Resource Summary Report

Generated by ASWG on Sep 2, 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

Record Last Update: 20240130T202003+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 ASWG .

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.