

# Calcium-dependent protein kinase 28 (CPK28), Recombinant Protein

Cat      RP04801

## Species

Arabidopsis thaliana (Mouse-ear cress)

## Full Product Name

Recombinant Arabidopsis thaliana Calcium-dependent protein kinase 28 (CPK28) , partial

## Product Gene Name

CPK28 recombinant protein

## Product Synonym Gene Name

CPK28

## 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

48,644 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

Calcium-dependent protein kinase

## NCBI Accession #

NP\_001078806.1

## NCBI GI #

145334921

## NCBI GenBank Nucleotide #

NM\_001085337.1

## NCBI GenID

836753

## NCBI Official Full Name

calcium-dependent protein kinase 28

## NCBI Official Symbol

CPK28

## NCBI Official Synonym Symbols

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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calcium-dependent protein kinase 28; K2A18.29; K2A18\_29

## NCBI Protein Information

calcium-dependent protein kinase 28

## NCBI Summary

member of Calcium Dependent Protein Kinase

## UniProt Gene Name

CPK28

## UniProt Protein Name

Calcium-dependent protein kinase 28

## UniProt Primary Accession #

Q9FW4

## UniProt Secondary Accession #

Q0WNW9; Q8LDS1; A8MQP5

## UniProt Related Accession #

Q9FW4

## UniProt Comments

May play a role in signal transduction pathways that involve calcium as a second messenger (Probable). Acts as developmentally controlled regulator for coordinated stem elongation and vascular development. Acts as key component which contributes to the developmental switch that establishes the transition from vegetative to reproductive growth (PubMed:23252373). Involved in pathogen-associated molecular pattern (PAMP)-triggered immunity (PTI) signaling. Interacts with and phosphorylates the kinase BIK1, a central rate-limiting kinase in PTI signaling. Facilitates BIK1 turnover and negatively regulates BIK1-mediated immune responses triggered by several PAMPs. Its kinase activity is necessary and sufficient for its function in PTI signaling (PubMed:25525792).

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