

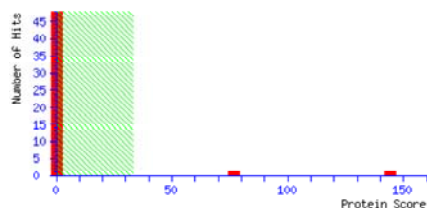


# Mascot Search Results

User : JPROS  
Email : pro@jbios.co.jp  
Search title : D:\JPROS\Q007\WT2\_8micro.wiff (sample number 1)  
MS data file : masA79.tmp  
Database : UP589\_M\_musculus\_M\_musculus\_20240121 (63447 sequences; 28585060 residues)  
Timestamp : 22 Jan 2024 at 08:19:34 GMT  
Protein hits : [P12960](#) Contactin-1 OS=Mus musculus OX=10090 GN=Cntn1 PE=1 SV=1  
[A0A0G2JGX4](#) Sodium/potassium-transporting ATPase subunit alpha OS=Mus musculus OX=10090 GN=Atpla3 PE=1 SV=1

## Mascot Score Histogram

Ions score is  $-10 \cdot \log(P)$ , where P is the probability that the observed match is a random event.  
Individual ions scores > 33 indicate identity or extensive homology ( $p < 0.05$ ).  
Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



## Peptide Summary Report

Format As Peptide Summary [Help](#)

Significance threshold  $p < 0.05$  Max. number of hits AUTO

Standard scoring ☐ MudPIT scoring ☒ Display non-significant matches ☒ Show sub-sets 0

Show pop-ups ☒ Suppress pop-ups ☐ Sort unassigned Decreasing Score Require bold red ☐

Select All Select None Search Selected ☐ Error tolerant

1. [P12960](#) Mass: 113317 Score: 144 Matches: 10(4) Sequences: 8(4) emPAI: 0.13  
Contactin-1 OS=Mus musculus OX=10090 GN=Cntn1 PE=1 SV=1  
☐ Check to include this hit in error tolerant search

Query	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Score	Expect	Rank	Unique	Peptide
<input checked="" type="checkbox"/> <a href="#">234</a>	452.7351	903.4556	903.4927	-0.0371	0	27	0.39	1	U	R.GPPGPPGGLR.I
<input checked="" type="checkbox"/> <a href="#">265</a>	489.2380	976.4615	976.4866	-0.0251	0	13		9	U	K.TILSDDWK.D
<input checked="" type="checkbox"/> <a href="#">309</a>	530.2311	1058.4477	1058.5357	-0.0880	0	(26)	0.46	1	U	K.VTVTNPDGTGR.Y
<input checked="" type="checkbox"/> <a href="#">310</a>	530.2429	1058.4712	1058.5357	-0.0644	0	34	0.071	1	U	K.VTVTNPDGTGR.Y
<input checked="" type="checkbox"/> <a href="#">312</a>	533.2375	1064.4604	1064.5138	-0.0534	0	43	0.0077	1	U	R.DGEYVVEVR.A
<input checked="" type="checkbox"/> <a href="#">370</a>	634.2772	1266.5399	1266.6204	-0.0805	0	48	0.0022	1	U	R.VQVTSQEYSAR.L
<input checked="" type="checkbox"/> <a href="#">411</a>	536.2655	1605.7745	1605.8766	-0.1021	0	(23)	0.57	1	U	R.TTKPYPADIVVQFK.D
<input checked="" type="checkbox"/> <a href="#">412</a>	536.2732	1605.7977	1605.8766	-0.0789	0	36	0.03	1	U	R.TTKPYPADIVVQFK.D
<input checked="" type="checkbox"/> <a href="#">430</a>	906.9426	1811.8707	1811.9377	-0.0671	0	73	5.8e-06	1	U	R.VVATNTLGTGEPSPNSR.I
<input checked="" type="checkbox"/> <a href="#">441</a>	704.3181	2109.9326	2110.0403	-0.1077	1	26	0.23	1	U	R.IKTDGAAPNVAPSDVGGGGTNR.E

2. [A0A0G2JGX4](#) Mass: 112916 Score: 76 Matches: 5(2) Sequences: 5(2) emPAI: 0.07  
Sodium/potassium-transporting ATPase subunit alpha OS=Mus musculus OX=10090 GN=Atpla3 PE=1 SV=1  
☐ Check to include this hit in error tolerant search

Query	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Score	Expect	Rank	Unique	Peptide
<input checked="" type="checkbox"/> <a href="#">331</a>	540.2351	1078.4557	1078.5329	-0.0772	0	19	2.2	5	U	K.CIELSSGSVK.L + Carbamidomethyl (C)
<input checked="" type="checkbox"/> <a href="#">334</a>	544.2639	1086.5133	1086.5856	-0.0723	0	27	0.35	1	U	K.LIIVEGQQR.Q + Carbamidomethyl (C)
<input checked="" type="checkbox"/> <a href="#">356</a>	618.8247	1235.6349	1235.6986	-0.0637	0	52	0.0099	1	U	R.LNIPVSQVNPR.D
<input checked="" type="checkbox"/> <a href="#">371</a>	634.8187	1267.6229	1267.7071	-0.0842	0	30	0.15	1	U	K.NMVPQQALVIR.E
<input checked="" type="checkbox"/> <a href="#">413</a>	810.3249	1618.6353	1618.7435	-0.1081	0	46	0.0027	1	U	K.VDNSSLTGESEPTQR.S

