# Transcription factor GLABRA 3 (GL3), Recombinant Protein



Cat RP00338

# **Species**

Arabidopsis thaliana (Mouse-ear cress)

## **Full Product Name**

Recombinant Arabidopsis thaliana Transcription factor GLABRA 3 (GL3), partial

#### **Product Gene Name**

GL3 recombinant protein

# **Product Synonym Gene Name**

GL3

# **Purity**

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

#### **Format**

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

#### Host

E Coli or Yeast or Baculovirus or Mammalian Cell

# **Molecular Weight**

70,539 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\_680372.1

#### NCBI GI#

22327493

## NCBI GenBank Nucleotide #

NM\_148067.4

#### NCBI GenelD

834133

#### **NCBI Official Full Name**

basic helix-loop-helix (bHLH) DNA-binding superfamily protein

# **NCBI Official Symbol**

GL3

# **NCBI Official Synonym Symbols**

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967 Tel: 1-631-637-0420

# Transcription factor GLABRA 3 (GL3), Recombinant Protein



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GLABRA 3; GLABROUS 3; MYC6.2

#### **NCBI Protein Information**

basic helix-loop-helix (bHLH) DNA-binding superfamily protein

### **NCBI Summary**

encodes a basic helix loop helix domain protein that interacts with GL1 in trichome development.

#### **UniProt Gene Name**

GL3

# **UniProt Synonym Gene Names**

BHLH1; EN31; MYC6; SST; AtMYC6; AtbHLH1; bHLH 1

#### **UniProt Protein Name**

Transcription factor GLABRA 3

# **UniProt Synonym Protein Names**

Basic helix-loop-helix protein 1; AtMYC6; AtbHLH1; bHLH 1; Protein SHAPESHIFTER; Transcription factor EN 31; bHLH transcription factor bHLH001

# **UniProt Primary Accession #**

Q9FN69

#### **UniProt Related Accession #**

Q9FN69

#### **UniProt Comments**

Transcription activator, when associated with MYB75/PAP1, MYB90/PAP2 or TT2. Involved in epidermal cell fate specification. Regulates negatively stomata formation, but, in association with TTG1 and MYB0/GL1, promotes trichome formation, branching and endoreplication. Regulates also trichome cell wall maturation. Together with MYB66/WER, promotes the formation of non-hair cells in root epidermis cells in the N position. Whereas together with CPC, promotes the formation of hair cells in root epidermis cells in the H position by inhibiting non-hair cell formation. Seems also to play a role in the activation of anthocyanin biosynthesis, probably together with MYB75/PAP1. Activates the transcription of GL2.

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