

Resource Summary Report

Generated by [kravitz2](#) on Jul 28, 2026

[Prdm9^{tm1Ymat}/Prdm9^{tm1Ymat}](#)

RRID:MGI:3624989

Type: Organism

Proper Citation

RRID:MGI:3624989

Organism Information

URL:

Proper Citation: RRID:MGI:3624989

Description: Allele Detail: Targeted This is a legacy resource.

Species: Mus musculus

Notes: Allele Detail: Targeted This is a legacy resource.

Phenotype: abnormal ovarian folliculogenesis, decreased oocyte number, arrest of male meiosis, azoospermia, abnormal female meiosis, abnormal gametogenesis, decreased testis weight, female infertility, abnormal double-strand DNA break repair, abnormal chromosomal synapsis, male infertility

Affected Gene: Prdm9

Genomic Alteration: tm1Ymat

Catalog Number: 3624989

Background: involves: 129P2/OlaHsd * C57BL/6

Database: MGI, Mouse Genome Informatics MGI

Database Abbreviation: MGI

Availability: Availability unknown check source stock center

Source References: [PMID:16292313](#)

Organism Name: Prdm9^{tm1Ymat}/Prdm9^{tm1Ymat}

Record Creation Time: 20240120T190557+0000

Ratings and Alerts

No rating or validation information has been found for Prdm9^{tm1Ymat}/Prdm9^{tm1Ymat}.

No alerts have been found for Prdm9^{tm1Ymat}/Prdm9^{tm1Ymat}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: MGI, Mouse Genome Informatics MGI

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#).

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

Wells D, et al. (2020) ZCWPW1 is recruited to recombination hotspots by PRDM9 and is essential for meiotic double strand break repair. eLife, 9.

Diagouraga B, et al. (2018) PRDM9 Methyltransferase Activity Is Essential for Meiotic DNA Double-Strand Break Formation at Its Binding Sites. Molecular cell, 69(5), 853.