Protein GIGANTEA (GI) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protein GIGANTEA (GI), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Protein GIGANTEA (GI) , partial
Product Gene Name	GI recombinant protein
Product Synonym Gene Name	GI
Sequence	PALLFPPLSQ VEGVEIQHAP IGGYSSNYRK QIEVPAAEAT IEATAQGIAS MLCAHGPEVE WRICTIWEAA YGLIPLNSSA VDLPEIIVAT PLQPPILSWN LYIPLLKVLE YLPRGSPSEA CLMKIFVATV ETILSRTFPP ESSRELTRKA RSSFTTRSAT KNLAMSELRA MVHALFLESC AGVELASRLL FVVLTVCVSH EAQSSGSKRP RSEYASTTEN IEANQPVSNN QTANRKSRNV KGQGPVAAFD SYVLAAVCAL ACEVQLYPMI SGGGNFSNSA VAGTITKPVK INGSSKEYGA GIDSAISHTR RILAILEALF SLKPSSVGTP WSYSSSEIVA AAMVAAHISE LFRRSKALTH ALSGLMRCKW DKEIHKRASS L
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	127,876 Da
Sequence Positions	400-780. Partial
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9SQI2
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GI recombinant protein	MBS1332163 is a recombinant protein targeting GI. Also known as Recombinant Arabidopsis thaliana Protein GIGANTEA (GI) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of GI recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GI. It may not necessarily be applicable to this product.

NCBI GI #	18395159
NCBI GeneID	838883
NCBI Accession #	NP_564180.1
UniProt Primary Accession #	Q9SQI2

UniProt Secondary Accession #	O64381; O80545; Q9S7N0
UniProt Related Accession #	Q9SQI2
GenBank Nucleotide #	NM_102124.3
NCBI Official Full Name	gigantea protein (GI)
NCBI Official Symbol	GI
NCBI Official Synonym Symbols	FB; GIGANTEA; T22J18.6; T22J18_6
UniProt Protein Name	Protein GIGANTEA
Protein Family	Envelope glycoprotein
UniProt Gene Name	GI
NCBI Protein Information	gigantea protein (GI)
NCBI Summary for GI	Together with CONSTANTS (CO) and FLOWERING LOCUS T (FT), GIGANTEA promotes flowering under long days in a circadian clock-controlled flowering pathway. GI acts earlier than CO and FT in the pathway by increasing CO and FT mRNA abundance. Located in the nucleus. Regulates several developmental processes, including photoperiod-mediated flowering, phytochrome B signaling, circadian clock, carbohydrate metabolism, and cold stress response. The gene's transcription is controlled by the circadian clock and it is post-transcriptionally regulated by light and dark. Forms a complex with FKF1 on the CO promoter to regulate CO expression.
UniProt Comments for GI	Involved in regulation of circadian rhythm and photoperiodic flowering. May play a role in maintenance of circadian amplitude and period length. Is involved in phytochrome B signaling. Stabilizes ADO3 and the circadian photoreceptor ADO1/ZTL. Regulates 'CONSTANS' (CO) in the long-day flowering pathway by modulating the ADO3-dependent protein stability of CDF1 and CDF2, but is not essential to activate CO transcription. Regulates, via the microRNA miR172, a CO-independent pathway that promotes photoperiodic flowering by inducing 'FLOWERING LOCUS T'.
Research Articles on GI	**1.** ABA-dependent control of signalling enables drought escape via up-regulation of FLOWERING LOCUS T
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/protein-gigantea-gi/1332163