### Proteins matching the same set of peptides:

[Q6PIC6](#) Mass: 111620 Score: 76 Matches: 5(2) Sequences: 5(2)  
Sodium/potassium-transporting ATPase subunit alpha-3 OS=Mus musculus OX=10090 GN=Atpla3 PE=1 SV=1  
[Q8VCE0](#) Mass: 115894 Score: 76 Matches: 5(2) Sequences: 5(2)  
Sodium/potassium-transporting ATPase subunit alpha OS=Mus musculus OX=10090 GN=Atpla3 PE=1 SV=1

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

Query	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Score	Expect	Rank	Unique	Peptide
<input checked="" type="checkbox"/> <a href="#">331</a>	540.2351	1078.4557	1078.5012	-0.0455	1	29	0.22	1		LGGARMEAR + Carbamidomethyl (C); Oxidation
<input checked="" type="checkbox"/> <a href="#">307</a>	529.2393	1056.4641	1056.5564	-0.0922	0	25	0.51	1		ALVDNEQLR
<input checked="" type="checkbox"/> <a href="#">264</a>	487.2379	972.4612	972.5491	-0.0879	0	18		2.7	1	IEIETLQK
<input checked="" type="checkbox"/> <a href="#">72</a>	405.2413	808.4680	808.4304	0.0376	1	17	1.9	1		AHRGPGSK
<input checked="" type="checkbox"/> <a href="#">144</a>	421.7374	841.4603	841.4657	-0.0054	0	17	2.9	1		VAAIESPR

