



MASCOT Search Results

Protein View: ADL64002.1

ribosomal protein S3, partial (mitochondrion) [*Spinacia oleracea*]

Database: NCBIprot
Score: 82
Expect: 0.041
Monoisotopic mass (M_r): 55157
Calculated pI: 10.57
Taxonomy: [Spinacia oleracea](#)

Sequence similarity is available as [an NCBI BLAST search of ADL64002.1 against nr.](#)

Search parameters

Enzyme: Trypsin: cuts C-term side of KR unless next residue is P.
Fixed modifications: [Carbamidomethyl \(C\)](#)
Variable modifications: [Oxidation \(M\)](#)
Mass values searched: 26
Mass values matched: 16

Protein sequence coverage: 27%

Matched peptides shown in **bold red**.

```

1  FFLPRRPQRR KRRTKSRPGK KKGRWWELGK VGPIECLYSS EGRKEERNEV
51  RGRRAGKRVG SIRLDDQKKQ NEIRVWPKKK QRYGYHDRSP SIKKNLSKSL
101 RVSGAFKHPK YAEVVNDIAF LIENDDSFKK TKLFKFFFPK KSRYDGPTRH
151 LLKRTLPSAR PSLNYSVMQY LLHTKNKIHF DPVLVLNHFV APGVVEPSTM
201 KRANTQGRRL DKRIRSRIAF FLESSTSDKK CLAEAKKRLT HFIRQANDLR
251 FAGRRKTAIS LFPFFGATFF FPRDGVRVYK ALFFKDAREQ LLGQLRRKCW
301 NLLGKDKVIK LIEKFIDLGG IRELIKGIEM MIEIILKNRR IPYGYNSYLN
351 EVKKMRSLLS NRTNTNTLIE SVKIKSVYQS ASSIAQDISF QPKKKRGSFR
401 SIFSKIVKKI PLVMKKGVEG IRICCSGRLE GAEIARTECG KYGKTSCNVL
451 HQKIDYASAE VSTRYGIVGV KV
  
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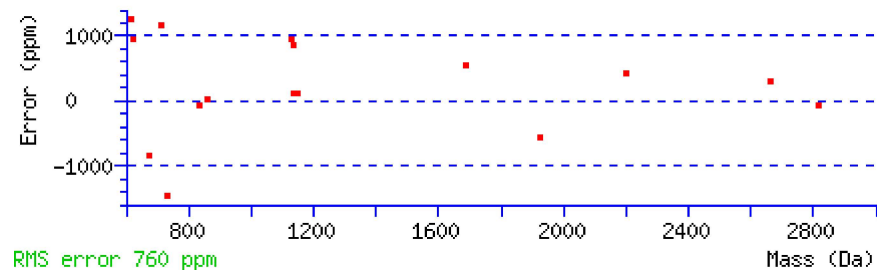
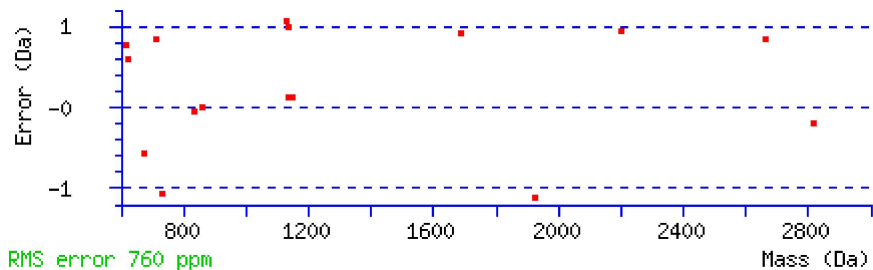
Unformatted sequence string: **472 residues** (for pasting into other applications).

Sort by residue number increasing mass decreasing mass

Show matched peptides only predicted peptides also

Start - End	Observed	Mr (expt)	Mr (calc)	Delta M	Peptide
6 - 10	713.2700	712.2627	711.4252	0.8375 1	R.RPQRR.K
16 - 21	671.8540	670.8467	671.4078	-0.5611 1	K.SRPGKK.K
59 - 68	1131.6910	1130.6837	1129.6091	1.0746 1	R.VGSIRLDDQK.K
64 - 68	619.0880	618.0807	617.3020	0.7787 0	R.LDDQK.K
111 - 129	2203.0000	2201.9927	2201.0528	0.9399 0	K.YAEVVNDIAFLIENDDSFK.K
178 - 201	2663.2400	2662.2327	2661.3989	0.8338 0	K.IHFDPLVLVNLHFVAPGVVEPSTMK.R + Oxidation (M)
178 - 202	2818.3010	2817.2937	2817.5000	-0.2063 1	K.IHFDPLVLVNLHFVAPGVVEPSTMKR.A + Oxidation (M)
245 - 254	1147.7130	1146.7057	1146.5894	0.1163 1	R.QANDLRFAGR.R
281 - 285	625.9570	624.9497	624.3635	0.5862 0	K.ALFFK.D
299 - 307	1133.6970	1132.6897	1132.5699	0.1198 1	K.CWNLLGKDK.V
299 - 307	1134.5650	1133.5577	1132.5699	0.9878 1	K.CWNLLGKDK.V
341 - 354	1688.7910	1687.7837	1686.8617	0.9220 1	R.IPYGYNSYLNEVKK.M
429 - 436	858.4780	857.4707	857.4606	0.0101 0	R.LEGAEIAR.T
454 - 471	1926.9030	1925.8957	1927.0051	-1.1094 1	K.IDYASAEVSTRYGIVGVK.V
465 - 471	734.3760	733.3687	734.4327	-1.0640 0	R.YGIVGVK.V
465 - 472	834.4480	833.4407	833.5011	-0.0604 1	R.YGIVGVKV.-

No match to: 633.9730, 641.9770, 683.2800, 693.0510, 1051.6740, 1062.6330, 1672.8000, 1682.7770, 2104.9090, 2691.1980



LOCUS ADL64002 472 aa linear PLN 25-SEP-2018
 DEFINITION ribosomal protein S3, partial (mitochondrion) [Spinacia oleracea].
 ACCESSION ADL64002
 VERSION ADL64002.1
 DBSOURCE accession GU351817.1
 KEYWORDS .
 SOURCE mitochondrion Spinacia oleracea (spinach)
 ORGANISM Spinacia oleracea
 Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;

Spermatophyta; Magnoliophyta; eudicotyledons; Gunneridae;
 Pentapetalae; Caryophyllales; Chenopodiaceae; Chenopodioideae;
 Anserineae; Spinacia.

REFERENCE 1 (residues 1 to 472)
 AUTHORS Qiu,Y.-L., Li,L., Wang,B., Xue,J., Hendry,T.A., Li,R., Brown,J.W.,
 Liu,Y., Hudson,G.T. and Chen,Z.
 TITLE Angiosperm phylogeny inferred from sequences of four mitochondrial
 genes
 JOURNAL J Syst Evol 48, 391-425 (2010)

REFERENCE 2 (residues 1 to 472)
 AUTHORS Qiu,Y.-L., Li,L., Wang,B., Xue,J., Hendry,T.A., Li,R., Liu,Y.,
 Hudson,G.T. and Chen,Z.
 TITLE Direct Submission
 JOURNAL Submitted (21-DEC-2009) Ecology and Evolutionary Biology,
 University of Michigan, Ann Arbor, MI 48109, USA

COMMENT Method: conceptual translation.

FEATURES Location/Qualifiers
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Mascot: <http://www.matrixscience.com/>