

Recombinant Human PRDM9 Protein, His-tagged

Cat. No. PRDM9-127H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant N-terminal His-tagged human PRDM9 protein (2-511) expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	2-511
Description	The protein encoded by this gene is a zinc finger protein with histone methyltransferase activity that catalyzes histone H3 lysine 4 trimethylation (H3K4me3) during meiotic prophase. This protein contains multiple domains, including a Kruppel-associated box (KRAB) domain, an SSX repression domain (SSXRD), a PRD1-BF1 and RIZ homologous region, a subclass of SET (PR/SET) domain, and a tandem array of C2H2 zinc fingers. The zinc finger array recognizes a short sequence motif, leading to local H3K4me3, and meiotic recombination hotspot activity. The observed allelic variation alters the DNA-binding sequence specificity of the protein, resulting in distinct meiotic recombination hotspots amongst individuals and populations. Multiple alternate alleles of this gene have been described.
Molecular Mass	60.5 kDa
Stability	≥ 1 year
Storage	At -80 centigrade.

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Storage Buffer 50 mM Tris-HCl, pH 8.0, containing 150 mM sodium chloride and 20% glycerol

GENE INFORMATION

Gene Name [PRDM9 PR/SET domain 9 \[Homo sapiens \(human\) \]](#)

Official Symbol [PRDM9](#)

Synonyms PRDM9; PR/SET domain 9; PFM6; KMT8B; MSBP3; ZNF899; MEISETZ; histone-lysine N-methyltransferase PRDM9; PR domain 9; PR domain containing 9; PR domain zinc finger protein 9; [histone H3]-lysine36 N-trimethyltransferase PRDM9; [histone H3]-lysine4 N-trimethyltransferase PRDM9; [histone H3]-lysine9 N-trimethyltransferase PRDM9; [histone H4]-N-methyl-L-lysine20 N-methyltransferase PRDM9; [histone H4]-lysine20 N-methyltransferase PRDM9; histone methyltransferase; minisatellite binding protein 3 (115kD); protein-lysine N-methyltransferase PRDM9; EC 2.1.1.354; EC 2.1.1.355; EC 2.1.1.359; EC 2.1.1.361; EC 2.1.1.362

Gene ID [56979](#)

mRNA Refseq [NM_020227](#)

Protein Refseq [NP_064612](#)

MIM [609760](#)

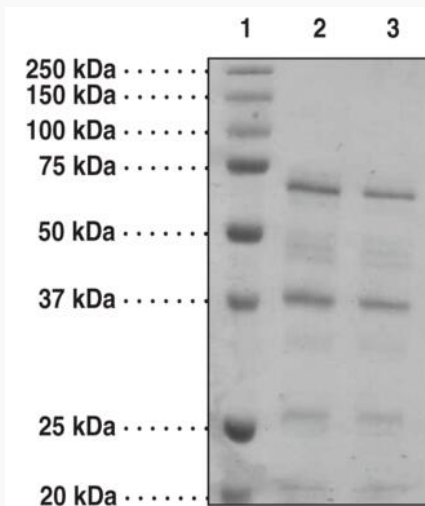
UniProt ID [Q9NQV7](#)

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**SDS-PAGE analysis
of PRDM9**



Lane 1: MW Ladder

Lane 2: PRDM9 (4 µg)

Lane 3: PRDM9 (2 µg)