

# AP2-like ethylene-responsive transcription factor ANT (ANT), Recombinant Protein

Cat      *RP00367*

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## Species

*Arabidopsis thaliana* (Mouse-ear cress)

## Full Product Name

Recombinant *Arabidopsis thaliana* AP2-like ethylene-responsive transcription factor ANT (ANT) , partial

## Product Gene Name

ANT recombinant protein

## Product Synonym Gene Name

ANT

## Purity

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

## Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

## Host

E Coli or Yeast or Baculovirus or Mammalian Cell

## Molecular Weight

61,725 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

Antirepressor protein

## NCBI Accession #

NP\_195489.1

## NCBI GI #

15235690

## NCBI GenBank Nucleotide #

NM\_119937.3

## NCBI GeneID

829931

## NCBI Official Full Name

Integrase-type DNA-binding superfamily protein

## NCBI Official Symbol

ANT

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**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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# AP2-like ethylene-responsive transcription factor ANT (ANT), Recombinant Protein

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## NCBI Official Synonym Symbols

AINTEGUMENTA; AtANT; CKC; CKC1; COMPLEMENTING A PROTEIN KINASE C MUTANT 1; DRAGON; DRG; T28I19.30; T28I19\_30

## NCBI Protein Information

Integrase-type DNA-binding superfamily protein

## NCBI Summary

ANT is required for control of cell proliferation and encodes a putative transcriptional regulator similar to AP2. Loss of function alleles have reduced fertility, abnormal ovules and abnormal lateral organs. Expressed specifically in the chalaza and in floral organ primordia.

## UniProt Gene Name

ANT

## UniProt Synonym Gene Names

CKC1; DRG; OVM

## UniProt Protein Name

AP2-like ethylene-responsive transcription factor ANT

## UniProt Synonym Protein Names

Complementing a protein kinase C mutant protein 1; Protein AINTEGUMENTA; Protein DRAGON; Protein OVULE MUTANT

## UniProt Primary Accession #

Q38914

## UniProt Secondary Accession #

Q42462

## UniProt Related Accession #

Q38914

## UniProt Comments

Transcription activator that recognizes and binds to the DNA consensus sequence 5'-CAC[AG]N[AT]TNCCNANG-3'. Required for the initiation and growth of ovules integumenta, and for the development of female gametophyte. Plays a critical role in the development of gynoecium marginal tissues (e.g. stigma, style and septa), and in the fusion of carpels and of medial ridges leading to ovule primordia. Also involved in organs initiation and development, including floral organs. Maintains the meristematic competence of cells and consequently sustains expression of cell cycle regulators during organogenesis, thus controlling the final size of each organ by controlling their cell number. Regulates INO autoinduction and expression pattern. As ANT promotes petal cell identity and mediates down-regulation of AG in flower whorl 2, it functions as a class A homeotic gene.

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