

MATRIX SCIENCE MASCOT Search Results

Protein View: sp|Q99372-2|ELN_RAT

Isoform 2 of Elastin OS=Rattus norvegicus GN=Eln

Database: UPR_RattusNorvegicus
 Score: 2093
 Nominal mass (M_r): 69230
 Calculated pI: 10.44

Sequence similarity is available as [an NCBI BLAST search of sp|Q99372-2|ELN_RAT against nr.](#)

Search parameters

Enzyme: No enzyme cleavage specificity.
 Fixed modifications: **Carbamidomethyl (C)**
 Variable modifications: **Oxidation (P), Oxidation (K), Lys->Alllysine (K)**

Protein sequence coverage: 57%

Matched peptides shown in **bold red**.

1 MAGLTAAPVQ PGLLLILLN LLHPAQPQGV PG**AVPGGVP** GLPGGVPGGV
 51 YYPGAGIGGG LGGGALGPGG KPPKPGAGLL **GAFGAGPGL** GGAGPGAGLS
101 YASRPGGVLP PGGGAGAAA YKAAAKA**GAG** LGGIGGVPGG VGVGGVPGAV
 151 **GVGGVPGAVG** GIGGIGGLGV **STGAVPQLG** AGVGA**GGKPG** KVPGVGLPGV
 201 YPGGVLP**GTG** **ARFPGVGLP** **GVPTGTGVKA** KVPGGGGAF **SEIPGVGPFG**
 251 **GQPGVPLGV** PIKAPKLPAG AGGGVLP**GV** **GGGIPGGAG** AIPGIGGITG
 301 **AGTPAAAAA** KAAAKAAKYG **AGGLVPGGP** **GVKVPGAGIP** GVGIPGVGGI
 351 PGVGGIPGVG GIPGVGGPGI GPGIVGGPG AVSPAAAAA AAKAAKYGAR
 401 GGVGIPT**YGV** **GAGGFPYGV** **GAGAGLGGAS** QAAAAAAAK AAKYGAGGAG
 451 TLGGLVPGAV **PGALPGAVPG** **ALPGAVPGAL** **PGAVPGVPT** **GGVPGAGTPA**
 501 AAAAAAAKA AAKA**GQYGLG** **PGVGGVPGGV** **GVGGLPGGVG** **PGVGTIGITG**
 551 **PGTGLVPGDL** **GGAGTPAAK** SAAKAAAKA**Q** YRAA**AGL**GAG VPLGVGAGV
 601 **PGFGAGAGGF** **GAGAGVPGFG** **AGAVPGLAA** SKAAKYGAAG **GLGGPGLGG**
 651 **PGGLGGPGGF** **GGPGGLGGVP** **GGVAGGAPAA** AAAAAAAKA **AQYGLGGAGG**
 701 **LGAGGLGAGG** **LGAGGLGAGG** **LGAGGLGAGG** **VIPGAVLGG** **VSPAAAAKAA**
 751 KYGA**AGLGGV** **LGARPPFGG** **VAARPGFGLS** **PIYPPGGGAGG** **LGVGGKPPK**
 801 YGGALGALGY QGGGCFGKSC GRKRK

Unformatted sequence string: **825 residues** (for pasting into other applications).

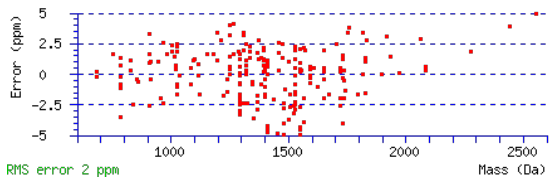
Sort peptides by Residue Number Increasing Mass Decreasing Mass

