#">723</a>	1225.5979	4898.3625
<input checked="" type="checkbox"/>	<a href="#">724</a>	1309.0933	5232.3441
<input checked="" type="checkbox"/>	<a href="#">725</a>	1359.3607	5433.4137

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### Search Parameters

Type of search : MS/MS Ion Search  
Enzyme : Trypsin  
Fixed modifications : Carbamidomethyl (C)  
Variable modifications : Oxidation (M)  
Mass values : Monoisotopic  
Protein Mass : Unrestricted  
Peptide Mass Tolerance :  $\pm$  50 ppm



Fragment Mass Tolerance:  $\pm$  0.2 Da  
Max Missed Cleavages : 1  
Instrument type : ESI-QUAD-TOF  
Number of queries : 725

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



## Mascot Search Results

User : Dominic  
 Email : dominic.kurian@bbsrc.ac.uk  
 Search title : IPI Mouse\_15-02-2010  
 MS data file : C:\Program Files\Matrix Science\Mascot Daemon\mgf\33 10753\mascot\_daemon\_merge.mgf  
 Database : IPI\_mouse MOUSE\_v3\_79 (54943 sequences; 24917557 residues)  
 Timestamp : 15 Feb 2011 at 12:03:54 GMT  
 Protein hits :

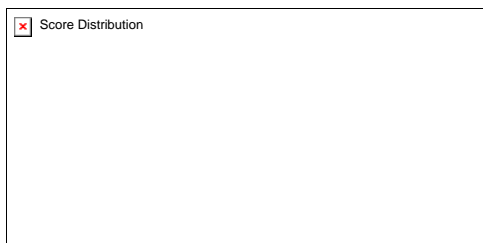
- [IPI00420725](#) Tax\_Id=10090 Gene\_Symbol=Camk2a Uncharacterized protein
- [IPI00474502](#) Tax\_Id=10090 Gene\_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase type II subunit beta
- [IPI00117352](#) Tax\_Id=10090 Gene\_Symbol=Tubb5 Tubulin beta-5 chain
- [IPI00112584](#) Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit
- [IPI00608020](#) Tax\_Id=10090 Gene\_Symbol=Ftl1 ferritin light chain 1
- [IPI00109061](#) Tax\_Id=10090 Gene\_Symbol=Tubb2b Tubulin beta-2B chain
- [IPI00169463](#) Tax\_Id=10090 Gene\_Symbol=Tubb2c Tubulin beta-2C chain
- [IPI00124695](#) Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit
- [IPI00117348](#) Tax\_Id=10090 Gene\_Symbol=Tuba1b Tubulin alpha-1B chain
- [IPI00230145](#) Tax\_Id=10090 Gene\_Symbol=Fth1 Ferritin heavy chain
- [IPI00112251](#) Tax\_Id=10090 Gene\_Symbol=Tubb3 Tubulin beta-3 chain
- [IPI00115546](#) Tax\_Id=10090 Gene\_Symbol=Gnao1 Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) subunit alpha
- [IPI00138892](#) Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin-60S ribosomal protein L40
- [IPI00122048](#) Tax\_Id=10090 Gene\_Symbol=Atpla3 Sodium/potassium-transporting ATPase subunit alpha-3
- [IPI00121038](#) Tax\_Id=10090 Gene\_Symbol=Vcan Isoform V0 of Versican core protein
- [IPI00621468](#) Tax\_Id=10090 Gene\_Symbol=Gm7866 similar to ubiquitin A-52 residue ribosomal protein fusion product 1
- [IPI00110850](#) Tax\_Id=10090 Gene\_Symbol=Actb Actin, cytoplasmic 1
- [IPI00136929](#) Tax\_Id=10090 Gene\_Symbol=Actg1 Gamma actin-like protein
- [IPI00123176](#) Tax\_Id=10090 Gene\_Symbol=Gm6316 Glyceraldehyde-3-phosphate dehydrogenase
- [IPI00114642](#) Tax\_Id=10090 Gene\_Symbol=Hist1h2bn;Hist1h2bl;Hist1h2bj;Hist1h2bf Histone H2B type 1-F/J/L
- [IPI00380227](#) Tax\_Id=10090 Gene\_Symbol=Nrgn Neurogranin
- [IPI00135106](#) Tax\_Id=10090 Gene\_Symbol=Mobp Isoform 1 of Myelin-associated oligodendrocyte basic protein
- [IPI00221528](#) Tax\_Id=10090 Gene\_Symbol=Actb12 Beta-actin-like protein 2
- [IPI00136703](#) Tax\_Id=10090 Gene\_Symbol=Ckb Creatine kinase B-type
- [IPI00404590](#) Tax\_Id=10090 Gene\_Symbol=Hlf0 Putative uncharacterized protein
- [IPI00131366](#) Tax\_Id=10090 Gene\_Symbol=Krt6b Keratin, type II cytoskeletal 6B
- [IPI00348094](#) Tax\_Id=10090 Gene\_Symbol=Tubb1 Tubulin, beta 1
- [IPI00229525](#) Tax\_Id=10090 Gene\_Symbol=Gnal Guanine nucleotide-binding protein G(olf) subunit alpha
- [IPI00118569](#) Tax\_Id=10090 Gene\_Symbol=Gna13 Guanine nucleotide-binding protein subunit alpha-13
- [IPI00119067](#) Tax\_Id=10090 Gene\_Symbol=Tppp Tubulin polymerization-promoting protein

### IPI\_mouse [Decoy](#) False discovery rate

Peptide matches above identity threshold	111	2	1.80 %
Peptide matches above homology or identity threshold	121	3	2.48 %

### 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 > 37 indicate identity or extensive homology ( $p < 0.01$ ).  
 Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



### Peptide Summary Report

Format As  [Help](#)  
 Significance threshold  $p < 0.01$  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. [IPI00420725](#) Mass: 55882 Score: 921 Queries matched: 37 emPAI: 1.23  
 Tax\_Id=10090 Gene\_Symbol=Camk2a Uncharacterized 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"/> <a href="#">155</a>	445.2853	444.2780	444.2696	18.9	0	5	23	1	K.GAAVK.L
<input checked="" type="checkbox"/> <a href="#">414</a>	432.7276	863.4406	863.4501	-10.97	0	20	1.1	1	R.SGAPSVLPH.-
<a href="#">424</a>	446.2583	890.5020	890.5086	-7.40	1	8	12	2	K.GAFSVVRR.C
<a href="#">441</a>	452.2508	902.4870	902.4895	-2.74	0	4	41	2	K.MLTINPSK.R
<input checked="" type="checkbox"/> <a href="#">502</a>	525.2626	1048.5106	1048.5553	-42.57	0	53	0.0004	1	K.VLAGQEYAAK.I
<a href="#">503</a>	525.2869	1048.5592	1048.5553	3.78	0	(3)	38	3	K.VLAGQEYAAK.I
<input checked="" type="checkbox"/> <a href="#">510</a>	530.2837	1058.5528	1058.5906	-35.68	1	(40)	0.0088	1	K.MLTINPSKR.I
<input checked="" type="checkbox"/> <a href="#">511</a>	530.2865	1058.5584	1058.5906	-30.39	1	(47)	0.002	1	K.MLTINPSKR.I

<input checked="" type="checkbox"/>	<a href="#">512</a>	530.2960	1058.5774	1058.5906	-12.44	1	(42)	0.0056	1	K.MLTINPSKR.I
<input checked="" type="checkbox"/>	<a href="#">513</a>	530.3043	1058.5940	1058.5906	3.24	1	47	0.0014	1	K.MLTINPSKR.I
<input checked="" type="checkbox"/>	<a href="#">529</a>	538.2988	1074.5830	1074.5855	-2.32	1	(43)	0.0044	1	K.MLTINPSKR.I + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">530</a>	538.3007	1074.5868	1074.5855	1.22	1	(43)	0.0046	1	K.MLTINPSKR.I + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">531</a>	538.3033	1074.5920	1074.5855	6.06	1	(44)	0.0033	1	K.MLTINPSKR.I + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">554</a>	574.3305	1146.6464	1146.6431	2.95	0	(46)	0.0012	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/>	<a href="#">563</a>	582.3281	1162.6416	1162.6380	3.15	0	83	2.8e-007	1	K.GAILTTMLATR.N + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">564</a>	582.3326	1162.6506	1162.6380	10.9	0	(10)	5	1	K.GAILTTMLATR.N + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">601</a>	631.2774	1260.5402	1260.5927	-41.64	0	(42)	0.0017	1	R.FYFENLWSR.N
<input checked="" type="checkbox"/>	<a href="#">602</a>	631.2971	1260.5796	1260.5927	-10.39	0	54	0.00022	1	R.FYFENLWSR.N
<input checked="" type="checkbox"/>	<a href="#">603</a>	631.2980	1260.5814	1260.5927	-8.96	0	(8)	9.1	1	R.FYFENLWSR.N
<input checked="" type="checkbox"/>	<a href="#">630</a>	652.3443	1302.6740	1302.6932	-14.70	0	(49)	0.0011	1	R.ITQYLDAGGIPR.T
<input checked="" type="checkbox"/>	<a href="#">631</a>	652.3544	1302.6942	1302.6932	0.81	0	(61)	5.6e-005	1	R.ITQYLDAGGIPR.T
<input checked="" type="checkbox"/>	<a href="#">632</a>	652.3555	1302.6964	1302.6932	2.50	0	105	2.4e-009	1	R.ITQYLDAGGIPR.T
<input checked="" type="checkbox"/>	<a href="#">656</a>	670.8677	1339.7208	1339.7711	-37.49	0	(77)	1.1e-006	1	R.DLKPENLLASK.L
<input checked="" type="checkbox"/>	<a href="#">657</a>	670.8842	1339.7538	1339.7711	-12.86	0	78	7.5e-007	1	R.DLKPENLLASK.L
<input checked="" type="checkbox"/>	<a href="#">658</a>	447.5925	1339.7557	1339.7711	-11.49	0	(59)	6e-005	1	R.DLKPENLLASK.L
<input checked="" type="checkbox"/>	<a href="#">799</a>	816.8861	1631.7576	1631.7719	-8.72	0	66	1.5e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">800</a>	816.8922	1631.7698	1631.7719	-1.25	0	(64)	2.3e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">801</a>	816.8947	1631.7748	1631.7719	1.82	0	(7)	12	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">802</a>	816.8953	1631.7760	1631.7719	2.55	0	(63)	3.3e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">832</a>	1040.9640	2079.9134	2079.9426	-13.99	0	78	5.2e-007	1	K.AGAYDFPSPEDVTVPEAK.D
<input checked="" type="checkbox"/>	<a href="#">908</a>	783.7256	2348.1550	2348.1689	-5.91	1	(26)	0.13	1	R.FTEEYQLFEELGKGFVSVV.R
<input checked="" type="checkbox"/>	<a href="#">909</a>	783.7288	2348.1646	2348.1689	-1.82	1	125	1.7e-011	1	R.FTEEYQLFEELGKGFVSVV.R
<input checked="" type="checkbox"/>	<a href="#">910</a>	783.7297	2348.1673	2348.1689	-0.67	1	(52)	0.00031	1	R.FTEEYQLFEELGKGFVSVV.R
<input checked="" type="checkbox"/>	<a href="#">928</a>	888.7346	2663.1820	2663.2755	-35.12	1	(94)	1.1e-008	1	K.AGAYDFPSPEDVTVPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">929</a>	1332.6436	2663.2726	2663.2755	-1.07	1	(59)	5.1e-005	1	K.AGAYDFPSPEDVTVPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">930</a>	888.7660	2663.2762	2663.2755	0.25	1	100	4.3e-009	1	K.AGAYDFPSPEDVTVPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">931</a>	888.7662	2663.2768	2663.2755	0.48	1	(95)	1.3e-008	1	K.AGAYDFPSPEDVTVPEAKDLINK.M

## Proteins matching the same set of peptides:

[IPI00621806](#) Mass: 54651 Score: 921 Queries matched: 37

Tax\_Id=10090 Gene\_Symbol=Camk2a Isoform Alpha CaMKII of Calcium/calmodulin-dependent protein kinase type II subunit alpha

2. [IPI00474502](#) Mass: 61164 Score: 816 Queries matched: 31 emPAI: 1.57

Tax\_Id=10090 Gene\_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase type II subunit 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	
<a href="#">155</a>	445.2853	444.2780	444.2696	18.9	0	5	23	1	K.GAAVK.L	
<a href="#">424</a>	446.2583	890.5020	890.5086	-7.40	1	8	12	2	K.GAFVSVV.R.C	
<input checked="" type="checkbox"/>	<a href="#">489</a>	510.2411	1018.4676	1018.4688	-1.14	0	37	0.011	1	R.STVASMHR.Q
<input checked="" type="checkbox"/>	<a href="#">495</a>	518.2553	1034.4960	1034.4637	31.2	0	(28)	0.13	1	R.STVASMHR.Q + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">552</a>	572.8067	1143.5988	1143.5964	2.12	0	(22)	0.54	1	R.FYFENLLAK.N
<input checked="" type="checkbox"/>	<a href="#">553</a>	572.8070	1143.5994	1143.5964	2.65	0	23	0.44	1	R.FYFENLLAK.N
<input checked="" type="checkbox"/>	<a href="#">554</a>	574.3305	1146.6464	1146.6431	2.95	0	(46)	0.0012	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/>	<a href="#">563</a>	582.3281	1162.6416	1162.6380	3.15	0	83	2.8e-007	1	K.GAILTTMLATR.N + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">564</a>	582.3326	1162.6506	1162.6380	10.9	0	(10)	5	1	K.GAILTTMLATR.N + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">596</a>	623.3240	1244.6334	1244.6361	-2.11	0	63	4e-005	1	K.ADGVKPQTNSTK.N
<input checked="" type="checkbox"/>	<a href="#">656</a>	670.8677	1339.7208	1339.7711	-37.49	0	(77)	1.1e-006	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">657</a>	670.8842	1339.7538	1339.7711	-12.86	0	78	7.5e-007	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">658</a>	447.5925	1339.7557	1339.7711	-11.49	0	(59)	6e-005	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">680</a>	458.5831	1372.7275	1372.7310	-2.59	1	(2)	51	7	K.KADGKVPQTNSTK.N
<input checked="" type="checkbox"/>	<a href="#">681</a>	687.3759	1372.7372	1372.7310	4.53	1	41	0.0061	1	K.KADGKVPQTNSTK.N
<input checked="" type="checkbox"/>	<a href="#">688</a>	468.5813	1402.7221	1402.7317	-6.87	0	(26)	0.16	1	R.LTQYIDGQGRPR.T
<input checked="" type="checkbox"/>	<a href="#">689</a>	468.5816	1402.7230	1402.7317	-6.23	0	(40)	0.0067	1	R.LTQYIDGQGRPR.T
<input checked="" type="checkbox"/>	<a href="#">690</a>	702.3738	1402.7330	1402.7317	0.96	0	(37)	0.015	1	R.LTQYIDGQGRPR.T
<input checked="" type="checkbox"/>	<a href="#">691</a>	702.3776	1402.7406	1402.7317	6.38	0	51	0.00048	1	R.LTQYIDGQGRPR.T
<input checked="" type="checkbox"/>	<a href="#">707</a>	743.4136	1484.8126	1484.8021	7.13	0	75	1.7e-006	1	K.NLINQMLTINPAK.R + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">786</a>	810.8771	1619.7396	1619.7355	2.56	0	66	1.4e-005	1	R.FTDEYQLYEDIGK.G
<input checked="" type="checkbox"/>	<a href="#">787</a>	810.8881	1619.7616	1619.7355	16.1	0	(29)	0.068	1	R.FTDEYQLYEDIGK.G
<input checked="" type="checkbox"/>	<a href="#">794</a>	542.6372	1624.8898	1624.9082	-11.37	1	89	5.7e-008	1	K.NLINQMLTINPAK.R.I
<input checked="" type="checkbox"/>	<a href="#">795</a>	813.4636	1624.9126	1624.9082	2.71	1	(55)	9.8e-005	1	K.NLINQMLTINPAK.R.I
<input checked="" type="checkbox"/>	<a href="#">883</a>	1040.9640	2079.9134	2079.9426	-13.99	0	78	5.2e-007	1	K.AGAYDFPSPEDVTVPEAK.N
<input checked="" type="checkbox"/>	<a href="#">890</a>	1056.9772	2111.9398	2112.0011	-29.00	0	(1)	25	1	K.TTEQLIEAVNNGDFEAYAK.I
<input checked="" type="checkbox"/>	<a href="#">891</a>	1057.0093	2112.0040	2112.0011	1.40	0	95	1.6e-008	1	K.TTEQLIEAVNNGDFEAYAK.I
<input checked="" type="checkbox"/>	<a href="#">906</a>	779.7075	2336.1007	2336.1325	-13.61	1	(59)	5.7e-005	1	R.FTDEYQLYEDIGKGFVSVV.R
<input checked="" type="checkbox"/>	<a href="#">907</a>	779.7144	2336.1214	2336.1325	-4.75	1	124	1.7e-011	1	R.FTDEYQLYEDIGKGFVSVV.R
<input checked="" type="checkbox"/>	<a href="#">911</a>	1177.0757	2352.1368	2352.1301	2.86	0	128	7.5e-012	1	R.QTTAPATMSTAASGTTMGLVEQAK.S
<input checked="" type="checkbox"/>	<a href="#">912</a>	1185.0782	2368.1418	2368.1250	7.10	0	(118)	6.1e-011	1	R.QTTAPATMSTAASGTTMGLVEQAK.S + Oxidation (M)

## Proteins matching the same set of peptides:

[IPI00649778](#) Mass: 73827 Score: 816 Queries matched: 31

Tax\_Id=10090 Gene\_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase II, beta, isoform CRA\_b

[IPI00875723](#) Mass: 68686 Score: 816 Queries matched: 31

Tax\_Id=10090 Gene\_Symbol=Camk2b 68 kDa protein

3. [IPI00117352](#) Mass: 50095 Score: 504 Queries matched: 18 emPAI: 1.15

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
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<input checked="" type="checkbox"/>	557	580.3218	1158.6290	1158.6219	6.13	0	48	0.0012	1	K.LAVNMFVPPR.L + Oxidation (M)
<input checked="" type="checkbox"/>	643	660.3592	1318.7038	1318.6955	6.32	0	63	3.3e-005	1	R.IMNTFSVVPSPK.V
<input checked="" type="checkbox"/>	653	668.3525	1334.6904	1334.6904	0.01	0	(8)	12	1	R.IMNTFSVVPSPK.V + Oxidation (M)
<input checked="" type="checkbox"/>	654	668.3532	1334.6918	1334.6904	1.06	0	(4)	28	4	R.IMNTFSVVPSPK.V + Oxidation (M)
<input checked="" type="checkbox"/>	783	808.4200	1614.8254	1614.8287	-2.02	0	(49)	0.00091	1	R.AILVDLEPGTMDSVR.S
<input checked="" type="checkbox"/>	788	540.9453	1619.8141	1619.8283	-8.76	0	(53)	0.00031	1	R.LHFFMPGFAPLTSR.G
<input checked="" type="checkbox"/>	789	810.9224	1619.8302	1619.8283	1.23	0	57	0.00013	1	R.LHFFMPGFAPLTSR.G
<input checked="" type="checkbox"/>	790	810.9226	1619.8306	1619.8283	1.47	0	(45)	0.0019	1	R.LHFFMPGFAPLTSR.G
<input checked="" type="checkbox"/>	797	816.4169	1630.8192	1630.8236	-2.68	0	59	0.0001	1	R.AILVDLEPGTMDSVR.S + Oxidation (M)
<input checked="" type="checkbox"/>	808	830.4500	1658.8854	1658.8879	-1.50	0	62	3.2e-005	1	R.ALTVPQLTQVFDK.N
<input checked="" type="checkbox"/>	819	848.9158	1695.8170	1695.8257	-5.07	0	64	2.6e-005	1	K.NSSYFVEWIPNVK.T
<input checked="" type="checkbox"/>	820	848.9227	1695.8308	1695.8257	3.06	0	(47)	0.0013	1	K.NSSYFVEWIPNVK.T
<input checked="" type="checkbox"/>	877	653.6544	1957.9414	1957.9745	-16.94	0	(41)	0.0039	1	K.GHYTEGAEVLVSLDVVR.K
<input checked="" type="checkbox"/>	878	980.0190	1958.0234	1957.9745	25.0	0	101	4.2e-009	1	K.GHYTEGAEVLVSLDVVR.K
<input checked="" type="checkbox"/>	936	933.4480	2797.3222	2797.3361	-4.99	0	(89)	4.3e-008	1	R.SGPFQGIIFRPDNFVFGQSGAGNNWAK.G
<input checked="" type="checkbox"/>	937	933.4524	2797.3354	2797.3361	-0.27	0	99	5.2e-009	1	R.SGPFQGIIFRPDNFVFGQSGAGNNWAK.G
<input checked="" type="checkbox"/>	938	1399.6794	2797.3442	2797.3361	2.91	0	(71)	2.9e-006	1	R.SGPFQGIIFRPDNFVFGQSGAGNNWAK.G
<input checked="" type="checkbox"/>	939	933.4583	2797.3531	2797.3361	6.06	0	(34)	0.016	1	R.SGPFQGIIFRPDNFVFGQSGAGNNWAK.G

4. [IPI00112584](#) Mass: 56961 Score: 475 Queries matched: 21 emPAI: 0.66  
 Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit 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	
<a href="#">155</a>	445.2853	444.2780	444.2696	18.9	0	5	23	1	K.GAAVK.L	
<a href="#">424</a>	446.2583	890.5020	890.5086	-7.40	1	8	12	2	K.GAFSVVRR.C	
<a href="#">489</a>	510.2411	1018.4676	1018.4688	-1.14	0	37	0.011	1	R.STVASMMHR.Q	
<a href="#">495</a>	518.2553	1034.4960	1034.4637	31.2	0	(28)	0.13	1	R.STVASMMHR.Q + Oxidation (M)	
<a href="#">510</a>	530.2837	1058.5528	1058.5906	-35.68	1	6	24	3	K.MLTINPAKR.I + Oxidation (M)	
<a href="#">513</a>	530.3043	1058.5940	1058.5906	3.24	1	(5)	20	8	K.MLTINPAKR.I + Oxidation (M)	
<input checked="" type="checkbox"/>	<a href="#">547</a>	559.7811	1117.5476	1117.5444	2.92	0	20	0.77	1	R.FYFENALSK.S
<input checked="" type="checkbox"/>	<a href="#">548</a>	559.7846	1117.5546	1117.5444	9.18	0	(17)	1.8	1	R.FYFENALSK.S
<a href="#">554</a>	574.3305	1146.6464	1146.6431	2.95	0	(46)	0.0012	1	K.GAILTTMLATR.N	
<a href="#">563</a>	582.3281	1162.6416	1162.6380	3.15	0	83	2.8e-007	1	K.GAILTTMLATR.N + Oxidation (M)	
<a href="#">564</a>	582.3326	1162.6506	1162.6380	10.9	0	(10)	5	1	K.GAILTTMLATR.N + Oxidation (M)	
<a href="#">656</a>	670.8677	1339.7208	1339.7711	-37.49	0	(77)	1.1e-006	1	R.DLKPENLLLASK.S	
<a href="#">657</a>	670.8842	1339.7538	1339.7711	-12.86	0	78	7.5e-007	1	R.DLKPENLLLASK.S	
<a href="#">658</a>	447.5925	1339.7557	1339.7711	-11.49	0	(59)	6e-005	1	R.DLKPENLLLASK.S	
<input checked="" type="checkbox"/>	<a href="#">785</a>	809.8809	1617.7472	1617.7562	-5.56	0	52	0.00035	1	R.FTDEYQLFEELGK.G
<a href="#">883</a>	1040.9640	2079.9134	2079.9426	-13.99	0	78	5.2e-007	1	K.AGAYDFPSPEDVTPEAK.D	
<input checked="" type="checkbox"/>	<a href="#">905</a>	779.0534	2334.1384	2334.1532	-6.36	1	26	0.11	1	R.FTDEYQLFEELGKGAFSVVR.R
<a href="#">928</a>	888.7346	2663.1820	2663.2755	-35.12	1	(94)	1.1e-008	1	K.AGAYDFPSPEDVTPEAKDLINK.M	
<a href="#">929</a>	1332.6436	2663.2726	2663.2755	-1.07	1	(59)	5.1e-005	1	K.AGAYDFPSPEDVTPEAKDLINK.M	
<a href="#">930</a>	888.7660	2663.2762	2663.2755	0.25	1	100	4.3e-009	1	K.AGAYDFPSPEDVTPEAKDLINK.M	
<a href="#">931</a>	888.7662	2663.2768	2663.2755	0.48	1	(95)	1.3e-008	1	K.AGAYDFPSPEDVTPEAKDLINK.M	

Proteins matching the same set of peptides:

[IPI00406790](#) Mass: 60593 Score: 475 Queries matched: 21  
 Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 4 of Calcium/calmodulin-dependent protein kinase type II subunit delta  
[IPI00475044](#) Mass: 55899 Score: 475 Queries matched: 21  
 Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 2 of Calcium/calmodulin-dependent protein kinase type II subunit delta  
[IPI00828919](#) Mass: 58492 Score: 475 Queries matched: 21  
 Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 3 of Calcium/calmodulin-dependent protein kinase type II subunit delta  
[IPI00857865](#) Mass: 54664 Score: 475 Queries matched: 21  
 Tax\_Id=10090 Gene\_Symbol=Camk2d Putative uncharacterized protein  
[IPI00858128](#) Mass: 58283 Score: 475 Queries matched: 21  
 Tax\_Id=10090 Gene\_Symbol=Camk2d calcium/calmodulin-dependent protein kinase type II subunit delta isoform 1  
[IPI00858144](#) Mass: 55828 Score: 475 Queries matched: 21  
 Tax\_Id=10090 Gene\_Symbol=Camk2d 55 kDa protein

5. [IPI00608020](#) Mass: 20817 Score: 452 Queries matched: 12 emPAI: 1.11  
 Tax\_Id=10090 Gene\_Symbol=Ft11 ferritin light chain 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"/>	<a href="#">633</a>	652.8418	1303.6690	1303.6633	4.42	1	29	0.097	1	R.LLEFQNDRGR.A
<input checked="" type="checkbox"/>	<a href="#">705</a>	740.8561	1479.6976	1479.6954	1.55	0	(90)	6.4e-008	1	R.QNYSTEVEAAVNR.L
<input checked="" type="checkbox"/>	<a href="#">706</a>	740.8602	1479.7058	1479.6954	7.09	0	95	1.8e-008	1	R.QNYSTEVEAAVNR.L
<input checked="" type="checkbox"/>	<a href="#">829</a>	569.3081	1704.9025	1704.9271	-14.43	0	84	2e-007	1	K.NLNQALLDLHALGSAR.A
<input checked="" type="checkbox"/>	<a href="#">830</a>	569.3106	1704.9100	1704.9271	-10.03	0	(83)	2.1e-007	1	K.NLNQALLDLHALGSAR.A
<input checked="" type="checkbox"/>	<a href="#">831</a>	853.4784	1704.9422	1704.9271	8.90	0	(32)	0.018	1	K.NLNQALLDLHALGSAR.A
<input checked="" type="checkbox"/>	<a href="#">832</a>	853.4784	1704.9422	1704.9271	8.90	0	(31)	0.027	1	K.NLNQALLDLHALGSAR.A
<input checked="" type="checkbox"/>	<a href="#">919</a>	843.7637	2528.2693	2528.2772	-3.13	1	84	1.4e-007	1	R.RVAGPQPAQTGAPQGSGLGEYLFER.L
<input checked="" type="checkbox"/>	<a href="#">953</a>	820.6315	3278.4969	3278.5587	-18.86	1	(72)	1.3e-006	1	R.ALFQDVQKPSQDEWGKTQEAMEAALAMEK.N
<input checked="" type="checkbox"/>	<a href="#">954</a>	820.6387	3278.5257	3278.5587	-10.07	1	(20)	0.28	1	R.ALFQDVQKPSQDEWGKTQEAMEAALAMEK.N
<input checked="" type="checkbox"/>	<a href="#">955</a>	820.6396	3278.5293	3278.5587	-8.97	1	(79)	3.8e-007	1	R.ALFQDVQKPSQDEWGKTQEAMEAALAMEK.N
<input checked="" type="checkbox"/>	<a href="#">957</a>	820.6479	3278.5625	3278.5587	1.15	1	84	1.1e-007	1	R.ALFQDVQKPSQDEWGKTQEAMEAALAMEK.N

Proteins matching the same set of peptides:

[IPI00762203](#) Mass: 20847 Score: 452 Queries matched: 12  
 Tax\_Id=10090 Gene\_Symbol=Ft11 Ferritin light chain 1

6. [IPI00109061](#) Mass: 50377 Score: 449 Queries matched: 16 emPAI: 0.88

Tax\_Id=10090 Gene\_Symbol=Tubb2b Tubulin beta-2B 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
<a href="#">557</a>	580.3218	1158.6290	1158.6219	6.13	0	48	0.0012	1	K.LAVNMVPPFR.L + Oxidation (M)
<a href="#">783</a>	808.4200	1614.8254	1614.8287	-2.02	0	(49)	0.00091	1	R.AILVDLEPGTMDSVR.S
<a href="#">788</a>	540.9453	1619.8141	1619.8283	-8.76	0	(53)	0.00031	1	R.LHFFMPGFAPLTSR.G
<a href="#">789</a>	810.9224	1619.8302	1619.8283	1.23	0	57	0.00013	1	R.LHFFMPGFAPLTSR.G
<a href="#">790</a>	810.9226	1619.8306	1619.8283	1.47	0	(45)	0.0019	1	R.LHFFMPGFAPLTSR.G
<a href="#">797</a>	816.4169	1630.8192	1630.8236	-2.68	0	59	0.0001	1	R.AILVDLEPGTMDSVR.S + Oxidation (M)
<a href="#">819</a>	848.9158	1695.8170	1695.8257	-5.07	0	64	2.6e-005	1	K.NSSYFVEWIPNNVK.T
<a href="#">820</a>	848.9227	1695.8308	1695.8257	3.06	0	(47)	0.0013	1	K.NSSYFVEWIPNNVK.T
<a href="#">833</a>	<b>854.4404</b>	<b>1706.8662</b>	<b>1706.8549</b>	<b>6.64</b>	<b>0</b>	<b>28</b>	<b>0.092</b>	<b>2</b>	<b>R.ALTVPQLTQQMFDK.N</b>
<a href="#">877</a>	653.6544	1957.9414	1957.9745	-16.94	0	(41)	0.0039	1	K.GHYTEGAEVLVSDVLR.K
<a href="#">878</a>	980.0190	1958.0234	1957.9745	25.0	0	101	4.2e-009	1	K.GHYTEGAEVLVSDVLR.K
<a href="#">936</a>	933.4480	2797.3222	2797.3361	-4.99	0	(89)	4.3e-008	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G
<a href="#">937</a>	933.4524	2797.3354	2797.3361	-0.27	0	99	5.2e-009	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G
<a href="#">938</a>	1399.6794	2797.3442	2797.3361	2.91	0	(71)	2.9e-006	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G
<a href="#">939</a>	933.4583	2797.3531	2797.3361	6.06	0	(34)	0.016	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G
<input checked="" type="checkbox"/> <a href="#">951</a>	<b>776.3458</b>	<b>3101.3541</b>	<b>3101.4003</b>	<b>-14.89</b>	<b>0</b>	<b>9</b>	<b>2.8</b>	<b>1</b>	<b>K.FWEVISDEHGIDPTGSHGSDLQLER.I</b>

Proteins matching the same set of peptides:

[IPI00338039](#) Mass: 50274 Score: 449 Queries matched: 16

Tax\_Id=10090 Gene\_Symbol=Tubb2a Tubulin beta-2A chain

7. [IPI00169463](#) Mass: 50255 Score: 446 Queries matched: 17 emPAI: 1.01

Tax\_Id=10090 Gene\_Symbol=Tubb2c Tubulin beta-2C 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
<a href="#">557</a>	580.3218	1158.6290	1158.6219	6.13	0	48	0.0012	1	K.LAVNMVPPFR.L + Oxidation (M)
<a href="#">643</a>	660.3592	1318.7038	1318.6955	6.32	0	63	3.3e-005	1	R.IMNTFVSPK.V
<a href="#">653</a>	668.3525	1334.6904	1334.6904	0.01	0	(8)	12	1	R.IMNTFVSPK.V + Oxidation (M)
<a href="#">654</a>	668.3532	1334.6918	1334.6904	1.06	0	(4)	28	4	R.IMNTFVSPK.V + Oxidation (M)
<a href="#">788</a>	540.9453	1619.8141	1619.8283	-8.76	0	(53)	0.00031	1	R.LHFFMPGFAPLTSR.G
<a href="#">789</a>	810.9224	1619.8302	1619.8283	1.23	0	57	0.00013	1	R.LHFFMPGFAPLTSR.G
<a href="#">790</a>	810.9226	1619.8306	1619.8283	1.47	0	(45)	0.0019	1	R.LHFFMPGFAPLTSR.G
<input checked="" type="checkbox"/> <a href="#">816</a>	<b>846.4307</b>	<b>1690.8468</b>	<b>1690.8600</b>	<b>-7.78</b>	<b>0</b>	<b>43</b>	<b>0.0034</b>	<b>1</b>	<b>R.ALTVPQLTQQMFDK.N</b>
<a href="#">819</a>	848.9158	1695.8170	1695.8257	-5.07	0	64	2.6e-005	1	K.NSSYFVEWIPNNVK.T
<a href="#">820</a>	848.9227	1695.8308	1695.8257	3.06	0	(47)	0.0013	1	K.NSSYFVEWIPNNVK.T
<input checked="" type="checkbox"/> <a href="#">833</a>	<b>854.4404</b>	<b>1706.8662</b>	<b>1706.8549</b>	<b>6.64</b>	<b>0</b>	<b>(38)</b>	<b>0.0095</b>	<b>1</b>	<b>R.ALTVPQLTQQMFDK.N + Oxidation (M)</b>
<a href="#">877</a>	653.6544	1957.9414	1957.9745	-16.94	0	(41)	0.0039	1	K.GHYTEGAEVLVSDVLR.K
<a href="#">878</a>	980.0190	1958.0234	1957.9745	25.0	0	101	4.2e-009	1	K.GHYTEGAEVLVSDVLR.K
<a href="#">936</a>	933.4480	2797.3222	2797.3361	-4.99	0	(89)	4.3e-008	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G
<a href="#">937</a>	933.4524	2797.3354	2797.3361	-0.27	0	99	5.2e-009	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G
<a href="#">938</a>	1399.6794	2797.3442	2797.3361	2.91	0	(71)	2.9e-006	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G
<a href="#">939</a>	933.4583	2797.3531	2797.3361	6.06	0	(34)	0.016	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G

8. [IPI00124695](#) Mass: 60254 Score: 412 Queries matched: 18 emPAI: 0.79

Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 1 of Calcium/calmodulin-dependent protein kinase type II 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
<a href="#">155</a>	445.2853	444.2780	444.2696	18.9	0	5	23	1	K.GAAVK.L
<a href="#">424</a>	446.2583	890.5020	890.5086	-7.40	1	8	12	2	K.GAFSVVRR.C
<a href="#">489</a>	510.2411	1018.4676	1018.4688	-1.14	0	37	0.011	1	R.STVASMMHR.Q
<a href="#">495</a>	518.2553	1034.4960	1034.4637	31.2	0	(28)	0.13	1	R.STVASMMHR.Q + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">549</a>	<b>563.7897</b>	<b>1125.5648</b>	<b>1125.5666</b>	<b>-1.53</b>	<b>1</b>	<b>50</b>	<b>0.00076</b>	<b>1</b>	<b>K.KTSTQEYAAK.I</b>
<a href="#">558</a>	580.8033	1159.5920	1159.5913	0.61	0	2	56	6	K.FYFENLLSK.N
<a href="#">656</a>	670.8677	1339.7208	1339.7711	-37.49	0	(77)	1.1e-006	1	R.DLKPENLLLASK.C
<a href="#">657</a>	670.8842	1339.7538	1339.7711	-12.86	0	78	7.5e-007	1	R.DLKPENLLLASK.C
<a href="#">658</a>	447.5925	1339.7557	1339.7711	-11.49	0	(59)	6e-005	1	R.DLKPENLLLASK.C
<a href="#">688</a>	468.5813	1402.7221	1402.7317	-6.87	0	(26)	0.16	1	R.LTQYIDGQGRPR.T
<a href="#">689</a>	468.5816	1402.7230	1402.7317	-6.23	0	(40)	0.0067	1	R.LTQYIDGQGRPR.T
<a href="#">690</a>	702.3738	1402.7330	1402.7317	0.96	0	(37)	0.015	1	R.LTQYIDGQGRPR.T
<a href="#">691</a>	702.3776	1402.7406	1402.7317	6.38	0	51	0.00048	1	R.LTQYIDGQGRPR.T
<a href="#">707</a>	743.4136	1484.8126	1484.8021	7.13	0	75	1.7e-006	1	K.NLINQMLTINPAK.R + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">782</a>	<b>802.8676</b>	<b>1603.7206</b>	<b>1603.7406</b>	<b>-12.44</b>	<b>0</b>	<b>90</b>	<b>3.8e-008</b>	<b>1</b>	<b>R.FTDDYQLFEELGK.G</b>
<a href="#">794</a>	542.6372	1624.8898	1624.9082	-11.37	1	89	5.7e-008	1	K.NLINQMLTINPAK.R.I
<a href="#">795</a>	813.4636	1624.9126	1624.9082	2.71	1	(55)	9.8e-005	1	K.NLINQMLTINPAK.R.I
<a href="#">883</a>	1040.9640	2079.9134	2079.9426	-13.99	0	78	5.2e-007	1	K.AGAYDFPSPEDWTVTPEAK.N

Proteins matching the same set of peptides:

[IPI00228044](#) Mass: 59013 Score: 412 Queries matched: 18

Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 2 of Calcium/calmodulin-dependent protein kinase type II subunit gamma

[IPI00228045](#) Mass: 56610 Score: 412 Queries matched: 18

Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 3 of Calcium/calmodulin-dependent protein kinase type II subunit gamma

9. [IPI00117348](#) Mass: 50804 Score: 341 Queries matched: 12 emPAI: 0.46

Tax\_Id=10090 Gene\_Symbol=Tubalb Tubulin alpha-1B 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"/> <a href="#">708</a>	<b>744.4436</b>	<b>1486.8726</b>	<b>1486.8719</b>	<b>0.52</b>	<b>0</b>	<b>90</b>	<b>2.2e-008</b>	<b>1</b>	<b>R.LISQVSSITASLR.F</b>
<input checked="" type="checkbox"/> <a href="#">822</a>	<b>851.4536</b>	<b>1700.8926</b>	<b>1700.8985</b>	<b>-3.45</b>	<b>0</b>	<b>64</b>	<b>2.3e-005</b>	<b>1</b>	<b>R.AVFVLEPTVIDEVR.T</b>
<input checked="" type="checkbox"/> <a href="#">823</a>	<b>851.4573</b>	<b>1700.9000</b>	<b>1700.8985</b>	<b>0.90</b>	<b>0</b>	<b>(60)</b>	<b>5.7e-005</b>	<b>1</b>	<b>R.AVFVLEPTVIDEVR.T</b>

<input checked="" type="checkbox"/>	<a href="#">841</a>	878.9860	1755.9574	1755.9559	0.86	0	67	8.3e-006	1	R.IHFPPLATYAPVISAEK.A
<input checked="" type="checkbox"/>	<a href="#">842</a>	878.9954	1755.9762	1755.9559	11.6	0	(66)	9.9e-006	1	R.IHFPPLATYAPVISAEK.A
<input checked="" type="checkbox"/>	<a href="#">857</a>	912.9819	1823.9492	1823.9782	-15.85	0	(26)	0.13	1	K.VGINYQPPTVVPGGDLAK.V
<input checked="" type="checkbox"/>	<a href="#">858</a>	913.0020	1823.9894	1823.9782	6.19	0	29	0.054	1	K.VGINYQPPTVVPGGDLAK.V
<input checked="" type="checkbox"/>	<a href="#">914</a>	1205.1045	2408.1944	2408.2012	-2.82	0	128	7.5e-012	1	R.FDGNLVDLTFEQTNLVPYPR.I
<input checked="" type="checkbox"/>	<a href="#">915</a>	604.5469	2414.1585	2414.1978	-16.29	1	(39)	0.0058	1	R.QLFHPPEQLITGKEDAANNYAR.G
<input checked="" type="checkbox"/>	<a href="#">916</a>	604.5476	2414.1613	2414.1978	-15.13	1	54	0.0002	1	R.QLFHPPEQLITGKEDAANNYAR.G
<input checked="" type="checkbox"/>	<a href="#">917</a>	604.5506	2414.1733	2414.1978	-10.16	1	(24)	0.19	1	R.QLFHPPEQLITGKEDAANNYAR.G
<input checked="" type="checkbox"/>	<a href="#">918</a>	604.5528	2414.1821	2414.1978	-6.52	1	(18)	0.68	1	R.QLFHPPEQLITGKEDAANNYAR.G

## Proteins matching the same set of peptides:

[IPI00129028](#) Mass: 50689 Score: 341 Queries matched: 12  
Tax\_Id=10090 Gene\_Symbol=Gm5620 Uncharacterized protein  
[IPI00403810](#) Mass: 50562 Score: 341 Queries matched: 12  
Tax\_Id=10090 Gene\_Symbol=Tubalc Tubulin alpha-1C chain

10. [IPI00230145](#) Mass: 21224 Score: 297 Queries matched: 10 emPAI: 1.09  
Tax\_Id=10090 Gene\_Symbol=Fth1 Ferritin heavy 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"/>	<a href="#">605</a>	423.2317	1266.6733	1266.6932	-15.71	0	58	9.9e-005	1	K.SVNQSLLELHK.L
<input checked="" type="checkbox"/>	<a href="#">606</a>	634.3522	1266.6898	1266.6932	-2.63	0	(57)	0.0001	1	K.SVNQSLLELHK.L
<input checked="" type="checkbox"/>	<a href="#">607</a>	634.3550	1266.6954	1266.6932	1.79	0	(57)	9.5e-005	1	K.SVNQSLLELHK.L
<input checked="" type="checkbox"/>	<a href="#">718</a>	765.3590	1528.7034	1528.7018	1.06	0	(64)	1.9e-005	1	R.QNYHQDAEAAINR.Q
<input checked="" type="checkbox"/>	<a href="#">719</a>	765.3598	1528.7050	1528.7018	2.11	0	72	3e-006	1	R.QNYHQDAEAAINR.Q
<input checked="" type="checkbox"/>	<a href="#">920</a>	641.5282	2562.0837	2562.1155	-12.42	1	(41)	0.0013	1	K.MGAPEAGMAEYLFDKHTLGHGDES.-
<input checked="" type="checkbox"/>	<a href="#">921</a>	855.0369	2562.0889	2562.1155	-10.40	1	(26)	0.045	1	K.MGAPEAGMAEYLFDKHTLGHGDES.-
<input checked="" type="checkbox"/>	<a href="#">922</a>	641.5305	2562.0929	2562.1155	-8.83	1	(13)	0.83	1	K.MGAPEAGMAEYLFDKHTLGHGDES.-
<input checked="" type="checkbox"/>	<a href="#">923</a>	855.0422	2562.1048	2562.1155	-4.19	1	111	1.6e-010	1	K.MGAPEAGMAEYLFDKHTLGHGDES.-
<input checked="" type="checkbox"/>	<a href="#">924</a>	855.0442	2562.1108	2562.1155	-1.85	1	(46)	0.00051	1	K.MGAPEAGMAEYLFDKHTLGHGDES.-

11. [IPI00112251](#) Mass: 50842 Score: 277 Queries matched: 14 emPAI: 0.76  
Tax\_Id=10090 Gene\_Symbol=Tubb3 Tubulin beta-3 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
<a href="#">557</a>	580.3218	1158.6290	1158.6219	6.13	0	48	0.0012	1	K.LAVNMVPPFR.L + Oxidation (M)
<a href="#">643</a>	660.3592	1318.7038	1318.6955	6.32	0	63	3.3e-005	1	R.IMNTFSVVPSPK.V
<a href="#">653</a>	668.3525	1334.6904	1334.6904	0.01	0	(8)	12	1	R.IMNTFSVVPSPK.V + Oxidation (M)
<a href="#">654</a>	668.3532	1334.6918	1334.6904	1.06	0	(4)	28	4	R.IMNTFSVVPSPK.V + Oxidation (M)
<a href="#">783</a>	808.4200	1614.8254	1614.8287	-2.02	0	(49)	0.00091	1	R.AILVDLEPGTMDSVR.S
<a href="#">789</a>	810.9224	1619.8302	1619.8283	1.23	0	18	0.99	2	R.LHFFMPGFAPLTAR.G + Oxidation (M)
<a href="#">790</a>	810.9226	1619.8306	1619.8283	1.47	0	(17)	1.3	2	R.LHFFMPGFAPLTAR.G + Oxidation (M)
<a href="#">797</a>	816.4169	1630.8192	1630.8236	-2.68	0	59	0.0001	1	R.AILVDLEPGTMDSVR.S + Oxidation (M)
<a href="#">816</a>	846.4307	1690.8468	1690.8600	-7.78	0	43	0.0034	1	R.ALTVPPELTQQMFDK.N
<a href="#">819</a>	848.9158	1695.8170	1695.8257	-5.07	0	64	2.6e-005	1	K.NSSYFVEWIPNNVK.V
<a href="#">820</a>	848.9227	1695.8308	1695.8257	3.06	0	(47)	0.0013	1	K.NSSYFVEWIPNNVK.V
<a href="#">833</a>	854.4404	1706.8662	1706.8549	6.64	0	(38)	0.0095	1	R.ALTVPPELTQQMFDK.N + Oxidation (M)
<a href="#">877</a>	653.6544	1957.9414	1957.9745	-16.94	0	(41)	0.0039	1	K.GHYTEGAEVLDSVLDVVR.K
<a href="#">878</a>	980.0190	1958.0234	1957.9745	25.0	0	101	4.2e-009	1	K.GHYTEGAEVLDSVLDVVR.K

12. [IPI00115546](#) Mass: 40524 Score: 212 Queries matched: 4 emPAI: 0.27  
Tax\_Id=10090 Gene\_Symbol=Gnaol Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) 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"/>	<a href="#">509</a>	529.3168	1056.6190	1056.6179	1.10	0	45	0.0021	1	K.LLLLGAGESGK.S
<input checked="" type="checkbox"/>	<a href="#">811</a>	838.4183	1674.8220	1674.8213	0.44	0	98	1.1e-008	1	R.IGAGDYQTEQDILR.T
<input checked="" type="checkbox"/>	<a href="#">812</a>	838.4184	1674.8222	1674.8213	0.56	0	(59)	8.4e-005	1	R.IGAGDYQTEQDILR.T
<input checked="" type="checkbox"/>	<a href="#">876</a>	979.4533	1956.8920	1956.8631	14.8	0	106	9.8e-010	1	R.MEDTEPFSAEILLSAMMR.L

## Proteins matching the same set of peptides:

[IPI00230192](#) Mass: 40629 Score: 212 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Gnaol Isoform Alpha-1 of Guanine nucleotide-binding protein G(o) subunit alpha

13. [IPI00138892](#) Mass: 15004 Score: 171 Queries matched: 3 emPAI: 0.51  
Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin-60S ribosomal protein L40

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"/>	<a href="#">712</a>	762.3933	1522.7720	1522.7740	-1.25	1	(66)	1.8e-005	1	K.IQDKEGIPPPQQR.L
<input checked="" type="checkbox"/>	<a href="#">713</a>	762.4007	1522.7868	1522.7740	8.47	1	83	3.2e-007	1	K.IQDKEGIPPPQQR.L
<input checked="" type="checkbox"/>	<a href="#">881</a>	663.0222	1986.0448	1986.0521	-3.68	1	86	1.3e-007	1	K.TITLEVEPSTIENVKAK.I

## Proteins matching the same set of peptides:

[IPI00470152](#) Mass: 18282 Score: 171 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Rps27a Ubiquitin-40S ribosomal protein S27a  
[IPI00895319](#) Mass: 22277 Score: 171 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=2810422J05Rik 22 kDa protein  
[IPI00895479](#) Mass: 27181 Score: 171 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=2810422J05Rik 27 kDa protein

[IPI00918763](#) Mass: 11021 Score: 171 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin subunit 1  
[IPI00750889](#) Mass: 22822 Score: 171 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Ubc Ubc protein  
[IPI00923013](#) Mass: 26603 Score: 171 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Ubb Ubiquitin B  
[IPI00923037](#) Mass: 22578 Score: 171 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Ubc Putative uncharacterized protein  
[IPI00139518](#) Mass: 34348 Score: 171 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Ubb Polyubiquitin-B  
[IPI00969323](#) Mass: 82603 Score: 171 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Ubc Polyubiquitin-C  
[IPI00755916](#) Mass: 82614 Score: 171 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Ubc ubiquitin

14. [IPI00122048](#) Mass: 113045 Score: 130 Queries matched: 4 emPAI: 0.09  
Tax\_Id=10090 Gene\_Symbol=Atpla3 Sodium/potassium-transporting ATPase subunit alpha-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"/> 592	618.8615	1235.7084	1235.6986	7.96	0	40	0.0032	1	R.LNIPVSVQVNR.D
<input checked="" type="checkbox"/> 859	915.4680	1828.9214	1828.9167	2.62	0	109	7.1e-010	1	K.GVGIISSEGNETVEDIAAR.L
<input checked="" type="checkbox"/> 944	956.1194	2865.3364	2865.3490	-4.42	1	42	0.0022	1	K.EQPLDEEMKEAFQNAVYLELGLGER.V
<input checked="" type="checkbox"/> 945	956.1257	2865.3553	2865.3490	2.18	1	(31)	0.03	1	K.EQPLDEEMKEAFQNAVYLELGLGER.V

Proteins matching the same set of peptides:

[IPI00752412](#) Mass: 117548 Score: 130 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Atpla3 ATPase, Na+/K+ transporting, alpha 3 polypeptide, isoform CRA\_c

15. [IPI00121038](#) Mass: 368613 Score: 123 Queries matched: 2 emPAI: 0.02  
Tax\_Id=10090 Gene\_Symbol=Vcan Isoform V0 of Versican core 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"/> 639	657.8640	1313.7134	1313.7092	3.26	0	81	5e-007	1	R.LATVGLQAQAWR.N
<input checked="" type="checkbox"/> 694	709.3778	1416.7410	1416.7283	9.03	1	73	4.4e-006	1	K.METSPPVKGSLSGK.V

Proteins matching the same set of peptides:

[IPI00230441](#) Mass: 264594 Score: 123 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Vcan Isoform V1 of Versican core protein  
[IPI00469172](#) Mass: 76209 Score: 123 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Vcan versican core protein isoform 4  
[IPI00469565](#) Mass: 180325 Score: 123 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Vcan versican core protein isoform 3  
[IPI00473932](#) Mass: 41850 Score: 123 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Vcan versican core protein isoform 5  
[IPI00656277](#) Mass: 41758 Score: 123 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Vcan Versican  
[IPI00875672](#) Mass: 368720 Score: 123 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Vcan versican core protein isoform 1

16. [IPI00621468](#) Mass: 23411 Score: 114 Queries matched: 3 emPAI: 0.14  
Tax\_Id=10090 Gene\_Symbol=Gm7866 similar to ubiquitin A-52 residue ribosomal protein fusion product 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
<a href="#">712</a>	762.3933	1522.7720	1522.7740	-1.25	1	(66)	1.8e-005	1	K.IQDKEGIPPDQQR.L
<a href="#">713</a>	762.4007	1522.7868	1522.7740	8.47	1	83	3.2e-007	1	K.IQDKEGIPPDQQR.L
<input checked="" type="checkbox"/> 836	582.9590	1745.8552	1745.8402	8.59	0	7		13	K.QPTAALIMMTALMEK.I + 3 Oxidation (M)

17. [IPI00110850](#) Mass: 42052 Score: 107 Queries matched: 6 emPAI: 0.16  
Tax\_Id=10090 Gene\_Symbol=Actb Actin, cytoplasmic 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"/> 576	599.8588	1197.7030	1197.6982	4.03	0	24	0.13	1	R.AVFPISIVGRPR.H
<a href="#">791</a>	812.4296	1622.8446	1622.8338	6.70	1	3		30	R.LDLAQRDLTDYLMK.I
<input checked="" type="checkbox"/> 849	895.9518	1789.8890	1789.8846	2.47	0	21	0.43	1	K.SYELPDGQVITIGNER.F
<a href="#">874</a>	652.0251	1953.0535	1953.0571	-1.86	0	5		12	R.VAPEHPVLLTEAPLNPK.A
<input checked="" type="checkbox"/> 897	1108.0496	2214.0846	2214.0627	9.92	0	71	3.8e-006	1	K.DLYANTVLSGGTTYPIGIADR.M
<input checked="" type="checkbox"/> 952	796.6569	3182.5985	3182.6071	-2.69	0	67	5.2e-006	1	R.TTGIVMDSGDGVTHVPIYEGYALPHAILR.L

Proteins matching the same set of peptides:

[IPI00473320](#) Mass: 42115 Score: 107 Queries matched: 6  
Tax\_Id=10090 Gene\_Symbol=Actb Putative uncharacterized protein  
[IPI00652436](#) Mass: 42053 Score: 107 Queries matched: 6  
Tax\_Id=10090 Gene\_Symbol=Actg1 Putative uncharacterized protein  
[IPI00874482](#) Mass: 42108 Score: 107 Queries matched: 6  
Tax\_Id=10090 Gene\_Symbol=Actg1 Actin, cytoplasmic 2

18. [IPI00136929](#) Mass: 44029 Score: 107 Queries matched: 5 emPAI: 0.16  
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
<a href="#">791</a>	812.4296	1622.8446	1622.8338	6.70	1	3	30	3	R.LDLAGRDLTDYLMK.I
<a href="#">849</a>	895.9518	1789.8890	1789.8846	2.47	0	21	0.43	1	K.SYELPDGQVITIGNER.F
<a href="#">874</a>	652.0251	1953.0535	1953.0571	-1.86	0	5	12	2	R.VAPEEHPVLLTEAPLNPK.R
<a href="#">897</a>	1108.0496	2214.0846	2214.0627	9.92	0	71	3.8e-006	1	K.DLYANTVLSGGTMYPLADR.M
<a href="#">952</a>	796.6569	3182.5985	3182.6071	-2.69	0	67	5.2e-006	1	R.TTGIVMDSGDGVTHTVPIEYALPHAILR.L

19. [IPI00123176](#) Mass: 36804 Score: 99 Queries matched: 3 emPAI: 0.19  
Tax\_Id=10090 Gene\_Symbol=Gm6316 Glyceraldehyde-3-phosphate dehydrogenase

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"/> <a href="#">678</a>	685.3767	1368.7388	1368.7361	2.01	0	51	0.00049	1	R.GAAQNIIPASTGAAK.A
<input checked="" type="checkbox"/> <a href="#">679</a>	685.3803	1368.7460	1368.7361	7.27	0	(27)	0.1	1	R.GAAQNIIPASTGAAK.A
<input checked="" type="checkbox"/> <a href="#">846</a>	890.4040	1778.7934	1778.7900	1.95	0	85	1.4e-007	1	K.LISWYDNEYGYSNR.M

**Proteins matching the same set of peptides:**

[IPI00135284](#) Mass: 36092 Score: 99 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Gm16374 Glyceraldehyde-3-phosphate dehydrogenase  
[IPI00271869](#) Mass: 36293 Score: 99 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00273646](#) Mass: 36072 Score: 99 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Gapdh;LOC100042025 Glyceraldehyde-3-phosphate dehydrogenase  
[IPI00622795](#) Mass: 36074 Score: 99 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00752289](#) Mass: 36308 Score: 99 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Gm10290 Glyceraldehyde-3-phosphate dehydrogenase  
[IPI00848801](#) Mass: 36100 Score: 99 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00849045](#) Mass: 36072 Score: 99 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00850337](#) Mass: 44633 Score: 99 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=LOC100048117 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1  
[IPI00850377](#) Mass: 35975 Score: 99 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00850779](#) Mass: 36076 Score: 99 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00874682](#) Mass: 36038 Score: 99 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00874964](#) Mass: 36512 Score: 99 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein

20. [IPI00114642](#) Mass: 13928 Score: 97 Queries matched: 1 emPAI: 0.25  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bn;Hist1h2bl;Hist1h2bj;Hist1h2bf Histone H2B type 1-F/J/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"/> <a href="#">835</a>	872.4168	1742.8190	1742.8120	4.05	0	97	1.2e-008	1	K.AMGIMNSFVNDIFER.I

**Proteins matching the same set of peptides:**

[IPI00124518](#) Mass: 13359 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist2h2bb Hist2h2bb protein  
[IPI00134534](#) Mass: 14879 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Gm11277;Gm13646 Histone H2B  
[IPI00187543](#) Mass: 13985 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist2h2be Histone H2B type 2-E  
[IPI00227930](#) Mass: 13912 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bh Histone H2B type 1-H  
[IPI00229539](#) Mass: 17248 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist3h2bb-ps histone H2B type 3-B  
[IPI00265768](#) Mass: 13912 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bk Histone H2B type 1-K  
[IPI00282266](#) Mass: 13898 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bg;Hist1h2be;Gm9998;Hist1h2bc Histone H2B type 1-C/E/G  
[IPI00282269](#) Mass: 13928 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bm Histone H2B type 1-M  
[IPI00348270](#) Mass: 13912 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist2h2bb Histone H2B type 2-B  
[IPI00453744](#) Mass: 15968 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bp 16 kDa protein  
[IPI00461514](#) Mass: 14987 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Gm13646 Histone H2B  
[IPI00553774](#) Mass: 13986 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist3h2ba Histone H2B type 3-A  
[IPI00554853](#) Mass: 13944 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bb Histone H2B type 1-B  
[IPI00648991](#) Mass: 13984 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bp Isoform 1 of Histone H2B type 1-P  
[IPI00761713](#) Mass: 15555 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bp Isoform 2 of Histone H2B type 1-P  
[IPI00874492](#) Mass: 14746 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bm 15 kDa protein  
[IPI00874654](#) Mass: 14787 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bg;Hist1h2be;Gm9998;Hist1h2bc Histone H2B



[IPI00874970](#) Mass: 14951 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bn;Hist1h2bl;Hist1h2bj;Hist1h2bf Histone H2B

[IPI00875277](#) Mass: 14242 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bk 14 kDa protein

[IPI00875523](#) Mass: 14900 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bh Histone H2B

[IPI00875901](#) Mass: 14806 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bk Histone H2B

[IPI00876167](#) Mass: 14126 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bn;Hist1h2bl;Hist1h2bj;Hist1h2bf 14 kDa protein

[IPI00876432](#) Mass: 14148 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bn;Hist1h2bl;Hist1h2bj;Hist1h2bf Histone H2B

[IPI00876549](#) Mass: 14902 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Hist1h2bn;Hist1h2bl;Hist1h2bj;Hist1h2bf Histone H2B

[IPI00876550](#) Mass: 14812 Score: 97 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=- 15 kDa protein

21. [IPI00380227](#) Mass: 7720 Score: 76 Queries matched: 1 emPAI: 0.45  
Tax\_Id=10090 Gene\_Symbol=Nrgn Neurogranin

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"/> <a href="#">573</a>	596.8132	1191.6118	1191.6109	0.81	1	76	2.1e-006	1	R.KGPGGGGGGAGGAR.G

22. [IPI00135106](#) Mass: 19584 Score: 71 Queries matched: 4 emPAI: 0.61  
Tax\_Id=10090 Gene\_Symbol=Mobp Isoform 1 of Myelin-associated oligodendrocyte basic 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
<a href="#">435</a>	449.7448	897.4750	897.4781	-3.35	1	3	33	7	R.GGSPTRAPR.F
<input checked="" type="checkbox"/> <a href="#">477</a>	498.7868	995.5590	995.5586	0.46	0	46	0.0011	1	K.SPLMPAKPR.S
<input checked="" type="checkbox"/> <a href="#">546</a>	557.8030	1113.5914	1113.5891	2.14	1	38	0.012	1	R.SSPLRGGTSR.G
<input checked="" type="checkbox"/> <a href="#">559</a>	580.8307	1159.6468	1159.6462	0.56	0	48	0.00095	1	K.HQPAASPVVVR.A

23. [IPI00221528](#) Mass: 42319 Score: 67 Queries matched: 4 emPAI: 0.08  
Tax\_Id=10090 Gene\_Symbol=Actb12 Beta-actin-like 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
<a href="#">791</a>	812.4296	1622.8446	1622.8338	6.70	1	3	30	3	R.LDLAGRDLTDYLMK.I
<a href="#">849</a>	895.9518	1789.8890	1789.8846	2.47	0	21	0.43	1	R.SYELPDGQVITIGNER.F
<input checked="" type="checkbox"/> <a href="#">874</a>	652.0251	1953.0535	1953.0571	-1.86	0	6	10	1	R.VAPDEHPILLTEAPLNPK.I
<a href="#">952</a>	796.6569	3182.5985	3182.6071	-2.69	0	67	5.2e-006	1	R.TTGIVMDSGDGVTHVPIYEGYALPHAILR.L

24. [IPI00136703](#) Mass: 42971 Score: 58 Queries matched: 1 emPAI: 0.08  
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"/> <a href="#">807</a>	828.9211	1655.8276	1655.8188	5.31	0	58	9.4e-005	1	R.LEQQQAIDDLMPAQK.-

25. [IPI00404590](#) Mass: 19412 Score: 53 Queries matched: 2 emPAI: 0.38  
Tax\_Id=10090 Gene\_Symbol=H1f0 Putative uncharacterized 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"/> <a href="#">514</a>	530.7678	1059.5210	1059.5196	1.33	0	42	0.0063	1	K.VGENADSQIK.L
<input checked="" type="checkbox"/> <a href="#">624</a>	651.3369	1300.6592	1300.6623	-2.32	0	48	0.0013	1	M.TENSTSAAPAKPK.R

Proteins matching the same set of peptides:

[IPI00467914](#) Mass: 20848 Score: 53 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=H1f0 Histone H1.0

26. [IPI00131366](#) Mass: 60627 Score: 50 Queries matched: 1 emPAI: 0.05  
Tax\_Id=10090 Gene\_Symbol=Krt6b Keratin, type II cytoskeletal 6B

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"/> <a href="#">627</a>	651.8530	1301.6914	1301.7078	-12.58	0	50	0.00072	1	R.SLDLDSIIAEVK.A

Proteins matching the same set of peptides:

[IPI00131368](#) Mass: 59641 Score: 50 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Krt6a Keratin, type II cytoskeletal 6A

[IPI00139301](#) Mass: 61957 Score: 50 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Krt5 Keratin, type II cytoskeletal 5

[IPI00221797](#) Mass: 59932 Score: 50 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Krt75 Keratin, type II cytoskeletal 75

[IPI00330480](#) Mass: 35315 Score: 50 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=- 35 kDa protein

[IPI00470126](#) Mass: 60553 Score: 50 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Krt5 Uncharacterized protein

[IPI00762364](#) Mass: 50641 Score: 50 Queries matched: 1

Tax\_Id=10090 Gene\_Symbol=Krt6a Uncharacterized protein  
[IPI00785403](#) Mass: 59832 Score: 50 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Krt6b keratin, type II cytoskeletal 6B

27. [IPI00348094](#) Mass: 51093 Score: 48 Queries matched: 2 emPAI: 0.06

Tax\_Id=10090 Gene\_Symbol=Tubbl Tubulin, 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
<a href="#">557</a>	580.3218	1158.6290	1158.6219	6.13	0	48	0.0012	1	K.LAVNMVFPFR.L + Oxidation (M)
<a href="#">643</a>	660.3592	1318.7038	1318.6955	6.33	0	11	6	2	R.IILNSFVMPSPK.V

28. [IPI00229525](#) Score: 45 Queries matched: 2

Tax\_Id=10090 Gene\_Symbol=Gnal Guanine nucleotide-binding protein G(olf) 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
<a href="#">509</a>	529.3168	1056.6190	1056.6179	1.10	0	45	0.0021	1	R.LLLLGGESGK.S
<a href="#">571</a>	595.8328	1189.6510	1189.6165	29.0	1	0	76	6	R.MHLKQYELL.- + Oxidation (M)

Proteins matching the same set of peptides:

[IPI00272681](#) Score: 45 Queries matched: 2

29. [IPI00118569](#) Mass: 44369 Score: 45 Queries matched: 1 emPAI: 0.07

Tax\_Id=10090 Gene\_Symbol=Gnal3 Guanine nucleotide-binding protein subunit alpha-13

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

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">509</a>	529.3168	1056.6190	1056.6179	1.10	0	45	0.0021	1	K.LLLLGGESGK.S

Proteins matching the same set of peptides:

[IPI00230191](#) Mass: 44238 Score: 45 Queries matched: 1

Tax\_Id=10090 Gene\_Symbol=Gnal2 Guanine nucleotide-binding protein subunit alpha-12

[IPI00649388](#) Mass: 20095 Score: 45 Queries matched: 1

Tax\_Id=10090 Gene\_Symbol=Gnal3 Putative uncharacterized protein

30. [IPI00119067](#) Mass: 23731 Score: 44 Queries matched: 1 emPAI: 0.14

Tax\_Id=10090 Gene\_Symbol=Tppp Tubulin polymerization-promoting 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"/> <a href="#">871</a>	948.9888	1895.9630	1895.9516	6.02	0	44	0.0026	1	R.TITFEQFQALEELAK.K

Peptide matches not assigned to protein hits: (no details means no match)

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> <a href="#">684</a>	696.3746	1390.7346	1390.7245	7.29	0	28	0.094	1	LEGVVFYQPSR
<input checked="" type="checkbox"/> <a href="#">792</a>	812.4532	1622.8918	1622.8992	-4.50	0	28	0.068	1	LAGTQPLEVLEAVQR
<input checked="" type="checkbox"/> <a href="#">685</a>	697.3685	1392.7224	1392.7038	13.4	0	25	0.22	1	ELGGVFYVGPAPR
<input checked="" type="checkbox"/> <a href="#">960</a>	1259.2880	3774.8422	3774.8417	0.12	0	23	0.092	1	ADTPIEEFTPTAFPALQYLESVDEGGVAWQAGLR
<input checked="" type="checkbox"/> <a href="#">595</a>	622.7920	1243.5694	1243.5581	9.10	1	22	0.34	1	ESQAYYDGRR
<input checked="" type="checkbox"/> <a href="#">663</a>	673.8612	1345.7078	1345.6925	11.4	1	22	0.54	1	AGGQGFKMALNPR
<input checked="" type="checkbox"/> <a href="#">404</a>	421.7574	841.5002	841.4810	22.9	0	21	0.48	1	AVLTWPR
<input checked="" type="checkbox"/> <a href="#">515</a>	530.7717	1059.5288	1059.5713	-40.04	0	17	2	1	AGSLAFPELR
<input checked="" type="checkbox"/> <a href="#">304</a>	346.2065	690.3984	690.3912	10.5	1	17	1.4	1	KDVTTK
<input checked="" type="checkbox"/> <a href="#">565</a>	587.8109	1173.6072	1173.6353	-23.93	0	17	2	1	NATITQALTNK
<input checked="" type="checkbox"/> <a href="#">488</a>	508.7708	1015.5270	1015.5298	-2.76	0	16	2.6	1	QHTVTTTK
<input checked="" type="checkbox"/> <a href="#">551</a>	566.2957	1130.5768	1130.5720	4.27	0	16	2.2	1	TTHYGLPQK
<input checked="" type="checkbox"/> <a href="#">496</a>	346.2080	1035.6022	1035.5964	5.55	0	16	0.9	1	KPIPLEDPK
<input checked="" type="checkbox"/> <a href="#">508</a>	529.2868	1056.5590	1056.5716	-11.89	1	15	2.4	1	KPDWDLKR
<input checked="" type="checkbox"/> <a href="#">394</a>	411.2468	820.4790	820.4668	15.0	1	15	1.5	1	RQPAPPR
<input checked="" type="checkbox"/> <a href="#">709</a>	746.3885	1490.7624	1490.7841	-14.54	0	14	2.9	1	VIEDGPEPRPNLR
<input checked="" type="checkbox"/> <a href="#">604</a>	633.3046	1264.5946	1264.6425	-37.83	1	14	2.7	1	FQQEAPHPRR
<input checked="" type="checkbox"/> <a href="#">424</a>	446.2583	890.5020	890.5226	-23.04	1	14	3.3	1	GVQFVIKT
<input checked="" type="checkbox"/> <a href="#">475</a>	329.1741	984.5005	984.4923	8.26	1	14	2.8	1	CVHKQTGR
<input checked="" type="checkbox"/> <a href="#">436</a>	449.7468	897.4790	897.4920	-14.39	0	14	3	1	KPEGKPKD
<input checked="" type="checkbox"/> <a href="#">470</a>	487.3048	972.5950	972.5869	8.38	0	13	1.5	1	VPGHLPVVR
<input checked="" type="checkbox"/> <a href="#">418</a>	441.2692	880.5238	880.5355	-13.24	0	13	1.1	1	RPTVPR
<input checked="" type="checkbox"/> <a href="#">539</a>	551.8070	1101.5994	1101.5455	49.0	1	13	4	1	KDSGYITLR
<input checked="" type="checkbox"/> <a href="#">507</a>	529.2727	1056.5308	1056.5676	-34.77	1	13	3.6	1	QLGDLERAR
<input checked="" type="checkbox"/> <a href="#">634</a>	653.3388	1304.6630	1304.6143	37.4	1	13	4.3	1	LGADMEDLRNR + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">641</a>	659.8417	1317.6688	1317.7115	-32.35	0	12	4.4	1	LLYMAIDGVAPR
<input checked="" type="checkbox"/> <a href="#">723</a>	776.3270	1550.6394	1550.6759	-23.48	1	12	0.97	1	GYDLAFRCSCR
<input checked="" type="checkbox"/> <a href="#">358</a>	780.3290	779.3217	779.3054	20.9	0	12	2	1	ANECMR
<input checked="" type="checkbox"/> <a href="#">615</a>	643.8413	1285.6680	1285.7064	-29.81	1	12	5	1	TIMKDEIAIPR
<input checked="" type="checkbox"/> <a href="#">478</a>	499.2877	996.5608	996.5141	46.9	0	12	3	1	VPWGAQPR
<input checked="" type="checkbox"/> <a href="#">324</a>	743.4591	742.4518	742.4198	43.1	1	12	5.5	1	RGAAVGGP
<input checked="" type="checkbox"/> <a href="#">582</a>	606.7893	1211.5640	1211.6007	-30.23	1	11	4.1	1	DSLAEATRGRH
<input checked="" type="checkbox"/> <a href="#">455</a>	470.7701	939.5256	939.5548	-31.07	1	11	3.5	1	MRKPRPR
<input checked="" type="checkbox"/> <a href="#">519</a>	531.2891	1060.5636	1060.5665	-2.70	0	11	6.6	1	YLLASNAPGR
<input checked="" type="checkbox"/> <a href="#">491</a>	517.2959	1032.5772	1032.6001	-22.17	1	11	5.1	1	KVIAAMTVGK + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">569</a>	595.8130	1189.6114	1189.6489	-31.45	1	11	8	1	KTNIIDSMRLR