<input checked="" type="checkbox"/>	<a href="#">176</a>	428.7454	855.4763	855.4273	0.0490	0	17	3.1	1	ICLDQDHK
<input checked="" type="checkbox"/>	<a href="#">147</a>	421.7410	841.4674	841.3674	0.1001	0	16	3.1	1	<u>MSTLS</u> <u>C</u> K + Carbamidomethyl (C); Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">152</a>	423.2241	844.4336	844.4654	-0.0318	0	16	4.5	1	TAEVLANK
<input checked="" type="checkbox"/>	<a href="#">145</a>	421.7375	841.4605	841.3674	0.0932	0	16	3.3	1	<u>MSTLS</u> <u>C</u> K + Carbamidomethyl (C); Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">429</a>	897.8683	1793.7221	1793.9094	-0.1873	1	15	3.2	1	<u>MLSDGR</u> TIITFPNGTR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">178</a>	429.2000	856.3854	856.5130	-0.1276	0	15	5.6	1	NATGLILR
<input checked="" type="checkbox"/>	<a href="#">380</a>	429.2000	1284.5782	1284.5696	0.0085	0	14	6.2	1	LAEVVMDDYK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">300</a>	523.3000	1044.5854	1044.5208	0.0646	1	13	7.9	1	MPRMP <u>ELR</u> + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">177</a>	428.7487	855.4829	855.4450	0.0379	0	13	7	1	LSPETGPR
<input checked="" type="checkbox"/>	<a href="#">151</a>	423.2223	844.4301	844.4654	-0.0353	0	13	10	1	TAEVLANK
<input checked="" type="checkbox"/>	<a href="#">82</a>	409.1432	816.2718	816.4090	-0.1371	0	13	7.3	1	GQGALSER
<input checked="" type="checkbox"/>	<a href="#">398</a>	689.4000	1376.7854	1376.7300	0.0554	0	13	7.7	1	QVTIVGVIGSGDFAK
<input checked="" type="checkbox"/>	<a href="#">146</a>	421.7410	841.4674	841.4334	0.0340	0	12	7.4	1	VTWDPPK
<input checked="" type="checkbox"/>	<a href="#">296</a>	523.2626	1044.5107	1044.6179	-0.1072	0	12	10	1	ILAINSSSLK
<input checked="" type="checkbox"/>	<a href="#">201</a>	437.1964	872.3782	872.4352	-0.0569	1	12	12	1	ENNPSSGKK
<input checked="" type="checkbox"/>	<a href="#">350</a>	585.3301	1168.6457	1168.6789	-0.0332	1	12	9.4	1	ILGGRTSRPGR
<input checked="" type="checkbox"/>	<a href="#">169</a>	427.2045	852.3944	852.4705	-0.0761	0	12	8.3	1	LVQPGDPK
<input checked="" type="checkbox"/>	<a href="#">386</a>	441.9000	1322.6782	1322.6726	0.0055	1	11	12	1	LKCSPI <u>MEQ</u> FK
<input checked="" type="checkbox"/>	<a href="#">134</a>	419.6769	837.3392	837.3651	-0.0259	0	10	11	1	<u>MSTEAQ</u> R + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">83</a>	409.2073	816.4001	816.4593	-0.0592	0	10	14	1	EVESILK
<input checked="" type="checkbox"/>	<a href="#">284</a>	507.2000	1012.3854	1012.5124	-0.1270	0	10	13	1	NHGVVS <u>CL</u> K + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">246</a>	475.2882	948.5618	948.4811	0.0808	1	10	20	1	MLEGRTSR
<input checked="" type="checkbox"/>	<a href="#">71</a>	405.2340	808.4534	808.4304	0.0230	1	9	10	1	AHRGPGSK
<input checked="" type="checkbox"/>	<a href="#">245</a>	472.2602	942.5058	942.4494	0.0564	1	9	19	1	<u>CASFFR</u> R + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">95</a>	412.7307	823.4468	823.3317	0.1152	0	9	13	1	<u>VMCEGR</u> R + Carbamidomethyl (C); Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">297</a>	523.2663	1044.5180	1044.5815	-0.0636	1	9	23	1	VTSPPKTTSK
<input checked="" type="checkbox"/>	<a href="#">141</a>	421.2266	840.4386	840.3106	0.1280	0	9	14	1	<u>MSEEA</u> C + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">368</a>	421.2076	1260.6010	1260.6537	-0.0527	0	9	22	1	TVVTGIEMFHK
<input checked="" type="checkbox"/>	<a href="#">194</a>	434.7589	867.5032	867.5066	-0.0034	0	8	19	1	VPSILDPK
<input checked="" type="checkbox"/>	<a href="#">407</a>	523.3000	1566.8782	1566.7898	0.0884	1	8	18	1	QKLVPMP <u>PAEGP</u> <u>C</u> K + Carbamidomethyl (C); Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">388</a>	444.2000	1329.5782	1329.6057	-0.0275	1	8	21	1	DGMGMV <u>EYLR</u> K + 2 Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">311</a>	533.2319	1064.4492	1064.5722	-0.1230	1	8	24	1	AKLCSLGVMK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">260</a>	485.2691	968.5236	968.5040	0.0197	0	8	24	1	TVTHQDIR
