

C57BL/6-*Ptprc*^{Itng} /J

Stock No: **016091**

 Chemically Induced 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

Dr. Arthur Weiss, University of California, San Francisco

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GENETIC OVERVIEW

Genetic Background

Generation

Ptprc^{Itng}

Alele Type

Chemically induced (ENU)

Gene Symbol

Ptprc

Gene Name

protein tyrosine phosphatase, receptor type, C

VIEW GENETICS

RESEARCH APPLICATIONS

Developmental Biology Research

Research Tools

Hematological Research

Immunology, Inflammation and Autoimmunity 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

These *lightning* mice possess an ENU-induced point mutation (F503S) in the protein tyrosine phosphatase, receptor type, C (*Ptprc*), gene. Homozygotes are viable, fertile, normal in size and do not display any gross physical or behavioral abnormalities. *Ptprc* encodes CD45, a protein tyrosine kinase which is expressed in nucleated hematopoietic cells and is required for their activation. CD45 is also required for T cell receptor (TCR) signaling and T cell development. These mice contain only 15% of the normal level of CD45 expression on the surface of nucleated hematopoietic cells, without altering splicing of transcript isoforms. These mutant mice may be useful in studying the differential regulation of TCR signaling by altered CD45 expression levels.

Development

Control Suggestions

Selected References

Genetics

Ptprc^{ltng}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

+ References

- 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

[Genotyping resources and troubleshooting](#)

Breeding Considerations

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

[Additional Breeding and Husbandry Support](#)

Citation

When using the C57BL/6-*Ptprc^{ltnng}*/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016091 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
Cryo Recovery	Heterozygous for <i>Ptprc<sup>ltnng</sup></i>	\$2,854.50

RELATED PRODUCTS AND SERVICES

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.

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

ADDITIONAL USE RESTRICTIONS APPLY

[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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