

# Histone-lysine N-methyltransferase SUVR5 (SUVR5), Recombinant Protein

Cat      *RP05410*

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## Species

*Arabidopsis thaliana* (Mouse-ear cress)

## Full Product Name

Recombinant *Arabidopsis thaliana* Histone-lysine N-methyltransferase SUVR5 (SUVR5) , partial

## Product Gene Name

SUVR5 recombinant protein

## 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

155,767 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

Histone-lysine N-methyltransferase

## NCBI Accession #

NP\_001189585.1

## NCBI GI #

334184398

## NCBI GenBank Nucleotide #

NM\_001202656.2

## NCBI GeneID

816905

## NCBI Official Full Name

histone-lysine N-methyltransferase SUVR5

## NCBI Official Symbol

SUVR5

## NCBI Official Synonym Symbols

F27L4.8; F27L4\_8; SU(VAR)3-9-RELATED protein 5

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

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## NCBI Protein Information

histone-lysine N-methyltransferase SUVR5

## NCBI Summary

Encodes a SET-domain protein SUVR5 that mediates H3K9me2 deposition and silencing at stimulus response genes in a DNA methylation-independent manner.

## UniProt Gene Name

SUVR5

## UniProt Synonym Gene Names

CZS; SDG6; SET6; Protein C2H2 SET; Su(var)3-9-related protein 5

## UniProt Protein Name

Histone-lysine N-methyltransferase SUVR5

## UniProt Synonym Protein Names

C2H2 zinc finger-SET histone methyltransferase; Protein C2H2 SET; Protein SET DOMAIN GROUP 6; Suppressor of variegation 3-9-related protein 5; Su(var)3-9-related protein 5

## UniProt Primary Accession #

O64827

## UniProt Secondary Accession #

O64828; O64829; A0MA41; A0MA42; B9DGK7; C0Z2K8

## UniProt Related Accession #

O64827

## UniProt Comments

Histone methyltransferase that functions together with its binding partner LDL1/SWP1 as one of the regulators of flower timing in Arabidopsis (PubMed:17224141). Mediates H3K9me2 deposition and regulates gene expression in a DNA methylation-independent manner. Binds DNA through its zinc fingers and represses the expression of a subset of stimulus response genes. May represent a novel mechanism for plants to regulate their chromatin and transcriptional state, which may allow for the adaptability and modulation necessary to rapidly respond to environment or developmental cues (PubMed:23071452).

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