Query	Start - End	Observed	M _r (expt)	M _r (calc)	ppm	M	Score	Expect	Rank	W	Peptide
7427	33 - 50	730.4008	1458.7870	1458.7831	2.62	0	26	0.12	1	U	G.AVPGGVPGLPGGVPGGV.Y + Oxidation (P)
3914	37 - 50	560.3115	1118.6084	1118.6085	-0.078	0	65	0.00081	1	U	G.GVPGGLPGGVPGGV.Y
3916	37 - 50	560.3120	1118.6093	1118.6085	0.80	0	24	0.18	1	U	G.GVPGGLPGGVPGGV.Y
9484	79 - 100	877.4682	1752.9218	1752.9159	3.39	0	78	2.1e-06	1	U	G.LLGAFAFGAGPGLGGAGPGAGLS.Y
6653	81 - 98	664.3215	1326.6285	1326.6317	-2.40	0	22	0.099	1	U	L.GAFGAGPGLGGAGPGAGL.L
7853	81 - 100	764.3790	1526.7434	1526.7478	-2.89	0	88	9.9e-08	1	U	L.GAFGAGPGLGGAGPGAGLS.Y
7854	81 - 100	764.3793	1526.7440	1526.7478	-2.49	0	32	0.03	1	U	L.GAFGAGPGLGGAGPGAGLS.Y
7855	81 - 100	764.3795	1526.7444	1526.7478	-2.24	0	66	7.2e-05	1	U	L.GAFGAGPGLGGAGPGAGLS.Y
7856	81 - 100	764.3799	1526.7453	1526.7478	-1.61	0	88	1.5e-06	1	U	L.GAFGAGPGLGGAGPGAGLS.Y
7857	81 - 100	764.3806	1526.7466	1526.7478	-0.81	0	48	0.0004	1	U	L.GAFGAGPGLGGAGPGAGLS.Y
7858	81 - 100	764.3811	1526.7477	1526.7478	-0.086	0	87	7.9e-06	1	U	L.GAFGAGPGLGGAGPGAGLS.Y
7859	81 - 100	764.3816	1526.7486	1526.7478	0.55	0	109	6.1e-08	1	U	L.GAFGAGPGLGGAGPGAGLS.Y
7860	81 - 100	764.3821	1526.7496	1526.7478	1.19	0	27	0.065	1	U	L.GAFGAGPGLGGAGPGAGLS.Y
7861	81 - 100	764.3827	1526.7508	1526.7478	1.99	0	57	0.00028	1	U	L.GAFGAGPGLGGAGPGAGLS.Y
7862	81 - 100	764.3829	1526.7512	1526.7478	2.23	0	118	8.2e-09	1	U	L.GAFGAGPGLGGAGPGAGLS.Y
6552	83 - 99	656.8343	1311.6540	1311.6572	-2.40	0	27	0.12	2	U	A.FGAGPGLGGAGPGAGL.S
7095	83 - 100	700.3506	1398.6866	1398.6892	-1.85	0	41	0.069	1	U	A.FGAGPGLGGAGPGAGLS.Y
7096	83 - 100	700.3507	1398.6869	1398.6892	-1.68	0	25	0.26	1	U	A.FGAGPGLGGAGPGAGLS.Y
7097	83 - 100	700.3511	1398.6877	1398.6892	-1.07	0	57	0.0016	1	U	A.FGAGPGLGGAGPGAGLS.Y
7098	83 - 100	700.3516	1398.6886	1398.6892	-0.46	0	35	0.22	1	U	A.FGAGPGLGGAGPGAGLS.Y
7100	83 - 100	700.3520	1398.6894	1398.6892	0.16	0	64	0.00018	1	U	A.FGAGPGLGGAGPGAGLS.Y
7101	83 - 100	700.3522	1398.6898	1398.6892	0.42	0	35	0.023	1	U	A.FGAGPGLGGAGPGAGLS.Y
7102	83 - 100	700.3522	1398.6899	1398.6892	0.51	0	20	0.69	1	U	A.FGAGPGLGGAGPGAGLS.Y
7620	101 - 117	743.3932	1484.7718	1484.7736	-1.19	0	35	0.053	1	U	S.YASRPGGVLPVGGGAGA.A
7671	101 - 117	751.3923	1500.7700	1500.7685	0.99	0	33	0.34	1	U	S.YASRPGGVLPVGGGAGA.A + Oxidation (P)
8049	101 - 118	778.9129	1555.8113	1555.8107	0.36	0	39	0.0061	1	U	S.YASRPGGVLPVGGGAGA.A
8471	101 - 118	786.9116	1571.8087	1571.8056	1.95	0	40	0.0068	1	U	S.YASRPGGVLPVGGGAGA.A + Oxidation (P)
5714	103 - 117	626.3439	1250.6732	1250.6732	0.028	0	49	0.0023	1	U	A.SRPGGVLPVGGGAGA.A
5715	103 - 117	626.3441	1250.6737	1250.6732	0.42	0	59	0.003	1	U	A.SRPGGVLPVGGGAGA.A
5716	103 - 117	626.3441	1250.6737	1250.6732	0.42	0	52	0.0008	1	U	A.SRPGGVLPVGGGAGA.A
5717	103 - 117	626.3448	1250.6750	1250.6732	1.49	0	38	0.026	1	U	A.SRPGGVLPVGGGAGA.A
5720	103 - 117	626.3458	1250.6771	1250.6732	3.15	0	37	0.3	1	U	A.SRPGGVLPVGGGAGA.A
5721	103 - 117	626.3464	1250.6782	1250.6732	4.03	0	35	0.21	1	U	A.SRPGGVLPVGGGAGA.A
5926	103 - 117	634.3423	1266.6701	1266.6681	1.63	0	62	0.0006	1	U	A.SRPGGVLPVGGGAGA.A + Oxidation (P)
5927	103 - 117	634.3439	1266.6733	1266.6681	4.14	0	51	0.0016	1	U	A.SRPGGVLPVGGGAGA.A + Oxidation (P)
6616	103 - 118	661.8624	1321.7103	1321.7103	0.027	0	23	0.24	1	U	A.SRPGGVLPVGGGAGA.A
6617	103 - 118	661.8625	1321.7105	1321.7103	0.21	0	26	0.062	1	U	A.SRPGGVLPVGGGAGA.A
6618	103 - 118	661.8626	1321.7107	1321.7103	0.30	0	47	0.0063	1	U	A.SRPGGVLPVGGGAGA.A
6619	103 - 118	661.8629	1321.7112	1321.7103	0.67	0	51	0.0036	1	U	A.SRPGGVLPVGGGAGA.A
6620	103 - 118	661.8629	1321.7112	1321.7103	0.67	0	46	0.0092	1	U	A.SRPGGVLPVGGGAGA.A
6621	103 - 118	661.8632	1321.7118	1321.7103	1.13	0	52	0.0025	1	U	A.SRPGGVLPVGGGAGA.A

