GLABRA2 expression modulator (GEM), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP00389*

Size *0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1 mg (Baculovirus)/ 1 mg (E-Coli)/ 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 GLABRA2 expression modulator (GEM)

Product Gene Name
GEM recombinant protein

Product Synonym Gene Name
GEM

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

Sequence
MEPPKGDTVV KTEVPVKDPS LSVVDSKTKG VEDANTEIAL SDEVEIETKG SDSTPVKAPS RTSSGSKKSV HWSPELVSGS QEPDQKAASS SSAGSNPYIA RSPAETSDAS LKDTMETVKG VLGRWGKRVA EAAKKTESLA GNTWQHLRTA PSFADAAMGR IAQSTKVFAE GGYEKIFRQT FETDPEEQLL NSFACYLSTS AGPVMGVLYI SSAKLAYCSD NPLSYKNGDQ TEWSYYKVVI PLHQLKAVNP SASIVNPAEK YIQVISVDNH EFWFMGFLNY DGAVTSLQDS LQAGALRSV

Sequence Positions
1-299, 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
26,652 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
GTP-binding protein

NCBI Accession
NP_565538.1

NCBI GI
18399985

NCBI GenBank Nucleotide
NM_127813.3

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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https://www.cd-biosciences.com/plant-protein/

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NCBI GeneID
816780

NCBI Official Full Name
GRAM domain family protein

NCBI Official Symbol
GEM

NCBI Official Synonym Symbols
GL2-EXPRESSION MODULATOR

NCBI Protein Information
GRAM domain family protein

NCBI Summary
Encodes GL2-expression modulator (GEM). Involved in the spatial control of cell division, patterning and differentiation of Arabidopsis root epidermal cells. GEM interacts with CDT1, a DNA replication protein and TTG1 (TRANSPARENT TESTA GLABRA1), a WD40-repeat protein involved in GL2-dependent cell fate decision. GEM seems to participate in the maintenance of a repressor histone H3 epigenetics status of the GL2 and CPC (CAPRICE) promoters.

UniProt Gene Name
GEM

UniProt Protein Name
GLABRA2 expression modulator

UniProt Primary Accession
Q8S8F8

UniProt Secondary Accession
Q3EBW7; Q8GWY9; Q8LBI8

UniProt Related Accession
Q8S8F8

UniProt Comments
Involved in the spatial control of cell division, patterning and differentiation of Arabidopsis root epidermal cells. Could be part of a complex that negatively modulates GLABRA2 and CAPRICE expression via the maintenance of a repressor histone H3 epigenetics status of the GL2 and CPC promoters.

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