EPIDERMAL PATTERNING FACTOR-like protein 6 (EPFL6), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP05190*

Size *0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 1 mg (E-Coli)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)*

Species
Arabidopsis thaliana (Mouse-ear cress)

Full Product Name
Recombinant Arabidopsis thaliana EPIDERMAL PATTERNING FACTOR-like protein 6 (EPFL6)

Product Gene Name
EPFL6 recombinant protein

Product Synonym Gene Name
EPFL6

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

Sequence
TFTITPTSTS SPYNRNSNSG TLGNFYAKEE GKSTVVIKKT RKIGDRSKEA ELRRILRGLG SSPPRCSSKC GRCTPCKPVH VPVPPGTPVT AEYYPEAWRC KCGNKLYMP

Sequence Positions
48-156, Full length protein

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
14,085 Da

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

Protein Family
EPIDERMAL PATTERNING FACTOR-like protein

NCBI Accession
NP_001189638.1

NCBI GI
334184578

NCBI GenBank Nucleotide
NM_001202709.2

NCBI GeneID

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817587

NCBI Official Full Name
allergen-like protein

NCBI Official Symbol
CHAL

NCBI Official Synonym Symbols
CHALLAH; EPF1-like 6; EPFL6; T9D9.18; T9D9_18

NCBI Protein Information
allergen-like protein

NCBI Summary
Encodes a small, potentially secreted protein that acts as an inhibitor of stomatal production though likely not through direct interaction with the TMM receptor. It is homologous to known stomatal regulators EPF1 and EPF2.

UniProt Gene Name
EPFL6

UniProt Synonym Gene Names
EPF-like protein 6

UniProt Protein Name
EPIDERMAL PATTERNING FACTOR-like protein 6

UniProt Primary Accession
Q1PEY6

UniProt Secondary Accession
O22933

UniProt Related Accession
Q1PEY6

UniProt Comments
Acts primarily as positive regulator of inflorescence growth. Endodermal expression is sufficient for proper inflorescence architecture (PubMed:22474391). Redundantly involved with EPFL4 in procambial development regulation. Acts also as tissue-specific regulator of epidermal pattern. Controls stomatal patterning by repressing stomatal production. TMM (AC Q9SSD1) functions to dampen or block CHAL signaling. Not processed by SDD1 (AC O64495). Acts as growth-regulatory ligand for ERECTA family receptors.

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