

Resource Summary Report

Generated by ASWG on Aug 9, 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: 20260808T050922+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.

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

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

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.