Query	Start - End	Observed	Mr(expt)	Mr(calc)	ppm	M	Score	Expect	Rank	W	Peptide
6622	103 - 118	661.8640	1321.7135	1321.7103	2.43	0	31	0.11	1	1	A.SRPGGVLVPGGGAGAA.A
6698	103 - 118	669.8608	1337.7070	1337.7052	1.36	0	47	0.008	1	1	A.SRPGGVLVPGGGAGAA.A + Oxidation (P)
6699	103 - 118	669.8611	1337.7076	1337.7052	1.82	0	58	0.00027	1	1	U.A.SRPGGVLVPGGGAGAA.A + Oxidation (P)
6700	103 - 118	669.8614	1337.7082	1337.7052	2.27	0	46	0.0051	1	1	U.A.SRPGGVLVPGGGAGAA.A + Oxidation (P)
5463	128 - 143	612.3397	1222.6649	1222.6670	-1.76	0	22	1.3	2	1	U.A.GAGLGGTGGVPGVGV.G
9748	128 - 150	880.9897	1759.9648	1759.9582	3.78	0	20	0.12	1	1	U.A.GAGLGGTGGVPGVGVGVGAV.G
10525	128 - 152	967.0302	1932.0457	1932.0430	1.44	0	31	0.068	1	1	U.A.GAGLGGTGGVPGVGVGVGAV.G + Oxidation (P)
9314	149 - 170	860.4915	1718.9684	1718.9680	0.22	0	34	0.0059	1	1	U.G.AVGVGGVPGAVGGTGGTGLG.S
9315	149 - 170	860.4917	1718.9688	1718.9680	0.50	0	64	3.6e-05	1	1	U.G.AVGVGGVPGAVGGTGGTGLG.S
9390	149 - 170	868.4871	1734.9596	1734.9629	-1.92	0	63	6.6e-05	1	1	U.G.AVGVGGVPGAVGGTGGTGLG.S + Oxidation (P)
9391	149 - 170	868.4883	1734.9620	1734.9629	-0.52	0	32	0.068	1	1	U.G.AVGVGGVPGAVGGTGGTGLG.S + Oxidation (P)
9392	149 - 170	868.4890	1734.9635	1734.9629	0.33	0	50	0.0011	1	1	U.G.AVGVGGVPGAVGGTGGTGLG.S + Oxidation (P)
7993	151 - 170	775.4387	1548.8628	1548.8625	0.20	0	45	0.0018	1	1	U.V.GVGGVPGAVGGTGGTGLG.S
7994	151 - 170	775.4388	1548.8630	1548.8625	0.36	0	86	8e-07	1	1	U.V.GVGGVPGAVGGTGGTGLG.S
7995	151 - 170	775.4388	1548.8631	1548.8625	0.44	0	39	0.024	1	1	U.V.GVGGVPGAVGGTGGTGLG.S
7997	151 - 170	775.4392	1548.8639	1548.8625	0.91	0	91	2.1e-06	1	1	U.V.GVGGVPGAVGGTGGTGLG.S
8000	151 - 170	775.4401	1548.8656	1548.8625	2.01	0	31	0.081	1	1	U.V.GVGGVPGAVGGTGGTGLG.S
8142	151 - 170	783.4376	1564.8607	1564.8574	2.12	0	66	0.00035	1	1	U.V.GVGGVPGAVGGTGGTGLG.S + Oxidation (P)
7065	153 - 170	697.3937	1392.7728	1392.7726	0.17	0	77	2.4e-05	1	1	U.V.GVPGAVGGTGGTGLG.S
7066	153 - 170	697.3940	1392.7735	1392.7726	0.69	0	91	2e-06	1	1	U.V.GVPGAVGGTGGTGLG.S
7068	153 - 170	697.3943	1392.7741	1392.7726	1.13	0	56	0.00022	1	1	U.V.GVPGAVGGTGGTGLG.S
7069	153 - 170	697.3944	1392.7743	1392.7726	1.22	0	68	1.5e-05	1	1	U.V.GVPGAVGGTGGTGLG.S
7071	153 - 170	697.3950	1392.7754	1392.7726	2.01	0	33	0.009	1	1	U.V.GVPGAVGGTGGTGLG.S
7072	153 - 170	697.3951	1392.7756	1392.7726	2.18	0	55	0.00056	1	1	U.V.GVPGAVGGTGGTGLG.S
7155	153 - 170	705.3910	1408.7674	1408.7675	-0.040	0	40	0.0073	1	1	U.V.GVPGAVGGTGGTGLG.S + Oxidation (P)
