

Transcription factor PERIANTHIA (PAN), Recombinant Protein

Cat RP00523

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

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

Full Product Name

Recombinant Arabidopsis thaliana Transcription factor PERIANTHIA (PAN)

Product Gene Name

PAN recombinant protein

Product Synonym Gene Name

PAN

Purity

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

Sequence

MQSSFKTVPF TPDFYSQSSY FFRGDSCLEE FHQPVNGFHH EEAILDLPNV TIASANLHYT TFDTVMDCGG
GGGGGLRERL EGEEEECLDT GQLVYQKGTR LVGGGVGEVN SSWCDSVSAM ADNSQHTDTS TDIDTDDKTQ
LNGGHQGMML ATNCSDQSNV KSSDQRTLRR LAQNREAARK SRLRKKAYVQ QLENSRIRLA QLEEELKRAR
QQGSLVERGV SADHTHLAAG NGVFSFELEY TRWKEEHQRM INDLRSGVNS QLGDNDLRVL VDAVM SHYDE
IFRLKGIGTK VDVFHMLSGM WKTPAERFFM WLGGRSSEL LKILGNHVDP LTDQQLIGIC NLQSSQQA
DALSQGMEAL QQSLETLSS ASMGPNSSAN VADYMGHMAM AMGKLGTLN FLRQADLLRQ QTLQQLHRIL
TTRQAARAFV VIHDYISRLR ALSSLWLARP RD

Sequence Positions

1-452, 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

50,458 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_177031.1

NCBI GI

15221460

NCBI GenBank Nucleotide

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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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)

843194

NCBI Official Full Name

bZIP transcription factor family protein

NCBI Official Symbol

PAN

NCBI Official Synonym Symbols

F24J5.12; F24J5_12; PERIANTHIA; TGA8; TGACG sequence-specific binding protein 8

NCBI Protein Information

bZIP transcription factor family protein

NCBI Summary

Encodes bZIP-transcription factor. Mutant plants have extra floral organs. PAN is essential for AG activation in early flowers of short-day-grown plants.

UniProt Gene Name

PAN

UniProt Synonym Gene Names

AtbZIP46

UniProt Protein Name

Transcription factor PERIANTHIA

UniProt Synonym Protein Names

bZIP transcription factor 46; AtbZIP46

UniProt Primary Accession

Q9SX27

UniProt Secondary Accession

Q9ZPJ6

UniProt Related Accession

Q9SX27

UniProt Comments

Transcriptional activator involved in the determination of floral organ number. Acts to determine floral organ patterning by establishing floral organ primordia in specific numbers and positions. Plays a role in regulating stem cell fate by directly controlling AG expression. Binds to the 5'-AAGAAT-3' cis-acting element found in AG promoter. Might represent a target for a post-translational modification by GRXC7/ROXY1.

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