

Casparian strip membrane protein ARALYDRAFT_901635 (ARALYDRAFT_901635), Recombinant Protein

Cat *RP00357*

Species

Arabidopsis lyrata subsp. *lyrata* (Lyre-leaved rock-cress)

Full Product Name

Recombinant *Arabidopsis lyrata* subsp. *lyrata* Casparian strip membrane protein ARALYDRAFT_901635 (ARALYDRAFT_901635)

Product Synonym Names

Recombinant Casparian strip membrane protein ARALYDRAFT_901635 (ARALYDRAFT_901635); Casparian strip membrane protein ARALYDRAFT_901635

Product Gene Name

ARALYDRAFT_901635 recombinant protein

Purity

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

Sequence

MDIEKAASRR EEEPIVQRP KLDKGKGKAH VFAPPMNYNR IMDKHKQEKV SAAGWKRGVA IFDFVLRLIA
AITAMAAAANK MATTEETLPF FTQFLQFQAE YTDLPTMSSF VIVNSIVGGY LTLSPFSIV CILRPLAVPP
RLFLIICDTA MMGLTMMAAS ASAAIVYLAH NGNSSSNWLP VCQQFGDFCQ GTSGAVVASF IAATLLMFLV
ILSAFALKRS T

Sequence Positions

1-221

Chromosome Location

chromosome: Unknown

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

24,107 Da

Storage

Store at -20°C. For extended storage, store at -20 or -80°C.

Protein Family

Casparian strip membrane protein

NCBI Accession

XP_002880911.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GI

297826057

NCBI GenBank Nucleotide

XM_002880865.1

NCBI GeneID

9315151

NCBI Official Full Name

integral membrane family protein

NCBI Official Symbol

ARALYDRAFT_901635

NCBI Protein Information

integral membrane family protein

UniProt Protein Name

Casparian strip membrane protein ARALYDRAFT_901635

UniProt Entry Name

CASP3_ARALL

UniProt Primary Accession

D7LGW9

UniProt Comments

Function: Regulates membrane-cell wall junctions and localised cell wall deposition. Required for establishment of the Casparian strip membrane domain (CSD) and the subsequent formation of Casparian strips, a cell wall modification of the root endodermis that determines an apoplastic barrier between the intraorganismal apoplasm and the extraorganismal apoplasm and prevents lateral diffusion By similarity. Subunit structure: Homodimer and heterodimers By similarity. Subcellular location: Cell membrane; Multi-pass membrane protein By similarity. Note: Very restricted localization following a belt shape within the plasma membrane which coincides with the position of the Casparian strip membrane domain in the root endodermis By similarity. Sequence similarities: Belongs to the Casparian strip membrane proteins (CASP) family.

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