

Protein View: AFG48690.1

hypothetical protein CL3131Contig1_04, partial [Pinus taeda]

Database: NCBIprot
Score: 69
Expect: 0.68
Monoisotopic mass (M_r): 7501
Calculated pI: 4.42
Taxonomy: [Pinus taeda](#)

This protein sequence matches the following other entries:

- AFG48691.1 from [Pinus taeda](#)
- AFG48692.1 from [Pinus taeda](#)
- AFG48693.1 from [Pinus taeda](#)
- AFG48694.1 from [Pinus taeda](#)
- AFG48695.1 from [Pinus taeda](#)
- AFG48696.1 from [Pinus taeda](#)
- AFG48697.1 from [Pinus taeda](#)
- AFG48698.1 from [Pinus taeda](#)
- AFG48699.1 from [Pinus taeda](#)
- AFG48700.1 from [Pinus taeda](#)
- AFG48703.1 from [Pinus taeda](#)
- AFG48704.1 from [Pinus taeda](#)
- AFG48706.1 from [Pinus taeda](#)
- AFG48707.1 from [Pinus taeda](#)

Sequence similarity is available as [an NCBI BLAST search of AFG48690.1 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: 17
Mass values matched: 4

Protein sequence coverage: 61%

Matched peptides shown in ***bold red***.

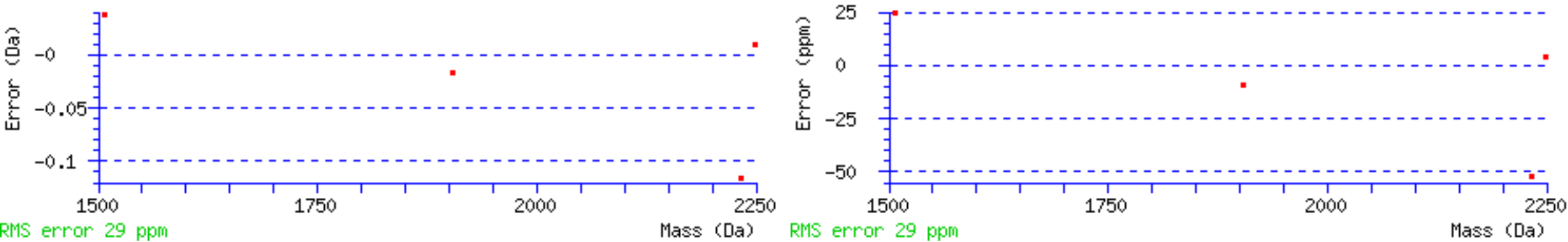
1 EDDAELKAYD **RAAMEEGGGD SVWQRGILMG ERCQPPDFSG IILYDVKGNR**
51 **VPQLPPGSSE LNIHFASL**

Unformatted sequence string: [68 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
12 – 25	1508.6810	1507.6737	1507.6362	0.0376 0	R.AAMEEGGGDSVWQR.G + Oxidation (M)
12 – 32	2249.0529	2248.0456	2248.0365	0.0091 1	R.AAMEEGGGDSVWQRGILMGER.C
48 – 68	2233.0568	2232.0495	2232.1651	-0.1156 1	K.GNRVPQLPPGSSELNIFHASL.-
51 – 68	1905.9896	1904.9823	1904.9996	-0.0173 0	R.VPQLPPGSSELNIFHASL.-

No match to: 842.3678, 870.4180, 876.9173, 1256.6258, 1428.6688, 1495.7463, 1510.6907, 1570.8308, 1707.7269, 1794.8005, 1851.8923, 2211.1045, 2284.1271



LOCUS AFG48690 68 aa linear PLN 02-APR-2012
DEFINITION hypothetical protein CL3131Contig1_04, partial [Pinus taeda].
ACCESSION AFG48690
VERSION AFG48690.1
DBSOURCE accession FJ135545.1
KEYWORDS .
SOURCE Pinus taeda (loblolly pine)
ORGANISM Pinus taeda
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Pinidae; Pinales; Pinaceae; Pinus; Pinus.
REFERENCE 1 (residues 1 to 68)
AUTHORS Neale,D.B., Wegrzyn,J.L., Lee,J.M., Eckert,A.J., Liechty,J.D.,
Stevens,K.A. and Langley,C.H.
TITLE Nucleotide Diversity and Divergence in the Loblolly Pine Gene Space
JOURNAL Unpublished
REFERENCE 2 (residues 1 to 68)
AUTHORS Neale,D.B., Wegrzyn,J.L., Lee,J.M., Eckert,A.J., Liechty,J.D.,
Stevens,K.A. and Langley,C.H.
TITLE Direct Submission
JOURNAL Submitted (12-AUG-2008) Department of Plant Sciences, University of
California, Davis, One Shields Avenue, Davis, CA 95616, USA
COMMENT Method: conceptual translation.
FEATURES
source Location/Qualifiers
1..68
/organism="Pinus taeda"
/isolate="6888"
/db_xref="taxon:3352"
/tissue_type="megagametophyte"
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Protein <1..>68
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CDS 1..68
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/coded_by="FJ135545.1:<1..>207"
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/codon_start=3