

Transcription factor MYB98 (MYB98), Recombinant Protein

Cat RP04637

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

Full Product Name

Recombinant Arabidopsis thaliana Transcription factor MYB98 (MYB98)

Product Gene Name

MYB98 recombinant protein

Product Synonym Gene Name

MYB98

Purity

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

Sequence

MENFVDENG F ASLNQNI FTR DQEHMKEED F PFEVVDQSKP TSFLQDFHHL DHDHQFDHHH HHGSSSSHPL
LSVQTTSSCI NNAPFEHCSY QENMVDFYET KPNLMNHHHF QAVENSYFTR NHHHHQEINL VDEHDDPMDL
EQNNMMMMRM IPFDYPPTET FKPMNFVMPD EISCVSADND CYRATSFNKT KPFLTRKLSS SSSSSSWKET
KKSTLVKGQW TAEEDRVLIQ LVEKYGLRWK SHIAQVLPGR IGKQCRERWH NHLRPDIKKE TWSEEDRVL
IEFHKEIGNK WAEIAKRLPG RTENSIKNHW NATKRRQFSK RKCRSKYPRP SLLQDYIKSL NMGALMASSV
PARGRRRESN NKKKD VVVAV EEKKKEEEVY GQDRIVPECV FTDDFGFNEK LLEEGCSIDS LLDDIPQPD I
DAFVHGL

Sequence Positions

1-427, 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

50,116 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_193612.1

NCBI GI

15234013

NCBI GenBank Nucleotide

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GeneID

827611

NCBI Official Full Name

myb domain protein 98

NCBI Official Symbol

MYB98

NCBI Official Synonym Symbols

AtMYB98; F28A21.180; F28A21_180; myb domain protein 98

NCBI Protein Information

myb domain protein 98

NCBI Summary

MYB98 is a member of the R2R3-MYB gene family, the members of which likely encode transcription factors. Within an ovule, MYB98 is expressed exclusively in the synergid cells, and mutations in this gene affect the female gametophyte specifically. myb98 female gametophytes are affected in two unique features of the synergid cell, pollen tube guidance and the filiform apparatus, but are otherwise normal. This suggests that MYB98 controls the development of specific features within the synergid cell during female gametophyte development. MYB98 also is expressed in trichomes and endosperm. Homozygous myb98 mutants exhibit no sporophytic defects, including trichome and endosperm defects.

UniProt Gene Name

MYB98

UniProt Synonym Gene Names

AtMYB98

UniProt Protein Name

Transcription factor MYB98

UniProt Synonym Protein Names

Myb-related protein 98

UniProt Primary Accession

Q9S7L2

UniProt Secondary Accession

Q3HSE6; A0MF81

UniProt Related Accession

Q9S7L2

UniProt Comments

Transcription factor that binds to the motif 5'-GTAACNT-3' in the promoter of target genes (e.g. DD11 and DD18) and promotes their expression within synergid cells (e.g. in the filiform apparatus) in ovules (PubMed:16214903, PubMed:17693534, PubMed:18410484, PubMed:17937500). Required for the formation of the filiform apparatus

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during synergic cell differentiation in the female gametophyte (PubMed:16214903). Involved in pollen tube
guidance to the micropyle (PubMed:16214903, PubMed:19787800, PubMed:28093426).

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