7156	153 - 170	705.3910	1408.7674	1408.7675	-0.040	0	61	8e-05	1	1	U.V.GVPGAVGGTGGTGLG.S + Oxidation (P)
7157	153 - 170	705.3915	1408.7684	1408.7675	0.65	0	69	2.6e-05	1	1	U.V.GVPGAVGGTGGTGLG.S + Oxidation (P)
7158	153 - 170	705.3916	1408.7687	1408.7675	0.83	0	40	0.013	1	1	U.V.GVPGAVGGTGGTGLG.S + Oxidation (P)
7159	153 - 170	705.3918	1408.7690	1408.7675	1.09	0	41	0.0048	1	1	U.V.GVPGAVGGTGGTGLG.S + Oxidation (P)
7889	158 - 170	513.7999	1025.5853	1025.5870	-1.63	0	52	0.0041	1	1	U.G.AVGGTGGTGLG.S
7890	158 - 170	513.8002	1025.5859	1025.5870	-1.04	0	26	0.24	1	1	U.G.AVGGTGGTGLG.S
7891	158 - 170	513.8004	1025.5862	1025.5870	-0.80	0	33	0.057	1	1	U.G.AVGGTGGTGLG.S
4527	173 - 183	484.2834	966.5523	966.5498	2.58	0	29	0.098	1	1	U.T.GAVVPLGAGV.G
2216	173 - 183	548.3121	1094.6097	1094.6084	1.18	0	21	0.16	1	1	U.T.GAVVPLGAGV.G
3661	173 - 185	377.7271	753.4397	753.4385	1.65	0	34	0.28	1	1	U.G.AVVPLGA.G
499	174 - 181	455.7703	909.5260	909.5284	-2.58	0	63	0.00029	1	1	U.G.AVVPLGAGV.G
1444	174 - 183	455.7719	909.5292	909.5284	0.91	0	38	0.022	1	1	U.G.AVVPLGAGV.G
1446	174 - 183	455.7722	909.5299	909.5284	1.65	0	27	0.18	1	1	U.G.AVVPLGAGV.G
1447	174 - 183	455.7730	909.5314	909.5284	3.33	0	27	0.22	1	1	U.G.AVVPLGAGV.G
1448	174 - 183	455.7730	909.5314	909.5284	3.33	0	27	0.22	1	1	U.G.AVVPLGAGV.G
3028	174 - 185	519.8007	1037.5869	1037.5870	-0.069	0	25	0.45	1	1	U.G.AVVPLGAGV.G
1020	175 - 183	420.2519	838.4892	838.4913	-2.50	0	23	0.13	1	1	U.A.VVPLGAGV.G
7831	209 - 224	762.9279	1523.8412	1523.8461	-3.21	0	24	0.17	1	1	U.G.TGARFPVGVPLPGVPT.G
7832	209 - 224	762.9283	1523.8421	1523.8461	-2.57	0	36	0.017	1	1	U.G.TGARFPVGVPLPGVPT.G
6921	211 - 224	683.8937	1365.7729	1365.7769	-2.91	0	39	0.028	1	1	U.G.ARFPGVGVPLPGVPT.G
6922	211 - 224	683.8942	1365.7738	1365.7769	-2.29	0	23	0.16	1	1	U.G.ARFPGVGVPLPGVPT.G
6923	211 - 224	683.8945	1365.7745	1365.7769	-1.75	0	34	0.039	1	1	U.G.ARFPGVGVPLPGVPT.G
6383	212 - 224	648.3751	1294.7356	1294.7398	-3.26	0	39	0.019	1	1	U.A.RFPVGVPLPGVPT.G
6387	212 - 224	648.3752	1294.7358	1294.7398	-3.07	0	40	0.049	1	1	U.A.RFPVGVPLPGVPT.G
6388	212 - 224	648.3752	1294.7359	1294.7398	-2.98	0	55	0.0032	1	1	U.A.RFPVGVPLPGVPT.G
6390	212 - 224	648.3755	1294.7365	1294.7398	-2.51	0	26	0.31	1	1	U.A.RFPVGVPLPGVPT.G
6394	212 - 224	648.3758	1294.7370	1294.7398	-2.13	0	40	0.019	1	1	U.A.RFPVGVPLPGVPT.G
6395	212 - 224	648.3759	1294.7373	1294.7398	-1.94	0	43	0.035	1	1	U.A.RFPVGVPLPGVPT.G
6397	212 - 224	648.3761	1294.7376	1294.7398	-1.66	0	24	0.18	1	1	U.A.RFPVGVPLPGVPT.G
6398	212 - 224	648.3761	1294.7376	1294.7398	-1.66	0	39	0.019	1	1	U.A.RFPVGVPLPGVPT.G
