

B6.Cg-Tg(Sirpa-tTA)SUmri/J

Stock No: 023971

 Congenic, Transgenic

Typically mice are recovered in 10-14 weeks. Contact Customer Service to place an order or for more information.

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neurons of the dentate gyrus, and may be useful for studying memory circuits in vivo.

Donating Investigator

Dr. Hisashi Umemori, University of Michigan

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Sirpa-tTA)SUmri

Alele Type

Transgenic (Transactivator)

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

These *DG-S* transgenic mice express the tetracycline-controlled transactivator (tTA) protein under the control of the mouse signal-regulatory protein alpha (*Sirpa*) promoter. Hemizygous mice are viable and fertile. SIRPA is a receptor-type transmembrane glycoprotein expressed in the dentate granule cells of the hippocampus. When mated to a second transgenic strain carrying a gene of interest under the regulatory control of a tetracycline-responsive promoter element (TRE or tetO), the target gene is expressed in neurons of the dentate gyrus, which can be inhibited with administration of the tetracycline analog, doxycycline (dox).

When bred to a β -galactosidase reporter strain (tetO-lacZ), the resulting double mutant mice exhibit a β -galactosidase activity in 37% of mature dentate granule cells (DGCs) as compared to almost all (88%) in *DG-A* mice (Stock No. [023970](#)).

Development

Expression Data

Control Suggestions

Selected References

Genetics

Tg(Sirpa-tTA)SUMri

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: [Tg\(Sirpa-tTA\)](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, homozygotes may be bred together.

[Additional Breeding and Husbandry Support](#)

Citation

When using the B6.Cg-Tg(Sirpa-tTA)SUMri/J mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #023971 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	Hemizygous or Non carrier for Tg(Sirpa-tTA)SUMri	\$2,854.50

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.Cg-Tg(Sirpa-tTA)SUMri/J	\$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.

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 companies or for-profit entities requires a no-fee JAX Leap 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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Yes No