Transcription Factor EGL1 (BHLH2) Arabidopsis Thaliana Recombinant Protein

PRODUCT OVERVIEW

Product Name	Transcription factor EGL1 (BHLH2), Recombinant Protein
Full Product Name	Recombinant Arabidopsis thaliana Transcription factor EGL1 (BHLH2) , partial
Product Gene Name	BHLH2 recombinant protein
Product Synonym Gene Name	BHLH2
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	66,620 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9CAD0
Species	Arabidopsis thaliana (Mouse-ear cress)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for BHLH2 recombinant protein	MBS1348387 is a recombinant protein targeting BHLH2. Also known as Recombinant Arabidopsis thaliana Transcription factor EGL1 (BHLH2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of BHLH2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BHLH2. It may not necessarily be applicable to this product.

NCBI GI #	334183608
NCBI GeneID	842669
NCBI Accession #	NP_001185302.1
UniProt Primary Accession #	Q9CAD0
UniProt Secondary Accession #	O22418
UniProt Related Accession #	Q9CAD0
GenBank Nucleotide #	NM_001198373.2
NCBI Official Full Name	basic helix-loop-helix (bHLH) DNA-binding superfamily protein
NCBI Official Symbol	EGL3

NCBI Official Synonym Symbols	AtEGL3; ATMYC-2; EGL1; ENHANCER OF GLABRA 3; F24D7.16; F24D7_16
UniProt Protein Name	Transcription factor EGL1
UniProt Synonym Protein Names	Basic helix-loop-helix protein 2; AtMYC146; AtbHLH2; bHLH 2; Protein ENHANCER OF GLABRA 3; Transcription factor EN 30; bHLH transcription factor bHLH002
Protein Family	Transcription factor
UniProt Gene Name	BHLH2
UniProt Synonym Gene Names	EGL1; EGL3; EN30; MYC146; AtMYC146; AtbHLH2; bHLH 2
NCBI Protein Information	basic helix-loop-helix (bHLH) DNA-binding superfamily protein
NCBI Summary for BHLH2	Mutant has reduced trichomes, anthocyanin, and seed coat mucilage and abnormally patterned stomates. Encodes a bHLH Transcription Factor 1. The protein is functionally redundant with GL3 and TT8 and interacts with TTG1, the myb proteins GL1, PAP1 and 2, CPC and TRY, and it will form heterodimers with GL3. Expression in N (non-hair cell forming) cell layers is negatively regulated by WER. Expression in H cells (hair cell forming) is promoted by CPC/TRY.
UniProt Comments for BHLH2	Transcription activator, when associated with MYB75/PAP1, MYB90/PAP2 or TT2. Involved in epidermal cell fate specification. Regulates negatively stomata formation but promotes trichome formation. 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. Involved in seed mucilage production. Activates the transcription of GL2.
Research Articles on BHLH2	**1.** WER expressed ubiquitously in the root induced GL2 expression only in the root epidermis, whereas co-expression of WER and EGL3 induced GL2 expression in the corresponding tissues.
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