

# Transcription factor MYB28 (MYB28), Recombinant Protein

Cat      *RP05077*

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 MYB28 (MYB28)

## Product Gene Name

MYB28 recombinant protein

## Product Synonym Gene Name

MYB28

## Purity

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

## Sequence

MSRKPCCVGE GLKKGAWTTE EDKKLISYIH DHGEGGWRDI PQKAGLKRCG KSCRLRWNTY LKPEIKRGEF  
SSEEEQIIIM LHASRGNKWS VIARHLPRRT DNEIKNYWNT HLKRLMEQG IDPVTHKPLA SSSNPTVDEN  
LNSPNASSSD KQYSRSSMP FLSRPPPSSC NMVSKVSELS SNDGTPIQGS SLCKKRFKK SSSTSRLLNK  
VAAKATSIKD ILSASMEGSL SATTISHASF FNGFTEQIRN EEDSSNTSLT NTLAEFDPFS PSSLYPEHEI  
NATSDLNMDQ DYDFSQFFEK FGDNHNEEN SMNDLLMSDV SQEVSSTSVD DQDNMVGNEF GWSNYLLDHT  
NFMYDTSDS LEKHF

## Sequence Positions

1-366, 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

32,044 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\_200950.1

## NCBI GI #

15240251

## NCBI GenBank Nucleotide #

NM\_125535.4

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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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)

## NCBI GeneID

836263

## NCBI Official Full Name

myb domain protein 28

## NCBI Official Symbol

MYB28

## NCBI Official Synonym Symbols

AtMYB28; HAG1; HIGH ALIPHATIC GLUCOSINOLATE 1; MFB13.22; MFB13\_22; myb domain protein 28;  
PMG1; PRODUCTION OF METHIONINE-DERIVED GLUCOSINOLATE 1

## NCBI Protein Information

myb domain protein 28

## NCBI Summary

Encodes a nuclear localized member of the MYB transcription factor family. Involved in positive regulation of aliphatic glucosinolate biosynthesis. Expression is induced by touch, wounding and glucose.

## UniProt Gene Name

MYB28

## UniProt Synonym Gene Names

HAG1; PMG1; AtMYB28

## UniProt Protein Name

Transcription factor MYB28

## UniProt Synonym Protein Names

Myb-related protein 28; AtMYB28; Protein HIGH ALIPHATIC GLUCOSINOLATE 1; Protein PRODUCTION OF METHIONINE-DERIVED GLUCOSINOLATE 1

## UniProt Primary Accession #

Q9SPG2

## UniProt Secondary Accession #

F4K3H4

## UniProt Related Accession #

Q9SPG2

## UniProt Comments

Major regulator of short-chained aliphatic glucosinolates (GLSs) biosynthesis. Together with MYB29/HAG3 and MYB76/HAG2, promotes aliphatic glucosinolate biosynthesis but represses indolic glucosinolate biosynthesis. Prevents insect performance (e.g. lepidopteran insect *Mamestra brassicae* and *Spodoptera exigua*) by promoting glucosinolates.

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