683	458.9068	1373.6986	1373.7085	-7.24	1	10	7.5	1	VTAAAMAGNKSTPR
710	756.8234	1511.6322	1511.6939	-40.80	1	10	2.3	1	YYGTMHERVNR
687	699.8989	1397.7832	1397.7263	40.8	1	10	4.7	1	ELKTDNLPNQAR
614	643.3510	1284.6874	1284.7150	-21.41	1	10	6.8	1	QKNSINIQAQAK
480	500.2594	998.5042	998.5509	-46.69	0	10	6.7	1	VQIQQAANK
435	449.7448	897.4750	897.4556	21.7	0	10	7.2	1	DAETPLPR
809	834.9677	1667.9208	1667.8970	14.3	1	10	4.4	1	QPPFPPTHMGPIKLR
301	685.3705	684.3632	684.3667	-5.08	0	10	4.9	1	GAERPR
840	878.4757	1754.9368	1754.9567	-11.28	1	10	4.7	1	ELLDLVASHFNLKEK
594	622.7913	1243.5680	1243.5681	-0.00	1	10	5.4	1	KQGGSPDEPDSK
443	455.2521	908.4896	908.4790	11.8	0	10	6.8	1	ELVMFVR + Oxidation (M)
506	528.7111	1055.4076	1055.4310	-22.17	1	10	1	1	MGNMCSRK + Oxidation (M)
517	530.8016	1059.5886	1059.5672	20.2	1	10	8.9	1	SERDTLLAR
400	417.2493	832.4840	832.4443	47.7	0	9	5.6	1	SLPVDFR
518	530.8044	1059.5942	1059.5672	25.5	1	9	8.5	1	SERDTLLAR
635	653.8335	1305.6524	1305.6751	-17.32	1	9	8.3	1	YEALKEPMVAR
479	499.7479	997.4812	997.4507	30.6	1	9	6.6	1	MAMAMRQK + 2 Oxidation (M)
273	320.1377	638.2608	638.2880	-42.53	0	9	2.7	1	SMVMR + Oxidation (M)
501	523.2865	1044.5584	1044.5101	46.3	1	9	12	1	KGAAGWEGGGR
584	607.3194	1212.6242	1212.6211	2.61	1	9	9.2	1	LSASPSPADRGR
668	678.3817	1354.7488	1354.7820	-24.48	0	9	6.7	1	IVQLLAGVADQTK
680	458.5831	1372.7275	1372.7184	6.58	1	9	9.5	1	QAQHRRRPNR
522	532.2796	1062.5446	1062.4917	49.9	0	9	13	1	AGEMAQWVR + Oxidation (M)
516	530.8014	1059.5882	1059.5672	19.8	1	8	11	1	SERDTLLAR
180	487.3051	486.2978	486.2914	13.2	0	8	19	1	AGAIR
498	520.2791	1038.5436	1038.5458	-2.05	0	8	9.6	1	AQASAPAQAPK
810	838.3979	1674.7812	1674.8246	-25.91	1	8	8.7	1	ALDGLQREAMEELGK + Oxidation (M)
201	518.2473	517.2400	517.2609	-40.29	0	8	9.8	1	AGGTGR
654	668.3532	1334.6918	1334.7050	-9.86	1	8	12	1	DKPLISRTMMK + Oxidation (M)
854	903.4784	1804.9422	1805.0121	-38.69	0	8	9.1	1	MAGLVFLGLLSSGATVAK
538	548.2862	1094.5578	1094.5253	29.8	0	8	11	1	LWVMDMIR + 2 Oxidation (M)
608	639.2949	1276.5752	1276.6380	-49.15	1	8	8	1	GIRTCLICER
426	446.2641	890.5136	890.5226	-10.02	1	8	10	1	GVQFVIKT
454	467.7639	933.5132	933.4702	46.1	0	7	13	1	LSNNMLAR + Oxidation (M)
406	423.2285	844.4424	844.4767	-40.51	0	7	22	1	IGTSLAQR
256	607.3195	606.3122	606.3047	12.4	0	7	15	1	MDVVK + Oxidation (M)
504	525.7818	1049.5490	1049.5943	-43.14	0	7	15	1	VLPFAVLNMK + Oxidation (M)
682	687.8503	1373.6860	1373.6939	-5.73	0	7	15	1	EVYAHAGTTLQGK
537	545.2896	1088.5646	1088.5978	-30.49	1	7	17	1	KDFTVNLPR
442	452.7382	903.4618	903.4522	10.7	1	7	20	1	GAATADSRR
306	350.1603	698.3060	698.3096	-5.09	0	7	4.1	1	SAHGDR
560	581.3129	1160.6112	1160.5859	21.8	0	7	19	1	QMPSTIAIER + Oxidation (M)
460	475.7495	949.4844	949.4406	46.2	0	7	18	1	QEQWFR
567	595.3054	1188.5962	1188.6033	-5.95	1	7	18	1	QMQRSLSPR + Oxidation (M)
503	525.2869	1048.5592	1048.5084	48.5	1	7	17	1	MAGLARGDSR + Oxidation (M)
303	343.7281	685.4416	685.4235	26.5	1	7	12	1	GAKALAR
597	623.3267	1244.6388	1244.5819	45.7	0	7	19	1	QDMPKPSEAR + Oxidation (M)
873	956.4583	1910.9020	1910.9964	-49.39	1	6	11	1	LFEDMGLFEAFKIPVR
572	596.3065	1190.5984	1190.5649	28.2	1	6	19	1	RCSMTGQVPR
664	675.3417	1348.6688	1348.6735	-3.47	0	6	20	1	GADAASPPPVAGSPR
461	476.2360	950.4574	950.4682	-11.33	0	6	18	1	QAPGAHGASR
743	785.8390	1569.6634	1569.6664	-1.90	1	6	5.9	1	WTEGTCCKGSTQCR
593	622.7913	1243.5680	1243.5581	7.97	1	6	13	1	ESQAYYDGRR
293	675.3319	674.3246	674.3347	-14.99	0	6	25	1	SSAASPR
927	881.7323	2642.1751	2642.2348	-22.59	1	6	7.6	1	ENSHPHHHHQPPPPQPGPSGERR
453	463.2427	924.4708	924.4310	43.1	0	6	17	1	FLCACVR
667	677.8867	1353.7588	1353.7001	43.4	1	6	11	1	TESGGALRDLAHLK
213	531.2889	530.2816	530.2635	34.2	0	6	44	1	MAGPR
640	659.3407	1316.6668	1316.6725	-4.26	1	6	24	1	LVKEAFQDDPR
666	676.3508	1350.6870	1350.6271	44.4	1	5	22	1	EAMSKALDPAMR + 2 Oxidation (M)
600	630.3074	1258.6002	1258.6153	-11.97	1	5	19	1	KEVVEEAENGR
329	379.7334	757.4522	757.4698	-23.12	1	5	32	1	KELLQK
558	580.8033	1159.5920	1159.6131	-18.19	1	5	27	1	MQLAELQRR + Oxidation (M)
619	645.8328	1289.6510	1289.7013	-38.97	1	5	24	1	AEGTVMKLAQK + Oxidation (M)
652	667.3491	1332.6836	1332.6972	-10.20	0	5	24	1	LGGLPGPGPMANPR
302	343.2315	684.4484	684.4646	-23.64	1	5	14	1	KAVVIR
677	684.3544	1366.6942	1366.6551	28.6	0	5	22	1	EGMVTFSNTLPR + Oxidation (M)
555	577.2852	1152.5558	1152.5564	-0.45	0	5	22	1	EAFGFEQAVR
850	897.9155	1793.8164	1793.8941	-43.31	1	5	17	1	TERSNTLNTAIVNMSK + Oxidation (M)
441	452.2508	902.4870	902.4709	17.9	1	5	36	1	KSDPELSK
476	496.2224	990.4302	990.4744	-44.54	0	5	12	1	LGGNHSNHR
571	595.8328	1189.6510	1189.6819	-25.93	1	5	27	1	KLFPQDLATR
669	678.8935	1355.7724	1355.7846	-8.98	1	5	16	1	QDPKLLMLLAAK + Oxidation (M)
626	651.8315	1301.6484	1301.6463	1.66	0	4	28	1	KPTAQEDSADLK
934	916.4277	2746.2613	2746.2996	-13.94	1	4	12	1	QAPPQYTFIGELNSMGIWYRMGR + 2 Oxidation (M)
556	577.2904	1152.5662	1152.6147	-42.08	1	4	26	1	LTGRLMFMGK
636	655.3013	1308.5880	1308.5252	48.0	0	4	17	1	DINDQDESSR
520	531.8290	1061.6434	1061.6386	4.60	1	4	7.9	1	SFLILWKR
898	1110.6010	2219.1874	2219.1950	-3.39	1	4	15	1	QLFLEPSQKLEGGPPALPEAR
487	505.7451	1009.4756	1009.4829	-7.15	0	4	24	1	EATPGEPGPR
570	595.8189	1189.6232	1189.6012	18.5	1	4	40	1	KQDIEAVMEK

642	660.3415	1318.6684	1318.6526	12.0	0	4	32	1	LTGAIMHFGNMK
578	604.7988	1207.5830	1207.5615	17.8	1	4	33	1	KGETSAAANMQR + Oxidation (M)
817	847.9592	1693.9038	1693.8423	36.3	0	4	23	1	LRPIYDYLDNGNMK
711	756.8477	1511.6808	1511.6939	-8.65	1	4	21	1	YGTSMHERVNR
425	446.2607	890.5068	890.4875	21.7	1	3	33	1	FQRWVR
791	812.4296	1622.8446	1622.9144	-42.98	0	3	27	1	FSAEILQHIPLSLR
568	595.8109	1189.6072	1189.6489	-34.98	1	3	46	1	KTNIIDSMRLR
305	697.3679	696.3606	696.3919	-44.86	0	3	22	1	LPSQQR
784	809.3986	1616.7826	1616.8279	-27.99	1	3	32	1	KMGNKPHMIQVYR + Oxidation (M)
382	810.4398	809.4325	809.3953	46.0	0	3	24	1	MSLTNTK + Oxidation (M)
271	631.3865	630.3792	630.3813	-3.27	1	3	61	1	KQISR
274	320.1440	638.2734	638.3024	-45.33	0	3	15	1	HLDPAS
947	961.7438	2882.2096	2882.3141	-36.26	0	3	5.7	1	DPGSPQLNQEAMADGVEGTPWSAEKPR + Oxidation (M)
879	980.4991	1958.9836	1958.9810	1.36	0	3	32	1	SNNGTDVNAQIPQLLYR
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536	545.2885	1088.5624	1088.6012	-35.59	1	3	51	1	KALTGSMPIR + Oxidation (M)
620	647.3015	1292.5884	1292.6183	-23.12	0	3	30	1	WTVVTFMSSNR + Oxidation (M)
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773	785.8511	1569.6876	1569.7068	-12.20	1	2	20	1	KFPEWMSMQSQR + Oxidation (M)
777	795.4383	1588.8620	1588.9044	-26.68	1	2	31	1	LLKAGVISALACMVK + Oxidation (M)
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545	556.8411	1111.6676	1111.6462	19.3	1	1	21	1	KPQLDTRVR
942	1400.1620	2798.3094	2798.3075	0.68	1	1	27	1	LGTNMYASRPFVETHMSATSNAASR + 2 Oxidation (M)
903	762.0558	2283.1456	2283.0334	49.1	1	1	36	1	KCSCVICSPTYVPELEAR
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887	1048.9823	2095.9500	2095.9469	1.52	0	1	33	1	SNPFHYPSNSVFFPFYF
715	510.2402	1527.6988	1527.6922	4.29	1	1	42	1	CNDPVMNEKLHR + Oxidation (M)
896	738.0253	2211.0541	2211.0477	2.86	0	0	45	1	GPELMAIEGLENGEGFTTAGPR + Oxidation (M)
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<input checked="" type="checkbox"/>	<a href="#">804</a>	820.6395	1639.2644
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<input checked="" type="checkbox"/>	<a href="#">860</a>	921.1354	1840.2562
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<input checked="" type="checkbox"/>	<a href="#">862</a>	924.6959	1847.3772
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<input checked="" type="checkbox"/>	<a href="#">949</a>	972.4224	2914.2454
<input checked="" type="checkbox"/>	<a href="#">950</a>	978.5491	2932.6255
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<input checked="" type="checkbox"/>	<a href="#">959</a>	1130.5486	3388.6240
<input checked="" type="checkbox"/>	<a href="#">961</a>	1493.0217	4476.0433

### Search Parameters

Type of search : MS/MS Ion Search  
Enzyme : Trypsin  
Fixed modifications : Carbamidomethyl (C)  
Variable modifications : Oxidation (M)  
Mass values : Monoisotopic  
Protein Mass : Unrestricted  
Peptide Mass Tolerance :  $\pm 50$  ppm  
Fragment Mass Tolerance :  $\pm 0.2$  Da  
Max Missed Cleavages : 1  
Instrument type : ESI-QUAD-TOF  
Number of queries : 961

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



# Mascot Search Results

User : Dominic  
 Email : dominic.kurian@bbsrc.ac.uk  
 Search title : IPI Mouse\_15-02-2010  
 MS data file : C:\Program Files\Matrix Science\Mascot Daemon\mgf\31 MSadmin\mascot\_daemon\_merge.mgf  
 Database : IPI\_mouse MOUSE\_v3\_79 (54943 sequences; 24917557 residues)  
 Timestamp : 15 Feb 2011 at 11:16:52 GMT  
 Enzyme : Trypsin  
 Fixed modifications : Carbamidomethyl (C)  
 Variable modifications : Oxidation (M)  
 Mass values : Monoisotopic  
 Protein Mass : Unrestricted  
 Peptide Mass Tolerance : ± 50 ppm  
 Fragment Mass Tolerance : ± 0.2 Da  
 Max Missed Cleavages : 1  
 Instrument type : ESI-QUAD-TOF  
 Number of queries : 1043  
 Protein hits :

- [IPI00420725](#) Tax\_Id=10090 Gene\_Symbol=Camk2a Uncharacterized protein
- [IPI00474502](#) Tax\_Id=10090 Gene\_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase type II subunit beta
- [IPI00473320](#) Tax\_Id=10090 Gene\_Symbol=Actb Putative uncharacterized protein
- [IPI00136929](#) Tax\_Id=10090 Gene\_Symbol=Actg1 Gamma actin-like protein
- [IPI00112584](#) Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 1 of Calcium/calmodulin-dependent protein kinase type II
- [IPI00124695](#) Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 1 of Calcium/calmodulin-dependent protein kinase type II
- [IPI00221528](#) Tax\_Id=10090 Gene\_Symbol=Actb12 Beta-actin-like protein 2
- [IPI00169463](#) Tax\_Id=10090 Gene\_Symbol=Tubb2c Tubulin beta-2C chain
- [IPI00109073](#) Tax\_Id=10090 Gene\_Symbol=Tubb4 Tubulin beta-4 chain
- [IPI00109061](#) Tax\_Id=10090 Gene\_Symbol=Tubb2b Tubulin beta-2B chain
- [IPI00136703](#) Tax\_Id=10090 Gene\_Symbol=Ckb Creatine kinase B-type
- [IPI00420569](#) Tax\_Id=10090 Gene\_Symbol=Atpla2 Sodium/potassium-transporting ATPase subunit alpha-2
- [IPI00122048](#) Tax\_Id=10090 Gene\_Symbol=Atpla3 Sodium/potassium-transporting ATPase subunit alpha-3
- [IPI00117352](#) Tax\_Id=10090 Gene\_Symbol=Tubb5 Tubulin beta-5 chain
- [IPI00115546](#) Tax\_Id=10090 Gene\_Symbol=Gnao1 Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) subunit
- [IPI00110753](#) Tax\_Id=10090 Gene\_Symbol=Tubal1 Tubulin alpha-1A chain
- [IPI00120793](#) Tax\_Id=10090 Gene\_Symbol=Prnp Major prion protein
- [IPI00112251](#) Tax\_Id=10090 Gene\_Symbol=Tubb3 Tubulin beta-3 chain
- [IPI00122928](#) Tax\_Id=10090 Gene\_Symbol=Tubb6 Tubulin beta-6 chain
- [IPI00135284](#) Tax\_Id=10090 Gene\_Symbol=Gml6374 Glyceraldehyde-3-phosphate dehydrogenase
- [IPI00135106](#) Tax\_Id=10090 Gene\_Symbol=Mobp Isoform 1 of Myelin-associated oligodendrocyte basic protein
- [IPI00114375](#) Tax\_Id=10090 Gene\_Symbol=Dpys12 Dihydropyrimidinase-related protein 2
- [IPI00132042](#) Tax\_Id=10090 Gene\_Symbol=Pdhb Pyruvate dehydrogenase E1 component subunit beta, mitochondrial
- [IPI00138892](#) Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin-60S ribosomal protein L40
- [IPI00121038](#) Tax\_Id=10090 Gene\_Symbol=Vcan Isoform V0 of Versican core protein
- [IPI00323571](#) Tax\_Id=10090 Gene\_Symbol=ApoE Apolipoprotein E
- [IPI00229525](#) Tax\_Id=10090 Gene\_Symbol=Gnal Guanine nucleotide-binding protein G(olf) subunit alpha
- [IPI00118569](#) Tax\_Id=10090 Gene\_Symbol=Gnal3 Guanine nucleotide-binding protein subunit alpha-13
- [IPI00129240](#) Tax\_Id=10090 Gene\_Symbol=Vtn Vitronectin
- [IPI00323357](#) Tax\_Id=10090 Gene\_Symbol=Hspa8 Heat shock cognate 71 kDa protein
- [IPI00131366](#) Tax\_Id=10090 Gene\_Symbol=Krt6b Keratin, type II cytoskeletal 6B
- [IPI00134344](#) Tax\_Id=10090 Gene\_Symbol=Spn3 Putative uncharacterized protein
- [IPI00123313](#) Tax\_Id=10090 Gene\_Symbol=Uba1 Ubiquitin-like modifier-activating enzyme 1
- [IPI00113112](#) Tax\_Id=10090 Gene\_Symbol=Rab3b Ras-related protein Rab-3B
- [IPI00116697](#) Tax\_Id=10090 Gene\_Symbol=Rab6 Isoform 1 of Ras-related protein Rab-6A
- [IPI00136271](#) Tax\_Id=10090 Gene\_Symbol=Rab33b Putative uncharacterized protein
- [IPI00170032](#) Tax\_Id=10090 Gene\_Symbol=Rab15 Ras-related protein Rab-15
- [IPI00656325](#) Tax\_Id=10090 Gene\_Symbol=Nsf Vesicle-fusing ATPase

## IPI\_mouse [Decoy](#) False discovery rate

Peptide matches above identity threshold	123	0	0.00 %
Peptide matches above homology or identity threshold	143	2	1.40 %

## Select Summary Report

Format As

 Select Summary (protein hits)

[Help](#)
Significance threshold  $p < 0.01$ 

Max. number of hits AUTO

Standard scoring  MudPIT scoring  Ions score or expect cut-off 0

Show sub-sets 0

Show pop-ups  Suppress pop-ups  Sort unassigned

Decreasing Score

Require bold red 

1. [IPI00420725](#) Mass: 55882 Score: 883 Queries matched: 42 emPAI: 1.23

Query	Observed	Mr (expt)	Mr (calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">245</a>	432.7284	863.4422	863.4501	-9.12	0	17	2.1	1	R.SGAPSVLPH.-
<a href="#">261</a>	446.2625	890.5104	890.5086	2.03	1	4	(43)	22	K.GAFSVVRR.C
<a href="#">283</a>	463.2463	924.4780	924.4777	0.37	1	25	0.2	1	R.DHQKLER.E <a href="#">282</a> <a href="#">284</a>
<a href="#">373</a>	525.2643	1048.5140	1048.5553	-39.33	0	53	0.00048	1	K.VLAGQEYAAK.I <a href="#">374</a>
<a href="#">384</a>	530.3027	1058.5908	1058.5906	0.21	1	(43)	0.0034	1	K.MLTINPSKR.I <a href="#">383</a> <a href="#">385</a>
<a href="#">398</a>	538.2980	1074.5814	1074.5855	-3.81	1	52	0.00054	1	K.MLTINPSKR.I <a href="#">399</a> <a href="#">400</a> <a href="#">401</a>
<a href="#">424</a>	545.3502	1088.6858	1088.6818	3.70	1	37	0.003	1	R.LLKHPNIVR.L
<a href="#">480</a>	574.3285	1146.6424	1146.6431	-0.54	0	64	2.5e-005	1	K.GAILTTMLATR.N
<a href="#">497</a>	582.3258	1162.6370	1162.6380	-0.81	0	(59)	8.6e-005	1	K.GAILTTMLATR.N <a href="#">498</a>
<a href="#">586</a>	631.3029	1260.5912	1260.5927	-1.19	0	58	0.0001	1	R.FYFENLWSR.N <a href="#">585</a> <a href="#">587</a>
<a href="#">628</a>	652.3355	1302.6564	1302.6932	-28.21	0	73	4.2e-006	1	R.ITQYLDAGGIPR.T <a href="#">629</a> <a href="#">630</a> <a href="#">632</a>
<a href="#">669</a>	670.8956	1339.7766	1339.7711	4.16	0	74	1.2e-006	1	R.DLKPENLLASK.L <a href="#">664</a> <a href="#">665</a> <a href="#">666</a> <a href="#">667</a> <a href="#">668</a>
<a href="#">836</a>	816.8978	1631.7810	1631.7719	5.62	0	68	1.1e-005	1	R.FTEEYQLFEEELGK.G <a href="#">832</a> <a href="#">835</a>
<a href="#">937</a>	1040.9652	2079.9158	2079.9426	-12.84	0	77	6.5e-007	1	K.AGAYDFPSPEWDTVTPKAK.D <a href="#">936</a>
<a href="#">983</a>	783.7271	2348.1595	2348.1689	-4.00	1	78	7.4e-007	1	R.FTEEYQLFEEELGKGFASVVR.R <a href="#">982</a> <a href="#">984</a>

[1005](#) [888.7645](#) [2663.2717](#) [2663.2755](#) [-1.44](#) [1](#) [101](#) [3.3e-009](#) [1](#) [K.AGAYDFPSPEDWTVTPEAKDLINK.M](#) [1004](#) [1006](#)

**Proteins matching the same set of peptides:**

[IPI00621806](#) **Mass:** 54651 **Score:** 883 **Queries matched:** 42

Tax\_Id=10090 Gene\_Symbol=Camk2a Isoform Alpha CaMKII of Calcium/calmodulin-dependent protein kinase type II subunit alpha

2. [IPI00474502](#) **Mass:** 61164 **Score:** 771 **Queries matched:** 36 **emPAI:** 1.57  
Tax\_Id=10090 Gene\_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase type II subunit beta

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">261</a>	446.2625	890.5104	890.5086	2.03	1	4	22	2	K.GAFSVVRR.C
<a href="#">283</a>	463.2463	924.4780	924.4777	0.37	1	25	0.2	1	R.DHQKLER.E <a href="#">282</a> <a href="#">284</a>
<a href="#">376</a>	526.2389	1050.4632	1050.4586	4.38	0	21	0.3	1	R.STVASMMHR.Q
<a href="#">477</a>	572.8038	1143.5930	1143.5964	-2.95	0	15	2.9	1	R.FYFENLLAK.N <a href="#">478</a>
<a href="#">480</a>	574.3285	1146.6424	1146.6431	-0.54	0	64	2.5e-005	1	K.GAILTTMLATR.N
<a href="#">497</a>	582.3258	1162.6370	1162.6380	-0.81	0	(59)	8.6e-005	1	K.GAILTTMLATR.N <a href="#">498</a>
<a href="#">573</a>	623.3220	1244.6294	1244.6361	-5.33	0	43	0.0047	1	K.ADGVKPKQTNSTK.N
<a href="#">669</a>	670.8956	1339.7766	1339.7711	4.16	0	74	1.2e-006	1	R.DLKPENLLASK.C <a href="#">664</a> <a href="#">665</a> <a href="#">666</a> <a href="#">667</a> <a href="#">668</a>
<a href="#">692</a>	458.5797	1372.7173	1372.7310	-10.02	1	24	0.27	1	K.KADGVKPKQTNSTK.N
<a href="#">712</a>	702.3754	1402.7362	1402.7317	3.24	0	60	6.5e-005	1	R.LTYQIDGGQRP.R <a href="#">711</a> <a href="#">713</a>
<a href="#">821</a>	810.8781	1619.7416	1619.7355	3.79	0	80	5.2e-007	1	R.FTDEYQLYEDIGK.G
<a href="#">827</a>	542.6376	1624.8910	1624.9082	-10.63	1	72	2.8e-006	1	K.NLINQMLTINPAKR.I <a href="#">826</a>
<a href="#">937</a>	1040.9652	2079.9158	2079.9426	-12.84	0	77	6.5e-007	1	K.AGAYDFPSPEDWTVTPEAK.N <a href="#">936</a>
<a href="#">945</a>	1057.0130	2112.0114	2112.0011	4.90	0	90	5e-008	1	K.TTEQLIEAVNNGDFEAYAK.I <a href="#">942</a> <a href="#">944</a>
<a href="#">981</a>	779.7127	2336.1163	2336.1325	-6.94	1	98	6.8e-009	1	R.FTDEYQLYEDIGKGFVSVR.R <a href="#">979</a> <a href="#">980</a>
<a href="#">988</a>	1177.0770	2352.1394	2352.1301	3.97	0	92	2.6e-008	1	R.QTTAPATMSTAASGTTMGLVEQAK.S <a href="#">986</a>
<a href="#">989</a>	785.4238	2353.2496	2353.2642	-6.20	0	61	2.7e-005	1	K.GSLPPAALPQTTVIHNPVDGK.E
<a href="#">991</a>	1185.0753	2368.1360	2368.1250	4.65	0	(66)	1.1e-005	1	R.QTTAPATMSTAASGTTMGLVEQAK.S

**Proteins matching the same set of peptides:**

[IPI00649778](#) **Mass:** 73827 **Score:** 771 **Queries matched:** 36

Tax\_Id=10090 Gene\_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase II, beta, isoform CRA\_b

[IPI00875723](#) **Mass:** 68686 **Score:** 771 **Queries matched:** 36

Tax\_Id=10090 Gene\_Symbol=Camk2b 68 kDa protein

3. [IPI00473320](#) **Mass:** 42115 **Score:** 665 **Queries matched:** 20 **emPAI:** 1.13  
Tax\_Id=10090 Gene\_Symbol=Actb Putative uncharacterized protein

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">94</a>	630.2972	629.2899	629.2769	20.7	0	21	0.16	1	R.GDDAPR.A
<a href="#">494</a>	581.3107	1160.6068	1160.6111	-3.65	0	23	0.45	1	K.EITALAPSTMK.I
<a href="#">530</a>	599.8568	1197.6990	1197.6982	0.69	0	51	0.00032	1	R.AVFPSIVGRPR.H <a href="#">531</a>
<a href="#">676</a>	677.8154	1353.6162	1353.6161	0.14	1	80	5.7e-007	1	K.DSYVGDEAQSRR.G
<a href="#">757</a>	774.9159	1547.8172	1547.8051	7.85	1	93	3.4e-008	1	R.MQKEITAPALSTMK.I <a href="#">755</a> <a href="#">756</a>
<a href="#">824</a>	812.4301	1622.8456	1622.8338	7.32	1	16	1.3	1	R.LDLAGRDLTDYLMK.I
<a href="#">885</a>	895.9537	1789.8928	1789.8846	4.59	0	103	3.1e-009	1	K.SYELPDGQVITIGNER.F <a href="#">886</a>
<a href="#">918</a>	652.0211	1953.0415	1953.0571	-8.00	0	73	2e-006	1	R.VAPEEHPVLLTEAPLNPK.A <a href="#">917</a> <a href="#">919</a>
<a href="#">966</a>	1108.0448	2214.0750	2214.0627	5.58	0	71	3.7e-006	1	K.DLYANTVLSGGTTPYGLADR.M
<a href="#">1038</a>	1061.8691	3182.5855	3182.6071	-6.78	0	109	3.5e-010	1	R.TTGIVMDSGDGVTHTVPIYEGYALPHAILR.L <a href="#">1035</a> <a href="#">1036</a> <a href="#">1037</a>
<a href="#">1039</a>	800.6558	3198.5941	3198.6020	-2.46	0	(84)	1.2e-007	1	R.TTGIVMDSGDGVTHTVPIYEGYALPHAILR.L

4. [IPI00136929](#) **Mass:** 44029 **Score:** 627 **Queries matched:** 17 **emPAI:** 0.92  
Tax\_Id=10090 Gene\_Symbol=Actg1 Gamma actin-like protein

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">494</a>	581.3107	1160.6068	1160.6111	-3.65	0	23	0.45	1	K.EITALAPSTMK.I
<a href="#">676</a>	677.8154	1353.6162	1353.6161	0.14	1	80	5.7e-007	1	K.DSYVGDEAQSRR.G
<a href="#">757</a>	774.9159	1547.8172	1547.8051	7.85	1	93	3.4e-008	1	R.MQKEITAPALSTMK.I <a href="#">755</a> <a href="#">756</a>
<a href="#">824</a>	812.4301	1622.8456	1622.8338	7.32	1	16	1.3	1	R.LDLAGRDLTDYLMK.I
<a href="#">885</a>	895.9537	1789.8928	1789.8846	4.59	0	103	3.1e-009	1	K.SYELPDGQVITIGNER.F <a href="#">886</a>
<a href="#">918</a>	652.0211	1953.0415	1953.0571	-8.00	0	73	2e-006	1	R.VAPEEHPVLLTEAPLNPK.R <a href="#">917</a> <a href="#">919</a>
<a href="#">966</a>	1108.0448	2214.0750	2214.0627	5.58	0	71	3.7e-006	1	K.DLYANTVLSGGTTPYGLADR.M
<a href="#">1038</a>	1061.8691	3182.5855	3182.6071	-6.78	0	109	3.5e-010	1	R.TTGIVMDSGDGVTHTVPIYEGYALPHAILR.L <a href="#">1035</a> <a href="#">1036</a> <a href="#">1037</a>
<a href="#">1039</a>	800.6558	3198.5941	3198.6020	-2.46	0	(84)	1.2e-007	1	R.TTGIVMDSGDGVTHTVPIYEGYALPHAILR.L

5. [IPI00112584](#) **Mass:** 56961 **Score:** 456 **Queries matched:** 24 **emPAI:** 0.66  
Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit delta

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">261</a>	446.2625	890.5104	890.5086	2.03	1	4	22	2	K.GAFSVVRR.C
<a href="#">283</a>	463.2463	924.4780	924.4777	0.37	1	25	0.2	1	R.DHQKLER.E <a href="#">282</a> <a href="#">284</a>
<a href="#">376</a>	526.2389	1050.4632	1050.4586	4.38	0	21	0.3	1	R.STVASMMHR.Q
<a href="#">383</a>	530.2958	1058.5770	1058.5906	-12.82	1	20	0.97	2	K.MLTINPAKR.I
<a href="#">424</a>	545.3502	1088.6858	1088.6818	3.70	1	37	0.003	1	R.LLKHNPVLR.L
<a href="#">460</a>	559.7792	1117.5438	1117.5444	-0.48	0	13	4.2	1	R.FYFENLLAK.S
<a href="#">480</a>	574.3285	1146.6424	1146.6431	-0.54	0	64	2.5e-005	1	K.GAILTTMLATR.N
<a href="#">497</a>	582.3258	1162.6370	1162.6380	-0.81	0	(59)	8.6e-005	1	K.GAILTTMLATR.N <a href="#">498</a>
<a href="#">669</a>	670.8956	1339.7766	1339.7711	4.16	0	74	1.2e-006	1	R.DLKPENLLASK.C <a href="#">664</a> <a href="#">665</a> <a href="#">666</a> <a href="#">667</a> <a href="#">668</a>
<a href="#">679</a>	680.3028	1358.5910	1358.5846	4.72	0	20	0.3	1	R.LTYQIDGGQRP.R
<a href="#">819</a>	809.8877	1617.7608	1617.7562	2.85	0	59	6.8e-005	1	R.FTDEYQLFELGK.G
<a href="#">937</a>	1040.9652	2079.9158	2079.9426	-12.84	0	77	6.5e-007	1	K.AGAYDFPSPEDWTVTPEAK.D <a href="#">936</a>
<a href="#">1005</a>	888.7645	2663.2717	2663.2755	-1.44	1	101	3.3e-009	1	K.AGAYDFPSPEDWTVTPEAKDLINK.M <a href="#">1004</a> <a href="#">1006</a>

**Proteins matching the same set of peptides:**

[IPI00406790](#) **Mass:** 60593 **Score:** 456 **Queries matched:** 24

Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 4 of Calcium/calmodulin-dependent protein kinase type II subunit delta

[IPI00475044](#) **Mass:** 55899 **Score:** 456 **Queries matched:** 24

Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 2 of Calcium/calmodulin-dependent protein kinase type II subunit delta

[IPI00828919](#) **Mass:** 58492 **Score:** 456 **Queries matched:** 24

Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 3 of Calcium/calmodulin-dependent protein kinase type II subunit delta

[IPI00857865](#) Mass: 54664 Score: 456 Queries matched: 24  
 Tax\_Id=10090 Gene\_Symbol=Camk2d Putative uncharacterized protein  
[IPI00858128](#) Mass: 58283 Score: 456 Queries matched: 24  
 Tax\_Id=10090 Gene\_Symbol=Camk2d calcium/calmodulin-dependent protein kinase type II subunit delta isoform 1  
[IPI00858144](#) Mass: 55828 Score: 456 Queries matched: 24  
 Tax\_Id=10090 Gene\_Symbol=Camk2d 55 kDa protein

6. [IPI00124695](#) Mass: 60254 Score: 420 Queries matched: 21 emPAI: 0.79  
 Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit gamma

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">261</a>	446.2625	890.5104	890.5086	2.03	1	4	22	2	K.GAFSVVRR.C
<a href="#">283</a>	463.2463	924.4780	924.4777	0.37	1	25	0.2	1	R.DHVKLER.E <a href="#">282</a> <a href="#">284</a>
<a href="#">376</a>	526.2389	1050.4632	1050.4586	4.38	0	21	0.3	1	R.STVASMHR.Q
<a href="#">424</a>	545.3502	1088.6858	1088.6818	3.70	1	37	0.003	1	R.LLKHPNIVR.L
<a href="#">669</a>	670.8956	1339.7766	1339.7711	4.16	0	74	1.2e-006	1	R.DLKPENLLASK.C <a href="#">664</a> <a href="#">665</a> <a href="#">666</a> <a href="#">667</a> <a href="#">668</a>
<a href="#">712</a>	702.3754	1402.7362	1402.7317	3.24	0	60	6.5e-005	1	R.LTQYIDGQGRPR.T <a href="#">711</a> <a href="#">713</a>
<a href="#">811</a>	802.8796	1603.7446	1603.7406	2.52	0	77	1e-006	1	R.FTDDYQLFEELGK.G
<a href="#">827</a>	542.6376	1624.8910	1624.9082	-10.63	1	72	2.8e-006	1	K.NLINQMLTINPAKR.I <a href="#">826</a>
<a href="#">937</a>	1040.9652	2079.9158	2079.9426	-12.84	0	77	6.5e-007	1	K.AGAYDFPSPEDWTVTPEAK.N <a href="#">936</a>
<a href="#">978</a>	774.3764	2320.1074	2320.1376	-13.02	1	53	0.00023	1	R.FTDDYQLFEELGKGFVSVR.R

## Proteins matching the same set of peptides:

[IPI00228044](#) Mass: 59013 Score: 420 Queries matched: 21  
 Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 2 of Calcium/calmodulin-dependent protein kinase type II subunit gamma  
[IPI00228045](#) Mass: 56610 Score: 420 Queries matched: 21  
 Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 3 of Calcium/calmodulin-dependent protein kinase type II subunit gamma

7. [IPI00221528](#) Mass: 42319 Score: 401 Queries matched: 11 emPAI: 0.46  
 Tax\_Id=10090 Gene\_Symbol=Actb12 Beta-actin-like protein 2

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">824</a>	812.4301	1622.8456	1622.8338	7.32	1	16	1.3	1	R.LDLAGRDLTDYLMK.I
<a href="#">885</a>	895.9537	1789.8928	1789.8846	4.59	0	103	3.1e-009	1	R.SYELPDGQVITIGNER.F <a href="#">886</a>
<a href="#">918</a>	652.0211	1953.0415	1953.0571	-8.00	0	47	0.00096	2	R.VAPDEHPILLTEAPLNPK.I <a href="#">917</a> <a href="#">919</a>
<a href="#">1038</a>	1061.8691	3182.5855	3182.6071	-6.78	0	109	3.5e-010	1	R.TTGIVMDSGDGVTHTVPIYEGYALPHAILR.L <a href="#">1035</a> <a href="#">1036</a> <a href="#">1037</a>
<a href="#">1039</a>	800.6558	3198.5941	3198.6020	-2.46	0	(84)	1.2e-007	1	R.TTGIVMDSGDGVTHTVPIYEGYALPHAILR.L

8. [IPI00169463](#) Mass: 50255 Score: 392 Queries matched: 19 emPAI: 1.01  
 Tax\_Id=10090 Gene\_Symbol=Tubb2c Tubulin beta-2C chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">404</a>	539.2755	1076.5364	1076.5250	10.6	1	21	0.68	1	K.IREEYPPDR.I <a href="#">405</a>
<a href="#">554</a>	615.3074	1228.6002	1228.5910	7.50	0	66	1.6e-005	1	R.ISEQFTAMFR.R
<a href="#">651</a>	660.3555	1318.6964	1318.6955	0.71	0	70	7e-006	1	R.IMNTFVSVVPSPK.V
<a href="#">806</a>	801.4128	1600.8110	1600.8131	-1.26	0	62	4.4e-005	1	R.AVLVDLEPGTMDSVR.S
<a href="#">817</a>	809.4195	1616.8244	1616.8080	10.2	0	(37)	0.014	1	R.AVLVDLEPGTMDSVR.S <a href="#">818</a>
<a href="#">823</a>	540.9528	1619.8366	1619.8283	5.13	0	53	0.00035	1	R.LHFFMPGFAPLTSR.G <a href="#">822</a>
<a href="#">838</a>	818.9071	1635.7996	1635.8232	-14.39	0	(15)	2.2	1	R.LHFFMPGFAPLTSR.G
<a href="#">849</a>	846.4417	1690.8688	1690.8600	5.23	0	71	5e-006	1	R.ALTVPBLTQMFDAK.N
<a href="#">850</a>	848.9232	1695.8318	1695.8257	3.65	0	53	0.0003	1	K.NSSYFVEWIPNNVK.T <a href="#">851</a>
<a href="#">905</a>	929.4750	1856.9354	1856.9342	0.66	0	35	0.017	2	K.MSATFIGNSTAIQELFK.R
<a href="#">924</a>	979.9998	1957.9850	1957.9745	5.37	0	44	0.0021	1	K.GHYTEGAELVSDVLDVVR.K
<a href="#">931</a>	672.0128	2013.0166	2013.0353	-9.32	1	98	9.4e-009	1	K.MSATFIGNSTAIQELFKR.I
<a href="#">1012</a>	933.4506	2797.3300	2797.3361	-2.20	0	88	5.4e-008	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G <a href="#">1011</a> <a href="#">1013</a>

9. [IPI00109073](#) Mass: 50010 Score: 375 Queries matched: 17 emPAI: 0.89  
 Tax\_Id=10090 Gene\_Symbol=Tubb4 Tubulin beta-4 chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">389</a>	531.2863	1060.5580	1060.5301	26.3	1	10	8.7	5	K.IREEYPPDR.I
<a href="#">554</a>	615.3074	1228.6002	1228.5910	7.50	0	66	1.6e-005	1	R.ISEQFTAMFR.R
<a href="#">651</a>	660.3555	1318.6964	1318.6955	0.71	0	70	7e-006	1	R.IMNTFVSVVPSPK.V
<a href="#">806</a>	801.4128	1600.8110	1600.8131	-1.26	0	62	4.4e-005	1	R.AVLVDLEPGTMDSVR.S
<a href="#">817</a>	809.4195	1616.8244	1616.8080	10.2	0	(37)	0.014	1	R.AVLVDLEPGTMDSVR.S <a href="#">818</a>
<a href="#">823</a>	540.9528	1619.8366	1619.8283	5.13	0	53	0.00035	1	R.LHFFMPGFAPLTSR.G <a href="#">822</a>
<a href="#">838</a>	818.9071	1635.7996	1635.8232	-14.39	0	(15)	2.2	1	R.LHFFMPGFAPLTSR.G
<a href="#">849</a>	846.4417	1690.8688	1690.8600	5.23	0	71	5e-006	1	R.ALTVPBLTQMFDAK.N
<a href="#">850</a>	848.9232	1695.8318	1695.8257	3.65	0	53	0.0003	1	K.NSSYFVEWIPNNVK.T <a href="#">851</a>
<a href="#">905</a>	929.4750	1856.9354	1856.9342	0.66	0	37	0.012	1	K.MAATFIGNSTAIQELFKR.R
<a href="#">931</a>	672.0128	2013.0166	2013.0353	-9.32	1	98	9.8e-009	2	K.MAATFIGNSTAIQELFKR.I
<a href="#">1012</a>	933.4506	2797.3300	2797.3361	-2.20	0	88	5.4e-008	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G <a href="#">1011</a> <a href="#">1013</a>

10. [IPI00109061](#) Mass: 50377 Score: 358 Queries matched: 20 emPAI: 0.88  
 Tax\_Id=10090 Gene\_Symbol=Tubb2b Tubulin beta-2B chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">404</a>	539.2755	1076.5364	1076.5250	10.6	1	21	0.68	1	K.IREEYPPDR.I <a href="#">405</a>
<a href="#">554</a>	615.3074	1228.6002	1228.5910	7.50	0	66	1.6e-005	1	R.ISEQFTAMFR.R
<a href="#">675</a>	676.3422	1350.6698	1350.6676	1.69	0	73	3.5e-006	1	R.IMNTFVSVVPSPK.V
<a href="#">814</a>	808.4207	1614.8268	1614.8287	-1.15	0	47	0.0015	1	R.AILVDLEPGTMDSVR.S
<a href="#">823</a>	540.9528	1619.8366	1619.8283	5.13	0	53	0.00035	1	R.LHFFMPGFAPLTSR.G <a href="#">822</a>
<a href="#">829</a>	816.4133	1630.8120	1630.8236	-7.10	0	(41)	0.0058	1	R.AILVDLEPGTMDSVR.S <a href="#">830</a> <a href="#">831</a>
<a href="#">838</a>	818.9071	1635.7996	1635.8232	-14.39	0	(15)	2.2	1	R.LHFFMPGFAPLTSR.G
<a href="#">850</a>	848.9232	1695.8318	1695.8257	3.65	0	53	0.0003	1	K.NSSYFVEWIPNNVK.T <a href="#">851</a>
<a href="#">905</a>	929.4750	1856.9354	1856.9342	0.66	0	35	0.017	2	K.MSATFIGNSTAIQELFKR.R
<a href="#">924</a>	979.9998	1957.9850	1957.9745	5.37	0	44	0.0021	1	K.GHYTEGAELVSDVLDVVR.K
<a href="#">931</a>	672.0128	2013.0166	2013.0353	-9.32	1	98	9.4e-009	1	K.MSATFIGNSTAIQELFKR.I
<a href="#">1012</a>	933.4506	2797.3300	2797.3361	-2.20	0	88	5.4e-008	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G <a href="#">1011</a> <a href="#">1013</a>
<a href="#">1034</a>	776.3489	3101.3665	3101.4003	-10.89	0	7	4.2	1	K.FWEIVSDEHGIDPTGSHGSDLLQLER.I

## Proteins matching the same set of peptides:

[IPI00338039](#) Mass: 50274 Score: 358 Queries matched: 20  
Tax\_Id=10090 Gene\_Symbol=Tubb2a Tubulin beta-2A chain

11. [IPI00136703](#) Mass: 42971 Score: 341 Queries matched: 8 emPAI: 0.45  
Tax\_Id=10090 Gene\_Symbol=Ckb Creatine kinase B-type

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">632</a>	652.3672	1302.7198	1302.7183	1.17	0	84	2.2e-007	1	K.VLTPELYAELR.A <a href="#">631</a>
<a href="#">809</a>	801.9227	1601.8308	1601.8260	3.00	0	96	1.7e-008	1	K.LAVEALSSLDGDLGR.Y
<a href="#">841</a>	828.9185	1655.8224	1655.8188	2.17	0	72	4.3e-006	1	R.LEQQQAIDDLMPAQK.-
<a href="#">903</a>	924.9891	1847.9636	1847.9703	-3.60	0	31	0.044	1	R.LGFSEVELVQMVVDGK.L
<a href="#">1040</a>	897.6892	3586.7277	3586.7800	-14.57	0	87	4.9e-008	1	K.SMTEAEQQQLIDHFLFKPVSPLLLASGMAR.D <a href="#">1041</a> <a href="#">1042</a>

12. [IPI00420569](#) Mass: 113457 Score: 312 Queries matched: 7 emPAI: 0.12  
Tax\_Id=10090 Gene\_Symbol=Atpla2 Sodium/potassium-transporting ATPase subunit alpha-2

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">558</a>	618.8573	1235.7000	1235.6986	1.17	0	52	0.00022	1	R.LNIPVSVNPR.E <a href="#">559</a>
<a href="#">590</a>	634.8586	1267.7026	1267.7071	-3.48	0	22	0.3	1	K.NMVPQQALVIR.E
<a href="#">898</a>	906.4799	1810.9452	1810.9425	1.51	0	103	2.8e-009	1	R.QGAIIVAVTGDGVNDSPALK.K <a href="#">897</a>
<a href="#">902</a>	915.4670	1828.9194	1828.9167	1.53	0	124	2.5e-011	1	K.GVGIISGNETVEDIAAR.L
<a href="#">1020</a>	952.1171	2853.3295	2853.3313	-0.64	1	53	0.00017	1	K.EIPLDEKEMQDAFQNAVMEGLGLGER.V

## Proteins matching the same set of peptides:

[IPI00762871](#) Mass: 104717 Score: 312 Queries matched: 7  
Tax\_Id=10090 Gene\_Symbol=Atpla2 Uncharacterized protein

13. [IPI00122048](#) Mass: 113045 Score: 309 Queries matched: 7 emPAI: 0.12  
Tax\_Id=10090 Gene\_Symbol=Atpla3 Sodium/potassium-transporting ATPase subunit alpha-3

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">558</a>	618.8573	1235.7000	1235.6986	1.17	0	52	0.00022	1	R.LNIPVSVNPR.D <a href="#">559</a>
<a href="#">590</a>	634.8586	1267.7026	1267.7071	-3.48	0	22	0.3	1	K.NMVPQQALVIR.E
<a href="#">898</a>	906.4799	1810.9452	1810.9425	1.51	0	103	2.8e-009	1	R.QGAIIVAVTGDGVNDSPALK.K <a href="#">897</a>
<a href="#">902</a>	915.4670	1828.9194	1828.9167	1.53	0	124	2.5e-011	1	K.GVGIISGNETVEDIAAR.L
<a href="#">1022</a>	956.1228	2865.3466	2865.3490	-0.86	1	48	0.00055	1	K.EQPLDEEMKEAFQNAVLELGLGLGER.V

## Proteins matching the same set of peptides:

[IPI00752412](#) Mass: 117548 Score: 309 Queries matched: 7  
Tax\_Id=10090 Gene\_Symbol=Atpla3 ATPase, Na+/K+ transporting, alpha 3 polypeptide, isoform CRA\_c

14. [IPI00117352](#) Mass: 50095 Score: 290 Queries matched: 17 emPAI: 0.78  
Tax\_Id=10090 Gene\_Symbol=Tubb5 Tubulin beta-5 chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">404</a>	539.2755	1076.5364	1076.5250	10.6	1	21	0.68	1	K.IREEYPDR.I <a href="#">405</a>
<a href="#">554</a>	615.3074	1228.6002	1228.5910	7.50	0	66	1.6e-005	1	R.ISEQFTAMFR.R
<a href="#">651</a>	660.3555	1318.6964	1318.6955	0.71	0	70	7e-006	1	R.IMNTFSVVVSPK.V
<a href="#">814</a>	808.4207	1614.8268	1614.8287	-1.15	0	47	0.0015	1	R.AILVDLEPGTMDSVR.S
<a href="#">823</a>	540.9528	1619.8366	1619.8283	5.13	0	53	0.00035	1	R.LHFFMPGFAPLTSR.G <a href="#">822</a>
<a href="#">829</a>	816.4133	1630.8120	1630.8236	-7.10	0	(41)	0.0058	1	R.AILVDLEPGTMDSVR.S <a href="#">830</a> <a href="#">831</a>
<a href="#">838</a>	818.9071	1635.7996	1635.8232	-14.39	0	(15)	2.2	1	R.LHFFMPGFAPLTSR.G
<a href="#">850</a>	848.9232	1695.8318	1695.8257	3.65	0	53	0.0003	1	K.NSSYFVEWIPNNVK.T <a href="#">851</a>
<a href="#">924</a>	979.9998	1957.9850	1957.9745	5.37	0	44	0.0021	1	K.GHYTEGAEVLDSVLDVVR.K
<a href="#">1012</a>	933.4506	2797.3300	2797.3361	-2.20	0	88	5.4e-008	1	R.SGPFQIFRPDVFVFGQSAGNNWAK.G <a href="#">1011</a> <a href="#">1013</a>

15. [IPI00115546](#) Mass: 40524 Score: 278 Queries matched: 6 emPAI: 0.37  
Tax\_Id=10090 Gene\_Symbol=Gnaol Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) subunit alpha

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">380</a>	529.3142	1056.6138	1056.6179	-3.82	0	77	1.3e-006	1	K.LLLLGAGESGK.S <a href="#">381</a>
<a href="#">799</a>	792.3738	1582.7330	1582.7297	2.11	1	53	0.00024	1	R.AMDTLGVEYDGKER.K
<a href="#">845</a>	838.4210	1674.8274	1674.8213	3.67	0	101	5.3e-009	1	R.IGADYQPTVVDILR.T <a href="#">844</a>
<a href="#">922</a>	979.4433	1956.8720	1956.8631	4.58	0	69	4.7e-006	1	R.MEDTEPFSAELLSAMMR.L

## Proteins matching the same set of peptides:

[IPI00230192](#) Mass: 40629 Score: 278 Queries matched: 6  
Tax\_Id=10090 Gene\_Symbol=Gnaol Isoform Alpha-1 of Guanine nucleotide-binding protein G(o) subunit alpha

16. [IPI00110753](#) Mass: 50788 Score: 246 Queries matched: 7 emPAI: 0.29  
Tax\_Id=10090 Gene\_Symbol=Tubala Tubulin alpha-1A chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">351</a>	508.2901	1014.5656	1014.5709	-5.21	0	8	15	5	K.DVNAAIATIK.T
<a href="#">739</a>	729.4378	1456.8610	1456.8613	-0.18	0	20	0.2	1	R.LIGQIVSSITASLR.F
<a href="#">855</a>	851.4660	1700.9174	1700.8985	11.1	0	91	3.7e-008	1	R.AVFDLEPTVIDEVR.T <a href="#">854</a>
<a href="#">868</a>	586.3238	1755.9496	1755.9559	-3.62	0	49	0.00055	1	R.IHFFLATYAPVISAEEK.A
<a href="#">900</a>	913.0059	1823.9972	1823.9782	10.5	0	32	0.021	1	K.VGINYQPTVVDVGGDLAK.V
<a href="#">994</a>	1205.1074	2408.2002	2408.2012	-0.41	0	112	2.7e-010	1	R.FDGALNVDLTFEQTNLVYPR.I

17. [IPI00120793](#) Mass: 28131 Score: 236 Queries matched: 13 emPAI: 0.75  
Tax\_Id=10090 Gene\_Symbol=Prnp Major prion protein

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">354</a>	508.7722	1015.5298	1015.5298	0.00	0	32	0.074	1	K.QHTVTTTK.G
<a href="#">421</a>	544.7347	1087.4548	1087.4570	-2.01	0	41	0.0017	1	K.ESQAYDGR.R
<a href="#">474</a>	570.2632	1138.5118	1138.5142	-2.10	0	36	0.012	1	K.GENFTETDVK.M <a href="#">475</a>
<a href="#">566</a>	622.7841	1243.5536	1243.5581	-3.61	1	37	0.0081	1	K.ESQAYDGRR.S <a href="#">567</a> <a href="#">568</a> <a href="#">569</a> <a href="#">570</a> <a href="#">571</a>
<a href="#">951</a>	713.0164	2136.0274	2136.0335	-2.88	1	110	4.9e-010	1	K.QHTVTTTKGENFTETDVK.M <a href="#">950</a> <a href="#">952</a>

18. [IPI00112251](#) Mass: 50842 Score: 228 Queries matched: 11 emPAI: 0.55



Tax\_Id=10090 Gene\_Symbol=Tubb3 Tubulin beta-3 chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">554</a>	615.3074	1228.6002	1228.5910	7.50	0	66	1.6e-005	1	R.ISEQTAMFR.R
<a href="#">651</a>	660.3555	1318.6964	1318.6955	0.71	0	70	7e-006	1	R.IMNTPSVVPSPK.V
<a href="#">814</a>	808.4207	1614.8268	1614.8287	-1.15	0	47	0.0015	1	R.AILVDLEPGTMDSVR.S
<a href="#">822</a>	810.9188	1619.8230	1619.8283	-3.22	0	13	3.2	2	R.LHFFMPGFAPLTAR.G
<a href="#">829</a>	816.4133	1630.8120	1630.8236	-7.10	0	(41)	0.0058	1	R.AILVDLEPGTMDSVR.S <a href="#">830</a> <a href="#">831</a>
<a href="#">849</a>	846.4417	1690.8688	1690.8600	5.23	0	71	5e-006	1	R.ALTVPELTQQMFDK.N
<a href="#">850</a>	848.9232	1695.8318	1695.8257	3.65	0	53	0.0003	1	K.NSSYFVWIPNNVK.V <a href="#">851</a>
<a href="#">924</a>	979.9998	1957.9850	1957.9745	5.37	0	44	0.0021	1	K.GHYTEGAEVLVSLDVVR.K

19. [IPI00122928](#) Mass: 50514 Score: 208 Queries matched: 10 emPAI: 0.37

Tax\_Id=10090 Gene\_Symbol=Tubb6 Tubulin beta-6 chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">404</a>	539.2755	1076.5364	1076.5250	10.6	1	21	0.68	1	K.IREYDPDR.I <a href="#">405</a>
<a href="#">675</a>	676.3422	1350.6698	1350.6676	1.69	0	73	3.5e-006	1	R.IMNTPSVVPSPK.V
<a href="#">822</a>	810.9188	1619.8230	1619.8283	-3.22	0	13	3.2	2	R.LHFFMPGFAPLTAR.G
<a href="#">849</a>	846.4417	1690.8688	1690.8600	5.23	0	71	5e-006	1	R.ALTVPELTQQMFDK.N
<a href="#">850</a>	848.9232	1695.8318	1695.8257	3.65	0	53	0.0003	1	K.NSSYFVWIPNNVK.V <a href="#">851</a>
<a href="#">905</a>	929.4750	1856.9354	1856.9342	0.66	0	31	0.046	3	K.MASTFIGNSTAIQELFK.R
<a href="#">924</a>	979.9998	1957.9850	1957.9745	5.37	0	44	0.0021	1	K.GHYTEGAEVLVSLDVVR.K
<a href="#">931</a>	672.0128	2013.0166	2013.0353	-9.32	1	82	3.9e-007	3	K.MASTFIGNSTAIQELFKR.I

20. [IPI00135284](#) Mass: 36092 Score: 186 Queries matched: 4 emPAI: 0.30

Tax\_Id=10090 Gene\_Symbol=Gm16374 Glyceraldehyde-3-phosphate dehydrogenase

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">688</a>	685.3770	1368.7394	1368.7361	2.45	0	61	4.6e-005	1	R.GAAQNIIPASTGAAK.A
<a href="#">691</a>	686.8327	1371.6508	1371.6414	6.89	1	52	0.00038	1	R.VVDLMAYMASKE.-
<a href="#">875</a>	890.4037	1778.7928	1778.7900	1.61	0	85	1.5e-007	1	K.LISWYDNEYGYSNR.V <a href="#">876</a>

Proteins matching the same set of peptides:

<a href="#">IPI00271869</a>	Mass: 36293	Score: 186	Queries matched: 4
Tax_Id=10090 Gene_Symbol=- 36 kDa protein			
<a href="#">IPI00273646</a>	Mass: 36072	Score: 186	Queries matched: 4
Tax_Id=10090 Gene_Symbol=Gapdh:LOC100042025 Glyceraldehyde-3-phosphate dehydrogenase			
<a href="#">IPI00622795</a>	Mass: 36074	Score: 186	Queries matched: 4
Tax_Id=10090 Gene_Symbol=- 36 kDa protein			
<a href="#">IPI00752289</a>	Mass: 36308	Score: 186	Queries matched: 4
Tax_Id=10090 Gene_Symbol=Gm10290 Glyceraldehyde-3-phosphate dehydrogenase			
<a href="#">IPI00848801</a>	Mass: 36100	Score: 186	Queries matched: 4
Tax_Id=10090 Gene_Symbol=- 36 kDa protein			
<a href="#">IPI00849045</a>	Mass: 36072	Score: 186	Queries matched: 4
Tax_Id=10090 Gene_Symbol=- 36 kDa protein			
<a href="#">IPI00850337</a>	Mass: 44633	Score: 186	Queries matched: 4
Tax_Id=10090 Gene_Symbol=LOC100048117 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1			
<a href="#">IPI00850377</a>	Mass: 35975	Score: 186	Queries matched: 4
Tax_Id=10090 Gene_Symbol=- 36 kDa protein			
<a href="#">IPI00850779</a>	Mass: 36076	Score: 186	Queries matched: 4
Tax_Id=10090 Gene_Symbol=- 36 kDa protein			
<a href="#">IPI00874682</a>	Mass: 36038	Score: 186	Queries matched: 4
Tax_Id=10090 Gene_Symbol=- 36 kDa protein			
<a href="#">IPI00874964</a>	Mass: 36512	Score: 186	Queries matched: 4
Tax_Id=10090 Gene_Symbol=- 36 kDa protein			

21. [IPI00135106](#) Mass: 19584 Score: 113 Queries matched: 12 emPAI: 0.89

Tax\_Id=10090 Gene\_Symbol=Mobp Isoform 1 of Myelin-associated oligodendrocyte basic protein

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">271</a>	449.7446	897.4746	897.4781	-3.80	1	10	7	1	R.GGSPTRAPR.F <a href="#">270</a>
<a href="#">332</a>	498.7873	995.5600	995.5586	1.46	0	59	5.6e-005	1	K.SPLMPAKPR.S <a href="#">333</a>
<a href="#">343</a>	503.3052	1004.5958	1004.5879	7.89	0	22	0.2	1	R.SPFRPAKPR.S <a href="#">342</a>
<a href="#">349</a>	506.7819	1011.5492	1011.5535	-4.22	0	(49)	0.00066	1	K.SPLMPAKPR.S
<a href="#">453</a>	557.8041	1113.5936	1113.5891	4.11	1	36	0.019	1	R.SSPLRGPPTS.R.G <a href="#">452</a> <a href="#">454</a>
<a href="#">491</a>	580.8288	1159.6430	1159.6462	-2.71	0	53	0.00038	1	K.HQPAASPVVVR.A <a href="#">492</a>

22. [IPI00114375](#) Mass: 62638 Score: 110 Queries matched: 1 emPAI: 0.05

Tax\_Id=10090 Gene\_Symbol=Dpysl2 Dihydropyrimidinase-related protein 2

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">911</a>	956.0205	1910.0264	1910.0149	6.03	0	110	4.8e-010	1	R.FQLTDSQIYEVLSVIR.D

23. [IPI00132042](#) Mass: 39254 Score: 105 Queries matched: 1 emPAI: 0.08

Tax\_Id=10090 Gene\_Symbol=Pdhb Pyruvate dehydrogenase E1 component subunit beta, mitochondrial

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">867</a>	874.4476	1746.8806	1746.8763	2.48	0	105	1.9e-009	1	R.IMEGPAFNFLDAPAVR.V

24. [IPI00138892](#) Mass: 15004 Score: 101 Queries matched: 2 emPAI: 0.23

Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin-60S ribosomal protein L40

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">883</a>	894.4674	1786.9202	1786.9200	0.13	0	101	5.2e-009	1	K.TITLEVEPSDTIENVK.A <a href="#">884</a>

Proteins matching the same set of peptides:

<a href="#">IPI00470152</a>	Mass: 18282	Score: 101	Queries matched: 2
Tax_Id=10090 Gene_Symbol=Rps27a Ubiquitin-40S ribosomal protein S27a			
<a href="#">IPI00895319</a>	Mass: 22277	Score: 101	Queries matched: 2
Tax_Id=10090 Gene_Symbol=2810422J05Rik 22 kDa protein			

[IPI00895479](#) Mass: 27181 Score: 101 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=2810422J05Rik 27 kDa protein  
[IPI00918763](#) Mass: 11021 Score: 101 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin subunit 1  
[IPI00750889](#) Mass: 22822 Score: 101 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Ubc Ubc protein  
[IPI00923013](#) Mass: 26603 Score: 101 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Ubb Ubiquitin B  
[IPI00923037](#) Mass: 22578 Score: 101 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Ubc Putative uncharacterized protein  
[IPI00139518](#) Mass: 34348 Score: 101 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Ubb Polyubiquitin-B  
[IPI00755916](#) Mass: 82614 Score: 101 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Ubc ubiquitin  
[IPI00969323](#) Mass: 82603 Score: 101 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Ubc Polyubiquitin-C

25. [IPI00121038](#) Mass: 368613 Score: 100 Queries matched: 3 emPAI: 0.02  
 Tax\_Id=10090 Gene\_Symbol=Vcan Isoform V0 of Versican core protein  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[641](#) 657.8627 1313.7108 1313.7092 1.28 0 15 2.3 1 R.LATVGELQAAR.N  
[716](#) 709.3745 1416.7344 1416.7283 4.37 1 45 0.0023 1 K.METSPPVKGSLSGK.V  
[926](#) 656.6585 1966.9537 1966.9670 -6.79 0 87 1.2e-007 1 R.VSVTPHPDDVGDASLTMVK.L

Proteins matching the same set of peptides:

[IPI00230441](#) Mass: 264594 Score: 100 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Vcan Isoform V1 of Versican core protein  
[IPI00469172](#) Mass: 76209 Score: 100 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Vcan versican core protein isoform 4  
[IPI00469565](#) Mass: 180325 Score: 100 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Vcan versican core protein isoform 3  
[IPI00473932](#) Mass: 41850 Score: 100 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Vcan versican core protein isoform 5  
[IPI00656277](#) Mass: 41758 Score: 100 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Vcan Versican  
[IPI00875672](#) Mass: 368720 Score: 100 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Vcan versican core protein isoform 1

26. [IPI00323571](#) Mass: 35901 Score: 92 Queries matched: 7 emPAI: 0.30  
 Tax\_Id=10090 Gene\_Symbol=Apoe Apolipoprotein E  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[315](#) 484.7793 967.5440 967.5451 -1.06 0 23 0.19 1 R.LGPLVEQGR.Q  
[506](#) 585.8336 1169.6526 1169.6516 0.86 1 68 9.6e-006 1 R.LGKEVQAAQAR.L 507  
[550](#) 614.8275 1227.6404 1227.6320 6.90 1 40 0.0081 1 R.GRLEEVGNQAR.D  
[749](#) 755.9121 1509.8096 1509.8012 5.62 1 10 4.9 1 R.TANLGAGAAQPLRDR.A  
[805](#) 800.4014 1598.7882 1598.7787 5.94 0 47 0.0014 1 K.ELEEQLGPVAEETR.A  
[927](#) 997.5323 1993.0500 1993.0480 1.03 0 18 0.84 1 K.IQASVATNPITPVAQENQ.-

27. [IPI00229525](#) Score: 88 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Gnal Guanine nucleotide-binding protein G(olf) subunit alpha  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[380](#) 529.3142 1056.6138 1056.6179 -3.82 0 77 1.3e-006 1 R.LLLLGAAGESGK.S 381  
[527](#) 595.8279 1189.6412 1189.6165 20.8 1 0 84 9 R.MHLKQYELL.-

Proteins matching the same set of peptides:

[IPI00272681](#) Score: 88 Queries matched: 3

28. [IPI00118569](#) Mass: 44369 Score: 88 Queries matched: 2 emPAI: 0.07  
 Tax\_Id=10090 Gene\_Symbol=Gnal3 Guanine nucleotide-binding protein subunit alpha-13  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[380](#) 529.3142 1056.6138 1056.6179 -3.82 0 77 1.3e-006 1 K.LLLLGAAGESGK.S 381

Proteins matching the same set of peptides:

[IPI00230191](#) Mass: 44238 Score: 88 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Gnal2 Guanine nucleotide-binding protein subunit alpha-12  
[IPI00649388](#) Mass: 20095 Score: 88 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Gnal3 Putative uncharacterized protein

29. [IPI00129240](#) Mass: 55613 Score: 54 Queries matched: 1 emPAI: 0.06  
 Tax\_Id=10090 Gene\_Symbol=Vtn Vitronectin  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[929](#) 1001.0344 2000.0542 2000.0367 8.76 0 54 0.00022 1 K.LIQDVWGIEGPIIDAAFTR.I

30. [IPI00323357](#) Mass: 71055 Score: 52 Queries matched: 2 emPAI: 0.05  
 Tax\_Id=10090 Gene\_Symbol=Hspa8 Heat shock cognate 71 kDa protein  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[551](#) 614.8422 1227.6698 1227.6207 40.0 0 1 52 4 K.VEIIANDQGNR.T  
[816](#) 808.9132 1615.8118 1615.7804 19.5 0 52 0.00038 1 K.SFYPEEVSSMVLTK.M

Proteins matching the same set of peptides:

[IPI00886297](#) Mass: 68964 Score: 52 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Hspa8 Hspa8 protein

31. [IPI00131366](#) Mass: 60627 Score: 50 Queries matched: 1 emPAI: 0.05  
 Tax\_Id=10090 Gene\_Symbol=Krt6b Keratin, type II cytoskeletal 6B

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect	Rank	Peptide	
<a href="#">627</a>	651.8628	1301.7110	1301.7078	2.48	0	50	0.00059	1	R.SLDLDSIIAEVK.A

## Proteins matching the same set of peptides:

<a href="#">IPI00131368</a>	Mass: 59641	Score: 50	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Krt6a	Keratin, type II cytoskeletal 6A	
<a href="#">IPI00139301</a>	Mass: 61957	Score: 50	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Krt5	Keratin, type II cytoskeletal 5	
<a href="#">IPI00221797</a>	Mass: 59932	Score: 50	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Krt75	Keratin, type II cytoskeletal 75	
<a href="#">IPI00330480</a>	Mass: 35315	Score: 50	Queries matched: 1
Tax_Id=10090	Gene_Symbol=-	35 kDa protein	
<a href="#">IPI00470126</a>	Mass: 60553	Score: 50	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Krt5	Uncharacterized protein	
<a href="#">IPI00762364</a>	Mass: 50641	Score: 50	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Krt6a	Uncharacterized protein	
<a href="#">IPI00785403</a>	Mass: 59832	Score: 50	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Krt6b	keratin, type II cytoskeletal 6B	

32.	<a href="#">IPI00134344</a>	Mass: 272022	Score: 48	Queries matched: 1	emPAI: 0.01					
	Tax_Id=10090	Gene_Symbol=Spnb3	Putative uncharacterized protein							
	<b>Query</b>	<b>Observed</b>	<b>Mr(expt)</b>	<b>Mr(calc)</b>	<b>ppm</b>	<b>Miss Score</b>	<b>Expect</b>	<b>Rank</b>	<b>Peptide</b>	
	<a href="#">930</a>	1001.5367	2001.0588	2001.0531	2.88	0	48	0.00063	1	R.LVSDQNFQLELAEEAVR.K

33.	<a href="#">IPI00123313</a>	Mass: 118931	Score: 47	Queries matched: 1	emPAI: 0.03					
	Tax_Id=10090	Gene_Symbol=Ubal	Ubiquitin-like modifier-activating enzyme 1							
	<b>Query</b>	<b>Observed</b>	<b>Mr(expt)</b>	<b>Mr(calc)</b>	<b>ppm</b>	<b>Miss Score</b>	<b>Expect</b>	<b>Rank</b>	<b>Peptide</b>	
	<a href="#">825</a>	812.4624	1622.9102	1622.8992	6.84	0	47	0.00062	1	R.LAGTQPLEVLEAVQR.S

34.	<a href="#">IPI00113112</a>	Score: 38	Queries matched: 1							
	Tax_Id=10090	Gene_Symbol=Rab3b	Ras-related protein Rab-3B							
	<b>Query</b>	<b>Observed</b>	<b>Mr(expt)</b>	<b>Mr(calc)</b>	<b>ppm</b>	<b>Miss Score</b>	<b>Expect</b>	<b>Rank</b>	<b>Peptide</b>	
	<a href="#">642</a>	658.8356	1315.6566	1315.6521	3.49	0	38	0.011	1	K.LQIWDTAGQER.Y

## Proteins matching the same set of peptides:

<a href="#">IPI00113127</a>	Score: 38	Queries matched: 1
<a href="#">IPI00114560</a>	Score: 38	Queries matched: 1
<a href="#">IPI00116688</a>	Score: 38	Queries matched: 1
<a href="#">IPI00122965</a>	Score: 38	Queries matched: 1
<a href="#">IPI00123180</a>	Score: 38	Queries matched: 1
<a href="#">IPI00126042</a>	Score: 38	Queries matched: 1
<a href="#">IPI00130118</a>	Score: 38	Queries matched: 1
<a href="#">IPI00130489</a>	Score: 38	Queries matched: 1
<a href="#">IPI00133706</a>	Score: 38	Queries matched: 1
<a href="#">IPI00169699</a>	Score: 38	Queries matched: 1
<a href="#">IPI00223332</a>	Score: 38	Queries matched: 1
<a href="#">IPI00224319</a>	Score: 38	Queries matched: 1
<a href="#">IPI00271059</a>	Score: 38	Queries matched: 1
<a href="#">IPI00272230</a>	Score: 38	Queries matched: 1
<a href="#">IPI00316495</a>	Score: 38	Queries matched: 1
<a href="#">IPI00331128</a>	Score: 38	Queries matched: 1
<a href="#">IPI00331205</a>	Score: 38	Queries matched: 1
<a href="#">IPI00404357</a>	Score: 38	Queries matched: 1
<a href="#">IPI00411115</a>	Score: 38	Queries matched: 1
<a href="#">IPI00468209</a>	Score: 38	Queries matched: 1
<a href="#">IPI00648888</a>	Score: 38	Queries matched: 1
<a href="#">IPI00651876</a>	Score: 38	Queries matched: 1
<a href="#">IPI00654255</a>	Score: 38	Queries matched: 1
<a href="#">IPI00671283</a>	Score: 38	Queries matched: 1
<a href="#">IPI00751303</a>	Score: 38	Queries matched: 1
<a href="#">IPI00757464</a>	Score: 38	Queries matched: 1
<a href="#">IPI00830932</a>	Score: 38	Queries matched: 1
<a href="#">IPI00894915</a>	Score: 38	Queries matched: 1
<a href="#">IPI00895100</a>	Score: 38	Queries matched: 1
<a href="#">IPI00944081</a>	Score: 38	Queries matched: 1

35.	<a href="#">IPI00116697</a>	Score: 38	Queries matched: 1							
	Tax_Id=10090	Gene_Symbol=Rab6	Isoform 1 of Ras-related protein Rab-6A							
	<b>Query</b>	<b>Observed</b>	<b>Mr(expt)</b>	<b>Mr(calc)</b>	<b>ppm</b>	<b>Miss Score</b>	<b>Expect</b>	<b>Rank</b>	<b>Peptide</b>	
	<a href="#">642</a>	658.8356	1315.6566	1315.6521	3.49	0	38	0.011	1	R.LQLWDTAGQER.F

## Proteins matching the same set of peptides:

<a href="#">IPI00221836</a>	Score: 38	Queries matched: 1
<a href="#">IPI00230011</a>	Score: 38	Queries matched: 1
<a href="#">IPI00378145</a>	Score: 38	Queries matched: 1
<a href="#">IPI00757748</a>	Score: 38	Queries matched: 1

36.	<a href="#">IPI00136271</a>	Score: 38	Queries matched: 1							
	Tax_Id=10090	Gene_Symbol=Rab33b	Putative uncharacterized protein							
	<b>Query</b>	<b>Observed</b>	<b>Mr(expt)</b>	<b>Mr(calc)</b>	<b>ppm</b>	<b>Miss Score</b>	<b>Expect</b>	<b>Rank</b>	<b>Peptide</b>	
	<a href="#">642</a>	658.8356	1315.6566	1315.6521	3.49	0	38	0.011	1	K.IQLWDTAGQER.F

## Proteins matching the same set of peptides:

<a href="#">IPI00890284</a>	Score: 38	Queries matched: 1
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37.	<a href="#">IPI00170032</a>	Mass: 24588	Score: 38	Queries matched: 1	emPAI: 0.14
	Tax_Id=10090	Gene_Symbol=Rab15	Ras-related protein Rab-15		

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">642</a>	658.8356	1315.6566	1315.6521	3.49	0	38	0.011	1	R.IQIWDTAGQER.Y

Proteins matching the same set of peptides:

<a href="#">IPI00622236</a>	Mass: 19558	Score: 38	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Rab15	Rab15 protein	
<a href="#">IPI00880661</a>	Mass: 21411	Score: 38	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Rab15	Uncharacterized protein	
<a href="#">IPI00880893</a>	Mass: 19333	Score: 38	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Rab15	Uncharacterized protein	
<a href="#">IPI00881140</a>	Mass: 13439	Score: 38	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Rab15	Uncharacterized protein	
<a href="#">IPI00881258</a>	Mass: 16230	Score: 38	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Rab15	Uncharacterized protein	
<a href="#">IPI00884469</a>	Mass: 24602	Score: 38	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Rab15	ras-related protein Rab-15	

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38. [IPI00656325](#) Mass: 83131 Score: 37 Queries matched: 2 emPAI: 0.04  
Tax\_Id=10090 Gene\_Symbol=Nsf Vesicle-fusing ATPase

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">615</a>	646.3392	1290.6638	1290.6568	5.46	0	37	0.015	1	K.NFSGAELEGLVR.A
<a href="#">738</a>	729.3986	1456.7826	1456.7773	3.65	0	17	1.1	1	R.VLDDGELLVQTK.N

Proteins matching the same set of peptides:

<a href="#">IPI00876255</a>	Mass: 83174	Score: 37	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Nsf	83 kDa protein	

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



# Mascot Search Results

User : Dominic  
 Email : dominic.kurian@bbsrc.ac.uk  
 Search title : IPI Mouse\_15-02-2010  
 MS data file : C:\Program Files\Matrix Science\Mascot Daemon\mgf\32\_10755\mascot\_daemon\_merge.mgf  
 Database : IPI\_mouse MOUSE\_v3\_79 (54943 sequences; 24917557 residues)  
 Timestamp : 15 Feb 2011 at 11:28:31 GMT  
 Enzyme : Trypsin  
 Fixed modifications : Carbamidomethyl (C)  
 Variable modifications : Oxidation (M)  
 Mass values : Monoisotopic  
 Protein Mass : Unrestricted  
 Peptide Mass Tolerance : ± 50 ppm  
 Fragment Mass Tolerance : ± 0.2 Da  
 Max Missed Cleavages : 1  
 Instrument type : ESI-QUAD-TOF  
 Number of queries : 1078  
 Protein hits :