<input checked="" type="checkbox"/>	<a href="#">279</a>	503.2861	1004.5577	1004.4749	0.0827	0	8	28	1	ENMFHVTK
<input checked="" type="checkbox"/>	<a href="#">438</a>	689.4000	2065.1782	2065.0561	0.1221	1	8	13	1	KACPLAVAAVAHGGNASCVK + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">361</a>	413.2000	1236.5782	1236.5768	0.0013	1	8	25	1	TSKEDTCVQAR
<input checked="" type="checkbox"/>	<a href="#">142</a>	421.2337	840.4528	840.4454	0.0074	0	8	18	1	VETTVHR
<input checked="" type="checkbox"/>	<a href="#">222</a>	448.7661	895.5176	895.3957	0.1219	0	8	25	1	TLESDCIK
<input checked="" type="checkbox"/>	<a href="#">288</a>	517.2246	1032.4346	1032.5274	-0.0928	0	8	32	1	TLLPSNCASK
<input checked="" type="checkbox"/>	<a href="#">442</a>	737.6595	2209.9566	2210.1405	-0.1839	1	7	17	1	ALSMRLNVTTEQPYFIEAK
<input checked="" type="checkbox"/>	<a href="#">91</a>	411.2403	820.4659	820.3814	0.0845	0	7	23	1	TDIEESK
<input checked="" type="checkbox"/>	<a href="#">220</a>	446.2000	890.3854	890.4433	-0.0578	1	7	36	1	MKHQFGK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">243</a>	468.2625	934.5105	934.4178	0.0927	0	7	36	1	EALNSCNK + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">227</a>	450.2492	898.4838	898.4331	0.0507	0	7	29	1	MNGLPSHK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">431</a>	461.5617	1842.2178	1842.0687	0.1491	1	7	1.6	1	LAISSIVRPSSIRQSTK
<input checked="" type="checkbox"/>	<a href="#">444</a>	737.6674	2209.9805	2210.0677	-0.0873	1	7	20	1	SWYSILGADPSANMSDLKQK
<input checked="" type="checkbox"/>	<a href="#">181</a>	432.2012	862.3878	862.4409	-0.0532	1	7	34	1	FGGGNQKR
<input checked="" type="checkbox"/>	<a href="#">231</a>	451.2465	900.4784	900.4777	0.0007	1	7	39	1	EAEAGRLR
<input checked="" type="checkbox"/>	<a href="#">167</a>	425.7588	849.5031	849.4266	0.0765	0	7	39	1	EVMTVQK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">330</a>	538.3074	1074.6002	1074.5379	0.0623	0	7	40	1	IMALDIDER
<input checked="" type="checkbox"/>	<a href="#">88</a>	411.2318	820.4490	820.4290	0.0200	1	7	26	1	STKAASEK
<input checked="" type="checkbox"/>	<a href="#">165</a>	425.7549	849.4953	849.4014	0.0938	0	7	41	1	TQMAEVR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">89</a>	411.2376	820.4607	820.4113	0.0494	1	7	27	1	GVKENMK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">97</a>	413.1000	824.1854	824.3712	-0.1857	0	6	5.9	1	QHCPGQR
<input checked="" type="checkbox"/>	<a href="#">55</a>	689.4000	688.3927	688.4119	-0.0192	0	6	6.1	1	GIVATTK
<input checked="" type="checkbox"/>	<a href="#">269</a>	491.7708	981.5270	981.5607	-0.0337	1	6	33	1	KSEQLLHK
<input checked="" type="checkbox"/>	<a href="#">446</a>	737.6686	2209.9839	2210.0967	-0.1129	0	6	24	1	LGEHNINVLGNEQFIDAAK
<input checked="" type="checkbox"/>	<a href="#">241</a>	457.2318	912.4490	912.5029	-0.0539	0	6	36	1	INTHTLSK
<input checked="" type="checkbox"/>	<a href="#">298</a>	523.2813	1044.5481	1044.6365	-0.0884	1	6	42	1	ATMKLKPLK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">200</a>	436.2538	870.4930	870.5650	-0.0720	1	6	38	1	KASLALIR
<input checked="" type="checkbox"/>	<a href="#">206</a>	441.7686	881.5227	881.4719	0.0508	1	6	34	1	EPAGPAGRK
<input checked="" type="checkbox"/>	<a href="#">233</a>	451.2601	900.5057	900.4851	0.0206	0	6	45	1	CSGVPLLR + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">327</a>	536.1674	1070.3202	1070.4954	-0.1752	0	6	13	1	EMVESAVVK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">301</a>	524.2661	1046.5177	1046.5430	-0.0253	1	6	46	1	LMAEAKQK
