

**B6;129P2-Prdm9<sup>tm1Ymat</sup>/J**

Stock No: **010719**

 Targeted Mutation

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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Donating Investigator:

Yasuhisa Matsui, Tohoku University

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## GENETIC OVERVIEW

Genetic Background

Generation

*Prdm9<sup>tm1Ymat</sup>*

**Alele Type**

**Gene Symbol**

**Gene Name**

Targeted (Null/Knockout)

*Prdm9*

PR domain containing 9

VIEW GENETICS

## RESEARCH APPLICATIONS

Reproductive Biology Research

Research Tools

Cancer Research

Cell Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$2,854.50 Domestic price Cryo Recovery

V I E W   P R I C E   L I S T

## Details

### Detailed Description

Mice that are heterozygous for the targeted mutation are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. Homozygotes are viable but sterile. No gene product (mRNA or protein) is detected by RT-PCR analysis of testes from homozygotes. Male homozygotes display decreased testis weight and incomplete spermatogenesis (arrest at the pachytene stage). Female homozygotes exhibit reduced germ cell number in neonatal ovaries and no forming follicles. Homozygotes have abnormal homologous chromosome pairing, impaired double strand break repair and defective sex body (XY body) formation. This mutant mouse strain may be useful in studies of meiotic arrest, infertility, and double-stranded break repair.

### Development

### Control Suggestions

### Selected References

## Genetics

### *Prdm9<sup>tm1</sup>Ymat*

## Disease/Phenotype

### Disease Terms

### Research Areas By Phenotype

### Mammalian Phenotype Terms by Genotype

### References

## Technical Support

### CONTACT TECHNICAL SUPPORT

#### Genotyping Protocols

Standard PCR:[Prdm9](#)

[Genotyping resources and troubleshooting](#)

#### Breeding Considerations

When maintaining a live colony, these mice can be bred as heterozygotes. Homozygotes are viable but sterile.

[Additional Breeding and Husbandry Support](#)

#### Citation

When using the B6;129P2-*Prdm9*<sup>tm1Ymat</sup>/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #010719 in your Materials and Methods section.

#### Animal Health Reports

[Facility Barrier Level Descriptions](#)

*Production of mice from cryopreserved embryos or sperm occurs in a maximum barrier room, [G200](#)*

## Pricing & Availability



Cryo  
Recovery

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

### Domestic | International

Pricing effective for USA, Canada and Mexico shipping destinations

#### Cryorecovery - Domestic Pricing

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous or wildtype for <i>Prdm9</i> <sup>tm1Ymat</sup>	\$2,854.50

#### Related Products and Services

<a href="#">Frozen Mouse Embryo</a>	B6;129P2- <i>Prdm9</i> <sup>tm1Ymat</sup> /J Frozen Embryo	\$2595.00
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## Payment Terms and Conditions

Terms are granted by individual review and stated on the customer invoice(s) and account statement. These transactions are payable in U.S. currency within the granted terms. Payment for services, products, shipping containers, and shipping costs that are rendered are expected within the payment terms indicated on the invoice or stated by contract. Invoices and account balances in arrears of stated terms may result in The Jackson Laboratory pursuing collection activities including but not limited to outside agencies and court filings.

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## Terms Of Use

### Terms Of Use

[General Terms and Conditions](#)

Q U E S T I O N S   A B O U T   T E R M S   O F   U S E

### Licensing Information

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