

# Probable calcium-binding protein CML18 (CML18), Recombinant Protein

Cat RP04629

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)/ 1

mg (E-Coli)/ 0.1 mg (Baculovirus)/ 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 Probable calcium-binding protein CML18 (CML18)

## Product Gene Name

CML18 recombinant protein

## Product Synonym Gene Name

CML18

## Purity

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

## Sequence

MSCDGGKPAP AKLGDEQLAE LREIFRSFDQ NKDGSLTELE LGSLLRSLGL KPSQDQLDTL IQKADRNNNG  
LVEFSEFVAL VEPDLVKCPY TDDQLKAIFR MFDRDGNNGYI TAAELAHSMA KLGHALTAE LTGMIKEADR  
DGDGCIDFQE FVQAITSAAF DNAWG

## Sequence Positions

1-165, 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

18,090 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

Probable calcium-binding protein

## NCBI Accession #

NP\_186950.1

## NCBI GI #

15228441

## NCBI GenBank Nucleotide #

NM\_111170.2

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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## NCBI GeneID

821161

## NCBI Official Full Name

EF hand calcium-binding protein family

## NCBI Official Symbol

AT3G03000

## NCBI Official Synonym Symbols

F13E7.5; F13E7\_5

## NCBI Protein Information

EF hand calcium-binding protein family

## NCBI Summary

Calmodulin like protein localized in the plant vacuolar compartment with a function of binding and modifying the activity of a tonoplast transporter (AtNHX1) from within the vacuole in a Ca<sup>2+</sup>- and pH-dependent manner

## UniProt Gene Name

CML18

## UniProt Synonym Gene Names

CAM15; AtCaM-15

## UniProt Protein Name

Probable calcium-binding protein CML18

## UniProt Synonym Protein Names

Calmodulin-15; AtCaM-15; Calmodulin-like protein 18

## UniProt Primary Accession #

Q9M8U1

## UniProt Related Accession #

Q9M8U1

## UniProt Comments

Potential calcium sensor that modulates ion selectivity of NHX1.

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