

WUSCHEL-related homeobox 2 (WOX2), Recombinant Protein

Cat RP02484

Size 0.02 mg (E-Coli)/ 0.1 mg (E-Coli)/ 0.02 mg (Yeast)/ 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 WUSCHEL-related homeobox 2 (WOX2)

Product Gene Name

WOX2 recombinant protein

Product Synonym Gene Name

WOX2

Purity

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

Sequence

MENEVNAGTA SSSRWNP TKD QITLLENLYK EGIRTPSADQ IQQITGRLRA YGHIEGKNVF YWFQNHKARQ
RQKQKQERMA YFNRL LHKTS RFFYPPPCSN VGCVSPYYLQ QASDHMMNQH GSVYTNDLLH RNNVMIPSGG
YEKRTVTQHQ KQLSDIRTTA ATRMPISPSS LRFDRFALRD NCYAGEDINV NSSGRKTLPL FPLQPLNASN
ADGMGSSSFA LGSDSPVDCS SDGAGREQPF IDFFSGGSTS TRFDSNGNGL

Sequence Positions

1-260, 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

29,183 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

WUSCHEL-related homeobox

NCBI Accession

NP_200742.2

NCBI GI

79540980

NCBI GenBank Nucleotide

NM_125325.3

NCBI GeneID

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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836053 mg (Baculovirus)/ 1 mg (E-Coli)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)/ 1 mg (Baculovirus)/ 0.5 mg (Mammalian-Cell)

NCBI Official Full Name

WUSCHEL related homeobox 2

NCBI Official Symbol

WOX2

NCBI Official Synonym Symbols

MNC17.25; MNC17_25; WUSCHEL related homeobox 2

NCBI Protein Information

WUSCHEL related homeobox 2

NCBI Summary

Encodes a WUSCHEL-related homeobox gene family member with 65 amino acids in its homeodomain. Proteins in this family contain a sequence of eight residues (TLPLFPMH) downstream of the homeodomain called the WUS box. WOX2 has a putative Zinc finger domain downstream of the homeodomain. Transcripts are expressed in the egg cell, the zygote and the apical cell lineage and are reduced in met3-1 early embryos. This gene is necessary for cell divisions that form the apical embryo domain.

UniProt Gene Name

WOX2

UniProt Protein Name

WUSCHEL-related homeobox 2

UniProt Primary Accession

Q6X7K1

UniProt Secondary Accession

Q6X7K2; Q9FIE5

UniProt Related Accession

Q6X7K1

UniProt Comments

Probable transcription factor involved in embryonic patterning. Required for apical embryo development after fertilization. Its specific localization to the apical daughter cell of the zygote, while WOX8 is confined to the basal cell, suggests that the asymmetric division of the plant zygote separates determinants of apical and basal cell fates.

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