

CByJ.SJL(B6)-*Ptprc*^a/J

Stock No: 006584

 Congenic, Variant Allele

Sized to accommodate orders of up to 10 or more with age range. Ask Customer Service for details.

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IMR Colony, The Jackson Laboratory

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GENETIC OVERVIEW

Genetic Background

001026 BALB/cByJ

Generation

N10+N2F5
(2021-04-01 00:00:00)

Ptprc^a

Allele Type

Not Applicable

Gene Symbol

Ptprc

Gene Name

protein tyrosine phosphatase, receptor type, C

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research
Research Tools

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$236.78 Domestic price for female 5-week

V I E W P R I C E L I S T

Details

Detailed Description

This is a congenic strain used in transplant studies because it carries the differential B cell antigen originally designated Ly5.1 and CD45. The current use of the *Ptprc* designation for Cd45 and Ly5 was based on work in humans following the report of Charbonneau and colleagues who first showed that a protein-tyrosine phosphatase (human placental protein-tyrosine phosphatase 1B) was homologous to the CD45 protein. *Ptprc* is one of a family of protein-tyrosine phosphatase genes involved in the regulation of cell growth. The *b* allele is normally present in the BALB and C57BL inbred strains.

Development

Control Suggestions

Genetics

Ptprc^a

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

References

Technical Support

CONTACT TECHNICAL SUPPORT

Genotyping Protocols

Probe: [Ptprc End Point-Alternate 1](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Appearance

albino

Related Genotype: A/A $Typr1^b/Typr1^b$ Tyr^c/Tyr^c

Citation

When using the CByJ.SJL(B6)-*Ptprc*^a/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006584 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX12 \(Maximum\)](#)

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Domestic International

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LIVE MOUSE

AGE	SEX	GENOTYPE	PRICE
5 weeks	Female	Homozygous for <i>Ptprc</i> ^a	\$236.78
	Male	Homozygous for <i>Ptprc</i> ^a	\$236.78

6 weeks	SEX	Homozygous for Ptprc ^a	\$236.78
	Male	Homozygous for Ptprc ^a	\$236.78
7 weeks	Female	Homozygous for Ptprc ^a	\$236.78
	Male	Homozygous for Ptprc ^a	\$236.78
8 weeks	Female	Homozygous for Ptprc ^a	\$236.78
	Male	Homozygous for Ptprc ^a	\$236.78
9 weeks	Female	Homozygous for Ptprc ^a	\$236.78
	Male	Homozygous for Ptprc ^a	\$236.78

RELATED PRODUCTS AND SERVICES

[Frozen Mouse Embryo](#)

CByJ.SJL(B6)-Ptprc^a/J

\$2595.00

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THE JACKSON LABORATORY'S GENOTYPE PROMISE

The Jackson Laboratory has rigorous genetic quality control and mutant gene genotyping programs to ensure the genetic background of JAX® Mice strains as well as the genotypes of strains with identified molecular mutations. JAX® Mice strains are only made available to researchers after meeting our standards. However, the phenotype of each strain may not be fully characterized and/or captured in the strain data sheets. **Therefore, we cannot guarantee a strain's phenotype will meet all expectations.** To ensure that JAX® Mice will meet the needs of individual research projects or when requesting a strain that is new to your research, we suggest ordering and performing tests on a small number of mice to determine suitability for your particular project. We do not guarantee [breeding performance](#) and therefore suggest that investigators order more than one breeding pair to avoid delays in their research.

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LICENSING INFORMATION

Phone: 207-288-6470

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- By Allele
- By Gene
- By Collection





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