<a href="#">IPI00110850</a>	Tax_Id=10090	Gene_Symbol=Actb	Actin, cytoplasmic 1
<a href="#">IPI00136929</a>	Tax_Id=10090	Gene_Symbol=Actg1	Gamma actin-like protein
<a href="#">IPI00169463</a>	Tax_Id=10090	Gene_Symbol=Tubb2c	Tubulin beta-2C chain
<a href="#">IPI00109073</a>	Tax_Id=10090	Gene_Symbol=Tubb4	Tubulin beta-4 chain
<a href="#">IPI00338039</a>	Tax_Id=10090	Gene_Symbol=Tubb2a	Tubulin beta-2A chain
<a href="#">IPI00117352</a>	Tax_Id=10090	Gene_Symbol=Tubb5	Tubulin beta-5 chain
<a href="#">IPI00221528</a>	Tax_Id=10090	Gene_Symbol=Actb12	Beta-actin-like protein 2
<a href="#">IPI00117348</a>	Tax_Id=10090	Gene_Symbol=Tubal1b	Tubulin alpha-1B chain
<a href="#">IPI00110753</a>	Tax_Id=10090	Gene_Symbol=Tubal1a	Tubulin alpha-1A chain
<a href="#">IPI00112251</a>	Tax_Id=10090	Gene_Symbol=Tubb3	Tubulin beta-3 chain
<a href="#">IPI00122048</a>	Tax_Id=10090	Gene_Symbol=Atpla3	Sodium/potassium-transporting ATPase subunit alpha-3
<a href="#">IPI00420725</a>	Tax_Id=10090	Gene_Symbol=Camk2a	Uncharacterized protein
<a href="#">IPI00122928</a>	Tax_Id=10090	Gene_Symbol=Tubb6	Tubulin beta-6 chain
<a href="#">IPI00115546</a>	Tax_Id=10090	Gene_Symbol=Gnao1	Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) subunit
<a href="#">IPI00117350</a>	Tax_Id=10090	Gene_Symbol=Tuba4a	Tubulin alpha-4A chain
<a href="#">IPI00120793</a>	Tax_Id=10090	Gene_Symbol=Prnp	Major prion protein
<a href="#">IPI00135284</a>	Tax_Id=10090	Gene_Symbol=Gm16374	Glyceraldehyde-3-phosphate dehydrogenase
<a href="#">IPI00123176</a>	Tax_Id=10090	Gene_Symbol=Gm6316	Glyceraldehyde-3-phosphate dehydrogenase
<a href="#">IPI00474502</a>	Tax_Id=10090	Gene_Symbol=Camk2b	Calcium/calmodulin-dependent protein kinase type II subunit beta
<a href="#">IPI00119063</a>	Tax_Id=10090	Gene_Symbol=Lrpl	Prolow-density lipoprotein receptor-related protein 1
<a href="#">IPI00136703</a>	Tax_Id=10090	Gene_Symbol=Ckb	Creatine kinase B-type
<a href="#">IPI00139602</a>	Tax_Id=10090	Gene_Symbol=Cnp	Isoform CNPII of 2',3'-cyclic-nucleotide 3'-phosphodiesterase
<a href="#">IPI00138892</a>	Tax_Id=10090	Gene_Symbol=Uba52	Ubiquitin-60S ribosomal protein L40
<a href="#">IPI00323357</a>	Tax_Id=10090	Gene_Symbol=Hspa8	Heat shock cognate 71 kDa protein
<a href="#">IPI00348094</a>	Tax_Id=10090	Gene_Symbol=Tubb1	Tubulin, beta 1
<a href="#">IPI00608020</a>	Tax_Id=10090	Gene_Symbol=Ftl1	ferritin light chain 1
<a href="#">IPI00136372</a>	Tax_Id=10090	Gene_Symbol=Syn1	Isoform Ib of Synapsin-1
<a href="#">IPI00555023</a>	Tax_Id=10090	Gene_Symbol=Gstp1	Glutathione S-transferase P 1
<a href="#">IPI00114375</a>	Tax_Id=10090	Gene_Symbol=Dpysl2	Dihydropyrimidinase-related protein 2
<a href="#">IPI00652902</a>	Tax_Id=10090	Gene_Symbol=Gnai2	Putative uncharacterized protein
<a href="#">IPI00114642</a>	Tax_Id=10090	Gene_Symbol=Hist1h2bn;Hist1h2bl;Hist1h2bj;Hist1h2bf	Histone H2B type 1-F/J/L
<a href="#">IPI00118569</a>	Tax_Id=10090	Gene_Symbol=Gnal3	Guanine nucleotide-binding protein subunit alpha-13
<a href="#">IPI00310091</a>	Tax_Id=10090	Gene_Symbol=Ppp2r1a	Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit
<a href="#">IPI00130280</a>	Tax_Id=10090	Gene_Symbol=Atp5a1	ATP synthase subunit alpha, mitochondrial
<a href="#">IPI00625729</a>	Tax_Id=10090	Gene_Symbol=Krt1	Keratin, type II cytoskeletal 1
<a href="#">IPI00462140</a>	Tax_Id=10090	Gene_Symbol=Krt77	Keratin, type II cytoskeletal 1b
<a href="#">IPI00408378</a>	Tax_Id=10090	Gene_Symbol=Ywhaq	Isoform 1 of 14-3-3 protein theta
<a href="#">IPI00119067</a>	Tax_Id=10090	Gene_Symbol=Tppp	Tubulin polymerization-promoting protein
<a href="#">IPI00323571</a>	Tax_Id=10090	Gene_Symbol=Apoe	Apolipoprotein E
<a href="#">IPI00272878</a>	Tax_Id=10090	Gene_Symbol=Dnml	Isoform 1 of Dynamin-1
<a href="#">IPI00230145</a>	Tax_Id=10090	Gene_Symbol=Fthl	Ferritin heavy chain
<a href="#">IPI00123313</a>	Tax_Id=10090	Gene_Symbol=Uba1	Ubiquitin-like modifier-activating enzyme 1
<a href="#">IPI00131366</a>	Tax_Id=10090	Gene_Symbol=Krt6b	Keratin, type II cytoskeletal 6B
<a href="#">IPI00462072</a>	Tax_Id=10090	Gene_Symbol=Eno1;Gm5506	Alpha-enolase
<a href="#">IPI00266188</a>	Tax_Id=10090	Gene_Symbol=Cfl12	Cofilin-2
<a href="#">IPI00230680</a>	Tax_Id=10090	Gene_Symbol=Atp4a	Potassium-transporting ATPase alpha chain 1
<a href="#">IPI00268145</a>	Tax_Id=10090	Gene_Symbol=Atp12a	Potassium-transporting ATPase alpha chain 2
<a href="#">IPI00222632</a>	Tax_Id=10090	Gene_Symbol=Rab31	ras-related protein Rab-31
<a href="#">IPI00755181</a>	Tax_Id=10090	Gene_Symbol=Krt10	keratin, type I cytoskeletal 10
<a href="#">IPI00134492</a>	Tax_Id=10090	Gene_Symbol=Syn2	Isoform IIB of Synapsin-2
<a href="#">IPI00415402</a>	Tax_Id=10090	Gene_Symbol=Stxbp1	Isoform 1 of Syntaxin-binding protein 1
<a href="#">IPI00656325</a>	Tax_Id=10090	Gene_Symbol=Nsf	Vesicle-fusing ATPase
<a href="#">IPI00135106</a>	Tax_Id=10090	Gene_Symbol=Mobp	Isoform 1 of Myelin-associated oligodendrocyte basic protein

### IPI\_mouse [Decoy](#) False discovery rate

Peptide matches above identity threshold	145	0	0.00 %
Peptide matches above homology or identity threshold	161	0	0.00 %

### Select Summary Report

[Format As](#)    [Select Summary \(protein hits\)](#)    [Help](#)  
 Significance threshold  $p < 0.01$     Max. number of hits [AUTO](#)  
 Standard scoring     MudPIT scoring     Ions score or expect cut-off [0](#)    Show sub-sets [0](#)  
 Show pop-ups     Suppress pop-ups     Sort unassigned    [Decreasing Score](#)     Require bold red

1. [IPI00110850](#)    Mass: 42052    Score: 818    Queries matched: 24    emPAI: 1.88  
 Tax\_Id=10090    Gene\_Symbol=Actb    Actin, cytoplasmic 1  

Query	Observed	Mr (expt)	Mr (calc)	ppm	Miss Score	Expect	Rank	Peptide
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<a href="#">279</a>	488.7281	975.4416	975.4410	0.65	0	22	0.31	1	K.AGFAGDDAPR.A
<a href="#">403</a>	566.7664	1131.5182	1131.5197	-1.24	0	39	0.0064	1	R.GYSFTTTAER.E
<a href="#">437</a>	581.3213	1160.6280	1160.6111	14.6	0	44	0.0035	1	K.EITALAPSTMK.I <a href="#">436</a>
<a href="#">450</a>	586.2927	1170.5708	1170.5638	6.02	0	41	0.0053	1	R.HQGMVMGMGQK.D <a href="#">451</a>
<a href="#">456</a>	589.3190	1176.6234	1176.6060	14.8	0	(5)	21	5	K.EITALAPSTMK.I
<a href="#">482</a>	599.8567	1197.6988	1197.6982	0.52	0	60	3.5e-005	1	R.AVFEHPVIGVPR.H <a href="#">483</a>
<a href="#">488</a>	602.2874	1202.5602	1202.5536	5.50	0	(34)	0.027	1	R.HQGMVMGMGQK.D
<a href="#">665</a>	677.8166	1353.6186	1353.6161	1.91	1	74	2.2e-006	1	K.DSVYVGDEAQSQR.G <a href="#">664</a>
<a href="#">763</a>	774.9140	1547.8134	1547.8051	5.39	1	91	5.1e-008	1	R.MQKEITALAPSTMK.I
<a href="#">854</a>	812.4282	1622.8418	1622.8338	4.98	1	52	0.00033	1	R.LDLAGRDLTDYLMK.I
<a href="#">923</a>	895.9495	1789.8844	1789.8846	-0.10	0	95	1.9e-008	1	K.SYELPDGQVITIGNER.F <a href="#">922</a> <a href="#">924</a> <a href="#">925</a>
<a href="#">972</a>	652.0197	1953.0373	1953.0571	-10.15	0	68	7.4e-006	1	R.VAPEEHPVLLTEAPLNPK.A <a href="#">973</a>
<a href="#">1011</a>	1108.0479	2214.0812	2214.0627	8.39	0	66	1.3e-005	1	K.DLYANTVLSGGTTMYPGLADR.M
<a href="#">1068</a>	1061.8734	3182.5984	3182.6071	-2.73	0	159	3.8e-015	1	R.TTGIVMDSGDGVHTVPIYEGYALPHAILR.L <a href="#">1066</a> <a href="#">1067</a>

## Proteins matching the same set of peptides:

[IPI00874482](#) Mass: 42108 Score: 818 Queries matched: 24  
Tax\_id=10090 Gene\_Symbol=Actg1 Actin, cytoplasmic 2

2. [IPI00136929](#) Mass: 44029 Score: 726 Queries matched: 18 emPAI: 1.21

Tax\_id=10090 Gene\_Symbol=Actg1 Gamma actin-like protein

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">403</a>	566.7664	1131.5182	1131.5197	-1.24	0	39	0.0064	1	R.GYSFTTTAER.E
<a href="#">437</a>	581.3213	1160.6280	1160.6111	14.6	0	44	0.0035	1	K.EITALAPSTMK.I <a href="#">436</a>
<a href="#">456</a>	589.3190	1176.6234	1176.6060	14.8	0	(5)	21	5	K.EITALAPSTMK.I
<a href="#">665</a>	677.8166	1353.6186	1353.6161	1.91	1	74	2.2e-006	1	K.DSVYVGDEAQSQR.G <a href="#">664</a>
<a href="#">763</a>	774.9140	1547.8134	1547.8051	5.39	1	91	5.1e-008	1	R.MQKEITALAPSTMK.I
<a href="#">854</a>	812.4282	1622.8418	1622.8338	4.98	1	52	0.00033	1	R.LDLAGRDLTDYLMK.I
<a href="#">923</a>	895.9495	1789.8844	1789.8846	-0.10	0	95	1.9e-008	1	K.SYELPDGQVITIGNER.F <a href="#">922</a> <a href="#">924</a> <a href="#">925</a>
<a href="#">972</a>	652.0197	1953.0373	1953.0571	-10.15	0	68	7.4e-006	1	R.VAPEEHPVLLTEAPLNPK.R <a href="#">973</a>
<a href="#">1011</a>	1108.0479	2214.0812	2214.0627	8.39	0	66	1.3e-005	1	K.DLYANTVLSGGTTMYPGLADR.M
<a href="#">1068</a>	1061.8734	3182.5984	3182.6071	-2.73	0	159	3.8e-015	1	R.TTGIVMDSGDGVHTVPIYEGYALPHAILR.L <a href="#">1066</a> <a href="#">1067</a>

3. [IPI00169463](#) Mass: 50255 Score: 656 Queries matched: 29 emPAI: 1.94

Tax\_id=10090 Gene\_Symbol=Tubb2c Tubulin beta-2C chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">339</a>	539.2715	1076.5284	1076.5250	3.17	1	35	0.026	1	K.IREEYPDR.I <a href="#">338</a> <a href="#">340</a>
<a href="#">409</a>	572.3189	1142.6232	1142.6270	-3.31	0	(64)	3.3e-005	1	K.LAVNMVPPFR.L <a href="#">410</a>
<a href="#">431</a>	580.3211	1158.6276	1158.6219	4.92	0	83	4.5e-007	1	K.LAVNMVPPFR.L
<a href="#">521</a>	615.3052	1228.5958	1228.5910	3.92	0	68	1.2e-005	1	R.ISEQFTAMFR.R
<a href="#">541</a>	623.2966	1244.5786	1244.5860	-5.87	0	(6)	14	1	R.ISEQFTAMFR.R
<a href="#">632</a>	660.3535	1318.6924	1318.6955	-2.32	0	72	5e-006	1	R.IMNTFSVVPSPK.V <a href="#">633</a>
<a href="#">643</a>	664.8295	1327.6444	1327.6408	2.74	0	70	6.3e-006	1	R.INVYNEATGGK.Y
<a href="#">648</a>	668.3517	1334.6888	1334.6904	-1.19	0	(50)	0.00078	1	R.IMNTFSVVPSPK.V
<a href="#">708</a>	723.8540	1445.6934	1445.6820	7.90	0	59	8.6e-005	1	K.EVDEQMLNVQNK.N
<a href="#">837</a>	801.4127	1600.8108	1600.8131	-1.38	0	(28)	0.098	1	R.AVLVDLEPGTMSVRS.S
<a href="#">844</a>	809.4111	1616.8076	1616.8080	-0.21	0	39	0.0077	1	R.AVLVDLEPGTMSVRS.S
<a href="#">849</a>	540.9459	1619.8159	1619.8283	-7.65	0	47	0.0014	1	R.LHFFMPGFAPLTSR.G <a href="#">850</a>
<a href="#">875</a>	846.4407	1690.8668	1690.8600	4.05	0	72	4.3e-006	1	R.ALTVPPELTQQMFDK.N <a href="#">874</a>
<a href="#">878</a>	848.9237	1695.8328	1695.8257	4.24	0	50	0.00065	1	K.NSSYFVEWIPNVK.T <a href="#">877</a>
<a href="#">887</a>	854.4349	1706.8552	1706.8549	0.19	0	(53)	0.00036	2	R.ALTVPPELTQQMFDK.N <a href="#">889</a> <a href="#">890</a>
<a href="#">949</a>	929.4739	1856.9332	1856.9342	-0.52	0	46	0.0016	1	K.MSATFIGNSTAIQELFKR.I
<a href="#">992</a>	672.0167	2013.0283	2013.0353	-3.50	1	134	1.9e-012	1	K.MSATFIGNSTAIQELFKR.I
<a href="#">1048</a>	933.4539	2797.3399	2797.3361	1.34	0	104	1.4e-009	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G <a href="#">1047</a> <a href="#">1049</a>

4. [IPI00109073](#) Mass: 50010 Score: 638 Queries matched: 25 emPAI: 1.60

Tax\_id=10090 Gene\_Symbol=Tubb4 Tubulin beta-4 chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">409</a>	572.3189	1142.6232	1142.6270	-3.31	0	(64)	3.3e-005	1	K.LAVNMVPPFR.L <a href="#">410</a>
<a href="#">431</a>	580.3211	1158.6276	1158.6219	4.92	0	83	4.5e-007	1	K.LAVNMVPPFR.L
<a href="#">521</a>	615.3052	1228.5958	1228.5910	3.92	0	68	1.2e-005	1	R.ISEQFTAMFR.R
<a href="#">541</a>	623.2966	1244.5786	1244.5860	-5.87	0	(6)	14	1	R.ISEQFTAMFR.R
<a href="#">632</a>	660.3535	1318.6924	1318.6955	-2.32	0	72	5e-006	1	R.IMNTFSVVPSPK.V <a href="#">633</a>
<a href="#">648</a>	668.3517	1334.6888	1334.6904	-1.19	0	(50)	0.00078	1	R.IMNTFSVVPSPK.V
<a href="#">837</a>	801.4127	1600.8108	1600.8131	-1.38	0	(28)	0.098	1	R.AVLVDLEPGTMSVRS.S
<a href="#">844</a>	809.4111	1616.8076	1616.8080	-0.21	0	39	0.0077	1	R.AVLVDLEPGTMSVRS.S
<a href="#">849</a>	540.9459	1619.8159	1619.8283	-7.65	0	47	0.0014	1	R.LHFFMPGFAPLTSR.G <a href="#">850</a>
<a href="#">875</a>	846.4407	1690.8668	1690.8600	4.05	0	72	4.3e-006	1	R.ALTVPPELTQQMFDK.N <a href="#">874</a>
<a href="#">878</a>	848.9237	1695.8328	1695.8257	4.24	0	50	0.00065	1	K.NSSYFVEWIPNVK.T <a href="#">877</a>
<a href="#">887</a>	854.4349	1706.8552	1706.8549	0.19	0	(53)	0.00036	2	R.ALTVPPELTQQMFDK.N <a href="#">889</a> <a href="#">890</a>
<a href="#">937</a>	915.4451	1828.8756	1828.8744	0.69	0	114	2.2e-010	1	R.INVYNEATGGYVPR.A
<a href="#">949</a>	929.4739	1856.9332	1856.9342	-0.52	0	43	0.0029	2	K.MAATFIGNSTAIQELFKR.R
<a href="#">992</a>	672.0167	2013.0283	2013.0353	-3.50	1	116	1.3e-010	3	K.MAATFIGNSTAIQELFKR.I
<a href="#">1048</a>	933.4539	2797.3399	2797.3361	1.34	0	104	1.4e-009	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G <a href="#">1047</a> <a href="#">1049</a>

5. [IPI00338039](#) Mass: 50274 Score: 600 Queries matched: 30 emPAI: 1.76

Tax\_id=10090 Gene\_Symbol=Tubb2a Tubulin beta-2A chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">339</a>	539.2715	1076.5284	1076.5250	3.17	1	35	0.026	1	K.IREEYPDR.I <a href="#">338</a> <a href="#">340</a>
<a href="#">409</a>	572.3189	1142.6232	1142.6270	-3.31	0	(64)	3.3e-005	1	K.LAVNMVPPFR.L <a href="#">410</a>
<a href="#">431</a>	580.3211	1158.6276	1158.6219	4.92	0	83	4.5e-007	1	K.LAVNMVPPFR.L
<a href="#">521</a>	615.3052	1228.5958	1228.5910	3.92	0	68	1.2e-005	1	R.ISEQFTAMFR.R
<a href="#">541</a>	623.2966	1244.5786	1244.5860	-5.87	0	(6)	14	1	R.ISEQFTAMFR.R
<a href="#">600</a>	676.3409	1350.6672	1350.6676	-0.24	0	63	3.8e-005	1	R.IMNTFSVVPSPK.V <a href="#">659</a>
<a href="#">708</a>	723.8540	1445.6934	1445.6820	7.90	0	59	8.6e-005	1	K.EVDEQMLNVQNK.N
<a href="#">841</a>	808.4230	1614.8314	1614.8287	1.70	0	77	1.5e-006	1	R.AILVDLEPGTMSVRS.S <a href="#">842</a>
<a href="#">849</a>	540.9459	1619.8159	1619.8283	-7.65	0	47	0.0014	1	R.LHFFMPGFAPLTSR.G <a href="#">850</a>

<a href="#">858</a>	<a href="#">816.4194</a>	<a href="#">1630.8242</a>	<a href="#">1630.8236</a>	<a href="#">0.38</a>	<a href="#">0</a>	<a href="#">(58)</a>	<a href="#">0.00011</a>	<a href="#">1</a>	<a href="#">R.AILVDLEPGTMSVR.S</a>	<a href="#">859</a>
<a href="#">878</a>	<a href="#">848.9237</a>	<a href="#">1695.8328</a>	<a href="#">1695.8257</a>	<a href="#">4.24</a>	<a href="#">0</a>	<a href="#">50</a>	<a href="#">0.00065</a>	<a href="#">1</a>	<a href="#">K.NSSYPVEIWPNNVK.T</a>	<a href="#">877</a>
<a href="#">887</a>	<a href="#">854.4349</a>	<a href="#">1706.8552</a>	<a href="#">1706.8549</a>	<a href="#">0.19</a>	<a href="#">0</a>	<a href="#">66</a>	<a href="#">1.6e-005</a>	<a href="#">1</a>	<a href="#">R.ALTVPPELTQQMFDSK.N</a>	<a href="#">889 890</a>
<a href="#">896</a>	<a href="#">862.4366</a>	<a href="#">1722.8586</a>	<a href="#">1722.8498</a>	<a href="#">5.11</a>	<a href="#">0</a>	<a href="#">(11)</a>	<a href="#">4.4</a>	<a href="#">1</a>	<a href="#">R.ALTVPPELTQQMFDSK.N</a>	
<a href="#">949</a>	<a href="#">929.4739</a>	<a href="#">1856.9332</a>	<a href="#">1856.9342</a>	<a href="#">-0.52</a>	<a href="#">0</a>	<a href="#">46</a>	<a href="#">0.0016</a>	<a href="#">1</a>	<a href="#">K.MSATFIGNSTAIQELFK.R</a>	
<a href="#">958</a>	<a href="#">624.3088</a>	<a href="#">1869.9046</a>	<a href="#">1869.9373</a>	<a href="#">-17.50</a>	<a href="#">1</a>	<a href="#">33</a>	<a href="#">0.028</a>	<a href="#">1</a>	<a href="#">R.INVYNEAAGNKYVPR.A</a>	
<a href="#">992</a>	<a href="#">672.0167</a>	<a href="#">2013.0283</a>	<a href="#">2013.0353</a>	<a href="#">-3.50</a>	<a href="#">1</a>	<a href="#">134</a>	<a href="#">1.9e-012</a>	<a href="#">1</a>	<a href="#">K.MSATFIGNSTAIQELFKR.I</a>	
<a href="#">1048</a>	<a href="#">933.4539</a>	<a href="#">2797.3399</a>	<a href="#">2797.3361</a>	<a href="#">1.34</a>	<a href="#">0</a>	<a href="#">104</a>	<a href="#">1.4e-009</a>	<a href="#">1</a>	<a href="#">R.SGPFQIFRPDNFVFGQSGAGNNWAK.G</a>	<a href="#">1047 1049</a>
<a href="#">1065</a>	<a href="#">776.3421</a>	<a href="#">3101.3393</a>	<a href="#">3101.4003</a>	<a href="#">-19.66</a>	<a href="#">0</a>	<a href="#">29</a>	<a href="#">0.022</a>	<a href="#">1</a>	<a href="#">K.FWEVISDEHGIDPTGSGYHGDSDLQLER.I</a>	

6. [IPI00117352](#) Mass: 50095 Score: 553 Queries matched: 25 emPAI: 1.60

Tax\_Id=10090 Gene\_Symbol=Tubb5 Tubulin beta-5 chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<a href="#">339</a>	<a href="#">539.2715</a>	<a href="#">1076.5284</a>	<a href="#">1076.5250</a>	<a href="#">3.17</a>	<a href="#">1</a>	<a href="#">35</a>	<a href="#">0.026</a>	<a href="#">1</a>	<a href="#">K.IREYVDPDR.I</a>	<a href="#">338 340</a>
<a href="#">409</a>	<a href="#">572.3189</a>	<a href="#">1142.6232</a>	<a href="#">1142.6270</a>	<a href="#">-3.31</a>	<a href="#">0</a>	<a href="#">(64)</a>	<a href="#">3.3e-005</a>	<a href="#">1</a>	<a href="#">K.LAVNMVFPFR.L</a>	<a href="#">410</a>
<a href="#">431</a>	<a href="#">580.3211</a>	<a href="#">1158.6276</a>	<a href="#">1158.6219</a>	<a href="#">4.92</a>	<a href="#">0</a>	<a href="#">83</a>	<a href="#">4.5e-007</a>	<a href="#">1</a>	<a href="#">K.LAVNMVFPFR.L</a>	
<a href="#">521</a>	<a href="#">615.3052</a>	<a href="#">1228.5958</a>	<a href="#">1228.5910</a>	<a href="#">3.92</a>	<a href="#">0</a>	<a href="#">68</a>	<a href="#">1.2e-005</a>	<a href="#">1</a>	<a href="#">R.ISEQFTAMFR.R</a>	
<a href="#">541</a>	<a href="#">623.2966</a>	<a href="#">1244.5786</a>	<a href="#">1244.5860</a>	<a href="#">-5.87</a>	<a href="#">0</a>	<a href="#">(6)</a>	<a href="#">14</a>	<a href="#">1</a>	<a href="#">R.ISEQFTAMFR.R</a>	
<a href="#">608</a>	<a href="#">651.3157</a>	<a href="#">1300.6168</a>	<a href="#">1300.6299</a>	<a href="#">-10.05</a>	<a href="#">0</a>	<a href="#">52</a>	<a href="#">0.00041</a>	<a href="#">1</a>	<a href="#">R.ISVYNEATGGK.Y</a>	
<a href="#">632</a>	<a href="#">660.3535</a>	<a href="#">1318.6924</a>	<a href="#">1318.6955</a>	<a href="#">-2.32</a>	<a href="#">0</a>	<a href="#">72</a>	<a href="#">5e-006</a>	<a href="#">1</a>	<a href="#">R.IMNTFSVVVSPK.V</a>	<a href="#">633</a>
<a href="#">648</a>	<a href="#">668.3517</a>	<a href="#">1334.6888</a>	<a href="#">1334.6904</a>	<a href="#">-1.19</a>	<a href="#">0</a>	<a href="#">(50)</a>	<a href="#">0.00078</a>	<a href="#">1</a>	<a href="#">R.IMNTFSVVVSPK.V</a>	
<a href="#">708</a>	<a href="#">723.8540</a>	<a href="#">1445.6934</a>	<a href="#">1445.6820</a>	<a href="#">7.90</a>	<a href="#">0</a>	<a href="#">59</a>	<a href="#">8.6e-005</a>	<a href="#">1</a>	<a href="#">K.EVDEQMLNVTQNK.N</a>	
<a href="#">841</a>	<a href="#">808.4230</a>	<a href="#">1614.8314</a>	<a href="#">1614.8287</a>	<a href="#">1.70</a>	<a href="#">0</a>	<a href="#">77</a>	<a href="#">1.5e-006</a>	<a href="#">1</a>	<a href="#">R.AILVDLEPGTMSVR.S</a>	<a href="#">842</a>
<a href="#">849</a>	<a href="#">540.9459</a>	<a href="#">1619.8159</a>	<a href="#">1619.8283</a>	<a href="#">-7.65</a>	<a href="#">0</a>	<a href="#">47</a>	<a href="#">0.0014</a>	<a href="#">1</a>	<a href="#">R.LHFFMPGFAPLTSR.G</a>	<a href="#">850</a>
<a href="#">858</a>	<a href="#">816.4194</a>	<a href="#">1630.8242</a>	<a href="#">1630.8236</a>	<a href="#">0.38</a>	<a href="#">0</a>	<a href="#">(58)</a>	<a href="#">0.00011</a>	<a href="#">1</a>	<a href="#">R.AILVDLEPGTMSVR.S</a>	<a href="#">859</a>
<a href="#">864</a>	<a href="#">830.4438</a>	<a href="#">1658.8730</a>	<a href="#">1658.8879</a>	<a href="#">-8.98</a>	<a href="#">0</a>	<a href="#">72</a>	<a href="#">3.8e-006</a>	<a href="#">1</a>	<a href="#">R.ALTVPPELTQQVFDK.N</a>	
<a href="#">878</a>	<a href="#">848.9237</a>	<a href="#">1695.8328</a>	<a href="#">1695.8257</a>	<a href="#">4.24</a>	<a href="#">0</a>	<a href="#">50</a>	<a href="#">0.00065</a>	<a href="#">1</a>	<a href="#">K.NSSYPVEIWPNNVK.T</a>	<a href="#">877</a>
<a href="#">1048</a>	<a href="#">933.4539</a>	<a href="#">2797.3399</a>	<a href="#">2797.3361</a>	<a href="#">1.34</a>	<a href="#">0</a>	<a href="#">104</a>	<a href="#">1.4e-009</a>	<a href="#">1</a>	<a href="#">R.SGPFQIFRPDNFVFGQSGAGNNWAK.G</a>	<a href="#">1047 1049</a>

7. [IPI00221528](#) Mass: 42319 Score: 498 Queries matched: 13 emPAI: 0.83

Tax\_Id=10090 Gene\_Symbol=Actb12 Beta-actin-like protein 2

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<a href="#">450</a>	<a href="#">586.2927</a>	<a href="#">1170.5708</a>	<a href="#">1170.5638</a>	<a href="#">6.02</a>	<a href="#">0</a>	<a href="#">41</a>	<a href="#">0.0053</a>	<a href="#">1</a>	<a href="#">R.HQGMVVMGQK.D</a>	<a href="#">451</a>
<a href="#">488</a>	<a href="#">602.2874</a>	<a href="#">1202.5602</a>	<a href="#">1202.5536</a>	<a href="#">5.50</a>	<a href="#">0</a>	<a href="#">(34)</a>	<a href="#">0.027</a>	<a href="#">1</a>	<a href="#">R.HQGMVVMGQK.D</a>	
<a href="#">854</a>	<a href="#">812.4282</a>	<a href="#">1622.8418</a>	<a href="#">1622.8338</a>	<a href="#">4.98</a>	<a href="#">1</a>	<a href="#">52</a>	<a href="#">0.00033</a>	<a href="#">1</a>	<a href="#">R.LDLAQRDLTDYLMK.I</a>	
<a href="#">923</a>	<a href="#">895.9495</a>	<a href="#">1789.8844</a>	<a href="#">1789.8846</a>	<a href="#">-0.10</a>	<a href="#">0</a>	<a href="#">95</a>	<a href="#">1.9e-008</a>	<a href="#">1</a>	<a href="#">R.SYELPDGQVITIGNER.F</a>	<a href="#">922 924 925</a>
<a href="#">972</a>	<a href="#">652.0197</a>	<a href="#">1953.0373</a>	<a href="#">1953.0571</a>	<a href="#">-10.15</a>	<a href="#">0</a>	<a href="#">50</a>	<a href="#">0.00051</a>	<a href="#">2</a>	<a href="#">R.VAPDEHPILLTEAPLNPK.I</a>	<a href="#">973</a>
<a href="#">1068</a>	<a href="#">1061.8734</a>	<a href="#">3182.5984</a>	<a href="#">3182.6071</a>	<a href="#">-2.73</a>	<a href="#">0</a>	<a href="#">159</a>	<a href="#">3.8e-015</a>	<a href="#">1</a>	<a href="#">R.TTGIVMDSGDGVTHVTPIYEGYALPHAILR.L</a>	<a href="#">1066 1067</a>

8. [IPI00117348](#) Mass: 50804 Score: 427 Queries matched: 16 emPAI: 0.55

Tax\_Id=10090 Gene\_Symbol=Tubalb Tubulin alpha-1B chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<a href="#">243</a>	<a href="#">455.2580</a>	<a href="#">908.5014</a>	<a href="#">908.4967</a>	<a href="#">5.21</a>	<a href="#">1</a>	<a href="#">2</a>	<a href="#">33</a>	<a href="#">2</a>	<a href="#">R.LSVDYGKK.S</a>	
<a href="#">294</a>	<a href="#">508.2930</a>	<a href="#">1014.5714</a>	<a href="#">1014.5709</a>	<a href="#">0.50</a>	<a href="#">0</a>	<a href="#">26</a>	<a href="#">0.19</a>	<a href="#">1</a>	<a href="#">K.DVNAAIATIK.T</a>	
<a href="#">736</a>	<a href="#">744.4408</a>	<a href="#">1486.8670</a>	<a href="#">1486.8719</a>	<a href="#">-3.24</a>	<a href="#">0</a>	<a href="#">18</a>	<a href="#">0.45</a>	<a href="#">1</a>	<a href="#">R.LIQVIVSSITASLR.F</a>	
<a href="#">883</a>	<a href="#">851.4699</a>	<a href="#">1700.9252</a>	<a href="#">1700.8985</a>	<a href="#">15.7</a>	<a href="#">0</a>	<a href="#">80</a>	<a href="#">4.4e-007</a>	<a href="#">1</a>	<a href="#">R.AVFDVLEPTVIDEVR.T</a>	<a href="#">882</a>
<a href="#">893</a>	<a href="#">859.9458</a>	<a href="#">1717.8770</a>	<a href="#">1717.8747</a>	<a href="#">1.36</a>	<a href="#">0</a>	<a href="#">67</a>	<a href="#">1.3e-005</a>	<a href="#">1</a>	<a href="#">R.NLDIERPTYTLNLR.L</a>	<a href="#">894</a>
<a href="#">934</a>	<a href="#">912.9977</a>	<a href="#">1823.9808</a>	<a href="#">1823.9782</a>	<a href="#">1.47</a>	<a href="#">0</a>	<a href="#">29</a>	<a href="#">0.052</a>	<a href="#">1</a>	<a href="#">K.VINGIQPPTVPPGGDLAK.V</a>	<a href="#">935</a>
<a href="#">990</a>	<a href="#">1004.4575</a>	<a href="#">2006.9004</a>	<a href="#">2006.8858</a>	<a href="#">7.30</a>	<a href="#">0</a>	<a href="#">89</a>	<a href="#">5.8e-008</a>	<a href="#">1</a>	<a href="#">K.TIGGGDDSFNTFFSETGAGK.H</a>	
<a href="#">1028</a>	<a href="#">1205.1035</a>	<a href="#">2408.1924</a>	<a href="#">2408.2012</a>	<a href="#">-3.65</a>	<a href="#">0</a>	<a href="#">125</a>	<a href="#">1.4e-011</a>	<a href="#">1</a>	<a href="#">R.FDGALNVDLTEFQTNLVYPYR.I</a>	
<a href="#">1033</a>	<a href="#">805.7347</a>	<a href="#">2414.1823</a>	<a href="#">2414.1978</a>	<a href="#">-6.44</a>	<a href="#">1</a>	<a href="#">78</a>	<a href="#">8e-007</a>	<a href="#">1</a>	<a href="#">R.QLFHPQLITGKEDAANNYR.G</a>	<a href="#">1030 1031 1032 1034</a>

Proteins matching the same set of peptides:

[IPI00403810](#) Mass: 50562 Score: 427 Queries matched: 16

Tax\_Id=10090 Gene\_Symbol=Tubalc Tubulin alpha-1C chain

9. [IPI00110753](#) Mass: 50788 Score: 427 Queries matched: 16 emPAI: 0.55

Tax\_Id=10090 Gene\_Symbol=Tubala Tubulin alpha-1A chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<a href="#">243</a>	<a href="#">455.2580</a>	<a href="#">908.5014</a>	<a href="#">908.4967</a>	<a href="#">5.21</a>	<a href="#">1</a>	<a href="#">2</a>	<a href="#">33</a>	<a href="#">2</a>	<a href="#">R.LSVDYGKK.S</a>	
<a href="#">294</a>	<a href="#">508.2930</a>	<a href="#">1014.5714</a>	<a href="#">1014.5709</a>	<a href="#">0.50</a>	<a href="#">0</a>	<a href="#">26</a>	<a href="#">0.19</a>	<a href="#">1</a>	<a href="#">K.DVNAAIATIK.T</a>	
<a href="#">713</a>	<a href="#">729.4382</a>	<a href="#">1456.8618</a>	<a href="#">1456.8613</a>	<a href="#">0.37</a>	<a href="#">0</a>	<a href="#">8</a>	<a href="#">2.8</a>	<a href="#">1</a>	<a href="#">R.LIQVIVSSITASLR.F</a>	
<a href="#">883</a>	<a href="#">851.4699</a>	<a href="#">1700.9252</a>	<a href="#">1700.8985</a>	<a href="#">15.7</a>	<a href="#">0</a>	<a href="#">80</a>	<a href="#">4.4e-007</a>	<a href="#">1</a>	<a href="#">R.AVFDVLEPTVIDEVR.T</a>	<a href="#">882</a>
<a href="#">893</a>	<a href="#">859.9458</a>	<a href="#">1717.8770</a>	<a href="#">1717.8747</a>	<a href="#">1.36</a>	<a href="#">0</a>	<a href="#">67</a>	<a href="#">1.3e-005</a>	<a href="#">1</a>	<a href="#">R.NLDIERPTYTLNLR.L</a>	<a href="#">894</a>
<a href="#">934</a>	<a href="#">912.9977</a>	<a href="#">1823.9808</a>	<a href="#">1823.9782</a>	<a href="#">1.47</a>	<a href="#">0</a>	<a href="#">29</a>	<a href="#">0.052</a>	<a href="#">1</a>	<a href="#">K.VINGIQPPTVPPGGDLAK.V</a>	<a href="#">935</a>
<a href="#">990</a>	<a href="#">1004.4575</a>	<a href="#">2006.9004</a>	<a href="#">2006.8858</a>	<a href="#">7.30</a>	<a href="#">0</a>	<a href="#">89</a>	<a href="#">5.8e-008</a>	<a href="#">1</a>	<a href="#">K.TIGGGDDSFNTFFSETGAGK.H</a>	
<a href="#">1028</a>	<a href="#">1205.1035</a>	<a href="#">2408.1924</a>	<a href="#">2408.2012</a>	<a href="#">-3.65</a>	<a href="#">0</a>	<a href="#">125</a>	<a href="#">1.4e-011</a>	<a href="#">1</a>	<a href="#">R.FDGALNVDLTEFQTNLVYPYR.I</a>	
<a href="#">1033</a>	<a href="#">805.7347</a>	<a href="#">2414.1823</a>	<a href="#">2414.1978</a>	<a href="#">-6.44</a>	<a href="#">1</a>	<a href="#">78</a>	<a href="#">8e-007</a>	<a href="#">1</a>	<a href="#">R.QLFHPQLITGKEDAANNYR.G</a>	<a href="#">1030 1031 1032 1034</a>

10. [IPI00112251](#) Mass: 50842 Score: 426 Queries matched: 21 emPAI: 0.87

Tax\_Id=10090 Gene\_Symbol=Tubb3 Tubulin beta-3 chain

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide	
<a href="#">332</a>	<a href="#">532.2687</a>	<a href="#">1062.5228</a>	<a href="#">1062.5094</a>	<a href="#">12.7</a>	<a href="#">1</a>	<a href="#">25</a>	<a href="#">0.26</a>	<a href="#">1</a>	<a href="#">K.VREEYVDR.I</a>	
<a href="#">409</a>	<a href="#">572.3189</a>	<a href="#">1142.6232</a>	<a href="#">1142.6270</a>	<a href="#">-3.31</a>	<a href="#">0</a>	<a href="#">(64)</a>	<a href="#">3.3e-005</a>	<a href="#">1</a>	<a href="#">K.LAVNMVFPFR.L</a>	<a href="#">410</a>
<a href="#">431</a>	<a href="#">580.3211</a>	<a href="#">1158.6276</a>	<a href="#">1158.6219</a>	<a href="#">4.92</a>	<a href="#">0</a>	<a href="#">83</a>	<a href="#">4.5e-007</a>	<a href="#">1</a>	<a href="#">K.LAVNMVFPFR.L</a>	
<a href="#">521</a>	<a href="#">615.3052</a>	<a href="#">1228.5958</a>	<a href="#">1228.5910</a>	<a href="#">3.92</a>	<a href="#">0</a>	<a href="#">68</a>	<a href="#">1.2e-005</a>	<a href="#">1</a>	<a href="#">R.ISEQFTAMFR.R</a>	
<a href="#">541</a>	<a href="#">623.2966</a>	<a href="#">1244.5786</a>	<a href="#">1244.5860</a>	<a href="#">-5.87</a>	<a href="#">0</a>	<a href="#">(6)</a>	<a href="#">14</a>	<a href="#">1</a>	<a href="#">R.ISEQFTAMFR.R</a>	
<a href="#">632</a>	<a href="#">660.3535</a>	<a href="#">1318.6924</a>	<a href="#">1318.6955</a>	<a href="#">-2.32</a>	<a href="#">0</a>	<a href="#">72</a>	<a href="#">5e-006</a>	<a href="#">1</a>	<a href="#">R.IMNTFSVVVSPK.V</a>	<a href="#">633</a>
<a href="#">648</a>	<a href="#">668.3517</a>	<a href="#">1334.6888</a>	<a href="#">1334.6904</a>	<a href="#">-1.19</a>	<a href="#">0</a>	<a href="#">(50)</a>	<a href="#">0.00078</a>	<a href="#">1</a>	<a href="#">R.IMNTFSVVVSPK.V</a>	
<a href="#">841</a>	<a href="#">808.4230</a>	<a href="#">1614.8314</a>	<a href="#">1614.8287</a>	<a href="#">1.70</a>	<a href="#">0</a>	<a href="#">77</a>	<a href="#">1.5e-006</a>	<a href="#">1</a>	<a href="#">R.AILVDLEPGTMSVR.S</a>	<a href="#">842</a>
<a href="#">850</a>	<a href="#">810.9166</a>	<a href="#">1619.8186</a>	<a href="#">1619.8283</a>	<a href="#">-5.94</a>	<a href="#">0</a>	<a href="#">19</a>	<a href="#">0.83</a>	<a href="#">2</a>	<a href="#">R.LHFFMPGFAPLTAR.G</a>	
<a href="#">858</a>	<a href="#">816.4194</a>	<a href="#">1630.8242</a>	<a href="#">1630.8236</a>	<a href="#">0.38</a>	<a href="#">0</a>	<a href="#">(58)</a>	<a href="#">0.00011</a>	<a href="#">1</a>	<a href="#">R.AILVDLEPGTMSVR.S</a>	<a href="#">859</a>
<a href="#">875</a>	<a href="#">846.4407</a>	<a href="#">1690.8668</a>	<a href="#">1690.8600</a>	<a href="#">4.05</a>	<a href="#">0</a>	<a href="#">72</a>	<a href="#">4.3e-006</a>	<a href="#">1</a>	<a href="#">R.ALTVPPELTQQMFDAK.N</a>	<a href="#">874</a>
<a href="#">878</a>										

11.	<a href="#">IPI00122048</a>	Mass: 113045	Score: 397	Queries matched: 12	emPAI: 0.22		
Tax_Id=10090 Gene_Symbol=Atpla3 Sodium/potassium-transporting ATPase subunit alpha-3							
Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect Rank	Peptide
<a href="#">327</a>	528.2854	1054.5562	1054.5520	4.07	1	18	1.1 1 K.GGDRVADLR.I
<a href="#">529</a>	618.8585	1235.7024	1235.6986	3.11	0	54	0.00015 1 R.LNIPVSVQVNR.D <a href="#">530</a>
<a href="#">573</a>	634.8594	1267.7042	1267.7071	-2.22	0	40	0.0054 1 K.NMVPQQALVIR.E <a href="#">574</a>
<a href="#">685</a>	691.3808	1380.7470	1380.7435	2.55	0	57	0.00012 1 K.VIMVTGDHPITAK.A
<a href="#">931</a>	906.4794	1810.9442	1810.9425	0.96	0	91	4.8e-008 1 R.QGAIVAVTGDGVNDSPALK.K
<a href="#">938</a>	915.4692	1828.9238	1828.9167	3.93	0	116	1.6e-010 1 K.GVGIIEGNETVEDIAR.L
<a href="#">970</a>	647.3470	1939.0192	1939.0375	-9.43	1	33	0.025 1 R.QGAIVAVTGDGVNDSPALKK.A
<a href="#">1039</a>	1232.6124	2463.2102	2463.1951	6.13	0	133	2.6e-012 1 K.QAADMILLDDNFASIVTGVVEGR.L
<a href="#">1057</a>	956.1147	2865.3223	2865.3490	-9.34	1	64	1.1e-005 1 K.EQPLDEEMKEAFQNAYLELGGGER.V <a href="#">1058</a>
Proteins matching the same set of peptides:							
<a href="#">IPI00752412</a>	Mass: 117548	Score: 397	Queries matched: 12				
Tax_Id=10090 Gene_Symbol=Atpla3 ATPase, Na+/K+ transporting, alpha 3 polypeptide, isoform CRA_c							
12.	<a href="#">IPI00420725</a>	Mass: 55882	Score: 371	Queries matched: 16	emPAI: 0.67		
Tax_Id=10090 Gene_Symbol=Camk2a Uncharacterized protein							
Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect Rank	Peptide
<a href="#">323</a>	525.2839	1048.5532	1048.5553	-1.94	0	22	0.58 1 K.VLAGQEYAAK.I
<a href="#">330</a>	530.3022	1058.5898	1058.5906	-0.73	1	51	0.00061 1 K.MLTINPSKR.I <a href="#">331</a>
<a href="#">417</a>	574.3328	1146.6510	1146.6431	6.96	0	62	3.2e-005 1 K.GAILTMLATR.N
<a href="#">568</a>	631.3073	1260.6000	1260.5927	5.79	0	62	4.9e-005 1 R.FYFENLWSR.N <a href="#">566</a>
<a href="#">614</a>	652.3557	1302.6968	1302.6932	2.81	0	71	5e-006 1 R.ITQVLDAAGIPR.T <a href="#">613</a>
<a href="#">653</a>	670.8925	1339.7704	1339.7711	-0.47	0	63	2e-005 1 R.DLKPEPLLASK.L <a href="#">654</a>
<a href="#">860</a>	816.8933	1631.7720	1631.7719	0.10	0	69	7.9e-006 1 R.FTEEYQLFEELGK.G
<a href="#">996</a>	1040.9818	2079.9490	2079.9426	3.12	0	76	1e-006 1 K.AGAYDFSPWDVTPEAK.D <a href="#">997</a>
<a href="#">1024</a>	783.7260	2348.1562	2348.1689	-5.40	1	52	0.00029 1 R.FTEEYQLFEELGKGFVSVR.R
<a href="#">1046</a>	888.7650	2663.2732	2663.2755	-0.87	1	47	0.00083 1 K.AGAYDFSPWDVTPEAKDLINK.M <a href="#">1045</a>
Proteins matching the same set of peptides:							
<a href="#">IPI00621806</a>	Mass: 54651	Score: 371	Queries matched: 16				
Tax_Id=10090 Gene_Symbol=Camk2a Isoform Alpha CaMKII of Calcium/calmodulin-dependent protein kinase type II subunit alpha							
13.	<a href="#">IPI00122928</a>	Mass: 50514	Score: 368	Queries matched: 18	emPAI: 0.66		
Tax_Id=10090 Gene_Symbol=Tubb6 Tubulin beta-6 chain							
Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect Rank	Peptide
<a href="#">339</a>	539.2715	1076.5284	1076.5250	3.17	1	35	0.026 1 K.IREYYPDR.I <a href="#">338</a> <a href="#">340</a>
<a href="#">409</a>	572.3189	1142.6232	1142.6270	-3.31	0	(64)	3.3e-005 1 K.LAVNMVPPFR.L <a href="#">410</a>
<a href="#">431</a>	580.3211	1158.6276	1158.6219	4.92	0	83	4.5e-007 1 K.LAVNMVPPFR.L
<a href="#">660</a>	676.3409	1350.6672	1350.6676	-0.24	0	63	3.8e-005 1 R.IMNTFSVMSPK.V <a href="#">659</a>
<a href="#">850</a>	810.9166	1619.8186	1619.8283	-5.94	0	19	0.83 2 R.LHFFMPGFAPLTAR.G
<a href="#">875</a>	846.4407	1690.8668	1690.8600	4.05	0	72	4.3e-006 1 R.ALTVPPELTQQMFDPAK.N <a href="#">874</a>
<a href="#">878</a>	848.9237	1695.8328	1695.8257	4.24	0	50	0.00065 1 K.NSSYFVWVFNPNVK.V <a href="#">877</a>
<a href="#">887</a>	854.4349	1706.8552	1706.8549	0.19	0	(53)	0.00036 2 R.ALTVPPELTQQMFDPAK.N <a href="#">889</a> <a href="#">890</a>
<a href="#">949</a>	929.4739	1856.9332	1856.9342	-0.52	0	36	0.016 3 K.MASTFIGNSTAIQELFK.R
<a href="#">992</a>	672.0167	2013.0283	2013.0353	-3.50	1	116	1.3e-010 2 K.MASTFIGNSTAIQELFKR.I
14.	<a href="#">IPI00115546</a>	Mass: 40524	Score: 367	Queries matched: 10	emPAI: 0.48		
Tax_Id=10090 Gene_Symbol=Gnaol Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) subunit alpha							
Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect Rank	Peptide
<a href="#">233</a>	446.2509	890.4872	890.4610	29.4	0	14	3.5 1 R.LFDVGGQR.S
<a href="#">329</a>	529.3133	1056.6120	1056.6179	-5.53	0	72	4.1e-006 1 K.LLLLGGESGK.S
<a href="#">416</a>	573.3207	1144.6268	1144.6088	15.8	1	4	34 8 K.NLKEDGISAAK.D
<a href="#">707</a>	723.3447	1444.6748	1444.6834	-5.94	0	8	9.9 2 K.IIHEDGFSGEDVK.Q
<a href="#">834</a>	792.3745	1582.7344	1582.7297	3.00	1	62	3.2e-005 1 R.AMDTLGVEYGDKER.K
<a href="#">871</a>	838.4184	1674.8222	1674.8213	0.56	0	115	2.1e-010 1 R.IGAGDYQTEQDILR.T <a href="#">872</a>
<a href="#">976</a>	979.4461	1956.8776	1956.8631	7.44	0	101	2.8e-009 1 R.MEDTEPFSAELLSAMMR.L <a href="#">975</a>
<a href="#">986</a>	987.4356	1972.8566	1972.8580	-0.69	0	(47)	0.00058 1 R.MEDTEPFSAELLSAMMR.L
Proteins matching the same set of peptides:							
<a href="#">IPI00230192</a>	Mass: 40629	Score: 367	Queries matched: 10				
Tax_Id=10090 Gene_Symbol=Gnaol Isoform Alpha-1 of Guanine nucleotide-binding protein G(o) subunit alpha							
15.	<a href="#">IPI00117350</a>	Mass: 50634	Score: 316	Queries matched: 13	emPAI: 0.46		
Tax_Id=10090 Gene_Symbol=Tuba4a Tubulin alpha-4A chain							
Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect Rank	Peptide
<a href="#">243</a>	455.2580	908.5014	908.4967	5.21	1	2	33 2 R.LSVDYGKK.S
<a href="#">736</a>	744.4408	1486.8670	1486.8719	-3.24	0	18	0.45 1 R.LISQIVSSITASLR.F
<a href="#">893</a>	859.9458	1717.8770	1717.8747	1.36	0	67	1.3e-005 1 R.NLDIERPTYTNLNR.L <a href="#">894</a>
<a href="#">934</a>	912.9977	1823.9808	1823.9782	1.47	0	29	0.052 1 K.GVINGYQPTVPPGGDLAK.V <a href="#">935</a>
<a href="#">1021</a>	768.4006	2302.1800	2302.1957	-6.85	1	45	0.0013 1 R.AVFVDLEPTVIDEIRNGPYR.Q
<a href="#">1028</a>	1205.1035	2408.1924	2408.2012	-3.65	0	125	1.4e-011 1 R.FDGNLVDLTFQTNLVPYPR.I
<a href="#">1033</a>	805.7347	2414.1823	2414.1978	-6.44	1	78	8e-007 1 R.QLFHPQLITGKEDAANNYAR.G <a href="#">1030</a> <a href="#">1031</a> <a href="#">1032</a> <a href="#">1034</a>
16.	<a href="#">IPI00120793</a>	Mass: 28131	Score: 282	Queries matched: 11	emPAI: 0.40		
Tax_Id=10090 Gene_Symbol=Prnp Major prion protein							
Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect Rank	Peptide
<a href="#">295</a>	508.7724	1015.5302	1015.5298	0.40	0	23	0.55 1 K.QHTVTTTK.G
<a href="#">349</a>	544.7376	1087.4606	1087.4570	3.33	0	41	0.0019 1 K.ESQAYYDGR.R
<a href="#">406</a>	570.2620	1138.5094	1138.5142	-4.21	0	23	0.2 1 K.GENFTETDVK.M
<a href="#">539</a>	622.7877	1243.5608	1243.5581	2.18	1	39	0.005 1 K.ESQAYYDGR.S <a href="#">536</a> <a href="#">537</a> <a href="#">538</a>
<a href="#">1002</a>	713.0141	2136.0205	2136.0335	-6.11	1	106	1.2e-009 1 K.QHTVTTTKGENFTETDVK.M <a href="#">1003</a> <a href="#">1004</a> <a href="#">1005</a>



17.	<a href="#">IPI00135284</a>	Mass: 36092	Score: 250	Queries matched: 12	emPAI: 0.42		
Tax_Id=10090 Gene_Symbol=Gm16374 Glyceraldehyde-3-phosphate dehydrogenase							
Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect Rank	Peptide
<a href="#">61</a>	596.3636	595.3563	595.3442	20.4	0	8	4.6 2 K.AGAHLK.G
<a href="#">243</a>	455.2580	908.5014	908.5192	-19.52	1	0	52 8 K.AGAHLKGGAK.R
<a href="#">667</a>	678.8332	1355.6518	1355.6465	3.96	1	51	0.00049 1 R.VVDLMAYMASKE.- <a href="#">666</a>
<a href="#">675</a>	685.3760	1368.7374	1368.7361	0.99	0	59	6.8e-005 1 R.GAAQNIIPASTGAAK.A <a href="#">674</a>
<a href="#">676</a>	686.8303	1371.6460	1371.6414	3.39	1	(13)	3.2 1 R.VVDLMAYMASKE.-
<a href="#">690</a>	694.8303	1387.6460	1387.6363	7.01	1	(21)	0.49 1 R.VVDLMAYMASKE.-
<a href="#">879</a>	849.4503	1696.8860	1696.8856	0.25	1	76	1.5e-006 1 R.DRGAQNIIPASTGAAK.A <a href="#">880</a>
<a href="#">914</a>	890.4036	1778.7926	1778.7900	1.50	0	85	1.5e-007 1 K.LISWYDNEYGYSNR.V <a href="#">913</a>
Proteins matching the same set of peptides:							
<a href="#">IPI00273646</a>	Mass: 36072	Score: 250	Queries matched: 12				
Tax_Id=10090 Gene_Symbol=Gapdh;LOC100042025 Glyceraldehyde-3-phosphate dehydrogenase							
<a href="#">IPI00622795</a>	Mass: 36074	Score: 250	Queries matched: 12				
Tax_Id=10090 Gene_Symbol=- 36 kDa protein							
<a href="#">IPI00848801</a>	Mass: 36100	Score: 250	Queries matched: 12				
Tax_Id=10090 Gene_Symbol=- 36 kDa protein							
<a href="#">IPI00849045</a>	Mass: 36072	Score: 250	Queries matched: 12				
Tax_Id=10090 Gene_Symbol=- 36 kDa protein							
<a href="#">IPI00850337</a>	Mass: 44633	Score: 250	Queries matched: 12				
Tax_Id=10090 Gene_Symbol=LOC100048117 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1							
<a href="#">IPI00850377</a>	Mass: 35975	Score: 250	Queries matched: 12				
Tax_Id=10090 Gene_Symbol=- 36 kDa protein							
<a href="#">IPI00874682</a>	Mass: 36038	Score: 250	Queries matched: 12				
Tax_Id=10090 Gene_Symbol=- 36 kDa protein							
<a href="#">IPI00874964</a>	Mass: 36512	Score: 250	Queries matched: 12				
Tax_Id=10090 Gene_Symbol=- 36 kDa protein							
18.	<a href="#">IPI00123176</a>	Mass: 36804	Score: 236	Queries matched: 9	emPAI: 0.29		
Tax_Id=10090 Gene_Symbol=Gm6316 Glyceraldehyde-3-phosphate dehydrogenase							
Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect Rank	Peptide
<a href="#">61</a>	596.3636	595.3563	595.3442	20.4	0	8	4.6 2 K.AGAHLK.G
<a href="#">243</a>	455.2580	908.5014	908.5192	-19.52	1	0	52 8 K.AGAHLKGGAK.R
<a href="#">675</a>	685.3760	1368.7374	1368.7361	0.99	0	59	6.8e-005 1 R.GAAQNIIPASTGAAK.A <a href="#">674</a>
<a href="#">841</a>	808.4230	1614.8314	1614.8512	-12.23	1	0	70 6 R.VPTRNVSVVLDLTCR.L
<a href="#">879</a>	849.4503	1696.8860	1696.8856	0.25	1	76	1.5e-006 1 R.DRGAQNIIPASTGAAK.A <a href="#">880</a>
<a href="#">914</a>	890.4036	1778.7926	1778.7900	1.50	0	85	1.5e-007 1 K.LISWYDNEYGYSNR.M <a href="#">913</a>
19.	<a href="#">IPI00474502</a>	Mass: 61164	Score: 171	Queries matched: 10	emPAI: 0.23		
Tax_Id=10090 Gene_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase type II subunit beta							
Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect Rank	Peptide
<a href="#">414</a>	572.8060	1143.5974	1143.5964	0.90	0	18	1.6 1 R.FYFENLLAK.N
<a href="#">417</a>	574.3328	1146.6510	1146.6431	6.96	0	62	3.2e-005 1 K.GAILTTLMLATR.N
<a href="#">653</a>	670.8925	1339.7704	1339.7711	-0.47	0	63	2e-005 1 R.DLKPENLLLASK.C <a href="#">654</a>
<a href="#">678</a>	687.3762	1372.7378	1372.7310	4.96	1	23	0.38 1 K.KADGVKPTNSTK.N <a href="#">677</a>
<a href="#">696</a>	702.3779	1402.7412	1402.7317	6.80	0	46	0.0019 1 R.LTQYIDGQGRPR.T
<a href="#">848</a>	810.8851	1619.7556	1619.7355	12.4	0	9	7.7 1 R.FTDEYQLYEDIGK.G
<a href="#">996</a>	1040.9818	2079.9490	2079.9426	3.12	0	76	1e-006 1 K.AGAYFPSPEDWTVTPEAK.N <a href="#">997</a>
Proteins matching the same set of peptides:							
<a href="#">IPI00475302</a>	Mass: 60053	Score: 171	Queries matched: 10				
Tax_Id=10090 Gene_Symbol=Camk2b calcium/calmodulin-dependent protein kinase type II subunit beta isoform 3							
<a href="#">IPI00515669</a>	Mass: 57159	Score: 171	Queries matched: 10				
Tax_Id=10090 Gene_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase II, beta							
<a href="#">IPI00648630</a>	Mass: 58788	Score: 171	Queries matched: 10				
Tax_Id=10090 Gene_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase II, beta							
<a href="#">IPI00649778</a>	Mass: 73827	Score: 171	Queries matched: 10				
Tax_Id=10090 Gene_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase II, beta, isoform CRA_b							
<a href="#">IPI00875723</a>	Mass: 68686	Score: 171	Queries matched: 10				
Tax_Id=10090 Gene_Symbol=Camk2b 68 kDa protein							
<a href="#">IPI00470962</a>	Mass: 61436	Score: 171	Queries matched: 10				
Tax_Id=10090 Gene_Symbol=Camk2b calcium/calmodulin-dependent protein kinase type II subunit beta isoform 1							
<a href="#">IPI00649296</a>	Mass: 65906	Score: 171	Queries matched: 10				
Tax_Id=10090 Gene_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase II, beta							
20.	<a href="#">IPI00119063</a>	Mass: 523342	Score: 170	Queries matched: 4	emPAI: 0.02		
Tax_Id=10090 Gene_Symbol=Lrp1 Prolow-density lipoprotein receptor-related protein 1							
Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect Rank	Peptide
<a href="#">679</a>	687.8944	1373.7742	1373.7667	5.50	0	73	2.2e-006 1 R.YVVISQGLDKPR.A <a href="#">680</a>
<a href="#">851</a>	811.4091	1620.8036	1620.8148	-6.85	0	75	2.2e-006 1 K.AVTDEEPLIFANR.Y
<a href="#">891</a>	854.9852	1707.9558	1707.9308	14.7	0	51	0.00023 1 K.TVLWPNGLSLDIPAGR.L
21.	<a href="#">IPI00136703</a>	Mass: 42971	Score: 170	Queries matched: 5	emPAI: 0.35		
Tax_Id=10090 Gene_Symbol=Ckb Creatine kinase B-type							
Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect Rank	Peptide
<a href="#">305</a>	516.2994	1030.5842	1030.5481	35.1	0	15	2.4 1 K.LLIEMEQR.L
<a href="#">838</a>	801.9229	1601.8312	1601.8260	3.25	0	96	1.6e-008 1 K.LAVEALSSLDGDLGR.Y
<a href="#">863</a>	828.9160	1655.8174	1655.8188	-0.85	0	59	8.3e-005 1 R.LEQQAIDDLMPAQK.-
<a href="#">944</a>	924.9993	1847.9840	1847.9703	7.44	0	56	0.00012 1 R.LGFSEVELVQMVVDGVK.L
<a href="#">1075</a>	897.6848	3586.7101	3586.7800	-19.48	0	54	9.8e-005 1 K.SMTEARQQQLIDHFLFKPVPSPLLASGMAR.D
22.	<a href="#">IPI00319602</a>	Mass: 47493	Score: 159	Queries matched: 3	emPAI: 0.14		
Tax_Id=10090 Gene_Symbol=Cnp Isoform CNPII of 2',3'-cyclic-nucleotide 3'-phosphodiesterase							

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">291</a>	500.7604	999.5062	999.4808	25.5	1	1	57	3	-_MNTSFTRK.S
<a href="#">560</a>	628.8163	1255.6180	1255.6157	1.89	0	70	6.3e-006	1	K.GGSQGEAVGELPR.G
<a href="#">861</a>	824.9201	1647.8256	1647.8216	2.45	1	124	2.8e-011	1	K.AAGAEYYAQQEVVVKR.S

23. [IPI00138892](#) Mass: 15004 Score: 158 Queries matched: 4 emPAI: 0.85

Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin-60S ribosomal protein L40

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">82</a>	648.4186	647.4113	647.4006	16.5	0	35	0.0084	1	R.LIFAGK.Q
<a href="#">752</a>	762.3943	1522.7740	1522.7740	0.06	1	82	4e-007	1	K.IQDKEGIPPDQQR.L <a href="#">753</a>
<a href="#">921</a>	894.4671	1786.9196	1786.9200	-0.20	0	82	3.7e-007	1	K.TITLEVEPSDTIENVK.A

Proteins matching the same set of peptides:

<a href="#">IPI00470152</a>	Mass: 18282	Score: 158	Queries matched: 4
Tax_Id=10090	Gene_Symbol=Rps27a	Ubiquitin-40S ribosomal protein S27a	
<a href="#">IPI00895319</a>	Mass: 22277	Score: 158	Queries matched: 4
Tax_Id=10090	Gene_Symbol=2810422J05Rik	22 kDa protein	
<a href="#">IPI00895479</a>	Mass: 27181	Score: 158	Queries matched: 4
Tax_Id=10090	Gene_Symbol=2810422J05Rik	27 kDa protein	
<a href="#">IPI00918763</a>	Mass: 11021	Score: 158	Queries matched: 4
Tax_Id=10090	Gene_Symbol=Uba52	Ubiquitin subunit 1	
<a href="#">IPI00750889</a>	Mass: 22822	Score: 158	Queries matched: 4
Tax_Id=10090	Gene_Symbol=Ubc	Ubc protein	
<a href="#">IPI00923013</a>	Mass: 26603	Score: 158	Queries matched: 4
Tax_Id=10090	Gene_Symbol=Ubb	Ubiquitin B	
<a href="#">IPI00923037</a>	Mass: 22578	Score: 158	Queries matched: 4
Tax_Id=10090	Gene_Symbol=Ubc	Putative uncharacterized protein	
<a href="#">IPI00139518</a>	Mass: 34348	Score: 158	Queries matched: 4
Tax_Id=10090	Gene_Symbol=Ubb	Polyubiquitin-B	
<a href="#">IPI00969323</a>	Mass: 82603	Score: 158	Queries matched: 4
Tax_Id=10090	Gene_Symbol=Ubc	Polyubiquitin-C	
<a href="#">IPI00755916</a>	Mass: 82614	Score: 158	Queries matched: 4
Tax_Id=10090	Gene_Symbol=Ubc	ubiquitin	

24. [IPI00323357](#) Mass: 71055 Score: 136 Queries matched: 7 emPAI: 0.09

Tax\_Id=10090 Gene\_Symbol=Hspa8 Heat shock cognate 71 kDa protein

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">464</a>	590.8160	1179.6174	1179.6135	3.31	1	25	0.25	1	K.VQVEYKGETK.S
<a href="#">520</a>	614.8207	1227.6268	1227.6207	4.97	0	14		3	2 K.VELIANDQGNR.T
<a href="#">612</a>	652.3111	1302.6076	1302.5914	12.5	0	5		16	2 K.NSLESYAFNMK.A
<a href="#">733</a>	744.3572	1486.6998	1486.6940	3.93	0	69	7.6e-006	1	R.TTPSYVAFTDTER.L <a href="#">734</a>
<a href="#">843</a>	808.9025	1615.7904	1615.7804	6.25	0	3		35	2 K.SFYPEEVSSMVLTK.M
<a href="#">987</a>	991.5050	1980.9954	1980.9905	2.49	0	59	6.2e-005	1	K.TVTNAVTVPAYFNDSQR.Q

25. [IPI00348094](#) Mass: 51093 Score: 133 Queries matched: 8 emPAI: 0.21

Tax\_Id=10090 Gene\_Symbol=Tubbl1 Tubulin, beta 1

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">339</a>	539.2715	1076.5284	1076.5250	3.17	1	35	0.026	1	K.IREEYPDR.I <a href="#">338</a> <a href="#">340</a>
<a href="#">409</a>	572.3189	1142.6232	1142.6270	-3.31	0	(64)	3.3e-005	1	K.LAVNMVFPFR.L <a href="#">410</a>
<a href="#">431</a>	580.3211	1158.6276	1158.6219	4.92	0	83	4.5e-007	1	K.LAVNMVFPFR.L
<a href="#">632</a>	660.3535	1318.6924	1318.6955	-2.31	0	11		6.1	2 R.ILNSFSVMPSPK.V <a href="#">633</a>

26. [IPI00608020](#) Mass: 20817 Score: 116 Queries matched: 2 emPAI: 0.35

Tax\_Id=10090 Gene\_Symbol=Ftl1 ferritin light chain 1

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">730</a>	740.8624	1479.7102	1479.6954	10.1	0	87	1.2e-007	1	R.QNYSTEVEAAVNR.L
<a href="#">1071</a>	820.6419	3278.5385	3278.5587	-6.17	1	62	1.9e-005	1	R.ALFQDVQKPSQDEWGKTQEAMEALAMEK.N

Proteins matching the same set of peptides:

<a href="#">IPI00762203</a>	Mass: 20847	Score: 116	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Ftl1	Ferritin light chain 1	

27. [IPI00136372](#) Mass: 70163 Score: 94 Queries matched: 5 emPAI: 0.10

Tax\_Id=10090 Gene\_Symbol=Synl1 Isoform Ib of Synapsin-1

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">238</a>	450.2198	898.4250	898.4621	-41.20	0	6		11	2 R.QAGAPQATR.Q
<a href="#">470</a>	594.3597	1186.7048	1186.7074	-2.14	0	24	0.15	1	R.SLKPDFVLIR.Q
<a href="#">639</a>	663.8334	1325.6522	1325.6503	1.46	0	57	0.00014	1	K.TYATAEPPIDAK.Y <a href="#">640</a>
<a href="#">897</a>	862.9027	1723.7908	1723.7869	2.29	0	47	0.00094	1	K.TNTGSAMLEQIAMSDR.Y

Proteins matching the same set of peptides:

<a href="#">IPI00649467</a>	Mass: 71610	Score: 94	Queries matched: 5
Tax_Id=10090	Gene_Symbol=Synl1	Isoform 3 of Synapsin-1	
<a href="#">IPI00649886</a>	Mass: 74223	Score: 94	Queries matched: 5
Tax_Id=10090	Gene_Symbol=Synl1	Isoform Ia of Synapsin-1	

28. [IPI00555023](#) Mass: 23765 Score: 91 Queries matched: 2 emPAI: 0.14

Tax\_Id=10090 Gene\_Symbol=Gstpl1 Glutathione S-transferase P 1

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">662</a>	676.3783	1350.7420	1350.7336	6.25	0	70	5.6e-006	1	M.PPYTIVYFPVR.G <a href="#">661</a>

29. [IPI00114375](#) Mass: 62638 Score: 88 Queries matched: 1 emPAI: 0.05

Tax\_Id=10090 Gene\_Symbol=Dpysl2 Dihydropyrimidinase-related protein 2

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">967</a>	956.0165	1910.0184	1910.0149	1.85	0	88	7.4e-008	1	R.FQLTDSQIYEVLSVIR.D

30. [IPI00652902](#) Mass: 41033 Score: 88 Queries matched: 2 emPAI: 0.17  
 Tax\_Id=10090 Gene\_Symbol=Gnai2 Putative uncharacterized protein

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">329</a>	529.3133	1056.6120	1056.6179	-5.53	0	72	4.1e-006	1	K.LLLLGAGESGK.S
<a href="#">902</a>	868.9853	1735.9560	1735.9542	1.05	0	50	0.00034	1	R.AVVYSNTIQSIMAIVK.A

31. [IPI00114642](#) Mass: 13928 Score: 77 Queries matched: 2 emPAI: 0.25  
 Tax\_Id=10090 Gene\_Symbol=Hist1h2bn;Hist1h2bl;Hist1h2bj;Hist1h2bf Histone H2B type 1-F/J/L

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">903</a>	872.4119	1742.8092	1742.8120	-1.58	0	75	1.9e-006	1	K.AMGIMNSFVNDIFER.I <a href="#">904</a>

Proteins matching the same set of peptides:

<a href="#">IPI00124518</a>	Mass: 13359	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist2h2bb	Hist2h2bb	protein
<a href="#">IPI00134534</a>	Mass: 14879	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Gml1277;Gml13646	Histone H2B	
<a href="#">IPI00187543</a>	Mass: 13985	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist2h2be	Histone H2B type 2-E	
<a href="#">IPI00227930</a>	Mass: 13912	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bh	Histone H2B type 1-H	
<a href="#">IPI00229539</a>	Mass: 17248	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist3h2bb-ps	histone H2B type 3-B	
<a href="#">IPI00265768</a>	Mass: 13912	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bk	Histone H2B type 1-K	
<a href="#">IPI00282266</a>	Mass: 13898	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bg;Hist1h2be;Gm9998;Hist1h2bc	Histone H2B type 1-C/E/G	
<a href="#">IPI00282269</a>	Mass: 13928	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bm	Histone H2B type 1-M	
<a href="#">IPI00348270</a>	Mass: 13912	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist2h2bb	Histone H2B type 2-B	
<a href="#">IPI00453744</a>	Mass: 15968	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bp	16 kDa protein	
<a href="#">IPI00461514</a>	Mass: 14987	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Gml13646	Histone H2B	
<a href="#">IPI00553774</a>	Mass: 13986	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist3h2ba	Histone H2B type 3-A	
<a href="#">IPI00554853</a>	Mass: 13944	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bb	Histone H2B type 1-B	
<a href="#">IPI00648991</a>	Mass: 13984	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bp	Isoform 1 of Histone H2B type 1-P	
<a href="#">IPI00761713</a>	Mass: 15555	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bp	Isoform 2 of Histone H2B type 1-P	
<a href="#">IPI00874492</a>	Mass: 14746	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bm	15 kDa protein	
<a href="#">IPI00874654</a>	Mass: 14787	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bg;Hist1h2be;Gm9998;Hist1h2bc	Histone H2B	
<a href="#">IPI00874970</a>	Mass: 14951	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bn;Hist1h2bl;Hist1h2bj;Hist1h2bf	Histone H2B	
<a href="#">IPI00875277</a>	Mass: 14242	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bk	14 kDa protein	
<a href="#">IPI00875523</a>	Mass: 14900	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bh	Histone H2B	
<a href="#">IPI00875901</a>	Mass: 14806	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bk	Histone H2B	
<a href="#">IPI00876167</a>	Mass: 14126	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bn;Hist1h2bl;Hist1h2bj;Hist1h2bf	14 kDa protein	
<a href="#">IPI00876432</a>	Mass: 14148	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bn;Hist1h2bl;Hist1h2bj;Hist1h2bf	Histone H2B	
<a href="#">IPI00876549</a>	Mass: 14902	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=Hist1h2bn;Hist1h2bl;Hist1h2bj;Hist1h2bf	Histone H2B	
<a href="#">IPI00876550</a>	Mass: 14812	Score: 77	Queries matched: 2
Tax_Id=10090	Gene_Symbol=-	15 kDa protein	

32. [IPI00118569](#) Mass: 44369 Score: 72 Queries matched: 1 emPAI: 0.07  
 Tax\_Id=10090 Gene\_Symbol=Gnai3 Guanine nucleotide-binding protein subunit alpha-13

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">329</a>	529.3133	1056.6120	1056.6179	-5.53	0	72	4.1e-006	1	K.LLLLGAGESGK.S

Proteins matching the same set of peptides:

<a href="#">IPI00230191</a>	Mass: 44238	Score: 72	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Gnai2	Guanine nucleotide-binding protein subunit alpha-12	
<a href="#">IPI00649388</a>	Mass: 20095	Score: 72	Queries matched: 1
Tax_Id=10090	Gene_Symbol=Gnai3	Putative uncharacterized protein	

33. [IPI00310091](#) Mass: 66079 Score: 72 Queries matched: 1 emPAI: 0.05  
 Tax\_Id=10090 Gene\_Symbol=Ppp2r1a Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">1008</a>	732.0782	2193.2128	2193.2256	-5.86	0	72	1.5e-006	1	K.IGPILDNSTLQSEVKPILEK.L

34. [IPI00130280](#) Mass: 59830 Score: 72 Queries matched: 1 emPAI: 0.05  
 Tax\_Id=10090 Gene\_Symbol=Atp5a1 ATP synthase subunit alpha, mitochondrial

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
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[1023](#) 1169.5824 2337.1502 2337.1601 -4.21 0 72 2.9e-006 1 R.EVAFAQFGSDLDAAATQQLLSR.G

Proteins matching the same set of peptides:

[IPI00857439](#) Mass: 54675 Score: 72 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Atp5a1 ATP synthase subunit alpha

35. [IPI00625729](#) Mass: 66079 Score: 70 Queries matched: 3 emPAI: 0.05  
Tax\_Id=10090 Gene\_Symbol=Krt1 Keratin, type II cytoskeletal 1  
Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[694](#) 697.3569 1392.6992 1392.7249 -18.40 1 0 75 8 R.TNAENEFVTIKK.D  
[728](#) 738.4001 1474.7856 1474.7780 5.20 0 70 6.4e-006 1 R.FLEQQNQVLQTK.W  
[880](#) 849.4527 1696.8908 1696.8342 33.4 1 3 28 4 K.DVDSAYMTKVELQAK.A

36. [IPI00462140](#) Mass: 61379 Score: 70 Queries matched: 2 emPAI: 0.05  
Tax\_Id=10090 Gene\_Symbol=Krt77 Keratin, type II cytoskeletal 1b  
Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[681](#) 689.3424 1376.6702 1376.7300 -43.38 1 1 65 9 R.TNAENDFVVLKK.D  
[728](#) 738.4001 1474.7856 1474.7780 5.20 0 70 6.4e-006 1 R.FLEQQNQVLQTK.W

37. [IPI00408378](#) Mass: 28046 Score: 69 Queries matched: 1 emPAI: 0.12  
Tax\_Id=10090 Gene\_Symbol=Ywhaq Isoform 1 of 14-3-3 protein theta  
Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[755](#) 766.8602 1531.7058 1531.7114 -3.62 0 69 7.3e-006 1 K.AVTEQQAEALSNEER.N

Proteins matching the same set of peptides:

[IPI00656269](#) Mass: 28025 Score: 69 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Ywhaq Isoform 2 of 14-3-3 protein theta  
[IPI00754545](#) Mass: 35930 Score: 69 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Gm2423 similar to Ywhaq protein  
[IPI00853924](#) Mass: 34613 Score: 69 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Ywhaq 34 kDa protein

38. [IPI00119067](#) Mass: 23731 Score: 68 Queries matched: 1 emPAI: 0.14  
Tax\_Id=10090 Gene\_Symbol=Tppp Tubulin polymerization-promoting protein  
Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[964](#) 948.9969 1895.9792 1895.9516 14.6 0 68 1.1e-005 1 R.TITFEQFQEALEELAK.K

39. [IPI00323571](#) Mass: 35901 Score: 67 Queries matched: 5 emPAI: 0.30  
Tax\_Id=10090 Gene\_Symbol=Apoe Apolipoprotein E  
Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[448](#) 585.8325 1169.6504 1169.6516 -1.02 1 43 0.0027 1 R.LGKVEVQAQAR.L [447](#)  
[520](#) 614.8207 1227.6268 1227.6320 -4.17 1 45 0.0025 1 R.GRLLEEVEVGNQAR.D  
[681](#) 689.3424 1376.6702 1376.6718 -1.12 1 36 0.021 1 R.SKMEEQTQIIR.L  
[749](#) 755.9105 1509.8064 1509.8012 3.50 1 6 14 1 R.TANLGAQAQPLRDR.A

40. [IPI00272878](#) Mass: 98140 Score: 66 Queries matched: 2 emPAI: 0.03  
Tax\_Id=10090 Gene\_Symbol=Dnm1 Isoform 1 of Dynamin-1  
Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[328](#) 529.2714 1056.5282 1056.5200 7.82 0 6 15 1 R.SPTSSPTPQR.R  
[657](#) 672.8652 1343.7158 1343.7045 8.46 0 66 1.4e-005 1 K.TSGNQDEILVIR.K

Proteins matching the same set of peptides:

