

Golgin candidate 2 (GC2), Recombinant Protein

Cat *RP00359*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* Golgin candidate 2 (GC2)

Product Gene Name

GC2 recombinant protein

Product Synonym Gene Name

Recombinant Golgin candidate 2 (GC2); Golgin candidate 2; AtGC2

Purity

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

Sequence

MANWISSKLK AAETILQQLD QQAADSLRKD EKSETHDEVF ETSPKSGSSP VSLKDQLRKK TYEGSDSGSG
SQRNSTEMQKP SYLSSSKKVR KPDQSHERTS APSQSLTQDN TKLTDNDWTE LLSTPNQRTS TSTSRSPGGT
SAIRGLKKDG KRHGNLGKNP LVSDGKKSSS SNVNSRGRP QKQTNKEPSD KEVSSPSDAD MKNRNAPRDI
FVNSTHKESE KDVSGKTPPL DDSRRSANET LPRETSPSVG KRDGRESRRS SVWKGQVREE VSQSNVSDGL
TRKESSLSSD ESESDYESDS STDSEERERQR EERRRRRERV FAEKVATKAV AVIKERENMV ARLEGEKLSL
EKIVEERAKQ QAQEAELQT NMMETLEAAD LEKQKHNNTR MEVLTRLAAGL EAENAELTRS LAAGQKKLET
QIDQVAVLKQ QVELKESTLE ELKRNTFNIG GRGTLKQLD TSRGDKFEHQ MLEAEISLLT DKIGRLQDKA
TKLEADIEMM RKELEETPEV EIELKRRLNQ LTDHLIQKS QVEALSSEKA TILFRIEAVS RLIEENKGMS
ATEASSQDLE AGDWELSGSK FKPAFQDKIR SGKKHLGWLV MQLNAIFISG TVFLRRNPTA KIWAVVYLVC
LHLWVLYILL SHSDASSSGE LRSGAVISLE NFSNSSLQ

Sequence Positions

1-668

Chromosome Location

Chromosome: 1; NC_003070.9 (6257851..6261457, complement). Location: chromosome: 1

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

74,787 Da

Storage

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

Protein Family

Golgin candidate

NCBI Accession

NP_173257.2

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GI

30685736

NCBI GenBank Nucleotide

NM_101679.3

NCBI GeneID

838398

NCBI Official Full Name

golgin candidate 2

NCBI Official Symbol

GC2

NCBI Official Synonym Symbols

golgin candidate 2; T10F20.19

NCBI Protein Information

golgin candidate 2

NCBI Summary

This gene is predicted to encode a protein that functions as a Golgi apparatus structural component known as a golgin in mammals and yeast. A fluorescently-tagged version of GC2 co-localizes with Golgi markers, and this localization appears to be replicated using the C-terminal (508 668 aa) portion of the protein.

UniProt Gene Name

GC2

UniProt Synonym Gene Names

AtGC2

UniProt Protein Name

Golgin candidate 2

UniProt Entry Name

GOGC2_ARATH

UniProt Primary Accession

B0F9L7

UniProt Secondary Accession

Q9LM30; Q9LMR9

UniProt Related Accession

B0F9L7

UniProt Comments

Function: Golgi matrix protein playing a role in tethering of vesicles to Golgi membranes and in maintaining the overall structure of the Golgi apparatus By similarity.Subcellular location: Golgi apparatus membrane; Multi-pass

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membrane protein. Note: Probably located to cisternal rims of cis or medial Golgi. Domain: The C-terminal domain (508-668) is necessary and sufficient for Golgi targeting. Sequence caution: The sequence AAF78387.1 differs from that shown. Reason: Erroneous gene model prediction. The sequence AAF97835.1 differs from that shown. Reason: Erroneous gene model prediction.

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