

Protein UNUSUAL FLORAL ORGANS (UFO), Recombinant Protein

Cat RP00337

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

Full Product Name

Recombinant Arabidopsis thaliana Protein UNUSUAL FLORAL ORGANS (UFO)

Product Gene Name

UFO recombinant protein

Product Synonym Gene Name

UFO

Purity

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

Sequence

MDSTVFNNP SLTLPFSYTF TSSNSSTTT STTTDSSSGQ WMDGRIWSKL PPPLLDRIA FLPPPAFFRT
RCVCKRFYSL LFSNTFLEY LQLPLRHNC FLFFKHKTLK SYIYKRGGTN DDDSNKAEGF LFDPNIRWY
RLSFAYIPSG FYPSSGSSGGL VSWVSEEAGL KTILLCNPLV GSVSQLPPI RPRLFPSIGL SVTPTSIDVT
VAGDDLISPY AVKNLSSESF HVDAGGFFSL WAMTSSLRL CSLESGKVMY VQGKFYCMNY SPFSVLSYEV
TGNRWIKIQA PMRRFLRSPS LLESKGRLL VAAVEKSKLN VPKSLRLWSL QQDNATWVEI ERMPQPLYTQ
FAAEEGGKGF ECVGNQEFVM IVLRGTSLLQ LFDIVRKSWL WVPPCPYSGS GGGSSGGGSD GEVLQGFAYD
PVLTPPVSL LDQLTLPFPG VC

Sequence Positions

1-442, 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

49,047 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

Protein UNUSUAL FLORAL ORGANS

NCBI Accession

NP_564368.1

NCBI GI

18397740

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*)/ 0.1 mg (*Mammalian-Cell*)/ 1
mg (*Yeast*)/ 1 mg (*Baculovirus*)/ 0.5 mg (*Mammalian-Cell*)
NCBI GenBank Nucleotide #
NM_102834.2

NCBI GeneID

839982

NCBI Official Full Name

F-box family protein

NCBI Official Symbol

UFO

NCBI Official Synonym Symbols

F17F8.16; UNUSUAL FLORAL ORGANS

NCBI Protein Information

F-box family protein

NCBI Summary

Required for the proper identity of the floral meristem. Involved in establishing the whorled pattern of floral organs, in the control of specification of the floral meristem, and in the activation of APETALA3 and PISTILLATA. UFO is found at the AP3 promoter in a LFY-dependent manner, suggesting that it works with LFY to regulate AP3 expression. UFO may also promote the ubiquitylation of LFY.

UniProt Gene Name

UFO

UniProt Synonym Gene Names

FBX1; AtFBX1

UniProt Protein Name

Protein UNUSUAL FLORAL ORGANS

UniProt Synonym Protein Names

F-box only protein 1; AtFBX1

UniProt Primary Accession

Q39090

UniProt Secondary Accession

Q4PT17; Q9FYI4

UniProt Related Accession

Q39090

UniProt Comments

Component of SCF(ASK-cullin-F-box) E3 ubiquitin ligase complexes, which may mediate the ubiquitination and subsequent proteasomal degradation of target proteins . Considered as a meristem identity factor required for

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mg (Baculovirus)/ 1 mg (E-Coli)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Yeast)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

normal growth of the young floral meristem. Acts together with LEAFY to positively regulate the B class floral homeotic genes AP3, E1, LA3 and PLE1, LA1A. In this way, operates as a region-specific regulator for petal and stamen development. Alternatively, may play a role as a negative regulator of the C class floral homeotic genes. Interacts together with the SKP1-like protein ASK1 to form a ubiquitin E3 ligase complex and could indirectly promote the ubiquitination and degradation of specific proteins controlling the floral primordia development like repressors of B class floral homeotic genes.

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