[IPI00331293](#) Mass: 97762 Score: 66 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Dnm1 Isoform 4 of Dynamin-1  
[IPI00465648](#) Mass: 96209 Score: 66 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Dnm1 Isoform 3 of Dynamin-1  
[IPI00753037](#) Mass: 96395 Score: 66 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Dnm1 Isoform 5 of Dynamin-1  
[IPI00890133](#) Mass: 97954 Score: 66 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Dnm1 Uncharacterized protein

41. [IPI00230145](#) Mass: 21224 Score: 62 Queries matched: 3 emPAI: 0.16  
Tax\_Id=10090 Gene\_Symbol=Fth1 Ferritin heavy chain  
Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[422](#) 577.3004 1152.5862 1152.5887 -2.15 0 11 6 1 K.ELGDHVTNLR.K  
[571](#) 634.3499 1266.6852 1266.6932 -6.26 0 59 7.2e-005 1 K.SVNQSLLELHK.L [572](#)

42. [IPI00123313](#) Mass: 118931 Score: 62 Queries matched: 1 emPAI: 0.03  
Tax\_Id=10090 Gene\_Symbol=Ubal Ubiquitin-like modifier-activating enzyme 1  
Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[962](#) 943.0261 1884.0376 1884.0357 1.06 0 62 2.1e-005 1 R.AAVASLLQSVQVPEFTPK.S

43. [IPI00131366](#) Mass: 60627 Score: 61 Queries matched: 4 emPAI: 0.05  
Tax\_Id=10090 Gene\_Symbol=Krt6b Keratin, type II cytoskeletal 6B  
Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[610](#) 651.8621 1301.7096 1301.7078 1.40 0 61 4.7e-005 1 R.SLDLDSIIAEVK.A  
[705](#) 717.8544 1433.6942 1433.7375 -30.17 1 0 57 3 R.GYSASSARVPLNLR.S  
[880](#) 849.4527 1696.8908 1696.8342 33.4 1 3 28 4 K.DVDAAYMTKVELQAK.A [879](#)

Proteins matching the same set of peptides:

[IPI00785403](#) Mass: 59832 Score: 61 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Krt6b keratin, type II cytoskeletal 6B

44. [IPI00462072](#) Mass: 47453 Score: 60 Queries matched: 2 emPAI: 0.07  
 Tax\_Id=10090 Gene\_Symbol=Eno1;Gm5506 Alpha-enolase  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[706](#) 720.3782 1438.7418 1438.7344 5.19 0 60 7.3e-005 1 R.YITPDQLADLYK.S  
[1062](#) 990.7887 2969.3443 2969.3508 -2.21 0 14 0.96 1 K.SFVQNYPVVSIEDPFDQDDWGAWQK.F

Proteins matching the same set of peptides:

[IPI00648821](#) Mass: 40099 Score: 60 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Eno1 Enolase

45. [IPI00266188](#) Mass: 18812 Score: 58 Queries matched: 2 emPAI: 0.18  
 Tax\_Id=10090 Gene\_Symbol=Cfl12 Cofilin-2  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[651](#) 669.3212 1336.6278 1336.6187 6.87 0 54 0.00022 1 R.YALYDATYETK.E [650](#)

Proteins matching the same set of peptides:

[IPI00407543](#) Mass: 25293 Score: 58 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Cfl11 Putative uncharacterized protein  
[IPI00848816](#) Mass: 18731 Score: 58 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=LOC100048522 similar to Cofilin-1  
[IPI00890117](#) Mass: 18776 Score: 58 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Cfl11 Cofilin-1

46. [IPI00230680](#) Mass: 115702 Score: 57 Queries matched: 2 emPAI: 0.03  
 Tax\_Id=10090 Gene\_Symbol=Atp4a Potassium-transporting ATPase alpha chain 1  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[327](#) 528.2854 1054.5562 1054.5520 4.07 1 18 1.1 1 K.GGDRVPADIR.I  
[685](#) 691.3808 1380.7470 1380.7435 2.55 0 57 0.00012 1 R.VIMVTGDHPITAK.A

47. [IPI00268145](#) Mass: 115394 Score: 57 Queries matched: 3 emPAI: 0.03  
 Tax\_Id=10090 Gene\_Symbol=Atp12a Potassium-transporting ATPase alpha chain 2  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[447](#) 585.8287 1169.6428 1169.6516 -7.52 1 11 4.9 2 R.NIAVEQVKNR.E [448](#)  
[685](#) 691.3808 1380.7470 1380.7435 2.55 0 57 0.00012 1 K.VIMVTGDHPITAK.A

Proteins matching the same set of peptides:

[IPI00877215](#) Mass: 115395 Score: 57 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Atp12a potassium-transporting ATPase alpha chain 2

48. [IPI00222632](#) Mass: 21791 Score: 52 Queries matched: 1 emPAI: 0.15  
 Tax\_Id=10090 Gene\_Symbol=Rab31 ras-related protein Rab-31  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[839](#) 802.4271 1602.8396 1602.8365 1.94 0 52 0.00043 1 K.NAINIEELFQGISR.Q

49. [IPI00755181](#) Mass: 57178 Score: 49 Queries matched: 1 emPAI: 0.06  
 Tax\_Id=10090 Gene\_Symbol=Krt10 keratin, type I cytoskeletal 10  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[683](#) 691.3288 1380.6430 1380.6408 1.60 0 49 0.00076 1 R.ALEESNYELEGK.I

Proteins matching the same set of peptides:

[IPI00798492](#) Mass: 57906 Score: 49 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Krt10 Isoform 1 of Keratin, type I cytoskeletal 10  
[IPI00828744](#) Mass: 57197 Score: 49 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Krt10 Isoform 2 of Keratin, type I cytoskeletal 10

50. [IPI00134492](#) Mass: 52818 Score: 47 Queries matched: 2 emPAI: 0.13  
 Tax\_Id=10090 Gene\_Symbol=Syn2 Isoform IIb of Synapsin-2  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[726](#) 737.4225 1472.8304 1472.8313 -0.57 0 29 0.051 1 R.EMLTLTPFPVVK.I  
[897](#) 862.9027 1723.7908 1723.7869 2.29 0 47 0.00094 1 K.TNTGSAMLEQIAMSADR.Y

Proteins matching the same set of peptides:

[IPI00469548](#) Mass: 63618 Score: 47 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Syn2 Isoform IIa of Synapsin-2

51. [IPI00415402](#) Mass: 67925 Score: 47 Queries matched: 1 emPAI: 0.05  
 Tax\_Id=10090 Gene\_Symbol=Stxbp1 Isoform 1 of Syntaxin-binding protein 1  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[516](#) 612.8163 1223.6180 1223.6146 2.82 0 47 0.0014 1 R.ISEQTYQLSR.W

Proteins matching the same set of peptides:

[IPI00415403](#) Mass: 69091 Score: 47 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Stxbp1 Isoform 2 of Syntaxin-binding protein 1  
[IPI00756061](#) Mass: 49457 Score: 47 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Stxbp1 49 kDa protein

52. [IPI00656325](#) Mass: 83131 Score: 45 Queries matched: 2 emPAI: 0.04  
 Tax\_Id=10090 Gene\_Symbol=Nsf Vesicle-fusing ATPase  
 Query Observed Mr(expt) Mr(calc) ppm Miss Score Expect Rank Peptide  
[712](#) 729.3977 1456.7808 1456.7773 2.42 0 45 0.0018 1 R.VLDDGELLVQQT.K.N [711](#)

Proteins matching the same set of peptides:

[IPI00876255](#) Mass: 83174 Score: 45 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Nsf 83 kDa protein

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53. [IPI00135106](#) Mass: 19584 Score: 41 Queries matched: 4 emPAI: 0.37  
Tax\_Id=10090 Gene\_Symbol=Mobp Isoform 1 of Myelin-associated oligodendrocyte basic protein

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">377</a>	557.8031	1113.5916	1113.5891	2.32	1	33	0.041	1	<a href="#">R.SSPLRGPGTSR.G 378</a>
<a href="#">433</a>	580.8276	1159.6406	1159.6462	-4.78	0	38	0.011	1	<a href="#">K.HQPAASPVVVR.A 434</a>

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



## Mascot Search Results

**User** : Dominic  
**Email** : dominic.kurian@bbsrc.ac.uk  
**Search title** : IPI Mouse\_15-02-2010  
**MS data file** : D:\Peaklist\Dominic Kurian\QtofDK20010803 GATC P 0010881.pk1  
**Database** : IPI\_mouse MOUSE\_v3\_79 (54943 sequences; 24917557 residues)  
**Timestamp** : 15 Feb 2011 at 15:10:35 GMT  
**Protein hits** :

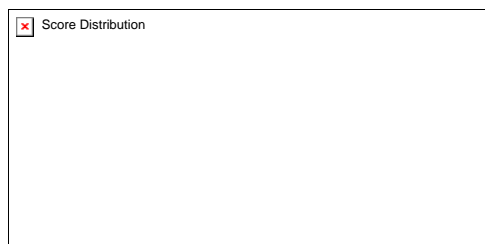
- [IPI00420725](#) Tax\_Id=10090 Gene\_Symbol=Camk2a Uncharacterized protein
- [IPI00474502](#) Tax\_Id=10090 Gene\_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase type II subunit beta
- [IPI00112584](#) Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit
- [IPI00124695](#) Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit
- [IPI00109073](#) Tax\_Id=10090 Gene\_Symbol=Tubb4 Tubulin beta-4 chain
- [IPI00115546](#) Tax\_Id=10090 Gene\_Symbol=Gnao1 Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) subunit alpha
- [IPI00323571](#) Tax\_Id=10090 Gene\_Symbol=ApoE Apolipoprotein E
- [IPI00112251](#) Tax\_Id=10090 Gene\_Symbol=Tubb3 Tubulin beta-3 chain
- [IPI00110850](#) Tax\_Id=10090 Gene\_Symbol=Actb Actin, cytoplasmic 1
- [IPI00109061](#) Tax\_Id=10090 Gene\_Symbol=Tubb2b Tubulin beta-2B chain
- [IPI00122048](#) Tax\_Id=10090 Gene\_Symbol=Atpla3 Sodium/potassium-transporting ATPase subunit alpha-3
- [IPI00138892](#) Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin-60S ribosomal protein L40
- [IPI00120793](#) Tax\_Id=10090 Gene\_Symbol=Prnp Major prion protein
- [IPI00122928](#) Tax\_Id=10090 Gene\_Symbol=Tubb6 Tubulin beta-6 chain
- [IPI00225062](#) Tax\_Id=10090 Gene\_Symbol=Srrm2 Isoform 3 of Serine/arginine repetitive matrix protein 2
- [IPI00221528](#) Tax\_Id=10090 Gene\_Symbol=Actb12 Beta-actin-like protein 2
- [IPI00404590](#) Tax\_Id=10090 Gene\_Symbol=Hlf0 Putative uncharacterized protein
- [IPI00323357](#) Tax\_Id=10090 Gene\_Symbol=Hspa8 Heat shock cognate 71 kDa protein
- [IPI00469012](#) Tax\_Id=10090 Gene\_Symbol=Tbcl10b TBC1 domain family member 10B
- [IPI00223714](#) Tax\_Id=10090 Gene\_Symbol=Hist1hle Histone H1.4
- [IPI00656325](#) Tax\_Id=10090 Gene\_Symbol=Nsf Vesicle-fusing ATPase
- [IPI00377681](#) Tax\_Id=10090 Gene\_Symbol=N28178 Isoform 2 of Protein KIAA1045
- [IPI00122069](#) Tax\_Id=10090 Gene\_Symbol=Prkcc Protein kinase C gamma type
- [IPI00136703](#) Tax\_Id=10090 Gene\_Symbol=Ckb Creatine kinase B-type
- [IPI00347110](#) Tax\_Id=10090 Gene\_Symbol=Krt73 Keratin, type II cytoskeletal 73
- [IPI00403219](#) Tax\_Id=10090 Gene\_Symbol=Gml4496 Novel vomeronasal 2, receptor family protein
- [IPI00119853](#) Tax\_Id=10090 Gene\_Symbol=Gnas Isoform Gnas-1 of Guanine nucleotide-binding protein G(s) subunit alpha is
- [IPI00347770](#) Tax\_Id=10090 Gene\_Symbol=Gnat3 Guanine nucleotide-binding protein G(t) subunit alpha-3
- [IPI00118569](#) Tax\_Id=10090 Gene\_Symbol=Gna13 Guanine nucleotide-binding protein subunit alpha-13
- [IPI00123176](#) Tax\_Id=10090 Gene\_Symbol=Gm6316 Glycerinaldehyde-3-phosphate dehydrogenase
- [IPI00348094](#) Tax\_Id=10090 Gene\_Symbol=Tubb1 Tubulin, beta 1
- [IPI00116074](#) Tax\_Id=10090 Gene\_Symbol=Aco2 Aconitate hydratase, mitochondrial
- [IPI00119063](#) Tax\_Id=10090 Gene\_Symbol=Lrp1 Prolow-density lipoprotein receptor-related protein 1

### IPI\_mouse [Decoy](#) False discovery rate

Peptide matches above identity threshold	161	0	0.00 %
Peptide matches above homology or identity threshold	181	0	0.00 %

### 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  $> 37$  indicate identity or extensive homology ( $p < 0.01$ ).  
 Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



### Peptide Summary Report

Format As  [Help](#)  
 Significance threshold  $p < 0.01$  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. [IPI00420725](#) Mass: 55882 Score: 1434 Queries matched: 119 emPAI: 0.99  
 Tax\_Id=10090 Gene\_Symbol=Camk2a Uncharacterized 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"/> <a href="#">33</a>	602.3627	601.3554	601.3435	19.8	0	20	1.6	1	K.DLINK.M
<input checked="" type="checkbox"/> <a href="#">81</a>	432.7283	863.4420	863.4501	-9.35	0	(7)	20	1	R.SGAPSVLPH.-
<input checked="" type="checkbox"/> <a href="#">82</a>	432.7314	863.4482	863.4501	-2.17	0	(12)	6.1	1	R.SGAPSVLPH.-
<input checked="" type="checkbox"/> <a href="#">83</a>	432.7319	863.4492	863.4501	-1.01	0	20	0.94	1	R.SGAPSVLPH.-
<input checked="" type="checkbox"/> <a href="#">118</a>	452.2494	902.4842	902.4895	-5.84	0	(13)	5.2	1	K.MLTINPSK.R

119	452.2506	902.4866	902.4895	-3.18	0	15	3.5	1	K.MLTINPSK.R
125	461.2198	920.4250	920.4199	5.57	0	43	0.0033	1	R.TAQSEETR.V
126	463.2444	924.4742	924.4777	-3.74	1	11	5.1	1	R.DHQKLER.E
197	525.2842	1048.5538	1048.5553	-1.37	0	(33)	0.046	1	K.VLAGQEYAAK.I
198	525.2860	1048.5574	1048.5553	2.06	0	(53)	0.0004	1	K.VLAGQEYAAK.I
199	525.2860	1048.5574	1048.5553	2.06	0	55	0.00028	1	K.VLAGQEYAAK.I
200	525.2863	1048.5580	1048.5553	2.64	0	(41)	0.0067	1	K.VLAGQEYAAK.I
201	525.2864	1048.5582	1048.5553	2.83	0	(48)	0.0013	1	K.VLAGQEYAAK.I
202	525.2868	1048.5590	1048.5553	3.59	0	(51)	0.00065	1	K.VLAGQEYAAK.I
205	530.2988	1058.5830	1058.5906	-7.15	1	(10)	9.3	2	K.MLTINPSKR.I
206	530.2996	1058.5846	1058.5906	-5.64	1	(11)	6.5	1	K.MLTINPSKR.I
207	530.3001	1058.5856	1058.5906	-4.70	1	41	0.0064	1	K.MLTINPSKR.I
208	530.3005	1058.5864	1058.5906	-3.94	1	(40)	0.0086	1	K.MLTINPSKR.I
209	530.3017	1058.5888	1058.5906	-1.68	1	(31)	0.054	1	K.MLTINPSKR.I
210	530.3018	1058.5890	1058.5906	-1.49	1	(14)	3.1	1	K.MLTINPSKR.I
211	530.3021	1058.5896	1058.5906	-0.92	1	(34)	0.028	1	K.MLTINPSKR.I
212	530.3030	1058.5914	1058.5906	0.78	1	(36)	0.017	1	K.MLTINPSKR.I
213	530.3034	1058.5922	1058.5906	1.54	1	(29)	0.09	1	K.MLTINPSKR.I
214	530.3041	1058.5936	1058.5906	2.86	1	(34)	0.031	1	K.MLTINPSKR.I
215	530.3043	1058.5940	1058.5906	3.24	1	(36)	0.017	1	K.MLTINPSKR.I
216	530.3059	1058.5972	1058.5906	6.26	1	(6)	19	1	K.MLTINPSKR.I
217	530.3068	1058.5990	1058.5906	7.96	1	(5)	23	2	K.MLTINPSKR.I
220	530.3162	1058.6178	1058.5906	25.7	1	(7)	9.3	2	K.MLTINPSKR.I
280	574.3269	1146.6392	1146.6431	-3.33	0	(48)	0.00085	1	K.GALLTTLATR.N
281	574.3270	1146.6394	1146.6431	-3.16	0	54	0.00024	1	K.GALLTTLATR.N
282	574.3282	1146.6418	1146.6431	-1.06	0	(46)	0.0015	1	K.GALLTTLATR.N
334	631.3043	1260.5940	1260.5927	1.04	0	(33)	0.032	1	R.FYPENLWSR.N
335	631.3046	1260.5946	1260.5927	1.51	0	(54)	0.00029	1	R.FYPENLWSR.N
336	631.3046	1260.5946	1260.5927	1.51	0	(54)	0.00029	1	R.FYPENLWSR.N
337	631.3046	1260.5946	1260.5927	1.51	0	(38)	0.0095	1	R.FYPENLWSR.N
338	631.3051	1260.5956	1260.5927	2.30	0	58	0.00011	1	R.FYPENLWSR.N
339	631.3056	1260.5966	1260.5927	3.10	0	(54)	0.00026	1	R.FYPENLWSR.N
340	631.3057	1260.5968	1260.5927	3.26	0	(54)	0.00029	1	R.FYPENLWSR.N
341	631.3057	1260.5968	1260.5927	3.26	0	(38)	0.012	1	R.FYPENLWSR.N
342	631.3059	1260.5972	1260.5927	3.57	0	(34)	0.025	1	R.FYPENLWSR.N
343	631.3104	1260.6062	1260.5927	10.7	0	(53)	0.00038	1	R.FYPENLWSR.N
344	631.3109	1260.6072	1260.5927	11.5	0	(54)	0.00033	1	R.FYPENLWSR.N
357	652.3538	1302.6930	1302.6932	-0.11	0	(72)	4.3e-006	1	R.ITQYLDAGGIPR.T
358	652.3549	1302.6952	1302.6932	1.58	0	81	5.8e-007	1	R.ITQYLDAGGIPR.T
359	652.3557	1302.6968	1302.6932	2.81	0	(79)	9.7e-007	1	R.ITQYLDAGGIPR.T
360	652.3559	1302.6972	1302.6932	3.11	0	(59)	9.2e-005	1	R.ITQYLDAGGIPR.T
361	652.3559	1302.6972	1302.6932	3.11	0	(55)	0.00023	1	R.ITQYLDAGGIPR.T
362	652.3560	1302.6974	1302.6932	3.27	0	(66)	1.6e-005	1	R.ITQYLDAGGIPR.T
370	670.8879	1339.7612	1339.7711	-7.33	0	(37)	0.0084	1	R.DLKPENLLASK.L
371	670.8884	1339.7622	1339.7711	-6.59	0	(26)	0.11	1	R.DLKPENLLASK.L
372	670.8900	1339.7654	1339.7711	-4.20	0	(26)	0.1	1	R.DLKPENLLASK.L
373	670.8904	1339.7662	1339.7711	-3.60	0	(41)	0.0029	1	R.DLKPENLLASK.L
374	670.8911	1339.7676	1339.7711	-2.56	0	67	7.6e-006	1	R.DLKPENLLASK.L
375	670.8915	1339.7684	1339.7711	-1.96	0	(39)	0.0044	1	R.DLKPENLLASK.L
376	670.8923	1339.7700	1339.7711	-0.76	0	(27)	0.069	1	R.DLKPENLLASK.L
377	670.8923	1339.7700	1339.7711	-0.76	0	(34)	0.015	1	R.DLKPENLLASK.L
378	670.8926	1339.7706	1339.7711	-0.32	0	(45)	0.0012	1	R.DLKPENLLASK.L
379	670.8926	1339.7706	1339.7711	-0.32	0	(39)	0.0046	1	R.DLKPENLLASK.L
380	670.8930	1339.7714	1339.7711	0.28	0	(36)	0.01	1	R.DLKPENLLASK.L
381	670.8934	1339.7722	1339.7711	0.88	0	(35)	0.011	1	R.DLKPENLLASK.L
382	670.8936	1339.7726	1339.7711	1.18	0	(32)	0.026	1	R.DLKPENLLASK.L
383	670.8938	1339.7730	1339.7711	1.47	0	(28)	0.054	1	R.DLKPENLLASK.L
384	670.8939	1339.7732	1339.7711	1.62	0	(47)	0.00072	1	R.DLKPENLLASK.L
385	670.8940	1339.7734	1339.7711	1.77	0	(1)	30	9	R.DLKPENLLASK.L
386	670.8944	1339.7742	1339.7711	2.37	0	(32)	0.02	1	R.DLKPENLLASK.L
387	670.8953	1339.7760	1339.7711	3.71	0	(47)	0.00064	1	R.DLKPENLLASK.L
388	670.8953	1339.7760	1339.7711	3.71	0	(47)	0.00077	1	R.DLKPENLLASK.L
389	670.8954	1339.7762	1339.7711	3.86	0	(21)	0.31	1	R.DLKPENLLASK.L
390	670.8956	1339.7766	1339.7711	4.16	0	(38)	0.006	1	R.DLKPENLLASK.L
500	816.8917	1631.7688	1631.7719	-1.86	0	(17)	1.2	1	R.FTEEYQLFEELGK.G
501	816.8925	1631.7704	1631.7719	-0.88	0	(49)	0.00075	1	R.FTEEYQLFEELGK.G
503	816.8930	1631.7714	1631.7719	-0.27	0	(52)	0.00039	1	R.FTEEYQLFEELGK.G
504	816.8939	1631.7732	1631.7719	0.84	0	(63)	2.9e-005	1	R.FTEEYQLFEELGK.G
505	816.8942	1631.7738	1631.7719	1.21	0	(36)	0.015	1	R.FTEEYQLFEELGK.G
506	816.8947	1631.7748	1631.7719	1.82	0	(18)	1	1	R.FTEEYQLFEELGK.G
507	816.8947	1631.7748	1631.7719	1.82	0	(60)	6.1e-005	1	R.FTEEYQLFEELGK.G
508	816.8950	1631.7754	1631.7719	2.19	0	(42)	0.0042	1	R.FTEEYQLFEELGK.G
509	816.8950	1631.7754	1631.7719	2.19	0	(59)	8.7e-005	1	R.FTEEYQLFEELGK.G
510	816.8951	1631.7756	1631.7719	2.31	0	(61)	4.6e-005	1	R.FTEEYQLFEELGK.G
511	816.8951	1631.7756	1631.7719	2.31	0	(30)	0.065	1	R.FTEEYQLFEELGK.G
512	816.8953	1631.7760	1631.7719	2.55	0	67	1.2e-005	1	R.FTEEYQLFEELGK.G
513	816.8953	1631.7760	1631.7719	2.55	0	(53)	0.0003	1	R.FTEEYQLFEELGK.G
515	816.8961	1631.7776	1631.7719	3.53	0	(44)	0.0026	1	R.FTEEYQLFEELGK.G
516	816.8964	1631.7782	1631.7719	3.90	0	(30)	0.062	1	R.FTEEYQLFEELGK.G
517	816.8969	1631.7792	1631.7719	4.51	0	(42)	0.0043	1	R.FTEEYQLFEELGK.G
518	816.8969	1631.7792	1631.7719	4.51	0	(48)	0.0011	1	R.FTEEYQLFEELGK.G



<input checked="" type="checkbox"/>	<a href="#">520</a>	816.8972	1631.7798	1631.7719	4.88	0	(56)	0.00017	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">521</a>	816.8972	1631.7798	1631.7719	4.88	0	(0)	58	9	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">523</a>	816.8978	1631.7810	1631.7719	5.62	0	(52)	0.00042	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">524</a>	816.8982	1631.7818	1631.7719	6.11	0	(52)	0.00039	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">526</a>	816.9008	1631.7870	1631.7719	9.29	0	(29)	0.082	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">528</a>	816.9053	1631.7960	1631.7719	14.8	0	(35)	0.022	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">578</a>	694.3150	2079.9232	2079.9426	-9.32	0	75	1e-006	1	K.AGAYDFPSPWDVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">579</a>	694.3163	2079.9271	2079.9426	-7.44	0	(64)	1.4e-005	1	K.AGAYDFPSPWDVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">580</a>	1040.9812	2079.9478	2079.9426	2.55	0	(28)	0.064	1	K.AGAYDFPSPWDVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">581</a>	1040.9817	2079.9488	2079.9426	3.03	0	(51)	0.00036	1	K.AGAYDFPSPWDVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">582</a>	1040.9819	2079.9492	2079.9426	3.22	0	(60)	4.1e-005	1	K.AGAYDFPSPWDVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">583</a>	1040.9828	2079.9510	2079.9426	4.09	0	(58)	6.4e-005	1	K.AGAYDFPSPWDVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">584</a>	1040.9840	2079.9534	2079.9426	5.24	0	(36)	0.01	1	K.AGAYDFPSPWDVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">590</a>	715.3455	2143.0147	2143.0321	-8.12	0	60	5.1e-005	1	K.VTEQLIEAISNGDFESYTK.M
<input checked="" type="checkbox"/>	<a href="#">657</a>	888.7528	2663.2366	2663.2755	-14.62	1	(19)	0.51	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">658</a>	888.7558	2663.2456	2663.2755	-11.24	1	(7)	7.8	2	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">659</a>	888.7559	2663.2459	2663.2755	-11.12	1	(26)	0.11	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">660</a>	888.7564	2663.2474	2663.2755	-10.56	1	(47)	0.00075	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">661</a>	888.7583	2663.2531	2663.2755	-8.42	1	(17)	0.87	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">662</a>	888.7584	2663.2534	2663.2755	-8.31	1	(63)	1.9e-005	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">663</a>	888.7586	2663.2540	2663.2755	-8.08	1	(54)	0.00018	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">664</a>	888.7588	2663.2546	2663.2755	-7.86	1	(63)	2e-005	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">665</a>	888.7589	2663.2549	2663.2755	-7.74	1	(64)	1.8e-005	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">666</a>	888.7592	2663.2558	2663.2755	-7.41	1	(26)	0.12	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">667</a>	888.7593	2663.2561	2663.2755	-7.29	1	(17)	0.85	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">668</a>	888.7594	2663.2564	2663.2755	-7.18	1	(45)	0.0012	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">669</a>	888.7597	2663.2573	2663.2755	-6.84	1	80	4e-007	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">670</a>	888.7598	2663.2576	2663.2755	-6.73	1	(75)	1.2e-006	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">671</a>	888.7599	2663.2579	2663.2755	-6.62	1	(21)	0.33	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">672</a>	888.7599	2663.2579	2663.2755	-6.62	1	(4)	15	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">674</a>	888.7605	2663.2597	2663.2755	-5.94	1	(28)	0.072	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">675</a>	888.7608	2663.2606	2663.2755	-5.60	1	(67)	8e-006	1	K.AGAYDFPSPWDVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">676</a>	888.7608	2663.2606	2663.2755	-5.60	1	(27)	0.086	1	K.AGAYDFPSPWDVTPEAKDLINK.M

## Proteins matching the same set of peptides:

IPI00621806 Mass: 54651 Score: 1434 Queries matched: 119

Tax\_Id=10090 Gene\_Symbol=Camk2a Isoform Alpha CAMKII of Calcium/calmodulin-dependent protein kinase type II subunit alpha

## 2. IPI00474502 Mass: 61164 Score: 978 Queries matched: 66 emPAI: 0.78

Tax\_Id=10090 Gene\_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase type II subunit 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	
<input checked="" type="checkbox"/>	<a href="#">120</a>	452.7383	903.4620	903.4661	-4.53	0	(11)	7.7	1	K.NSSAITSFK.G
<input checked="" type="checkbox"/>	<a href="#">121</a>	452.7405	903.4664	903.4661	0.34	0	(4)	43	3	K.NSSAITSFK.G
<input checked="" type="checkbox"/>	<a href="#">122</a>	452.7416	903.4686	903.4661	2.77	0	31	0.089	1	K.NSSAITSFK.G
<input checked="" type="checkbox"/>	<a href="#">123</a>	452.7432	903.4718	903.4661	6.32	0	(28)	0.16	1	K.NSSAITSFK.G
<input checked="" type="checkbox"/>	<a href="#">126</a>	463.2444	924.4742	924.4777	-3.74	1	11	5.1	1	R.DHKQLER.E
<input checked="" type="checkbox"/>	<a href="#">132</a>	469.2222	936.4298	936.4148	16.0	0	26	0.16	1	R.TSQSEETR.V
<input checked="" type="checkbox"/>	<a href="#">274</a>	572.8061	1143.5976	1143.5964	1.07	0	(22)	0.51	1	R.FYFENLLAK.N
<input checked="" type="checkbox"/>	<a href="#">275</a>	572.8066	1143.5986	1143.5964	1.95	0	(12)	5.4	1	R.FYFENLLAK.N
<input checked="" type="checkbox"/>	<a href="#">276</a>	572.8070	1143.5994	1143.5964	2.65	0	23	0.44	1	R.FYFENLLAK.N
<input checked="" type="checkbox"/>	<a href="#">277</a>	572.8071	1143.5996	1143.5964	2.82	0	(11)	7.5	1	R.FYFENLLAK.N
<input checked="" type="checkbox"/>	<a href="#">278</a>	572.8080	1143.6014	1143.5964	4.40	0	(16)	2.1	1	R.FYFENLLAK.N
<input checked="" type="checkbox"/>	<a href="#">280</a>	574.3269	1146.6392	1146.6431	-3.33	0	(48)	0.00085	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/>	<a href="#">281</a>	574.3270	1146.6394	1146.6431	-3.16	0	54	0.00024	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/>	<a href="#">282</a>	574.3282	1146.6418	1146.6431	-1.06	0	(46)	0.0015	1	K.GAILTTMLATR.N
<input checked="" type="checkbox"/>	<a href="#">370</a>	670.8879	1339.7612	1339.7711	-7.33	0	(37)	0.0084	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">371</a>	670.8884	1339.7622	1339.7711	-6.59	0	(26)	0.11	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">372</a>	670.8900	1339.7654	1339.7711	-4.20	0	(26)	0.1	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">373</a>	670.8904	1339.7662	1339.7711	-3.60	0	(41)	0.0029	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">374</a>	670.8911	1339.7676	1339.7711	-2.56	0	67	7.6e-006	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">375</a>	670.8915	1339.7684	1339.7711	-1.96	0	(39)	0.0044	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">376</a>	670.8923	1339.7700	1339.7711	-0.76	0	(34)	0.015	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">377</a>	670.8926	1339.7706	1339.7711	-0.32	0	(45)	0.0012	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">379</a>	670.8926	1339.7706	1339.7711	-0.32	0	(39)	0.0046	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">380</a>	670.8930	1339.7714	1339.7711	0.28	0	(36)	0.01	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">381</a>	670.8934	1339.7722	1339.7711	0.88	0	(35)	0.011	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">382</a>	670.8936	1339.7726	1339.7711	1.18	0	(32)	0.026	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">383</a>	670.8938	1339.7730	1339.7711	1.47	0	(28)	0.054	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">384</a>	670.8939	1339.7732	1339.7711	1.62	0	(47)	0.00072	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">385</a>	670.8940	1339.7734	1339.7711	1.77	0	(1)	30	9	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">386</a>	670.8944	1339.7742	1339.7711	2.37	0	(32)	0.02	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">387</a>	670.8953	1339.7760	1339.7711	3.71	0	(47)	0.00064	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">388</a>	670.8953	1339.7760	1339.7711	3.71	0	(47)	0.00077	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">389</a>	670.8954	1339.7762	1339.7711	3.86	0	(21)	0.31	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">390</a>	670.8956	1339.7766	1339.7711	4.16	0	(38)	0.006	1	R.DLKPENLLASK.C
<input checked="" type="checkbox"/>	<a href="#">414</a>	702.3716	1402.7286	1402.7317	-2.18	0	(2)	41	1	R.LTQYIDGQGRPR.T
<input checked="" type="checkbox"/>	<a href="#">415</a>	702.3759	1402.7372	1402.7317	3.95	0	5	23	2	R.LTQYIDGQGRPR.T
<input checked="" type="checkbox"/>	<a href="#">429</a>	735.4117	1468.8088	1468.8071	1.16	0	(58)	6.9e-005	1	K.NLINQMLTINPAK.R
<input checked="" type="checkbox"/>	<a href="#">430</a>	735.4119	1468.8092	1468.8071	1.43	0	(63)	2.2e-005	1	K.NLINQMLTINPAK.R
<input checked="" type="checkbox"/>	<a href="#">431</a>	735.4133	1468.8120	1468.8071	3.34	0	(74)	2e-006	1	K.NLINQMLTINPAK.R
<input checked="" type="checkbox"/>	<a href="#">432</a>	735.4143	1468.8140	1468.8071	4.70	0	76	1.2e-006	1	K.NLINQMLTINPAK.R

<input checked="" type="checkbox"/>	<a href="#">539</a>	<a href="#">871.3708</a>	<a href="#">1740.7270</a>	<a href="#">1740.7173</a>	<a href="#">5.57</a>	<a href="#">0</a>	<a href="#">(7)</a>	<a href="#">3.6</a>	<a href="#">1</a>	<a href="#">K.ESSDSTNTTIEDEDAK.A</a>
<input checked="" type="checkbox"/>	<a href="#">540</a>	<a href="#">871.3715</a>	<a href="#">1740.7284</a>	<a href="#">1740.7173</a>	<a href="#">6.38</a>	<a href="#">0</a>	<a href="#">17</a>	<a href="#">0.37</a>	<a href="#">1</a>	<a href="#">K.ESSDSTNTTIEDEDAK.A</a>
<input checked="" type="checkbox"/>	<a href="#">572</a>	<a href="#">656.9528</a>	<a href="#">1967.8366</a>	<a href="#">1967.8556</a>	<a href="#">-9.65</a>	<a href="#">1</a>	<a href="#">94</a>	<a href="#">8.3e-009</a>	<a href="#">1</a>	<a href="#">K.ESSDSTNTTIEDEDAKAR.K</a>
	<a href="#">578</a>	<a href="#">694.3150</a>	<a href="#">2079.9232</a>	<a href="#">2079.9426</a>	<a href="#">-9.32</a>	<a href="#">0</a>	<a href="#">75</a>	<a href="#">1e-006</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.N</a>
	<a href="#">579</a>	<a href="#">694.3163</a>	<a href="#">2079.9271</a>	<a href="#">2079.9426</a>	<a href="#">-7.44</a>	<a href="#">0</a>	<a href="#">(64)</a>	<a href="#">1.4e-005</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.N</a>
	<a href="#">580</a>	<a href="#">1040.9812</a>	<a href="#">2079.9478</a>	<a href="#">2079.9426</a>	<a href="#">2.55</a>	<a href="#">0</a>	<a href="#">(28)</a>	<a href="#">0.064</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.N</a>
	<a href="#">581</a>	<a href="#">1040.9817</a>	<a href="#">2079.9488</a>	<a href="#">2079.9426</a>	<a href="#">3.03</a>	<a href="#">0</a>	<a href="#">(51)</a>	<a href="#">0.00036</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.N</a>
	<a href="#">582</a>	<a href="#">1040.9819</a>	<a href="#">2079.9492</a>	<a href="#">2079.9426</a>	<a href="#">3.22</a>	<a href="#">0</a>	<a href="#">(60)</a>	<a href="#">4.1e-005</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.N</a>
	<a href="#">583</a>	<a href="#">1040.9828</a>	<a href="#">2079.9510</a>	<a href="#">2079.9426</a>	<a href="#">4.09</a>	<a href="#">0</a>	<a href="#">(58)</a>	<a href="#">6.4e-005</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.N</a>
	<a href="#">584</a>	<a href="#">1040.9840</a>	<a href="#">2079.9534</a>	<a href="#">2079.9426</a>	<a href="#">5.24</a>	<a href="#">0</a>	<a href="#">(36)</a>	<a href="#">0.01</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.N</a>
<input checked="" type="checkbox"/>	<a href="#">588</a>	<a href="#">705.0029</a>	<a href="#">2111.9869</a>	<a href="#">2112.0011</a>	<a href="#">-6.74</a>	<a href="#">0</a>	<a href="#">71</a>	<a href="#">3.9e-006</a>	<a href="#">1</a>	<a href="#">K.TTEQLIEAVNNGDFEAYK.I</a>
<input checked="" type="checkbox"/>	<a href="#">634</a>	<a href="#">779.7132</a>	<a href="#">2336.1178</a>	<a href="#">2336.1325</a>	<a href="#">-6.29</a>	<a href="#">1</a>	<a href="#">17</a>	<a href="#">0.81</a>	<a href="#">1</a>	<a href="#">R.FTDEYQLYEDIGKGFVSVVR.R</a>
<input checked="" type="checkbox"/>	<a href="#">635</a>	<a href="#">779.7135</a>	<a href="#">2336.1187</a>	<a href="#">2336.1325</a>	<a href="#">-5.91</a>	<a href="#">1</a>	<a href="#">(9)</a>	<a href="#">6</a>	<a href="#">1</a>	<a href="#">R.FTDEYQLYEDIGKGFVSVVR.R</a>
<input checked="" type="checkbox"/>	<a href="#">637</a>	<a href="#">779.7166</a>	<a href="#">2336.1280</a>	<a href="#">2336.1325</a>	<a href="#">-1.93</a>	<a href="#">1</a>	<a href="#">(15)</a>	<a href="#">1.4</a>	<a href="#">1</a>	<a href="#">R.FTDEYQLYEDIGKGFVSVVR.R</a>
<input checked="" type="checkbox"/>	<a href="#">643</a>	<a href="#">785.0448</a>	<a href="#">2352.1126</a>	<a href="#">2352.1301</a>	<a href="#">-7.46</a>	<a href="#">0</a>	<a href="#">(89)</a>	<a href="#">4.8e-008</a>	<a href="#">1</a>	<a href="#">R.QTTAPATMSTAASGTTMGLVEQAK.S</a>
<input checked="" type="checkbox"/>	<a href="#">644</a>	<a href="#">785.0455</a>	<a href="#">2352.1147</a>	<a href="#">2352.1301</a>	<a href="#">-6.56</a>	<a href="#">0</a>	<a href="#">(88)</a>	<a href="#">6.7e-008</a>	<a href="#">1</a>	<a href="#">R.QTTAPATMSTAASGTTMGLVEQAK.S</a>
<input checked="" type="checkbox"/>	<a href="#">645</a>	<a href="#">1177.0762</a>	<a href="#">2352.1378</a>	<a href="#">2352.1301</a>	<a href="#">3.29</a>	<a href="#">0</a>	<a href="#">(96)</a>	<a href="#">1e-008</a>	<a href="#">1</a>	<a href="#">R.QTTAPATMSTAASGTTMGLVEQAK.S</a>
<input checked="" type="checkbox"/>	<a href="#">646</a>	<a href="#">1177.0767</a>	<a href="#">2352.1388</a>	<a href="#">2352.1301</a>	<a href="#">3.71</a>	<a href="#">0</a>	<a href="#">98</a>	<a href="#">7.3e-009</a>	<a href="#">1</a>	<a href="#">R.QTTAPATMSTAASGTTMGLVEQAK.S</a>
<input checked="" type="checkbox"/>	<a href="#">647</a>	<a href="#">785.4142</a>	<a href="#">2353.2208</a>	<a href="#">2353.2642</a>	<a href="#">-18.44</a>	<a href="#">0</a>	<a href="#">(35)</a>	<a href="#">0.013</a>	<a href="#">1</a>	<a href="#">K.GSLPPAALEPQTTVIHNVPDGIK.E</a>
<input checked="" type="checkbox"/>	<a href="#">648</a>	<a href="#">785.4187</a>	<a href="#">2353.2343</a>	<a href="#">2353.2642</a>	<a href="#">-12.70</a>	<a href="#">0</a>	<a href="#">64</a>	<a href="#">1.6e-005</a>	<a href="#">1</a>	<a href="#">K.GSLPPAALEPQTTVIHNVPDGIK.E</a>
<input checked="" type="checkbox"/>	<a href="#">649</a>	<a href="#">785.4208</a>	<a href="#">2353.2406</a>	<a href="#">2353.2642</a>	<a href="#">-10.02</a>	<a href="#">0</a>	<a href="#">(62)</a>	<a href="#">2.2e-005</a>	<a href="#">1</a>	<a href="#">K.GSLPPAALEPQTTVIHNVPDGIK.E</a>
<input checked="" type="checkbox"/>	<a href="#">650</a>	<a href="#">785.4230</a>	<a href="#">2353.2472</a>	<a href="#">2353.2642</a>	<a href="#">-7.22</a>	<a href="#">0</a>	<a href="#">(44)</a>	<a href="#">0.0014</a>	<a href="#">1</a>	<a href="#">K.GSLPPAALEPQTTVIHNVPDGIK.E</a>
<input checked="" type="checkbox"/>	<a href="#">651</a>	<a href="#">785.4244</a>	<a href="#">2353.2514</a>	<a href="#">2353.2642</a>	<a href="#">-5.43</a>	<a href="#">0</a>	<a href="#">(40)</a>	<a href="#">0.0036</a>	<a href="#">1</a>	<a href="#">K.GSLPPAALEPQTTVIHNVPDGIK.E</a>
<input checked="" type="checkbox"/>	<a href="#">652</a>	<a href="#">790.3753</a>	<a href="#">2368.1041</a>	<a href="#">2368.1250</a>	<a href="#">-8.85</a>	<a href="#">0</a>	<a href="#">(85)</a>	<a href="#">1.2e-007</a>	<a href="#">1</a>	<a href="#">R.QTTAPATMSTAASGTTMGLVEQAK.S + Oxidation (M)</a>
<input checked="" type="checkbox"/>	<a href="#">653</a>	<a href="#">790.3780</a>	<a href="#">2368.1122</a>	<a href="#">2368.1250</a>	<a href="#">-5.43</a>	<a href="#">0</a>	<a href="#">(79)</a>	<a href="#">4.5e-007</a>	<a href="#">1</a>	<a href="#">R.QTTAPATMSTAASGTTMGLVEQAK.S + Oxidation (M)</a>

## Proteins matching the same set of peptides:

IPI00875723 Mass: 68686 Score: 978 Queries matched: 66  
 Tax\_Id=10090 Gene\_Symbol=Camk2b 68 kDa protein

## 3. IPI00112584 Mass: 56961 Score: 636 Queries matched: 57 emPAI: 0.48

Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit 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	
<a href="#">33</a>	<a href="#">602.3627</a>	<a href="#">601.3554</a>	<a href="#">601.3435</a>	<a href="#">19.8</a>	<a href="#">0</a>	<a href="#">20</a>	<a href="#">1.6</a>	<a href="#">1</a>	<a href="#">K.DLINK.M</a>	
<a href="#">126</a>	<a href="#">463.2444</a>	<a href="#">924.4742</a>	<a href="#">924.4777</a>	<a href="#">-3.74</a>	<a href="#">1</a>	<a href="#">11</a>	<a href="#">5.1</a>	<a href="#">1</a>	<a href="#">R.DHQKLER.E</a>	
<input checked="" type="checkbox"/>	<a href="#">241</a>	<a href="#">539.2839</a>	<a href="#">1076.5532</a>	<a href="#">2.83</a>	<a href="#">0</a>	<a href="#">10</a>	<a href="#">8.9</a>	<a href="#">1</a>	<a href="#">K.IPTGQYAAK.I</a>	
<a href="#">280</a>	<a href="#">574.3269</a>	<a href="#">1146.6392</a>	<a href="#">1146.6431</a>	<a href="#">-3.33</a>	<a href="#">0</a>	<a href="#">(48)</a>	<a href="#">0.00085</a>	<a href="#">1</a>	<a href="#">K.GAILTTMLATR.N</a>	
<a href="#">281</a>	<a href="#">574.3270</a>	<a href="#">1146.6394</a>	<a href="#">1146.6431</a>	<a href="#">-3.16</a>	<a href="#">0</a>	<a href="#">54</a>	<a href="#">0.00024</a>	<a href="#">1</a>	<a href="#">K.GAILTTMLATR.N</a>	
<a href="#">282</a>	<a href="#">574.3282</a>	<a href="#">1146.6418</a>	<a href="#">1146.6431</a>	<a href="#">-1.06</a>	<a href="#">0</a>	<a href="#">(46)</a>	<a href="#">0.0015</a>	<a href="#">1</a>	<a href="#">K.GAILTTMLATR.N</a>	
<input checked="" type="checkbox"/>	<a href="#">366</a>	<a href="#">664.3086</a>	<a href="#">1326.6026</a>	<a href="#">1326.5948</a>	<a href="#">5.91</a>	<a href="#">0</a>	<a href="#">59</a>	<a href="#">6.2e-005</a>	<a href="#">1</a>	<a href="#">R.LTYMDGSGMPK.T</a>
<input checked="" type="checkbox"/>	<a href="#">367</a>	<a href="#">664.3100</a>	<a href="#">1326.6054</a>	<a href="#">1326.5948</a>	<a href="#">8.02</a>	<a href="#">0</a>	<a href="#">(46)</a>	<a href="#">0.0015</a>	<a href="#">1</a>	<a href="#">R.LTYMDGSGMPK.T</a>
<a href="#">370</a>	<a href="#">670.8879</a>	<a href="#">1339.7612</a>	<a href="#">1339.7711</a>	<a href="#">-7.33</a>	<a href="#">0</a>	<a href="#">(37)</a>	<a href="#">0.0084</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">371</a>	<a href="#">670.8884</a>	<a href="#">1339.7622</a>	<a href="#">1339.7711</a>	<a href="#">-6.59</a>	<a href="#">0</a>	<a href="#">(26)</a>	<a href="#">0.11</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">372</a>	<a href="#">670.8900</a>	<a href="#">1339.7654</a>	<a href="#">1339.7711</a>	<a href="#">-4.20</a>	<a href="#">0</a>	<a href="#">(26)</a>	<a href="#">0.1</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">373</a>	<a href="#">670.8904</a>	<a href="#">1339.7662</a>	<a href="#">1339.7711</a>	<a href="#">-3.60</a>	<a href="#">0</a>	<a href="#">(41)</a>	<a href="#">0.0029</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">374</a>	<a href="#">670.8911</a>	<a href="#">1339.7676</a>	<a href="#">1339.7711</a>	<a href="#">-2.56</a>	<a href="#">0</a>	<a href="#">67</a>	<a href="#">7.6e-006</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">375</a>	<a href="#">670.8915</a>	<a href="#">1339.7684</a>	<a href="#">1339.7711</a>	<a href="#">-1.96</a>	<a href="#">0</a>	<a href="#">(39)</a>	<a href="#">0.0044</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">376</a>	<a href="#">670.8923</a>	<a href="#">1339.7700</a>	<a href="#">1339.7711</a>	<a href="#">-0.76</a>	<a href="#">0</a>	<a href="#">(27)</a>	<a href="#">0.069</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">377</a>	<a href="#">670.8923</a>	<a href="#">1339.7700</a>	<a href="#">1339.7711</a>	<a href="#">-0.76</a>	<a href="#">0</a>	<a href="#">(34)</a>	<a href="#">0.015</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">378</a>	<a href="#">670.8926</a>	<a href="#">1339.7706</a>	<a href="#">1339.7711</a>	<a href="#">-0.32</a>	<a href="#">0</a>	<a href="#">(45)</a>	<a href="#">0.0012</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">379</a>	<a href="#">670.8926</a>	<a href="#">1339.7706</a>	<a href="#">1339.7711</a>	<a href="#">-0.32</a>	<a href="#">0</a>	<a href="#">(39)</a>	<a href="#">0.0046</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">380</a>	<a href="#">670.8930</a>	<a href="#">1339.7714</a>	<a href="#">1339.7711</a>	<a href="#">0.28</a>	<a href="#">0</a>	<a href="#">(36)</a>	<a href="#">0.01</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">381</a>	<a href="#">670.8934</a>	<a href="#">1339.7722</a>	<a href="#">1339.7711</a>	<a href="#">0.88</a>	<a href="#">0</a>	<a href="#">(35)</a>	<a href="#">0.011</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">382</a>	<a href="#">670.8936</a>	<a href="#">1339.7726</a>	<a href="#">1339.7711</a>	<a href="#">1.18</a>	<a href="#">0</a>	<a href="#">(32)</a>	<a href="#">0.026</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">383</a>	<a href="#">670.8938</a>	<a href="#">1339.7730</a>	<a href="#">1339.7711</a>	<a href="#">1.47</a>	<a href="#">0</a>	<a href="#">(28)</a>	<a href="#">0.054</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">384</a>	<a href="#">670.8939</a>	<a href="#">1339.7732</a>	<a href="#">1339.7711</a>	<a href="#">1.62</a>	<a href="#">0</a>	<a href="#">(47)</a>	<a href="#">0.00072</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">385</a>	<a href="#">670.8940</a>	<a href="#">1339.7734</a>	<a href="#">1339.7711</a>	<a href="#">1.77</a>	<a href="#">0</a>	<a href="#">(1)</a>	<a href="#">30</a>	<a href="#">9</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">386</a>	<a href="#">670.8944</a>	<a href="#">1339.7742</a>	<a href="#">1339.7711</a>	<a href="#">2.37</a>	<a href="#">0</a>	<a href="#">(32)</a>	<a href="#">0.02</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">387</a>	<a href="#">670.8953</a>	<a href="#">1339.7760</a>	<a href="#">1339.7711</a>	<a href="#">3.71</a>	<a href="#">0</a>	<a href="#">(47)</a>	<a href="#">0.00064</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">388</a>	<a href="#">670.8953</a>	<a href="#">1339.7760</a>	<a href="#">1339.7711</a>	<a href="#">3.71</a>	<a href="#">0</a>	<a href="#">(47)</a>	<a href="#">0.00077</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">389</a>	<a href="#">670.8954</a>	<a href="#">1339.7762</a>	<a href="#">1339.7711</a>	<a href="#">3.86</a>	<a href="#">0</a>	<a href="#">(21)</a>	<a href="#">0.31</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
<a href="#">390</a>	<a href="#">670.8956</a>	<a href="#">1339.7766</a>	<a href="#">1339.7711</a>	<a href="#">4.16</a>	<a href="#">0</a>	<a href="#">(38)</a>	<a href="#">0.006</a>	<a href="#">1</a>	<a href="#">R.DLKPENLLASK.S</a>	
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<a href="#">578</a>	<a href="#">694.3150</a>	<a href="#">2079.9232</a>	<a href="#">2079.9426</a>	<a href="#">-9.32</a>	<a href="#">0</a>	<a href="#">75</a>	<a href="#">1e-006</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.D</a>	
<a href="#">579</a>	<a href="#">694.3163</a>	<a href="#">2079.9271</a>	<a href="#">2079.9426</a>	<a href="#">-7.44</a>	<a href="#">0</a>	<a href="#">(64)</a>	<a href="#">1.4e-005</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.D</a>	
<a href="#">580</a>	<a href="#">1040.9812</a>	<a href="#">2079.9478</a>	<a href="#">2079.9426</a>	<a href="#">2.55</a>	<a href="#">0</a>	<a href="#">(28)</a>	<a href="#">0.064</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.D</a>	
<a href="#">581</a>	<a href="#">1040.9817</a>	<a href="#">2079.9488</a>	<a href="#">2079.9426</a>	<a href="#">3.03</a>	<a href="#">0</a>	<a href="#">(51)</a>	<a href="#">0.00036</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.D</a>	
<a href="#">582</a>	<a href="#">1040.9819</a>	<a href="#">2079.9492</a>	<a href="#">2079.9426</a>	<a href="#">3.22</a>	<a href="#">0</a>	<a href="#">(60)</a>	<a href="#">4.1e-005</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.D</a>	
<a href="#">583</a>	<a href="#">1040.9828</a>	<a href="#">2079.9510</a>	<a href="#">2079.9426</a>	<a href="#">4.09</a>	<a href="#">0</a>	<a href="#">(58)</a>	<a href="#">6.4e-005</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.D</a>	
<a href="#">584</a>	<a href="#">1040.9840</a>	<a href="#">2079.9534</a>	<a href="#">2079.9426</a>	<a href="#">5.24</a>	<a href="#">0</a>	<a href="#">(36)</a>	<a href="#">0.01</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAK.D</a>	
<a href="#">657</a>	<a href="#">888.7528</a>	<a href="#">2663.2366</a>	<a href="#">2663.2755</a>	<a href="#">-14.62</a>	<a href="#">1</a>	<a href="#">(19)</a>	<a href="#">0.51</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAKDLINK.M</a>	
<a href="#">658</a>	<a href="#">888.7558</a>	<a href="#">2663.2456</a>	<a href="#">2663.2755</a>	<a href="#">-11.24</a>	<a href="#">1</a>	<a href="#">(7)</a>	<a href="#">7.8</a>	<a href="#">2</a>	<a href="#">K.AGAYDFPSPWDVTPEAKDLINK.M</a>	
<a href="#">659</a>	<a href="#">888.7559</a>	<a href="#">2663.2459</a>	<a href="#">2663.2755</a>	<a href="#">-11.12</a>	<a href="#">1</a>	<a href="#">(26)</a>	<a href="#">0.11</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAKDLINK.M</a>	
<a href="#">660</a>	<a href="#">888.7564</a>	<a href="#">2663.2474</a>	<a href="#">2663.2755</a>	<a href="#">-10.56</a>	<a href="#">1</a>	<a href="#">(47)</a>	<a href="#">0.00075</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAKDLINK.M</a>	
<a href="#">661</a>	<a href="#">888.7583</a>	<a href="#">2663.2531</a>	<a href="#">2663.2755</a>	<a href="#">-8.42</a>	<a href="#">1</a>	<a href="#">(17)</a>	<a href="#">0.87</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAKDLINK.M</a>	
<a href="#">662</a>	<a href="#">888.7584</a>	<a href="#">2663.2534</a>	<a href="#">2663.2755</a>	<a href="#">-8.31</a>	<a href="#">1</a>	<a href="#">(63)</a>	<a href="#">1.9e-005</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAKDLINK.M</a>	
<a href="#">663</a>	<a href="#">888.7586</a>	<a href="#">2663.2540</a>	<a href="#">2663.2755</a>	<a href="#">-8.08</a>	<a href="#">1</a>	<a href="#">(54)</a>	<a href="#">0.00018</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAKDLINK.M</a>	
<a href="#">664</a>	<a href="#">888.7588</a>	<a href="#">2663.2546</a>	<a href="#">2663.2755</a>	<a href="#">-7.86</a>	<a href="#">1</a>	<a href="#">(63)</a>	<a href="#">2e-005</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAKDLINK.M</a>	
<a href="#">665</a>	<a href="#">888.7589</a>	<a href="#">2663.2549</a>	<a href="#">2663.2755</a>	<a href="#">-7.74</a>	<a href="#">1</a>	<a href="#">(64)</a>	<a href="#">1.8e-005</a>	<a href="#">1</a>	<a href="#">K.AGAYDFPSPWDVTPEAKDLINK.M</a>	
<a href="#">666</a>										

<a href="#">671</a>	888.7599	2663.2579	2663.2755	-6.62	1	(21)	0.33	1	K.AGAYDFPSPEDTITPEAKDLINK.M
<a href="#">672</a>	888.7599	2663.2579	2663.2755	-6.62	1	(4)	15	1	K.AGAYDFPSPEDTITPEAKDLINK.M
<a href="#">674</a>	888.7605	2663.2597	2663.2755	-5.94	1	(28)	0.072	1	K.AGAYDFPSPEDTITPEAKDLINK.M
<a href="#">675</a>	888.7608	2663.2606	2663.2755	-5.60	1	(67)	8e-006	1	K.AGAYDFPSPEDTITPEAKDLINK.M
<a href="#">676</a>	888.7608	2663.2606	2663.2755	-5.60	1	(27)	0.086	1	K.AGAYDFPSPEDTITPEAKDLINK.M

## Proteins matching the same set of peptides:

<a href="#">IPI00406790</a>	Mass: 60593	Score: 636	Queries matched: 57
Tax_Id=10090	Gene_Symbol=Camk2d	Isoform 4	of Calcium/calmodulin-dependent protein kinase type II subunit delta
<a href="#">IPI00475044</a>	Mass: 55899	Score: 636	Queries matched: 57
Tax_Id=10090	Gene_Symbol=Camk2d	Isoform 2	of Calcium/calmodulin-dependent protein kinase type II subunit delta
<a href="#">IPI00828919</a>	Mass: 58492	Score: 636	Queries matched: 57
Tax_Id=10090	Gene_Symbol=Camk2d	Isoform 3	of Calcium/calmodulin-dependent protein kinase type II subunit delta
<a href="#">IPI00857865</a>	Mass: 54664	Score: 636	Queries matched: 57
Tax_Id=10090	Gene_Symbol=Camk2d	Putative uncharacterized protein	
<a href="#">IPI00858128</a>	Mass: 58283	Score: 636	Queries matched: 57
Tax_Id=10090	Gene_Symbol=Camk2d	calcium/calmodulin-dependent protein kinase type II subunit delta isoform 1	
<a href="#">IPI00858144</a>	Mass: 55828	Score: 636	Queries matched: 57
Tax_Id=10090	Gene_Symbol=Camk2d	55 kDa protein	

4. [IPI00124695](#) Mass: 60254 Score: 516 Queries matched: 39 emPAI: 0.30  
 Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 1 of Calcium/calmodulin-dependent protein kinase type II 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
<a href="#">126</a>	463.2444	924.4742	924.4777	-3.74	1	11	5.1	1	R.DHQKLER.E
<a href="#">132</a>	469.2222	936.4298	936.4148	16.0	0	26	0.16	1	R.TSQSEETR.V
<input checked="" type="checkbox"/> <a href="#">165</a>	<b>499.7433</b>	<b>997.4720</b>	<b>997.4716</b>	<b>0.43</b>	<b>0</b>	<b>23</b>	<b>0.27</b>	<b>1</b>	<b>K.TSTQYAAK.I</b>
<a href="#">370</a>	670.8879	1339.7612	1339.7711	-7.33	0	(37)	0.0084	1	R.DLKPENLLLASK.C
<a href="#">371</a>	670.8884	1339.7622	1339.7711	-6.59	0	(26)	0.11	1	R.DLKPENLLLASK.C
<a href="#">372</a>	670.8900	1339.7654	1339.7711	-4.20	0	(26)	0.1	1	R.DLKPENLLLASK.C
<a href="#">373</a>	670.8904	1339.7662	1339.7711	-3.60	0	(41)	0.0029	1	R.DLKPENLLLASK.C
<a href="#">374</a>	670.8911	1339.7676	1339.7711	-2.56	0	67	7.6e-006	1	R.DLKPENLLLASK.C
<a href="#">375</a>	670.8915	1339.7684	1339.7711	-1.96	0	(39)	0.0044	1	R.DLKPENLLLASK.C
<a href="#">376</a>	670.8923	1339.7700	1339.7711	-0.76	0	(27)	0.069	1	R.DLKPENLLLASK.C
<a href="#">377</a>	670.8923	1339.7700	1339.7711	-0.76	0	(34)	0.015	1	R.DLKPENLLLASK.C
<a href="#">378</a>	670.8926	1339.7706	1339.7711	-0.32	0	(45)	0.0012	1	R.DLKPENLLLASK.C
<a href="#">379</a>	670.8926	1339.7706	1339.7711	-0.32	0	(39)	0.0046	1	R.DLKPENLLLASK.C
<a href="#">380</a>	670.8930	1339.7714	1339.7711	0.28	0	(36)	0.01	1	R.DLKPENLLLASK.C
<a href="#">381</a>	670.8934	1339.7722	1339.7711	0.88	0	(35)	0.011	1	R.DLKPENLLLASK.C
<a href="#">382</a>	670.8936	1339.7726	1339.7711	1.18	0	(32)	0.026	1	R.DLKPENLLLASK.C
<a href="#">383</a>	670.8938	1339.7730	1339.7711	1.47	0	(28)	0.054	1	R.DLKPENLLLASK.C
<a href="#">384</a>	670.8939	1339.7732	1339.7711	1.62	0	(47)	0.00072	1	R.DLKPENLLLASK.C
<a href="#">385</a>	670.8940	1339.7734	1339.7711	1.77	0	(1)	30	9	R.DLKPENLLLASK.C
<a href="#">386</a>	670.8944	1339.7742	1339.7711	2.37	0	(32)	0.02	1	R.DLKPENLLLASK.C
<a href="#">387</a>	670.8953	1339.7760	1339.7711	3.71	0	(47)	0.00064	1	R.DLKPENLLLASK.C
<a href="#">388</a>	670.8953	1339.7760	1339.7711	3.71	0	(47)	0.00077	1	R.DLKPENLLLASK.C
<a href="#">389</a>	670.8954	1339.7762	1339.7711	3.86	0	(21)	0.31	1	R.DLKPENLLLASK.C
<a href="#">390</a>	670.8956	1339.7766	1339.7711	4.16	0	(38)	0.006	1	R.DLKPENLLLASK.C
<a href="#">414</a>	702.3716	1402.7286	1402.7317	-2.18	0	(2)	41	1	R.LTQYIDGQGRPR.T
<a href="#">415</a>	702.3759	1402.7372	1402.7317	3.95	0	5	23	2	R.LTQYIDGQGRPR.T
<a href="#">429</a>	735.4117	1468.8088	1468.8071	1.16	0	(58)	6.9e-005	1	K.NLINQMLTINPAK.R
<a href="#">430</a>	735.4119	1468.8092	1468.8071	1.43	0	(63)	2.2e-005	1	K.NLINQMLTINPAK.R
<a href="#">431</a>	735.4133	1468.8120	1468.8071	3.34	0	(74)	2e-006	1	K.NLINQMLTINPAK.R
<a href="#">432</a>	735.4143	1468.8140	1468.8071	4.70	0	76	1.2e-006	1	K.NLINQMLTINPAK.R
<input checked="" type="checkbox"/> <a href="#">484</a>	<b>802.8825</b>	<b>1603.7504</b>	<b>1603.7406</b>	<b>6.14</b>	<b>0</b>	<b>(68)</b>	<b>9.3e-006</b>	<b>1</b>	<b>R.FTDDYQLFEELGK.G</b>
<input checked="" type="checkbox"/> <a href="#">485</a>	<b>802.8837</b>	<b>1603.7528</b>	<b>1603.7406</b>	<b>7.64</b>	<b>0</b>	<b>69</b>	<b>7.7e-006</b>	<b>1</b>	<b>R.FTDDYQLFEELGK.G</b>
<a href="#">578</a>	694.3150	2079.9232	2079.9426	-9.32	0	75	1e-006	1	K.AGAYDFPSPEDTITPEAK.N
<a href="#">579</a>	694.3163	2079.9271	2079.9426	-7.44	0	(64)	1.4e-005	1	K.AGAYDFPSPEDTITPEAK.N
<a href="#">580</a>	1040.9812	2079.9478	2079.9426	2.55	0	(28)	0.064	1	K.AGAYDFPSPEDTITPEAK.N
<a href="#">581</a>	1040.9817	2079.9488	2079.9426	3.03	0	(51)	0.00036	1	K.AGAYDFPSPEDTITPEAK.N
<a href="#">582</a>	1040.9819	2079.9492	2079.9426	3.22	0	(60)	4.1e-005	1	K.AGAYDFPSPEDTITPEAK.N
<a href="#">583</a>	1040.9828	2079.9510	2079.9426	4.09	0	(58)	6.4e-005	1	K.AGAYDFPSPEDTITPEAK.N
<a href="#">584</a>	1040.9840	2079.9534	2079.9426	5.24	0	(36)	0.01	1	K.AGAYDFPSPEDTITPEAK.N

## Proteins matching the same set of peptides:

<a href="#">IPI00228044</a>	Mass: 59013	Score: 516	Queries matched: 39
Tax_Id=10090	Gene_Symbol=Camk2g	Isoform 2	of Calcium/calmodulin-dependent protein kinase type II subunit gamma
<a href="#">IPI00228045</a>	Mass: 56610	Score: 516	Queries matched: 39
Tax_Id=10090	Gene_Symbol=Camk2g	Isoform 3	of Calcium/calmodulin-dependent protein kinase type II subunit gamma

5. [IPI00109073](#) Mass: 50010 Score: 259 Queries matched: 11 emPAI: 0.29

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
<input checked="" type="checkbox"/> <a href="#">273</a>	<b>572.3212</b>	<b>1142.6278</b>	<b>1142.6270</b>	<b>0.72</b>	<b>0</b>	<b>42</b>	<b>0.0049</b>	<b>1</b>	<b>K.LAVNMVPPFR.L</b>
<a href="#">317</a>	615.2972	1228.5798	1228.5910	-9.10	0	1	43	2	R.ISEQTAMFR.R
<input checked="" type="checkbox"/> <a href="#">364</a>	<b>660.3562</b>	<b>1318.6978</b>	<b>1318.6955</b>	<b>1.77</b>	<b>0</b>	<b>85</b>	<b>2.5e-007</b>	<b>1</b>	<b>R.IMNTFVVPSPK.V</b>
<input checked="" type="checkbox"/> <a href="#">365</a>	<b>660.3578</b>	<b>1318.7010</b>	<b>1318.6955</b>	<b>4.20</b>	<b>0</b>	<b>(84)</b>	<b>2.7e-007</b>	<b>1</b>	<b>R.IMNTFVVPSPK.V</b>
<input checked="" type="checkbox"/> <a href="#">481</a>	<b>801.4144</b>	<b>1600.8142</b>	<b>1600.8131</b>	<b>0.74</b>	<b>0</b>	<b>82</b>	<b>3.6e-007</b>	<b>1</b>	<b>R.AVLVDLEPGTMSVR.S</b>
<input checked="" type="checkbox"/> <a href="#">482</a>	<b>801.4154</b>	<b>1600.8162</b>	<b>1600.8131</b>	<b>1.99</b>	<b>0</b>	<b>(67)</b>	<b>1.2e-005</b>	<b>1</b>	<b>R.AVLVDLEPGTMSVR.S</b>
<input checked="" type="checkbox"/> <a href="#">483</a>	<b>801.4161</b>	<b>1600.8176</b>	<b>1600.8131</b>	<b>2.86</b>	<b>0</b>	<b>(60)</b>	<b>5.9e-005</b>	<b>1</b>	<b>R.AVLVDLEPGTMSVR.S</b>
<input checked="" type="checkbox"/> <a href="#">532</a>	<b>846.4391</b>	<b>1690.8636</b>	<b>1690.8600</b>	<b>2.16</b>	<b>0</b>	<b>(20)</b>	<b>0.66</b>	<b>1</b>	<b>R.ALTVPPELTQQMFDK.N</b>
<input checked="" type="checkbox"/> <a href="#">533</a>	<b>846.4404</b>	<b>1690.8662</b>	<b>1690.8600</b>	<b>3.69</b>	<b>0</b>	<b>40</b>	<b>0.0061</b>	<b>1</b>	<b>R.ALTVPPELTQQMFDK.N</b>
<input checked="" type="checkbox"/> <a href="#">534</a>	<b>848.9236</b>	<b>1695.8326</b>	<b>1695.8257</b>	<b>4.12</b>	<b>0</b>	<b>15</b>	<b>2.1</b>	<b>1</b>	<b>K.NSSYFVEWIPNVK.T</b>
<input checked="" type="checkbox"/> <a href="#">537</a>	<b>854.4365</b>	<b>1706.8584</b>	<b>1706.8549</b>	<b>2.07</b>	<b>0</b>	<b>(30)</b>	<b>0.064</b>	<b>2</b>	<b>R.ALTVPPELTQQMFDK.N + Oxidation (M)</b>

## Proteins matching the same set of peptides:

[IPI00169463](#) Mass: 50255 Score: 259 Queries matched: 11  
Tax\_Id=10090 Gene\_Symbol=Tubb2c Tubulin beta-2C chain

6. [IPI00115546](#) Mass: 40524 Score: 227 Queries matched: 5 emPAI: 0.27  
Tax\_Id=10090 Gene\_Symbol=Gnaol Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) 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"/> <a href="#">203</a>	529.3122	1056.6098	1056.6179	-7.61	0	(18)	0.98	1	K.LLLLGGESGK.S
<input checked="" type="checkbox"/> <a href="#">204</a>	529.3124	1056.6102	1056.6179	-7.23	0	44	0.0026	1	K.LLLLGGESGK.S
<input checked="" type="checkbox"/> <a href="#">531</a>	838.4189	1674.8232	1674.8213	1.16	0	113	3.4e-010	1	R.IGAGDYQPTQDILR.T
<input checked="" type="checkbox"/> <a href="#">570</a>	979.4428	1956.8710	1956.8631	4.07	0	87	7.1e-008	1	R.MEDTEFFSAELLSAMMR.L
<input checked="" type="checkbox"/> <a href="#">571</a>	979.4498	1956.8850	1956.8631	11.2	0	(83)	1.8e-007	1	R.MEDTEFFSAELLSAMMR.L

## Proteins matching the same set of peptides:

[IPI00230192](#) Mass: 40629 Score: 227 Queries matched: 5  
Tax\_Id=10090 Gene\_Symbol=Gnaol Isoform Alpha-1 of Guanine nucleotide-binding protein G(o) subunit alpha

7. [IPI00323571](#) Mass: 35901 Score: 226 Queries matched: 18 emPAI: 0.86  
Tax\_Id=10090 Gene\_Symbol=ApoE Apolipoprotein E

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"/> <a href="#">152</a>	484.7774	967.5402	967.5451	-4.99	0	(50)	0.00041	1	R.LGPLVEQGR.Q
<input checked="" type="checkbox"/> <a href="#">153</a>	484.7776	967.5406	967.5451	-4.57	0	52	0.00027	1	R.LGPLVEQGR.Q
<input checked="" type="checkbox"/> <a href="#">155</a>	487.7528	973.4910	973.4828	8.42	1	46	0.0023	1	R.DAEDLQKR.L
<input checked="" type="checkbox"/> <a href="#">184</a>	510.2458	1018.4770	1018.4753	1.69	0	56	0.00017	1	R.LGADMEDLR.N
<input checked="" type="checkbox"/> <a href="#">185</a>	510.2510	1018.4874	1018.4753	11.9	0	(43)	0.0033	1	R.LGADMEDLR.N
<input checked="" type="checkbox"/> <a href="#">187</a>	510.2557	1018.4968	1018.4906	6.16	0	15	2.6	1	R.QWANLMEK.I
<input checked="" type="checkbox"/> <a href="#">238</a>	538.2985	1074.5824	1074.5822	0.26	0	(40)	0.0082	1	R.LQAEIFQAR.L
<input checked="" type="checkbox"/> <a href="#">239</a>	538.2990	1074.5834	1074.5822	1.19	0	52	0.00055	1	R.LQAEIFQAR.L
<input checked="" type="checkbox"/> <a href="#">240</a>	538.3007	1074.5868	1074.5822	4.35	0	(36)	0.021	1	R.LQAEIFQAR.L
<input checked="" type="checkbox"/> <a href="#">287</a>	581.7828	1161.5510	1161.5448	5.38	0	(42)	0.0051	1	K.MEEQTQAIR.L
<input checked="" type="checkbox"/> <a href="#">288</a>	581.7836	1161.5526	1161.5448	6.76	0	(42)	0.0053	1	K.MEEQTQAIR.L
<input checked="" type="checkbox"/> <a href="#">289</a>	581.7837	1161.5528	1161.5448	6.93	0	(24)	0.3	1	K.MEEQTQAIR.L
<input checked="" type="checkbox"/> <a href="#">290</a>	581.7856	1161.5566	1161.5448	10.2	0	49	0.001	1	K.MEEQTQAIR.L
<input checked="" type="checkbox"/> <a href="#">479</a>	800.4014	1598.7882	1598.7787	5.94	0	63	2.9e-005	1	K.ELEEQLGPVAETR.A
<input checked="" type="checkbox"/> <a href="#">480</a>	800.4103	1598.8060	1598.7787	17.1	0	(54)	0.00027	1	K.ELEEQLGPVAETR.A
<input checked="" type="checkbox"/> <a href="#">573</a>	997.5337	1993.0528	1993.0480	2.43	0	25	0.14	1	K.IQASVATNPIITPVAQENQ.-
<input checked="" type="checkbox"/> <a href="#">702</a>	1308.9537	3923.8393	3923.8656	-6.72	0	32	0.01	1	R.WVQTLSDQVQELQSSQVTQELTALMEDMTTEVK.A
<input checked="" type="checkbox"/> <a href="#">705</a>	1308.9666	3923.8780	3923.8656	3.15	0	(10)	1.8	1	R.WVQTLSDQVQELQSSQVTQELTALMEDMTTEVK.A

8. [IPI00112251](#) Mass: 50842 Score: 198 Queries matched: 12 emPAI: 0.29

Tax\_Id=10090 Gene\_Symbol=Tubb3 Tubulin beta-3 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
<a href="#">273</a>	572.3212	1142.6278	1142.6270	0.72	0	42	0.0049	1	K.LAVNMVFFPR.L
<a href="#">317</a>	615.2972	1228.5798	1228.5910	-9.10	0	1	43	2	R.ISEQFTAMFR.R
<a href="#">364</a>	660.3562	1318.6978	1318.6955	1.77	0	85	2.5e-007	1	R.IMNTFVSVVPSK.V
<a href="#">365</a>	660.3578	1318.7010	1318.6955	4.20	0	(84)	2.7e-007	1	R.IMNTFVSVVPSK.V
<input checked="" type="checkbox"/> <a href="#">486</a>	808.4135	1614.8124	1614.8287	-10.07	0	(41)	0.0062	1	R.AILVDLEPGTMSVR.S
<input checked="" type="checkbox"/> <a href="#">487</a>	808.4182	1614.8218	1614.8287	-4.25	0	(35)	0.026	1	R.AILVDLEPGTMSVR.S
<input checked="" type="checkbox"/> <a href="#">488</a>	808.4218	1614.8290	1614.8287	0.21	0	71	6.3e-006	1	R.AILVDLEPGTMSVR.S
<input checked="" type="checkbox"/> <a href="#">497</a>	816.4215	1630.8284	1630.8236	2.96	0	(31)	0.059	1	R.AILVDLEPGTMSVR.S + Oxidation (M)
<a href="#">532</a>	846.4391	1690.8636	1690.8600	2.16	0	(20)	0.66	1	R.ALTVPQLTQMFDAK.N
<a href="#">533</a>	846.4404	1690.8662	1690.8600	3.69	0	40	0.0061	1	R.ALTVPQLTQMFDAK.N
<a href="#">534</a>	848.9236	1695.8326	1695.8257	4.12	0	15	2.1	1	K.NSSYFVWILPNNVK.V
<a href="#">537</a>	854.4365	1706.8584	1706.8549	2.07	0	(30)	0.064	2	R.ALTVPQLTQMFDAK.N + Oxidation (M)