6405	212 - 224	648.3766	1294.7387	1294.7398	-0.81	0	25	0.19	2	1	U.A.RFPVGVPLPGVPT.G
6406	212 - 224	648.3767	1294.7389	1294.7398	-0.72	0	21	0.65	2	1	U.A.RFPVGVPLPGVPT.G
6409	212 - 224	648.3771	1294.7396	1294.7398	-0.15	0	23	0.34	1	1	U.A.RFPVGVPLPGVPT.G
6411	212 - 224	648.3773	1294.7400	1294.7398	0.13	0	25	0.38	1	1	U.A.RFPVGVPLPGVPT.G
6417	212 - 224	648.3776	1294.7406	1294.7398	0.60	0	24	0.31	1	1	U.A.RFPVGVPLPGVPT.G
6421	212 - 224	648.3780	1294.7414	1294.7398	1.27	0	20	0.31	1	1	U.A.RFPVGVPLPGVPT.G
6423	212 - 224	648.3782	1294.7419	1294.7398	1.64	0	33	0.1	1	1	U.A.RFPVGVPLPGVPT.G
10144	240 - 258	913.9766	1825.9387	1825.9363	1.29	0	43	0.0013	1	1	U.A.FSGTLPVGVPPGGQPPVPL.G + Oxidation (P)
8601	242 - 258	796.9250	1591.8354	1591.8359	-0.29	0	26	0.14	1	1	U.S.GTLPVGVPPGGQPPVPL.G + Oxidation (P)
8602	242 - 258	796.9251	1591.8357	1591.8359	-0.14	0	44	0.0025	1	1	U.S.GTLPVGVPPGGQPPVPL.G + Oxidation (P)
8605	242 - 258	796.9255	1591.8365	1591.8359	0.40	0	37	0.039	1	1	U.S.GTLPVGVPPGGQPPVPL.G + Oxidation (P)
8607	242 - 258	796.9257	1591.8369	1591.8359	0.63	0	62	0.00014	1	1	U.S.GTLPVGVPPGGQPPVPL.G + Oxidation (P)
8627	280 - 299	797.4328	1592.8510	1592.8523	-0.76	0	38	0.034	1	1	U.G.VGGGTPGGAGAIPIGGIT.G + Oxidation (P)
8719	280 - 299	805.4313	1608.8480	1608.8472	0.51	0	35	0.027	1	1	U.G.VGGGTPGGAGAIPIGGIT.G + 2 Oxidation (P)
9180	280 - 301	853.4673	1704.9201	1704.9159	2.47	0	24	0.098	1	1	U.G.VGGGTPGGAGAIPIGGITGA.G
9324	280 - 301	861.4605	1720.9065	1720.9108	-2.54	0	25	0.043	1	1	U.G.VGGGTPGGAGAIPIGGITGA.G + Oxidation (P)
9325	280 - 301	861.4610	1720.9074	1720.9108	-1.97	0	23	0.22	1	1	U.G.VGGGTPGGAGAIPIGGITGA.G + Oxidation (P)
10886	280 - 305	1032.5426	2063.0707	2063.0648	2.84	0	50	0.0027	1	1	U.G.VGGGTPGGAGAIPIGGITGAGTGA.A + 2 Oxidation (P)
6531	290 - 305	655.3605	1308.7064	1308.7038	2.00	0	25	0.11	1	1	U.A.GAIPGIGGITGAGTGA.A
6532	290 - 305	655.3613	1308.7080	1308.7038	3.21	0	26	0.063	1	1	U.A.GAIPGIGGITGAGTGA.A
6299	323 - 337	645.3711	1288.7276	1288.7252	1.89	0	23	0.078	1	1	U.A.GGLVPGGPGVVRVPGA.G
6732	408 - 422	672.8140	1343.6135	1343.6147	-0.86	0	36	0.07	1	1	U.T.YGVGAGGFPGYGVGA.G + Oxidation (P)
6734	408 - 422	672.8142	1343.6139	1343.6147	-0.59	0	21	0.63	1	1	U.T.YGVGAGGFPGYGVGA.G + Oxidation (P)
7515	408 - 424	736.8448	1471.6751	1471.6732	1.30	0	41	0.0041	1	1	U.T.YGVGAGGFPGYGVGA.G + Oxidation (P)
10154	408 - 429	914.4352	1826.8559	1826.8588	-1.58	0	28	0.069	1	1	U.T.YGVGAGGFPGYGVGAGAGLGA.S + Oxidation (P)
1136	423 - 433	430.2168	858.4190	858.4195	-0.58						

