

Transcription factor AIG1 (BHLH32), Recombinant Protein

Cat RP07268

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-
Arabidopsis thaliana (Mouse-ear cress)
Cell)

Full Product Name

Recombinant Arabidopsis thaliana Transcription factor AIG1 (BHLH32)

Product Gene Name

BHLH32 recombinant protein

Product Synonym Gene Name

BHLH32

Purity

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

Sequence

MYAMKEEDCL QTFHNLQDYQ DQFHLHHHPQ ILPWSSTSLP SFDPLHFPSN PTRYSDPVHY FNRRASSSSS
SFDYNDGFVS PPPSMDHPQN HLRILSEALG PIMRRGSSFG FDGEIMGKLS AQEVMDAKAL AASKSHSEAE
RRRRERINTH LAKLRSILPN TTKTDKASLL AEVIQHMKEK KRQTSQITDT YQVPTECDDL TVDSSYNDEE
GNLVIRASF CQDRTDLMHD VINALKSLRL RTLKAEIATV GGRVKNILFL SREYDDEEDH DSYRRNFDGD
DVEDYDEERM MNNRVSSIEE ALKAVIEKCV HNNDESNDNN NLEKSSSGGI KRQRTSKMVN RCYN

Sequence Positions

1-344, 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

39,497 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_189199.1

NCBI GI

15230869

NCBI GenBank Nucleotide

NM_113470.3

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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(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

822159

NCBI Official Full Name

basic helix-loop-helix 32

NCBI Official Symbol

BHLH32

NCBI Official Synonym Symbols

ATAIG1; basic helix-loop-helix 32; TARGET OF MONOPTEROS 5; TMO5

NCBI Protein Information

basic helix-loop-helix 32

NCBI Summary

Encodes a basic helix-loop-helix transcription factor that is expressed in the hypophysis-adjacent embryo cells, and is required and partially sufficient for MP-dependent root initiation. Involved in response to phosphate starvation. Negative regulator of root hair development, anthocyanin formation and Pi content.

UniProt Gene Name

BHLH32

UniProt Synonym Gene Names

EN54; TMO5; AtAIG1; AtbHLH32; bHLH 32

UniProt Protein Name

Transcription factor AIG1

UniProt Synonym Protein Names

Basic helix-loop-helix protein 32; AtbHLH32; bHLH 32; Protein TARGET OF MONOPTEROS 5; Transcription factor EN 54; bHLH transcription factor bHLH032

UniProt Primary Accession

Q9LS08

UniProt Related Accession

Q9LS08

UniProt Comments

Transcription factor required for MONOPTEROS-dependent root initiation in embryo. Transcriptionally controlled by MONOPTEROS.

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