

Transcription factor TT2 (TT2), Recombinant Protein

Cat RP00437

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 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 TT2 (TT2)

Product Gene Name

TT2 recombinant protein

Product Synonym Gene Name

TT2

Purity

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

Sequence

MGKRATTSVR REELNRGAWT DHEDKILRDY ITTHGEGKWS TLPNQAGLKR CGKSCRLRWK NYLRPGIKRG
NISSDEEELI IRLHNLLGNR WSLIAGRPLG RTDNEIKNHWS NSNLKRKLPK TQTKQPKRIK HSTNNENNVC
VIRTKAIRCS KTLFSDLSL QKKSSTSPPL LKEQEMDQGG SSMGLDFD FDRHSEFHF PDLMDFDGLD
CGNVTSLVSS NEILGELVPA QGNLDLNRPF TSCHHRGDDE DWLRDFTC

Sequence Positions

1-258, 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

29,611 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_198405.1

NCBI GI

15238535

NCBI GenBank Nucleotide

NM_122946.3

NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(Yeast)/ 0.02 mg (Baculovirus)/ 0.02 mg (Mammalian-Cell)/ 0.1

833520 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg
(Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-
Cell)

NCBI Official Full Name

Duplicated homeodomain-like superfamily protein

NCBI Official Symbol

TT2

NCBI Official Synonym Symbols

ATMYB123; ATTT2; MOK9.18; MOK9_18; MYB DOMAIN PROTEIN 123; MYB123; TRANSPARENT TESTA 2

NCBI Protein Information

Duplicated homeodomain-like superfamily protein

NCBI Summary

TT2 encodes a R2R3 MYB domain putative transcription factor that acts as a key determinant in the proanthocyanidin accumulation of developing seed. It is thought that a ternary complex composed of TT2, TT8 and TTG1 is necessary for correct expression of BAN in seed endothelium.

UniProt Gene Name

TT2

UniProt Synonym Gene Names

MYB123; AtMYB123

UniProt Protein Name

Transcription factor TT2

UniProt Synonym Protein Names

Myb-related protein 123; AtMYB123; Myb-related transcription factor LBM2-like; Protein TRANSPARENT TESTA 2

UniProt Primary Accession

Q9FJA2

UniProt Secondary Accession

Q53YP9; A0MFJ2

UniProt Related Accession

Q9FJA2

UniProt Comments

Transcription activator, when associated with BHLH2/EGL3/MYC146, BHLH12/MYC1, or BHLH42/TT8. Involved in the control of flavonoid late metabolism in developing siliques. Plays a key role in determining the tissue-specific activation of leucoanthocyanidin reductase (BANYULS).

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