

B6.129-*Shc1*^{tm1Ravi}/J

Stock No: **025879**

 Congenic, 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

Kodi S. Ravichandran, University of Virginia

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GENETIC OVERVIEW

Genetic Background

Generation

Shc1^{tm1Ravi}

Alele Type

Targeted (Conditional ready
(e.g. floxed), No functional
change)

Gene Symbol

Shc1

Gene Name

src homology 2 domain-containing transforming protein C1

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

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

Shc1^{fl/fl} floxed mutant mice possess *loxP* sites flanking exons 1-3 of the src homology 2 domain-containing transforming protein C1 (*Shc1*) gene. SHC1 acts downstream of many different receptors including growth factor receptors, integrins, TCR, BCR, and the preTCR. Mice that are homozygous for the floxed *Shc1* allele are viable and fertile. When these mutant mice are bred to mice that express Cre recombinase, resulting offspring will have exons 1-3, including the transcriptional start site and the amino terminals of the three known *Shc1* isoforms, deleted in *cre*-expressing tissues. Breeding these mice to mice with widespread *cre* expression results in embryonically lethality by E10.5.

For example, when crossed to a strain expressing Cre recombinase in thymocytes (see Stock No. [012837](#)), resulting mice exhibit a block at the beta selection checkpoint and have greatly reduced numbers of double positive and single positive thymocytes, and an increase in percentage of CD4⁻ CD8⁻ DN thymocytes.

Development

Control Suggestions

Selected References

Genetics

Shc1^{tm1Ravi}

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:[Shc1/](#)

[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 B6.129-*Shc1*^{tm1Ravi}/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #025879 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 Shc1<tm1Ravi>	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129-Shc1<tm1Ravi>/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.

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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TOMORROW'S CURES



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