9. [IPI00110850](#) Mass: 42052 Score: 175 Queries matched: 9 emPAI: 0.35

Tax\_Id=10090 Gene\_Symbol=Actb Actin, cytoplasmic 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"/> <a href="#">285</a>	581.3162	1160.6178	1160.6111	5.83	0	(27)	0.17	1	K.EITALAPSTMK.I
<input checked="" type="checkbox"/> <a href="#">286</a>	581.3204	1160.6262	1160.6111	13.1	0	36	0.018	1	K.EITALAPSTMK.I
<input checked="" type="checkbox"/> <a href="#">307</a>	599.7695	1197.5244	1197.5150	7.93	0	41	0.0029	1	K.DSYVGDQAQSK.R
<input checked="" type="checkbox"/> <a href="#">550</a>	895.9509	1789.8872	1789.8846	1.46	0	85	2e-007	1	K.SYELPDGQVITIGNER.F
<input checked="" type="checkbox"/> <a href="#">551</a>	895.9536	1789.8926	1789.8846	4.48	0	(73)	3.1e-006	1	K.SYELPDGQVITIGNER.F
<input checked="" type="checkbox"/> <a href="#">566</a>	652.0146	1953.0220	1953.0571	-17.99	0	(34)	0.019	1	R.VAPEEHPVLLTEAPLNPK.A
<input checked="" type="checkbox"/> <a href="#">567</a>	652.0152	1953.0238	1953.0571	-17.06	0	52	0.00028	1	R.VAPEEHPVLLTEAPLNPK.A
<input checked="" type="checkbox"/> <a href="#">568</a>	652.0201	1953.0385	1953.0571	-9.54	0	(32)	0.028	1	R.VAPEEHPVLLTEAPLNPK.A
<input checked="" type="checkbox"/> <a href="#">569</a>	652.0240	1953.0502	1953.0571	-3.55	0	(38)	0.0068	1	R.VAPEEHPVLLTEAPLNPK.A

## Proteins matching the same set of peptides:

[IPI00136929](#) Mass: 44029 Score: 175 Queries matched: 9

Tax\_Id=10090 Gene\_Symbol=Actg1 Gamma actin-like protein

[IPI00473320](#) Mass: 42115 Score: 175 Queries matched: 9

Tax\_Id=10090 Gene\_Symbol=Actb Putative uncharacterized protein  
[IPI00652436](#) Mass: 42053 Score: 175 Queries matched: 9  
 Tax\_Id=10090 Gene\_Symbol=Actg1 Putative uncharacterized protein  
[IPI00874482](#) Mass: 42108 Score: 175 Queries matched: 9  
 Tax\_Id=10090 Gene\_Symbol=Actg1 Actin, cytoplasmic 2

10. [IPI00109061](#) Mass: 50377 Score: 175 Queries matched: 10 emPAI: 0.29  
 Tax\_Id=10090 Gene\_Symbol=Tubb2b Tubulin beta-2B 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
<a href="#">273</a>	572.3212	1142.6278	1142.6270	0.72	0	42	0.0049	1	K.LAVNMVPPFR.L
<a href="#">317</a>	615.2972	1228.5798	1228.5910	-9.10	0	1		43	R.ISEQFTAMFR.R
<input checked="" type="checkbox"/> <a href="#">397</a>	676.3429	1350.6712	1350.6676	2.72	0	(67)	1.4e-005	1	R.IMNTFSVMPSPK.V
<input checked="" type="checkbox"/> <a href="#">398</a>	676.3460	1350.6774	1350.6676	7.31	0	79	1e-006	1	R.IMNTFSVMPSPK.V
<a href="#">486</a>	808.4135	1614.8124	1614.8287	-10.07	0	(41)	0.0062	1	R.AILVDLEPGTMDSVR.S
<a href="#">487</a>	808.4182	1614.8218	1614.8287	-4.25	0	(35)	0.026	1	R.AILVDLEPGTMDSVR.S
<a href="#">488</a>	808.4218	1614.8290	1614.8287	0.21	0	71	6.3e-006	1	R.AILVDLEPGTMDSVR.S
<a href="#">497</a>	816.4215	1630.8284	1630.8236	2.96	0	(31)	0.059	1	R.AILVDLEPGTMDSVR.S + Oxidation (M)
<a href="#">534</a>	848.9236	1695.8326	1695.8257	4.12	0	15	2.1	1	K.NSSYFVEWIPNNVK.T
<input checked="" type="checkbox"/> <a href="#">537</a>	854.4365	1706.8584	1706.8549	2.07	0	43	0.0034	1	R.ALTVPQLTQQMFDK.N

Proteins matching the same set of peptides:

[IPI00338039](#) Mass: 50274 Score: 175 Queries matched: 10  
 Tax\_Id=10090 Gene\_Symbol=Tubb2a Tubulin beta-2A chain

11. [IPI00122048](#) Mass: 113045 Score: 171 Queries matched: 5 emPAI: 0.09  
 Tax\_Id=10090 Gene\_Symbol=Atpla3 Sodium/potassium-transporting ATPase subunit alpha-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"/> <a href="#">318</a>	618.8549	1235.6952	1235.6986	-2.72	0	59	4.9e-005	1	R.LNIPVSVQVNP.R.D
<input checked="" type="checkbox"/> <a href="#">319</a>	618.8561	1235.6976	1235.6986	-0.78	0	(36)	0.011	1	R.LNIPVSVQVNP.R.D
<input checked="" type="checkbox"/> <a href="#">556</a>	906.4708	1810.9270	1810.9425	-8.54	0	(1)		51	R.QGAIIVAVTGDGVNDSPALK.K
<input checked="" type="checkbox"/> <a href="#">557</a>	906.4775	1810.9404	1810.9425	-1.14	0	70	6.2e-006	1	R.QGAIIVAVTGDGVNDSPALK.K
<input checked="" type="checkbox"/> <a href="#">560</a>	915.4684	1828.9222	1828.9167	3.06	0	96	1.3e-008	1	K.GVGIISGNETVEDIAR.L

Proteins matching the same set of peptides:

[IPI00420569](#) Mass: 113457 Score: 171 Queries matched: 5  
 Tax\_Id=10090 Gene\_Symbol=Atpla2 Sodium/potassium-transporting ATPase subunit alpha-2  
[IPI00752412](#) Mass: 117548 Score: 171 Queries matched: 5  
 Tax\_Id=10090 Gene\_Symbol=Atpla3 ATPase, Na+/K+ transporting, alpha 3 polypeptide, isoform CRA\_c  
[IPI00762871](#) Mass: 104717 Score: 171 Queries matched: 5  
 Tax\_Id=10090 Gene\_Symbol=Atpla2 Uncharacterized protein

12. [IPI00138892](#) Mass: 15004 Score: 170 Queries matched: 3 emPAI: 0.23  
 Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin-60S ribosomal protein L40

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"/> <a href="#">547</a>	894.4697	1786.9248	1786.9200	2.71	0	81	4.8e-007	1	K.TITLEVEPSDTIENVK.A
<input checked="" type="checkbox"/> <a href="#">548</a>	894.4703	1786.9260	1786.9200	3.38	0	(78)	9.9e-007	1	K.TITLEVEPSDTIENVK.A
<input checked="" type="checkbox"/> <a href="#">549</a>	894.4712	1786.9278	1786.9200	4.38	0	(73)	2.8e-006	1	K.TITLEVEPSDTIENVK.A

Proteins matching the same set of peptides:

[IPI00470152](#) Mass: 18282 Score: 170 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Rps27a Ubiquitin-40S ribosomal protein S27a  
[IPI00895319](#) Mass: 22277 Score: 170 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=2810422J05Rik 22 kDa protein  
[IPI00895479](#) Mass: 27181 Score: 170 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=2810422J05Rik 27 kDa protein  
[IPI00918763](#) Mass: 11021 Score: 170 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin subunit 1  
[IPI00750889](#) Mass: 22822 Score: 170 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Ubc Ubc protein  
[IPI00923013](#) Mass: 26603 Score: 170 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Ubb Ubiquitin B  
[IPI00923037](#) Mass: 22578 Score: 170 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Ubc Putative uncharacterized protein  
[IPI00139518](#) Mass: 34348 Score: 170 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Ubb Polyubiquitin-B  
[IPI00755916](#) Mass: 82614 Score: 170 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Ubc ubiquitin  
[IPI00969323](#) Mass: 82603 Score: 170 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Ubc Polyubiquitin-C

13. [IPI00120793](#) Mass: 28131 Score: 168 Queries matched: 14 emPAI: 0.40  
 Tax\_Id=10090 Gene\_Symbol=Prnp Major prion 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"/> <a href="#">242</a>	544.7363	1087.4580	1087.4570	0.94	0	43	0.0012	1	K.ESQAYDGR.R
<input checked="" type="checkbox"/> <a href="#">243</a>	544.7366	1087.4586	1087.4570	1.49	0	(37)	0.0045	1	K.ESQAYDGR.R
<input checked="" type="checkbox"/> <a href="#">244</a>	544.7393	1087.4640	1087.4570	6.45	0	(41)	0.0019	1	K.ESQAYDGR.R

<input checked="" type="checkbox"/>	<a href="#">245</a>	544.7401	1087.4656	1087.4570	7.92	0	(38)	0.0044	1	K.ESQAYYDGR.R
	<a href="#">246</a>	545.2651	1088.5156	1088.4999	14.4	0	4	22	4	R.YPGQSPGQNR.Y
<input checked="" type="checkbox"/>	<a href="#">268</a>	570.2647	1138.5148	1138.5142	0.54	0	(38)	0.008	1	K.GENFTETDVK.M
<input checked="" type="checkbox"/>	<a href="#">269</a>	570.2656	1138.5166	1138.5142	2.12	0	50	0.00044	1	K.GENFTETDVK.M
<input checked="" type="checkbox"/>	<a href="#">270</a>	570.2673	1138.5200	1138.5142	5.10	0	(46)	0.0011	1	K.GENFTETDVK.M
<input checked="" type="checkbox"/>	<a href="#">271</a>	570.2728	1138.5310	1138.5142	14.8	0	(44)	0.0022	1	K.GENFTETDVK.M
<input checked="" type="checkbox"/>	<a href="#">322</a>	622.7874	1243.5602	1243.5581	1.70	1	16	1.1	1	K.ESQAYYDGRR.S
<input checked="" type="checkbox"/>	<a href="#">325</a>	622.7895	1243.5644	1243.5581	5.08	1	(11)	3.5	1	K.ESQAYYDGRR.S
<input checked="" type="checkbox"/>	<a href="#">327</a>	622.7902	1243.5658	1243.5581	6.20	1	(4)	19	1	K.ESQAYYDGRR.S
<input checked="" type="checkbox"/>	<a href="#">328</a>	622.7919	1243.5692	1243.5581	8.94	1	(2)	34	2	K.ESQAYYDGRR.S
<input checked="" type="checkbox"/>	<a href="#">437</a>	756.8663	1511.7180	1511.7112	4.50	0	65	2.1e-005	1	R.VVEQMCVTQYQK.E

14. [IPI00122928](#) Mass: 50514 Score: 143 Queries matched: 7 emPAI: 0.21

Tax\_Id=10090 Gene\_Symbol=Tubb6 Tubulin beta-6 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
<a href="#">273</a>	572.3212	1142.6278	1142.6270	0.72	0	42	0.0049	1	K.LAVNMVPPFR.L
<a href="#">397</a>	676.3429	1350.6712	1350.6676	2.72	0	(67)	1.4e-005	1	R.IMNTFVMPSPK.V
<a href="#">398</a>	676.3460	1350.6774	1350.6676	7.31	0	79	1e-006	1	R.IMNTFVMPSPK.V
<a href="#">532</a>	846.4391	1690.8636	1690.8600	2.16	0	(20)	0.66	1	R.ALTVPELTQQMFDK.N
<a href="#">533</a>	846.4404	1690.8662	1690.8600	3.69	0	40	0.0061	1	R.ALTVPELTQQMFDK.N
<a href="#">534</a>	848.9236	1695.8326	1695.8257	4.12	0	15	2.1	1	K.NSSYFVEWIPNVK.V
<a href="#">537</a>	854.4365	1706.8584	1706.8549	2.07	0	(30)	0.064	2	R.ALTVPELTQQMFDK.N + Oxidation (M)

15. [IPI00225062](#) Mass: 285676 Score: 134 Queries matched: 4 emPAI: 0.03

Tax\_Id=10090 Gene\_Symbol=Srrm2 Isoform 3 of Serine/arginine repetitive matrix 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"/>	<a href="#">404</a>	691.3704	1380.7262	1380.7361	-7.15	0	30	0.069	1	R.TAVAPSAVNLDPR.T
<input checked="" type="checkbox"/>	<a href="#">405</a>	693.3643	1384.7140	1384.7133	0.57	0	64	3.2e-005	1	R.MAPALSGANLTSFR.V
<input checked="" type="checkbox"/>	<a href="#">411</a>	701.3675	1400.7204	1400.7259	-3.92	0	62	5.6e-005	1	R.TSAIPASVNLDSR.T
<input checked="" type="checkbox"/>	<a href="#">443</a>	759.4198	1516.8250	1516.8362	-7.34	0	67	1.1e-005	1	R.TPQAPTANLVVGR.S

## Proteins matching the same set of peptides:

[IPI00785240](#) Mass: 295356 Score: 134 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Srrm2 Isoform 1 of Serine/arginine repetitive matrix protein 2

[IPI00785384](#) Mass: 284043 Score: 134 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Srrm2 Isoform 2 of Serine/arginine repetitive matrix protein 2

[IPI00874854](#) Mass: 295521 Score: 134 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Srrm2 Srrm2 protein

16. [IPI00221528](#) Mass: 42319 Score: 133 Queries matched: 6 emPAI: 0.16

Tax\_Id=10090 Gene\_Symbol=Actb12 Beta-actin-like 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
<a href="#">550</a>	895.9509	1789.8872	1789.8846	1.46	0	85	2e-007	1	R.SYELPDGQVITIGNER.F
<a href="#">551</a>	895.9536	1789.8926	1789.8846	4.48	0	(73)	3.1e-006	1	R.SYELPDGQVITIGNER.F
<a href="#">566</a>	652.0146	1953.0220	1953.0571	-17.99	0	(33)	0.023	2	R.VAPDEHPILLTEAPLNPK.I
<a href="#">567</a>	652.0152	1953.0238	1953.0571	-17.06	0	39	0.0057	2	R.VAPDEHPILLTEAPLNPK.I
<a href="#">568</a>	652.0201	1953.0385	1953.0571	-9.54	0	(27)	0.098	2	R.VAPDEHPILLTEAPLNPK.I
<a href="#">569</a>	652.0240	1953.0502	1953.0571	-3.55	0	(36)	0.011	2	R.VAPDEHPILLTEAPLNPK.I

17. [IPI00404590](#) Mass: 19412 Score: 102 Queries matched: 10 emPAI: 0.38

Tax\_Id=10090 Gene\_Symbol=H1f0 Putative uncharacterized 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"/>	<a href="#">223</a>	530.7672	1059.5198	1059.5196	0.20	0	(7)	20	1	K.VGENADSQIK.L
<input checked="" type="checkbox"/>	<a href="#">225</a>	530.7692	1059.5238	1059.5196	3.97	0	(48)	0.0015	1	K.VGENADSQIK.L
<input checked="" type="checkbox"/>	<a href="#">226</a>	530.7695	1059.5244	1059.5196	4.54	0	(33)	0.049	1	K.VGENADSQIK.L
<input checked="" type="checkbox"/>	<a href="#">227</a>	530.7698	1059.5250	1059.5196	5.11	0	(26)	0.27	1	K.VGENADSQIK.L
<input checked="" type="checkbox"/>	<a href="#">228</a>	530.7698	1059.5250	1059.5196	5.11	0	(15)	3.6	1	K.VGENADSQIK.L
<input checked="" type="checkbox"/>	<a href="#">229</a>	530.7701	1059.5256	1059.5196	5.67	0	62	6.9e-005	1	K.VGENADSQIK.L
<input checked="" type="checkbox"/>	<a href="#">231</a>	530.7714	1059.5282	1059.5196	8.13	0	(22)	0.72	1	K.VGENADSQIK.L
<input checked="" type="checkbox"/>	<a href="#">232</a>	530.7786	1059.5426	1059.5196	21.7	0	(19)	1.4	1	K.VGENADSQIK.L
<input checked="" type="checkbox"/>	<a href="#">354</a>	651.3392	1300.6638	1300.6623	1.22	0	46	0.002	1	M.TENSTSAAPAKPK.R
<input checked="" type="checkbox"/>	<a href="#">418</a>	719.8656	1437.7166	1437.7173	-0.48	0	30	0.079	1	K.YSDMIVAAIQEK.N

## Proteins matching the same set of peptides:

[IPI00467914](#) Mass: 20848 Score: 102 Queries matched: 10  
Tax\_Id=10090 Gene\_Symbol=H1f0 Histone H1.0

18. [IPI00323357](#) Mass: 71055 Score: 79 Queries matched: 3 emPAI: 0.09

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"/>	<a href="#">356</a>	652.3232	1302.6318	1302.5914	31.1	0	48	0.0013	1	K.NSLESYAFNMK.A
<input checked="" type="checkbox"/>	<a href="#">490</a>	808.9067	1615.7988	1615.7804	11.4	0	14	2.7	1	K.SFYPEEVSSMLTK.M

[529](#) 825.4030 1648.7914 1648.7879 2.15 0 64 2.6e-005 1 K.NQVAMNPTNTVFDK.R

Proteins matching the same set of peptides:

[IPI00886297](#) Mass: 68964 Score: 79 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Hspa8 Hspa8 protein

19. [IPI00469012](#) Mass: 87791 Score: 76 Queries matched: 3 emPAI: 0.08  
Tax\_Id=10090 Gene\_Symbol=Tbc1d10b TBC1 domain family member 10B

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"/> <a href="#">267</a>	568.8079	1135.6012	1135.5986	2.34	0	50	0.00078	1 R.ASPVPGGTPTR.T
<input checked="" type="checkbox"/> <a href="#">561</a>	925.0280	1848.0414	1848.0356	3.14	0	(38)	0.0037	1 R.QQPLGPFSSLLSLPSLK.S
<input checked="" type="checkbox"/> <a href="#">562</a>	925.0283	1848.0420	1848.0356	3.46	0	47	0.00049	1 R.QQPLGPFSSLLSLPSLK.S

20. [IPI00223714](#) Mass: 21964 Score: 68 Queries matched: 2 emPAI: 0.15  
Tax\_Id=10090 Gene\_Symbol=Hist1hle Histone H1.4

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"/> <a href="#">314</a>	614.8428	1227.6710	1227.6711	-0.01	0	(46)	0.0018	1 K.TSGPPVSELITK.A
<input checked="" type="checkbox"/> <a href="#">315</a>	614.8445	1227.6744	1227.6711	2.75	0	60	6.8e-005	1 K.TSGPPVSELITK.A

21. [IPI00656325](#) Mass: 83131 Score: 67 Queries matched: 2 emPAI: 0.08  
Tax\_Id=10090 Gene\_Symbol=Nsf Vesicle-fusing 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"/> <a href="#">353</a>	646.3333	1290.6520	1290.6568	-3.68	0	40	0.0086	1 K.NFSGAELEGLVR.A
<input checked="" type="checkbox"/> <a href="#">425</a>	729.3958	1456.7770	1456.7773	-0.19	0	57	0.00012	1 R.VLDDGELLVQQT.K

Proteins matching the same set of peptides:

[IPI00876255](#) Mass: 83174 Score: 67 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Nsf 83 kDa protein

22. [IPI00377681](#) Mass: 42045 Score: 62 Queries matched: 1 emPAI: 0.08  
Tax\_Id=10090 Gene\_Symbol=N28178 Isoform 2 of Protein KIAA1045

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"/> <a href="#">399</a>	680.8234	1359.6322	1359.6266	4.15	0	62	3.5e-005	1 R.ALTDQEQAAR.Q

Proteins matching the same set of peptides:

[IPI00647986](#) Mass: 45936 Score: 62 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=N28178 Isoform 1 of Protein KIAA1045  
[IPI00885599](#) Mass: 29710 Score: 62 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=N28178 Novel protein

23. [IPI00122069](#) Mass: 79562 Score: 61 Queries matched: 1 emPAI: 0.04  
Tax\_Id=10090 Gene\_Symbol=Prkcc Protein kinase C gamma 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"/> <a href="#">308</a>	599.8120	1197.6094	1197.5990	8.75	0	61	5.4e-005	1 R.LGSGPDGEPTIR.A

24. [IPI00136703](#) Mass: 42971 Score: 56 Queries matched: 3 emPAI: 0.08  
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
<a href="#">191</a>	516.2849	1030.5552	1030.5481	6.96	0	8	17	2 K.LLIEMEQR.L
<input checked="" type="checkbox"/> <a href="#">363</a>	652.3676	1302.7206	1302.7183	1.78	0	56	0.00016	1 K.VLTPELYAELR.A
<input checked="" type="checkbox"/> <a href="#">530</a>	828.9172	1655.8198	1655.8188	0.60	0	30	0.059	1 R.LEQQQAIDDLMPAQK.-

25. [IPI00347110](#) Mass: 59502 Score: 50 Queries matched: 1 emPAI: 0.06  
Tax\_Id=10090 Gene\_Symbol=Krt73 Keratin, type II cytoskeletal 73

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"/> <a href="#">434</a>	738.3943	1474.7740	1474.7780	-2.67	0	50	0.00071	1 R.FLEQQNQVLQTK.W

Proteins matching the same set of peptides:

[IPI00420970](#) Mass: 55340 Score: 50 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Krt74 Keratin, type II cytoskeletal 74  
[IPI00462140](#) Mass: 61379 Score: 50 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Krt77 Keratin, type II cytoskeletal 1b  
[IPI00468956](#) Mass: 57860 Score: 50 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Krt71 Keratin, type II cytoskeletal 71  
[IPI00625729](#) Mass: 66079 Score: 50 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Krt1 Keratin, type II cytoskeletal 1

26. [IPI00403219](#) Score: 46 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Gml14496 Novel vomeronasal 2, receptor family 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      |
|---------------------|----------|----------|----------|------|------|-------|--------|------|--------------|
| <a href="#">155</a> | 487.7528 | 973.4910 | 973.4617 | 30.1 | 0    | 46    | 0.0023 | 1    | R.WEDLGAQR.I |
- 
27. [IPI00119853](#) Score: 44 Queries matched: 5  
Tax\_Id=10090 Gene\_Symbol=Gnas Isoform Gnas-1 of Guanine nucleotide-binding protein G(s) subunit alpha isoforms short  
 Check to include this hit in error tolerant search or archive report
- | Query               | Observed | Mr(expt)  | Mr(calc)  | ppm    | Miss | Score | Expect | Rank | Peptide         |
|---------------------|----------|-----------|-----------|--------|------|-------|--------|------|-----------------|
| <a href="#">203</a> | 529.3122 | 1056.6098 | 1056.6179 | -7.61  | 0    | (18)  | 0.98   | 1    | R.LLLLGAGESGK.S |
| <a href="#">204</a> | 529.3124 | 1056.6102 | 1056.6179 | -7.23  | 0    | 44    | 0.0026 | 1    | R.LLLLGAGESGK.S |
| <a href="#">238</a> | 538.2985 | 1074.5824 | 1074.6073 | -23.14 | 0    | (9)   | 11     | 8    | R.LQEALNLFK.S   |
| <a href="#">239</a> | 538.2990 | 1074.5834 | 1074.6073 | -22.21 | 0    | 21    | 0.64   | 2    | R.LQEALNLFK.S   |
| <a href="#">240</a> | 538.3007 | 1074.5868 | 1074.6073 | -19.05 | 0    | (11)  | 6.8    | 2    | R.LQEALNLFK.S   |
- Proteins matching the same set of peptides:  
[IPI00463891](#) Score: 44 Queries matched: 5  
[IPI00750570](#) Score: 44 Queries matched: 5  
[IPI00416906](#) Score: 44 Queries matched: 5  
[IPI00469793](#) Score: 44 Queries matched: 5
- 
28. [IPI00347770](#) Score: 44 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Gnat3 Guanine nucleotide-binding protein G(t) subunit alpha-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         |
|---------------------|----------|-----------|-----------|-------|------|-------|--------|------|-----------------|
| <a href="#">203</a> | 529.3122 | 1056.6098 | 1056.6179 | -7.61 | 0    | (18)  | 0.98   | 1    | K.LLLLGAGESGK.S |
| <a href="#">204</a> | 529.3124 | 1056.6102 | 1056.6179 | -7.23 | 0    | 44    | 0.0026 | 1    | K.LLLLGAGESGK.S |
| <a href="#">221</a> | 530.3175 | 1058.6204 | 1058.5873 | 31.4  | 1    | 10    | 4.6    | 4    | K.IIHKNGYSK.Q   |
- 
29. [IPI00118569](#) Mass: 44369 Score: 44 Queries matched: 4 emPAI: 0.07  
Tax\_Id=10090 Gene\_Symbol=Gna13 Guanine nucleotide-binding protein subunit alpha-13  
 Check to include this hit in error tolerant search or archive report
- | Query               | Observed | Mr(expt)  | Mr(calc)  | ppm   | Miss | Score | Expect | Rank | Peptide          |
|---------------------|----------|-----------|-----------|-------|------|-------|--------|------|------------------|
| <a href="#">203</a> | 529.3122 | 1056.6098 | 1056.6179 | -7.61 | 0    | (18)  | 0.98   | 1    | K.ILLLGAGESGK.S  |
| <a href="#">204</a> | 529.3124 | 1056.6102 | 1056.6179 | -7.23 | 0    | 44    | 0.0026 | 1    | K.ILLLGAGESGK.S  |
| <a href="#">335</a> | 631.3046 | 1260.5946 | 1260.5955 | -0.64 | 0    | 3     | 34     | 7    | R.APMAAQGMVETR.V |
| <a href="#">340</a> | 631.3057 | 1260.5968 | 1260.5955 | 1.10  | 0    | (3)   | 35     | 6    | R.APMAAQGMVETR.V |
- Proteins matching the same set of peptides:  
[IPI00649388](#) Mass: 20095 Score: 44 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Gna13 Putative uncharacterized protein
- 
30. [IPI00123176](#) Mass: 36804 Score: 43 Queries matched: 2 emPAI: 0.09  
Tax\_Id=10090 Gene\_Symbol=Gm6316 Glyceraldehyde-3-phosphate dehydrogenase  
 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"/> <a href="#">401</a> | 685.3772 | 1368.7398 | 1368.7361 | 2.74 | 0    | (26)  | 0.13   | 1    | R.GAAQNIIPASTGAAK.A |
| <input checked="" type="checkbox"/> <a href="#">402</a> | 685.3792 | 1368.7438 | 1368.7361 | 5.66 | 0    | 43    | 0.0027 | 1    | R.GAAQNIIPASTGAAK.A |
- Proteins matching the same set of peptides:  
[IPI00135284](#) Mass: 36092 Score: 43 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Gml6374 Glyceraldehyde-3-phosphate dehydrogenase  
[IPI00229201](#) Mass: 16676 Score: 43 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=3000002C10Rik Putative uncharacterized protein  
[IPI00271869](#) Mass: 36293 Score: 43 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00273646](#) Mass: 36072 Score: 43 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Gapdh;LOC100042025 Glyceraldehyde-3-phosphate dehydrogenase  
[IPI00622795](#) Mass: 36074 Score: 43 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00625893](#) Mass: 36205 Score: 43 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Gm6981 Glyceraldehyde-3-phosphate dehydrogenase  
[IPI00752289](#) Mass: 36308 Score: 43 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Gml0290 Glyceraldehyde-3-phosphate dehydrogenase  
[IPI00848801](#) Mass: 36100 Score: 43 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00849045](#) Mass: 36072 Score: 43 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00850337](#) Mass: 44633 Score: 43 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=LOC100048117 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1  
[IPI00850377](#) Mass: 35975 Score: 43 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00850779](#) Mass: 36076 Score: 43 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00874682](#) Mass: 36038 Score: 43 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00874964](#) Mass: 36512 Score: 43 Queries matched: 2



Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein

31. [IPI00348094](#) Mass: 51093 Score: 42 Queries matched: 3 emPAI: 0.06

Tax\_Id=10090 Gene\_Symbol=Tubbl Tubulin, 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
<a href="#">273</a>	572.3212	1142.6278	1142.6270	0.72	0	42	0.0049	1	K.LAVNMVFFPR.L
<a href="#">364</a>	660.3562	1318.6978	1318.6955	1.78	0	10	7.7	2	R.ILNSFSVMPSPK.V
<a href="#">365</a>	660.3578	1318.7010	1318.6955	4.21	0	(10)	7.9	2	R.ILNSFSVMPSPK.V

32. [IPI00116074](#) Mass: 86151 Score: 40 Queries matched: 1 emPAI: 0.04

Tax\_Id=10090 Gene\_Symbol=Aco2 Aconitase hydratase, 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"/> <a href="#">428</a>	732.3771	1462.7396	1462.7416	-1.34	0	40	0.009	1	K.SQFTITPGEQIR.A

33. [IPI00119063](#) Mass: 523342 Score: 37 Queries matched: 3 emPAI: 0.01

Tax\_Id=10090 Gene\_Symbol=Lrp1 Prolow-density lipoprotein receptor-related 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
<a href="#">152</a>	484.7774	967.5402	967.4975	44.2	0	(5)	15	5	R.GIPLDPNDK.S
<a href="#">153</a>	484.7776	967.5406	967.4975	44.6	0	9	5.4	3	R.GIPLDPNDK.S
<input checked="" type="checkbox"/> <a href="#">333</a>	626.3710	1250.7274	1250.7347	-5.78	0	37	0.0059	1	R.GVAGAPPTVTLR.S

Peptide matches not assigned to protein hits: (no details means no match)

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> <a href="#">407</a>	696.3701	1390.7256	1390.7245	0.82	0	30	0.064	1	LEGVVFPYQPSR
<input checked="" type="checkbox"/> <a href="#">196</a>	523.2819	1044.5492	1044.5564	-6.80	0	29	0.12	1	INDITLNSR
<input checked="" type="checkbox"/> <a href="#">154</a>	487.3037	972.5928	972.5505	43.6	1	29	0.045	1	VRDFLAPR
<input checked="" type="checkbox"/> <a href="#">195</a>	520.2805	1038.5464	1038.5458	0.65	0	28	0.1	1	AQASAPAQAPK
<input checked="" type="checkbox"/> <a href="#">309</a>	599.8347	1197.6548	1197.6605	-4.71	0	27	0.12	1	ASGPPVSELITK
<input checked="" type="checkbox"/> <a href="#">368</a>	669.3201	1336.6256	1336.6187	5.22	0	27	0.13	1	YALYDATYETK
<input checked="" type="checkbox"/> <a href="#">558</a>	912.9982	1823.9818	1823.9782	2.02	0	22	0.24	1	VGINYPPTVPPGGDLAK
<input checked="" type="checkbox"/> <a href="#">25</a>	531.3553	530.3480	530.3428	9.90	0	20	0.74	1	ILASK
<input checked="" type="checkbox"/> <a href="#">419</a>	720.3734	1438.7322	1438.7344	-1.48	0	19	0.76	1	YITPDQLADLYK
<input checked="" type="checkbox"/> <a href="#">63</a>	408.2385	814.4624	814.4661	-4.48	1	19	1.2	1	GTVAPSKR
<input checked="" type="checkbox"/> <a href="#">606</a>	737.7026	2210.0860	2210.0307	25.0	1	19	0.66	1	GLMVLQSIASRGCDTQDSEK + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">78</a>	421.7573	841.5000	841.4810	22.6	0	19	0.75	1	LGTWLPR
<input checked="" type="checkbox"/> <a href="#">32</a>	590.3131	589.3058	589.3006	8.87	0	18	2.1	1	ANMVR
<input checked="" type="checkbox"/> <a href="#">130</a>	464.7809	927.5472	927.5502	-3.15	1	18	0.88	1	GITTVPGKR
<input checked="" type="checkbox"/> <a href="#">143</a>	470.7710	939.5274	939.5614	-36.11	1	18	0.7	1	NRLPIATR
<input checked="" type="checkbox"/> <a href="#">313</a>	614.3115	1226.6084	1226.6448	-29.61	0	18	0.91	1	IYYHVVITR
<input checked="" type="checkbox"/> <a href="#">194</a>	520.2767	1038.5388	1038.5458	-6.67	0	18	1.1	1	AQASAPAQAPK
<input checked="" type="checkbox"/> <a href="#">496</a>	812.9454	1623.8762	1623.8832	-4.28	0	17	0.91	1	TGAIVDVVPVEELLGR
<input checked="" type="checkbox"/> <a href="#">190</a>	514.7952	1027.5758	1027.5774	-1.55	1	17	1.4	1	VAGSGKSPAVR
<input checked="" type="checkbox"/> <a href="#">151</a>	481.7329	961.4512	961.4586	-7.62	1	16	1.9	1	RQAMPGMR + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">52</a>	385.7109	769.4072	769.4446	-48.56	1	15	1.5	1	LEPKQR
<input checked="" type="checkbox"/> <a href="#">27</a>	531.3663	530.3590	530.3428	30.6	0	15	0.67	1	ILASK
<input checked="" type="checkbox"/> <a href="#">26</a>	531.3587	530.3514	530.3428	16.3	0	15	2.6	1	ILASK
<input checked="" type="checkbox"/> <a href="#">80</a>	428.7653	855.5160	855.5112	5.61	1	15	1.7	1	ALRMLPR
<input checked="" type="checkbox"/> <a href="#">28</a>	531.3701	530.3628	530.3428	37.8	0	14	0.78	1	ILASK
<input checked="" type="checkbox"/> <a href="#">84</a>	435.7735	869.5324	869.4971	40.7	0	14	1.5	1	AVVESLPR
<input checked="" type="checkbox"/> <a href="#">221</a>	530.3175	1058.6204	1058.6488	-26.77	1	14	1.9	1	KFLILNPSK
<input checked="" type="checkbox"/> <a href="#">72</a>	415.1994	828.3842	828.4202	-43.39	1	14	1.7	1	ARGESPR
<input checked="" type="checkbox"/> <a href="#">246</a>	545.2651	1088.5156	1088.5098	5.38	0	13	3.4	1	EESADVNLGR
<input checked="" type="checkbox"/> <a href="#">205</a>	530.2988	1058.5830	1058.5906	-7.15	1	13	4.6	1	MPTLKANIR + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">104</a>	450.7215	899.4284	899.4097	20.8	0	13	2.7	1	STEPHSR
<input checked="" type="checkbox"/> <a href="#">253</a>	556.8272	1111.6398	1111.5985	37.2	1	13	2.2	1	QQPKEALGNK
<input checked="" type="checkbox"/> <a href="#">76</a>	415.2051	828.3956	828.3838	14.3	1	12	2.6	1	NRDPDGR
<input checked="" type="checkbox"/> <a href="#">612</a>	756.0484	2265.1234	2265.0770	20.5	0	12	3.1	1	MTPAGTSLPTSWLICTSPSSR + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">640</a>	779.7223	2336.1451	2336.1617	-7.10	1	12	3	1	HMAAPLIGQLTRHEIEMTEK + 2 Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">255</a>	556.8319	1111.6492	1111.5986	45.6	0	12	2.3	1	IQENVVVGTR
<input checked="" type="checkbox"/> <a href="#">73</a>	415.2014	828.3882	828.4276	-47.50	0	12	2.6	1	IHGSMRLR + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">348</a>	643.3405	1284.6664	1284.6561	8.02	0	12	4.8	1	LLVVDPELTER
<input checked="" type="checkbox"/> <a href="#">115</a>	450.7243	899.4340	899.4726	-42.84	1	12	3.5	1	DGFHRLR
<input checked="" type="checkbox"/> <a href="#">150</a>	481.7226	961.4306	961.4730	-44.01	1	11	3.5	1	QDPGARYR
<input checked="" type="checkbox"/> <a href="#">189</a>	514.7838	1027.5530	1027.5927	-38.57	1	11	5.6	1	RLWPTLSR
<input checked="" type="checkbox"/> <a href="#">92</a>	450.7179	899.4212	899.4461	-27.62	0	11	3.3	1	GLTADFGNR
<input checked="" type="checkbox"/> <a href="#">86</a>	435.7745	869.5344	869.5123	25.5	0	11	3.1	1	VSLWLPR
<input checked="" type="checkbox"/> <a href="#">173</a>	506.2323	1010.4500	1010.4703	-20.02	0	11	3.2	1	GDTTTMLR + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">90</a>	450.7172	899.4198	899.4647	-49.87	0	11	3.5	1	SLQHMRLR + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">177</a>	506.2389	1010.4632	1010.4855	-22.01	0	11	4	1	NLMADYLR + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">141</a>	470.7696	939.5246	939.5614	-39.09	1	11	3.9	1	NRLPIATR
<input checked="" type="checkbox"/> <a href="#">66</a>	412.7505	823.4864	823.4817	5.80	0	11	2.2	1	RPWLPR
<input checked="" type="checkbox"/> <a href="#">594</a>	737.3668	2209.0786	2209.1491	-31.92	1	11	4.3	1	LGEHNIKVLGNEQFVNAAK
<input checked="" type="checkbox"/> <a href="#">230</a>	530.7705	1059.5264	1059.5495	-21.74	0	11	8.8	1	QALSNMLQR
<input checked="" type="checkbox"/> <a href="#">61</a>	407.2281	812.4416	812.4756	-41.75	1	10	5.1	1	AGPKALEK

79	428.7645	855.5144	855.4814	38.6	0	10	4.5	1	LGAETLPR
140	470.7692	939.5238	939.5137	10.8	0	10	4.6	1	NPEALAAVR
101	450.7208	899.4270	899.4322	-5.68	1	10	4.3	1	NRSSGSHR
100	450.7206	899.4266	899.4647	-42.31	0	10	4.5	1	SLQHMLR + Oxidation (M)
385	670.8940	1339.7734	1339.7506	17.0	1	10	3.5	1	AERPILGAMARR
142	470.7698	939.5250	939.5515	-28.14	1	10	4.5	1	LRPGWRR
295	595.3065	1188.5984	1188.6033	-4.10	1	10	7.9	1	QMQRSLSPR + Oxidation (M)
70	414.2204	826.4262	826.4661	-48.20	0	10	5.4	1	VAAPNLSR
107	450.7224	899.4302	899.4647	-38.31	0	10	4.9	1	SLQHMLR + Oxidation (M)
75	415.2028	828.3910	828.4276	-44.12	0	10	4	1	IHGSMRLR + Oxidation (M)
191	516.2849	1030.5552	1030.5923	-36.00	0	10	11	1	LLIFQNR
91	450.7173	899.4200	899.4322	-13.47	1	10	4.3	1	NRSSGSHR
176	506.2365	1010.4584	1010.4314	26.8	0	10	4.7	1	ACMDYPVR
171	506.2305	1010.4464	1010.4781	-31.33	0	10	4.2	1	DLLHNEDR
56	810.4305	809.4232	809.4139	11.5	1	10	6.3	1	KMQMLK + 2 Oxidation (M)
19	503.2858	502.2785	502.2863	-15.54	0	9	24	1	AGSIR
85	435.7742	869.5338	869.5123	24.8	0	9	4.6	1	VSLWLPR
102	450.7211	899.4276	899.4322	-5.02	1	9	5.8	1	NRSSGSHR
89	450.7172	899.4198	899.4209	-1.22	0	9	5	1	TQQGSSHR
693	961.4171	2881.2295	2881.2557	-9.10	1	9	2.2	1	AVSAFQSMGGSMFQCSWQHRFMAK + Oxidation (M)
98	450.7204	899.4262	899.4324	-6.79	0	9	5.4	1	FMFNGLR + Oxidation (M)
103	450.7213	899.4280	899.4322	-4.57	1	9	6	1	NRSSGSHR
283	578.8117	1155.6088	1155.6108	-1.72	1	9	9.3	1	QQQEQALRR
164	499.2584	996.5022	996.5062	-3.99	0	9	9.1	1	KPMSSYLK + Oxidation (M)
35	616.3713	615.3640	615.3592	7.90	0	9	25	1	ALSTPK
67	412.7511	823.4876	823.4817	7.25	0	9	3.7	1	RPWLPR
603	737.7007	2210.0803	2210.1843	-47.07	0	9	6.9	1	CGATSLMASTVLLLLLFSWK
477	795.3494	1588.6842	1588.6787	3.47	0	9	3.9	1	NNQDNTTNTDMPPK
36	628.3656	627.3583	627.3704	-19.24	1	9	7.5	1	EKVPR
621	762.0510	2283.1312	2283.1706	-17.28	1	8	6.8	1	ATSPSNNVDEVPQIPISLSKR
349	643.3462	1284.6778	1284.6357	32.8	1	8	10	1	GRAGVCDPALNR
641	783.7235	2348.1487	2348.1471	0.68	1	8	7.1	1	SFLIWNNEEDHTRVISMEK + Oxidation (M)
112	450.7238	899.4330	899.4647	-35.20	0	8	7.5	1	SLQHMLR + Oxidation (M)
346	636.8115	1271.6084	1271.6357	-21.44	0	8	8.3	1	LLDAESEDPRK
108	450.7229	899.4312	899.4647	-37.20	0	8	7.8	1	SLQHMLR + Oxidation (M)
111	450.7234	899.4322	899.4647	-36.09	0	8	7.8	1	SLQHMLR + Oxidation (M)
403	458.9094	1373.7064	1373.7159	-6.94	0	8	13	1	KPALTMEVVCAR
97	450.7202	899.4258	899.4097	17.9	0	8	6.9	1	HVGGDTR
220	530.3162	1058.6178	1058.5972	19.5	0	8	8.1	1	VTASLLGSPSK
88	443.2438	884.4730	884.5080	-39.48	1	8	9.3	1	SPPKTTVR
148	477.2345	952.4544	952.4284	27.4	1	8	11	1	KSSEAMR + Oxidation (M)
658	888.7558	2663.2456	2663.2034	15.8	1	8	6.9	1	SGYFELPSTQDCARSNHQDPLGCK
237	538.2737	1074.5328	1074.5054	25.6	1	8	16	1	NSKEPGNSNR
74	415.2025	828.3904	828.4051	-17.71	0	8	6.9	1	YATIMSK + Oxidation (M)
625	762.0553	2283.1441	2283.1894	-19.87	0	7	8.3	1	EEVIDFSKPFMSLGISIMIK
691	933.7790	2798.3152	2798.3262	-3.94	1	7	6.5	1	NLGNPPNAVLCSQGRDPETMVQVR + Oxidation (M)
99	450.7206	899.4266	899.4647	-42.31	0	7	9	1	HITNLMR + Oxidation (M)
121	452.7405	903.4664	903.4774	-12.11	0	7	19	1	LGSSQVSR
259	557.7951	1113.5756	1113.5891	-12.05	1	7	16	1	SSPLRPGTSTR
224	530.7690	1059.5234	1059.5210	2.33	0	7	20	1	QEGHLPISR
247	545.2892	1088.5638	1088.5760	-11.18	1	7	18	1	RANNINMLK + Oxidation (M)
93	450.7189	899.4232	899.4573	-37.87	1	7	8.4	1	QSQPRR
294	595.3062	1188.5978	1188.6172	-16.31	0	7	16	1	MLISAASDIR + Oxidation (M)
60	406.2201	810.4256	810.4235	2.60	1	7	12	1	AQYSSKK
392	672.3433	1342.6720	1342.6364	26.5	1	7	15	1	ADAEBAATRIPA
655	888.7497	2663.2273	2663.1670	22.6	0	7	7.6	1	NLTITIGWNEDHNIIEQCQSGR
135	470.7658	939.5170	939.5614	-47.17	1	7	11	1	LPRASGALR
257	557.3074	1112.6002	1112.6342	-30.54	0	7	14	1	GLFLSNVVK
265	565.3054	1128.5962	1128.6139	-15.61	0	7	17	1	TLIEQIEQR
412	701.8926	1401.7706	1401.7715	-0.61	0	7	12	1	ATQPSLTELTLK
692	961.4110	2881.2112	2881.1807	10.6	1	7	3	1	NFSPDQSPFAREADEECYSTQMK + Oxidation (M)
522	816.8976	1631.7806	1631.7912	-6.46	1	7	13	1	MVNRENKPPCYPK
266	565.3197	1128.6248	1128.6503	-22.51	0	7	16	1	TKPVLSSLER
620	762.0505	2283.1297	2283.1190	4.67	1	7	10	1	KGTTNATATSTSTASTAVADAQK
622	762.0521	2283.1345	2283.1756	-17.99	1	7	10	1	GLVKVLFATETFAMGVNMPAR + 2 Oxidation (M)
166	500.2500	998.4854	998.5145	-29.08	1	6	14	1	KAEGAPNQGK
68	412.7528	823.4910	823.4817	11.4	0	6	6.5	1	RPWLPR
331	622.7954	1243.5762	1243.5721	3.37	0	6	13	1	GELYDYISER
685	933.4488	2797.3246	2797.3051	6.96	0	6	8.7	1	MATQNVPPPPYQDSPQMTATAQPPSK + Oxidation (M)
415	702.3759	1402.7372	1402.7061	22.2	0	6	16	1	MAGVGVPLQGMVR + 2 Oxidation (M)
179	506.2391	1010.4636	1010.4314	31.9	0	6	11	1	ACMDYPVR
110	450.7234	899.4322	899.4097	25.1	0	6	12	1	STEPSHR
114	450.7242	899.4338	899.4461	-13.61	0	6	12	1	QSSAPPTR
542	885.9581	1769.9016	1769.8505	28.9	1	6	15	1	EEPKEEESLSMPLPR
217	530.3068	1058.5990	1058.5608	36.2	1	6	17	1	KSTESVPPSK
607	737.7040	2210.0902	2210.0967	-2.97	0	6	13	1	LGEHNINVLGNEQFIDAAK
157	491.2421	980.4696	980.4233	47.3	0	6	19	1	AVSMDNSNK + Oxidation (M)
71	415.1973	828.3800	828.4202	-48.46	1	6	9.4	1	REQSPGR
144	470.7715	939.5284	939.5025	27.6	0	6	12	1	NPIVPTDGK
105	450.7220	899.4294	899.4726	-47.95	0	6	13	1	HRPSFTR
626	762.0572	2283.1498	2283.2370	-38.22	1	6	12	1	LMVMEIRNAYAVLYDIILK + Oxidation (M)

133	470.2356	938.4566	938.4471	10.2	0	6	17	1	QAYHHQR
369	670.3066	1338.5986	1338.6099	-8.39	0	6	12	1	NEGQPQGLMHGR + Oxidation (M)
222	530.7654	1059.5162	1059.5574	-38.81	1	6	26	1	AGSGLRWTGR
302	595.3110	1188.6074	1188.5921	12.9	1	6	23	1	MADAASVVGKR + Oxidation (M)
180	506.2392	1010.4638	1010.5033	-39.01	0	6	13	1	SSPVPNPNS
260	557.8024	1113.5902	1113.5414	43.8	0	6	22	1	DTNLNDLQGR
136	470.7668	939.5190	939.5614	-45.05	1	6	15	1	NRLPIATR
169	501.2503	1000.4860	1000.5302	-44.08	1	6	20	1	RLLVDDDR
145	470.7721	939.5296	939.5515	-23.24	1	5	13	1	LRPGWRR
138	470.7690	939.5234	939.4774	49.0	1	5	15	1	QAPKEPDR
182	506.2429	1010.4712	1010.5033	-31.68	0	5	15	1	SSPVPNPNS
248	545.2919	1088.5692	1088.5536	14.4	0	5	27	1	MGLEELLR
424	728.8551	1455.6956	1455.6664	20.1	0	5	17	1	AGAQQDPDVPECLK
279	573.7990	1145.5834	1145.5975	-12.28	1	5	26	1	AGDRVMVLRN + Oxidation (M)
321	622.7869	1243.5592	1243.5946	-28.39	0	5	13	1	SPTGASDHFLGR
219	530.3109	1058.6072	1058.5720	33.3	0	5	17	1	GSTLQDAVLR
442	506.2327	1515.6763	1515.7053	-19.14	0	5	12	1	LDTPATSDPLSEDR
310	600.2780	1198.5414	1198.5942	-44.03	0	5	12	1	GQPDVTQDALR
688	933.7679	2798.2819	2798.2851	-1.15	1	5	9.9	1	APNTMWSILSSLSSEVPSDDRTMR + 2 Oxidation (M)
316	615.2961	1228.5776	1228.6386	-49.63	1	5	17	1	AIYLSGYRMR
160	496.2260	990.4374	990.4487	-11.39	1	5	14	1	ASMSRHMR + Oxidation (M)
162	496.2284	990.4422	990.4487	-6.54	1	5	16	1	ASMSRHMR + Oxidation (M)
147	470.7730	939.5314	939.5250	6.87	1	5	14	1	IQTKASHR
576	688.3119	2061.9139	2061.9426	-13.92	1	5	11	1	SKGSQGTSPFFMSPSPDSR + Oxidation (M)
417	711.3622	1420.7098	1420.6947	10.7	0	5	22	1	AGDPGLQGPAGAPGEK
168	500.2616	998.5086	998.4716	37.1	0	5	23	1	HMEARPSR + Oxidation (M)
600	737.6983	2210.0731	2210.0637	4.23	1	5	16	1	LAVTSYNDIQDLMDSGNKAR
131	465.2120	928.4094	928.4147	-5.61	0	5	9	1	FMTEVVR + Oxidation (M)
134	470.7655	939.5164	939.5515	-37.29	1	5	19	1	LRPGWRR
139	470.7692	939.5238	939.5515	-29.41	1	5	17	1	LRPGWRR
345	634.3837	1266.7528	1266.7296	18.4	0	5	6.7	1	KPKPTNQVEVK
161	496.2276	990.4406	990.4479	-7.28	1	5	16	1	DQESRSNR
605	737.7022	2210.0848	2210.1167	-14.45	1	4	18	1	ALFASQEMWLSHRQTHLR
420	728.3528	1454.6910	1454.6572	23.3	1	4	22	1	QEMPQDPRAPDR + Oxidation (M)
234	532.2764	1062.5382	1062.5393	-0.95	1	4	33	1	MRSRAWAGR + Oxidation (M)
53	399.7266	797.4386	797.4548	-20.24	0	4	19	1	LPWLRN
326	622.7897	1243.5648	1243.5615	2.66	0	4	18	1	ETMPVHSQSGR + Oxidation (M)
423	728.8538	1455.6930	1455.6664	18.3	0	4	22	1	AGAQQDPDVPECLK
305	595.3142	1188.6138	1188.6033	8.85	1	4	33	1	SSGVGNCKKPR
94	450.7191	899.4236	899.4647	-45.65	0	4	17	1	SLQHMLR + Oxidation (M)
632	779.7067	2336.0983	2336.0559	18.1	0	4	17	1	DQSQAADMLCVVNNMEQLR + Oxidation (M)
159	492.2374	982.4602	982.4508	9.58	0	4	22	1	NTEGYPFR
656	888.7521	2663.2345	2663.1412	35.0	1	4	17	1	EFAPSDEELDSYRHGEWDPQK
521	816.8972	1631.7798	1631.8017	-13.42	1	4	28	1	MLFLESNNWFKK + Oxidation (M)
163	496.2305	990.4464	990.4671	-20.90	0	4	24	1	YNPASFHR
677	888.7624	2663.2654	2663.2796	-5.33	1	4	19	1	VSSEVQQMVALTEMIRASHTSTR + Oxidation (M)
312	612.3268	1222.6390	1222.5942	36.7	0	4	33	1	SQLQENTFTR
328	622.7919	1243.5692	1243.6091	-32.08	1	4	23	1	ELPRCAATGGGR
535	852.4255	1702.8364	1702.7688	39.7	1	3	29	1	SMSMSVGERVTLSCCK + 2 Oxidation (M)
624	762.0549	2283.1429	2283.1190	10.4	1	3	22	1	KGTTTNATATSTSTAVADAQK
109	450.7229	899.4312	899.4712	-44.44	0	3	25	1	DLSPIAER
416	711.3582	1420.7018	1420.6947	5.06	0	3	34	1	AGDPGLQGPAGAPGEK
514	816.8953	1631.7760	1631.7638	7.50	1	3	32	1	TENLDDEKLNNAK
181	506.2395	1010.4644	1010.4703	-5.77	0	3	26	1	GDTTMTMLR + Oxidation (M)
395	672.8402	1343.6658	1343.6681	-1.66	1	3	34	1	AQGDEQEAQLKK
116	450.7244	899.4342	899.4461	-13.18	0	3	26	1	GTPGQGLR
393	672.3479	1342.6812	1342.6551	19.5	0	3	40	1	MDVQATTPLDPR
47	732.3589	731.3516	731.3562	-6.26	0	3	50	1	DVSAANR
433	736.3515	1470.6884	1470.7566	-46.32	0	3	27	1	LGSTPISGASIDPEK
617	761.7278	2282.1616	2282.0559	46.3	0	3	25	1	VALLEQQMOMACTLDFENEK + Oxidation (M)
262	561.2590	1120.5034	1120.4958	6.84	0	3	32	1	MEDEIQDII + Oxidation (M)
391	672.3428	1342.6710	1342.6551	11.9	0	3	41	1	MDVQATTPLDPR
575	514.0181	2052.0433	2052.0211	10.8	0	3	27	1	NEMVAHIHELLVFGGSR + Oxidation (M)
552	897.9138	1793.8130	1793.8665	-29.80	0	3	27	1	VLCEALQHPGCNIQR
527	816.9020	1631.7894	1631.7905	-0.65	0	2	38	1	YECIFTLYPEGIK
306	595.3143	1188.6140	1188.6285	-12.14	1	2	47	1	KPATDGMVAVRK + Oxidation (M)
137	470.7682	939.5218	939.4886	35.4	1	2	30	1	TKHAGSPPR
263	561.2593	1120.5040	1120.5295	-22.71	0	2	34	1	MSLQQQSAR + Oxidation (M)
604	737.7008	2210.0806	2210.1405	-27.12	1	2	30	1	ALSMRLNVTTEQPYFIEAK
422	728.3561	1454.6976	1454.7188	-14.51	1	2	37	1	KRPDEVDPAGPMK + Oxidation (M)
106	450.7221	899.4296	899.4322	-2.79	1	2	29	1	NRSSGSHR
577	688.3141	2061.9205	2061.9426	-10.72	1	2	22	1	SKGSQGTSPFFMSPSPDSR + Oxidation (M)
235	536.7872	1071.5598	1071.5747	-13.84	1	2	72	1	KLVGATTVMH + Oxidation (M)
615	761.7188	2282.1346	2282.1623	-12.17	0	2	30	1	FPLDYYSIPFPTTTLTGR
394	672.8397	1343.6648	1343.6470	13.3	1	2	42	1	KTASYSPSGQR
167	500.2557	998.4968	998.4743	22.6	0	2	41	1	DSMFGISVK + Oxidation (M)
546	894.4644	1786.9142	1786.8849	16.4	0	2	42	1	TVSWLNEQLELGNR
559	912.9985	1823.9824	1823.9782	2.35	0	2	27	1	VGINYQPPTVPPGGDLAK
519	816.8969	1631.7792	1631.7937	-8.86	1	2	42	1	TEDGEGRAMITPALR + Oxidation (M)
627	762.0612	2283.1618	2283.1958	-14.88	0	2	29	1	AVEILADIQNSTLGEAEIER
317	615.2972	1228.5798	1228.6387	-47.88	1	2	40	1	AVRFSFTVMR + Oxidation (M)

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<input checked="" type="checkbox"/>	<a href="#">698</a>	972.0858	2913.2356	2913.3199	-28.95	1	1	11	1	NAFERGEDPLAGDQNDHMDSIAGVLK
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<input checked="" type="checkbox"/>	<a href="#">587</a>	701.6429	2101.9069
<input checked="" type="checkbox"/>	<a href="#">589</a>	707.3322	2118.9748
<input checked="" type="checkbox"/>	<a href="#">591</a>	1073.0271	2144.0396
<input checked="" type="checkbox"/>	<a href="#">592</a>	732.0169	2193.0289
<input checked="" type="checkbox"/>	<a href="#">593</a>	732.0259	2193.0559
<input checked="" type="checkbox"/>	<a href="#">595</a>	737.6949	2210.0629
<input checked="" type="checkbox"/>	<a href="#">596</a>	737.6956	2210.0650
<input checked="" type="checkbox"/>	<a href="#">598</a>	737.6977	2210.0713
<input checked="" type="checkbox"/>	<a href="#">601</a>	737.6991	2210.0755
<input checked="" type="checkbox"/>	<a href="#">602</a>	737.7005	2210.0797
<input checked="" type="checkbox"/>	<a href="#">608</a>	737.7048	2210.0926
<input checked="" type="checkbox"/>	<a href="#">609</a>	737.7054	2210.0944
<input checked="" type="checkbox"/>	<a href="#">611</a>	737.7095	2210.1067
<input checked="" type="checkbox"/>	<a href="#">613</a>	756.0691	2265.1855
<input checked="" type="checkbox"/>	<a href="#">616</a>	761.7196	2282.1370
<input checked="" type="checkbox"/>	<a href="#">619</a>	762.0505	2283.1297
<input checked="" type="checkbox"/>	<a href="#">623</a>	762.0542	2283.1408
<input checked="" type="checkbox"/>	<a href="#">628</a>	762.0628	2283.1666
<input checked="" type="checkbox"/>	<a href="#">629</a>	768.7164	2303.1274
<input checked="" type="checkbox"/>	<a href="#">630</a>	779.0418	2334.1036
<input checked="" type="checkbox"/>	<a href="#">631</a>	1168.5664	2335.1182
<input checked="" type="checkbox"/>	<a href="#">633</a>	779.7078	2336.1016
<input checked="" type="checkbox"/>	<a href="#">636</a>	779.7141	2336.1205
<input checked="" type="checkbox"/>	<a href="#">638</a>	779.7175	2336.1307
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<input checked="" type="checkbox"/>	<a href="#">642</a>	784.0617	2349.1633
<input checked="" type="checkbox"/>	<a href="#">654</a>	888.7457	2663.2153
<input checked="" type="checkbox"/>	<a href="#">673</a>	888.7603	2663.2591
<input checked="" type="checkbox"/>	<a href="#">678</a>	916.4274	2746.2604
<input checked="" type="checkbox"/>	<a href="#">679</a>	916.7508	2747.2306
<input checked="" type="checkbox"/>	<a href="#">680</a>	917.0808	2748.2206
<input checked="" type="checkbox"/>	<a href="#">681</a>	917.0816	2748.2230
<input checked="" type="checkbox"/>	<a href="#">682</a>	933.4417	2797.3033
<input checked="" type="checkbox"/>	<a href="#">683</a>	933.4421	2797.3045
<input checked="" type="checkbox"/>	<a href="#">684</a>	933.4461	2797.3165
<input checked="" type="checkbox"/>	<a href="#">686</a>	933.4491	2797.3255
<input checked="" type="checkbox"/>	<a href="#">687</a>	933.4591	2797.3555
<input checked="" type="checkbox"/>	<a href="#">689</a>	933.7738	2798.2996
<input checked="" type="checkbox"/>	<a href="#">690</a>	933.7778	2798.3116
<input checked="" type="checkbox"/>	<a href="#">694</a>	961.4198	2881.2376
<input checked="" type="checkbox"/>	<a href="#">695</a>	961.4268	2881.2586
<input checked="" type="checkbox"/>	<a href="#">696</a>	961.4318	2881.2736
<input checked="" type="checkbox"/>	<a href="#">697</a>	961.7681	2882.2825
<input checked="" type="checkbox"/>	<a href="#">699</a>	972.0930	2913.2572
<input checked="" type="checkbox"/>	<a href="#">700</a>	972.0975	2913.2707
<input checked="" type="checkbox"/>	<a href="#">701</a>	972.4227	2914.2463
<input checked="" type="checkbox"/>	<a href="#">703</a>	1308.9585	3923.8537
<input checked="" type="checkbox"/>	<a href="#">704</a>	981.9737	3923.8657
<input checked="" type="checkbox"/>	<a href="#">706</a>	1308.9722	3923.8948
<input checked="" type="checkbox"/>	<a href="#">707</a>	982.2178	3924.8421
<input checked="" type="checkbox"/>	<a href="#">708</a>	1314.2834	3939.8284
<input checked="" type="checkbox"/>	<a href="#">709</a>	1130.9587	4519.8057
<input checked="" type="checkbox"/>	<a href="#">710</a>	1308.8093	5231.2081

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### Search Parameters

Type of search : MS/MS Ion Search  
Enzyme : Trypsin  
Fixed modifications : Carbamidomethyl (C)  
Variable modifications : Oxidation (M)  
Mass values : Monoisotopic  
Protein Mass : Unrestricted  
Peptide Mass Tolerance :  $\pm 50$  ppm  
Fragment Mass Tolerance:  $\pm 0.2$  Da  
Max Missed Cleavages : 1  
Instrument type : ESI-QUAD-TOF  
Number of queries : 710

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



## Mascot Search Results

**User** : Dominic  
**Email** : dominic.kurian@bbsrc.ac.uk  
**Search title** : IPI Mouse\_15-02-2010  
**MS data file** : D:\Peaklist\Dominic Kurian\QToF\DK20010804 GATC P 0010882.pk1  
**Database** : IPI\_mouse MOUSE\_v3\_79 (54943 sequences; 24917557 residues)  
**Timestamp** : 15 Feb 2011 at 15:23:00 GMT  
**Protein hits** :

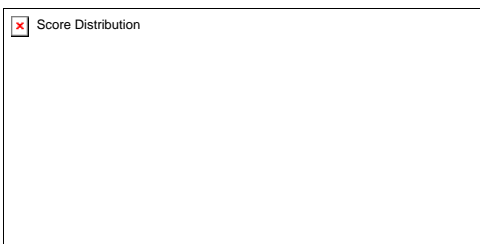
<a href="#">IPI00420725</a>	Tax_Id=10090	Gene_Symbol=Camk2a	Uncharacterized protein
<a href="#">IPI00474502</a>	Tax_Id=10090	Gene_Symbol=Camk2b	Calcium/calmodulin-dependent protein kinase type II subunit beta
<a href="#">IPI00109073</a>	Tax_Id=10090	Gene_Symbol=Tubb4	Tubulin beta-4 chain
<a href="#">IPI00169463</a>	Tax_Id=10090	Gene_Symbol=Tubb2c	Tubulin beta-2C chain
<a href="#">IPI00124695</a>	Tax_Id=10090	Gene_Symbol=Camk2g	Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit
<a href="#">IPI00117352</a>	Tax_Id=10090	Gene_Symbol=Tubb5	Tubulin beta-5 chain
<a href="#">IPI00109061</a>	Tax_Id=10090	Gene_Symbol=Tubb2b	Tubulin beta-2B chain
<a href="#">IPI00112251</a>	Tax_Id=10090	Gene_Symbol=Tubb3	Tubulin beta-3 chain
<a href="#">IPI00755181</a>	Tax_Id=10090	Gene_Symbol=Krt10	keratin, type I cytoskeletal 10
<a href="#">IPI00110753</a>	Tax_Id=10090	Gene_Symbol=Tubala	Tubulin alpha-1A chain
<a href="#">IPI00112584</a>	Tax_Id=10090	Gene_Symbol=Camk2d	Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit
<a href="#">IPI00608020</a>	Tax_Id=10090	Gene_Symbol=Ftl1	ferritin light chain 1
<a href="#">IPI00122928</a>	Tax_Id=10090	Gene_Symbol=Tubb6	Tubulin beta-6 chain
<a href="#">IPI00347110</a>	Tax_Id=10090	Gene_Symbol=Krt73	Keratin, type II cytoskeletal 73
<a href="#">IPI00122048</a>	Tax_Id=10090	Gene_Symbol=Atpla3	Sodium/potassium-transporting ATPase subunit alpha-3
<a href="#">IPI00138892</a>	Tax_Id=10090	Gene_Symbol=Uba52	Ubiquitin-60S ribosomal protein L40
<a href="#">IPI00625729</a>	Tax_Id=10090	Gene_Symbol=Krt1	Keratin, type II cytoskeletal 1
<a href="#">IPI00136703</a>	Tax_Id=10090	Gene_Symbol=Ckb	Creatine kinase B-type
<a href="#">IPI00110850</a>	Tax_Id=10090	Gene_Symbol=Actb	Actin, cytoplasmic 1
<a href="#">IPI00221797</a>	Tax_Id=10090	Gene_Symbol=Krt75	Keratin, type II cytoskeletal 75
<a href="#">IPI00348328</a>	Tax_Id=10090	Gene_Symbol=Krt78	keratin Kb40
<a href="#">IPI00322209</a>	Tax_Id=10090	Gene_Symbol=Krt8	Keratin, type II cytoskeletal 8
<a href="#">IPI00221528</a>	Tax_Id=10090	Gene_Symbol=Actb12	Beta-actin-like protein 2
<a href="#">IPI00124499</a>	Tax_Id=10090	Gene_Symbol=Krt79	Keratin, type II cytoskeletal 79
<a href="#">IPI00230145</a>	Tax_Id=10090	Gene_Symbol=Fth1	Ferritin heavy chain
<a href="#">IPI00406377</a>	Tax_Id=10090	Gene_Symbol=Krt7	Keratin, type II cytoskeletal 7
<a href="#">IPI00222228</a>	Tax_Id=10090	Gene_Symbol=4732456N10Rik	hypothetical protein LOC239673
<a href="#">IPI00135284</a>	Tax_Id=10090	Gene_Symbol=Gml6374	Glyceraldehyde-3-phosphate dehydrogenase
<a href="#">IPI00134997</a>	Tax_Id=10090	Gene_Symbol=Dlgap3	Disks large-associated protein 3
<a href="#">IPI00348094</a>	Tax_Id=10090	Gene_Symbol=Tubb1	Tubulin, beta 1
<a href="#">IPI00115546</a>	Tax_Id=10090	Gene_Symbol=Gnao1	Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) subunit alpha
<a href="#">IPI00122094</a>	Tax_Id=10090	Gene_Symbol=Dlg4	Isoform 2 of Disks large homolog 4
<a href="#">IPI00119667</a>	Tax_Id=10090	Gene_Symbol=Eef1a2	Elongation factor 1-alpha 2
<a href="#">IPI00135197</a>	Tax_Id=10090	Gene_Symbol=Krt20	Keratin, type I cytoskeletal 20
<a href="#">IPI00467833</a>	Tax_Id=10090	Gene_Symbol=Tpi1	triosephosphate isomerase
<a href="#">IPI00118569</a>	Tax_Id=10090	Gene_Symbol=Gna13	Guanine nucleotide-binding protein subunit alpha-13
<a href="#">IPI00462072</a>	Tax_Id=10090	Gene_Symbol=Eno1;Gm5506	Alpha-enolase
<a href="#">IPI00120793</a>	Tax_Id=10090	Gene_Symbol=Prnp	Major prion protein
<a href="#">IPI00113410</a>	Tax_Id=10090	Gene_Symbol=Hapln2	Hyaluronan and proteoglycan link protein 2
<a href="#">IPI00622240</a>	Tax_Id=10090	Gene_Symbol=Krt2	Keratin, type II cytoskeletal 2 epidermal

### IPI\_mouse [Decoy](#) False discovery rate

Peptide matches above identity threshold	164	0	0.00 %
Peptide matches above homology or identity threshold	182	0	0.00 %

### 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 > 37 indicate identity or extensive homology (p<0.01).  
 Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



### Peptide Summary Report

Peptide Summary

Significance threshold  $p < 0.01$       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

- [IPI00420725](#)    Mass: 55882    Score: 1121    Queries matched: 76    emPAI: 0.77  
 Tax\_Id=10090 Gene\_Symbol=Camk2a Uncharacterized 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
<a href="#">27</a>	588.3868	587.3795	587.3642	26.0	0	22	0.71	1	K.IINTK.K
<a href="#">69</a>	432.7315	863.4484	863.4501	-1.94	0	23	0.56	1	R.SGAPSVLPH.-
<a href="#">90</a>	452.2513	902.4880	902.4895	-1.63	0	21	0.9	1	K.MLTINFSK.R
<a href="#">139</a>	525.2845	1048.5544	1048.5553	-0.80	0	(45)	0.0029	1	K.VLAGQEYAAK.I
<a href="#">140</a>	525.2850	1048.5554	1048.5553	0.16	0	(33)	0.044	1	K.VLAGQEYAAK.I
<a href="#">141</a>	525.2850	1048.5554	1048.5553	0.16	0	(39)	0.01	1	K.VLAGQEYAAK.I
<a href="#">142</a>	525.2855	1048.5564	1048.5553	1.11	0	54	0.00031	1	K.VLAGQEYAAK.I
<a href="#">143</a>	525.2856	1048.5566	1048.5553	1.30	0	(22)	0.49	1	K.VLAGQEYAAK.I
<a href="#">144</a>	525.2864	1048.5582	1048.5553	2.83	0	(47)	0.0015	1	K.VLAGQEYAAK.I
<a href="#">201</a>	574.3237	1146.6328	1146.6431	-8.91	0	(39)	0.0079	1	K.GAILTTMLATR.N
<a href="#">202</a>	574.3245	1146.6344	1146.6431	-7.52	0	(51)	0.00057	1	K.GAILTTMLATR.N
<a href="#">204</a>	574.3274	1146.6402	1146.6431	-2.46	0	(36)	0.014	1	K.GAILTTMLATR.N
<a href="#">205</a>	574.3279	1146.6412	1146.6431	-1.59	0	(49)	0.00074	1	K.GAILTTMLATR.N
<a href="#">206</a>	574.3290	1146.6434	1146.6431	0.33	0	(24)	0.21	1	K.GAILTTMLATR.N
<a href="#">207</a>	574.3298	1146.6450	1146.6431	1.73	0	63	2.6e-005	1	K.GAILTTMLATR.N
<a href="#">216</a>	582.3226	1162.6306	1162.6380	-6.31	0	(28)	0.097	1	K.GAILTTMLATR.N + Oxidation (M)
<a href="#">256</a>	631.3042	1260.5938	1260.5927	0.88	0	62	4.5e-005	1	R.FYFENLWSR.N
<a href="#">257</a>	631.3046	1260.5946	1260.5927	1.51	0	(49)	0.00083	1	R.FYFENLWSR.N
<a href="#">258</a>	631.3048	1260.5950	1260.5927	1.83	0	(54)	0.00028	1	R.FYFENLWSR.N
<a href="#">259</a>	631.3049	1260.5952	1260.5927	1.99	0	(58)	0.00011	1	R.FYFENLWSR.N
<a href="#">260</a>	631.3054	1260.5962	1260.5927	2.78	0	(58)	0.00011	1	R.FYFENLWSR.N
<a href="#">261</a>	631.3054	1260.5962	1260.5927	2.78	0	(37)	0.012	1	R.FYFENLWSR.N
<a href="#">262</a>	631.3058	1260.5970	1260.5927	3.42	0	(41)	0.0055	1	R.FYFENLWSR.N
<a href="#">263</a>	631.3059	1260.5972	1260.5927	3.57	0	(58)	0.00011	1	R.FYFENLWSR.N
<a href="#">264</a>	631.3059	1260.5972	1260.5927	3.57	0	(35)	0.022	1	R.FYFENLWSR.N
<a href="#">265</a>	631.3066	1260.5986	1260.5927	4.68	0	(29)	0.086	1	R.FYFENLWSR.N
<a href="#">266</a>	631.3085	1260.6024	1260.5927	7.70	0	(59)	9.9e-005	1	R.FYFENLWSR.N
<a href="#">268</a>	<b>631.3294</b>	<b>1260.6442</b>	<b>1260.5927</b>	<b>40.9</b>	<b>0</b>	<b>(4)</b>	<b>35</b>	<b>3</b>	<b>R.FYFENLWSR.N</b>
<a href="#">294</a>	652.3510	1302.6874	1302.6932	-4.41	0	(72)	5e-006	1	R.ITQYLDAGGIPR.T
<a href="#">295</a>	652.3511	1302.6876	1302.6932	-4.26	0	(72)	5.2e-006	1	R.ITQYLDAGGIPR.T
<a href="#">296</a>	652.3549	1302.6952	1302.6932	1.58	0	(60)	6.7e-005	1	R.ITQYLDAGGIPR.T
<a href="#">297</a>	652.3553	1302.6960	1302.6932	2.19	0	(69)	8.8e-006	1	R.ITQYLDAGGIPR.T
<a href="#">298</a>	652.3554	1302.6962	1302.6932	2.35	0	(77)	1.4e-006	1	R.ITQYLDAGGIPR.T
<a href="#">299</a>	652.3554	1302.6962	1302.6932	2.35	0	77	1.3e-006	1	R.ITQYLDAGGIPR.T
<a href="#">300</a>	652.3558	1302.6970	1302.6932	2.96	0	(77)	1.5e-006	1	R.ITQYLDAGGIPR.T
<a href="#">301</a>	652.3565	1302.6984	1302.6932	4.03	0	(69)	9.5e-006	1	R.ITQYLDAGGIPR.T
<a href="#">491</a>	816.8912	1631.7678	1631.7719	-2.47	0	(42)	0.0039	1	R.FTEEQQLFEELGK.G
<a href="#">492</a>	816.8919	1631.7692	1631.7719	-1.61	0	(33)	0.034	1	R.FTEEQQLFEELGK.G
<a href="#">493</a>	816.8925	1631.7704	1631.7719	-0.88	0	(18)	1	1	R.FTEEQQLFEELGK.G
<a href="#">494</a>	816.8930	1631.7714	1631.7719	-0.27	0	(64)	2.4e-005	1	R.FTEEQQLFEELGK.G
<a href="#">495</a>	816.8931	1631.7716	1631.7719	-0.14	0	(38)	0.011	1	R.FTEEQQLFEELGK.G
<a href="#">496</a>	816.8934	1631.7722	1631.7719	0.22	0	(5)	20	1	R.FTEEQQLFEELGK.G
<a href="#">498</a>	816.8940	1631.7734	1631.7719	0.96	0	(65)	1.8e-005	1	R.FTEEQQLFEELGK.G
<a href="#">500</a>	816.8945	1631.7744	1631.7719	1.57	0	(43)	0.003	1	R.FTEEQQLFEELGK.G
<a href="#">501</a>	816.8950	1631.7754	1631.7719	2.19	0	(48)	0.001	1	R.FTEEQQLFEELGK.G
<a href="#">503</a>	816.8951	1631.7756	1631.7719	2.31	0	70	5.7e-006	1	R.FTEEQQLFEELGK.G
<a href="#">504</a>	816.8952	1631.7758	1631.7719	2.43	0	(3)	29	1	R.FTEEQQLFEELGK.G
<a href="#">505</a>	816.8954	1631.7762	1631.7719	2.68	0	(64)	2.8e-005	1	R.FTEEQQLFEELGK.G
<a href="#">506</a>	816.8964	1631.7782	1631.7719	3.90	0	(23)	0.35	1	R.FTEEQQLFEELGK.G
<a href="#">507</a>	816.8967	1631.7788	1631.7719	4.27	0	(63)	2.9e-005	1	R.FTEEQQLFEELGK.G
<a href="#">508</a>	816.8970	1631.7794	1631.7719	4.64	0	(48)	0.001	1	R.FTEEQQLFEELGK.G
<a href="#">509</a>	816.8970	1631.7794	1631.7719	4.64	0	(37)	0.014	1	R.FTEEQQLFEELGK.G
<a href="#">510</a>	816.8972	1631.7798	1631.7719	4.88	0	(50)	0.00068	1	R.FTEEQQLFEELGK.G
<a href="#">511</a>	816.8972	1631.7798	1631.7719	4.88	0	(38)	0.0091	1	R.FTEEQQLFEELGK.G
<a href="#">512</a>	816.8990	1631.7834	1631.7719	7.09	0	(37)	0.012	1	R.FTEEQQLFEELGK.G
<a href="#">513</a>	816.8997	1631.7848	1631.7719	7.95	0	(2)	42	1	R.FTEEQQLFEELGK.G
<a href="#">646</a>	694.3165	2079.9277	2079.9426	-7.15	0	(51)	0.0003	1	K.AGAYDFPSPEWDTVTPEAK.D
<a href="#">647</a>	694.3185	2079.9337	2079.9426	-4.27	0	(60)	3.8e-005	1	K.AGAYDFPSPEWDTVTPEAK.D
<a href="#">648</a>	1040.9807	2079.9468	2079.9426	2.07	0	(60)	4.5e-005	1	K.AGAYDFPSPEWDTVTPEAK.D
<a href="#">649</a>	1040.9808	2079.9470	2079.9426	2.16	0	(43)	0.0021	1	K.AGAYDFPSPEWDTVTPEAK.D
<a href="#">650</a>	1040.9817	2079.9488	2079.9426	3.03	0	(53)	0.0002	1	K.AGAYDFPSPEWDTVTPEAK.D
<a href="#">651</a>	1040.9820	2079.9494	2079.9426	3.32	0	(56)	0.00011	1	K.AGAYDFPSPEWDTVTPEAK.D
<a href="#">652</a>	1040.9820	2079.9494	2079.9426	3.32	0	(50)	0.00046	1	K.AGAYDFPSPEWDTVTPEAK.D
<a href="#">653</a>	1040.9828	2079.9510	2079.9426	4.09	0	(45)	0.0013	1	K.AGAYDFPSPEWDTVTPEAK.D
<a href="#">654</a>	1040.9838	2079.9530	2079.9426	5.05	0	74	1.9e-006	1	K.AGAYDFPSPEWDTVTPEAK.D
<a href="#">655</a>	1040.9847	2079.9548	2079.9426	5.91	0	(34)	0.019	1	K.AGAYDFPSPEWDTVTPEAK.D
<a href="#">662</a>	715.3441	2143.0105	2143.0321	-10.08	0	61	4.1e-005	1	K.VTEQLIEAISNGDFESYTK.M
<a href="#">663</a>	1072.5222	2143.0298	2143.0321	-1.04	0	(38)	0.0075	1	K.VTEQLIEAISNGDFESYTK.M
<a href="#">664</a>	1072.5251	2143.0356	2143.0321	1.67	0	(54)	0.00019	1	K.VTEQLIEAISNGDFESYTK.M
<a href="#">665</a>	1072.5334	2143.0522	2143.0321	9.41	0	(11)	4.6	1	K.VTEQLIEAISNGDFESYTK.M
<a href="#">696</a>	888.7555	2663.2447	2663.2755	-11.57	1	(27)	0.084	1	K.AGAYDFPSPEWDTVTPEAKDLINK.M
<a href="#">697</a>	888.7577	2663.2513	2663.2755	-9.10	1	(8)	6.2	1	K.AGAYDFPSPEWDTVTPEAKDLINK.M
<a href="#">698</a>	888.7581	2663.2525	2663.2755	-8.65	1	(5)	14	1	K.AGAYDFPSPEWDTVTPEAKDLINK.M
<a href="#">699</a>	888.7607	2663.2603	2663.2755	-5.72	1	(22)	0.24	1	K.AGAYDFPSPEWDTVTPEAKDLINK.M
<a href="#">701</a>	888.7623	2663.2651	2663.2755	-3.91	1	(8)	7.1	1	K.AGAYDFPSPEWDTVTPEAKDLINK.M
<a href="#">703</a>	888.7635	2663.2687	2663.2755	-2.56	1	37	0.0079	1	K.AGAYDFPSPEWDTVTPEAKDLINK.M

