

Pentatricopeptide repeat-containing protein At4g18520 (PCMP-A2), Recombinant Protein

Cat *RP08672*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Pentatricopeptide repeat-containing protein At4g18520 (PCMP-A2) , partial

Product Gene Name

PCMP-A2 recombinant protein

Product Synonym Gene Name

PCMP-A2

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

69,275 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

Pentatricopeptide repeat-containing protein

NCBI Accession

NP_193587.4

NCBI GI

145340387

NCBI GenBank Nucleotide

NM_117966.5

NCBI GenID

827584

NCBI Official Full Name

Pentatricopeptide repeat (PPR) superfamily protein

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Pentatricopeptide repeat-containing protein At4g18520 (PCMP-A2), Recombinant Protein

Cat *RP08672*

NCBI Official Symbol

AT4G18520

NCBI Official Synonym Symbols

F28J12.180; F28J12_180; SEEDLING LETHAL 1; SEL1

NCBI Protein Information

Pentatricopeptide repeat (PPR) superfamily protein

UniProt Gene Name

PCMP-A2

UniProt Protein Name

Pentatricopeptide repeat-containing protein At4g18520, chloroplastic

UniProt Synonym Protein Names

Protein PIGMENT-DEFICIENT MUTANT 1

UniProt Primary Accession

Q0WNP3

UniProt Secondary Accession

O49520

UniProt Related Accession

Q0WNP3

UniProt Comments

Required for proper chloroplast development (Ref. 7, PubMed:24144791). Involved in the regulation of plastid gene expression probably through regulation of plastid-encoded polymerase (PEP) dependent chloroplast transcription (PubMed:24144791). Required for RNA editing of several chloroplastic transcripts, especially accD transcripts (PubMed:24144791, PubMed:26123918). Required for processing of the chloroplastic rpoA pre-mRNA (Ref. 6, Ref. 7). Required for the monocistronic rpoA transcript processing from the rpl23-rpl2-rps19-rpl22-rps3-rpl16-rpl14-rps8-rpl36-rps11-rpoA polycistron. Binds the intergenic sequence of rps11-rpoA for rpoA monocistronic RNA cleavage (Ref. 7).

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