EPIDERMAL PATTERNING FACTOR-like protein 4 (EPFL4), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP04619*

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 4 (EPFL4)

Product Gene Name
EPFL4 recombinant protein

Product Synonym Gene Name
EPFL4

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

Sequence
SSIVSADGRW IGQRTGSDLP GGFIRSNKRF GGPGSSPPTC RSKCGKCQPC KPVHVPIQPG LSMPLEYYPE AWRCKCGNKL FMP

Sequence Positions
27-109, 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
12,057 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_001031641.1

NCBI GI
79325113

NCBI GenBank Nucleotide
NM_001036564.4

NCBI GeneID

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3769880

NCBI Official Full Name
EPIDERMAL PATTERNING FACTOR-like protein

NCBI Official Symbol
CLL2

NCBI Official Synonym Symbols
CHALLAH-LIKE 2; EPFL4; epidermal patterning factor like 4

NCBI Protein Information
EPIDERMAL PATTERNING FACTOR-like protein

UniProt Gene Name
EPFL4

UniProt Synonym Gene Names
EPF-like protein 4

UniProt Protein Name
EPIDERMAL PATTERNING FACTOR-like protein 4

UniProt Primary Accession
Q2V3I3

UniProt Related Accession
Q2V3I3

UniProt Comments
Acts primarily as positive regulator of inflorescence growth. Endodermal expression is sufficient for proper inflorescence architecture (PubMed:22474391). Redundantly involved with EPFL6 in procambial development regulation. Controls stomatal patterning. Mediates stomatal development inhibition. TMM (AC Q9SSD1) functions to dampen or block CLL2 signaling. Acts as growth-regulatory ligand for ERECTA family receptors.

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