

# Type I inositol 1,4,5-trisphosphate 5-phosphatase CVP2 (CVP2), Recombinant Protein

Cat      *RP01830*

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## Species

*Arabidopsis thaliana* (Mouse-ear cress)

## Full Product Name

Recombinant *Arabidopsis thaliana* Type I inositol 1,4,5-trisphosphate 5-phosphatase CVP2 (CVP2) , partial

## Product Gene Name

CVP2 recombinant protein

## Product Synonym Gene Name

CVP2

## 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

57,931 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.

## NCBI Accession #

NP\_001322092.1

## NCBI GI #

1063680525

## NCBI GenBank Nucleotide #

NM\_001331550.1

## NCBI GenID

837048

## NCBI Official Full Name

DNAse I-like superfamily protein

## NCBI Official Symbol

CVP2

## NCBI Official Synonym Symbols

COTYLEDON VASCULAR PATTERN 2; T25N20.12; T25N20\_12

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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## NCBI Protein Information

DNAse I-like superfamily protein

## NCBI Summary

Encodes an inositol polyphosphate 5' phosphatase (5PTase) that is required for the proper recruitment of cells into developing vascular tissue in leaves and cotyledons. It is most similar to Type I 5PTases that are known to cleave a phosphate from IP3 or IP4. *cvp2* mutants have elevated levels of IP3 and are hypersensitive to ABA in seed germination assays.

## UniProt Gene Name

IP5P6

## UniProt Synonym Gene Names

; At5PTase6Curated

## UniProt Protein Name

Type IV inositol polyphosphate 5-phosphatase 6

## UniProt Synonym Protein Names

Protein COTYLEDON VASCULAR PATTERN 2

## UniProt Primary Accession #

Q9LR47

## UniProt Related Accession #

Q9LR47

## UniProt Comments

Has phosphatase activity toward PtdIns(4,5)P2 and PtdIns(3,4,5)P3 (PubMed:19473324). Required for the patterning of procambium and during the differentiation of vascular tissues. Acts before the acquisition of preprocambial identity. Seems to be also involved in the abscisic acid (ABA) signaling pathway (PubMed:10559439, PubMed:15100402). Acts redundantly with CVL1 for maintaining vascular continuity (PubMed:19363154, PubMed:25813544). Regulates phosphoinositide-dependent VAN3 localization (PubMed:19473324).

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