

B6(FVB)-*Serpina3g*^{tm1.1Arp} /J

Stock No: **022524**

 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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erythropoiesis.

Donating Investigator

Dr. Philip G. Ashton-Rickardt, Imperial College London

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GENETIC OVERVIEW

Genetic Background

Generation

Serpina3g^{tm1.1Arp}

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

Serpina3g

serine (or cysteine) peptidase inhibitor, clade A, member 3G

VIEW GENETICS

RESEARCH APPLICATIONS

Immunology, Inflammation and Autoimmunity Research

Internal/Organ Research

Research Tools

Virology 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

The *Serpina3g* gene encodes for the SPI2A serine protease inhibitor, which acts to inhibit cysteine cathepsins and is expressed at low levels in naive CD8⁺ T cells and is upregulated in effector cells. These mice carry a targeted mutation of the *Serpina3g* gene in which exon 4 has been deleted. Mice that are homozygous for the targeted mutation are viable and fertile. No gene product (mRNA) is detected in homozygous animals. Homozygotes develop a reduced number memory phenotype CD44^{hi} CD8⁺ T cells as they age, and exhibit decreased homeostatic proliferation of memory T cells. After lymphocytic choriomeningitis virus (LCMV) infection, antigen specific CD8⁺ T cells do not persist as long as wildtype controls. Homozygotes exhibit severely impaired erythropoiesis in response to acute anemia or erythropoietin dosing.

Development

Control Suggestions

Selected References

Genetics

Serpina3g^{tm1.1Arp}

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

Standard PCR: [Serpina3g-Alternate 3](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes.

[Additional Breeding and Husbandry Support](#)

Mating System

Heterozygote x Heterozygote

Citation

When using the B6(FVB)-*Serpina3g*^{tm1.1Arp}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #022524 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 or Wildtype for <i>Serpina3g</i> <tm1.1Arp>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo

B6(FVB)-Serpina3g<tm1.1Arp>/J Frozen Embryo

\$2595.00

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

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

By Allele

By Gene

By Collection



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