Query	Start - End	Observed	Mr(expt)	Mr(calc)	ppm	M	Score	Expect	Rank	W	Peptide
2633	459 - 470	503.2910	1004.5674	1004.5655	1.86	0	32	0.032	1	1	G.AVPGALPGAVPG.A
2634	459 - 470	503.2912	1004.5679	1004.5655	2.40	0	41	0.0034	1	1	G.AVPGALPGAVPG.A
251	463 - 470	341.2001	680.3856	680.3857	-0.20	0	20	0.99	2	1	G.ALPGAVPG.A
255	463 - 470	341.2002	680.3858	680.3857	0.16	0	21	1.8	3	1	G.ALPGAVPG.A
256	463 - 470	341.2002	680.3858	680.3857	0.16	0	22	0.39	2	1	G.ALPGAVPG.A
2796	463 - 474	510.2981	1018.5816	1018.5811	0.50	0	32	0.047	1	1	G.ALPGAVPGALPG.A
10170	479 - 500	916.4886	1830.9527	1830.9476	2.79	0	26	0.025	1	1	G.ALPGAVPGVPGGGVPGAGTAA.A + 2 Oxidation(P)
7431	483 - 500	731.3887	1460.7628	1460.7624	0.28	0	35	0.012	1	1	G.AVPGVPGTGGVPGAGTAA.A
7432	483 - 500	731.3898	1460.7650	1460.7624	1.78	0	41	0.0043	1	1	G.AVPGVPGTGGVPGAGTAA.A
7534	483 - 500	739.3878	1476.7610	1476.7573	2.47	0	22	0.19	1	1	G.AVPGVPGTGGVPGAGTAA.A + Oxidation(P)
7850	515 - 532	763.9006	1525.7867	1525.7890	-1.47	0	30	0.036	1	1	A.GQYGLPGVGGVPGGGV.G
7696	529 - 547	753.9154	1505.8163	1505.8214	-2.66	0	21	0.13	1	1	G.GVGGVPGVGGVPGGGV.G
7697	529 - 547	753.9161	1505.8177	1505.8203	-1.69	0	36	0.0084	1	1	G.GVGGVPGVGGVPGGGV.G
4782	531 - 545	590.8207	1179.6268	1179.6248	1.66	0	24	0.14	1	1	V.VGGVPGVGGVPGGGV.G
6806	531 - 547	675.8700	1349.7254	1349.7304	-3.66	0	30	0.057	1	1	V.VGGVPGVGGVPGGGV.G
6914	531 - 547	683.8712	1365.7278	1365.7253	1.80	0	34	0.016	1	1	V.VGGVPGVGGVPGGGV.G + Oxidation(P)
2843	533 - 545	512.7759	1023.5373	1023.5350	2.32	0	22	0.1	1	1	V.VGGVPGVGGVPGGGV.G
2844	533 - 545	512.7760	1023.5374	1023.5350	2.43	0	21	0.46	2	1	V.VGGVPGVGGVPGGGV.G
4908	533 - 547	597.8282	1193.6418	1193.6405	1.12	0	31	0.033	2	1	V.VGGVPGVGGVPGGGV.G
5212	533 - 547	605.8267	1209.6388	1209.6354	2.78	0	32	0.065	1	1	V.VGGVPGVGGVPGGGV.G + Oxidation(P)
8958	548 - 567	826.4163	1650.8181	1650.8214	-1.98	0	24	0.083	2	1	I.GTGPVGTGLVPGDILGGAGTAA.A
8962	548 - 567	826.4176	1650.8207	1650.8214	-0.43	0	44	0.0046	1	1	I.GTGPVGTGLVPGDILGGAGTAA.A
8965	548 - 567	826.4182	1650.8218	1650.8214	0.23	0	29	0.074	1	1	I.GTGPVGTGLVPGDILGGAGTAA.A
8966	548 - 567	826.4184	1650.8222	1650.8214	0.53	0	30	0.032	1	1	I.GTGPVGTGLVPGDILGGAGTAA.A
8968	548 - 567	826.4196	1650.8247	1650.8214	2.01	0	40	0.01	1	1	I.GTGPVGTGLVPGDILGGAGTAA.A
2212	585 - 596	484.2810	966.5475	966.5498	-2.41	0	22	0.68	1	1	A.AGLGAGVPLGLV.G
4088	599 - 612	561.2714	1120.5283	1120.5302	-1.70	0	40	0.009	1	1	A.GVPGFAGAGAGGFGA.G
4089	599 - 612	561.2714	1120.5283	1120.5302	-1.70	0	33	0.064	1	1	A.GVPGFAGAGAGGFGA.G
5684	599 - 614	625.3021	1248.5896	1248.5888	0.64	0	51	0.00057	1	1	A.GVPGFAGAGAGGFGA.G
7673	608 - 626	751.8702	1501.7259	1501.7314	-3.67	0	20	0.12	1	1	A.GVPGFAGAGAGGFGA.G + S
