

STOCK *Sim1^{tm1.2Az}* /J

Stock No: 007570

 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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obesity, and regulation of appetite and energy balance.

Donating Investigator

Andrew Zinn, UT Southwestern Medical School

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GENETIC OVERVIEW

Genetic Background

Generation

Sim1^{tm1.2Az}

Alele Type

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

Gene Symbol

Sim1

Gene Name

single-minded family bHLH transcription factor 1

VIEW GENETICS

RESEARCH APPLICATIONS

Neurobiology Research

Research Tools

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

Mice homozygous for this "Sim1-floxed exon 1" (2-loxP) conditional allele are viable and fertile, with *loxP* sites flanking the translation start site and the first 17 amino acids of the targeted gene. When bred to mice that express Cre recombinase, the resulting offspring will have this region (coding for the basic domain of SIM1) deleted in the *cre*-expressing tissue(s). These "Sim1-floxed exon 1" (2-loxP) mice may be useful in generating conditional mutations for studying basic helix-loop-helix-*Per-ARNT-Sim* (bHLH-PAS) transcription factors, central nervous system development, early-onset/hyperphagic obesity, and regulation of appetite and energy balance.

Development

Control Suggestions

Selected References

Genetics

Sim1^{tm1.2Az}

Disease/Phenotype

Disease Terms

Research Areas By Phenotype

Mammalian Phenotype Terms by Genotype

- 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:[Sim1](#)

[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 STOCK *Sim1^{tm1.2Az}/J* mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #007570 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>Sim1<tm1.2Az></i>	\$2,854.50

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.

Terms Of Use

TERMS OF USE

[General Terms and Conditions](#)

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 non-profits requires a Material Transfer Agreement \(MTA\) and for-profit entities require a license.](#)

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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Yes No