<input checked="" type="checkbox"/>	<a href="#">171</a>	427.2355	852.4564	852.3721	0.0843	0	6	31	1	IEADMMK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">257</a>	483.2652	964.5159	964.4648	0.0512	1	6	44	1	ESLDK <u>AMR</u> + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">391</a>	444.2000	1329.5782	1329.6062	-0.0280	0	6	38	1	TAEPSEAHSHHK
<input checked="" type="checkbox"/>	<a href="#">99</a>	413.1000	824.1854	824.3817	-0.1963	0	6	7	1	YSSGFHK
<input checked="" type="checkbox"/>	<a href="#">150</a>	423.2163	844.4181	844.4654	-0.0473	1	6	50	1	EIQEAKK
<input checked="" type="checkbox"/>	<a href="#">157</a>	425.7321	849.4497	849.4014	0.0482	0	6	51	1	TQMAEVR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">445</a>	737.6681	2209.9823	2210.0677	-0.0854	1	6	28	1	SWYSILGADPSANMSDLKQK
<input checked="" type="checkbox"/>	<a href="#">314</a>	536.1509	1070.2872	1070.4525	-0.1653	1	6	7.6	1	AFKCEE <u>CGK</u> + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">117</a>	415.3000	828.5854	828.4970	0.0885	1	5	40	1	IVWKAGR
<input checked="" type="checkbox"/>	<a href="#">285</a>	508.2342	1014.4539	1014.5458	-0.0919	1	5	51	1	ELAERELR
<input checked="" type="checkbox"/>	<a href="#">403</a>	507.2000	1518.5782	1518.6451	-0.0670	1	5	26	1	CLKVMGSYCPSCR + Carbamidomethyl (C); Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">170</a>	427.2317	852.4489	852.3396	0.1094	0	5	35	1	NNMTSDR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">324</a>	536.1594	1070.3042	1070.4339	-0.1296	0	5	12	1	DMENYEVR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">259</a>	485.2000	968.3854	968.5039	-0.1185	1	5	44	1	KTAPPADNR
<input checked="" type="checkbox"/>	<a href="#">282</a>	507.1811	1012.3476	1012.5189	-0.1713	0	5	32	1	GPLPNSLTGG
<input checked="" type="checkbox"/>	<a href="#">348</a>	583.3600	1164.7054	1164.6074	0.0981	1	5	51	1	TPVKCVPEHR
<input checked="" type="checkbox"/>	<a href="#">346</a>	583.3421	1164.6697	1164.6251	0.0446	0	5	54	1	ENPNPLINVR
<input checked="" type="checkbox"/>	<a href="#">262</a>	485.3036	968.5926	968.5477	0.0449	0	5	49	1	TCPAIPLVR
<input checked="" type="checkbox"/>	<a href="#">278</a>	503.2784	1004.5422	1004.4848	0.0573	0	5	61	1	SPTPTMEK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">266</a>	491.7611	981.5077	981.5607	-0.0530	0	5	50	1	TGGS�VAHIK
<input checked="" type="checkbox"/>	<a href="#">76</a>	406.2654	810.5162	810.4599	0.0562	0	5	26	1	QPTPIQK
<input checked="" type="checkbox"/>	<a href="#">337</a>	545.1360	1088.2575	1088.4267	-0.1692	0	5	2.8	1	TAFSDCTCK + 2 Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">450</a>	762.0170	2283.0293	2283.1973	-0.1681	1	5	32	1	LPSGVFSLEFQDFVKNCLIK
<input checked="" type="checkbox"/>	<a href="#">102</a>	413.2000	824.3854	824.3712	0.0143	0	4	36	1	QHCPGQR
<input checked="" type="checkbox"/>	<a href="#">184</a>	432.2280	862.4415	862.3603	0.0812	0	4	60	1	MGNSSSHK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">218</a>	445.1526	888.2907	888.4375	-0.1468	0	4	57	1	VPVCEAGSK
<input checked="" type="checkbox"/>	<a href="#">70</a>	405.2307	808.4468	808.4304	0.0165	1	4	33	1	AHRGPGSK
<input checked="" type="checkbox"/>	<a href="#">389</a>	444.2000	1329.5782	1329.6057	-0.0275	1	4	51	1	DGMGMV <u>EYLR</u> K + 2 Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">261</a>	485.2966	968.5786	968.5403	0.0383	1	4	54	1	TQLNKTHK
<input checked="" type="checkbox"/>	<a href="#">384</a>	439.2578	1314.7515	1314.6793	0.0722	1	4	52	1	GFQHDLSRLR
<input checked="" type="checkbox"/>	<a href="#">108</a>	414.1969	826.3793	826.4661	-0.0868	1	4	37	1	EQPGKLR
<input checked="" type="checkbox"/>	<a href="#">449</a>	761.7008	2282.0805	2282.1585	-0.0780	1	4	36	1	TLQSNGIIMYTRANPCMILK + Oxidation (M)