2442	615 - 626	493.2596	984.5046	984.5029	1.66	0	28	0.51	1	1	A.GVPGFAGAGAVPG.S
11585	640 - 673	1278.6577	2555.3009	2555.2882	4.96	0	44	0.0019	1	1	A.GGLGGVPGVGGVAG.G
7358	655 - 673	726.8616	1451.7087	1451.7158	-4.88	0	20	0.27	1	1	L.GGGVGGVGGVGGV.G
1469	664 - 675	457.2404	912.4662	912.4665	-0.41	0	26	0.46	1	1	P.GGLGGVPGVGGVAG.G + Oxidation(P)
1470	664 - 675	457.2410	912.4674	912.4665	0.99	0	27	0.63	1	1	P.GGLGGVPGVGGVAG.G + Oxidation(P)
2804	692 - 703	510.7593	1019.5041	1019.5036	0.44	0	20	1.2	2	1	A.QYGLGGAGGLGA.G
2807	692 - 703	510.7595	1019.5044	1019.5036	0.74	0	69	0.00013	1	1	A.QYGLGGAGGLGA.G
6953	692 - 708	688.3527	1374.6909	1374.6892	1.24	0	51	0.015	1	1	A.QYGLGGAGGLGAGGLGA.G
6954	692 - 708	688.3538	1374.6931	1374.6892	2.83	0	60	0.0018	1	1	A.QYGLGGAGGLGAGGLGA.G
9371	692 - 713	865.9412	1729.8679	1729.8748	-3.98	0	88	1.3e-06	1	1	A.QYGLGGAGGLGAGGLGAGGLGA.G
9372	692 - 713	865.9444	1729.8742	1729.8748	-0.31	0	97	9.9e-07	1	1	A.QYGLGGAGGLGAGGLGAGGLGA.G
9373	692 - 713	865.9457	1729.8769	1729.8748	1.25	0	73	2.1e-05	1	1	A.QYGLGGAGGLGAGGLGAGGLGA.G
9374	692 - 713	865.9460	1729.8774	1729.8748	1.53	0	50	0.0053	1	1	A.QYGLGGAGGLGAGGLGAGGLGA.G
10950	692 - 718	1043.5377	2085.0609	2085.0603	0.26	0	30	1.3	2	1	A.QYGLGGAGGLGAGGLGAGGLGAGGLGA.G
10951	692 - 718	1043.5381	2085.0616	2085.0603	0.61	0	27	0.03	1	1	A.QYGLGGAGGLGAGGLGAGGLGAGGLGA.G
11445	692 - 723	1221.1350	2440.2555	2440.2459	3.91	0	56	0.00021	1	1	A.QYGLGGAGGLGAGGLGAGGLGAGGLGA.G
3509	694 - 708	542.7905	1083.5664	1083.5673	-0.84	0	76	7.4e-05	1	1	Y.GLGGAGGLGAGGLGA.G
2061	699 - 711	478.7607	955.5068	955.5087	-1.99	0	31	0.78	1	1	A.GGLGAGGLGAGGLGA.G
3510	699 - 713	542.7912	1083.5678	1083.5673	0.51	0	51	0.026	1	1	A.GGLGAGGLGAGGLGA.G
7296	699 - 718	720.3822	1438.7499	1438.7529	-2.10	0	84	1e-06	1	1	A.GGLGAGGLGAGGLGAGGLGA.G
9918	699 - 723	897.9750	1793.9355	1793.9384	-1.63	0	30	0.057	1	1	A.GGLGAGGLGAGGLGAGGLGAGGLGA.G
11289	704 - 734	1138.1134	2274.2123	2274.2081	1.83	0	47	0.0079	1	1	A.GGLGAGGLGAGGLGAGGLGAGGLGAGGLGA.G
10479	709 - 734	960.5215	1919.0285	1919.0225	3.13	0	27	0.087	1	1	A.GGLGAGGLGAGGLGAGGLGAGGLGAGGLGA.G
8132	714 - 734	782.9227	1563.8308	1563.8369	-3.94	0	42	0.0049	1	1	A.GGLGAGGLGAGGLGAGGLGAGGLGAGGLGA.G
8134	714 - 734	782.9243	1563.8340	1563.8369	-1.91	0	70	3.7e-05	1	1	A.GGLGAGGLGAGGLGAGGLGAGGLGAGGLGA.G
956	735 - 744	414.2349	826.4552	826.4549	0.36	0	43	0.065	1	1	G.AVGLGGVSPA.A
957	735 - 744	414.2352	826.4558	826.4549	1.09	0	44	0.027	1	1	G.AVGLGGVSPA.A
8810	755 - 773	812.4511	1622.8875	1622.8893	-1.08	0	27	0.074	1	1	A.AGLGGVGLGARPPFPGGGVAA.R
4936	756 - 768	599.3426	1196.6706	1196.6666	3.36	0	66	0.00022	1	1	A.GLGGVGLGARPPFPGG.V
