

**B6;129S4-Socs3<sup>tm1Ayo</sup>/J**

Stock No: **010944** | Socs3<sup>tm1Ayo</sup>

 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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These suppressor of cytokine signaling 3 (Socs3)-floxed mice may be useful in generating conditional mutations to study cytokine signaling, inflammatory responses, energy homeostasis and diabetes.

### Donating Investigator

Eleftheria Maratos-Flier, Beth Israel Deaconess Medical Center, Harvard Medical School

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## GENETIC OVERVIEW

Genetic Background      Generation

**Socs3<sup>tm1Ayo</sup>**

Alele Type	Gene Symbol	Gene Name
Targeted (Conditional ready (e.g. floxed), No functional change)	Socs3	suppressor of cytokine signaling 3

VIEW GENETICS

## RESEARCH APPLICATIONS

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 that are homozygous for the targeted mutation are viable, fertile and normal in size. When used in conjunction with a Cre recombinase-expressing strain, this strain is useful in generating tissue-specific mutants of the floxed allele. This mutant mouse strain may be useful in generating conditional mutations to study cytokine signaling, inflammatory responses, energy homeostasis and diabetes.

For example, when crossed to a strain expressing Cre recombinase in the myeloid cell lineage (see Stock No. [004781](#)), this mutant mouse strain may be useful in studies of cytokine signalling and inflammation.

When crossed to a strain expressing Cre recombinase in the central and peripheral nervous system (see Stock No. [003771](#)), this mutant mouse strain may be useful in studies of leptin sensitivity and obesity.

When crossed to a strain expressing Cre recombinase in neuronal cells (see Stock No. [003966](#)), this mutant mouse strain may be useful in studies of leptin sensitivity and obesity.

#### Development

#### Control Suggestions

#### Selected References

### Genetics

#### [+](#) *Socs3<sup>tm1Ayo</sup>*

### Disease/Phenotype

[+ Disease Terms](#)

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[+ Research Areas By Phenotype](#)

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[+ Mammalian Phenotype Terms by Genotype](#)

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[+ References](#)

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## [- 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:[Socs3 Alternate1](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

While maintaining a live colony, these mice are bred as either heterozygotes or homozygotes.

[Additional Breeding and Husbandry Support](#)

#### Mating System

Homozygote x Homozygote

#### Citation

When using the  $Socs3^{fl}$  mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #010944 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](#)



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## CRYORECOVERY - DOMESTIC PRICING

SERVICE/PRODUCT	DESCRIPTION	PRICE
<a href="#">Cryo Recovery</a>	Heterozygous or Wildtype for S4-Socs3<tm1Ayo>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6;129S4-Socs3<tm1Ayo>/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

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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](mailto:TechTran@jax.org)

## Related Strains

All

By Allele

By Gene

By Collection



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