

AP2/ERF and B3 domain-containing transcription repressor TEM1 (TEM1), Recombinant Protein

Cat RP01161

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^{Cell}

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant Arabidopsis thaliana AP2/ERF and B3 domain-containing transcription repressor TEM1 (TEM1)

Product Gene Name

TEM1 recombinant protein

Product Synonym Gene Name

TEM1

Purity

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

Sequence

MEYSCVDDSS TTSELSIST TPKPTTTTEK KLSSPPATSM RLYRMGSGGS SVVLDSSENGV ETESRKLPSS
KYKGVVPQPN GRWGAQIYEK HQRVWLGTFN EEEEEASSYD IAVRRFRGRD AVTNFKSQVD GNDAESAFLD
AHSKAEIVDM LRKHTYADEF EQSRRKFVNG DGKRSGLETA TYGNDAVLRA REVLFEKTVT PSDVGKLNRL
VIPKQHAEKH FPLPAMTTAM GMNPSPTKGV LINLEDRTGK VWRFRYSYWN SSQSYVLTKG WSRFVKEKNL
RAGDVVCFER STGPDRLQYI HWKVRSSPVQ TVVRLFGVNI FNVSNEKPND VAVECVGKKR SREDDLFSLG
CSKKQAIINI L

Sequence Positions

1-361, 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

40,558 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

AP2/ERF and B3 domain-containing transcription repressor

NCBI Accession

NP_173927.1

NCBI GI

15222622

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GenBank Nucleotide

NM_102367.3

NCBI GeneID

839143

NCBI Official Full Name

AP2/B3 transcription factor family protein

NCBI Official Symbol

TEM1

NCBI Official Synonym Symbols

AtTEM1; EDF1; ETHYLENE RESPONSE DNA BINDING FACTOR 1; F2J7.3; F2J7_3; TEMPRANILLO 1

NCBI Protein Information

AP2/B3 transcription factor family protein

NCBI Summary

Encodes a member of the RAV transcription factor family that contains AP2 and B3 binding domains. Involved in the regulation of flowering under long days. Loss of function results in early flowering. Overexpression causes late flowering and repression of expression of FT. Novel transcriptional regulator involved in ethylene signaling. Promoter bound by EIN3. EDF1 in turn, binds to promoter elements in ethylene responsive genes.

UniProt Gene Name

TEM1

UniProt Protein Name

AP2/ERF and B3 domain-containing transcription repressor TEM1

UniProt Synonym Protein Names

Protein TEMPRANILLO 1; RAV1-like ethylene-responsive transcription factor TEM1

UniProt Primary Accession

Q9C6M5

UniProt Related Accession

Q9C6M5

UniProt Comments

Transcriptional repressor of flowering time on long day plants. Acts directly on FT expression by binding 5'-CAACA-3' and 5'-CACCTG-3 sequences. Functionally redundant with TEM2.

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