7168	756 - 771	705.8929	1409.7713	1409.7780	-4.70	0	41	0.0045	1	1	A.GLGGVGLGARPPFPGGGV.A
7169	756 - 771	705.8930	1409.7715	1409.7780	-4.62	0	47	0.00057	1	1	A.GLGGVGLGARPPFPGGGV.A
7170	756 - 771	705.8931	1409.7717	1409.7780	-4.45	0	57	8.9e-05	1	1	A.GLGGVGLGARPPFPGGGV.A
7171	756 - 771	705.8933	1409.7721	1409.7780	-4.18	0	55	0.00036	1	1	A.GLGGVGLGARPPFPGGGV.A
7597	756 - 772	741.4111	1480.8077	1480.8151	-4.97	0	50	0.00053	1	1	A.GLGGVGLGARPPFPGGGVAA.A
7598	756 - 772	741.4118	1480.8091	1480.8151	-4.07	0	59	8.4e-05	1	1	A.GLGGVGLGARPPFPGGGVAA.A
7599	756 - 772	741.4127	1480.8109	1480.8151	-2.83	0	36	0.012	1	1	A.GLGGVGLGARPPFPGGGVAA.A
7600	756 - 772	741.4131	1480.8116	1480.8151	-2.34	0	21	0.15	1	1	A.GLGGVGLGARPPFPGGGVAA.A
8023	756 - 773	776.9296	1551.8446	1551.8522	-4.90	0	48	0.0059	1	1	A.GLGGVGLGARPPFPGGGVAA.R
8025	756 - 773	776.9299	1551.8452	1551.8522	-4.51	0	50	0.0014	1	1	A.GLGGVGLGARPPFPGGGVAA.R
8027	756 - 773	776.9300	1551.8454	1551.8522	-4.35	0	55	0.00075	1	1	A.GLGGVGLGARPPFPGGGVAA.R
8029	756 - 773	776.9313	1551.8480	1551.8522	-2.70	0	43	0.0031	1	1	A.GLGGVGLGARPPFPGGGVAA.R
2894	758 - 768	514.2888	1026.5630	1026.5611	1.83	0	31	0.028	1	1	L.GGVLGARPPFPGG.V
5605	758 - 771	620.8426	1239.6706	1239.6724	-1.46	0	32	0.081	1	1	L.GGVLGARPPFPGGGV.A
5609	758 - 771	620.8433	1239.6720	1239.6724	-0.38	0	45	0.0022	1	1	L.GGVLGARPPFPGGGV.A
6545	758 - 772	656.3605	1310.7064	1310.7095	-2.41	0	26	0.14	1	1	L.GGVLGARPPFPGGGVAA.A
6546	758 - 772	656.3643	1310.7140	1310.7095	3.37	0	30	0.049	1	1	L.GGVLGARPPFPGGGVAA.A
7019	758 - 773	691.8801	1381.7456	1381.7467	-0.78	0	26	0.044	1	1	L.GGVLGARPPFPGGGVAA.R
7020	758 - 773	691.8815	1381.7485	1381.7467	1.34	0	21	0.22	1	1	L.GGVLGARPPFPGGGVAA.R
649	764 - 771	393.7151	785.4157	785.4184	-3.51	0	25	0.088	1	1	A.RPPFPGGGV.A
651	764 - 771	393.7161	785.4176	785.4184	-1.10	0	22	0.2	1	1	A.RPPFPGGGV.A
652	764 - 771	393.7161	785.4176	785.4184	-1.10	0	25	2.7	3	1	A.RPPFPGGGV.A
653	764 - 771	393.7162	785.4178	785.4184	-0.79	0	28	0.13	1	1	A.RPPFPGGGV.A

Query	Start - End	Observed	Mr(expt)	Mr(calc)	ppm	M Score	Expect	Rank	W	Peptide
9459	773 - 791	872.4613	1742.9081	1742.9104	-1.35	37	0.0052	1	U	A..ARPGFGLSPIYPGGGAGGL.G
10413	773 - 793	950.5074	1899.0003	1899.0003	0.018	27	0.071	1	U	A..ARPGFGLSPIYPGGGAGGLGV.G
1866	774 - 782	472.2721	942.5296	942.5287	0.99	21	1.2	2	U	A..RPGFGLSPI.Y
9113	774 - 791	836.9426	1671.8706	1671.8733	-1.63	21	0.7	1	U	A..RPGFGLSPIYPGGGAGGL.G
10156	774 - 793	914.9898	1827.9651	1827.9632	1.02	47	0.0044	1	U	A..RPGFGLSPIYPGGGAGGLGV.G
10157	774 - 793	914.9901	1827.9655	1827.9632	1.29	60	0.0027	1	U	A..RPGFGLSPIYPGGGAGGLGV.G



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