

Transcription factor UPBEAT1 (UPB1), Recombinant Protein

Cat RP01373

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 0.1 mg (Yeast)/ 0.02 mg (Baculovirus)/ 1 mg (E-Coli)/ 0.02 mg

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

Full Product Name

Recombinant Arabidopsis thaliana Transcription factor UPBEAT1 (UPB1)

Product Gene Name

UPB1 recombinant protein

Purity

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

Sequence

MGVTLEGQRK ESIWVLMRRQ RARRALVKKI MIRPRKSVEA SRRPCRAIHR RVKTLKELVP NTKTSEGLDG LFRQTADYIL ALEMKVKVMQ TMVQVL TETN CV

Sequence Positions

1-102, 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

11,879 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_566098.1

NCBI GI

18407313

NCBI GenBank Nucleotide

NM_130295.3

NCBI GeneID

819340

NCBI Official Full Name

transcription factor UPBEAT protein

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI Official Symbol

UPB1

NCBI Official Synonym Symbols

T8113.11; UPBEAT1

NCBI Protein Information

transcription factor UPBEAT protein

NCBI Summary

Encodes UPBEAT1 (UPB1), a transcription factor with a bHLH domain. Regulates the expression of a set of peroxidases that modulate the balance of reactive oxygen species (ROS) between the zones of cell proliferation and the zone of cell elongation where differentiation begins. Disruption of UPB1 activity alters this ROS balance, leading to a delay in the onset of differentiation.

UniProt Gene Name

UPB1

UniProt Synonym Gene Names

BHLH151; EN146; AtbHLH151; bHLH 151

UniProt Protein Name

Transcription factor UPBEAT1

UniProt Synonym Protein Names

Basic helix-loop-helix protein 151; AtbHLH151; bHLH 151; Transcription factor EN 146; Transcription factor bHLH151; bHLH transcription factor bHLH151

UniProt Primary Accession

O22901

UniProt Secondary Accession

Q8LDJ3; C0SV93

UniProt Related Accession

O22901

UniProt Comments

Transcription factor that modulates the balance between cellular proliferation and differentiation in root growth. Does not act through cytokinin and auxin signaling, but by repressing peroxidase expression in the elongation zone.

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