

# PHD finger protein MALE STERILITY 1 (MS1), Recombinant Protein

Cat      *RP00435*

---

## Species

*Arabidopsis thaliana* (Mouse-ear cress)

## Full Product Name

Recombinant *Arabidopsis thaliana* PHD finger protein MALE STERILITY 1 (MS1) , partial

## Product Gene Name

MS1 recombinant protein

## Product Synonym Gene Name

MS1

## 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

77,004 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

PHD finger protein

## NCBI Accession #

NP\_197618.1

## NCBI GI #

15242181

## NCBI GenBank Nucleotide #

NM\_122131.2

## NCBI GeneID

832286

## NCBI Official Full Name

RING/FYVE/PHD zinc finger superfamily protein

## NCBI Official Symbol

MS1

---

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**

---

# PHD finger protein MALE STERILITY 1 (MS1), Recombinant Protein

Cat      *RP00435*

---

## NCBI Official Synonym Symbols

male sterility 1; MALE STERILITY 1 PROTEIN; T6G21.3

## NCBI Protein Information

RING/FYVE/PHD zinc finger superfamily protein

## NCBI Summary

Sporophytic factor controlling anther and pollen development. Mutants fail to make functional pollen; pollen degeneration occurs after microspore release and the tapetum also appears abnormally vacuolated. Similar to PHD-finger motif transcription factors.

## UniProt Gene Name

MS1

## UniProt Protein Name

PHD finger protein MALE STERILITY 1

## UniProt Primary Accession #

Q9FMS5

## UniProt Secondary Accession #

Q93V55

## UniProt Related Accession #

Q9FMS5

## UniProt Comments

Transcriptional activator required for anther and post-meiotic pollen development and maturation. Seems to regulate inflorescence branching and floral development. May control tapetal development by directly regulating tapetal programmed cell death (PCD) and breakdown. Implicated in pollen cytosolic components and wall development (e.g. exine and intine formation).

---

**FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY**