Ethylene-Responsive Transcription Factor 4 (ERF4) Nicotiana Tabacum Recombinant Protein

PRODUCT OVERVIEW

Product Name	Ethylene-responsive transcription factor 4 (ERF4), Recombinant Protein
Full Product Name	Recombinant Nicotiana tabacum Ethylene-responsive transcription factor 4 (ERF4)
Product Gene Name	ERF4 recombinant protein
Product Synonym Gene Name	ERF4
Sequence	MAVKNKVSNG NLKGGNVKTD GVKEVHYRGV RKRPWGRYAA EIRDPGKKSR VWLGTFDTAE EAAKAYDTAA REFRGPKAKT NFPSPTENQS PSHSSTVESS SGENGVHAPP HAPLELDLTR RLGSVAADGG DNCRRSGEVG YPIFHQQPTV AVLPNGQPVL LFDSLWRAGV VNRPQPYHVT PMGFNGVNAG VGPTVSDSSS AVEENQYDGK RGIDLDLNLA PPMEF
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	24,262 Da
Sequence Positions	1-225, 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 Q40477
Species	Nicotiana tabacum (Common tobacco)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ERF4 recombinant protein	MBS1283923 is a recombinant protein targeting ERF4. Also known as Recombinant Nicotiana tabacum Ethylene-responsive transcription factor 4 (ERF4). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of ERF4 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 ERF4. It may not necessarily be applicable to this product.

NCBI GI #	1027855209
NCBI GeneID	107778042
NCBI Accession #	NP_001312182.1
UniProt Primary Accession #	Q40477

UniProt Related Accession #	Q40477
GenBank Nucleotide #	NM_001325253.1
NCBI Official Full Name	ethylene-responsive transcription factor 4
NCBI Official Symbol	LOC107778042
NCBI Official Synonym Symbols	ERF3; ERF4; ERF-3; NtERF3; EREBP-3
UniProt Protein Name	Ethylene-responsive transcription factor 4
UniProt Synonym Protein Names	Ethylene-responsive element-binding factor 3; EREBP-3; Ethylene-responsive element-binding factor 4 homolog; NtERF3
Protein Family	Ethylene-responsive transcription factor
UniProt Gene Name	ERF4
UniProt Synonym Gene Names	ERF-3; ERF3; EREBP-3
NCBI Protein Information	ethylene-responsive transcription factor 4
UniProt Comments for ERF4	Acts as a transcriptional repressor. Binds to the GCC-box pathogenesis-related promoter element. Involved in the regulation of gene expression by stress factors and by components of stress signal transduction pathways mediated by ethylene, that seems to depend on a protein kinase/phosphatase cascade, and to be influenced by methyl-jasmonate. May regulate other AtERFs ().
Research Articles on ERF4	**1.** NtERF3 functions downstream of NtSIPK/NtWIPK and NtWRKY1 in a cell death signalling pathway, with some feedback regulation.
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