

**C57BL/6-Prf1<sup>tm1Sdz</sup> /J**

Stock No: **002407** | Prf1 KO

 Targeted Mutation

Live mice available in varying quantities. Ask Customer Service for details.

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### Also Known As: Prf1 KO

Homozygous mutant mice have normal numbers of CD8<sup>+</sup> T cells and NK cells. CTL and NK cells are unable to lyse virus-infected or allogeneic fibroblasts in vitro. Homozygotes fail to clear lymphocytic choriomeningitis virus. Fibrosarcoma tumor cells are eliminated with reduced efficiency.

### Donating Investigator

Dr. Hans Hengartner, University Hospital Zurich

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## GENETIC OVERVIEW

**Genetic Background**

**Generation**

F?+N3F3pF13

*Prf1<sup>tm1Sdz</sup>*

**Alele Type**

**Gene Symbol**

**Gene Name**

Targeted (Null/Knockout)

*Prf1*

perforin 1 (pore forming protein)

V I E W   G E N E T I C S

## RESEARCH APPLICATIONS

Apoptosis Research  
Immunology, Inflammation and Autoimmunity Research

V I E W   A L L   R E S E A R C H   A P P L I C A T I O N S

## BASE PRICE

Starting at:

\$218.00 Domestic price for female 4-week

V I E W   P R I C E   L I S T

### Details

#### Detailed Description

Mice homozygous for this perforin-1 targeted mutation are viable and fertile. Homozygous mutant mice have normal numbers of CD8<sup>+</sup> T cells and NK cells. CTL and NK cells are unable to lyse virus-infected or allogeneic fibroblasts in vitro. Homozygotes fail to clear lymphocytic choriomeningitis virus. Fibrosarcoma tumor cells are eliminated with reduced efficiency.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### *Pf1<sup>tm1Sdz</sup>*

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## – Disease/Phenotype

+ [Disease Terms](#)

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+ [Research Areas By Phenotype](#)

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+ [Mammalian Phenotype Terms by Genotype](#)

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+ [References](#)

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## – Technical Support

C O N T A C T   T E C H N I C A L   S U P P O R T

### Genotyping Protocols

Standard PCR:[Prf1](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

[This strain is a good breeder.](#)

This colony is maintained by breeding homozygous siblings; reproduction performance is similar to C57LB/6J. Young mutants are susceptible to mouse hepatitis virus, but after reaching about eight weeks of age, they survive well conventional animal housing conditions. The expected coat color from breeding is black.

### [Additional Breeding and Husbandry Support](#)

#### Mating System

Homozygote x Homozygote

#### Appearance

black

Related Genotype: *a/a*

#### Citation

When using the Prf1 KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #002407 in your Materials and Methods section.

### Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX27 \(Maximum\)](#)

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## 🔍 Pricing & Availability



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Available Now

### Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

LIVE MOUSE			
AGE	SEX	GENOTYPE	PRICE
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	Male	Homozygous for Prf1 <sup>tm1Sdz</sup>	\$218.00
5 weeks	Female	Homozygous for Prf1 <sup>tm1Sdz</sup>	\$218.00
	Male	Homozygous for Prf1 <sup>tm1Sdz</sup>	\$218.00
6 weeks	Female	Homozygous for Prf1 <sup>tm1Sdz</sup>	\$218.00
	Male	Homozygous for Prf1 <sup>tm1Sdz</sup>	\$218.00
7 weeks	Female	Homozygous for Prf1 <sup>tm1Sdz</sup>	\$218.00
	Male	Homozygous for Prf1 <sup>tm1Sdz</sup>	\$218.00
8 weeks	Female	Homozygous for Prf1 <sup>tm1Sdz</sup>	\$218.00
	Male	Homozygous for Prf1 <sup>tm1Sdz</sup>	\$218.00

### RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	C57BL/6-Prf1 <sup>tm1Sdz</sup> /J Frozen Embryos	\$2595.00
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[General Terms and Conditions](#)

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Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

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