

Casparian strip membrane protein ARALYDRAFT_660474 (ARALYDRAFT_660474), Recombinant Protein

Cat *RP00356*

Species

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

Full Product Name

Recombinant *Arabidopsis lyrata* subsp. *lyrata* Casparian strip membrane protein ARALYDRAFT_660474 (ARALYDRAFT_660474)

Product Synonym Names

Recombinant Casparian strip membrane protein ARALYDRAFT_660474 (ARALYDRAFT_660474); Casparian strip membrane protein ARALYDRAFT_660474

Product Gene Name

ARALYDRAFT_660474 recombinant protein

Purity

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

Sequence

MKSDSIAVDV PAESSSAIKG KAPLLGLARD HTGSGGYKRG LSIFDFLLRL AAIVAALAAA ATMGTSDETL
PFFTQFLQFE ASYDDLPTFQ FFVVAIAIVT GYLVLSLPFS VVTIVRPLAV APRLLLLVLD TAALALDTAA
ASAAAAIVYL AHNGTNTNTNW LPICQQFGDF CQKTSGAVVS AFASVTFLAI LVVISGVSLK RP

Sequence Positions

1-202

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

21,114 Da

Storage

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

Protein Family

Casparian strip membrane protein

NCBI Accession

XP_002871203.1

NCBI GI

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Casparian strip membrane protein ARALYDRAFT_660474 (ARALYDRAFT_660474), Recombinant Protein

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297806639

NCBI GenBank Nucleotide

XM_002871157.1

NCBI GeneID

9307273

NCBI Official Full Name

predicted protein

NCBI Official Symbol

ARALYDRAFT_660474

NCBI Protein Information

hypothetical protein

UniProt Protein Name

Casparian strip membrane protein ARALYDRAFT_660474

UniProt Entry Name

CASP4_ARALL

UniProt Primary Accession

D7LZ50

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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