

Resource Summary Report

Generated by ASWG on Aug 28, 2026

B6;129P2-Prdm9^{tm1Ymat}/J

RRID:IMSR_JAX:010719

Type: Organism

Proper Citation

RRID:IMSR_JAX:010719

Organism Information

URL: <https://www.jax.org/strain/010719>

Proper Citation: RRID:IMSR_JAX:010719

Description: Mus musculus with name B6;129P2-Prdm9^{tm1Ymat}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: PR domain containing 9; mutant stock: Prdm9

Affected Gene: PR domain containing 9

Genomic Alteration: targeted mutation 1; Yasuhisa Matsui

Catalog Number: JAX:010719

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6;129P2-Prdm9^{tm1Ymat}/J

Record Creation Time: 20250513T053717+0000

Record Last Update: 20260815T050627+0000

Ratings and Alerts

No rating or validation information has been found for B6;129P2-Prdm9^{tm1Ymat}/J.

No alerts have been found for B6;129P2-Prdm9^{tm1Ymat}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at [ASWG](#) .

Tian H, et al. (2021) EWSR1 affects PRDM9-dependent histone 3 methylation and provides a link between recombination hotspots and the chromosome axis protein REC8. *Molecular biology of the cell*, 32(1), 1.

Spruce C, et al. (2020) HELLS and PRDM9 form a pioneer complex to open chromatin at meiotic recombination hot spots. *Genes & development*, 34(5-6), 398.

Imai Y, et al. (2020) PRDM9 activity depends on HELLS and promotes local 5-hydroxymethylcytosine enrichment. *eLife*, 9.

Powers NR, et al. (2020) Sexual dimorphism in the meiotic requirement for PRDM9: A mammalian evolutionary safeguard. *Science advances*, 6(43).

Tian H, et al. (2018) CXXC1 is not essential for normal DNA double-strand break formation and meiotic recombination in mouse. *PLoS genetics*, 14(10), e1007657.

Grey C, et al. (2017) In vivo binding of PRDM9 reveals interactions with noncanonical genomic sites. *Genome research*, 27(4), 580.

Powers NR, et al. (2016) The Meiotic Recombination Activator PRDM9 Trimethylates Both H3K36 and H3K4 at Recombination Hotspots In Vivo. *PLoS genetics*, 12(6), e1006146.

Baker CL, et al. (2015) PRDM9 drives evolutionary erosion of hotspots in *Mus musculus* through haplotype-specific initiation of meiotic recombination. *PLoS genetics*, 11(1), e1004916.