<input checked="" type="checkbox"/>	<a href="#">293</a>	522.1737	1042.3329	1042.4800	-0.1472	1	4	28	1	PCM <del>HQ</del> QOR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">271</a>	493.2958	984.5770	984.5604	0.0166	0	4	60	1	EIVEQVIR
<input checked="" type="checkbox"/>	<a href="#">434</a>	476.0163	1900.0362	1899.9876	0.0486	1	4	38	1	KPAEPKAMPDL <del>SGYQ</del> IR
<input checked="" type="checkbox"/>	<a href="#">336</a>	545.1330	1088.2514	1088.4267	-0.1753	0	4	2.2	1	TAFSDCTCK + 2 Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">387</a>	444.2000	1329.5782	1329.6062	-0.0280	0	4	56	1	TAEPSEAHSHHK
<input checked="" type="checkbox"/>	<a href="#">211</a>	444.2000	886.3854	886.4953	-0.1098	0	4	84	1	FFLVFSK
<input checked="" type="checkbox"/>	<a href="#">390</a>	444.2000	1329.5782	1329.6062	-0.0280	0	4	59	1	TAEPSEAHSHHK
<input checked="" type="checkbox"/>	<a href="#">247</a>	476.2425	950.4704	950.4379	0.0325	1	4	74	1	KDGE <del>MIDK</del> + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">325</a>	536.1652	1070.3159	1070.4678	-0.1519	0	4	21	1	WT <del>CFICGK</del> + 2 Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">294</a>	522.1738	1042.3331	1042.4502	-0.1171	0	4	33	1	CSYSQGSVGR
<input checked="" type="checkbox"/>	<a href="#">149</a>	423.2022	844.3898	844.4654	-0.0756	1	3	84	1	SPASKLDK
<input checked="" type="checkbox"/>	<a href="#">215</a>	444.2000	886.3854	886.5600	-0.1745	1	3	92	1	VL <del>RATLSK</del>
<input checked="" type="checkbox"/>	<a href="#">162</a>	425.7537	849.4928	849.3650	0.1278	0	3	84	1	EMEQAAR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">85</a>	411.2210	820.4275	820.4113	0.0162	0	3	57	1	IESLGMR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">404</a>	762.0279	1522.0412	1521.8780	0.1632	1	3	7	1	NPRYGNHV <del>VLLLK</del>
<input checked="" type="checkbox"/>	<a href="#">195</a>	434.7640	867.5135	867.5066	0.0070	0	3	63	1	VPSILDPK
<input checked="" type="checkbox"/>	<a href="#">193</a>	434.7471	867.4796	867.5066	-0.0269	0	3	64	1	VPSILDPK
<input checked="" type="checkbox"/>	<a href="#">299</a>	523.2909	1044.5672	1044.5637	0.0034	0	3	84	1	LEVN <del>NMQALK</del>
<input checked="" type="checkbox"/>	<a href="#">140</a>	420.2261	838.4376	838.3742	0.0634	0	3	55	1	EISSMEK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">69</a>	402.3000	802.5854	802.4297	0.1558	1	3	55	1	DNAKLSR
<input checked="" type="checkbox"/>	<a href="#">158</a>	425.7468	849.4790	849.3650	0.1140	0	3	90	1	EMEQAAR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">419</a>	440.5000	1757.9709	1757.8076	0.1633	1	3	56	1	VAA <del>YCEDTSKLMQAR</del> + Carbamidomethyl (C); Oxi
<input checked="" type="checkbox"/>	<a href="#">283</a>	507.1832	1012.3518	1012.5488	-0.1969	1	3	50	1	QHGKVVMAK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">198</a>	435.7529	869.4913	869.4719	0.0194	0	3	67	1	IIHASSSR
<input checked="" type="checkbox"/>	<a href="#">420</a>	441.7683	1763.0439	1762.9955	0.0484	1	3	41	1	GSVGP <del>AKVHLVRPGSFR</del>
<input checked="" type="checkbox"/>	<a href="#">113</a>	414.2167	826.4188	826.4661	-0.0473	1	3	50	1	EQPGKLR
<input checked="" type="checkbox"/>	<a href="#">329</a>	536.1778	1070.3411	1070.4889	-0.1478	0	3	35	1	CACSSIVFK + 2 Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">159</a>	425.7499	849.4852	849.4742	0.0110	1	3	96	1	TSLVMRK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">155</a>	424.2934	846.5722	846.4810	0.0912	1	3	86	1	EAIKATSK
<input checked="" type="checkbox"/>	<a href="#">237</a>	454.3623	906.7100	906.5174	0.1926	1	3	14	1	EAGKVYLK
<input checked="" type="checkbox"/>	<a href="#">189</a>	433.2393	864.4641	864.4011	0.0630	1	3	87	1	EENAMKK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">295</a>	523.2580	1044.5015	1044.6233	-0.1218	1	3	95	1	RIFPFPIR
<input checked="" type="checkbox"/>	<a href="#">249</a>	477.2479	952.4812	952.5454	-0.0642	1	3	81	1	ELSHLRAK
<input checked="" type="checkbox"/>	<a href="#">379</a>	429.2000	1284.5782	1284.7401	-0.1620	1	3	84	1	TLVSLKTAAPER
<input checked="" type="checkbox"/>	<a href="#">417</a>	421.1948	1680.7500	1680.9386	-0.1886	1	2	69	1	VVRVVFASCSGFVAIK
<input checked="" type="checkbox"/>	<a href="#">291</a>	522.1630	1042.3114	1042.4576	-0.1462	1	2	28	1	NCAKQVMSF + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">84</a>	411.2155	820.4165	820.3563	0.0602	0	2	69	1	TGGENTDK
<input checked="" type="checkbox"/>	<a href="#">120</a>	416.1000	830.1854	830.3527	-0.1673	0	2	8.6	1	CHCNLGK + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">114</a>	414.2798	826.5450	826.4522	0.0928	1	2	55	1	RPDARGR
<input checked="" type="checkbox"/>	<a href="#">226</a>	449.2995	896.5845	896.4716	0.1129	0	2	72	1	TPITHGSGK
<input checked="" type="checkbox"/>	<a href="#">317</a>	536.1532	1070.2919	1070.4274	-0.1354	0	2	18	1	QONQCF <del>SK</del> + 2 Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">232</a>	451.2566	900.4987	900.4341	0.0646	0	2	1.1e+02	1	GTFQFSSK
<input checked="" type="checkbox"/>	<a href="#">414</a>	409.1510	1632.5749	1632.7647	-0.1898	1	2	27	1	NPQC <del>SLCVGGLCRQR</del>
<input checked="" type="checkbox"/>	<a href="#">451</a>	767.0164	2298.0275	2298.0807	-0.0532	0	2	52	1	MDLLGMVVVDELHMLGDSHR + 2 Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">92</a>	411.2421	820.4697	820.4694	0.0002	0	2	75	1	ELGYVLK
<input checked="" type="checkbox"/>	<a href="#">315</a>	536.1523	1070.2901	1070.4889	-0.1988	1	2	19	1	SFKCEICGK + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">305</a>	526.3344	1050.6542	1050.4587	0.1955	0	2	84	1	CSMTGQPVR + Carbamidomethyl (C); Oxidation
<input checked="" type="checkbox"/>	<a href="#">268</a>	491.7683	981.5220	981.4412	0.0808	0	2	94	1	MGCWTQLK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">135</a>	419.7191	837.4237	837.4232	0.0005	0	2	84	1	LAQYESK
