B3 domain-containing transcription factor LEC2 (LEC2), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP01996*

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 B3 domain-containing transcription factor LEC2 (LEC2)

Product Gene Name
LEC2 recombinant protein

Product Synonym Gene Name
LEC2

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

Sequence
MDNFLPFPSS NANSVQELSM DPNNNRSHFT TVPTYDHHQA QPHHFLPPFS YPVEQMAAVM NPQPVYLSEC YPQIPVTQTG SEFGSLVGNP CLWQERGGFL DPRMTKMARI NRKNAMMRSR NNSSPNSSPS ELVDSKRQLM MLNLKNNVQI SDKKDSYQQS TFDNKKLRVL CEKELKNSDV GSLGRIVLPK RDAEANLPKL SDKEGIVVQM RDVFSMQSWS FKYKFWSNNK SRMYVLENTG EFVKQNGAEI GDFLTIYEDE SKNLYFAMNG NSGKQNEGRE NESRERNHYE EAMLDYIPRD EEEASIAMLI GNLNDHYPIP NDLMDLTTDL QHHQATSSSM PPEDHAYVGS SDDQVSFNDF EWW

Sequence Positions
1-363, 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
41,708 Da

Storage
Store at -20℃. For long-term storage, store at -20℃ or -80℃. Store working aliquots at 4℃ for up to one week. Repeated freezing and thawing is not recommended.

Protein Family
B3 domain-containing transcription factor

NCBI Accession
NP_564304.1

NCBI GI
18396728

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

B3 domain-containing transcription factor LEC2 (LEC2), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP01996*

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 GenBank Nucleotide
NM_102595.2

NCBI GeneID
839724

NCBI Official Full Name
AP2/B3-like transcriptional factor family protein

NCBI Official Symbol
LEC2

NCBI Official Synonym Symbols
AtLEC2; F3H9.5; F3H9_5; LEAFY COTYLEDON 2

NCBI Protein Information
AP2/B3-like transcriptional factor family protein

NCBI Summary
Transcription factor that contains a B3 domain, a DNA-binding motif unique to plants and characteristic of several transcription factors. Plays critical roles both early and late during embryo development. LEC2 RNA accumulates primarily during seed development. LEC2 is required for the maintenance of suspensor morphology, specification of cotyledon identity, progression through the maturation phase, and suppression of premature germination. It establishes a cellular environment sufficient to initiate embryo development - ectopic, postembryonic expression of LEC2 in transgenic plants induces the formation of somatic embryos and other organ-like structures and often confers embryonic characteristics to seedlings and to reproductive and vegetative organs of mature plants.

UniProt Gene Name
LEC2

UniProt Protein Name
B3 domain-containing transcription factor LEC2

UniProt Synonym Protein Names
Protein LEAFY COTYLEDON 2

UniProt Primary Accession
Q1PFR7

UniProt Secondary Accession
Q93VR5; Q9FZA3; A0ME96

UniProt Related Accession
Q1PFR7

UniProt Comments
Transcription regulator that plays a central role in embryo development. Required for the maintenance of suspensor morphology, specification of cotyledon identity, progression through the maturation phase and

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/

B3 domain-containing transcription factor LEC2 (LEC2), Recombinant Protein

CD BioSciences
Plant Protein

Cat *RP01996*

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)*

suppression of premature germination. Ectopic expression is sufficient to promote somatic embryogenesis.

Address: SUITE 209, 17 Ramsey Road, Shirley, NY 11967
Tel: 1-631-637-0420
E-mail: info@cd-biosci.com
https://www.cd-biosciences.com/plant-protein/