Proteins matching the same set of peptides:

[IPI00621806](#) Mass: 54651 Score: 1121 Queries matched: 76  
Tax\_Id=10090 Gene\_Symbol=Camk2a Isoform Alpha CaMKII of Calcium/calmodulin-dependent protein kinase type II subunit alpha

2. [IPI00474502](#) Mass: 61164 Score: 595 Queries matched: 38 emPAI: 0.52  
Tax\_Id=10090 Gene\_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase type II subunit 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
<a href="#">27</a>	588.3868	587.3795	587.3642	26.0	0	22	0.71	1	K.IINTK.K
<input checked="" type="checkbox"/> <a href="#">193</a>	572.8034	1143.5922	1143.5964	-3.65	0	(13)	4.4	1	R.FYFENLLAK.N
<input checked="" type="checkbox"/> <a href="#">194</a>	572.8046	1143.5946	1143.5964	-1.55	0	(19)	1	1	R.FYFENLLAK.N
<input checked="" type="checkbox"/> <a href="#">196</a>	572.8075	1143.6004	1143.5964	3.52	0	22	0.51	1	R.FYFENLLAK.N
<input checked="" type="checkbox"/> <a href="#">197</a>	572.8082	1143.6018	1143.5964	4.75	0	(12)	4.9	1	R.FYFENLLAK.N
<a href="#">198</a>	572.8111	1143.6076	1143.5964	9.82	0	(4)	32	2	R.FYFENLLAK.N
<a href="#">201</a>	574.3237	1146.6328	1146.6431	-8.91	0	(39)	0.0079	1	K.GALLTTLMLATR.N
<a href="#">202</a>	574.3245	1146.6344	1146.6431	-7.52	0	(51)	0.00057	1	K.GALLTTLMLATR.N
<a href="#">204</a>	574.3274	1146.6402	1146.6431	-2.46	0	(36)	0.014	1	K.GALLTTLMLATR.N
<a href="#">205</a>	574.3279	1146.6412	1146.6431	-1.59	0	(49)	0.00074	1	K.GALLTTLMLATR.N
<a href="#">206</a>	574.3290	1146.6434	1146.6431	0.33	0	(24)	0.21	1	K.GALLTTLMLATR.N
<a href="#">207</a>	574.3298	1146.6450	1146.6431	1.73	0	63	2.6e-005	1	K.GALLTTLMLATR.N
<a href="#">216</a>	582.3226	1162.6306	1162.6380	-6.31	0	(28)	0.097	1	K.GALLTTLMLATR.N + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">372</a>	735.4076	1468.8006	1468.8071	-4.42	0	(18)	0.75	1	K.NLINQMLTINPAK.R
<input checked="" type="checkbox"/> <a href="#">373</a>	735.4100	1468.8054	1468.8071	-1.15	0	(63)	2.7e-005	1	K.NLINQMLTINPAK.R
<input checked="" type="checkbox"/> <a href="#">374</a>	735.4109	1468.8072	1468.8071	0.07	0	75	1.7e-006	1	K.NLINQMLTINPAK.R
<input checked="" type="checkbox"/> <a href="#">375</a>	735.4146	1468.8146	1468.8071	5.11	0	(62)	3.1e-005	1	K.NLINQMLTINPAK.R
<input checked="" type="checkbox"/> <a href="#">376</a>	735.4150	1468.8154	1468.8071	5.65	0	(71)	3.6e-006	1	K.NLINQMLTINPAK.R
<input checked="" type="checkbox"/> <a href="#">480</a>	810.8856	1619.7566	1619.7355	13.1	0	(4)	26	1	R.FTDEYQLYEDIGK.G
<input checked="" type="checkbox"/> <a href="#">481</a>	810.8877	1619.7608	1619.7355	15.6	0	8	9.3	1	R.FTDEYQLYEDIGK.G
<input checked="" type="checkbox"/> <a href="#">632</a>	656.9538	1967.8396	1967.8556	-8.12	1	52	0.00014	1	K.ESSDSTNTTIEDEDAKAR.K
<a href="#">646</a>	694.3165	2079.9277	2079.9426	-7.15	0	(51)	0.0003	1	K.AGAYDFPSPWDVTPEAK.N
<a href="#">647</a>	694.3185	2079.9337	2079.9426	-4.27	0	(60)	3.8e-005	1	K.AGAYDFPSPWDVTPEAK.N
<a href="#">648</a>	1040.9807	2079.9468	2079.9426	2.07	0	(60)	4.5e-005	1	K.AGAYDFPSPWDVTPEAK.N
<a href="#">649</a>	1040.9808	2079.9470	2079.9426	2.16	0	(43)	0.0021	1	K.AGAYDFPSPWDVTPEAK.N
<a href="#">650</a>	1040.9817	2079.9488	2079.9426	3.03	0	(53)	0.0002	1	K.AGAYDFPSPWDVTPEAK.N
<a href="#">651</a>	1040.9820	2079.9494	2079.9426	3.32	0	(56)	0.00011	1	K.AGAYDFPSPWDVTPEAK.N
<a href="#">652</a>	1040.9820	2079.9494	2079.9426	3.32	0	(50)	0.00046	1	K.AGAYDFPSPWDVTPEAK.N
<a href="#">653</a>	1040.9828	2079.9510	2079.9426	4.09	0	(45)	0.0013	1	K.AGAYDFPSPWDVTPEAK.N
<a href="#">654</a>	1040.9838	2079.9530	2079.9426	5.05	0	74	1.9e-006	1	K.AGAYDFPSPWDVTPEAK.N
<a href="#">655</a>	1040.9847	2079.9548	2079.9426	5.91	0	(34)	0.019	1	K.AGAYDFPSPWDVTPEAK.N
<input checked="" type="checkbox"/> <a href="#">676</a>	785.0440	2352.1102	2352.1301	-8.48	0	(91)	3.4e-008	1	R.QTTAPATMSTAASGTTMGLVEQAK.S
<input checked="" type="checkbox"/> <a href="#">677</a>	785.0472	2352.1198	2352.1301	-4.40	0	(90)	3.9e-008	1	R.QTTAPATMSTAASGTTMGLVEQAK.S
<input checked="" type="checkbox"/> <a href="#">678</a>	1177.0771	2352.1396	2352.1301	4.05	0	(32)	0.025	1	R.QTTAPATMSTAASGTTMGLVEQAK.S
<input checked="" type="checkbox"/> <a href="#">679</a>	1177.0814	2352.1482	2352.1301	7.71	0	91	3.4e-008	1	R.QTTAPATMSTAASGTTMGLVEQAK.S
<input checked="" type="checkbox"/> <a href="#">681</a>	785.4148	2353.2226	2353.2642	-17.67	0	(13)	1.9	1	K.GSLPPAALEPQTTVIHNPVDGIK.E
<input checked="" type="checkbox"/> <a href="#">682</a>	785.4241	2353.2505	2353.2642	-5.82	0	14	1.5	1	K.GSLPPAALEPQTTVIHNPVDGIK.E
<input checked="" type="checkbox"/> <a href="#">685</a>	790.3805	2368.1197	2368.1250	-2.26	0	(42)	0.0024	1	R.QTTAPATMSTAASGTTMGLVEQAK.S + Oxidation (M)

Proteins matching the same set of peptides:

[IPI00875723](#) Mass: 68686 Score: 595 Queries matched: 38  
Tax\_Id=10090 Gene\_Symbol=Camk2b 68 kDa protein

3. [IPI00109073](#) Mass: 50010 Score: 415 Queries matched: 22 emPAI: 0.38

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
<input checked="" type="checkbox"/> <a href="#">191</a>	572.3217	1142.6288	1142.6270	1.59	0	69	1.1e-005	1	K.LAVNMVPPFR.L
<input checked="" type="checkbox"/> <a href="#">192</a>	572.3229	1142.6312	1142.6270	3.69	0	(38)	0.013	1	K.LAVNMVPPFR.L
<input checked="" type="checkbox"/> <a href="#">308</a>	660.3503	1318.6860	1318.6955	-7.18	0	(63)	4.2e-005	1	R.IMNTFSVVPSPK.V
<input checked="" type="checkbox"/> <a href="#">309</a>	660.3552	1318.6958	1318.6955	0.26	0	(32)	0.048	1	R.IMNTFSVVPSPK.V
<input checked="" type="checkbox"/> <a href="#">310</a>	660.3563	1318.6980	1318.6955	1.92	0	(71)	6.3e-006	1	R.IMNTFSVVPSPK.V
<input checked="" type="checkbox"/> <a href="#">311</a>	660.3572	1318.6998	1318.6955	3.29	0	104	2.8e-009	1	R.IMNTFSVVPSPK.V
<input checked="" type="checkbox"/> <a href="#">454</a>	801.4125	1600.8104	1600.8131	-1.63	0	(65)	2.2e-005	1	R.AVLVDLEPGTMSVR.S
<input checked="" type="checkbox"/> <a href="#">455</a>	801.4150	1600.8154	1600.8131	1.49	0	79	8.4e-007	1	R.AVLVDLEPGTMSVR.S
<input checked="" type="checkbox"/> <a href="#">456</a>	801.4152	1600.8158	1600.8131	1.74	0	(59)	8.6e-005	1	R.AVLVDLEPGTMSVR.S
<input checked="" type="checkbox"/> <a href="#">457</a>	801.4156	1600.8166	1600.8131	2.24	0	(60)	6.8e-005	1	R.AVLVDLEPGTMSVR.S
<input checked="" type="checkbox"/> <a href="#">458</a>	801.4175	1600.8204	1600.8131	4.61	0	(65)	1.8e-005	1	R.AVLVDLEPGTMSVR.S
<input checked="" type="checkbox"/> <a href="#">475</a>	809.4103	1616.8060	1616.8080	-1.20	0	(36)	0.017	1	R.AVLVDLEPGTMSVR.S + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">521</a>	846.4363	1690.8580	1690.8600	-1.16	0	(13)	3.3	2	R.ALTVPPELTQQMFDAK.N
<input checked="" type="checkbox"/> <a href="#">522</a>	846.4375	1690.8604	1690.8600	0.26	0	(34)	0.027	1	R.ALTVPPELTQQMFDAK.N
<input checked="" type="checkbox"/> <a href="#">523</a>	846.4381	1690.8616	1690.8600	0.97	0	(28)	0.099	1	R.ALTVPPELTQQMFDAK.N
<input checked="" type="checkbox"/> <a href="#">524</a>	846.4382	1690.8618	1690.8600	1.09	0	53	0.00034	1	R.ALTVPPELTQQMFDAK.N
<input checked="" type="checkbox"/> <a href="#">526</a>	848.9185	1695.8224	1695.8257	-1.89	0	12	3.8	1	K.NSSYFVEWIPNNVK.T
<input checked="" type="checkbox"/> <a href="#">558</a>	854.4335	1706.8524	1706.8549	-1.45	0	(28)	0.11	2	R.ALTVPPELTQQMFDAK.N + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">560</a>	854.4359	1706.8572	1706.8549	1.36	0	(16)	1.5	2	R.ALTVPPELTQQMFDAK.N + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">601</a>	915.4471	1828.8796	1828.8744	2.87	0	65	2e-005	1	R.INVYYNEATGGNYVPR.A
<input checked="" type="checkbox"/> <a href="#">602</a>	915.4512	1828.8878	1828.8744	7.36	0	(41)	0.0042	1	R.INVYYNEATGGNYVPR.A
<input checked="" type="checkbox"/> <a href="#">603</a>	915.4561	1828.8976	1828.8744	12.7	0	(5)	18	4	R.INVYYNEATGGNYVPR.A

4. [IPI00169463](#) Mass: 50255 Score: 404 Queries matched: 20 emPAI: 0.37

Tax\_Id=10090 Gene\_Symbol=Tubb2c Tubulin beta-2C 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

<a href="#">191</a>	572.3217	1142.6288	1142.6270	1.59	0	69	1.1e-005	1	K.LAVNMVFPFR.L	
<a href="#">192</a>	572.3229	1142.6312	1142.6270	3.69	0	(38)	0.013	1	K.LAVNMVFPFR.L	
<a href="#">308</a>	660.3503	1318.6860	1318.6955	-7.18	0	(63)	4.2e-005	1	R.IMNTFVVVSPK.V	
<a href="#">309</a>	660.3552	1318.6958	1318.6955	0.26	0	(32)	0.048	1	R.IMNTFVVVSPK.V	
<a href="#">310</a>	660.3563	1318.6980	1318.6955	1.92	0	(71)	6.3e-006	1	R.IMNTFVVVSPK.V	
<a href="#">311</a>	660.3572	1318.6998	1318.6955	3.29	0	104	2.8e-009	1	R.IMNTFVVVSPK.V	
<input checked="" type="checkbox"/>	<a href="#">363</a>	<b>723.8521</b>	<b>1445.6896</b>	<b>1445.6820</b>	<b>5.28</b>	<b>0</b>	<b>61</b>	<b>5.4e-005</b>	<b>1</b>	<b>K.EVDEQMLNVQNK.N</b>
<a href="#">454</a>	801.4125	1600.8104	1600.8131	-1.63	0	(65)	2.2e-005	1	R.AVLVDLEPGTMSVR.S	
<a href="#">455</a>	801.4150	1600.8154	1600.8131	1.49	0	79	8.4e-007	1	R.AVLVDLEPGTMSVR.S	
<a href="#">456</a>	801.4152	1600.8158	1600.8131	1.74	0	(59)	8.6e-005	1	R.AVLVDLEPGTMSVR.S	
<a href="#">457</a>	801.4156	1600.8166	1600.8131	2.24	0	(60)	6.8e-005	1	R.AVLVDLEPGTMSVR.S	
<a href="#">458</a>	801.4175	1600.8204	1600.8131	4.61	0	(65)	1.8e-005	1	R.AVLVDLEPGTMSVR.S	
<a href="#">475</a>	809.4103	1616.8060	1616.8080	-1.20	0	(36)	0.017	1	R.AVLVDLEPGTMSVR.S + Oxidation (M)	
<a href="#">521</a>	846.4363	1690.8580	1690.8600	-1.16	0	(13)	3.3	2	R.ALTVPELTQQMFDAK.N	
<a href="#">522</a>	846.4375	1690.8604	1690.8600	0.26	0	(34)	0.027	1	R.ALTVPELTQQMFDAK.N	
<a href="#">523</a>	846.4381	1690.8616	1690.8600	0.97	0	(28)	0.099	1	R.ALTVPELTQQMFDAK.N	
<a href="#">524</a>	846.4382	1690.8618	1690.8600	1.09	0	53	0.00034	1	R.ALTVPELTQQMFDAK.N	
<a href="#">526</a>	848.9185	1695.8224	1695.8257	-1.89	0	12	3.8	1	K.NSSYFVWIPNVK.T	
<a href="#">558</a>	854.4335	1706.8524	1706.8549	-1.45	0	(28)	0.11	2	R.ALTVPELTQQMFDAK.N + Oxidation (M)	
<a href="#">560</a>	854.4359	1706.8572	1706.8549	1.36	0	(16)	1.5	2	R.ALTVPELTQQMFDAK.N + Oxidation (M)	

5. [IPI00124695](#) Mass: 60254 Score: 386 Queries matched: 19 emPAI: 0.24  
Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 1 of Calcium/calmodulin-dependent protein kinase type II 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	
<a href="#">27</a>	588.3868	587.3795	587.3642	26.0	0	22	0.71	1	K.IINTK.K	
<a href="#">372</a>	735.4076	1468.8006	1468.8071	-4.42	0	(18)	0.75	1	K.NLINQMLTINPAK.R	
<a href="#">373</a>	735.4100	1468.8054	1468.8071	-1.15	0	(63)	2.7e-005	1	K.NLINQMLTINPAK.R	
<a href="#">374</a>	735.4109	1468.8072	1468.8071	0.07	0	75	1.7e-006	1	K.NLINQMLTINPAK.R	
<a href="#">375</a>	735.4146	1468.8146	1468.8071	5.11	0	(62)	3.1e-005	1	K.NLINQMLTINPAK.R	
<a href="#">376</a>	735.4150	1468.8154	1468.8071	5.65	0	(71)	3.6e-006	1	K.NLINQMLTINPAK.R	
<input checked="" type="checkbox"/>	<a href="#">463</a>	<b>802.8795</b>	<b>1603.7444</b>	<b>1603.7406</b>	<b>2.40</b>	<b>0</b>	<b>51</b>	<b>0.00037</b>	<b>1</b>	<b>R.FTDDYQLFEELGK.G</b>
<input checked="" type="checkbox"/>	<a href="#">464</a>	<b>802.8842</b>	<b>1603.7538</b>	<b>1603.7406</b>	<b>8.26</b>	<b>0</b>	<b>(29)</b>	<b>0.074</b>	<b>1</b>	<b>R.FTDDYQLFEELGK.G</b>
<input checked="" type="checkbox"/>	<a href="#">465</a>	<b>802.8851</b>	<b>1603.7556</b>	<b>1603.7406</b>	<b>9.38</b>	<b>0</b>	<b>(37)</b>	<b>0.011</b>	<b>1</b>	<b>R.FTDDYQLFEELGK.G</b>
<a href="#">646</a>	694.3165	2079.9277	2079.9426	-7.15	0	(51)	0.0003	1	K.AGAYDFPSPEDWTVTPEAK.N	
<a href="#">647</a>	694.3185	2079.9337	2079.9426	-4.27	0	(60)	3.8e-005	1	K.AGAYDFPSPEDWTVTPEAK.N	
<a href="#">648</a>	1040.9807	2079.9468	2079.9426	2.07	0	(60)	4.5e-005	1	K.AGAYDFPSPEDWTVTPEAK.N	
<a href="#">649</a>	1040.9808	2079.9470	2079.9426	2.16	0	(43)	0.0021	1	K.AGAYDFPSPEDWTVTPEAK.N	
<a href="#">650</a>	1040.9817	2079.9488	2079.9426	3.03	0	(53)	0.0002	1	K.AGAYDFPSPEDWTVTPEAK.N	
<a href="#">651</a>	1040.9820	2079.9494	2079.9426	3.32	0	(56)	0.00011	1	K.AGAYDFPSPEDWTVTPEAK.N	
<a href="#">652</a>	1040.9820	2079.9494	2079.9426	3.32	0	(50)	0.00046	1	K.AGAYDFPSPEDWTVTPEAK.N	
<a href="#">653</a>	1040.9828	2079.9510	2079.9426	4.09	0	(45)	0.0013	1	K.AGAYDFPSPEDWTVTPEAK.N	
<a href="#">654</a>	1040.9838	2079.9530	2079.9426	5.05	0	74	1.9e-006	1	K.AGAYDFPSPEDWTVTPEAK.N	
<a href="#">655</a>	1040.9847	2079.9548	2079.9426	5.91	0	(34)	0.019	1	K.AGAYDFPSPEDWTVTPEAK.N	

Proteins matching the same set of peptides:

[IPI00228044](#) Mass: 59013 Score: 386 Queries matched: 19  
Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 2 of Calcium/calmodulin-dependent protein kinase type II subunit gamma  
[IPI00228045](#) Mass: 56610 Score: 386 Queries matched: 19  
Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 3 of Calcium/calmodulin-dependent protein kinase type II subunit gamma

6. [IPI00117352](#) Mass: 50095 Score: 381 Queries matched: 16 emPAI: 0.38  
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	
<a href="#">191</a>	572.3217	1142.6288	1142.6270	1.59	0	69	1.1e-005	1	K.LAVNMVFPFR.L	
<a href="#">192</a>	572.3229	1142.6312	1142.6270	3.69	0	(38)	0.013	1	K.LAVNMVFPFR.L	
<a href="#">308</a>	660.3503	1318.6860	1318.6955	-7.18	0	(63)	4.2e-005	1	R.IMNTFVVVSPK.V	
<a href="#">309</a>	660.3552	1318.6958	1318.6955	0.26	0	(32)	0.048	1	R.IMNTFVVVSPK.V	
<a href="#">310</a>	660.3563	1318.6980	1318.6955	1.92	0	(71)	6.3e-006	1	R.IMNTFVVVSPK.V	
<a href="#">311</a>	660.3572	1318.6998	1318.6955	3.29	0	104	2.8e-009	1	R.IMNTFVVVSPK.V	
<a href="#">363</a>	723.8521	1445.6896	1445.6820	5.28	0	61	5.4e-005	1	K.EVDEQMLNVQNK.N	
<input checked="" type="checkbox"/>	<a href="#">468</a>	<b>808.4218</b>	<b>1614.8290</b>	<b>1614.8287</b>	<b>0.21</b>	<b>0</b>	<b>(36)</b>	<b>0.02</b>	<b>1</b>	<b>R.AILVDLEPGTMSVR.S</b>
<input checked="" type="checkbox"/>	<a href="#">469</a>	<b>808.4241</b>	<b>1614.8336</b>	<b>1614.8287</b>	<b>3.06</b>	<b>0</b>	<b>(70)</b>	<b>7.9e-006</b>	<b>1</b>	<b>R.AILVDLEPGTMSVR.S</b>
<input checked="" type="checkbox"/>	<a href="#">470</a>	<b>808.4243</b>	<b>1614.8340</b>	<b>1614.8287</b>	<b>3.31</b>	<b>0</b>	<b>(60)</b>	<b>7.8e-005</b>	<b>1</b>	<b>R.AILVDLEPGTMSVR.S</b>
<input checked="" type="checkbox"/>	<a href="#">471</a>	<b>808.4246</b>	<b>1614.8346</b>	<b>1614.8287</b>	<b>3.68</b>	<b>0</b>	<b>70</b>	<b>7.2e-006</b>	<b>1</b>	<b>R.AILVDLEPGTMSVR.S</b>
<input checked="" type="checkbox"/>	<a href="#">489</a>	<b>816.4179</b>	<b>1630.8212</b>	<b>1630.8236</b>	<b>-1.46</b>	<b>0</b>	<b>(48)</b>	<b>0.0011</b>	<b>1</b>	<b>R.AILVDLEPGTMSVR.S + Oxidation (M)</b>
<input checked="" type="checkbox"/>	<a href="#">490</a>	<b>816.4210</b>	<b>1630.8274</b>	<b>1630.8236</b>	<b>2.34</b>	<b>0</b>	<b>(54)</b>	<b>0.00032</b>	<b>1</b>	<b>R.AILVDLEPGTMSVR.S + Oxidation (M)</b>
<input checked="" type="checkbox"/>	<a href="#">518</a>	<b>830.4456</b>	<b>1658.8766</b>	<b>1658.8879</b>	<b>-6.81</b>	<b>0</b>	<b>(13)</b>	<b>2.7</b>	<b>1</b>	<b>R.ALTVPELTQQVFDK.N</b>
<input checked="" type="checkbox"/>	<a href="#">519</a>	<b>830.4520</b>	<b>1658.8894</b>	<b>1658.8879</b>	<b>0.91</b>	<b>0</b>	<b>28</b>	<b>0.085</b>	<b>1</b>	<b>R.ALTVPELTQQVFDK.N</b>
<a href="#">526</a>	848.9185	1695.8224	1695.8257	-1.89	0	12	3.8	1	K.NSSYFVWIPNVK.T	

7. [IPI00109061](#) Mass: 50377 Score: 375 Queries matched: 16 emPAI: 0.46  
Tax\_Id=10090 Gene\_Symbol=Tubb2b Tubulin beta-2B 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	
<a href="#">191</a>	572.3217	1142.6288	1142.6270	1.59	0	69	1.1e-005	1	K.LAVNMVFPFR.L	
<a href="#">192</a>	572.3229	1142.6312	1142.6270	3.69	0	(38)	0.013	1	K.LAVNMVFPFR.L	
<input checked="" type="checkbox"/>	<a href="#">330</a>	<b>676.3404</b>	<b>1350.6662</b>	<b>1350.6676</b>	<b>-0.98</b>	<b>0</b>	<b>(65)</b>	<b>2.1e-005</b>	<b>1</b>	<b>R.IMNTFVVVSPK.V</b>
<input checked="" type="checkbox"/>	<a href="#">331</a>	<b>676.3443</b>	<b>1350.6740</b>	<b>1350.6676</b>	<b>4.79</b>	<b>0</b>	<b>82</b>	<b>5.1e-007</b>	<b>1</b>	<b>R.IMNTFVVVSPK.V</b>
<input checked="" type="checkbox"/>	<a href="#">332</a>	<b>676.3445</b>	<b>1350.6744</b>	<b>1350.6676</b>	<b>5.09</b>	<b>0</b>	<b>(64)</b>	<b>3.2e-005</b>	<b>1</b>	<b>R.IMNTFVVVSPK.V</b>
<a href="#">363</a>	723.8521	1445.6896	1445.6820	5.28	0	61	5.4e-005	1	K.EVDEQMLNVQNK.N	

<a href="#">468</a>	808.4218	1614.8290	1614.8287	0.21	0	(36)	0.02	1	R.AILVDLEPGTMSVR.S
<a href="#">469</a>	808.4241	1614.8336	1614.8287	3.06	0	(70)	7.9e-006	1	R.AILVDLEPGTMSVR.S
<a href="#">470</a>	808.4243	1614.8340	1614.8287	3.31	0	(60)	7.8e-005	1	R.AILVDLEPGTMSVR.S
<a href="#">471</a>	808.4246	1614.8346	1614.8287	3.68	0	70	7.2e-006	1	R.AILVDLEPGTMSVR.S
<a href="#">489</a>	816.4179	1630.8212	1630.8236	-1.46	0	(48)	0.0011	1	R.AILVDLEPGTMSVR.S + Oxidation (M)
<a href="#">490</a>	816.4210	1630.8274	1630.8236	2.34	0	(54)	0.00032	1	R.AILVDLEPGTMSVR.S + Oxidation (M)
<a href="#">526</a>	848.9185	1695.8224	1695.8257	-1.89	0	12	3.8	1	K.NSSYFVEWIPNNVK.T
<input checked="" type="checkbox"/> <a href="#">558</a>	854.4335	1706.8524	1706.8549	-1.45	0	40	0.0068	1	R.ALTVPELTQQMFDSK.N
<input checked="" type="checkbox"/> <a href="#">559</a>	854.4358	1706.8570	1706.8549	1.25	0	(4)	27	1	R.ALTVPELTQQMFDSK.N
<input checked="" type="checkbox"/> <a href="#">560</a>	854.4359	1706.8572	1706.8549	1.36	0	(24)	0.24	1	R.ALTVPELTQQMFDSK.N

## Proteins matching the same set of peptides:

[IPI00338039](#) Mass: 50274 Score: 375 Queries matched: 16  
Tax\_id=10090 Gene\_Symbol=Tubb2a Tubulin beta-2A chain

8. [IPI00112251](#) Mass: 50842 Score: 372 Queries matched: 19 emPAI: 0.37

Tax\_id=10090 Gene\_Symbol=Tubb3 Tubulin beta-3 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
<a href="#">191</a>	572.3217	1142.6288	1142.6270	1.59	0	69	1.1e-005	1	K.LAVNMVPPFR.L
<a href="#">192</a>	572.3229	1142.6312	1142.6270	3.69	0	(38)	0.013	1	K.LAVNMVPPFR.L
<a href="#">308</a>	660.3503	1318.6860	1318.6955	-7.18	0	(63)	4.2e-005	1	R.IMNTFVVVSPK.V
<a href="#">309</a>	660.3552	1318.6958	1318.6955	0.26	0	(32)	0.048	1	R.IMNTFVVVSPK.V
<a href="#">310</a>	660.3563	1318.6980	1318.6955	1.92	0	(71)	6.3e-006	1	R.IMNTFVVVSPK.V
<a href="#">311</a>	660.3572	1318.6998	1318.6955	3.29	0	104	2.8e-009	1	R.IMNTFVVVSPK.V
<a href="#">468</a>	808.4218	1614.8290	1614.8287	0.21	0	(36)	0.02	1	R.AILVDLEPGTMSVR.S
<a href="#">469</a>	808.4241	1614.8336	1614.8287	3.06	0	(70)	7.9e-006	1	R.AILVDLEPGTMSVR.S
<a href="#">470</a>	808.4243	1614.8340	1614.8287	3.31	0	(60)	7.8e-005	1	R.AILVDLEPGTMSVR.S
<a href="#">471</a>	808.4246	1614.8346	1614.8287	3.68	0	70	7.2e-006	1	R.AILVDLEPGTMSVR.S
<a href="#">489</a>	816.4179	1630.8212	1630.8236	-1.46	0	(48)	0.0011	1	R.AILVDLEPGTMSVR.S + Oxidation (M)
<a href="#">490</a>	816.4210	1630.8274	1630.8236	2.34	0	(54)	0.00032	1	R.AILVDLEPGTMSVR.S + Oxidation (M)
<a href="#">521</a>	846.4363	1690.8580	1690.8600	-1.16	0	(13)	3.3	2	R.ALTVPELTQQMFDAK.N
<a href="#">522</a>	846.4375	1690.8604	1690.8600	0.26	0	(34)	0.027	1	R.ALTVPELTQQMFDAK.N
<a href="#">523</a>	846.4381	1690.8616	1690.8600	0.97	0	(28)	0.099	1	R.ALTVPELTQQMFDAK.N
<a href="#">524</a>	846.4382	1690.8618	1690.8600	1.09	0	53	0.00034	1	R.ALTVPELTQQMFDAK.N
<a href="#">526</a>	848.9185	1695.8224	1695.8257	-1.89	0	12	3.8	1	K.NSSYFVEWIPNNVK.V
<a href="#">558</a>	854.4335	1706.8524	1706.8549	-1.45	0	(28)	0.11	2	R.ALTVPELTQQMFDAK.N + Oxidation (M)
<a href="#">560</a>	854.4359	1706.8572	1706.8549	1.36	0	(16)	1.5	2	R.ALTVPELTQQMFDAK.N + Oxidation (M)

9. [IPI00755181](#) Mass: 57178 Score: 296 Queries matched: 11 emPAI: 0.32

Tax\_id=10090 Gene\_Symbol=Krt10 keratin, type I cytoskeletal 10

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"/> <a href="#">170</a>	545.7681	1089.5216	1089.5237	-1.87	0	(65)	2.8e-005	1	K.VTMQNLNDR.L
<input checked="" type="checkbox"/> <a href="#">171</a>	545.7692	1089.5238	1089.5237	0.15	0	83	4.1e-007	1	K.VTMQNLNDR.L
<input checked="" type="checkbox"/> <a href="#">175</a>	553.7703	1105.5260	1105.5186	6.74	0	(35)	0.029	1	K.VTMQNLNDR.L + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">176</a>	553.7716	1105.5286	1105.5186	9.09	0	(50)	0.00085	1	K.VTMQNLNDR.L + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">217</a>	583.2936	1164.5726	1164.5775	-4.14	0	(36)	0.019	1	R.LENEIQTYR.S
<input checked="" type="checkbox"/> <a href="#">218</a>	583.2956	1164.5766	1164.5775	-0.70	0	41	0.0064	1	R.LENEIQTYR.S
<input checked="" type="checkbox"/> <a href="#">340</a>	691.3282	1380.6418	1380.6408	0.73	0	(52)	0.00037	1	R.ALEESNYELEGK.I
<input checked="" type="checkbox"/> <a href="#">341</a>	691.3283	1380.6420	1380.6408	0.88	0	(74)	2.5e-006	1	R.ALEESNYELEGK.I
<input checked="" type="checkbox"/> <a href="#">342</a>	691.3298	1380.6450	1380.6408	3.05	0	87	1.1e-007	1	R.ALEESNYELEGK.I
<input checked="" type="checkbox"/> <a href="#">343</a>	691.3315	1380.6484	1380.6408	5.51	0	(55)	0.00017	1	R.ALEESNYELEGK.I
<input checked="" type="checkbox"/> <a href="#">353</a>	695.8544	1389.6942	1389.6736	14.9	0	55	0.00024	1	K.QSLEASLAETGR.Y

## Proteins matching the same set of peptides:

[IPI00798492](#) Mass: 57906 Score: 296 Queries matched: 11  
Tax\_id=10090 Gene\_Symbol=Krt10 Isoform 1 of Keratin, type I cytoskeletal 10

[IPI00828744](#) Mass: 57197 Score: 296 Queries matched: 11  
Tax\_id=10090 Gene\_Symbol=Krt10 Isoform 2 of Keratin, type I cytoskeletal 10

10. [IPI00110753](#) Mass: 50788 Score: 288 Queries matched: 21 emPAI: 0.06

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"/> <a href="#">529</a>	851.4498	1700.8850	1700.8985	-7.92	0	(1)	45	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">530</a>	851.4507	1700.8868	1700.8985	-6.86	0	(58)	8.7e-005	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">532</a>	851.4516	1700.8886	1700.8985	-5.80	0	(60)	6.1e-005	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">533</a>	851.4528	1700.8910	1700.8985	-4.39	0	(70)	5.8e-006	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">534</a>	851.4536	1700.8926	1700.8985	-3.45	0	(57)	0.00013	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">535</a>	851.4545	1700.8944	1700.8985	-2.39	0	(1)	47	2	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">536</a>	851.4548	1700.8950	1700.8985	-2.04	0	(40)	0.0052	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">537</a>	851.4554	1700.8962	1700.8985	-1.33	0	(20)	0.6	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">539</a>	851.4562	1700.8978	1700.8985	-0.39	0	(38)	0.0081	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">540</a>	851.4565	1700.8984	1700.8985	-0.04	0	(21)	0.49	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">541</a>	851.4575	1700.9004	1700.8985	1.14	0	(44)	0.0021	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">542</a>	851.4576	1700.9006	1700.8985	1.25	0	(23)	0.3	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">543</a>	851.4583	1700.9020	1700.8985	2.08	0	(49)	0.00072	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">544</a>	851.4584	1700.9022	1700.8985	2.20	0	(5)	17	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">545</a>	851.4591	1700.9036	1700.8985	3.02	0	77	1.1e-006	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/> <a href="#">546</a>	851.4612	1700.9078	1700.8985	5.49	0	(22)	0.33	1	R.AVFVDLEPTVIDEVR.T

<input checked="" type="checkbox"/>	<a href="#">547</a>	851.4636	1700.9126	1700.8985	8.31	0	(56)	0.00013	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/>	<a href="#">548</a>	851.4642	1700.9138	1700.8985	9.02	0	(46)	0.0012	1	R.AVFVDLEPTVIDEVR.T
<input checked="" type="checkbox"/>	<a href="#">597</a>	912.9963	1823.9780	1823.9782	-0.06	0	(12)	2.8	1	K.VGINYQPPTVPPGGDLAK.V
<input checked="" type="checkbox"/>	<a href="#">598</a>	912.9998	1823.9850	1823.9782	3.77	0	22	0.25	1	K.VGINYQPPTVPPGGDLAK.V
<input checked="" type="checkbox"/>	<a href="#">635</a>	1004.4624	2006.9102	2006.8858	12.2	0	22	0.25	1	K.TIGGGDDSFNTFFSETGAGK.H

## Proteins matching the same set of peptides:

[IPI00117348](#) Mass: 50804 Score: 288 Queries matched: 21  
Tax\_Id=10090 Gene\_Symbol=Tubalb Tubulin alpha-1B chain  
[IPI00403810](#) Mass: 50562 Score: 288 Queries matched: 21  
Tax\_Id=10090 Gene\_Symbol=Tubalc Tubulin alpha-1C chain

11. [IPI00112584](#) Mass: 56961 Score: 284 Queries matched: 34 emPAI: 0.48  
Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit 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	
<a href="#">27</a>	588.3868	587.3795	587.3642	26.0	0	22	0.71	1	K.IINTK.K	
<a href="#">162</a>	539.2801	1076.5456	1076.5502	-4.23	0	(1)	72	5	K.IPTGQEYAAK.I	
<input checked="" type="checkbox"/>	<a href="#">163</a>	539.2836	1076.5526	2.27	0	24	0.38	1	K.IPTGQEYAAK.I	
<a href="#">164</a>	539.2836	1076.5526	1076.5502	2.27	0	(6)	21	2	K.IPTGQEYAAK.I	
<input checked="" type="checkbox"/>	<a href="#">183</a>	559.7768	1117.5390	1117.5444	-4.78	0	35	0.025	1	R.FYFENALSK.S
<input checked="" type="checkbox"/>	<a href="#">184</a>	559.7831	1117.5516	1117.5444	6.50	0	(11)	6.4	1	R.FYFENALSK.S
<a href="#">201</a>	574.3237	1146.6328	1146.6431	-8.91	0	(39)	0.0079	1	K.GAILTTMLATR.N	
<a href="#">202</a>	574.3245	1146.6344	1146.6431	-7.52	0	(51)	0.00057	1	K.GAILTTMLATR.N	
<a href="#">204</a>	574.3274	1146.6402	1146.6431	-2.46	0	(36)	0.014	1	K.GAILTTMLATR.N	
<a href="#">205</a>	574.3279	1146.6412	1146.6431	-1.59	0	(49)	0.00074	1	K.GAILTTMLATR.N	
<a href="#">206</a>	574.3290	1146.6434	1146.6431	0.33	0	(24)	0.21	1	K.GAILTTMLATR.N	
<a href="#">207</a>	574.3298	1146.6450	1146.6431	1.73	0	63	2.6e-005	1	K.GAILTTMLATR.N	
<a href="#">216</a>	582.3226	1162.6306	1162.6380	-6.31	0	(28)	0.097	1	K.GAILTTMLATR.N + Oxidation (M)	
<input checked="" type="checkbox"/>	<a href="#">312</a>	664.3106	1326.6066	1326.5948	8.93	0	38	0.0084	1	R.LTQYMDGSGMPK.T
<input checked="" type="checkbox"/>	<a href="#">313</a>	664.3110	1326.6074	1326.5948	9.53	0	(29)	0.071	1	R.LTQYMDGSGMPK.T
<input checked="" type="checkbox"/>	<a href="#">476</a>	809.8831	1617.7516	1617.7562	-2.84	0	(7)	11	1	R.FTDEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">477</a>	809.8839	1617.7532	1617.7562	-1.85	0	(36)	0.012	1	R.FTDEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">478</a>	809.8858	1617.7570	1617.7562	0.50	0	48	0.0009	1	R.FTDEYQLFEELGK.G
<a href="#">646</a>	694.3165	2079.9277	2079.9426	-7.15	0	(51)	0.0003	1	K.AGAYDFPSPWDVTPEAK.D	
<a href="#">647</a>	694.3185	2079.9337	2079.9426	-4.27	0	(60)	3.8e-005	1	K.AGAYDFPSPWDVTPEAK.D	
<a href="#">648</a>	1040.9807	2079.9468	2079.9426	2.07	0	(60)	4.5e-005	1	K.AGAYDFPSPWDVTPEAK.D	
<a href="#">649</a>	1040.9808	2079.9470	2079.9426	2.16	0	(43)	0.0021	1	K.AGAYDFPSPWDVTPEAK.D	
<a href="#">650</a>	1040.9817	2079.9488	2079.9426	3.03	0	(53)	0.0002	1	K.AGAYDFPSPWDVTPEAK.D	
<a href="#">651</a>	1040.9820	2079.9494	2079.9426	3.32	0	(56)	0.00011	1	K.AGAYDFPSPWDVTPEAK.D	
<a href="#">652</a>	1040.9820	2079.9494	2079.9426	3.32	0	(50)	0.00046	1	K.AGAYDFPSPWDVTPEAK.D	
<a href="#">653</a>	1040.9828	2079.9510	2079.9426	4.09	0	(45)	0.0013	1	K.AGAYDFPSPWDVTPEAK.D	
<a href="#">654</a>	1040.9838	2079.9530	2079.9426	5.05	0	74	1.9e-006	1	K.AGAYDFPSPWDVTPEAK.D	
<a href="#">655</a>	1040.9847	2079.9548	2079.9426	5.91	0	(34)	0.019	1	K.AGAYDFPSPWDVTPEAK.D	
<a href="#">696</a>	888.7555	2663.2447	2663.2755	-11.57	1	(27)	0.084	1	K.AGAYDFPSPWDVTPEAKDLINK.M	
<a href="#">697</a>	888.7577	2663.2513	2663.2755	-9.10	1	(8)	6.2	1	K.AGAYDFPSPWDVTPEAKDLINK.M	
<a href="#">698</a>	888.7581	2663.2525	2663.2755	-8.65	1	(5)	14	1	K.AGAYDFPSPWDVTPEAKDLINK.M	
<a href="#">699</a>	888.7607	2663.2603	2663.2755	-5.72	1	(22)	0.24	1	K.AGAYDFPSPWDVTPEAKDLINK.M	
<a href="#">701</a>	888.7623	2663.2651	2663.2755	-3.91	1	(8)	7.1	1	K.AGAYDFPSPWDVTPEAKDLINK.M	
<a href="#">703</a>	888.7635	2663.2687	2663.2755	-2.56	1	37	0.0079	1	K.AGAYDFPSPWDVTPEAKDLINK.M	

## Proteins matching the same set of peptides:

[IPI00406790](#) Mass: 60593 Score: 284 Queries matched: 34  
Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 4 of Calcium/calmodulin-dependent protein kinase type II subunit delta  
[IPI00475044](#) Mass: 55899 Score: 284 Queries matched: 34  
Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 2 of Calcium/calmodulin-dependent protein kinase type II subunit delta  
[IPI00828919](#) Mass: 58492 Score: 284 Queries matched: 34  
Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 3 of Calcium/calmodulin-dependent protein kinase type II subunit delta  
[IPI00857865](#) Mass: 54664 Score: 284 Queries matched: 34  
Tax\_Id=10090 Gene\_Symbol=Camk2d Putative uncharacterized protein  
[IPI00858128](#) Mass: 58283 Score: 284 Queries matched: 34  
Tax\_Id=10090 Gene\_Symbol=Camk2d calcium/calmodulin-dependent protein kinase type II subunit delta isoform 1  
[IPI00858144](#) Mass: 55828 Score: 284 Queries matched: 34  
Tax\_Id=10090 Gene\_Symbol=Camk2d 55 kDa protein

12. [IPI00608020](#) Mass: 20817 Score: 247 Queries matched: 6 emPAI: 0.35

Tax\_Id=10090 Gene\_Symbol=Ftl1 ferritin light chain 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"/>	<a href="#">125</a>	517.7652	1033.5158	1033.5192	-3.28	0	(39)	0.012	1	R.LLEFQNDR.G
<input checked="" type="checkbox"/>	<a href="#">126</a>	517.7660	1033.5174	1033.5192	-1.73	0	(35)	0.033	1	R.LLEFQNDR.G
<input checked="" type="checkbox"/>	<a href="#">128</a>	517.7683	1033.5220	1033.5192	2.72	0	46	0.0026	1	R.LLEFQNDR.G
<input checked="" type="checkbox"/>	<a href="#">686</a>	791.7253	2372.1541	2372.1761	-9.27	0	(73)	2.1e-006	1	R.VAGPQPAQTGAPQGSGLGEYLFER.L
<input checked="" type="checkbox"/>	<a href="#">687</a>	791.7254	2372.1544	2372.1761	-9.15	0	110	4.8e-010	1	R.VAGPQPAQTGAPQGSGLGEYLFER.L
<input checked="" type="checkbox"/>	<a href="#">688</a>	791.7254	2372.1544	2372.1761	-9.15	0	(92)	2.8e-008	1	R.VAGPQPAQTGAPQGSGLGEYLFER.L

## Proteins matching the same set of peptides:

[IPI00625129](#) Mass: 20783 Score: 247 Queries matched: 6  
Tax\_Id=10090 Gene\_Symbol=Ftl2 ferritin light chain 2  
[IPI00762203](#) Mass: 20847 Score: 247 Queries matched: 6  
Tax\_Id=10090 Gene\_Symbol=Ftl1 Ferritin light chain 1

13. [IPI00122928](#) Mass: 50514 Score: 219 Queries matched: 12 emPAI: 0.21

Tax\_Id=10090 Gene\_Symbol=Tubb6 Tubulin beta-6 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
<a href="#">191</a>	572.3217	1142.6288	1142.6270	1.59	0	69	1.1e-005	1	K.LAVNMVFPFR.L
<a href="#">192</a>	572.3229	1142.6312	1142.6270	3.69	0	(38)	0.013	1	K.LAVNMVFPFR.L
<a href="#">330</a>	676.3404	1350.6662	1350.6676	-0.98	0	(65)	2.1e-005	1	R.IMNTFVMPSPK.V
<a href="#">331</a>	676.3443	1350.6740	1350.6676	4.79	0	82	5.1e-007	1	R.IMNTFVMPSPK.V
<a href="#">332</a>	676.3445	1350.6744	1350.6676	5.09	0	(64)	3.2e-005	1	R.IMNTFVMPSPK.V
<a href="#">521</a>	846.4363	1690.8580	1690.8600	-1.16	0	(13)	3.3	2	R.ALTVPELTQQMFDAK.N
<a href="#">522</a>	846.4375	1690.8604	1690.8600	0.26	0	(34)	0.027	1	R.ALTVPELTQQMFDAK.N
<a href="#">523</a>	846.4381	1690.8616	1690.8600	0.97	0	(28)	0.099	1	R.ALTVPELTQQMFDAK.N
<a href="#">524</a>	846.4382	1690.8618	1690.8600	1.09	0	53	0.00034	1	R.ALTVPELTQQMFDAK.N
<a href="#">526</a>	848.9185	1695.8224	1695.8257	-1.89	0	12	3.8	1	K.NSSYFVWIPNVK.V
<a href="#">558</a>	854.4335	1706.8524	1706.8549	-1.45	0	(28)	0.11	2	R.ALTVPELTQQMFDAK.N + Oxidation (M)
<a href="#">560</a>	854.4359	1706.8572	1706.8549	1.36	0	(16)	1.5	2	R.ALTVPELTQQMFDAK.N + Oxidation (M)

14. [IPI00347110](#) Mass: 59502 Score: 208 Queries matched: 9 emPAI: 0.11

Tax\_Id=10090 Gene\_Symbol=Krt73 Keratin, type II cytoskeletal 73

 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"/> <a href="#">279</a>	639.3514	1276.6882	1276.7027	-11.29	0	(9)	9.3	1	K.LALDIEIATYR.K
<input checked="" type="checkbox"/> <a href="#">280</a>	639.3543	1276.6940	1276.7027	-6.75	0	(46)	0.0019	1	K.LALDIEIATYR.K
<input checked="" type="checkbox"/> <a href="#">281</a>	639.3561	1276.6976	1276.7027	-3.93	0	(47)	0.0012	1	K.LALDIEIATYR.K
<input checked="" type="checkbox"/> <a href="#">282</a>	639.3570	1276.6994	1276.7027	-2.52	0	54	0.00024	1	K.LALDIEIATYR.K
<input checked="" type="checkbox"/> <a href="#">283</a>	639.3654	1276.7162	1276.7027	10.6	0	(28)	0.071	1	K.LALDIEIATYR.K
<input checked="" type="checkbox"/> <a href="#">395</a>	738.3946	1474.7746	1474.7780	-2.26	0	(68)	9.4e-006	1	R.FLEQQNQVLQTK.W
<input checked="" type="checkbox"/> <a href="#">396</a>	738.3973	1474.7800	1474.7780	1.40	0	83	2.9e-007	1	R.FLEQQNQVLQTK.W
<input checked="" type="checkbox"/> <a href="#">397</a>	738.3979	1474.7812	1474.7780	2.21	0	(66)	1.6e-005	1	R.FLEQQNQVLQTK.W
<input checked="" type="checkbox"/> <a href="#">398</a>	738.3981	1474.7816	1474.7780	2.48	0	(43)	0.0036	1	R.FLEQQNQVLQTK.W

15. [IPI00122048](#) Mass: 113045 Score: 198 Queries matched: 8 emPAI: 0.12

Tax\_Id=10090 Gene\_Symbol=Atpla3 Sodium/potassium-transporting ATPase subunit alpha-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"/> <a href="#">246</a>	618.8546	1235.6946	1235.6986	-3.20	0	(54)	0.00019	1	R.LNIPVSVNPR.D
<input checked="" type="checkbox"/> <a href="#">247</a>	618.8594	1235.7042	1235.6986	4.56	0	66	9.5e-006	1	R.LNIPVSVNPR.D
<input checked="" type="checkbox"/> <a href="#">277</a>	634.8717	1267.7288	1267.7071	17.2	0	33	0.021	1	K.NMVPQALVIR.E
<input checked="" type="checkbox"/> <a href="#">595</a>	906.4749	1810.9352	1810.9425	-4.01	0	60	6.4e-005	1	R.QGAIVAVTGDGVNDSPALK.K
<input checked="" type="checkbox"/> <a href="#">596</a>	906.4772	1810.9398	1810.9425	-1.47	0	(56)	0.00013	1	R.QGAIVAVTGDGVNDSPALK.K
<input checked="" type="checkbox"/> <a href="#">600</a>	915.4284	1828.8422	1828.9167	-40.68	0	(6)	12	7	K.GVGIIEGNETVEDIAR.L
<input checked="" type="checkbox"/> <a href="#">603</a>	915.4561	1828.8976	1828.9167	-10.39	0	(52)	0.00038	1	K.GVGIIEGNETVEDIAR.L
<input checked="" type="checkbox"/> <a href="#">604</a>	915.4638	1828.9130	1828.9167	-1.97	0	70	6.2e-006	1	K.GVGIIEGNETVEDIAR.L

Proteins matching the same set of peptides:

[IPI00420569](#) Mass: 113457 Score: 198 Queries matched: 8

Tax\_Id=10090 Gene\_Symbol=Atpla2 Sodium/potassium-transporting ATPase subunit alpha-2

[IPI00752412](#) Mass: 117548 Score: 198 Queries matched: 8

Tax\_Id=10090 Gene\_Symbol=Atpla3 ATPase, Na+/K+ transporting, alpha 3 polypeptide, isoform CRA\_c

[IPI00762871](#) Mass: 104717 Score: 198 Queries matched: 8

Tax\_Id=10090 Gene\_Symbol=Atpla2 Uncharacterized protein

16. [IPI00138892](#) Mass: 15004 Score: 187 Queries matched: 5 emPAI: 0.23

Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin-60S ribosomal protein L40

 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"/> <a href="#">578</a>	894.4645	1786.9144	1786.9200	-3.11	0	(9)	8.9	1	K.TITLEVEPSDTIENVK.A
<input checked="" type="checkbox"/> <a href="#">579</a>	894.4648	1786.9150	1786.9200	-2.78	0	(62)	4.5e-005	1	K.TITLEVEPSDTIENVK.A
<input checked="" type="checkbox"/> <a href="#">580</a>	894.4680	1786.9214	1786.9200	0.80	0	(67)	1.2e-005	1	K.TITLEVEPSDTIENVK.A
<input checked="" type="checkbox"/> <a href="#">581</a>	894.4692	1786.9238	1786.9200	2.15	0	(77)	1.4e-006	1	K.TITLEVEPSDTIENVK.A
<input checked="" type="checkbox"/> <a href="#">582</a>	894.4696	1786.9246	1786.9200	2.59	0	80	6e-007	1	K.TITLEVEPSDTIENVK.A

Proteins matching the same set of peptides:

[IPI00470152](#) Mass: 18282 Score: 187 Queries matched: 5

Tax\_Id=10090 Gene\_Symbol=Rps27a Ubiquitin-40S ribosomal protein S27a

[IPI00895319](#) Mass: 22277 Score: 187 Queries matched: 5

Tax\_Id=10090 Gene\_Symbol=2810422J05Rik 22 kDa protein

[IPI00895479](#) Mass: 27181 Score: 187 Queries matched: 5

Tax\_Id=10090 Gene\_Symbol=2810422J05Rik 27 kDa protein

[IPI00918763](#) Mass: 11021 Score: 187 Queries matched: 5

Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin subunit 1

[IPI00750889](#) Mass: 22822 Score: 187 Queries matched: 5

Tax\_Id=10090 Gene\_Symbol=Ubc Ubc protein

[IPI00923013](#) Mass: 26603 Score: 187 Queries matched: 5

Tax\_Id=10090 Gene\_Symbol=Ubb Ubiquitin B

[IPI00923037](#) Mass: 22578 Score: 187 Queries matched: 5

Tax\_Id=10090 Gene\_Symbol=Ubc Putative uncharacterized protein

[IPI00139518](#) Mass: 34348 Score: 187 Queries matched: 5

Tax\_Id=10090 Gene\_Symbol=Ubb Polyubiquitin-B

[IPI00755916](#) Mass: 82614 Score: 187 Queries matched: 5

Tax\_Id=10090 Gene\_Symbol=Ubc ubiquitin  
[IPI00969323](#) Mass: 82603 Score: 187 Queries matched: 5  
 Tax\_Id=10090 Gene\_Symbol=Ubc Polyubiquitin-C

17. [IPI00625729](#) Mass: 66079 Score: 175 Queries matched: 5 emPAI: 0.10  
 Tax\_Id=10090 Gene\_Symbol=Krt1 Keratin, type II cytoskeletal 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"/> <a href="#">273</a>	633.3264	1264.6382	1264.6299	6.59	0	44	0.003	1	R.TNAENEFVTIK.K
<input checked="" type="checkbox"/> <a href="#">395</a>	738.3946	1474.7746	1474.7780	-2.26	0	(68)	9.4e-006	1	R.FLEQQNQVLQTK.W
<input checked="" type="checkbox"/> <a href="#">396</a>	738.3973	1474.7800	1474.7780	1.40	0	83	2.9e-007	1	R.FLEQQNQVLQTK.W
<input checked="" type="checkbox"/> <a href="#">397</a>	738.3979	1474.7812	1474.7780	2.21	0	(66)	1.6e-005	1	R.FLEQQNQVLQTK.W
<input checked="" type="checkbox"/> <a href="#">398</a>	738.3981	1474.7816	1474.7780	2.48	0	(43)	0.0036	1	R.FLEQQNQVLQTK.W

18. [IPI00136703](#) Mass: 42971 Score: 160 Queries matched: 5 emPAI: 0.08  
 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"/> <a href="#">302</a>	652.3596	1302.7046	1302.7183	-10.50	0	(72)	4.6e-006	1	K.VLTPELYAELR.A
<input checked="" type="checkbox"/> <a href="#">303</a>	652.3610	1302.7074	1302.7183	-8.35	0	(58)	0.00011	1	K.VLTPELYAELR.A
<input checked="" type="checkbox"/> <a href="#">304</a>	652.3613	1302.7080	1302.7183	-7.89	0	90	6e-008	1	K.VLTPELYAELR.A
<input checked="" type="checkbox"/> <a href="#">462</a>	801.9241	1601.8336	1601.8260	4.74	0	20	0.73	1	K.LAVEALSSLDGDLGR.V
<input checked="" type="checkbox"/> <a href="#">517</a>	828.9160	1655.8174	1655.8188	-0.85	0	3		29	R.LEQQQAIDDLMPAQK.-

19. [IPI00110850](#) Mass: 42052 Score: 157 Queries matched: 11 emPAI: 0.35  
 Tax\_Id=10090 Gene\_Symbol=Actb Actin, cytoplasmic 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"/> <a href="#">213</a>	581.3192	1160.6238	1160.6111	11.0	0	43	0.004	1	K.EITALAPSTMK.I	
<input checked="" type="checkbox"/> <a href="#">214</a>	581.3192	1160.6238	1160.6111	11.0	0	(22)	0.51	1	K.EITALAPSTMK.I	
<input checked="" type="checkbox"/> <a href="#">227</a>	599.7656	1197.5166	1197.5150	1.41	0	46	0.00079	1	K.DSYVGDQAQSK.R	
<input checked="" type="checkbox"/> <a href="#">583</a>	895.9476	1789.8806	1789.8846	-2.22	0	(40)	0.0058	1	K.SYELPDGQVITIGNER.F	
<input checked="" type="checkbox"/> <a href="#">584</a>	895.9503	1789.8860	1789.8846	0.79	0	(55)	0.00017	1	K.SYELPDGQVITIGNER.F	
<input checked="" type="checkbox"/> <a href="#">585</a>	895.9514	1789.8882	1789.8846	2.02	0	93	2.7e-008	1	K.SYELPDGQVITIGNER.F	
<input checked="" type="checkbox"/> <a href="#">613</a>	652.0187	1953.0343	1953.0571	-11.69	0	(15)		1.3	2	R.VAPEEHPVLLTEAPLNPK.A
<input checked="" type="checkbox"/> <a href="#">614</a>	652.0188	1953.0346	1953.0571	-11.53	0	31	0.034	2	R.VAPEEHPVLLTEAPLNPK.A	
<input checked="" type="checkbox"/> <a href="#">615</a>	652.0193	1953.0361	1953.0571	-10.77	0	(21)	0.39	1	R.VAPEEHPVLLTEAPLNPK.A	
<input checked="" type="checkbox"/> <a href="#">616</a>	652.0218	1953.0436	1953.0571	-6.93	0	(7)		8.3	1	R.VAPEEHPVLLTEAPLNPK.A
<input checked="" type="checkbox"/> <a href="#">618</a>	652.0227	1953.0463	1953.0571	-5.54	0	(19)		0.5	1	R.VAPEEHPVLLTEAPLNPK.A

Proteins matching the same set of peptides:

[IPI00136929](#) Mass: 44029 Score: 157 Queries matched: 11  
 Tax\_Id=10090 Gene\_Symbol=Actg1 Gamma actin-like protein  
[IPI00473320](#) Mass: 42115 Score: 157 Queries matched: 11  
 Tax\_Id=10090 Gene\_Symbol=Actb Putative uncharacterized protein  
[IPI00652436](#) Mass: 42053 Score: 157 Queries matched: 11  
 Tax\_Id=10090 Gene\_Symbol=Actg1 Putative uncharacterized protein  
[IPI00874482](#) Mass: 42108 Score: 157 Queries matched: 11  
 Tax\_Id=10090 Gene\_Symbol=Actg1 Actin, cytoplasmic 2

20. [IPI00221797](#) Mass: 59932 Score: 155 Queries matched: 7 emPAI: 0.05  
 Tax\_Id=10090 Gene\_Symbol=Krt75 Keratin, type II cytoskeletal 75

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"/> <a href="#">288</a>	651.8494	1301.6842	1301.7078	-18.11	0	(7)		15	1	R.SLDLDSIIAEVK.A
<input checked="" type="checkbox"/> <a href="#">289</a>	651.8604	1301.7062	1301.7078	-1.21	0	(30)	0.062	1	R.SLDLDSIIAEVK.A	
<input checked="" type="checkbox"/> <a href="#">290</a>	651.8617	1301.7088	1301.7078	0.79	0	(61)	4.8e-005	1	R.SLDLDSIIAEVK.A	
<input checked="" type="checkbox"/> <a href="#">291</a>	651.8624	1301.7102	1301.7078	1.86	0	(59)	7.4e-005	1	R.SLDLDSIIAEVK.A	
<input checked="" type="checkbox"/> <a href="#">292</a>	651.8624	1301.7102	1301.7078	1.86	0	(63)	3.1e-005	1	R.SLDLDSIIAEVK.A	
<input checked="" type="checkbox"/> <a href="#">293</a>	651.8641	1301.7136	1301.7078	4.47	0	63	2.9e-005	1	R.SLDLDSIIAEVK.A	
<input checked="" type="checkbox"/> <a href="#">399</a>	738.8942	1475.7738	1475.7984	-16.62	1	4		26	1	R.FLEQQNKVLETK.W

21. [IPI00348328](#) Mass: 114018 Score: 142 Queries matched: 6 emPAI: 0.03  
 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"/> <a href="#">114</a>	504.7170	1007.4194	1007.4528	-33.13	0	5		7.8	1	K.QDMAQMLR.D + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">345</a>	692.3474	1382.6802	1382.6830	-2.00	0	(60)	6.9e-005	1	R.SLNNQFASFIDK.V	
<input checked="" type="checkbox"/> <a href="#">346</a>	692.3569	1382.6992	1382.6830	11.7	0	(49)	0.00093	1	R.SLNNQFASFIDK.V	
<input checked="" type="checkbox"/> <a href="#">347</a>	692.3570	1382.6994	1382.6830	11.9	0	61	6.2e-005	1	R.SLNNQFASFIDK.V	
<input checked="" type="checkbox"/> <a href="#">348</a>	692.3643	1382.7140	1382.6830	22.4	0	(49)	0.00089	1	R.SLNNQFASFIDK.V	
<input checked="" type="checkbox"/> <a href="#">399</a>	738.8942	1475.7738	1475.7984	-16.62	1	4		26	1	R.FLEQQNKVLETK.W

22. [IPI00322209](#) Mass: 54531 Score: 142 Queries matched: 4 emPAI: 0.06  
 Tax\_Id=10090 Gene\_Symbol=Krt8 Keratin, type II cytoskeletal 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
<a href="#">345</a>	692.3474	1382.6802	1382.7194	-28.31	1	(60)	6.9e-005	1	K.SLNKPFASFDK.V
<a href="#">346</a>	692.3569	1382.6992	1382.7194	-14.57	1	(49)	0.00093	1	K.SLNKPFASFDK.V
<a href="#">347</a>	692.3570	1382.6994	1382.7194	-14.42	1	61	6.2e-005	1	K.SLNKPFASFDK.V
<a href="#">348</a>	692.3643	1382.7140	1382.7194	-3.86	1	(49)	0.00089	1	K.SLNKPFASFDK.V

23. [IPI00221528](#) Mass: 42319 Score: 126 Queries matched: 8 emPAI: 0.16

Tax\_Id=10090 Gene\_Symbol=Actb12 Beta-actin-like 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
<a href="#">583</a>	895.9476	1789.8806	1789.8846	-2.22	0	(40)	0.0058	1	R.SYELPDGQVITIGNER.F
<a href="#">584</a>	895.9503	1789.8860	1789.8846	0.79	0	(55)	0.00017	1	R.SYELPDGQVITIGNER.F
<a href="#">585</a>	895.9514	1789.8882	1789.8846	2.02	0	93	2.7e-008	1	R.SYELPDGQVITIGNER.F
<input checked="" type="checkbox"/> <a href="#">613</a>	652.0187	1953.0343	1953.0571	-11.69	0	(16)	1.2	1	R.VAPDEHPILLTEAPLNPK.I
<input checked="" type="checkbox"/> <a href="#">614</a>	652.0188	1953.0346	1953.0571	-11.53	0	32	0.03	1	R.VAPDEHPILLTEAPLNPK.I
<a href="#">615</a>	652.0193	1953.0361	1953.0571	-10.77	0	(13)	2.3	2	R.VAPDEHPILLTEAPLNPK.I
<a href="#">616</a>	652.0218	1953.0436	1953.0571	-6.93	0	(5)	15	3	R.VAPDEHPILLTEAPLNPK.I
<a href="#">618</a>	652.0227	1953.0463	1953.0571	-5.54	0	(16)	1.1	2	R.VAPDEHPILLTEAPLNPK.I

24. [IPI00124499](#) Mass: 57802 Score: 105 Queries matched: 5 emPAI: 0.06

Tax\_Id=10090 Gene\_Symbol=Krt79 Keratin, type II cytoskeletal 79

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"/> <a href="#">314</a>	665.3632	1328.7118	1328.7187	-5.17	0	(34)	0.025	1	R.NLDDLIIAEVK.A
<input checked="" type="checkbox"/> <a href="#">315</a>	665.3666	1328.7186	1328.7187	-0.05	0	73	2.9e-006	1	R.NLDDLIIAEVK.A
<input checked="" type="checkbox"/> <a href="#">316</a>	665.3679	1328.7212	1328.7187	1.90	0	(41)	0.0055	1	R.NLDDLIIAEVK.A
<input checked="" type="checkbox"/> <a href="#">317</a>	665.3680	1328.7214	1328.7187	2.05	0	(42)	0.0038	1	R.NLDDLIIAEVK.A
<a href="#">399</a>	738.8942	1475.7738	1475.7984	-16.62	1	4	26	1	R.FLEQQNKVLETK.W

25. [IPI00230145](#) Mass: 21224 Score: 88 Queries matched: 3 emPAI: 0.16

Tax\_Id=10090 Gene\_Symbol=Fth1 Ferritin heavy 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
<a href="#">79</a>	438.7601	875.5056	875.5116	-6.85	0	7	12	5	R.IFLQDIK.K
<input checked="" type="checkbox"/> <a href="#">487</a>	815.3727	1628.7308	1628.7214	5.78	0	(45)	0.0012	1	K.MGAPEAGMAEYLFDK.H
<input checked="" type="checkbox"/> <a href="#">488</a>	815.3737	1628.7328	1628.7214	7.01	0	75	1.3e-006	1	K.MGAPEAGMAEYLFDK.H

26. [IPI00406377](#) Mass: 50678 Score: 82 Queries matched: 6 emPAI: 0.06

Tax\_Id=10090 Gene\_Symbol=Krt7 Keratin, type II cytoskeletal 7

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

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">104</a>	487.2706	972.5266	972.5352	-8.81	1	10	9.1	8	K.SAKSSQLPR.I
<a href="#">279</a>	639.3514	1276.6882	1276.7027	-11.29	0	(9)	9.3	1	K.LALDIEIATYR.K
<a href="#">280</a>	639.3543	1276.6940	1276.7027	-6.75	0	(46)	0.0019	1	K.LALDIEIATYR.K
<a href="#">281</a>	639.3561	1276.6976	1276.7027	-3.93	0	(47)	0.0012	1	K.LALDIEIATYR.K
<a href="#">282</a>	639.3570	1276.6994	1276.7027	-2.52	0	54	0.00024	1	K.LALDIEIATYR.K
<a href="#">283</a>	639.3654	1276.7162	1276.7027	10.6	0	(28)	0.071	1	K.LALDIEIATYR.K

27. [IPI00222228](#) Mass: 58587 Score: 82 Queries matched: 6 emPAI: 0.06

Tax\_Id=10090 Gene\_Symbol=4732456N10Rik hypothetical protein LOC239673

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

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">279</a>	639.3514	1276.6882	1276.7027	-11.29	0	(9)	9.3	1	K.LALDIEIATYR.K
<a href="#">280</a>	639.3543	1276.6940	1276.7027	-6.75	0	(46)	0.0019	1	K.LALDIEIATYR.K
<a href="#">281</a>	639.3561	1276.6976	1276.7027	-3.93	0	(47)	0.0012	1	K.LALDIEIATYR.K
<a href="#">282</a>	639.3570	1276.6994	1276.7027	-2.52	0	54	0.00024	1	K.LALDIEIATYR.K
<a href="#">283</a>	639.3654	1276.7162	1276.7027	10.6	0	(28)	0.071	1	K.LALDIEIATYR.K
<a href="#">399</a>	738.8942	1475.7738	1475.7984	-16.62	1	4	26	1	R.FLEQQNKVLETK.W

28. [IPI00135284](#) Mass: 36092 Score: 78 Queries matched: 7 emPAI: 0.19

Tax\_Id=10090 Gene\_Symbol=Gml6374 Glyceraldehyde-3-phosphate dehydrogenase

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"/> <a href="#">333</a>	678.8232	1355.6318	1355.6465	-10.80	1	(21)	0.41	1	R.VVDLMAYMASKE.-
<input checked="" type="checkbox"/> <a href="#">334</a>	678.8466	1355.6786	1355.6465	23.7	1	43	0.0032	1	R.VVDLMAYMASKE.-
<input checked="" type="checkbox"/> <a href="#">335</a>	685.3756	1368.7366	1368.7361	0.40	0	(50)	0.00057	1	R.GAAQNIIPASTGAAK.A
<input checked="" type="checkbox"/> <a href="#">336</a>	685.3767	1368.7388	1368.7361	2.01	0	(39)	0.0079	1	R.GAAQNIIPASTGAAK.A
<input checked="" type="checkbox"/> <a href="#">337</a>	685.3770	1368.7394	1368.7361	2.45	0	(20)	0.53	1	R.GAAQNIIPASTGAAK.A
<input checked="" type="checkbox"/> <a href="#">338</a>	685.3795	1368.7444	1368.7361	6.10	0	58	9.3e-005	1	R.GAAQNIIPASTGAAK.A
<input checked="" type="checkbox"/> <a href="#">573</a>	890.4178	1778.8210	1778.7900	17.5	0	25	0.17	1	K.LISWYDNEYGYSNR.V

Proteins matching the same set of peptides:

[IPI00271869](#) Mass: 36293 Score: 78 Queries matched: 7

Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein



[IPI00273646](#) Mass: 36072 Score: 78 Queries matched: 7  
 Tax\_Id=10090 Gene\_Symbol=Gapdh;LOC100042025 Glyceraldehyde-3-phosphate dehydrogenase  
[IPI00622795](#) Mass: 36074 Score: 78 Queries matched: 7  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00752289](#) Mass: 36308 Score: 78 Queries matched: 7  
 Tax\_Id=10090 Gene\_Symbol=Gm10290 Glyceraldehyde-3-phosphate dehydrogenase  
[IPI00848801](#) Mass: 36100 Score: 78 Queries matched: 7  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00849045](#) Mass: 36072 Score: 78 Queries matched: 7  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00850337](#) Mass: 44633 Score: 78 Queries matched: 7  
 Tax\_Id=10090 Gene\_Symbol=LOC100048117 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1  
[IPI00850377](#) Mass: 35975 Score: 78 Queries matched: 7  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00850779](#) Mass: 36076 Score: 78 Queries matched: 7  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00874682](#) Mass: 36038 Score: 78 Queries matched: 7  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00874964](#) Mass: 36512 Score: 78 Queries matched: 7  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein

29. [IPI00134997](#) Mass: 106777 Score: 78 Queries matched: 1 emPAI: 0.03

Tax\_Id=10090 Gene\_Symbol=Dlgap3 Disks large-associated protein 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"/> <a href="#">405</a>	751.8646	1501.7146	1501.7274	-8.46	0	78	1e-006	1	R.GPAGPGPGSGAAPEAR.S

Proteins matching the same set of peptides:

[IPI00648401](#) Mass: 105576 Score: 78 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Dlgap3 Discs, large (Drosophila) homolog-associated protein 3

30. [IPI00348094](#) Mass: 51093 Score: 75 Queries matched: 6 emPAI: 0.06

Tax\_Id=10090 Gene\_Symbol=Tubbl1 Tubulin, 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
<a href="#">191</a>	572.3217	1142.6288	1142.6270	1.59	0	69	1.1e-005	1	K.LAVNMVPPFR.L
<a href="#">192</a>	572.3229	1142.6312	1142.6270	3.69	0	(38)	0.013	1	K.LAVNMVPPFR.L
<a href="#">308</a>	660.3503	1318.6860	1318.6955	-7.16	0	(11)	5.8	2	R.ILNSFSVMPSPK.V
<a href="#">309</a>	660.3552	1318.6958	1318.6955	0.27	0	(13)	4.1	2	R.ILNSFSVMPSPK.V
<a href="#">310</a>	660.3563	1318.6980	1318.6955	1.94	0	21	0.63	2	R.ILNSFSVMPSPK.V
<a href="#">311</a>	660.3572	1318.6998	1318.6955	3.30	0	(16)	1.9	2	R.ILNSFSVMPSPK.V