<input checked="" type="checkbox"/>	<a href="#">244</a>	468.2655	934.5165	934.4079	0.1086	0	2	1.2e+02	1	YAACHSAR + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">190</a>	433.2566	864.4987	864.4375	0.0612	1	2	1.1e+02	1	DVKAAMSK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">126</a>	419.1642	836.3138	836.5093	-0.1955	1	2	76	1	RPGVPRR
<input checked="" type="checkbox"/>	<a href="#">320</a>	536.1570	1070.2995	1070.4745	-0.1750	0	2	25	1	GLMM <del>MMGLR</del> + 2 Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">109</a>	414.1991	826.3837	826.4007	-0.0170	0	2	67	1	YAISMAR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">323</a>	536.1593	1070.3041	1070.4954	-0.1913	0	2	27	1	EMYESAVVK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">154</a>	424.2883	846.5620	846.5175	0.0446	1	2	1.2e+02	1	TKLLGSTK
<input checked="" type="checkbox"/>	<a href="#">359</a>	413.1000	1236.2782	1236.4322	-0.1540	0	2	2.1	1	SECEACNCHGK + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">399</a>	485.2000	1452.5782	1452.7469	-0.1687	0	2	77	1	QMGGLMLLN <del>YL</del> GK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">267</a>	491.7673	981.5200	981.5607	-0.0407	1	2	1e+02	1	KSEQLLHK
<input checked="" type="checkbox"/>	<a href="#">128</a>	419.2960	836.5774	836.5232	0.0542	1	2	67	1	PINLPKR
<input checked="" type="checkbox"/>	<a href="#">81</a>	408.3011	814.5876	814.4912	0.0964	0	1	87	1	QNSLILK
<input checked="" type="checkbox"/>	<a href="#">303</a>	526.3280	1050.6413	1050.5016	0.1398	0	1	95	1	VNQITMSDK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">137</a>	420.1953	838.3760	838.4185	-0.0425	1	1	81	1	KDSAFGSK
<input checked="" type="checkbox"/>	<a href="#">316</a>	536.1525	1070.2905	1070.4889	-0.1984	0	1	22	1	CACSSIVFK + 2 Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">274</a>	498.7814	995.5482	995.5148	0.0334	1	1	1.1e+02	1	NALPRG <del>SNPA</del>
<input checked="" type="checkbox"/>	<a href="#">138</a>	420.2059	838.3972	838.4218	-0.0246	1	1	83	1	KSMVSGSK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">110</a>	414.2001	826.3857	826.3565	0.0292	0	1	73	1	MESVMSK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">116</a>	415.3000	828.5854	828.4970	0.0885	1	1	1e+02	1	IVWKAGR
<input checked="" type="checkbox"/>	<a href="#">203</a>	441.3069	880.5992	880.4654	0.1338	0	1	78	1	VNSLS <del>SFK</del>
<input checked="" type="checkbox"/>	<a href="#">112</a>	414.2141	826.4136	826.5025	-0.0888	0	1	73	1	IQAVLQR
<input checked="" type="checkbox"/>	<a href="#">354</a>	615.3541	1228.6936	1228.6200	0.0735	1	1	1.1e+02	1	FGGSARS <del>GVYTK</del>
<input checked="" type="checkbox"/>	<a href="#">207</a>	441.7695	881.5244	881.5334	-0.0091	0	1	1e+02	1	TITHIVAK
<input checked="" type="checkbox"/>	<a href="#">369</a>	422.2422	1263.7047	1263.5877	0.1169	1	1	1.2e+02	1	AVKNSAESD <del>GMR</del>
<input checked="" type="checkbox"/>	<a href="#">377</a>	427.2482	1278.7229	1278.5914	0.1314	1	1	1.1e+02	1	KTVDPDGS <del>WMK</del> + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">132</a>	419.3037	836.5928	836.4062	0.1866	0	1	63	1	LMQNSTK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">130</a>	419.2996	836.5847	836.4062	0.1785	0	1	69	1	LMQNSTK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">292</a>	522.1659	1042.3172	1042.4576	-0.1404	1	1	43	1	NCAKQVMSF + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">164</a>	425.7549	849.4952	849.3902	0.1049	0	1	1.4e+02	1	TEGPAMTK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">139</a>	420.2230	838.4314	838.4120	0.0195	0	1	89	1	HMVAHTK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">224</a>	449.2386	896.4626	896.4028	0.0598	0	1	1.1e+02	1	QEYWGSK
<input checked="" type="checkbox"/>	<a href="#">240</a>	456.3199	910.6252	910.5851	0.0401	1	1	80	1	EIIAPKIK
<input checked="" type="checkbox"/>	<a href="#">187</a>	433.2317	864.4488	864.3977	0.0510	0	1	1.3e+02	1	FN <del>SPSE</del> GK
<input checked="" type="checkbox"/>	<a href="#">212</a>	444.2000	886.3854	886.4483	-0.0629	0	1	1.6e+02	1	AGPAMV <del>R</del>
<input checked="" type="checkbox"/>	<a href="#">435</a>	484.2404	1932.9323	1933.0706	-0.1383	1	1	96	1	GFLCEALAVLELT <del>LTKR</del> + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">230</a>	450.2616	898.5086	898.3644	0.1442	0	1	1.2e+02	1	FGMNF <del>G</del> GPP + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">328</a>	536.1703	1070.3260	1070.4889	-0.1628	1	1	46	1	SFKCEICGK + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">436</a>	485.2486	1936.9654	1936.8618	0.1035	1	1	94	1	SNHEKMST <del>TDLMENLR</del> + 2 Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">405</a>	511.5000	1531.4782	1531.6573	-0.1791	0	1	16	1	TCPEADVSE <del>PQNSR</del>
<input checked="" type="checkbox"/>	<a href="#">289</a>	517.2958	1032.5770	1032.5200	0.0570	1	1	1.5e+02	1	EAAGAASSGGKK
<input checked="" type="checkbox"/>	<a href="#">238</a>	455.2719	908.5292	908.5304	-0.0012	1	1	1.3e+02	1	RKFGAQPR
<input checked="" type="checkbox"/>	<a href="#">409</a>	527.6000	1579.7782	1579.8069	-0.0287	0	1	1.3e+02	1	APLPPTDQPPF <del>CIK</del> + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">101</a>	413.1058	824.1971	824.3712	-0.1740	0	1	29	1	QHCPGQR
<input checked="" type="checkbox"/>	<a href="#">378</a>	427.2519	1278.7338	1278.5874	0.1464	1	1	1.2e+02	1	EMKEGADISQR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">214</a>	444.2000	886.3854	886.4483	-0.0629	0	1	1.8e+02	1	AGPAMV <del>R</del>
<input checked="" type="checkbox"/>	<a href="#">161</a>	425.7514	849.4883	849.4014	0.0869	1	0	1.7e+02	1	EAEMRAK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">94</a>	411.2496	820.4847	820.4113	0.0734	0	0	1.1e+02	1	MGNTAIAK + Oxidation (M)

