

# Methionine aminopeptidase 2A (MAP2A), Recombinant Protein

Cat      *RP05299*

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 Methionine aminopeptidase 2A (MAP2A)

## Product Gene Name

MAP2A recombinant protein

## Product Synonym Gene Name

MAP2A

## Purity

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

## Sequence

MAIGNPEVAT MGKENTEAES SNGNESQLSS DLTksLDLAE VKEDEKDNNQ EEEDGLKAEA STKkkkkkSK  
SKKKKSSLQQ TDPPSIPVLE LFPsgDFPQG EIQQYNDNL WRTTSEEKRE MERLQKPIYN SLRQAAEVHR  
QVRKYMRSIL KPGMLMIDLC ETLENTVRKL ISEngLQAGI AFPTGCSLNN VAAHWTPNSG DKTVLQYDDV  
MKLDFGTHID GHIVDSFTV AFNPMFDPLL AASRDATYTG IKEAGVDVRL CDVGAAVQEV MESYEVEING  
KVYQVKsIRN LngHSIGRYQ IHAEKsVpNV RGGEQTKMEE GELYAIETFG STGKGyVRED LECsHYMKNY  
DVGHVPLRLP RAKQLLATIN KNFSTLAFCR RYLDRLGETK YLMALKNLCD SGIIePCPPV CDVKGSyISQ  
FEHTILLRPT CKEIISKGDD Y

## Sequence Positions

1-441, 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

49,395 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

Methionine aminopeptidase

## NCBI Accession #

NP\_566013.1

## NCBI GI #

18406472

## NCBI GenBank Nucleotide #

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Cat      *RP05299*

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)

**NCBI GeneID**

819025

## NCBI Official Full Name

methionine aminopeptidase 2A

## NCBI Official Symbol

MAP2A

## NCBI Official Synonym Symbols

F6E13.31; methionine aminopeptidase 2A

## NCBI Protein Information

methionine aminopeptidase 2A

## NCBI Summary

Encodes a MAP2 like methionine aminopeptidase. In MAP1A mutant background plants show an increased sensitivity to fumagillin resulting in defects in development. Phenotype is similar to RNAi lines which knock out all MAP2/MAP1 loci.

## UniProt Gene Name

MAP2A

## UniProt Synonym Gene Names

MAP 2A; MetAP 2A

## UniProt Protein Name

Methionine aminopeptidase 2A

## UniProt Synonym Protein Names

Peptidase M

## UniProt Primary Accession #

Q9FV49

## UniProt Secondary Accession #

O80587

## UniProt Related Accession #

Q9FV49

## UniProt Comments

Cotranslationally removes the N-terminal methionine from nascent proteins. The N-terminal methionine is often cleaved when the second residue in the primary sequence is small and uncharged (Met-Ala-, Cys, Gly, Pro, Ser, Thr, or Val).

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