Casparian strip membrane protein VIT_06s0080g00840 (VIT_06s0080g00840) (LOC100256998), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP18765*

Species
Vitis vinifera (Grape)

Full Product Name
Recombinant Vitis vinifera Casparian strip membrane protein VIT_06s0080g00840 (VIT_06s0080g00840)

Product Synonym Names
Recombinant Casparian strip membrane protein VIT_06s0080g00840 (VIT_06s0080g00840); Casparian strip membrane protein VIT_06s0080g00840

Product Gene Name
LOC100256998 recombinant protein

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

Sequence
MKSTGEATAI NIGETKSASA TTVATTKAIQ HPKAGLKRGL AIFDFILRLS AIGAALAATT TMGTTDQTLP FFTQFFQFQA SYDDLPAFSF FVIANAIASG YLFLSLPFSI VCIVRPHAMG ARLLLVICDT VMVALTIAAA AAAAAIVYLA HNGNSNANWV AICQQFDDFC QSVSGAVVAS FIAAVLFMLM IVLSAFSLRK H

Sequence Positions
1-201

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

Host
E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight
21,226 Da

Storage
Store at -20℃. For extended storage, store at -20 or -80℃.

NCBI Accession
XP_002273638.1

NCBI GI
225464888

NCBI GenBank Nucleotide
XM_002273602.2

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Cat *RP18765*

NCBI GeneID
100256998

NCBI Official Full Name
casparian strip membrane protein VIT_06s0080g00840

NCBI Official Symbol
LOC100256998

NCBI Protein Information
UPF0497 membrane protein 1

UniProt Protein Name
Casparian strip membrane protein VIT_06s0080g00840

UniProt Entry Name
CASP1_VITVI

UniProt Primary Accession
A7QF77

UniProt Related Accession
A7QF77

UniProt Comments
Function: Regulates membrane-cell wall junctions and localized 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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