

Transcription factor TGA1 (TGA1), Recombinant Protein

Cat RP02088

Size 0.02 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (E-Coli)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)
Species Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana Transcription factor TGA1 (TGA1)

Product Gene Name

TGA1 recombinant protein

Product Synonym Gene Name

TGA1

Purity

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

Sequence

MNSTSTHFVP PRRVGIYEPV HQFGMWGESF KSNISNGTMN TPNHIIIPNN QKLDNNVSED TSHGTAGTPH
MFDQEASTSR HPDKIQRRRLA QNREAARKSR LRKKAYVQQL ETSRLKLIQL EQELDRARQQ GFYVGNIGDT
NSLGFSETMN PGIAAFEMEY GHWVEEQNRQ ICELRTVLHG HINDIELRSL VENAMKHIFE LFRMKSSAAK
ADVFFVMMSGM WRTSAERFFL WIGGFRPSDL LKVLLPHFDV LTDQQLDVC NLKQSCQQAE DALTGMEKL
QHTLADCVAA GQLGEGSYIP QVNSAMDRLE ALVSFVNQAD HLRHETLQQM YRILTTRQAA RGLLALGEYF
QRLRALSSSW ATRHREPT

Sequence Positions

1-368, Full length protein

Format

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

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

42,064 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

Transcription factor

NCBI Accession

NP_001032147.1

NCBI GI

79332347

NCBI GenBank Nucleotide

NM_001037070.1

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI GeneID

836646

NCBI Official Full Name

bZIP transcription factor family protein

NCBI Official Symbol

TGA1

NCBI Official Synonym Symbols

MQN23.15; MQN23_15; TGACG sequence-specific binding protein 1

NCBI Protein Information

bZIP transcription factor family protein

NCBI Summary

Encodes TGA1, a redox-controlled regulator of systemic acquired resistance. TGA1 targets the activation sequence-1 (as-1) element of the promoter region of defense proteins. TGA1 are S-nitrosylated.

UniProt Gene Name

TGA1

UniProt Synonym Gene Names

BZIP47; AtbZIP47

UniProt Protein Name

Transcription factor TGA1

UniProt Synonym Protein Names

DNA-binding protein TGA1a-like protein; bZIP transcription factor 47; AtbZIP47

UniProt Primary Accession

Q39237

UniProt Secondary Accession

Q8LBQ9; Q9FJP4

UniProt Related Accession

Q39237

UniProt Comments

Transcriptional activator that binds specifically to the DNA sequence 5'-TGACG-3'. Recognizes ocs elements like the as-1 motif of the cauliflower mosaic virus 35S promoter. Binding to the as-1-like cis elements mediate auxin- and salicylic acid-inducible transcription. May be involved in the induction of the systemic acquired resistance (SAR) via its interaction with NPR1. Could also bind to the Hex-motif (5'-TGACGTGG-3') another cis-acting element found in plant histone promoters.

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