31. [IPI00115546](#) Mass: 40524 Score: 70 Queries matched: 5 emPAI: 0.17

Tax\_Id=10090 Gene\_Symbol=Gnaol Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) 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"/> <a href="#">150</a>	529.3204	1056.6262	1056.6179	7.91	0	45	0.0019	1	K.LLLLGAGESGK.S
<input checked="" type="checkbox"/> <a href="#">520</a>	838.4207	1674.8268	1674.8213	3.31	0	55	0.00023	1	R.IGAGDYQPTQDILR.T
<input checked="" type="checkbox"/> <a href="#">621</a>	979.4400	1956.8654	1956.8631	1.21	0	(7)	5.7	1	R.MEDTEFFSAELLSAMMR.L
<input checked="" type="checkbox"/> <a href="#">622</a>	979.4463	1956.8780	1956.8631	7.65	0	(5)	11	1	R.MEDTEFFSAELLSAMMR.L
<input checked="" type="checkbox"/> <a href="#">623</a>	979.4526	1956.8906	1956.8631	14.1	0	10	4.2	1	R.MEDTEFFSAELLSAMMR.L

Proteins matching the same set of peptides:

[IPI00230192](#) Mass: 40629 Score: 70 Queries matched: 5  
 Tax\_Id=10090 Gene\_Symbol=Gnaol Isoform Alpha-1 of Guanine nucleotide-binding protein G(o) subunit alpha

32. [IPI00122094](#) Mass: 85656 Score: 65 Queries matched: 3 emPAI: 0.08

Tax\_Id=10090 Gene\_Symbol=Dlg4 Isoform 2 of Disks large homolog 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"/> <a href="#">185</a>	563.2996	1124.5846	1124.5938	-8.15	0	46	0.0019	1	K.IIPGAAAQDGR.L
<input checked="" type="checkbox"/> <a href="#">561</a>	857.9614	1713.9082	1713.9090	-0.44	0	42	0.0032	1	R.VIEDLSGPIYIWPVPE.E
<input checked="" type="checkbox"/> <a href="#">562</a>	857.9666	1713.9186	1713.9090	5.63	0	(26)	0.13	1	R.VIEDLSGPIYIWPVPE.E

Proteins matching the same set of peptides:

[IPI00622720](#) Mass: 80765 Score: 65 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Dlg4 Isoform 1 of Disks large homolog 4  
[IPI00626797](#) Mass: 80395 Score: 65 Queries matched: 3  
 Tax\_Id=10090 Gene\_Symbol=Dlg4 Isoform 3 of Disks large homolog 4

33. [IPI00119667](#) Mass: 50764 Score: 53 Queries matched: 1 emPAI: 0.06

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"/> <a href="#">116</a>	513.3045	1024.5944	1024.6030	-8.30	0	53	0.00015	1	K.IGGIGTVVGR.V

Proteins matching the same set of peptides:

[IPI00307837](#) Mass: 50424 Score: 53 Queries matched: 1

Tax\_Id=10090 Gene\_Symbol=Eef1a1 Elongation factor 1-alpha 1

34. [IPI00135197](#) Score: 53 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Krt20 Keratin, type I cytoskeletal 20  
 Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">170</a>	545.7681	1089.5216	1089.5237	-1.85	0	47	0.0016	2	K.LAMQNLNDR.L + Oxidation (M)
<a href="#">171</a>	545.7692	1089.5238	1089.5237	0.17	0	(45)	0.0024	2	K.LAMQNLNDR.L + Oxidation (M)

35. [IPI00467833](#) Mass: 32684 Score: 45 Queries matched: 1 emPAI: 0.10  
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"/> <a href="#">249</a>	624.2955	1246.5764	1246.5902	-11.03	0	45	0.0017	1	K.SNVNDGVAQSTR.I

36. [IPI00118569](#) Mass: 44369 Score: 45 Queries matched: 1 emPAI: 0.07  
Tax\_Id=10090 Gene\_Symbol=Gna13 Guanine nucleotide-binding protein subunit alpha-13  
 Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">150</a>	529.3204	1056.6262	1056.6179	7.91	0	45	0.0019	1	K.ILLLGAGESGK.S

Proteins matching the same set of peptides:

<a href="#">IPI00230191</a>	Mass: 44238	Score: 45	Queries matched: 1
Tax_Id=10090 Gene_Symbol=Gna12 Guanine nucleotide-binding protein subunit alpha-12			
<a href="#">IPI00649388</a>	Mass: 20095	Score: 45	Queries matched: 1
Tax_Id=10090 Gene_Symbol=Gna13 Putative uncharacterized protein			

37. [IPI00462072](#) Mass: 47453 Score: 44 Queries matched: 1 emPAI: 0.07  
Tax\_Id=10090 Gene\_Symbol=Enol;Gm5506 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"/> <a href="#">362</a>	720.3760	1438.7374	1438.7344	2.14	0	44	0.0025	1	R.YITPDQLADLYK.S

Proteins matching the same set of peptides:

<a href="#">IPI00648821</a>	Mass: 40099	Score: 44	Queries matched: 1
Tax_Id=10090 Gene_Symbol=Enol Enolase			

38. [IPI00120793](#) Mass: 28131 Score: 41 Queries matched: 2 emPAI: 0.12  
Tax\_Id=10090 Gene\_Symbol=Prnp Major prion 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"/> <a href="#">166</a>	544.7459	1087.4772	1087.4570	18.6	0	8	5.6	1	K.ESQAYYDGR.R
<input checked="" type="checkbox"/> <a href="#">189</a>	570.2626	1138.5106	1138.5142	-3.15	0	41	0.0039	1	K.GENFTETDVK.M

39. [IPI00113410](#) Mass: 38586 Score: 40 Queries matched: 2 emPAI: 0.09  
Tax\_Id=10090 Gene\_Symbol=Hapln2 Hyaluronan and proteoglycan link 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"/> <a href="#">354</a>	696.3665	1390.7184	1390.7245	-4.35	0	40	0.0065	1	R.LEGVVFFYPQPSR.G
<input checked="" type="checkbox"/> <a href="#">355</a>	696.3699	1390.7252	1390.7245	0.54	0	(29)	0.092	1	R.LEGVVFFYPQPSR.G

40. [IPI00622240](#) Mass: 71336 Score: 39 Queries matched: 5 emPAI: 0.05  
Tax\_Id=10090 Gene\_Symbol=Krt2 Keratin, type II cytoskeletal 2 epidermal  
 Check to include this hit in error tolerant search or archive report

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">182</a>	556.7426	1111.4706	1111.4643	5.72	0	0	24	9	R.GSGGGYGGSGGSR.G
<input checked="" type="checkbox"/> <a href="#">222</a>	590.3031	1178.5916	1178.6183	-22.60	0	(23)	0.42	1	K.YEELQVTAVK.H
<input checked="" type="checkbox"/> <a href="#">223</a>	590.3059	1178.5972	1178.6183	-17.85	0	(32)	0.054	1	K.YEELQVTAVK.H
<input checked="" type="checkbox"/> <a href="#">224</a>	590.3073	1178.6000	1178.6183	-15.47	0	35	0.025	1	K.YEELQVTAVK.H
<input checked="" type="checkbox"/> <a href="#">251</a>	627.8073	1253.6000	1253.6001	-0.00	0	39	0.01	1	R.GFSSGSAVVVSGSR.R

Proteins matching the same set of peptides:

<a href="#">IPI00875096</a>	Mass: 71035	Score: 39	Queries matched: 5
Tax_Id=10090 Gene_Symbol=Krt2 71 kDa protein			

Peptide matches not assigned to protein hits: (no details means no match)

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<input checked="" type="checkbox"/> <a href="#">250</a>	626.3681	1250.7216	1250.7347	-10.42	0	36	0.0076	1	GVAGAPPTVTLR
<input checked="" type="checkbox"/> <a href="#">305</a>	656.3151	1310.6156	1310.5999	12.0	0	35	0.018	1	QMYMLPQGEK
<input checked="" type="checkbox"/> <a href="#">132</a>	520.2753	1038.5360	1038.5458	-9.37	0	34	0.028	1	AQASAPAQAPK
<input checked="" type="checkbox"/> <a href="#">229</a>	614.8425	1227.6704	1227.6711	-0.50	0	33	0.033	1	TSGPPVSELITK
<input checked="" type="checkbox"/> <a href="#">136</a>	523.2849	1044.5552	1044.5564	-1.06	0	30	0.094	1	INDITLNSR
<input checked="" type="checkbox"/> <a href="#">208</a>	578.8143	1155.6140	1155.6135	0.45	0	30	0.073	1	SLPNEEIVQK

104	487.2706	972.5266	972.5240	2.74	0	29	0.12	1	EIISEVQR
159	533.2659	1064.5172	1064.5138	3.23	0	28	0.11	1	AQYEDIAQK
133	520.2761	1038.5376	1038.5458	-7.83	0	28	0.11	1	AQASAPAQPK
230	614.8445	1227.6744	1227.6711	2.75	0	25	0.23	1	TSGPPVSELTIK
252	628.8171	1255.6196	1255.6157	3.16	0	25	0.23	1	GGSGQEAUGELPR
71	435.7725	869.5304	869.4971	38.4	0	25	0.14	1	AVVESLPR
231	614.8458	1227.6770	1227.6711	4.87	0	25	0.24	1	TSGPPVSELTIK
160	533.2675	1064.5204	1064.5138	6.24	0	21	0.6	1	AQYEDIAQK
134	523.2794	1044.5442	1044.5564	-11.59	0	20	0.87	1	INDITLNSR
237	616.7883	1231.5620	1231.5680	-4.86	0	20	0.57	1	AVIESDEEQGR
105	487.2718	972.5290	972.5240	5.20	0	19	1.1	1	EIISEVQR
84	449.2162	896.4178	896.4214	-4.02	0	19	0.62	1	MWLEFR + Oxidation (M)
66	428.7654	855.5162	855.5542	-44.32	0	19	0.62	1	TLAVLALR
358	698.8622	1395.7098	1395.6630	33.6	0	19	0.92	1	ALGTSDEPGAEPFR
165	543.3147	1084.6148	1084.5811	31.1	1	18	0.99	1	EAIRLAPCR
112	496.2298	990.4450	990.4883	-43.65	0	17	0.94	1	AFSSHSSLR
357	698.8580	1395.7014	1395.6630	27.5	0	17	1.2	1	ALGTSDEPGAEPFR
437	785.8483	1569.6820	1569.7531	-45.25	0	17	0.57	1	SLMQCAGESISLTK
479	810.3789	1618.7432	1618.7331	6.26	0	17	1	1	SSSMVLGSGFTDLMR + 2 Oxidation (M)
56	412.7523	823.4900	823.4817	10.2	0	17	0.53	1	RPWLPR
360	472.9068	1415.6986	1415.7521	-37.80	1	17	1.6	1	ELARWIGVTESR
13	475.2986	474.2913	474.2802	23.5	0	17	2.5	1	LGGTK
684	786.0964	2355.2674	2355.2012	28.1	0	17	0.76	1	QALQFAFVIVIEQVGTQPFNR
89	450.7500	899.4854	899.5076	-24.63	1	16	1.9	1	GAPKESALK
212	581.2999	1160.5852	1160.5543	26.7	1	16	2.6	1	AAPGRMCSVGR
624	656.6460	1966.9162	1966.9669	-25.81	1	16	1.3	1	ALVAMNESLKSQEQEFK + Oxidation (M)
370	730.9049	1459.7952	1459.7453	34.2	1	15	1.6	1	VDILENRVMDTR
210	579.3053	1156.5960	1156.6353	-33.92	0	15	2.6	1	VVSWNINGIR
158	533.2621	1064.5096	1064.5138	-3.91	0	15	2.5	1	AQYEDIAQK
41	327.7021	653.3896	653.3609	44.0	0	14	0.98	1	ALGTHR
113	499.2547	996.4948	996.5352	-40.53	0	14	2.5	1	IGTQPPAASR
172	546.7492	1091.4838	1091.5281	-40.52	0	14	1.8	1	TLLMENAER + Oxidation (M)
94	460.2562	918.4978	918.4705	29.8	1	14	4.1	1	EVTGAMRR
82	443.7305	885.4464	885.4304	18.1	1	14	2.4	1	KDPNAEGR
25	574.3228	573.3155	573.3122	5.78	0	13	6.1	1	DIQAK
521	846.4363	1690.8580	1690.8084	29.4	1	13	3	1	MTSTTPPGEDIKSSPK + Oxidation (M)
369	730.9024	1459.7902	1459.7453	30.8	1	13	2.7	1	VDILENRVMDTR
122	517.2615	1032.5084	1032.4724	35.0	0	13	4	1	VLDEEGSER
219	585.3231	1168.6316	1168.6492	-15.03	1	13	2.9	1	KVSSFDVFLK
236	616.3319	1230.6492	1230.6245	20.1	0	13	4.1	1	AWVEQEGVSVK
763	1019.4843	4073.9081	4074.0473	-34.18	1	13	0.98	1	SSLISARLISMDDLSSAAPLSSALVHSSAQLSCRDPDR + Oxidation (M)
79	438.7601	875.5056	875.4786	30.9	1	13	2.9	1	KMDELLK
123	517.2618	1032.5090	1032.4724	35.5	0	13	4.4	1	VLDEEGSER
55	412.7522	823.4898	823.4817	9.93	0	13	1.4	1	RPWLPR
177	554.2685	1106.5224	1106.5251	-2.38	1	13	3.7	1	SGCGLTRSNR
286	647.3292	1292.6438	1292.6336	7.96	0	13	4.2	1	TFNAPWMALAR + Oxidation (M)
67	428.7656	855.5166	855.5178	-1.34	0	12	2.9	1	LLSTPGLR
325	672.3442	1342.6738	1342.6729	0.73	0	11	5.3	1	QDVTLEPSPTR
77	437.7505	873.4864	873.4807	6.55	0	11	7.8	1	VAVEELSK
74	435.7740	869.5334	869.5123	24.3	0	11	2.9	1	VSLWLPR
73	435.7737	869.5328	869.5123	23.6	0	11	3	1	VSLWLPR
269	631.7998	1261.5850	1261.5826	1.92	0	11	4.7	1	EALVDWSGEK
146	529.2684	1056.5222	1056.5464	-22.90	1	11	5.3	1	HELFPREAR
65	428.7642	855.5138	855.5112	3.04	1	11	4.3	1	ALRMLPR
127	517.7664	1033.5182	1033.5338	-15.09	1	11	8.4	1	CISRTEIR
97	461.2222	920.4298	920.4716	-45.31	0	10	7	1	ISAAGYPSR
431	785.8430	1569.6714	1569.7254	-34.40	1	10	2.5	1	MSVFPDRDMMVMR + Oxidation (M)
62	421.7567	841.4988	841.4810	21.2	0	10	5.1	1	AVLTPWR
380	738.3709	1474.7272	1474.6787	32.9	1	10	6.8	1	VDTEPKAEASGDK
274	634.3513	1266.6880	1266.7084	-16.09	1	10	5.1	1	LYLGRVVEVR
162	539.2801	1076.5456	1076.5648	-17.79	1	10	8.8	1	MIGERNITK + Oxidation (M)
392	738.3838	1474.7530	1474.8065	-36.24	1	10	7.1	1	VESLLENMGIKVK + Oxidation (M)
245	618.2814	1234.5482	1234.5426	4.60	0	10	4.5	1	ETAGSSGSTPEGR
169	545.2915	1088.5684	1088.5397	26.4	0	10	9.1	1	MGSADRPALR + Oxidation (M)
466	804.3981	1606.7816	1606.8454	-39.66	0	10	6.9	1	VEVELLSYEQGLK
640	1040.0016	2077.9886	2077.8876	48.6	0	10	5.1	1	LMCSLCHCPGATIGCDVK
391	738.3832	1474.7518	1474.7813	-19.99	1	10	7.9	1	VKALESAVNMLR + Oxidation (M)
691	837.3803	2509.1191	2509.1301	-4.39	0	10	3.2	1	LTLQSHRPTCCCYLDFHSSK
323	671.3476	1340.6806	1340.6282	39.1	0	10	7.4	1	AVSPENMVTYSK + Oxidation (M)
173	546.7579	1091.5012	1091.5393	-34.88	1	10	6.2	1	KEMASGVNTR
57	412.7530	823.4914	823.4817	11.9	0	10	3.1	1	RPWLPR
270	631.8015	1261.5884	1261.5826	4.61	0	10	7	1	EALVDWSGEK
706	894.7648	2681.2726	2681.2755	-1.11	0	9	4.5	1	VVSAMVNSLDDNGVLIGNWTGDYSR
49	379.7106	757.4066	757.3719	45.9	0	9	11	1	DGPLNSR
102	485.7497	969.4848	969.5131	-29.16	0	9	7	1	VVEGPGTPSK
368	730.9019	1459.7892	1459.7453	30.1	1	9	7.2	1	VDILENRVMDTR
705	894.4244	2680.2514	2680.3420	-33.81	1	9	4.1	1	NLTAGMAMITCREPLMSISTNLK + Oxidation (M)
168	545.2596	1088.5046	1088.5462	-38.16	0	9	7.3	1	SSVLNLANLR
324	671.3478	1340.6810	1340.7048	-17.73	0	9	9.2	1	NPQSTSLLPFGAR
154	532.2648	1062.5150	1062.4764	36.4	0	9	11	1	DASISSCPAR
80	438.7608	875.5070	875.4786	32.5	1	9	7.9	1	KLEMDLK

149	529.2750	1056.5354	1056.5312	4.02	0	9	10	1	QADGQAGAALR
564	863.3917	1724.7688	1724.7458	13.4	0	9	5.5	1	GVSEGSAAMAAGESMAQR + Oxidation (M)
384	738.3768	1474.7390	1474.8065	-45.73	1	9	10	1	VESLLENMGIKVK + Oxidation (M)
271	631.8031	1261.5916	1261.5826	7.15	0	8	9.1	1	EALVDWVSGEK
58	412.7545	823.4944	823.4817	15.5	0	8	4	1	RPWLPR
417	774.9011	1547.7876	1547.7865	0.76	1	8	10	1	MEEQGLADASLLKK + Oxidation (M)
552	852.4298	1702.8450	1702.8825	-21.99	1	8	9.9	1	TQVGVKGCYAHVLGSK
388	738.3810	1474.7474	1474.6787	46.6	1	8	12	1	VDTEPKAEESGDK
361	711.3162	1420.6178	1420.6681	-35.39	1	8	5.1	1	SLSSQEAKEAEDK
268	631.3294	1260.6442	1260.6649	-16.36	0	8	13	1	LTDPPFRPMLR + Oxidation (M)
61	419.2105	836.4064	836.3810	30.4	1	8	12	1	QMKGDSR + Oxidation (M)
390	738.3816	1474.7486	1474.6787	47.4	1	8	12	1	VDTEPKAEESGDK
631	656.6597	1966.9573	1966.9670	-4.96	0	8	9.3	1	VSVPTHPDDVDASLTMVK
63	421.7579	841.5012	841.4810	24.0	0	8	9.1	1	AVLTWPR
275	634.3516	1266.6886	1266.7230	-27.14	1	8	9.1	1	MEPRIKPRPK + Oxidation (M)
711	916.4344	2746.2814	2746.2593	8.03	0	8	5.8	1	LGVCYVEEPQEKPMPCWLYLR + Oxidation (M)
103	485.7501	969.4856	969.4477	39.1	0	8	9.6	1	TMLEYADK
152	530.7871	1059.5596	1059.5284	29.5	1	8	18	1	VWHTMSKR + Oxidation (M)
731	958.4579	2872.3519	2872.3337	6.31	1	8	6.4	1	TQQETFLEVIANASGYMYETSRYR + Oxidation (M)
70	435.2076	868.4006	868.4290	-32.70	1	8	7.8	1	GKFSSTDSK
18	531.2912	530.2839	530.2813	5.04	0	8	26	1	AVADR
329	672.8435	1343.6724	1343.6906	-13.47	1	8	12	1	LASRQSTPSQNR
199	573.7952	1145.5758	1145.5751	0.69	0	8	15	1	QMGLEPSPVK
385	738.3773	1474.7400	1474.6787	41.6	1	8	13	1	VDTEPKAEESGDK
130	519.2655	1036.5164	1036.4681	46.6	0	8	13	1	DPATMLMSR + Oxidation (M)
131	519.2684	1036.5222	1036.5739	-49.84	0	8	13	1	IYCLLSLR
241	618.2693	1234.5240	1234.5677	-35.37	0	8	5.3	1	STDSEVVSQSPAK
26	581.3032	580.2959	580.2890	11.9	0	8	11	1	SSMLK + Oxidation (M)
382	738.3743	1474.7340	1474.8065	-49.12	1	8	13	1	VESLLENMGIKVK + Oxidation (M)
36	644.3062	643.2989	643.2748	37.5	0	8	5.1	1	GCALSH
209	579.2987	1156.5828	1156.5585	21.1	1	7	14	1	AGSEPAGERQR
72	435.7737	869.5328	869.5698	-42.50	1	7	7.2	1	VLKILR
164	539.2836	1076.5526	1076.5437	8.32	1	7	16	1	QGAVMKNWK + Oxidation (M)
155	532.2737	1062.5328	1062.5128	18.9	1	7	17	1	QEIDRMQK + Oxidation (M)
211	580.7757	1159.5368	1159.5581	-18.36	1	7	11	1	ELQDEGRSAR
356	697.3420	1392.6694	1392.6919	-16.10	0	7	14	1	MTLTAASEVIGER + Oxidation (M)
182	556.7426	1111.4706	1111.4638	6.20	1	7	5.5	1	EGMERESMK + Oxidation (M)
422	785.3591	1568.7036	1568.7551	-32.82	1	7	8.8	1	FKYYSFFLDPK
242	618.2741	1234.5336	1234.5910	-46.49	0	7	8.1	1	MSTARPCAGLR + Oxidation (M)
254	629.8081	1257.6016	1257.6248	-18.41	1	7	15	1	QRMSPGVAGSPR + Oxidation (M)
153	530.7873	1059.5600	1059.5560	3.79	0	7	23	1	DTSSILATPR
387	738.3804	1474.7462	1474.6908	37.6	0	7	16	1	HNLLCLENMTSK + Oxidation (M)
751	833.1402	3328.5317	3328.5380	-1.89	0	7	5.3	1	AMNDIGDYVGSNLEISWLPNLDGLMEGYAR + Oxidation (M)
120	516.3018	1030.5890	1030.5546	33.4	0	7	15	1	VDILDIDTK
167	544.7650	1087.5154	1087.5370	-19.83	1	6	16	1	SADIGARADGR
319	670.8413	1339.6680	1339.7037	-26.63	0	6	16	1	QQVSPWPVPR
320	670.8761	1339.7376	1339.7459	-6.19	1	6	13	1	KAELEGVAVTAPR
600	915.4284	1828.8422	1828.9068	-35.29	0	6	11	1	ASGGSGGVSPALWSEVNR
383	738.3758	1474.7370	1474.6908	31.4	0	6	17	1	HNLLCLENMTSK + Oxidation (M)
710	916.4273	2746.2601	2746.2625	-0.89	1	6	7.5	1	SSDMTCAPHRPELEMRSYLDVPR
118	515.7795	1029.5444	1029.5753	-30.00	1	6	22	1	QACGVVLRK
59	414.2218	826.4290	826.3933	43.2	0	6	13	1	NEQPPSR
611	973.5194	1945.0242	1944.9364	45.2	1	6	11	1	VIEAYCTSASFQGGTRK
119	516.3002	1030.5858	1030.6321	-44.87	1	6	16	1	MLLLTLRR + Oxidation (M)
407	756.8483	1511.6820	1511.6939	-7.86	1	6	12	1	YGTSMHERVNR
244	618.2772	1234.5398	1234.5677	-22.55	1	6	10	1	SELEKDTER
157	533.2596	1064.5046	1064.5251	-19.18	0	6	17	1	VYGGQLSEGR
19	532.2899	531.2826	531.2653	32.7	0	6	37	1	SSNPK
377	736.3522	1470.6898	1470.6517	26.0	0	6	13	1	SMSLCNIAMTPSK + 2 Oxidation (M)
178	554.2697	1106.5248	1106.5754	-45.66	1	6	18	1	KAVTDAIMSR + Oxidation (M)
60	414.2234	826.4322	826.4661	-40.94	0	6	14	1	VAAPNLSR
608	954.8972	1907.7798	1907.7561	12.5	1	6	3.6	1	KMGDDVMACVHDDNGR + 2 Oxidation (M)
393	738.3840	1474.7534	1474.6908	42.5	0	6	19	1	HNLLCLENMTSK + Oxidation (M)
86	450.2203	898.4260	898.4621	-40.09	1	6	12	1	REPGEVGR
135	523.2825	1044.5504	1044.5101	38.6	1	6	26	1	KGAAGWEGGGR
359	466.8943	1397.6611	1397.6364	17.6	1	6	17	1	DSPKSWFFDNR
180	555.2522	1108.4898	1108.5183	-25.62	1	6	12	1	ENTSKVEMR + Oxidation (M)
156	533.2565	1064.4984	1064.5073	-8.31	0	6	18	1	NFNICLER
124	517.2717	1032.5288	1032.5200	8.58	0	6	24	1	GEVVTAGASSR
322	671.3471	1340.6796	1340.6248	40.9	0	6	19	1	YGTEDDPLEVR
692	837.3954	2509.1644	2509.1667	-0.94	1	5	12	1	TIETEBASPSTESLKSTSSDPGTR
111	496.2291	990.4436	990.4077	36.3	0	5	15	1	VCSDEPER
672	761.7168	2282.1286	2282.0572	31.3	1	5	15	1	HCVSAGEPINPEVMEQWRK + Oxidation (M)
235	615.3110	1228.6074	1228.6663	-47.92	0	5	22	1	TIVAVEVQDQK
147	529.2686	1056.5226	1056.5716	-46.35	0	5	21	1	LPTALWSGGR
318	670.3047	1338.5948	1338.5809	10.4	0	5	14	1	GGFGEVCACQVR
328	672.8430	1343.6714	1343.6681	2.51	1	5	22	1	AQGDQEAQLKK
106	487.7730	973.5314	973.4950	37.5	1	5	32	1	ICPICRR
412	766.3771	1530.7396	1530.7474	-5.04	1	5	23	1	AADTKHHHSMIQR
743	1026.4631	3076.3675	3076.4223	-17.83	0	5	6.7	1	PDFISVSEFVAETLEDYMAPTASSFTTR + Oxidation (M)
617	652.0220	1953.0442	1953.0758	-16.17	0	5	15	1	QGFCIPVEPGKGLLLTK

137	523.7651	1045.5156	1045.5127	2.78	1	5	34	1	FPFVDCRR
30	601.3463	600.3390	600.3595	-34.10	0	5	26	1	QVINK
643	1040.0198	2078.0250	2078.0895	-31.01	1	5	19	1	LEVAKLPLTEHELESENK
198	572.8111	1143.6076	1143.6546	-41.07	1	5	31	1	QAMLRQLLR + Oxidation (M)
633	656.9688	1967.8846	1967.8417	21.8	1	4	13	1	ASETQTSGRGSSASGSGAGDQA
406	756.8435	1511.6724	1511.7144	-27.75	0	4	15	1	EVVESQPFPFGET
87	450.2206	898.4266	898.4192	8.34	1	4	17	1	GAHMDRGR
28	590.3152	589.3079	589.3184	-17.71	0	4	57	1	TLNSR
441	785.8559	1569.6972	1569.7569	-38.00	1	4	14	1	EMHEEVLNIRR + Oxidation (M)
626	656.6524	1966.9354	1966.9758	-20.53	0	4	20	1	AAFLGTFTVTLQVPCACR
577	595.3222	1782.9448	1782.8862	32.9	0	4	19	1	MIQGDYIEKPDFALK + Oxidation (M)
240	616.8068	1231.5990	1231.6197	-16.75	1	4	30	1	DLEKNYTPR
588	897.9125	1793.8104	1793.8366	-14.60	1	4	18	1	QWTDEGVSERMLR
628	656.6563	1966.9471	1966.9670	-10.14	0	4	23	1	VSVFTHPDVGDASLTMVK
117	514.2878	1026.5610	1026.5763	-14.88	0	4	25	1	WVFLIGHR
121	516.3024	1030.5902	1030.6209	-29.74	0	4	28	1	VLVIVMTTR
78	438.7511	875.4876	875.5076	-22.79	1	4	35	1	SLSSKLNK
371	730.9055	1459.7964	1459.7592	25.5	1	4	24	1	DVLEKEMELLDQK
429	785.8380	1569.6614	1569.6837	-14.19	0	4	9.6	1	VTDVMLCAGEMSGGK + Oxidation (M)
435	785.8458	1569.6770	1569.7232	-29.41	0	4	13	1	LAGEEELAFSTK + Oxidation (M)
110	496.2278	990.4410	990.4804	-39.74	0	4	21	1	LEDQALR + Oxidation (M)
34	630.3195	629.3122	629.3133	-1.70	0	3	18	1	SDGVPR
109	496.2252	990.4358	990.4744	-38.89	0	3	20	1	LGGNHSNHR
527	849.4228	1696.8310	1696.8818	-29.91	1	3	29	1	AFLGELKQMTSTVR + Oxidation (M)
93	458.7181	915.4216	915.3974	26.5	0	3	21	1	SSWSYSL
215	581.7887	1161.5628	1161.5448	15.5	0	3	41	1	MEEQTQQR
550	852.4276	1702.8406	1702.8825	-24.57	1	3	30	1	TQVGVKGCYAHVLGSK
630	656.6592	1966.9558	1966.9418	7.11	1	3	27	1	ALQEFSELNERMSELR + Oxidation (M)
669	737.6966	2210.0680	2210.0776	-4.37	1	3	24	1	TNSMSFLPVVKEAEBSVVK
745	801.6301	3202.4913	3202.5964	-32.82	1	3	13	1	TVCYSPEDGMVAIGMKNGEFIILLVSSLK + 2 Oxidation (M)
459	801.4326	1600.8506	1600.8243	16.5	1	3	27	1	CHLKLSDLNLSSSK
327	672.8421	1343.6696	1343.7045	-25.91	1	3	33	1	KEASSGSTPQPKP
181	556.2957	1110.5768	1110.6033	-23.83	0	3	32	1	TVISPPNLR
629	656.6565	1966.9477	1966.9385	4.67	0	3	28	1	ASLVSSSDGSLADTHFAR
267	631.3170	1260.6194	1260.5775	33.3	0	3	39	1	FYETVQDFR
276	634.3563	1266.6980	1266.6720	20.5	1	3	25	1	RNIIGYFEQK
238	616.8051	1231.5956	1231.6561	-49.04	1	3	38	1	AKALESQFPNK
673	762.0465	2283.1177	2283.0550	27.5	1	3	27	1	AVDSACEPLTGSSGGPGSREPPR
591	897.9169	1793.8192	1793.7699	27.5	1	3	28	1	MSYLKTTMEDEESSK + Oxidation (M)
68	428.7694	855.5242	855.5178	7.55	0	2	25	1	VTIASLPR
670	737.6982	2210.0728	2209.9984	33.7	1	2	28	1	RMLSDSGMITPHYEDSDLK + Oxidation (M)
228	601.7988	1201.5830	1201.5952	-10.14	1	2	41	1	TPRSFSTHGR
239	616.8063	1231.5980	1231.5768	17.3	1	2	44	1	HNGYDPRVMK + Oxidation (M)
574	890.4332	1778.8518	1778.8010	28.6	1	2	36	1	MVMTVFACLGRGMK + 3 Oxidation (M)
195	572.8048	1143.5950	1143.5924	2.32	0	2	51	1	NILYHLDEK
693	837.3973	2509.1701	2509.2531	-33.11	0	2	24	1	MVQSLAWAGVMTLLMVQWGSAAK + 2 Oxidation (M)
188	565.3242	1128.6338	1128.6502	-14.52	1	2	43	1	KLELEATVAR
570	885.9603	1769.9060	1769.9635	-32.47	1	2	38	1	ENQRQEQLSLTAK
99	475.7538	949.4930	949.4869	6.48	0	2	52	1	IGDTIEFR
620	652.3461	1954.0165	1954.0023	7.27	1	2	33	1	AVVGVDFPHFSYMKLTK + Oxidation (M)
339	458.9060	1373.6962	1373.6688	20.0	1	2	50	1	QWRNISDNDK
528	851.4495	1700.8844	1700.8920	-4.41	1	2	38	1	DKDTLSIHYLMLPR
639	1039.9996	2077.9846	2077.9132	34.4	0	2	32	1	CPNGHIYVITECGAMQR + Oxidation (M)
148	529.2691	1056.5236	1056.5426	-17.95	0	2	42	1	LMTELWHK
704	894.0798	2679.2176	2679.3439	-47.13	1	2	20	1	EMLLKHPSRVQVFEAEDNLPDR
451	795.8800	1589.7454	1589.7508	-3.35	0	2	36	1	QASDSSMFLPPSPAR
365	728.3507	1454.6868	1454.7365	-34.13	0	2	37	1	EQISQHIADLSSK
638	688.3139	2061.9199	2061.9426	-11.01	1	2	24	1	SKGSQGTSPFPSPSPSPSDR + Oxidation (M)
590	897.9169	1793.8192	1793.7699	27.5	1	2	34	1	MSYLKTTMEDEESSK + Oxidation (M)
555	854.3911	1706.7676	1706.7794	-6.91	1	2	30	1	MNSFRANHSSLDNSK
190	572.3210	1142.6274	1142.6448	-15.16	0	2	54	1	AALLDPFAVR
625	656.6497	1966.9273	1966.9418	-7.41	0	2	34	1	SCSVTDTVAEQAHLPFGAK
667	1073.0267	2144.0388	2144.0911	-24.36	1	2	37	1	SLSAFAPICNVLCPWGKK
179	554.2782	1106.5418	1106.5581	-14.68	1	2	56	1	QSFQRQAQR
439	785.8525	1569.6904	1569.6671	14.9	0	1	26	1	EDTGWYWCIGQR
516	824.3876	1646.7606	1646.8055	-27.22	1	1	41	1	GLRTLCCCLPIER
535	851.4545	1700.8944	1700.8920	1.46	1	1	42	1	NPKILVECLTPDFR
715	917.0835	2748.2287	2748.3371	-39.44	1	1	19	1	RPTLTGCSLPGASCGRCPAGVPPAR
732	958.4640	2872.3702	2872.2763	32.7	0	1	29	1	ASQSVDFDGDSDMNNWYQKQPPK + Oxidation (M)
556	854.3937	1706.7728	1706.7794	-3.86	1	1	36	1	MNSFRANHSSLDNSK
607	624.3091	1869.9055	1869.8349	37.7	0	1	48	1	FPCNGNSQAGLTTQTMK + Oxidation (M)
627	656.6545	1966.9417	1967.0323	-46.10	1	1	41	1	LGSSSLTSIPEVREHVK
138	525.2727	1048.5308	1048.5263	4.33	0	1	76	1	GIDMIEFPK
40	325.1874	648.3602	648.3595	1.16	0	1	49	1	AFNAVK
423	785.8161	1569.6176	1569.6518	-21.76	0	1	7.1	1	DVTCDVHYENYR
321	671.3409	1340.6672	1340.7201	-39.40	1	1	57	1	SLSRTPSPPPFR
378	736.4106	1470.8066	1470.7943	8.40	0	1	43	1	QVLSQGSYLYHR
100	476.7474	951.4802	951.5178	-39.46	1	1	65	1	RLFIGSYF
656	1048.9799	2095.9452	2095.9844	-18.70	0	1	34	1	TPEVQSILMSSFGNQDTR
467	805.8967	1609.7788	1609.7592	12.2	1	1	53	1	TIDSWMNTMVPKR + 2 Oxidation (M)
729	958.1341	2871.3805	2871.4628	-28.66	1	1	31	1	GFSQSGAPLLTLQSVRLQFQETDGRH

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<input checked="" type="checkbox"/>	<a href="#">756</a>	894.1323	3572.5001
<input checked="" type="checkbox"/>	<a href="#">757</a>	898.2284	3588.8845
<input checked="" type="checkbox"/>	<a href="#">758</a>	905.8012	3619.1757
<input checked="" type="checkbox"/>	<a href="#">759</a>	920.1791	3676.6873
<input checked="" type="checkbox"/>	<a href="#">760</a>	953.6735	3810.6649
<input checked="" type="checkbox"/>	<a href="#">761</a>	984.5250	3934.0709
<input checked="" type="checkbox"/>	<a href="#">762</a>	1004.2122	4012.8197
<input checked="" type="checkbox"/>	<a href="#">764</a>	1024.5935	4094.3449
<input checked="" type="checkbox"/>	<a href="#">765</a>	1088.9841	4351.9073
<input checked="" type="checkbox"/>	<a href="#">766</a>	1094.2787	4373.0857
<input checked="" type="checkbox"/>	<a href="#">767</a>	1111.0824	4440.3005
<input checked="" type="checkbox"/>	<a href="#">768</a>	1130.5969	4518.3585

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### Search Parameters

Type of search : MS/MS Ion Search  
Enzyme : Trypsin  
Fixed modifications : Carbamidomethyl (C)  
Variable modifications : Oxidation (M)  
Mass values : Monoisotopic  
Protein Mass : Unrestricted  
Peptide Mass Tolerance :  $\pm 50$  ppm  
Fragment Mass Tolerance:  $\pm 0.2$  Da  
Max Missed Cleavages : 1  
Instrument type : ESI-QUAD-TOF  
Number of queries : 768

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



## Mascot Search Results

**User** : Dominic  
**Email** : dominic.kurian@bbsrc.ac.uk  
**Search title** : IPI Mouse\_15-02-2010  
**MS data file** : D:\PeakList\Dominic Kurian\QTofDK20010805 GATC P 0010883.pk1  
**Database** : IPI\_mouse MOUSE\_v3\_79 (54943 sequences; 24917557 residues)  
**Timestamp** : 15 Feb 2011 at 15:25:08 GMT  
**Protein hits** :

- [IPI00621806](#) Tax\_Id=10090 Gene\_Symbol=Camk2a Isoform Alpha CaMKII of Calcium/calmodulin-dependent protein kinase type II subunit alpha
- [IPI00474502](#) Tax\_Id=10090 Gene\_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase type II subunit beta
- [IPI00406790](#) Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 4 of Calcium/calmodulin-dependent protein kinase type II subunit
- [IPI00124695](#) Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 1 of Calcium/calmodulin-dependent protein kinase type II subunit
- [IPI00169463](#) Tax\_Id=10090 Gene\_Symbol=Tubb2c Tubulin beta-2C chain
- [IPI00110850](#) Tax\_Id=10090 Gene\_Symbol=Actb Actin, cytoplasmic 1
- [IPI00115546](#) Tax\_Id=10090 Gene\_Symbol=Gnao1 Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) subunit alpha
- [IPI00221528](#) Tax\_Id=10090 Gene\_Symbol=Actb12 Beta-actin-like protein 2
- [IPI00112251](#) Tax\_Id=10090 Gene\_Symbol=Tubb3 Tubulin beta-3 chain
- [IPI00323571](#) Tax\_Id=10090 Gene\_Symbol=Apoe Apolipoprotein E
- [IPI00117352](#) Tax\_Id=10090 Gene\_Symbol=Tubb5 Tubulin beta-5 chain
- [IPI00138892](#) Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin-60S ribosomal protein L40
- [IPI00755181](#) Tax\_Id=10090 Gene\_Symbol=Krt10 keratin, type I cytoskeletal 10
- [IPI00122094](#) Tax\_Id=10090 Gene\_Symbol=Dlg4 Isoform 2 of Disks large homolog 4
- [IPI00131366](#) Tax\_Id=10090 Gene\_Symbol=Krt6b Keratin, type II cytoskeletal 6B
- [IPI00134997](#) Tax\_Id=10090 Gene\_Symbol=Dlgap3 Disks large-associated protein 3
- [IPI00122928](#) Tax\_Id=10090 Gene\_Symbol=Tubb6 Tubulin beta-6 chain
- [IPI00109061](#) Tax\_Id=10090 Gene\_Symbol=Tubb2b Tubulin beta-2B chain
- [IPI00462140](#) Tax\_Id=10090 Gene\_Symbol=Krt77 Keratin, type II cytoskeletal 1b
- [IPI00420970](#) Tax\_Id=10090 Gene\_Symbol=Krt74 Keratin, type II cytoskeletal 74
- [IPI00131209](#) Tax\_Id=10090 Gene\_Symbol=Krt16 Keratin intermediate filament 16a
- [IPI00348328](#) Tax\_Id=10090 Gene\_Symbol=Krt78 keratin Kb40
- [IPI00322209](#) Tax\_Id=10090 Gene\_Symbol=Krt8 Keratin, type II cytoskeletal 8
- [IPI00119063](#) Tax\_Id=10090 Gene\_Symbol=Lrp1 Prolow-density lipoprotein receptor-related protein 1
- [IPI00121038](#) Tax\_Id=10090 Gene\_Symbol=Vcan Isoform V0 of Versican core protein
- [IPI00122048](#) Tax\_Id=10090 Gene\_Symbol=Atpla3 Sodium/potassium-transporting ATPase subunit alpha-3
- [IPI00120793](#) Tax\_Id=10090 Gene\_Symbol=Prnp Major prion protein
- [IPI00136402](#) Tax\_Id=10090 Gene\_Symbol=Dlgap1 Isoform 1 of Disks large-associated protein 1
- [IPI00222548](#) Tax\_Id=10090 Gene\_Symbol=Rpl29;Gml3841;Gm8210 60S ribosomal protein L29
- [IPI00124499](#) Tax\_Id=10090 Gene\_Symbol=Krt79 Keratin, type II cytoskeletal 79
- [IPI00113410](#) Tax\_Id=10090 Gene\_Symbol=Hapln2 Hyaluronan and proteoglycan link protein 2
- [IPI00223714](#) Tax\_Id=10090 Gene\_Symbol=Hist1h1e Histone H1.4
- [IPI00136703](#) Tax\_Id=10090 Gene\_Symbol=Ckb Creatine kinase B-type
- [IPI00229598](#) Tax\_Id=10090 Gene\_Symbol=Cnp Isoform CNPI of 2',3'-cyclic-nucleotide 3'-phosphodiesterase
- [IPI00123176](#) Tax\_Id=10090 Gene\_Symbol=Gm6316 Glyceraldehyde-3-phosphate dehydrogenase

### IPI\_mouse [Decoy](#) False discovery rate

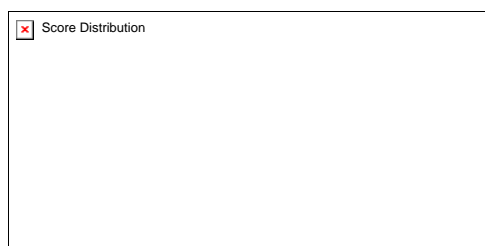
Peptide matches above identity threshold	229	0	0.00 %
Peptide matches above homology or identity threshold	245	2	0.82 %

### 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 > 37 indicate identity or extensive homology ( $p < 0.01$ ).

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  $p < 0.01$  Max. number of hits [AUTO](#)  
 Standard scoring  MudPIT scoring  Ions score or expect cut-off  Show sub-sets   
 Show pop-ups  Suppress pop-ups  Sort unassigned [Decreasing Score](#)  Require bold red   
    **Error tolerant**

1. [IPI00621806](#) Mass: 54651 Score: 3316 Queries matched: 156 empAI: 1.55  
 Tax\_Id=10090 Gene\_Symbol=Camk2a Isoform Alpha CaMKII of Calcium/calmodulin-dependent protein kinase type II 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"/> <a href="#">5</a>	445.2779	444.2706	444.2696	2.25	0	(7)	29	1	K.GAAVK.L
<input checked="" type="checkbox"/> <a href="#">6</a>	445.2791	444.2718	444.2696	4.95	0	8	27	1	K.GAAVK.L
<input checked="" type="checkbox"/> <a href="#">11</a>	602.3611	601.3538	601.3435	17.2	0	12	12	1	K.DLINK.M

49	432.7308	863.4470	863.4501	-3.56	0	(24)	0.43	1	R.SGAPSVLPH.-
50	432.7333	863.4520	863.4501	2.23	0	(14)	3.8	1	R.SGAPSVLPH.-
51	432.7336	863.4526	863.4501	2.93	0	26	0.24	1	R.SGAPSVLPH.-
69	452.2506	902.4866	902.4895	-3.18	0	33	0.049	1	K.MLTINPSK.R
70	452.2533	902.4920	902.4895	2.80	0	(10)	10	1	K.MLTINPSK.R
72	461.2145	920.4144	920.4199	-5.95	0	23	0.31	1	R.TAQSEETR.V
116	525.2833	1048.5520	1048.5553	-3.09	0	(49)	0.0012	1	K.VLAGQEYAAK.I
117	525.2841	1048.5536	1048.5553	-1.56	0	(33)	0.044	1	K.VLAGQEYAAK.I
118	525.2841	1048.5536	1048.5553	-1.56	0	(45)	0.0028	1	K.VLAGQEYAAK.I
119	525.2849	1048.5552	1048.5553	-0.03	0	52	0.00048	1	K.VLAGQEYAAK.I
120	525.2850	1048.5554	1048.5553	0.16	0	(52)	0.00049	1	K.VLAGQEYAAK.I
121	525.2855	1048.5564	1048.5553	1.11	0	(45)	0.0028	1	K.VLAGQEYAAK.I
125	530.2988	1058.5830	1058.5906	-7.15	1	(38)	0.012	1	K.MLTINPSKR.I
126	530.2988	1058.5830	1058.5906	-7.15	1	(14)	3.6	1	K.MLTINPSKR.I
127	530.2996	1058.5846	1058.5906	-5.64	1	(48)	0.0014	1	K.MLTINPSKR.I
128	530.2996	1058.5846	1058.5906	-5.64	1	(49)	0.0012	1	K.MLTINPSKR.I
129	530.3013	1058.5880	1058.5906	-2.43	1	(46)	0.0019	1	K.MLTINPSKR.I
130	530.3015	1058.5884	1058.5906	-2.05	1	(38)	0.013	1	K.MLTINPSKR.I
131	530.3017	1058.5888	1058.5906	-1.68	1	52	0.00042	1	K.MLTINPSKR.I
132	530.3019	1058.5892	1058.5906	-1.30	1	(43)	0.0033	1	K.MLTINPSKR.I
133	530.3021	1058.5896	1058.5906	-0.92	1	(33)	0.041	1	K.MLTINPSKR.I
134	530.3024	1058.5902	1058.5906	-0.35	1	(40)	0.0077	1	K.MLTINPSKR.I
135	530.3027	1058.5908	1058.5906	0.21	1	(49)	0.001	1	K.MLTINPSKR.I
136	530.3054	1058.5962	1058.5906	5.31	1	(41)	0.006	1	K.MLTINPSKR.I
144	538.2992	1074.5838	1074.5855	-1.58	1	(21)	0.68	2	K.MLTINPSKR.I + Oxidation (M)
145	538.2996	1074.5846	1074.5855	-0.83	1	(7)	16	10	K.MLTINPSKR.I + Oxidation (M)
146	538.3000	1074.5854	1074.5855	-0.09	1	(47)	0.0018	1	K.MLTINPSKR.I + Oxidation (M)
147	538.3003	1074.5860	1074.5855	0.47	1	(23)	0.42	1	K.MLTINPSKR.I + Oxidation (M)
197	574.3211	1146.6276	1146.6431	-13.45	0	(62)	4.1e-005	1	K.GAILTTMLATR.N
198	574.3234	1146.6322	1146.6431	-9.43	0	(38)	0.011	1	K.GAILTTMLATR.N
199	574.3245	1146.6344	1146.6431	-7.52	0	(45)	0.002	1	K.GAILTTMLATR.N
200	574.3247	1146.6348	1146.6431	-7.17	0	(54)	0.00025	1	K.GAILTTMLATR.N
201	574.3251	1146.6356	1146.6431	-6.47	0	(52)	0.00036	1	K.GAILTTMLATR.N
202	574.3251	1146.6356	1146.6431	-6.47	0	(38)	0.011	1	K.GAILTTMLATR.N
203	574.3258	1146.6370	1146.6431	-5.25	0	(64)	2.4e-005	1	K.GAILTTMLATR.N
204	574.3258	1146.6370	1146.6431	-5.25	0	(59)	8.2e-005	1	K.GAILTTMLATR.N
205	574.3262	1146.6378	1146.6431	-4.55	0	(59)	7.9e-005	1	K.GAILTTMLATR.N
206	574.3262	1146.6378	1146.6431	-4.55	0	(43)	0.0032	1	K.GAILTTMLATR.N
207	574.3263	1146.6380	1146.6431	-4.38	0	(57)	0.00014	1	K.GAILTTMLATR.N
208	574.3271	1146.6396	1146.6431	-2.98	0	(48)	0.00088	1	K.GAILTTMLATR.N
209	574.3272	1146.6398	1146.6431	-2.81	0	(46)	0.0013	1	K.GAILTTMLATR.N
210	574.3275	1146.6404	1146.6431	-2.28	0	(41)	0.0049	1	K.GAILTTMLATR.N
211	574.3278	1146.6410	1146.6431	-1.76	0	(58)	8.4e-005	1	K.GAILTTMLATR.N
212	574.3279	1146.6412	1146.6431	-1.59	0	(59)	7.2e-005	1	K.GAILTTMLATR.N
213	574.3279	1146.6412	1146.6431	-1.59	0	(59)	7.1e-005	1	K.GAILTTMLATR.N
214	574.3279	1146.6412	1146.6431	-1.59	0	(59)	7.1e-005	1	K.GAILTTMLATR.N
215	574.3281	1146.6416	1146.6431	-1.24	0	(63)	3e-005	1	K.GAILTTMLATR.N
216	574.3281	1146.6416	1146.6431	-1.24	0	78	9.7e-007	1	K.GAILTTMLATR.N
217	574.3283	1146.6420	1146.6431	-0.89	0	(50)	0.00053	1	K.GAILTTMLATR.N
218	574.3287	1146.6428	1146.6431	-0.19	0	(49)	0.00065	1	K.GAILTTMLATR.N
219	574.3294	1146.6442	1146.6431	1.03	0	(56)	0.00015	1	K.GAILTTMLATR.N
220	574.3297	1146.6448	1146.6431	1.55	0	(31)	0.048	1	K.GAILTTMLATR.N
221	574.3318	1146.6490	1146.6431	5.22	0	(42)	0.0029	1	K.GAILTTMLATR.N
261	631.3007	1260.5868	1260.5927	-4.68	0	(35)	0.02	1	R.FYPENLWSR.N
262	631.3032	1260.5918	1260.5927	-0.71	0	(37)	0.012	1	R.FYPENLWSR.N
263	631.3038	1260.5930	1260.5927	0.24	0	(48)	0.001	1	R.FYPENLWSR.N
264	631.3044	1260.5942	1260.5927	1.19	0	(35)	0.021	1	R.FYPENLWSR.N
265	631.3046	1260.5946	1260.5927	1.51	0	(51)	0.00059	1	R.FYPENLWSR.N
266	631.3048	1260.5950	1260.5927	1.83	0	(48)	0.0011	1	R.FYPENLWSR.N
267	631.3051	1260.5956	1260.5927	2.30	0	(38)	0.0099	1	R.FYPENLWSR.N
268	631.3055	1260.5964	1260.5927	2.94	0	(48)	0.0011	1	R.FYPENLWSR.N
269	631.3056	1260.5966	1260.5927	3.10	0	(51)	0.0006	1	R.FYPENLWSR.N
270	631.3056	1260.5966	1260.5927	3.10	0	(36)	0.016	1	R.FYPENLWSR.N
271	631.3060	1260.5974	1260.5927	3.73	0	(51)	0.0006	1	R.FYPENLWSR.N
272	631.3065	1260.5984	1260.5927	4.53	0	51	0.00061	1	R.FYPENLWSR.N
292	652.3373	1302.6600	1302.6932	-25.44	0	(54)	0.00031	1	R.ITQYLDAGGIPR.T
293	652.3430	1302.6714	1302.6932	-16.69	0	(75)	2.6e-006	1	R.ITQYLDAGGIPR.T
294	652.3467	1302.6788	1302.6932	-11.01	0	(73)	4e-006	1	R.ITQYLDAGGIPR.T
295	652.3514	1302.6882	1302.6932	-3.80	0	(59)	0.0001	1	R.ITQYLDAGGIPR.T
296	652.3551	1302.6956	1302.6932	1.89	0	(77)	1.4e-006	1	R.ITQYLDAGGIPR.T
297	652.3551	1302.6956	1302.6932	1.89	0	79	9.7e-007	1	R.ITQYLDAGGIPR.T
298	652.3563	1302.6980	1302.6932	3.73	0	(52)	0.0004	1	R.ITQYLDAGGIPR.T
308	670.8843	1339.7540	1339.7711	-12.71	0	(4)	18	1	R.DLKPENLLLASK.L
309	670.8865	1339.7584	1339.7711	-9.42	0	(20)	0.47	1	R.DLKPENLLLASK.L
310	670.8892	1339.7638	1339.7711	-5.39	0	(27)	0.088	1	R.DLKPENLLLASK.L
311	670.8903	1339.7660	1339.7711	-3.75	0	(52)	0.00028	1	R.DLKPENLLLASK.L
312	670.8908	1339.7670	1339.7711	-3.00	0	(33)	0.018	1	R.DLKPENLLLASK.L
313	670.8910	1339.7674	1339.7711	-2.70	0	(35)	0.012	1	R.DLKPENLLLASK.L
314	670.8913	1339.7680	1339.7711	-2.26	0	(53)	0.00019	1	R.DLKPENLLLASK.L
315	670.8915	1339.7684	1339.7711	-1.96	0	(60)	3.6e-005	1	R.DLKPENLLLASK.L
316	670.8926	1339.7706	1339.7711	-0.32	0	(58)	6.1e-005	1	R.DLKPENLLLASK.L

<input checked="" type="checkbox"/>	<a href="#">317</a>	670.8928	1339.7710	1339.7711	-0.02	0	(23)	0.17	1	R.DLKPENLLLASK.L
<input checked="" type="checkbox"/>	<a href="#">318</a>	670.8931	1339.7716	1339.7711	0.43	0	(37)	0.0077	1	R.DLKPENLLLASK.L
<input checked="" type="checkbox"/>	<a href="#">319</a>	670.8934	1339.7722	1339.7711	0.88	0	(61)	3e-005	1	R.DLKPENLLLASK.L
<input checked="" type="checkbox"/>	<a href="#">320</a>	670.8937	1339.7728	1339.7711	1.33	0	(66)	8.4e-006	1	R.DLKPENLLLASK.L
<input checked="" type="checkbox"/>	<a href="#">321</a>	670.8940	1339.7734	1339.7711	1.77	0	82	2.1e-007	1	R.DLKPENLLLASK.L
<input checked="" type="checkbox"/>	<a href="#">322</a>	670.8940	1339.7734	1339.7711	1.77	0	(67)	6.9e-006	1	R.DLKPENLLLASK.L
<input checked="" type="checkbox"/>	<a href="#">323</a>	670.8940	1339.7734	1339.7711	1.77	0	(63)	1.7e-005	1	R.DLKPENLLLASK.L
<input checked="" type="checkbox"/>	<a href="#">324</a>	670.8945	1339.7744	1339.7711	2.52	0	(51)	0.00028	1	R.DLKPENLLLASK.L
<input checked="" type="checkbox"/>	<a href="#">325</a>	670.8946	1339.7746	1339.7711	2.67	0	(70)	3.2e-006	1	R.DLKPENLLLASK.L
<input checked="" type="checkbox"/>	<a href="#">326</a>	670.8951	1339.7756	1339.7711	3.42	0	(63)	1.6e-005	1	R.DLKPENLLLASK.L
<input checked="" type="checkbox"/>	<a href="#">327</a>	670.8954	1339.7762	1339.7711	3.86	0	(63)	1.6e-005	1	R.DLKPENLLLASK.L
<input checked="" type="checkbox"/>	<a href="#">328</a>	670.8955	1339.7764	1339.7711	4.01	0	(59)	4.4e-005	1	R.DLKPENLLLASK.L
<input checked="" type="checkbox"/>	<a href="#">398</a>	816.8909	1631.7672	1631.7719	-2.84	0	(62)	4.1e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">399</a>	816.8932	1631.7718	1631.7719	-0.02	0	(54)	0.00023	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">400</a>	816.8936	1631.7726	1631.7719	0.47	0	(60)	6.7e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">401</a>	816.8937	1631.7728	1631.7719	0.59	0	(59)	8.6e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">402</a>	816.8939	1631.7732	1631.7719	0.84	0	(54)	0.00024	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">403</a>	816.8940	1631.7734	1631.7719	0.96	0	(64)	2.3e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">404</a>	816.8947	1631.7748	1631.7719	1.82	0	(64)	2.6e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">405</a>	816.8948	1631.7750	1631.7719	1.94	0	(64)	2.4e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">406</a>	816.8949	1631.7752	1631.7719	2.06	0	70	6.7e-006	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">407</a>	816.8950	1631.7754	1631.7719	2.19	0	(58)	0.00011	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">408</a>	816.8951	1631.7756	1631.7719	2.31	0	(66)	1.7e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">409</a>	816.8952	1631.7758	1631.7719	2.43	0	(63)	3e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">410</a>	816.8953	1631.7760	1631.7719	2.55	0	(59)	7.2e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">411</a>	816.8957	1631.7768	1631.7719	3.04	0	(64)	2.6e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">412</a>	816.8958	1631.7770	1631.7719	3.17	0	(61)	4.7e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">413</a>	816.8960	1631.7774	1631.7719	3.41	0	(61)	4.9e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">414</a>	816.8961	1631.7776	1631.7719	3.53	0	(53)	0.00032	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">415</a>	816.8961	1631.7776	1631.7719	3.53	0	(56)	0.00017	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">416</a>	816.8962	1631.7778	1631.7719	3.66	0	(67)	1.4e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">417</a>	816.8962	1631.7778	1631.7719	3.66	0	(60)	6.2e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">418</a>	816.8970	1631.7794	1631.7719	4.64	0	(57)	0.00013	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">419</a>	816.8971	1631.7796	1631.7719	4.76	0	(26)	0.15	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">420</a>	816.8973	1631.7800	1631.7719	5.00	0	(51)	0.0005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">421</a>	816.8973	1631.7800	1631.7719	5.00	0	(68)	1.1e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">422</a>	816.8975	1631.7804	1631.7719	5.25	0	(62)	4e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">423</a>	816.8977	1631.7808	1631.7719	5.50	0	(61)	5.2e-005	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">424</a>	816.8977	1631.7808	1631.7719	5.50	0	(55)	0.0002	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">425</a>	816.8979	1631.7812	1631.7719	5.74	0	(57)	0.00013	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">426</a>	816.8990	1631.7834	1631.7719	7.09	0	(54)	0.00024	1	R.FTEEYQLFEELGK.G
<input checked="" type="checkbox"/>	<a href="#">477</a>	680.9728	2039.8966	2039.9131	-8.10	1	103	1.4e-009	1	K.ESSESTNTTIEDEDTKVR.K
<input checked="" type="checkbox"/>	<a href="#">478</a>	680.9773	2039.9101	2039.9131	-1.48	1	(102)	2.3e-009	1	K.ESSESTNTTIEDEDTKVR.K
<input checked="" type="checkbox"/>	<a href="#">483</a>	1040.9476	2079.8806	2079.9426	-29.76	0	(74)	8.8e-007	1	K.AGAYDFPSPPEWDTVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">484</a>	1040.9493	2079.8840	2079.9426	-28.13	0	(58)	3.7e-005	1	K.AGAYDFPSPPEWDTVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">485</a>	1040.9618	2079.9090	2079.9426	-16.11	0	(57)	5.8e-005	1	K.AGAYDFPSPPEWDTVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">486</a>	694.3159	2079.9259	2079.9426	-8.02	0	(70)	3.7e-006	1	K.AGAYDFPSPPEWDTVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">487</a>	694.3180	2079.9322	2079.9426	-4.99	0	90	3.7e-008	1	K.AGAYDFPSPPEWDTVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">488</a>	1040.9735	2079.9324	2079.9426	-4.86	0	(42)	0.0023	1	K.AGAYDFPSPPEWDTVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">489</a>	1040.9767	2079.9388	2079.9426	-1.78	0	(64)	1.7e-005	1	K.AGAYDFPSPPEWDTVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">490</a>	1040.9814	2079.9482	2079.9426	2.74	0	(62)	2.8e-005	1	K.AGAYDFPSPPEWDTVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">491</a>	1040.9825	2079.9504	2079.9426	3.80	0	(75)	1.4e-006	1	K.AGAYDFPSPPEWDTVTPEAK.D
<input checked="" type="checkbox"/>	<a href="#">498</a>	715.3460	2143.0162	2143.0321	-7.42	0	(71)	4.1e-006	1	K.VTEQLIEAISNGDFESYTK.M
<input checked="" type="checkbox"/>	<a href="#">499</a>	715.3465	2143.0177	2143.0321	-6.72	0	102	3.4e-009	1	K.VTEQLIEAISNGDFESYTK.M
<input checked="" type="checkbox"/>	<a href="#">500</a>	1072.5264	2143.0382	2143.0321	2.88	0	(93)	2.6e-008	1	K.VTEQLIEAISNGDFESYTK.M
<input checked="" type="checkbox"/>	<a href="#">501</a>	1072.5287	2143.0428	2143.0321	5.03	0	(77)	1e-006	1	K.VTEQLIEAISNGDFESYTK.M
<input checked="" type="checkbox"/>	<a href="#">558</a>	888.7586	2663.2540	2663.2755	-8.08	1	(47)	0.00081	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">559</a>	888.7591	2663.2555	2663.2755	-7.52	1	(71)	3.1e-006	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">560</a>	888.7594	2663.2564	2663.2755	-7.18	1	(90)	4e-008	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">561</a>	888.7601	2663.2585	2663.2755	-6.39	1	(59)	4.9e-005	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">562</a>	888.7601	2663.2585	2663.2755	-6.39	1	97	8.5e-009	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">563</a>	888.7603	2663.2591	2663.2755	-6.17	1	(78)	7e-007	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">564</a>	888.7603	2663.2591	2663.2755	-6.17	1	(79)	5.1e-007	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">565</a>	888.7603	2663.2591	2663.2755	-6.17	1	(78)	7e-007	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">566</a>	888.7608	2663.2606	2663.2755	-5.60	1	(74)	1.5e-006	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">567</a>	888.7608	2663.2606	2663.2755	-5.60	1	(52)	0.00027	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">568</a>	888.7616	2663.2630	2663.2755	-4.70	1	(32)	0.03	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">569</a>	888.7617	2663.2633	2663.2755	-4.59	1	(26)	0.11	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">570</a>	888.7621	2663.2645	2663.2755	-4.14	1	(79)	4.8e-007	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">571</a>	888.7621	2663.2645	2663.2755	-4.14	1	(67)	7.6e-006	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">572</a>	888.7629	2663.2669	2663.2755	-3.24	1	(78)	6e-007	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M
<input checked="" type="checkbox"/>	<a href="#">573</a>	888.7650	2663.2732	2663.2755	-0.87	1	(12)	2.6	1	K.AGAYDFPSPPEWDTVTPEAKDLINK.M

2. [IPI00474502](#) Mass: 61164 Score: 2503 Queries matched: 106 emPAI: 1.85  
 Tax\_Id=10090 Gene\_Symbol=Camk2b Calcium/calmodulin-dependent protein kinase type II subunit 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
<a href="#">5</a>	445.2779	444.2706	444.2696	2.25	0	(7)	29	1	K.GAAVK.L
<a href="#">6</a>	445.2791	444.2718	444.2696	4.95	0	8	27	1	K.GAAVK.L
<a href="#">71</a>	452.7382	903.4618	903.4661	-4.75	0	51	0.0009	1	K.NSSAITSFK.G



<input checked="" type="checkbox"/>	<a href="#">540</a>	779.7122	2336.1148	2336.1325	-7.58	1	(13)	2.4	1	R.FTDEYQLYEDIGKGFVSVVR.R
<input checked="" type="checkbox"/>	<a href="#">541</a>	779.7162	2336.1268	2336.1325	-2.44	1	73	2.3e-006	1	R.FTDEYQLYEDIGKGFVSVVR.R
<input checked="" type="checkbox"/>	<a href="#">542</a>	785.0447	2352.1123	2352.1301	-7.58	0	(87)	8.1e-008	1	R.QTTAPATMSTAASGTTMGLVEQAK.S
<input checked="" type="checkbox"/>	<a href="#">543</a>	785.0452	2352.1138	2352.1301	-6.95	0	(108)	6.7e-010	1	R.QTTAPATMSTAASGTTMGLVEQAK.S
<input checked="" type="checkbox"/>	<a href="#">544</a>	1177.0774	2352.1402	2352.1301	4.31	0	(60)	4.2e-005	1	R.QTTAPATMSTAASGTTMGLVEQAK.S
<input checked="" type="checkbox"/>	<a href="#">545</a>	1177.0776	2352.1406	2352.1301	4.48	0	(71)	3.7e-006	1	R.QTTAPATMSTAASGTTMGLVEQAK.S
<input checked="" type="checkbox"/>	<a href="#">546</a>	1177.0782	2352.1418	2352.1301	4.99	0	130	4.7e-012	1	R.QTTAPATMSTAASGTTMGLVEQAK.S
<input checked="" type="checkbox"/>	<a href="#">547</a>	785.4210	2353.2412	2353.2642	-9.77	0	(34)	0.015	1	K.GSLPPAALEPQTTVIHNPVDGK.E
<input checked="" type="checkbox"/>	<a href="#">548</a>	785.4226	2353.2460	2353.2642	-7.73	0	89	4.7e-008	1	K.GSLPPAALEPQTTVIHNPVDGK.E
<input checked="" type="checkbox"/>	<a href="#">549</a>	785.4229	2353.2469	2353.2642	-7.35	0	(70)	3.4e-006	1	K.GSLPPAALEPQTTVIHNPVDGK.E
<input checked="" type="checkbox"/>	<a href="#">550</a>	785.4230	2353.2472	2353.2642	-7.22	0	(82)	2.1e-007	1	K.GSLPPAALEPQTTVIHNPVDGK.E
<input checked="" type="checkbox"/>	<a href="#">551</a>	785.4232	2353.2478	2353.2642	-6.96	0	(80)	3.1e-007	1	K.GSLPPAALEPQTTVIHNPVDGK.E
<input checked="" type="checkbox"/>	<a href="#">552</a>	785.4244	2353.2514	2353.2642	-5.43	0	(71)	2.8e-006	1	K.GSLPPAALEPQTTVIHNPVDGK.E
<input checked="" type="checkbox"/>	<a href="#">553</a>	790.3778	2368.1116	2368.1250	-5.68	0	(88)	6.5e-008	1	R.QTTAPATMSTAASGTTMGLVEQAK.S + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">554</a>	790.3788	2368.1146	2368.1250	-4.42	0	(111)	3.2e-010	1	R.QTTAPATMSTAASGTTMGLVEQAK.S + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">555</a>	1185.0740	2368.1334	2368.1250	3.55	0	(88)	6.7e-008	1	R.QTTAPATMSTAASGTTMGLVEQAK.S + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">556</a>	1185.0802	2368.1458	2368.1250	8.79	0	(72)	2.9e-006	1	R.QTTAPATMSTAASGTTMGLVEQAK.S + Oxidation (M)

## Proteins matching the same set of peptides:

[IPI00875723](#) Mass: 68686 Score: 2503 Queries matched: 106  
Tax\_Id=10090 Gene\_Symbol=Camk2b 68 kDa protein

3. [IPI00406790](#) Mass: 60593 Score: 1774 Queries matched: 91 emPAI: 0.70  
Tax\_Id=10090 Gene\_Symbol=Camk2d Isoform 4 of Calcium/calmodulin-dependent protein kinase type II subunit 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	
<a href="#">5</a>	445.2779	444.2706	444.2696	2.25	0	(7)	29	1	K.GAAVK.L	
<a href="#">6</a>	445.2791	444.2718	444.2696	4.95	0	8	27	1	K.GAAVK.L	
<a href="#">11</a>	602.3611	601.3538	601.3435	17.2	0	12	12	1	K.DLINK.M	
<input checked="" type="checkbox"/>	<a href="#">149</a>	539.2814	1076.5482	1076.5502	-1.81	0	44	0.0034	1	K.IPTGQYAAK.I
<a href="#">161</a>	556.8326	1111.6506	1111.6349	14.1	1	(3)	16	6	K.KPDGVKINNK.A	
<a href="#">163</a>	556.8347	1111.6548	1111.6349	17.9	1	(1)	24	7	K.KPDGVKINNK.A	
<a href="#">166</a>	556.8363	1111.6580	1111.6349	20.8	1	(2)	21	3	K.KPDGVKINNK.A	
<input checked="" type="checkbox"/>	<a href="#">167</a>	556.8364	1111.6582	1111.6349	21.0	1	5	9.5	1	K.KPDGVKINNK.A
<a href="#">168</a>	556.8366	1111.6586	1111.6349	21.3	1	(3)	16	2	K.KPDGVKINNK.A	
<input checked="" type="checkbox"/>	<a href="#">174</a>	559.7805	1117.5464	1117.5444	1.84	0	(22)	0.52	1	R.FYFENALSK.S
<input checked="" type="checkbox"/>	<a href="#">175</a>	559.7811	1117.5476	1117.5444	2.92	0	27	0.16	1	R.FYFENALSK.S
<input checked="" type="checkbox"/>	<a href="#">176</a>	559.7817	1117.5488	1117.5444	3.99	0	(26)	0.2	1	R.FYFENALSK.S
<input checked="" type="checkbox"/>	<a href="#">177</a>	559.7820	1117.5494	1117.5444	4.53	0	(20)	0.76	1	R.FYFENALSK.S
<a href="#">197</a>	574.3211	1146.6276	1146.6431	-13.45	0	(62)	4.1e-005	1	K.GAILTTMLATR.N	
<a href="#">198</a>	574.3234	1146.6322	1146.6431	-9.43	0	(38)	0.011	1	K.GAILTTMLATR.N	
<a href="#">199</a>	574.3245	1146.6344	1146.6431	-7.52	0	(45)	0.002	1	K.GAILTTMLATR.N	
<a href="#">200</a>	574.3247	1146.6348	1146.6431	-7.17	0	(54)	0.00025	1	K.GAILTTMLATR.N	
<a href="#">201</a>	574.3251	1146.6356	1146.6431	-6.47	0	(52)	0.00036	1	K.GAILTTMLATR.N	
<a href="#">202</a>	574.3251	1146.6356	1146.6431	-6.47	0	(38)	0.011	1	K.GAILTTMLATR.N	
<a href="#">203</a>	574.3258	1146.6370	1146.6431	-5.25	0	(64)	2.4e-005	1	K.GAILTTMLATR.N	
<a href="#">204</a>	574.3258	1146.6370	1146.6431	-5.25	0	(59)	8.2e-005	1	K.GAILTTMLATR.N	
<a href="#">205</a>	574.3262	1146.6378	1146.6431	-4.55	0	(59)	7.9e-005	1	K.GAILTTMLATR.N	
<a href="#">206</a>	574.3262	1146.6378	1146.6431	-4.55	0	(43)	0.0032	1	K.GAILTTMLATR.N	
<a href="#">207</a>	574.3263	1146.6380	1146.6431	-4.38	0	(57)	0.00014	1	K.GAILTTMLATR.N	
<a href="#">208</a>	574.3271	1146.6396	1146.6431	-2.98	0	(48)	0.00088	1	K.GAILTTMLATR.N	
<a href="#">209</a>	574.3272	1146.6398	1146.6431	-2.81	0	(46)	0.0013	1	K.GAILTTMLATR.N	
<a href="#">210</a>	574.3275	1146.6404	1146.6431	-2.28	0	(41)	0.0049	1	K.GAILTTMLATR.N	
<a href="#">211</a>	574.3278	1146.6410	1146.6431	-1.76	0	(58)	8.4e-005	1	K.GAILTTMLATR.N	
<a href="#">212</a>	574.3279	1146.6412	1146.6431	-1.59	0	(59)	7.2e-005	1	K.GAILTTMLATR.N	
<a href="#">213</a>	574.3279	1146.6412	1146.6431	-1.59	0	(59)	7.1e-005	1	K.GAILTTMLATR.N	
<a href="#">214</a>	574.3279	1146.6412	1146.6431	-1.59	0	(59)	7.1e-005	1	K.GAILTTMLATR.N	
<a href="#">215</a>	574.3281	1146.6416	1146.6431	-1.24	0	(63)	3e-005	1	K.GAILTTMLATR.N	
<a href="#">216</a>	574.3281	1146.6416	1146.6431	-1.24	0	78	9.7e-007	1	K.GAILTTMLATR.N	
<a href="#">217</a>	574.3283	1146.6420	1146.6431	-0.89	0	(50)	0.00053	1	K.GAILTTMLATR.N	
<a href="#">218</a>	574.3287	1146.6428	1146.6431	-0.19	0	(49)	0.00065	1	K.GAILTTMLATR.N	
<a href="#">219</a>	574.3294	1146.6442	1146.6431	1.03	0	(56)	0.00015	1	K.GAILTTMLATR.N	
<a href="#">220</a>	574.3297	1146.6448	1146.6431	1.55	0	(31)	0.048	1	K.GAILTTMLATR.N	
<a href="#">221</a>	574.3318	1146.6490	1146.6431	5.22	0	(42)	0.0029	1	K.GAILTTMLATR.N	
<input checked="" type="checkbox"/>	<a href="#">303</a>	664.3068	1326.5990	1326.5948	3.20	0	(52)	0.0003	1	R.LTQYMDGSGMPK.T
<input checked="" type="checkbox"/>	<a href="#">304</a>	664.3070	1326.5994	1326.5948	3.50	0	(60)	4.5e-005	1	R.LTQYMDGSGMPK.T
<input checked="" type="checkbox"/>	<a href="#">305</a>	664.3091	1326.6036	1326.5948	6.67	0	71	3.9e-006	1	R.LTQYMDGSGMPK.T
<a href="#">308</a>	670.8843	1339.7540	1339.7711	-12.71	0	(4)	18	1	R.DLKPENLLASK.S	
<a href="#">309</a>	670.8865	1339.7584	1339.7711	-9.42	0	(20)	0.47	1	R.DLKPENLLASK.S	
<a href="#">310</a>	670.8892	1339.7638	1339.7711	-5.39	0	(27)	0.088	1	R.DLKPENLLASK.S	
<a href="#">311</a>	670.8903	1339.7660	1339.7711	-3.75	0	(52)	0.00028	1	R.DLKPENLLASK.S	
<a href="#">312</a>	670.8908	1339.7670	1339.7711	-3.00	0	(33)	0.018	1	R.DLKPENLLASK.S	
<a href="#">313</a>	670.8910	1339.7674	1339.7711	-2.70	0	(35)	0.012	1	R.DLKPENLLASK.S	
<a href="#">314</a>	670.8913	1339.7680	1339.7711	-2.26	0	(53)	0.00019	1	R.DLKPENLLASK.S	
<a href="#">315</a>	670.8915	1339.7684	1339.7711	-1.96	0	(60)	3.6e-005	1	R.DLKPENLLASK.S	
<a href="#">316</a>	670.8926	1339.7706	1339.7711	-0.32	0	(58)	6.1e-005	1	R.DLKPENLLASK.S	
<a href="#">317</a>	670.8928	1339.7710	1339.7711	-0.02	0	(23)	0.17	1	R.DLKPENLLASK.S	
<a href="#">318</a>	670.8931	1339.7716	1339.7711	0.43	0	(37)	0.0077	1	R.DLKPENLLASK.S	
<a href="#">319</a>	670.8934	1339.7722	1339.7711	0.88	0	(61)	3e-005	1	R.DLKPENLLASK.S	
<a href="#">320</a>	670.8937	1339.7728	1339.7711	1.33	0	(66)	8.4e-006	1	R.DLKPENLLASK.S	
<a href="#">321</a>	670.8940	1339.7734	1339.7711	1.77	0	82	2.1e-007	1	R.DLKPENLLASK.S	
<a href="#">322</a>	670.8940	1339.7734	1339.7711	1.77	0	(67)	6.9e-006	1	R.DLKPENLLASK.S	
<a href="#">323</a>	670.8940	1339.7734	1339.7711	1.77	0	(63)	1.7e-005	1	R.DLKPENLLASK.S	
<a href="#">324</a>	670.8945	1339.7744	1339.7711	2.52	0	(51)	0.00028	1	R.DLKPENLLASK.S	
<a href="#">325</a>	670.8946	1339.7746	1339.7711	2.67	0	(70)	3.2e-006	1	R.DLKPENLLASK.S	

