

# Casparian strip membrane protein RCOM\_1282030 (LOC8263304), Recombinant Protein

Cat *RP19128*

Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

## Species

*Ricinus communis* (Castor bean)

## Full Product Name

Recombinant *Ricinus communis* Casparian strip membrane protein RCOM\_1282030 (RCOM\_1282030)

## Product Gene Name

LOC8263304 recombinant protein

## Purity

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

## Sequence

MDSEKTGEAK ITIQEPKAAD PKGKGIADAP PPPVVVTTAK AIQKLPRGGW KKGVAIFDFV VRLCAIATGL  
AATGIMGTTE QTLPFFTQFF QFHAEYNDLP TFMFFVFANG IASGYLILSL PFSIVCIVRP LAIVPRLLLI  
IFDVTVMALT IAAASAAAI VYLAHNGNSN ANWNAICQQF NDFCQQTSTA VVASFITAAM LTFLIVLSAF ALKRN

## Sequence Positions

1-215aa; full length protein

## Format

Liquid containing glycerol

## Host

Cell Free Expression

## Molecular Weight

23,037 Da

## Storage

Store at -20°C, for extended storage, conserve at -20°C or -80°C.

Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## NCBI Accession #

XP\_002523839.1

## NCBI GI #

255565699

## NCBI GenBank Nucleotide #

XM\_002523793.2

## NCBI GeneID

8263304

## NCBI Official Full Name

casparian strip membrane protein 3

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

# Casparian strip membrane protein RCOM\_1282030 (LOC8263304), Recombinant Protein

Cat *RP19128*

Size *0.02 mg/ 0.1 mg/ 5x0.1 mg*

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## NCBI Official Symbol

LOC8263304

## NCBI Protein Information

casparian strip membrane protein 3; conserved hypothetical protein

## UniProt Gene Name

RCOM\_1282030

## UniProt Synonym Gene Names

RcCASP3

## UniProt Protein Name

Casparian strip membrane protein 3

## UniProt Entry Name

CASP3\_RICCO

## UniProt Primary Accession #

B9SCX0

## UniProt Comments

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 apoplast and the extraorganismal apoplast and prevents lateral diffusion.

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