Ethylene-Responsive Transcription Factor ERF022 (ERF022) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ethylene-responsive transcription factor ERF022 (ERF022), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Ethylene-responsive transcription factor ERF022 (ERF022)
Product Gene Name	ERF022 recombinant protein
Product Synonym Gene Name	ERF022
Sequence	MENTYVGQRD YRFNVNQLSY RGIRRRKWGK WVSEIREPGK KTRIWLGSYE TAEMAAAAYD AAALHLRGRG TNLNFPELVD SFPRPESSSS EHIQAAAQDA ALMFKPGRLS EPALESGQGL SRVGLSPDQI QAINESPLDS PRMGWMQDLE VADYEELYGQ FFGQHDRDEF FEMQQFQSIW NSNN
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	21,086 Da
Sequence Positions	1-184, 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 Q9LQ28
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ERF022 recombinant protein	MBS1348367 is a recombinant protein targeting ERF022. Also known as Recombinant Arabidopsis thaliana Ethylene-responsive transcription factor ERF022 (ERF022). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ERF022 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 ERF022. It may not necessarily be applicable to this product.

NCBI GI #	15217641
NCBI GeneID	840267
NCBI Accession #	NP_174636.1
UniProt Primary Accession #	Q9LQ28

UniProt Related Accession #	Q9LQ28
GenBank Nucleotide #	NM_103095.4
NCBI Official Full Name	Integrase-type DNA-binding superfamily protein
NCBI Official Symbol	AT1G33760
NCBI Official Synonym Symbols	F14M2.12; F14M2_12
UniProt Protein Name	Ethylene-responsive transcription factor ERF022
Protein Family	Ethylene-responsive transcription factor
UniProt Gene Name	ERF022
NCBI Protein Information	Integrase-type DNA-binding superfamily protein
NCBI Summary for ERF022	encodes a member of the DREB subfamily A-4 of ERF/AP2 transcription factor family. The protein contains one AP2 domain. There are 17 members in this subfamily including TINY.
UniProt Comments for ERF022	Probably acts as a transcriptional activator. Binds to the GCC-box pathogenesis-related promoter element. May be involved in the regulation of gene expression by stress factors and by components of stress signal transduction pathways ().
Research Articles on ERF022	**1.** ERF022 controls the genes that are involved in the biosynthesis (ACS7) and signalling (ERF1, ETR1) of ethylene and indicate that ERF022 is a new regulatory element in ethylene-related responses that negatively control the ethylene content and perception.
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