G-Box-Binding Factor 4 (GBF4) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	G-box-binding factor 4 (GBF4), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana G-box-binding factor 4 (GBF4)
Product Gene Name	GBF4 recombinant protein
Sequence	MASFKLMSSS NSDLSRRNSS SASSSPSIRS SHHLRPNPHA DHSRISFAYG GGVNDYTFAS DSKPFEMAID VDRSIGDRNS VNNGKSVDDV WKEIVSGEQK TIMMKEEEPE DIMTLEDFLA KAEMDEGASD EIDVKIPTER LNNDGSYTFD FPMQRHSSFQ MVEGSMGGGV TRGKRGRVMM EAMDKAAAQR QKRMIKNRES AARSRERKQA YQVELETLAA KLEEENEQLL KEIEESTKER YKKLMEVLIP VDEKPRPPSR PLSRSHSLEW
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	30,586 Da
Sequence Positions	1-270, Full length protein
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 P42777
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for GBF4 recombinant protein	MBS1060915 is a recombinant protein targeting GBF4. Also known as Recombinant Arabidopsis thaliana G-box-binding factor 4 (GBF4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of GBF4 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 GBF4. It may not necessarily be applicable to this product.

NCBI GI #	15219608
NCBI GeneID	839356
NCBI Accession #	NP_171893.1
UniProt Primary Accession #	P42777
UniProt Related Accession #	P42777
GenBank Nucleotide #	NM_100278.3

NCBI Official Full Name	G-box binding factor 4
NCBI Official Symbol	GBF4
NCBI Official Synonym Symbols	F21M11.10; F21M11_10; G-box binding factor 4
UniProt Protein Name	G-box-binding factor 4
UniProt Synonym Protein Names	bZIP transcription factor 40; AtbZIP40
Protein Family	G-box-binding factor
UniProt Gene Name	GBF4
UniProt Synonym Gene Names	BZIP40; AtbZIP40
NCBI Protein Information	G-box binding factor 4
NCBI Summary for GBF4	encodes a basic leucine zipper G-box binding factor that can bind to G-box motifs only as heterodimers with GBF2 or GBF3. A single amino acid change can confer G-box binding as homodimers.
UniProt Comments for GBF4	Binds to the G-box motif (5'-CCACGTGG-3') of the rbcS-1A gene promoter. G-box and G-box-like motifs are cis-acting elements defined in promoters of certain plant genes which are regulated by such diverse stimuli as light-induction or hormone control.
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