<input checked="" type="checkbox"/>	<a href="#">290</a>	520.3077	1038.6008	1038.4957	0.1051	0	0	1.4e+02	1	CW <sup>+</sup> IATNFK + Carbamidomethyl (C)
<input checked="" type="checkbox"/>	<a href="#">210</a>	444.2000	886.3854	886.4483	-0.0629	0	0	1.9e+02	1	AGPAWMVR
<input checked="" type="checkbox"/>	<a href="#">372</a>	425.1500	1272.4281	1272.6107	-0.1826	0	0	53	1	MLLHEWAMAR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">376</a>	427.2434	1278.7082	1278.6905	0.0177	1	0	1.3e+02	1	GARTSPGPAGRPR
<input checked="" type="checkbox"/>	<a href="#">422</a>	444.0335	1772.1047	1771.9138	0.1909	0	0	35	1	AQTPSAMTPSVITLPSR + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">105</a>	413.2414	824.4682	824.3698	0.0984	0	0	96	1	NSMVSGSK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">363</a>	415.3000	1242.8782	1242.6833	0.1949	1	0	35	1	QSYKLIAHQR
<input checked="" type="checkbox"/>	<a href="#">304</a>	526.3306	1050.6466	1050.5498	0.0967	0	0	1.3e+02	1	EPFVFASVR
<input checked="" type="checkbox"/>	<a href="#">302</a>	526.3265	1050.6384	1050.5532	0.0852	0	0	1.3e+02	1	TQVFGLMQK
<input checked="" type="checkbox"/>	<a href="#">67</a>	401.3000	800.5854	800.4214	0.1640	1	0	1.1e+02	1	KNPAMPK + Oxidation (M)
<input checked="" type="checkbox"/>	<a href="#">287</a>	515.1147	1028.2149	1028.3903	-0.1754	0	0	6.4	1	GSCE <sup>+</sup> SMGASK + Carbamidomethyl (C); Oxidatio
<input checked="" type="checkbox"/>	<a href="#">1</a>	400.0291	399.0218							
<input checked="" type="checkbox"/>	<a href="#">2</a>	401.1460	400.1388							
<input checked="" type="checkbox"/>	<a href="#">3</a>	401.3000	400.2927							
<input checked="" type="checkbox"/>	<a href="#">4</a>	401.3000	400.2927							
<input checked="" type="checkbox"/>	<a href="#">5</a>	402.3000	401.2927							
<input checked="" type="checkbox"/>	<a href="#">6</a>	406.2407	405.2335							
<input checked="" type="checkbox"/>	<a href="#">7</a>	407.2592	406.2519							
<input checked="" type="checkbox"/>	<a href="#">8</a>	413.1000	412.0927							
<input checked="" type="checkbox"/>	<a href="#">9</a>	413.1000	412.0927							
<input checked="" type="checkbox"/>	<a href="#">10</a>	413.1000	412.0927							
<input checked="" type="checkbox"/>	<a href="#">11</a>	413.1000	412.0927							
<input checked="" type="checkbox"/>	<a href="#">12</a>	413.2000	412.1927							
<input checked="" type="checkbox"/>	<a href="#">13</a>	415.3000	414.2927							
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<input checked="" type="checkbox"/>	<a href="#">15</a>	415.3000	414.2927							
<input checked="" type="checkbox"/>	<a href="#">16</a>	415.3000	414.2927							
<input checked="" type="checkbox"/>	<a href="#">17</a>	416.1000	415.0927							
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<input checked="" type="checkbox"/>	<a href="#">20</a>	425.2820	424.2747							
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<input checked="" type="checkbox"/>	<a href="#">22</a>	425.2919	424.2846							
<input checked="" type="checkbox"/>	<a href="#">23</a>	425.2937	424.2864							
<input checked="" type="checkbox"/>	<a href="#">24</a>	425.3694	424.3621							
<input checked="" type="checkbox"/>	<a href="#">25</a>	429.2000	428.1927							
<input checked="" type="checkbox"/>	<a href="#">26</a>	431.1000	430.0927							
<input checked="" type="checkbox"/>	<a href="#">27</a>	432.1000	431.0927							
<input checked="" type="checkbox"/>	<a href="#">28</a>	433.2285	432.2212							
<input checked="" type="checkbox"/>	<a href="#">29</a>	433.2312	432.2239							
<input checked="" type="checkbox"/>	<a href="#">30</a>	440.3408	439.3335							
<input checked="" type="checkbox"/>	<a href="#">31</a>	441.3572	440.3500							
<input checked="" type="checkbox"/>	<a href="#">32</a>	441.9000	440.8927							
<input checked="" type="checkbox"/>	<a href="#">33</a>	444.2000	443.1927							
<input checked="" type="checkbox"/>	<a href="#">34</a>	444.2000	443.1927							
<input checked="" type="checkbox"/>	<a href="#">35</a>	444.2000	443.1927							
<input checked="" type="checkbox"/>	<a href="#">36</a>	444.2000	443.1927							
<input checked="" type="checkbox"/>	<a href="#">37</a>	444.2000	443.1927							
<input checked="" type="checkbox"/>	<a href="#">38</a>	445.0600	444.0527							
<input checked="" type="checkbox"/>	<a href="#">39</a>	445.1000	444.0927							
<input checked="" type="checkbox"/>	<a href="#">40</a>	446.2000	445.1927							
<input checked="" type="checkbox"/>	<a href="#">41</a>	484.5000	483.4927							
<input checked="" type="checkbox"/>	<a href="#">42</a>	485.2000	484.1927							
<input checked="" type="checkbox"/>	<a href="#">43</a>	485.3605	484.3532							
<input checked="" type="checkbox"/>	<a href="#">44</a>	494.0137	493.0064							
<input checked="" type="checkbox"/>	<a href="#">45</a>	499.6000	498.5927							
<input checked="" type="checkbox"/>	<a href="#">46</a>	505.3251	504.3178							
<input checked="" type="checkbox"/>	<a href="#">47</a>	507.2000	506.1927							
<input checked="" type="checkbox"/>	<a href="#">48</a>	511.5000	510.4927							
<input checked="" type="checkbox"/>	<a href="#">49</a>	523.3000	522.2927							
<input checked="" type="checkbox"/>	<a href="#">50</a>	527.4897	526.4825							
<input checked="" type="checkbox"/>	<a href="#">51</a>	527.6000	526.5927							
<input checked="" type="checkbox"/>	<a href="#">52</a>	529.5000	528.4927							
<input checked="" type="checkbox"/>	<a href="#">53</a>	555.5000	554.4927							
<input checked="" type="checkbox"/>	<a href="#">54</a>	616.6000	615.5927							
<input checked="" type="checkbox"/>	<a href="#">56</a>	400.0386	798.0626							
<input checked="" type="checkbox"/>	<a href="#">57</a>	400.0432	798.0718							
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## Search Parameters

Type of search : MS/MS Ion Search  
 Enzyme : Trypsin  
 Variable modifications : [Carbamidomethyl \(C\)](#), [Oxidation \(M\)](#)  
 Mass values : Monoisotopic  
 Protein Mass : Unrestricted  
 Peptide Mass Tolerance :  $\pm 0.2$  Da  
 Fragment Mass Tolerance:  $\pm 0.2$  Da  
 Max Missed Cleavages : 1  
 Instrument type : Default  
 Number of queries : 455

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