

Transcription factor RAX1 (RAX1), Recombinant Protein

Cat RP02551

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 Transcription factor RAX1 (RAX1)

Product Gene Name

RAX1 recombinant protein

Product Synonym Gene Name

RAX1

Purity

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

Sequence

MGRAPCCDKT KVKRGPWSPE EDSKLRDYIE KYGNGGNWIS FPLKAGLRRC GKSCRLRWLN YLRPNIKHGD
FSEEDRIIF SLFAAIGSRW SIIAAHLPGR TDNDIKNYWN TKLRKKLLSS SSDSSSSAMA SPYLNPIQD
VKRPTSPTTI PSSSYNPYAE NPNQYPTKSL ISSINGFEAG DKQIISYINP NYPQDLYLSD SNNNTSNANG
FLLNHNMCQDQ YKNHTSFSSD VNGIRSEIMM KQEEIMMMMM IDHHIDQRTK GYNGETQGY YNYYNGHGD
KQMISGTGTN SNINMGSGSGS SSSISNLAE NKSSGSLLE YKCLPYFYS

Sequence Positions

1-329, 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

37,045 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_197691.1

NCBI GI

15237193

NCBI GenBank Nucleotide

NM_122206.4

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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

NCBI GeneID

832364

NCBI Official Full Name

myb domain protein 37

NCBI Official Symbol

MYB37

NCBI Official Synonym Symbols

ATMYB37; myb domain protein 37; RAX1; REGULATOR OF AXILLARY MERISTEMS 1; T2007.2; T2007_2

NCBI Protein Information

myb domain protein 37

NCBI Summary

"Putative homolog of the Blind gene in tomato. Together with RAX2 and RAX3 belong to the class R2R3 MYB genes; encoded by the Myb-like transcription factor MYB37, regulates axillary meristem formation. RAX1 is expressed in a small central domain within the boundary zone separating SAM and leaf primordia during early leaf primordium development and is currently the earliest spatial marker for future axillary meristems. Member of the R2R3 factor gene family."

UniProt Gene Name

RAX1

UniProt Synonym Gene Names

MYB37; AtMYB37

UniProt Protein Name

Transcription factor RAX1

UniProt Synonym Protein Names

Myb-related protein 37; AtMYB37; Protein REGULATOR OF AXILLARY MERISTEMS 1

UniProt Primary Accession

Q9FG68

UniProt Secondary Accession

Q70YU8; Q70YV2; Q70YV7; Q70YV9; Q70YW0; Q70YW1; A5YZ30; A5YZ33; A5YZ38; A5YZ50; A5YZ51

UniProt Related Accession

Q9FG68

UniProt Comments

Transcription activator of genes involved in the regulation of meristematic competence, such as CUC2. Positively regulates axillary meristems (AMs) formation and development, especially at early phases of vegetative growth, probably by specifying a stem cell niche for AM formation. Modulates the negative regulation mediated by gibberellic acid on the timing of developmental phase transitions.

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