<a href="#">326</a>	670.8951	1339.7756	1339.7711	3.42	0	(63)	1.6e-005	1	R.DLKPENLLLASK.S
<a href="#">327</a>	670.8954	1339.7762	1339.7711	3.86	0	(63)	1.6e-005	1	R.DLKPENLLLASK.S
<a href="#">328</a>	670.8955	1339.7764	1339.7711	4.01	0	(59)	4.4e-005	1	R.DLKPENLLLASK.S
<input checked="" type="checkbox"/> <a href="#">329</a>	<b>672.3059</b>	<b>1342.5972</b>	<b>1342.5897</b>	<b>5.61</b>	<b>0</b>	<b>(54)</b>	<b>0.00014</b>	<b>1</b>	<b>R.LTQYMDGSGMPK.T + Oxidation (M)</b>
<input checked="" type="checkbox"/> <a href="#">390</a>	<b>809.8870</b>	<b>1617.7594</b>	<b>1617.7562</b>	<b>1.98</b>	<b>0</b>	<b>(55)</b>	<b>0.00018</b>	<b>1</b>	<b>R.FTDEYQLFPEELGK.G</b>
<input checked="" type="checkbox"/> <a href="#">391</a>	<b>809.8891</b>	<b>1617.7636</b>	<b>1617.7562</b>	<b>4.58</b>	<b>0</b>	<b>66</b>	<b>1.5e-005</b>	<b>1</b>	<b>R.FTDEYQLFPEELGK.G</b>
<input checked="" type="checkbox"/> <a href="#">392</a>	<b>809.8947</b>	<b>1617.7748</b>	<b>1617.7562</b>	<b>11.5</b>	<b>0</b>	<b>(60)</b>	<b>6.7e-005</b>	<b>1</b>	<b>R.FTDEYQLFPEELGK.G</b>
<a href="#">483</a>	1040.9476	2079.8806	2079.9426	-29.76	0	(74)	8.8e-007	1	K.AGAYDFPSPPEWDTVPEAK.D
<a href="#">484</a>	1040.9493	2079.8840	2079.9426	-28.13	0	(58)	3.7e-005	1	K.AGAYDFPSPPEWDTVPEAK.D
<a href="#">485</a>	1040.9618	2079.9090	2079.9426	-16.11	0	(57)	5.8e-005	1	K.AGAYDFPSPPEWDTVPEAK.D
<a href="#">486</a>	694.3159	2079.9259	2079.9426	-8.02	0	(70)	3.7e-006	1	K.AGAYDFPSPPEWDTVPEAK.D
<a href="#">487</a>	694.3180	2079.9322	2079.9426	-4.99	0	90	3.7e-008	1	K.AGAYDFPSPPEWDTVPEAK.D
<a href="#">488</a>	1040.9735	2079.9324	2079.9426	-4.86	0	(42)	0.0023	1	K.AGAYDFPSPPEWDTVPEAK.D
<a href="#">489</a>	1040.9767	2079.9388	2079.9426	-1.78	0	(64)	1.7e-005	1	K.AGAYDFPSPPEWDTVPEAK.D
<a href="#">490</a>	1040.9814	2079.9482	2079.9426	2.74	0	(62)	2.8e-005	1	K.AGAYDFPSPPEWDTVPEAK.D
<a href="#">491</a>	1040.9825	2079.9504	2079.9426	3.80	0	(75)	1.4e-006	1	K.AGAYDFPSPPEWDTVPEAK.D
<a href="#">558</a>	888.7586	2663.2540	2663.2755	-8.08	1	(47)	0.00081	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">559</a>	888.7591	2663.2555	2663.2755	-7.52	1	(71)	3.1e-006	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">560</a>	888.7594	2663.2564	2663.2755	-7.18	1	(90)	4e-008	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">561</a>	888.7601	2663.2585	2663.2755	-6.39	1	(59)	4.9e-005	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">562</a>	888.7601	2663.2585	2663.2755	-6.39	1	97	8.5e-009	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">563</a>	888.7603	2663.2591	2663.2755	-6.17	1	(78)	7e-007	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">564</a>	888.7603	2663.2591	2663.2755	-6.17	1	(79)	5.1e-007	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">565</a>	888.7603	2663.2591	2663.2755	-6.17	1	(78)	7e-007	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">566</a>	888.7608	2663.2606	2663.2755	-5.60	1	(74)	1.5e-006	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">567</a>	888.7608	2663.2606	2663.2755	-5.60	1	(52)	0.00027	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">568</a>	888.7616	2663.2630	2663.2755	-4.70	1	(32)	0.03	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">569</a>	888.7617	2663.2633	2663.2755	-4.59	1	(26)	0.11	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">570</a>	888.7621	2663.2645	2663.2755	-4.14	1	(79)	4.8e-007	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">571</a>	888.7621	2663.2645	2663.2755	-4.14	1	(67)	7.6e-006	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">572</a>	888.7629	2663.2669	2663.2755	-3.24	1	(78)	6e-007	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M
<a href="#">573</a>	888.7650	2663.2732	2663.2755	-0.87	1	(12)	2.6	1	K.AGAYDFPSPPEWDTVPEAKDLINK.M

Proteins matching the same set of peptides:

[IPI00858128](#) Mass: 58283 Score: 1774 Queries matched: 91

Tax\_id=10090 Gene\_Symbol=Camk2d calcium/calmodulin-dependent protein kinase type II subunit delta isoform 1

4. [IPI00124695](#) Mass: 60254 Score: 1126 Queries matched: 53 emPAI: 0.61

Tax\_id=10090 Gene\_Symbol=Camk2g Isoform 1 of Calcium/calmodulin-dependent protein kinase type II 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
<a href="#">5</a>	445.2779	444.2706	444.2696	2.25	0	(7)	29	1	K.GAAVK.L
<a href="#">6</a>	445.2791	444.2718	444.2696	4.95	0	8	27	1	K.GAAVK.L
<input checked="" type="checkbox"/> <a href="#">230</a>	<b>580.8067</b>	<b>1159.5988</b>	<b>1159.5913</b>	<b>6.48</b>	<b>0</b>	<b>22</b>	<b>0.52</b>	<b>1</b>	<b>K.FYFENLLSK.N</b>
<input checked="" type="checkbox"/> <a href="#">231</a>	<b>580.8068</b>	<b>1159.5990</b>	<b>1159.5913</b>	<b>6.65</b>	<b>0</b>	<b>(22)</b>	<b>0.52</b>	<b>1</b>	<b>K.FYFENLLSK.N</b>
<a href="#">308</a>	670.8843	1339.7540	1339.7711	-12.71	0	(4)	18	1	R.DLKPENLLLASK.C
<a href="#">309</a>	670.8865	1339.7584	1339.7711	-9.42	0	(20)	0.47	1	R.DLKPENLLLASK.C
<a href="#">310</a>	670.8892	1339.7638	1339.7711	-5.39	0	(27)	0.088	1	R.DLKPENLLLASK.C
<a href="#">311</a>	670.8903	1339.7660	1339.7711	-3.75	0	(52)	0.00028	1	R.DLKPENLLLASK.C
<a href="#">312</a>	670.8908	1339.7670	1339.7711	-3.00	0	(33)	0.018	1	R.DLKPENLLLASK.C
<a href="#">313</a>	670.8910	1339.7674	1339.7711	-2.70	0	(35)	0.012	1	R.DLKPENLLLASK.C
<a href="#">314</a>	670.8913	1339.7680	1339.7711	-2.26	0	(53)	0.00019	1	R.DLKPENLLLASK.C
<a href="#">315</a>	670.8915	1339.7684	1339.7711	-1.96	0	(60)	3.6e-005	1	R.DLKPENLLLASK.C
<a href="#">316</a>	670.8926	1339.7706	1339.7711	-0.32	0	(58)	6.1e-005	1	R.DLKPENLLLASK.C
<a href="#">317</a>	670.8928	1339.7710	1339.7711	-0.02	0	(23)	0.17	1	R.DLKPENLLLASK.C
<a href="#">318</a>	670.8931	1339.7716	1339.7711	0.43	0	(37)	0.0077	1	R.DLKPENLLLASK.C
<a href="#">319</a>	670.8934	1339.7722	1339.7711	0.88	0	(61)	3e-005	1	R.DLKPENLLLASK.C
<a href="#">320</a>	670.8937	1339.7728	1339.7711	1.33	0	(66)	8.4e-006	1	R.DLKPENLLLASK.C
<a href="#">321</a>	670.8940	1339.7734	1339.7711	1.77	0	82	2.1e-007	1	R.DLKPENLLLASK.C
<a href="#">322</a>	670.8940	1339.7734	1339.7711	1.77	0	(67)	6.9e-006	1	R.DLKPENLLLASK.C
<a href="#">323</a>	670.8940	1339.7734	1339.7711	1.77	0	(63)	1.7e-005	1	R.DLKPENLLLASK.C
<a href="#">324</a>	670.8945	1339.7744	1339.7711	2.52	0	(51)	0.00028	1	R.DLKPENLLLASK.C
<a href="#">325</a>	670.8946	1339.7746	1339.7711	2.67	0	(70)	3.2e-006	1	R.DLKPENLLLASK.C
<a href="#">326</a>	670.8951	1339.7756	1339.7711	3.42	0	(63)	1.6e-005	1	R.DLKPENLLLASK.C
<a href="#">327</a>	670.8954	1339.7762	1339.7711	3.86	0	(63)	1.6e-005	1	R.DLKPENLLLASK.C
<a href="#">328</a>	670.8955	1339.7764	1339.7711	4.01	0	(59)	4.4e-005	1	R.DLKPENLLLASK.C
<a href="#">346</a>	468.5799	1402.7179	1402.7317	-9.86	0	(50)	0.00069	1	R.LTQYIDGQGRPR.T
<a href="#">347</a>	468.5800	1402.7182	1402.7317	-9.65	0	(51)	0.00053	1	R.LTQYIDGQGRPR.T
<a href="#">348</a>	468.5803	1402.7191	1402.7317	-9.01	0	(52)	0.00046	1	R.LTQYIDGQGRPR.T
<a href="#">349</a>	468.5805	1402.7197	1402.7317	-8.58	0	(38)	0.011	1	R.LTQYIDGQGRPR.T
<a href="#">350</a>	468.5811	1402.7215	1402.7317	-7.30	0	59	8.4e-005	1	R.LTQYIDGQGRPR.T
<a href="#">351</a>	702.3745	1402.7344	1402.7317	1.96	0	(53)	0.00035	1	R.LTQYIDGQGRPR.T
<a href="#">352</a>	702.3751	1402.7356	1402.7317	2.81	0	(39)	0.0085	1	R.LTQYIDGQGRPR.T
<a href="#">353</a>	702.3760	1402.7374	1402.7317	4.09	0	(43)	0.0035	1	R.LTQYIDGQGRPR.T
<a href="#">354</a>	702.3771	1402.7396	1402.7317	5.66	0	(18)	0.99	1	R.LTQYIDGQGRPR.T
<a href="#">355</a>	702.3782	1402.7418	1402.7317	7.23	0	(26)	0.17	1	R.LTQYIDGQGRPR.T
<a href="#">360</a>	735.4061	1468.7976	1468.8071	-6.47	0	75	1.8e-006	1	K.NLINQMLTINPAK.R
<a href="#">361</a>	735.4121	1468.8096	1468.8071	1.70	0	(71)	4.1e-006	1	K.NLINQMLTINPAK.R
<a href="#">362</a>	735.4124	1468.8102	1468.8071	2.11	0	(41)	0.0041	1	K.NLINQMLTINPAK.R
<a href="#">363</a>	735.4127	1468.8108	1468.8071	2.52	0	(70)	4.3e-006	1	K.NLINQMLTINPAK.R
<a href="#">364</a>	735.4138	1468.8130	1468.8071	4.02	0	(71)	3.5e-006	1	K.NLINQMLTINPAK.R
<input checked="" type="checkbox"/> <a href="#">385</a>	<b>802.8809</b>	<b>1603.7472</b>	<b>1603.7406</b>	<b>4.14</b>	<b>0</b>	<b>70</b>	<b>5.2e-006</b>	<b>1</b>	<b>R.FTDDYQLFPEELGK.G</b>
<input checked="" type="checkbox"/> <a href="#">386</a>	<b>802.8814</b>	<b>1603.7482</b>	<b>1603.7406</b>	<b>4.77</b>	<b>0</b>	<b>(60)</b>	<b>5.5e-005</b>	<b>1</b>	<b>R.FTDDYQLFPEELGK.G</b>
<input checked="" type="checkbox"/> <a href="#">387</a>	<b>802.8885</b>	<b>1603.7624</b>	<b>1603.7406</b>	<b>13.6</b>	<b>0</b>	<b>(59)</b>	<b>7.2e-005</b>	<b>1</b>	<b>R.FTDDYQLFPEELGK.G</b>
<a href="#">397</a>	542.6334	1624.8784	1624.9082	-18.39	1	45	0.0014	1	K.NLINQMLTINPAKR.I
<a href="#">483</a>	1040.9476	2079.8806	2079.9426	-29.76	0	(74)	8.8e-007	1	K.AGAYDFPSPPEWDTVPEAK.N
<a href="#">484</a>	1040.9493	2079.8840	2079.9426	-28.13	0	(58)	3.7e-005	1	K.AGAYDFPSPPEWDTVPEAK.N
<a href="#">485</a>	1040.9618	2079.9090	2079.9426	-16.11	0	(57)	5.8e-005	1	K.AGAYDFPSPPEWDTVPEAK.N

<a href="#">486</a>	694.3159	2079.9259	2079.9426	-8.02	0	(70)	3.7e-006	1	K.AGAYDFPSPEDTIVTPEAK.N
<a href="#">487</a>	694.3180	2079.9322	2079.9426	-4.99	0	90	3.7e-008	1	K.AGAYDFPSPEDTIVTPEAK.N
<a href="#">488</a>	1040.9735	2079.9324	2079.9426	-4.86	0	(42)	0.0023	1	K.AGAYDFPSPEDTIVTPEAK.N
<a href="#">489</a>	1040.9767	2079.9388	2079.9426	-1.78	0	(64)	1.7e-005	1	K.AGAYDFPSPEDTIVTPEAK.N
<a href="#">490</a>	1040.9814	2079.9482	2079.9426	2.74	0	(62)	2.8e-005	1	K.AGAYDFPSPEDTIVTPEAK.N
<a href="#">491</a>	1040.9825	2079.9504	2079.9426	3.80	0	(75)	1.4e-006	1	K.AGAYDFPSPEDTIVTPEAK.N

## Proteins matching the same set of peptides:

[IPI00228044](#) Mass: 59013 Score: 1126 Queries matched: 53  
Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 2 of Calcium/calmodulin-dependent protein kinase type II subunit gamma  
[IPI00228045](#) Mass: 56610 Score: 1126 Queries matched: 53  
Tax\_Id=10090 Gene\_Symbol=Camk2g Isoform 3 of Calcium/calmodulin-dependent protein kinase type II subunit gamma

5. [IPI00169463](#) Mass: 50255 Score: 246 Queries matched: 13 emPAI: 0.21

Tax\_Id=10090 Gene\_Symbol=Tubb2c Tubulin beta-2C 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
<a href="#">148</a>	539.2706	1076.5266	1076.5250	1.49	1	13	4.6	2	K.IREEXPDR.I
<input checked="" type="checkbox"/> <a href="#">301</a>	660.3567	1318.6988	1318.6955	2.53	0	80	7.9e-007	1	R.IMNTFVVPSPK.V
<input checked="" type="checkbox"/> <a href="#">302</a>	660.3600	1318.7054	1318.6955	7.54	0	(80)	7.5e-007	1	R.IMNTFVVPSPK.V
<input checked="" type="checkbox"/> <a href="#">382</a>	801.4147	1600.8148	1600.8131	1.11	0	(76)	1.4e-006	1	R.AVLVDLEPGTMSVR.S
<input checked="" type="checkbox"/> <a href="#">383</a>	801.4150	1600.8154	1600.8131	1.49	0	87	1.2e-007	1	R.AVLVDLEPGTMSVR.S
<input checked="" type="checkbox"/> <a href="#">384</a>	801.4154	1600.8162	1600.8131	1.99	0	(43)	0.0028	1	R.AVLVDLEPGTMSVR.S
<input checked="" type="checkbox"/> <a href="#">432</a>	846.4415	1690.8684	1690.8600	5.00	0	46	0.0016	1	R.ALTVPQLTQMFDAK.N
<input checked="" type="checkbox"/> <a href="#">434</a>	848.9237	1695.8328	1695.8257	4.24	0	(20)	0.63	1	K.NSSYFVEWIPNVK.T
<input checked="" type="checkbox"/> <a href="#">435</a>	848.9244	1695.8342	1695.8257	5.07	0	26	0.15	1	K.NSSYFVEWIPNVK.T
<input checked="" type="checkbox"/> <a href="#">439</a>	854.4377	1706.8608	1706.8549	3.47	0	(13)	3.4	2	R.ALTVPQLTQMFDAK.N + Oxidation (M)
<input checked="" type="checkbox"/> <a href="#">584</a>	933.4465	2797.3177	2797.3361	-6.60	0	(22)	0.23	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G
<input checked="" type="checkbox"/> <a href="#">585</a>	933.4496	2797.3270	2797.3361	-3.27	0	(18)	0.54	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G
<input checked="" type="checkbox"/> <a href="#">586</a>	933.4506	2797.3300	2797.3361	-2.20	0	27	0.073	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G

6. [IPI00110850](#) Mass: 42052 Score: 234 Queries matched: 7 emPAI: 0.25

Tax\_Id=10090 Gene\_Symbol=Actb Actin, cytoplasmic 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"/> <a href="#">233</a>	581.3168	1160.6190	1160.6111	6.86	0	35	0.025	1	K.EITALAPSTMK.I
<input checked="" type="checkbox"/> <a href="#">452</a>	895.9521	1789.8896	1789.8846	2.80	0	96	1.4e-008	1	K.SYELPDGQVITIGNER.F
<input checked="" type="checkbox"/> <a href="#">453</a>	895.9536	1789.8926	1789.8846	4.48	0	(87)	1.1e-007	1	K.SYELPDGQVITIGNER.F
<input checked="" type="checkbox"/> <a href="#">468</a>	652.0190	1953.0352	1953.0571	-11.23	0	(56)	0.00011	1	R.VAPEEHPVLLTEAPLNPK.A
<input checked="" type="checkbox"/> <a href="#">469</a>	652.0204	1953.0394	1953.0571	-9.08	0	(30)	0.044	2	R.VAPEEHPVLLTEAPLNPK.A
<input checked="" type="checkbox"/> <a href="#">470</a>	652.0221	1953.0445	1953.0571	-6.46	0	63	2.1e-005	1	R.VAPEEHPVLLTEAPLNPK.A
<input checked="" type="checkbox"/> <a href="#">471</a>	652.0244	1953.0514	1953.0571	-2.93	0	(60)	4.2e-005	1	R.VAPEEHPVLLTEAPLNPK.A

## Proteins matching the same set of peptides:

[IPI00136929](#) Mass: 44029 Score: 234 Queries matched: 7  
Tax\_Id=10090 Gene\_Symbol=Actg1 Gamma actin-like protein  
[IPI00473320](#) Mass: 42115 Score: 234 Queries matched: 7  
Tax\_Id=10090 Gene\_Symbol=Actb Putative uncharacterized protein  
[IPI00652436](#) Mass: 42053 Score: 234 Queries matched: 7  
Tax\_Id=10090 Gene\_Symbol=Actg1 Putative uncharacterized protein  
[IPI00874482](#) Mass: 42108 Score: 234 Queries matched: 7  
Tax\_Id=10090 Gene\_Symbol=Actg1 Actin, cytoplasmic 2

7. [IPI00115546](#) Mass: 40524 Score: 208 Queries matched: 3 emPAI: 0.17

Tax\_Id=10090 Gene\_Symbol=Gnao1 Isoform Alpha-2 of Guanine nucleotide-binding protein G(o) 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"/> <a href="#">431</a>	838.4230	1674.8314	1674.8213	6.06	0	99	8e-009	1	R.IGAGYQPTQDILR.T
<input checked="" type="checkbox"/> <a href="#">472</a>	979.4432	1956.8718	1956.8631	4.48	0	(86)	9.3e-008	1	R.MEDTEPFSAEILLSAMMR.L
<input checked="" type="checkbox"/> <a href="#">473</a>	979.4452	1956.8758	1956.8631	6.52	0	92	2.4e-008	1	R.MEDTEPFSAEILLSAMMR.L

## Proteins matching the same set of peptides:

[IPI00230192](#) Mass: 40629 Score: 208 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Gnao1 Isoform Alpha-1 of Guanine nucleotide-binding protein G(o) subunit alpha  
[IPI00969970](#) Mass: 20777 Score: 208 Queries matched: 3  
Tax\_Id=10090 Gene\_Symbol=Gnao1 Uncharacterized protein

8. [IPI00221528](#) Mass: 42319 Score: 172 Queries matched: 6 emPAI: 0.16

Tax\_Id=10090 Gene\_Symbol=Actb12 Beta-actin-like 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
<a href="#">452</a>	895.9521	1789.8896	1789.8846	2.80	0	96	1.4e-008	1	R.SYELPDGQVITIGNER.F
<a href="#">453</a>	895.9536	1789.8926	1789.8846	4.48	0	(87)	1.1e-007	1	R.SYELPDGQVITIGNER.F
<a href="#">468</a>	652.0190	1953.0352	1953.0571	-11.23	0	48	0.00078	2	R.VAPDEHPILLTEAPLNPK.I
<input checked="" type="checkbox"/> <a href="#">469</a>	652.0204	1953.0394	1953.0571	-9.08	0	(31)	0.035	1	R.VAPDEHPILLTEAPLNPK.I
<a href="#">470</a>	652.0221	1953.0445	1953.0571	-6.46	0	(43)	0.0023	2	R.VAPDEHPILLTEAPLNPK.I
<a href="#">471</a>	652.0244	1953.0514	1953.0571	-2.93	0	(32)	0.028	2	R.VAPDEHPILLTEAPLNPK.I



9. [IPI00112251](#) Mass: 50842 Score: 162 Queries matched: 8 emPAI: 0.21  
Tax\_Id=10090 Gene\_Symbol=Tubb3 Tubulin beta-3 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
<a href="#">301</a>	660.3567	1318.6988	1318.6955	2.53	0	80	7.9e-007	1	R.IMNTFSVVVSPK.V
<a href="#">302</a>	660.3600	1318.7054	1318.6955	7.54	0	(80)	7.5e-007	1	R.IMNTFSVVVSPK.V
<input checked="" type="checkbox"/> <a href="#">388</a>	808.4205	1614.8264	1614.8287	-1.40	0	(38)	0.011	1	R.AILVDLEPGTMSVR.S
<input checked="" type="checkbox"/> <a href="#">389</a>	808.4229	1614.8312	1614.8287	1.57	0	52	0.00045	1	R.AILVDLEPGTMSVR.S
<a href="#">432</a>	846.4415	1690.8684	1690.8600	5.00	0	46	0.0016	1	R.ALTVPQLTQMFDAK.N
<a href="#">434</a>	848.9237	1695.8328	1695.8257	4.24	0	(20)	0.63	1	K.NSSYFVEWIPNNVK.V
<a href="#">435</a>	848.9244	1695.8342	1695.8257	5.07	0	26	0.15	1	K.NSSYFVEWIPNNVK.V
<a href="#">439</a>	854.4377	1706.8608	1706.8549	3.47	0	(13)	3.4	2	R.ALTVPQLTQMFDAK.N + Oxidation (M)

10. [IPI00323571](#) Mass: 35901 Score: 147 Queries matched: 8 emPAI: 0.42  
Tax\_Id=10090 Gene\_Symbol=ApoE Apolipoprotein E

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"/> <a href="#">92</a>	484.7768	967.5390	967.5451	-6.23	0	(56)	0.00011	1	R.LGPLVEQGR.Q
<input checked="" type="checkbox"/> <a href="#">93</a>	484.7803	967.5460	967.5451	1.01	0	57	8.5e-005	1	R.LGPLVEQGR.Q
<input checked="" type="checkbox"/> <a href="#">144</a>	538.2992	1074.5838	1074.5822	1.56	0	46	0.0024	1	R.LQAEIFQAR.L
<input checked="" type="checkbox"/> <a href="#">145</a>	538.2996	1074.5846	1074.5822	2.31	0	(43)	0.0043	1	R.LQAEIFQAR.L
<a href="#">147</a>	538.3003	1074.5860	1074.5822	3.61	0	(14)		3	R.LQAEIFQAR.L
<input checked="" type="checkbox"/> <a href="#">234</a>	581.7838	1161.5530	1161.5448	7.10	0	42	0.0054	1	K.MEEQTTQIR.L
<input checked="" type="checkbox"/> <a href="#">381</a>	800.4018	1598.7890	1598.7787	6.44	0	74	2.7e-006	1	K.ELEEGLGVAEETRA
<input checked="" type="checkbox"/> <a href="#">476</a>	997.5348	1993.0550	1993.0480	3.53	0	13	2.7	1	K.IQASVATNPITFVAQENQ.-

11. [IPI00117352](#) Mass: 50095 Score: 141 Queries matched: 11 emPAI: 0.14  
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
<a href="#">148</a>	539.2706	1076.5266	1076.5250	1.49	1	13	4.6	2	K.IREYVDR.I
<a href="#">301</a>	660.3567	1318.6988	1318.6955	2.53	0	80	7.9e-007	1	R.IMNTFSVVVSPK.V
<a href="#">302</a>	660.3600	1318.7054	1318.6955	7.54	0	(80)	7.5e-007	1	R.IMNTFSVVVSPK.V
<a href="#">388</a>	808.4205	1614.8264	1614.8287	-1.40	0	(38)	0.011	1	R.AILVDLEPGTMSVR.S
<a href="#">389</a>	808.4229	1614.8312	1614.8287	1.57	0	52	0.00045	1	R.AILVDLEPGTMSVR.S
<input checked="" type="checkbox"/> <a href="#">429</a>	830.4437	1658.8728	1658.8879	-9.10	0	20	0.54	1	R.ALTVPQLTQMFDAK.N
<a href="#">434</a>	848.9237	1695.8328	1695.8257	4.24	0	(20)	0.63	1	K.NSSYFVEWIPNNVK.T
<a href="#">435</a>	848.9244	1695.8342	1695.8257	5.07	0	26	0.15	1	K.NSSYFVEWIPNNVK.T
<a href="#">584</a>	933.4465	2797.3177	2797.3361	-6.60	0	(22)	0.23	1	R.SGPFQIFRPDVFVFGQSGAGNNWAK.G
<a href="#">585</a>	933.4496	2797.3270	2797.3361	-3.27	0	(18)	0.54	1	R.SGPFQIFRPDVFVFGQSGAGNNWAK.G
<a href="#">586</a>	933.4506	2797.3300	2797.3361	-2.20	0	27	0.073	1	R.SGPFQIFRPDVFVFGQSGAGNNWAK.G

12. [IPI00138892](#) Mass: 15004 Score: 133 Queries matched: 4 emPAI: 0.23  
Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin-60S ribosomal protein L40

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"/> <a href="#">448</a>	894.4662	1786.9178	1786.9200	-1.21	0	(47)	0.0012	1	K.TITLEVEPSDTIENVK.A
<input checked="" type="checkbox"/> <a href="#">449</a>	894.4691	1786.9236	1786.9200	2.03	0	(65)	2.1e-005	1	K.TITLEVEPSDTIENVK.A
<input checked="" type="checkbox"/> <a href="#">450</a>	894.4700	1786.9254	1786.9200	3.04	0	71	4.7e-006	1	K.TITLEVEPSDTIENVK.A
<input checked="" type="checkbox"/> <a href="#">451</a>	894.4707	1786.9268	1786.9200	3.83	0	(53)	0.00033	1	K.TITLEVEPSDTIENVK.A

Proteins matching the same set of peptides:

[IPI00470152](#) Mass: 18282 Score: 133 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Rps27a Ubiquitin-40S ribosomal protein S27a

[IPI00895319](#) Mass: 22277 Score: 133 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=2810422J05Rik 22 kDa protein

[IPI00895479](#) Mass: 27181 Score: 133 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=2810422J05Rik 27 kDa protein

[IPI00918763](#) Mass: 11021 Score: 133 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Uba52 Ubiquitin subunit 1

[IPI00750889](#) Mass: 22822 Score: 133 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Ubc Ubc protein

[IPI00923013](#) Mass: 26603 Score: 133 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Ubb Ubiquitin B

[IPI00923037](#) Mass: 22578 Score: 133 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Ubc Putative uncharacterized protein

[IPI00139518](#) Mass: 34348 Score: 133 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Ubb Polyubiquitin-B

[IPI00755916](#) Mass: 82614 Score: 133 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Ubc ubiquitin

[IPI00969323](#) Mass: 82603 Score: 133 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Ubc Polyubiquitin-C

13. [IPI00755181](#) Mass: 57178 Score: 132 Queries matched: 5 emPAI: 0.12  
Tax\_Id=10090 Gene\_Symbol=Krt10 keratin, type I cytoskeletal 10

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"/> <a href="#">154</a>	545.7697	1089.5248	1089.5237	1.07	0	(46)	0.002	1	K.VTMQLNDR.L

<input checked="" type="checkbox"/>	<a href="#">155</a>	545.7701	1089.5256	1089.5237	1.80	0	64	3.4e-005	1	K.VTMQNLNDR.L
<input checked="" type="checkbox"/>	<a href="#">156</a>	545.7711	1089.5276	1089.5237	3.64	0	(62)	5.4e-005	1	K.VTMQNLNDR.L
<input checked="" type="checkbox"/>	<a href="#">334</a>	691.3312	1380.6478	1380.6408	5.08	0	(52)	0.00036	1	R.ALEESNYELEGK.I
<input checked="" type="checkbox"/>	<a href="#">335</a>	691.3317	1380.6488	1380.6408	5.80	0	61	4.3e-005	1	R.ALEESNYELEGK.I

## Proteins matching the same set of peptides:

[IPI00798492](#) Mass: 57906 Score: 132 Queries matched: 5  
Tax\_Id=10090 Gene\_Symbol=Krt10 Isoform 1 of Keratin, type I cytoskeletal 10  
[IPI00828744](#) Mass: 57197 Score: 132 Queries matched: 5  
Tax\_Id=10090 Gene\_Symbol=Krt10 Isoform 2 of Keratin, type I cytoskeletal 10

14. [IPI00122094](#) Mass: 85656 Score: 123 Queries matched: 2 emPAI: 0.04

Tax\_Id=10090 Gene\_Symbol=Dlg4 Isoform 2 of Disks large homolog 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"/>	<a href="#">441</a>	857.9645	1713.9144	1713.9090	3.18	0	83	2.7e-007	1	R.VIEDLSGPIYIWPV.PAR.E
<input checked="" type="checkbox"/>	<a href="#">442</a>	857.9650	1713.9154	1713.9090	3.76	0	(68)	8e-006	1	R.VIEDLSGPIYIWPV.PAR.E

## Proteins matching the same set of peptides:

[IPI00622720](#) Mass: 80765 Score: 123 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Dlg4 Isoform 1 of Disks large homolog 4  
[IPI00626797](#) Mass: 80395 Score: 123 Queries matched: 2  
Tax\_Id=10090 Gene\_Symbol=Dlg4 Isoform 3 of Disks large homolog 4

15. [IPI00131366](#) Mass: 60627 Score: 114 Queries matched: 4 emPAI: 0.05

Tax\_Id=10090 Gene\_Symbol=Krt6b Keratin, type II cytoskeletal 6B

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"/>	<a href="#">288</a>	651.8555	1301.6964	1301.7078	-8.74	0	(30)	0.072	1	R.SLDLDSIIAEVK.A
<input checked="" type="checkbox"/>	<a href="#">289</a>	651.8582	1301.7018	1301.7078	-4.59	0	(45)	0.0022	1	R.SLDLDSIIAEVK.A
<input checked="" type="checkbox"/>	<a href="#">290</a>	651.8605	1301.7064	1301.7078	-1.06	0	(60)	6.3e-005	1	R.SLDLDSIIAEVK.A
<input checked="" type="checkbox"/>	<a href="#">291</a>	651.8612	1301.7078	1301.7078	0.02	0	67	1.3e-005	1	R.SLDLDSIIAEVK.A

## Proteins matching the same set of peptides:

[IPI00131368](#) Mass: 59641 Score: 114 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Krt6a Keratin, type II cytoskeletal 6A  
[IPI00139301](#) Mass: 61957 Score: 114 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Krt5 Keratin, type II cytoskeletal 5  
[IPI00221797](#) Mass: 59932 Score: 114 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Krt75 Keratin, type II cytoskeletal 75  
[IPI00330480](#) Mass: 35315 Score: 114 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=- 35 kDa protein  
[IPI00470126](#) Mass: 60553 Score: 114 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Krt5 Uncharacterized protein  
[IPI00762364](#) Mass: 50641 Score: 114 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Krt6a Uncharacterized protein  
[IPI00785403](#) Mass: 59832 Score: 114 Queries matched: 4  
Tax\_Id=10090 Gene\_Symbol=Krt6b keratin, type II cytoskeletal 6B

16. [IPI00134997](#) Mass: 106777 Score: 112 Queries matched: 1 emPAI: 0.03

Tax\_Id=10090 Gene\_Symbol=Dlgap3 Disks large-associated protein 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"/>	<a href="#">369</a>	751.8735	1501.7324	1501.7274	3.39	0	112	4.7e-010	1	R.GPAGPGPGGGAAPPEAR.S

## Proteins matching the same set of peptides:

[IPI00648401](#) Mass: 105576 Score: 112 Queries matched: 1  
Tax\_Id=10090 Gene\_Symbol=Dlgap3 Discs, large (Drosophila) homolog-associated protein 3

17. [IPI00122928](#) Mass: 50514 Score: 97 Queries matched: 6 emPAI: 0.13

Tax\_Id=10090 Gene\_Symbol=Tubb6 Tubulin beta-6 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		
<a href="#">148</a>	539.2706	1076.5266	1076.5250	1.49	1	13	4.6	2	K.IREYYPDR.I	
<input checked="" type="checkbox"/>	<a href="#">331</a>	676.3433	1350.6720	1350.6676	3.31	0	78	1.2e-006	1	R.IMNTFVMPSPK.V
<a href="#">432</a>	846.4415	1690.8684	1690.8600	5.00	0	46	0.0016	1	R.ALTVPELTQQMFDPAK.N	
<a href="#">434</a>	848.9237	1695.8328	1695.8257	4.24	0	(20)	0.63	1	K.NSSYPVEWIPNNVK.V	
<a href="#">435</a>	848.9244	1695.8342	1695.8257	5.07	0	26	0.15	1	K.NSSYPVEWIPNNVK.V	
<a href="#">439</a>	854.4377	1706.8608	1706.8549	3.47	0	(13)	3.4	2	R.ALTVPELTQQMFDPAK.N + Oxidation (M)	

18. [IPI00109061](#) Mass: 50377 Score: 96 Queries matched: 10 emPAI: 0.14

Tax\_Id=10090 Gene\_Symbol=Tubb2b Tubulin beta-2B 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	
<a href="#">148</a>	539.2706	1076.5266	1076.5250	1.49	1	13	4.6	2	K.IREYYPDR.I
<a href="#">331</a>	676.3433	1350.6720	1350.6676	3.31	0	78	1.2e-006	1	R.IMNTFVMPSPK.V
<a href="#">388</a>	808.4205	1614.8264	1614.8287	-1.40	0	(38)	0.011	1	R.AILVDLEPGTMSVRS.S
<a href="#">389</a>	808.4229	1614.8312	1614.8287	1.57	0	52	0.00045	1	R.AILVDLEPGTMSVRS.S

<a href="#">434</a>	848.9237	1695.8328	1695.8257	4.24	0	(20)	0.63	1	K.NSSYFVEWIPNNVK.T	
<a href="#">435</a>	848.9244	1695.8342	1695.8257	5.07	0	26	0.15	1	K.NSSYFVEWIPNNVK.T	
<input checked="" type="checkbox"/>	<a href="#">439</a>	854.4377	1706.8608	1706.8549	3.47	0	20	0.61	1	R.ALTVPQLTQMPFDSK.N
<a href="#">584</a>	933.4465	2797.3177	2797.3361	-6.60	0	(22)	0.23	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G	
<a href="#">585</a>	933.4496	2797.3270	2797.3361	-3.27	0	(18)	0.54	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G	
<a href="#">586</a>	933.4506	2797.3300	2797.3361	-2.20	0	27	0.073	1	R.SGPFQIFRPDNFVFGQSGAGNNWAK.G	

## Proteins matching the same set of peptides:

[IPI00338039](#) Mass: 50274 Score: 96 Queries matched: 10  
Tax\_Id=10090 Gene\_Symbol=Tubb2a Tubulin beta-2A chain

19. [IPI00462140](#) Mass: 61379 Score: 94 Queries matched: 3 emPAI: 0.05  
Tax\_Id=10090 Gene\_Symbol=Krt77 Keratin, type II cytoskeletal 1b

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"/>	<a href="#">141</a>	532.2756	1062.5366	1062.5709	-32.26	0	6	21	1	R.AQYEIIAQK.S
<input checked="" type="checkbox"/>	<a href="#">367</a>	738.3973	1474.7800	1474.7780	1.40	0	(61)	5e-005	1	R.FLEQQNQVLQTK.W
<input checked="" type="checkbox"/>	<a href="#">368</a>	738.3973	1474.7800	1474.7780	1.40	0	63	3e-005	1	R.FLEQQNQVLQTK.W

20. [IPI00420970](#) Mass: 55340 Score: 94 Queries matched: 3 emPAI: 0.06  
Tax\_Id=10090 Gene\_Symbol=Krt74 Keratin, type II cytoskeletal 74

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

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">111</a>	519.2660	1036.5174	1036.5189	-1.41	0	5	24	5	R.YEVEITQR.T
<a href="#">367</a>	738.3973	1474.7800	1474.7780	1.40	0	(61)	5e-005	1	R.FLEQQNQVLQTK.W
<a href="#">368</a>	738.3973	1474.7800	1474.7780	1.40	0	63	3e-005	1	R.FLEQQNQVLQTK.W

21. [IPI00131209](#) Mass: 52420 Score: 94 Queries matched: 4 emPAI: 0.06  
Tax\_Id=10090 Gene\_Symbol=Krt16 Keratin intermediate filament 16a

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

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
<a href="#">154</a>	545.7697	1089.5248	1089.5237	1.07	0	(46)	0.002	1	K.VTMQNLNDR.L
<a href="#">155</a>	545.7701	1089.5256	1089.5237	1.80	0	64	3.4e-005	1	K.VTMQNLNDR.L
<a href="#">156</a>	545.7711	1089.5276	1089.5237	3.64	0	(62)	5.4e-005	1	K.VTMQNLNDR.L
<a href="#">227</a>	577.7924	1153.5702	1153.5220	41.9	0	7	13	2	R.MSSILAGGSCR.A + Oxidation (M)

## Proteins matching the same set of peptides:

[IPI00227140](#) Mass: 53176 Score: 94 Queries matched: 4

Tax\_Id=10090 Gene\_Symbol=Krt14 Keratin, type I cytoskeletal 14

[IPI00874585](#) Mass: 51973 Score: 94 Queries matched: 4

Tax\_Id=10090 Gene\_Symbol=Krt16 Keratin, type I cytoskeletal 16

22. [IPI00348328](#) Score: 90 Queries matched: 3  
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	
<a href="#">222</a>	577.2903	1152.5660	1152.5234	37.0	0	2	44	4	R.EYGGQVTMPR.G + Oxidation (M)	
<input checked="" type="checkbox"/>	<a href="#">336</a>	692.3635	1382.7124	1382.6830	21.3	0	63	3.1e-005	1	R.SLNNQFASFDK.V
<input checked="" type="checkbox"/>	<a href="#">337</a>	692.3693	1382.7240	1382.6830	29.7	0	(58)	0.00011	1	R.SLNNQFASFDK.V

23. [IPI00322209](#) Mass: 54531 Score: 90 Queries matched: 2 emPAI: 0.06  
Tax\_Id=10090 Gene\_Symbol=Krt8 Keratin, type II cytoskeletal 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
<a href="#">336</a>	692.3635	1382.7124	1382.7194	-5.02	1	63	3.1e-005	1	K.SLNNKQFASFDK.V
<a href="#">337</a>	692.3693	1382.7240	1382.7194	3.37	1	(58)	0.00011	1	K.SLNNKQFASFDK.V

24. [IPI00119063](#) Mass: 523342 Score: 88 Queries matched: 4 emPAI: 0.01  
Tax\_Id=10090 Gene\_Symbol=Lrp1 Prolow-density lipoprotein receptor-related 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"/>	<a href="#">91</a>	479.2393	956.4640	956.4676	-3.67	0	8	9.8	1	R.AGTSPGTPNR.I
<a href="#">128</a>	530.2996	1058.5846	1058.5356	46.3	0	2	55	8	R.EDVVTNGIGR.V	
<a href="#">258</a>	626.3500	1250.6854	1250.7347	-39.36	0	0	51	2	R.GVAGAPPTVTLR.S	
<input checked="" type="checkbox"/>	<a href="#">306</a>	665.3570	1328.6994	1328.6976	1.38	0	88	1.2e-007	1	K.GPVGLAIDFPESK.L

25. [IPI00121038](#) Mass: 368613 Score: 78 Queries matched: 1 emPAI: 0.01  
Tax\_Id=10090 Gene\_Symbol=Vcan Isoform V0 of Versican core 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"/>	<a href="#">474</a>	656.6594	1966.9564	1966.9670	-5.42	0	78	9.3e-007	1	R.VSVPTHPDDVGDASLTMVK.L

## Proteins matching the same set of peptides:

[IPI00230441](#) Mass: 264594 Score: 78 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Vcan Isoform V1 of Versican core protein  
[IPI00469172](#) Mass: 76209 Score: 78 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Vcan versican core protein isoform 4  
[IPI00469565](#) Mass: 180325 Score: 78 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Vcan versican core protein isoform 3  
[IPI00473932](#) Mass: 41850 Score: 78 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Vcan versican core protein isoform 5  
[IPI00656277](#) Mass: 41758 Score: 78 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Vcan Versican  
[IPI00875672](#) Mass: 368720 Score: 78 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Vcan versican core protein isoform 1

26. [IPI00122048](#) Mass: 113045 Score: 76 Queries matched: 2 emPAI: 0.03  
 Tax\_Id=10090 Gene\_Symbol=Atpla3 Sodium/potassium-transporting ATPase subunit alpha-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"/> <a href="#">253</a>	618.8558	1235.6970	1235.6986	-1.26	0	(43)	0.0019	1	R.LNIPVSVQVNP.R
<input checked="" type="checkbox"/> <a href="#">254</a>	618.8574	1235.7002	1235.6986	1.33	0	64	1.7e-005	1	R.LNIPVSVQVNP.R

Proteins matching the same set of peptides:

[IPI00420569](#) Mass: 113457 Score: 76 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Atpla2 Sodium/potassium-transporting ATPase subunit alpha-2  
[IPI00752412](#) Mass: 117548 Score: 76 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Atpla3 ATPase, Na+/K+ transporting, alpha 3 polypeptide, isoform CRA\_c  
[IPI00762871](#) Mass: 104717 Score: 76 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Atpla2 Uncharacterized protein

27. [IPI00120793](#) Mass: 28131 Score: 70 Queries matched: 6 emPAI: 0.25  
 Tax\_Id=10090 Gene\_Symbol=Prnp Major prion 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"/> <a href="#">150</a>	544.7386	1087.4626	1087.4570	5.17	0	40	0.0024	1	K.ESQAYYDGR.R
<input checked="" type="checkbox"/> <a href="#">186</a>	570.2647	1138.5148	1138.5142	0.54	0	56	0.00012	1	K.GENFTETDVK.M
<input checked="" type="checkbox"/> <a href="#">187</a>	570.2665	1138.5184	1138.5142	3.70	0	(32)	0.032	1	K.GENFTETDVK.M
<input checked="" type="checkbox"/> <a href="#">255</a>	622.7899	1243.5652	1243.5581	5.72	1	(13)	2.6	1	K.ESQAYYDGR.R
<input checked="" type="checkbox"/> <a href="#">256</a>	622.7908	1243.5670	1243.5581	7.17	1	24	0.2	1	K.ESQAYYDGR.R
<input checked="" type="checkbox"/> <a href="#">257</a>	622.7933	1243.5720	1243.5581	11.2	1	(7)	12	1	K.ESQAYYDGR.R

28. [IPI00136402](#) Mass: 111559 Score: 55 Queries matched: 1 emPAI: 0.03  
 Tax\_Id=10090 Gene\_Symbol=Dlga1 Isoform 1 of Disks large-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"/> <a href="#">370</a>	757.4081	1512.8016	1512.8035	-1.24	0	55	0.00018	1	R.SLDSLDPAGLLTSPK.F

Proteins matching the same set of peptides:

[IPI00473783](#) Mass: 106407 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Dlga1 Uncharacterized protein  
[IPI00648461](#) Mass: 60639 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Dlga1 Isoform 5 of Disks large-associated protein 1  
[IPI00649710](#) Mass: 110576 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Dlga1 Isoform 2 of Disks large-associated protein 1  
[IPI00650032](#) Mass: 108461 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Dlga1 Isoform 3 of Disks large-associated protein 1  
[IPI00653701](#) Mass: 71554 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Dlga1 disks large-associated protein 1 isoform 4  
[IPI00918030](#) Mass: 76735 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Dlga1 disks large-associated protein 1 isoform 3  
[IPI00918186](#) Mass: 74905 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Dlga1 Uncharacterized protein  
[IPI00918416](#) Mass: 77718 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Dlga1 Uncharacterized protein

29. [IPI00222548](#) Mass: 17633 Score: 55 Queries matched: 1 emPAI: 0.19  
 Tax\_Id=10090 Gene\_Symbol=Rpl29;Gm13841;Gm8210 60S ribosomal protein L29  
 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"/> <a href="#">112</a>	520.2804	1038.5462	1038.5458	0.45	0	55	0.00021	1	K.AQASAPQAPK.G

Proteins matching the same set of peptides:

[IPI00461500](#) Mass: 17603 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Rpl29-ps2 Uncharacterized protein  
[IPI00626884](#) Mass: 17663 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Gm6344 Uncharacterized protein  
[IPI00762791](#) Mass: 17693 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Gm10709 Uncharacterized protein  
[IPI00849210](#) Mass: 17678 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Gm5561 similar to ribosomal protein  
[IPI00849550](#) Mass: 28730 Score: 55 Queries matched: 1

Tax\_Id=10090 Gene\_Symbol=Gm12508 similar to ribosomal protein  
[IPI00850168](#) Mass: 22613 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Gm5218 similar to ribosomal protein  
[IPI00874437](#) Mass: 17127 Score: 55 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=- Uncharacterized protein

30. [IPI00124499](#) Mass: 57802 Score: 50 Queries matched: 2 emPAI: 0.06  
 Tax\_Id=10090 Gene\_Symbol=Krt79 Keratin, type II cytoskeletal 79

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

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss Score	Expect	Rank	Peptide	
<a href="#">141</a>	532.2756	1062.5366	1062.5709	-32.26	0	6	21	1	K.AQYELIAQK.S
<input checked="" type="checkbox"/> <a href="#">307</a>	665.3589	1328.7032	1328.7187	-11.64	0	50	0.00068	1	R.NLDELIIAEVK.A

31. [IPI00113410](#) Mass: 38586 Score: 50 Queries matched: 1 emPAI: 0.09  
 Tax\_Id=10090 Gene\_Symbol=Hapln2 Hyaluronan and proteoglycan link 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"/> <a href="#">342</a>	696.3721	1390.7296	1390.7245	3.70	0	50	0.00072	1	R.LEGVVFPYQPSR.G

32. [IPI00223714](#) Mass: 21964 Score: 47 Queries matched: 1 emPAI: 0.15  
 Tax\_Id=10090 Gene\_Symbol=Hist1hle Histone H1.4

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"/> <a href="#">250</a>	614.8409	1227.6672	1227.6711	-3.11	0	47	0.0013	1	K.TSGPPVSELITK.A

33. [IPI00136703](#) Mass: 42971 Score: 46 Queries matched: 2 emPAI: 0.08  
 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"/> <a href="#">299</a>	652.3648	1302.7150	1302.7183	-2.51	0	(36)	0.016	1	K.VLTPELYAELR.A
<input checked="" type="checkbox"/> <a href="#">300</a>	652.3654	1302.7162	1302.7183	-1.59	0	46	0.0016	1	K.VLTPELYAELR.A

34. [IPI00229598](#) Mass: 45025 Score: 40 Queries matched: 1 emPAI: 0.07  
 Tax\_Id=10090 Gene\_Symbol=Cnp Isoform CNPI of 2',3'-cyclic-nucleotide 3'-phosphodiesterase

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"/> <a href="#">260</a>	628.8149	1255.6152	1255.6157	-0.34	0	40	0.0062	1	K.GGSQGEAVGELPR.G

Proteins matching the same set of peptides:

[IPI00319602](#) Mass: 47493 Score: 40 Queries matched: 1  
 Tax\_Id=10090 Gene\_Symbol=Cnp Isoform CNPII of 2',3'-cyclic-nucleotide 3'-phosphodiesterase

35. [IPI00123176](#) Mass: 36804 Score: 39 Queries matched: 2 emPAI: 0.09  
 Tax\_Id=10090 Gene\_Symbol=Gm6316 Glyceraldehyde-3-phosphate dehydrogenase

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"/> <a href="#">332</a>	685.3768	1368.7390	1368.7361	2.15	0	39	0.0067	1	R.GAAQNIIPASTGAAK.A
<input checked="" type="checkbox"/> <a href="#">333</a>	685.3788	1368.7430	1368.7361	5.08	0	(33)	0.031	1	R.GAAQNIIPASTGAAK.A

Proteins matching the same set of peptides:

[IPI00135284](#) Mass: 36092 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Gm16374 Glyceraldehyde-3-phosphate dehydrogenase  
[IPI00229201](#) Mass: 16676 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=3000002C10Rik Putative uncharacterized protein  
[IPI00271869](#) Mass: 36293 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00273646](#) Mass: 36072 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Gapdh;LOC100042025 Glyceraldehyde-3-phosphate dehydrogenase  
[IPI00622795](#) Mass: 36074 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00625893](#) Mass: 36205 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Gm6981 Glyceraldehyde-3-phosphate dehydrogenase  
[IPI00752289](#) Mass: 36308 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=Gm10290 Glyceraldehyde-3-phosphate dehydrogenase  
[IPI00848801](#) Mass: 36100 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00849045](#) Mass: 36072 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00850337](#) Mass: 44633 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=LOC100048117 similar to Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) isoform 1  
[IPI00850377](#) Mass: 35975 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00850779](#) Mass: 36076 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein  
[IPI00874682](#) Mass: 36038 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein

IPI00874964 Mass: 36512 Score: 39 Queries matched: 2  
 Tax\_Id=10090 Gene\_Symbol=- 36 kDa protein

Peptide matches not assigned to protein hits: (no details means no match)

Query	Observed	Mr(expt)	Mr(calc)	ppm	Miss	Score	Expect	Rank	Peptide
235	582.7992	1163.5838	1163.5757	6.99	0	34	0.036	1	QMIGEFLGNR
157	551.8046	1101.5946	1101.5778	15.3	1	28	0.13	1	EEEGRITIR
48	428.7658	855.5170	855.4814	41.7	0	26	0.14	1	LGAETLPR
30	408.2383	814.4620	814.4661	-4.97	1	24	0.43	1	GTVAPSKR
34	408.2388	814.4630	814.4661	-3.74	1	24	0.45	1	GTVAPSKR
461	912.9987	1823.9828	1823.9782	2.57	0	23	0.19	1	VGINYQPPTVVPGDLAK
53	435.7717	869.5288	869.5446	-18.17	1	20	0.39	1	ERLLAIR
344	699.8972	1397.7798	1397.8493	-49.71	1	20	0.5	1	LNKLEDIVLIK
274	634.3542	1266.6938	1266.7084	-11.52	1	19	0.6	1	YLYGIRVEVR
47	428.7636	855.5126	855.5542	-48.53	0	19	0.62	1	TLAVLALR
276	634.3552	1266.6958	1266.7084	-9.94	1	19	0.68	1	YLYGIRVEVR
437	851.4508	1700.8870	1700.8985	-6.74	0	18	0.89	1	AVFVDLEPTVIDEVR
38	408.2404	814.4662	814.4661	0.19	1	17	1.9	1	GTVAPSKR
275	634.3550	1266.6954	1266.7084	-10.25	1	17	0.95	1	YLYGIRVEVR
172	557.7983	1113.5820	1113.5891	-6.30	1	17	1.6	1	SSPLRGPQTSR
32	408.2387	814.4628	814.4661	-3.99	1	17	2.1	1	GTVAPSKR
246	595.8132	1189.6118	1189.6489	-31.12	1	17	2	1	KTNIIDSMRLR
345	699.8976	1397.7806	1397.8493	-49.14	1	16	1.2	1	LNKLEDIVLIK
35	408.2389	814.4632	814.4661	-3.50	1	16	2.6	1	GTVAPSKR
170	557.7947	1113.5748	1113.5891	-12.77	1	16	2.1	1	SSPLRGPQTSR
171	557.7957	1113.5768	1113.5891	-10.97	1	16	2.2	1	SSPLRGPQTSR
228	578.8077	1155.6008	1155.5897	9.62	1	16	1.9	1	SSWTGHGLRR
41	413.6995	825.3844	825.4093	-30.13	0	15	1.3	1	HQDVATR
140	531.2813	1060.5480	1060.5665	-17.41	0	15	2.6	1	YLLASNAPGR
36	408.2390	814.4634	814.4661	-3.23	1	15	3.1	1	KISPNTR
31	408.2386	814.4626	814.4661	-4.23	1	15	3.3	1	GTVAPSKR
29	408.2381	814.4616	814.4661	-5.44	1	15	3	1	KISPNTR
12	602.3666	601.3593	601.3435	26.3	0	15	5.6	1	SSPALK
19	343.7292	685.4438	685.4235	29.7	1	15	1.8	1	KGAAALR
37	408.2393	814.4640	814.4661	-2.49	1	15	3.3	1	KISPNTR
45	423.2270	844.4394	844.4515	-14.24	1	15	3.9	1	AIRENSR
180	565.3195	1128.6244	1128.6754	-45.16	0	14	2.7	1	QLITDLVISK
225	577.2920	1152.5694	1152.6251	-48.29	1	14	2.6	1	EGVHAGTINKK
227	577.7924	1153.5702	1153.5840	-11.89	1	14	2.7	1	KLHDSNDGLR
40	412.7514	823.4882	823.4817	7.98	0	14	1.1	1	RPWLPR
138	531.2780	1060.5414	1060.5665	-23.63	0	14	3.6	1	YLLASNAPGR
39	412.7500	823.4854	823.5028	-21.08	1	14	1	1	VPSRLPR
223	577.2915	1152.5684	1152.6251	-49.16	1	14	3	1	EGVHAGTINKK
33	408.2388	814.4630	814.4661	-3.74	1	14	4.6	1	GTVAPSKR
148	539.2706	1076.5266	1076.5098	15.6	0	13	3.7	1	SSLDGESSGIR
143	533.2622	1064.5098	1064.5138	-3.72	0	13	3.3	1	AQYEDIAQK
61	450.7198	899.4250	899.4461	-23.38	1	13	2.3	1	REPEDVR
111	519.2660	1036.5174	1036.5011	15.7	0	13	4.2	1	VLPYMNRR + Oxidation (M)
28	408.2372	814.4598	814.4661	-7.67	1	12	5.7	1	GTVAPSKR
195	572.8080	1143.6014	1143.6546	-46.49	1	12	5.2	1	QAMLRQLLR + Oxidation (M)
104	508.2908	1014.5670	1014.5709	-3.83	0	12	5.1	1	DVNAAIATIK
229	578.8155	1155.6164	1155.6611	-38.68	1	12	4.4	1	DAVSSSLPLAKR
94	487.3005	972.5864	972.5869	-0.46	0	12	2.7	1	VPGHLPVVR
52	435.7706	869.5266	869.4858	46.9	0	12	2.8	1	VSGVEVPLA
285	645.8337	1289.6528	1289.6054	36.8	1	11	5.8	1	GGDYWRFHPR
159	556.8300	1111.6454	1111.6713	-23.25	1	11	2.6	1	LRALLELR
139	531.2795	1060.5444	1060.5665	-20.80	0	11	6.9	1	YLLASNAPGR
95	491.7284	981.4422	981.4879	-46.56	0	11	3.3	1	EPAPQQQAGK
239	595.3087	1188.6028	1188.6285	-21.58	1	11	7.2	1	SPTIRDMVVR + Oxidation (M)
248	606.8034	1211.5922	1211.6371	-37.01	1	10	5.8	1	GSRGDGLQGPR
114	520.7663	1039.5180	1039.5062	11.4	1	10	5.8	1	KFPFCWR
173	558.2787	1114.5428	1114.5731	-27.11	1	10	7	1	KSASSHIETR
179	565.3195	1128.6244	1128.6502	-22.85	1	10	7.4	1	KLELEATVAR
73	464.7799	927.5452	927.5501	-5.27	1	10	6.1	1	LNLTSPPKR
82	464.7838	927.5530	927.5138	42.3	1	10	5.6	1	DVPVQSKR
358	728.8514	1455.6882	1455.7027	-9.96	0	10	6	1	DAMELKPNGGAEPK
57	444.2293	886.4440	886.4695	-28.67	1	10	10	1	KVMGPSRR + Oxidation (M)
108	517.2664	1032.5182	1032.4724	44.5	0	10	9.5	1	VLDEEGSER
27	399.7258	797.4370	797.4759	-48.75	1	9	6	1	IPVKGER
152	545.2901	1088.5656	1088.5397	23.9	0	9	11	1	MGSADRPALR + Oxidation (M)
280	643.3559	1284.6972	1284.7190	-16.91	1	9	7.9	1	NQKWLILNK
153	545.2922	1088.5698	1088.5978	-25.71	1	9	11	1	KDFTVNLPR
240	595.3089	1188.6032	1188.5887	12.2	0	9	10	1	FVPPQTSSGRR
142	532.2774	1062.5402	1062.5128	25.9	1	9	11	1	KMEEQQVR + Oxidation (M)
81	464.7831	927.5516	927.5250	28.7	1	9	6.7	1	QSPLATRR
273	631.8077	1261.6008	1261.5826	14.4	0	9	9	1	EALEVDWSGEK
446	885.9580	1769.9014	1769.9271	-14.51	1	9	8.1	1	ELEAERQIVASQLER
243	595.3099	1188.6052	1188.6285	-19.56	1	9	11	1	SPTIRDMVVR + Oxidation (M)
76	464.7814	927.5482	927.5501	-2.02	1	9	7.7	1	LKAESKPR
105	514.8010	1027.5874	1027.5597	27.0	1	9	8.2	1	MLSKAVSHR
85	470.7675	939.5204	939.5515	-33.03	1	9	7.2	1	LRPGWRR

137	530.7860	1059.5574	1059.5924	-32.98	0	9	15	1	TASLAEELISR
241	595.3092	1188.6038	1188.5887	12.7	0	9	11	1	FVPPQTSSGNR
279	643.3487	1284.6828	1284.6357	36.7	1	8	9.9	1	GRAGVCDPALNR
113	520.7655	1039.5164	1039.5121	4.23	0	8	8.9	1	SGMLS YGLGR
79	464.7817	927.5488	927.5501	-1.38	1	8	8.5	1	LKAESKPR
169	557.7910	1113.5674	1113.6005	-29.66	1	8	11	1	MTAFFFKTLR
465	948.9885	1895.9624	1895.9516	5.71	0	8	9.3	1	TITTFEQEAELEELAK
182	565.3201	1128.6256	1128.6754	-44.09	0	8	11	1	QLITDLVISK
226	577.2932	1152.5718	1152.6251	-46.19	1	8	12	1	EGKLEHTLAR
58	449.7471	897.4796	897.4556	26.8	0	8	11	1	DAETPLPR
181	565.3198	1128.6250	1128.6503	-22.33	0	8	12	1	TKPVLSSLER
43	415.2015	828.3884	828.4276	-47.26	0	8	6.5	1	IHGSMRLR + Oxidation (M)
97	496.2269	990.4392	990.4883	-49.50	0	8	8.1	1	AFSSHSSLR
445	885.9568	1769.8990	1769.8995	-0.27	1	8	11	1	LQFRD VNGEMVAVHR
80	464.7817	927.5488	927.5138	37.8	1	8	10	1	DVPVQSKR
77	464.7814	927.5482	927.5138	37.2	1	8	10	1	DVPVQSKR
330	672.8422	1343.6698	1343.6681	1.32	1	7	12	1	AQGDEQEAQLKK
222	577.2903	1152.5660	1152.5420	20.9	0	7	13	1	AGGLAAMPYMR + Oxidation (M)
100	506.2394	1010.4642	1010.4781	-13.71	1	7	10	1	DYDRSLSR
74	464.7807	927.5468	927.5138	35.7	1	7	12	1	DVPVQSKR
338	692.3942	1382.7738	1382.7630	7.86	1	7	10	1	QSASPLRLQLDR
99	500.2558	998.4970	998.4491	48.0	0	7	14	1	TMSNFLDR + Oxidation (M)
283	645.8325	1289.6504	1289.6054	34.9	1	7	17	1	GGDYWRFHPR
42	415.2015	828.3884	828.4276	-47.26	0	7	8.7	1	IHGSMRLR + Oxidation (M)
64	450.7218	899.4290	899.4324	-3.68	0	7	11	1	FMFNGLR + Oxidation (M)
244	595.3101	1188.6056	1188.5887	14.2	0	7	18	1	FVPPQTSSGNR
103	506.2436	1010.4726	1010.5145	-41.43	0	7	12	1	EGTQAPGVPR
96	496.2260	990.4374	990.4487	-11.39	1	7	10	1	ASMSRHRM + Oxidation (M)
438	852.4293	1702.8440	1702.8989	-32.20	0	6	15	1	VLSTSTDLAAVADALK
286	645.8344	1289.6542	1289.6054	37.9	1	6	18	1	GGDYWRFHPR
59	450.2231	898.4316	898.4695	-42.09	0	6	11	1	MSVPPNR
196	572.8097	1143.6048	1143.6546	-43.52	1	6	20	1	QAMLRQLLR + Oxidation (M)
192	572.8068	1143.5990	1143.6546	-48.59	1	6	20	1	QAMLRQLLR + Oxidation (M)
161	556.8326	1111.6506	1111.5985	46.9	1	6	8.1	1	SKSHPASLASK
151	545.2896	1088.5646	1088.5978	-30.49	1	6	22	1	KDFTVNLPR
98	499.2703	996.5260	996.5141	12.0	1	6	16	1	EGYFRAVR
184	565.3227	1128.6308	1128.6754	-39.49	0	6	17	1	QLITDLVISK
75	464.7812	927.5478	927.5138	36.7	1	6	14	1	DVPVQSKR
343	699.8953	1397.7760	1397.7990	-16.45	1	6	12	1	TGNDVLKALALGAR
78	464.7816	927.5486	927.5501	-1.59	1	6	14	1	LKAESKPR
242	595.3098	1188.6050	1188.6285	-19.71	1	6	22	1	AALKDVVACSR
124	529.2703	1056.5260	1056.5087	16.4	0	6	18	1	KPETGEDPGK
359	730.9042	1459.7938	1459.7453	33.3	1	6	15	1	VDILENRVMDTR
278	643.3486	1284.6826	1284.6357	36.5	1	6	19	1	GRAGVCDPALNR
232	581.3160	1160.6174	1160.6587	-35.53	1	6	25	1	TELSILRAMK
224	577.2915	1152.5684	1152.5420	23.0	0	5	21	1	MTLNTMTWR
282	645.8323	1289.6500	1289.6054	34.6	1	5	25	1	GGDYWRFHPR
277	636.8104	1271.6062	1271.6357	-23.17	0	5	17	1	LLDAESEDRPK
88	470.7690	939.5234	939.5515	-29.84	1	5	16	1	LRPGWRR
185	565.3278	1128.6410	1128.6251	14.1	1	5	21	1	AGLSDLELRR
55	441.2665	880.5184	880.5355	-19.36	1	5	9	1	SPRLRPR
168	556.8366	1111.6586	1111.6462	11.2	1	5	9.8	1	SPRISRPTAK
249	612.3348	1222.6550	1222.6346	16.7	0	5	22	1	LDGNAIFFOAK
284	645.8327	1289.6508	1289.6054	35.2	1	5	27	1	GGDYWRFHPR
462	612.9324	1835.7754	1835.7858	-5.70	1	5	6.7	1	DESLVSRAMEYMGW + Oxidation (M)
247	597.3036	1192.5926	1192.5724	17.0	1	5	28	1	KEGTEWSQTK
183	565.3204	1128.6262	1128.6503	-21.27	0	5	26	1	TKPVLSSLER
56	441.2668	880.5190	880.4879	35.4	1	5	9.6	1	GLDRHVK
115	523.7672	1045.5198	1045.5152	4.45	1	5	35	1	QEESARAK
160	556.8324	1111.6502	1111.5985	46.5	1	4	12	1	SKSHPASLASK
502	1073.0221	2144.0296	2144.0498	-9.39	1	4	18	1	KLQNSIQESTQNFDDHLK
84	470.7674	939.5202	939.5614	-43.77	1	4	20	1	NRLPIATR
90	475.7499	949.4852	949.5089	-24.87	1	4	32	1	LCMSLKAK
520	747.3844	2239.1314	2239.2259	-42.22	1	4	18	1	GAF TGLHSLKVLMLQNNQLR
54	435.7731	869.5316	869.5123	22.2	0	4	15	1	VSLWLR
163	556.8347	1111.6548	1111.6462	7.80	1	4	12	1	KPQLDTRVR
83	470.7668	939.5190	939.5515	-34.52	1	4	21	1	LRPGWRR
236	586.7966	1171.5786	1171.6271	-41.33	0	4	26	1	MNLPSPVISSK
67	450.7224	899.4302	899.4032	30.1	0	4	19	1	HSGCAVNR
365	735.9140	1469.8134	1469.7435	47.6	1	4	18	1	TTLLQEEYAKMK + Oxidation (M)
522	747.3883	2239.1431	2239.1346	3.80	1	4	18	1	VSQSGGTGHANPTFKLQTPQGK
281	645.8319	1289.6492	1289.6292	15.5	1	4	32	1	TKFEFWSYTK
109	517.2719	1032.5292	1032.5564	-26.28	0	4	35	1	VSQGSTVISR
467	650.9503	1949.8291	1949.9001	-36.40	0	4	9.3	1	EGGGTELVTMTSNTPER + Oxidation (M)
238	595.3069	1188.5992	1188.6285	-24.60	1	4	33	1	SPTIRDMVVR + Oxidation (M)
164	556.8352	1111.6558	1111.6462	8.70	1	4	14	1	KPQLDTRVR
44	422.2433	842.4720	842.4610	13.1	0	4	37	1	VAVEGNVR
178	561.2647	1120.5148	1120.5625	-42.53	1	3	32	1	GAFSNNERVK
251	616.8057	1231.5968	1231.5680	23.4	1	3	33	1	EENEAEKVER
258	626.3500	1250.6854	1250.6329	42.0	0	3	25	1	YLPTCLDTRLR
123	529.2694	1056.5242	1056.5352	-10.40	0	3	30	1	NGFVLHENK

427	552.5915	1654.7527	1654.7708	-10.97	1	3	20	1	MRGPCQLDFDTGAR
87	470.7683	939.5220	939.5250	-3.15	1	3	23	1	PRAVPSGTR
158	556.7419	1111.4692	1111.5121	-38.51	1	3	12	1	WKMEFDTR
503	1073.0231	2144.0316	2144.0233	3.89	0	3	25	1	KPDLENVSSEGGGTLNLDK
24	370.6898	739.3650	739.3357	39.7	0	3	23	1	MTMGLR + 2 Oxidation (M)
245	595.3107	1188.6068	1188.5631	36.8	0	3	42	1	LDMFQQMIPR + 2 Oxidation (M)
20	349.2049	696.3952	696.3629	46.5	0	3	18	1	MVIYR + Oxidation (M)
66	450.7223	899.4300	899.4726	-47.29	1	3	25	1	HFPSTRR
10	577.2819	576.2746	576.2867	-21.00	0	3	46	1	SSAQQK
455	897.9139	1793.8132	1793.7699	24.2	1	3	26	1	MSYLKTTMEDEESSK + Oxidation (M)
576	916.4275	2746.2607	2746.2996	-14.16	1	3	17	1	QAPPQYTFIGELNSMGIWYRMGR + 2 Oxidation (M)
62	450.7201	899.4256	899.4647	-43.42	0	3	24	1	SLQHMLR + Oxidation (M)
13	323.1536	644.2926	644.3242	-48.93	0	3	16	1	GAASPSR
86	470.7677	939.5208	939.5548	-36.18	1	3	28	1	MRKFRPR
89	470.7696	939.5246	939.5515	-28.56	1	3	25	1	LRPGWRR
166	556.8363	1111.6580	1111.6423	14.1	1	3	18	1	MKPKASLPPK + Oxidation (M)
17	325.1857	648.3568	648.3377	29.5	1	3	42	1	MAAGKR + Oxidation (M)
63	450.7214	899.4282	899.4647	-40.53	0	2	28	1	SLQHMLR + Oxidation (M)
357	728.3519	1454.6892	1454.7617	-49.78	1	2	34	1	VVSSTSLFESSGKK
68	450.7227	899.4308	899.4686	-41.92	1	2	30	1	GAAAGRGGGAR
60	450.7193	899.4240	899.4647	-45.20	0	2	26	1	LNTHLMR + Oxidation (M)
165	556.8359	1111.6572	1111.6713	-12.66	1	2	19	1	GVKALIQDIR
454	897.9121	1793.8096	1793.7699	22.2	1	2	28	1	MSYLKTTMEDEESSK + Oxidation (M)
101	506.2419	1010.4692	1010.4525	16.6	1	2	32	1	RMDMDTVK + Oxidation (M)
162	556.8341	1111.6536	1111.5986	49.6	1	2	21	1	QPLSGTPKER
532	762.0566	2283.1480	2283.2620	-49.94	1	2	29	1	EKSLVAQLAAQAQLQMTALR
65	450.7219	899.4292	899.4647	-39.42	0	2	31	1	SLQHMLR + Oxidation (M)
107	516.3027	1030.5908	1030.5593	30.6	0	2	42	1	LMTGAGNVLR
521	747.3854	2239.1344	2239.0625	32.1	1	2	32	1	VACSGGAPGAGGRGGAGGAAAAGAGAAGR
106	516.2996	1030.5846	1030.5407	42.7	1	2	47	1	ELDLTRER
9	575.3143	574.3070	574.2962	18.8	1	2	1.1e+002	1	KDLEA
252	618.2717	1234.5288	1234.5724	-35.29	1	2	24	1	ADTSQPSARMR + Oxidation (M)
430	838.3983	1674.7820	1674.8246	-25.43	1	2	41	1	ALDGLQREAMEELGK + Oxidation (M)
525	762.0536	2283.1390	2283.1894	-22.10	0	1	33	1	EEVIDFSKPFMSLGISIMIK
526	762.0540	2283.1402	2283.1190	9.26	1	1	33	1	KGTTTATATSTSTASTAVADAQK
480	688.3133	2061.9181	2061.9426	-11.89	1	1	26	1	SKGSQGTSPFFMSPSPDSR + Oxidation (M)
380	795.3489	1588.6832	1588.7515	-42.96	1	1	19	1	TPEVICERSQNK
479	688.3128	2061.9166	2061.9426	-12.61	1	1	25	1	SKGSQGTSPFFMSPSPDSR + Oxidation (M)
259	627.2626	1252.5106	1252.5587	-38.34	0	1	12	1	VWNYFSYMK + Oxidation (M)
8	562.3096	561.3023	561.3122	-17.64	0	1	84	1	TLGSGK
14	647.3585	646.3512	646.3438	11.4	0	1	93	1	LYSHK
530	762.0560	2283.1462	2283.1205	11.2	0	1	39	1	DWDPGLPIIDNLMQSIQSK
444	882.9548	1763.8950	1763.8889	3.46	1	1	54	1	NIPWRCVVIDEHR
537	767.0458	2298.1156	2298.1525	-16.07	1	1	39	1	MSLSLEVATYRTLLEAENS + Oxidation (M)
587	1414.1199	2826.2252	2826.3139	-31.38	1	1	16	1	HGRAGVPMQMLMLGFEVDYTVR + 3 Oxidation (M)
102	506.2426	1010.4706	1010.4855	-14.70	0	1	45	1	SCLEFSLR
26	396.7331	791.4516	791.4177	42.8	0	0	55	1	EFIGAQK
18	325.1862	648.3578	648.3629	-7.74	1	0	73	1	GLGMKK + Oxidation (M)
504	546.7143	2182.8281	2182.8329	-2.22	0	0	4.1	1	CFPCPDGCPQMGHYADK + Oxidation (M)
339	692.3972	1382.7798	1382.7154	46.6	1	0	45	1	KDPSQTSPLGTPR
1	369.8990	368.8917							
2	412.8516	411.8443							
3	429.1010	428.0937							
4	445.1302	444.1229							
7	460.2643	459.2570							
15	325.1771	648.3396							
16	325.1830	648.3514							
21	350.1520	698.2894							
22	360.7044	719.3942							
23	360.7065	719.3984							
25	396.7322	791.4498							
46	423.7246	845.4346							
110	519.1532	1036.2918							
122	528.3091	1054.6036							
237	588.3435	1174.6724							
287	648.3742	1294.7338							
340	692.8701	1383.7256							
341	692.8714	1383.7282							
356	720.3672	1438.7198							
366	736.4177	1470.8208							
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376	785.8436	1569.6726							
377	785.8450	1569.6754							
378	785.8463	1569.6780							
379	785.8502	1569.6858							
393	810.3764	1618.7382							
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### Search Parameters

Type of search : MS/MS Ion Search  
Enzyme : Trypsin  
Fixed modifications : Carbamidomethyl (C)  
Variable modifications : Oxidation (M)  
Mass values : Monoisotopic  
Protein Mass : Unrestricted  
Peptide Mass Tolerance :  $\pm 50$  ppm  
Fragment Mass Tolerance :  $\pm 0.2$  Da  
Max Missed Cleavages : 1  
Instrument type : ESI-QUAD-TOF  
Number of queries : 594

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