

**B6.129-Scd1<sup>tm1Ntam</sup>/J**

Stock No: **006201** | SCD1 KO

 Congenic, Targeted Mutation

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

PLACE ORDER

[Email](#) [Download PDF](#) [Help](#)

deficient in wax esters that are all required for normal skin and eyelid function.

Donating Investigator

Dr. James Ntambi, University of Wisconsin-Madison

READ MORE +

## GENETIC OVERVIEW

Genetic Background

Generation

*Scd1<sup>tm1Ntam</sup>*

Alele Type

Gene Symbol

Gene Name

Targeted (Null/Knockout)

*Scd1*

stearoyl-Coenzyme A desaturase 1

VIEW GENETICS

## RESEARCH APPLICATIONS

Diabetes and Obesity Research  
Metabolism Research  
Research Tools  
Dermatology Research  
Endocrine Deficiency Research  
Internal/Organ Research  
Cardiovascular 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

Homozygous mice are viable and fertile. Transcripts from the targeted gene are absent in homozygous liver, eyelid, skin, and white adipose tissues. In addition, the endogenous protein and enzyme activity are absent from homozygous liver tissue. Homozygous mice exhibit cutaneous abnormalities and narrow eye fissure with atrophic sebaceous and meibomian glands. Mutant mice also have reduced body adiposity, increased insulin sensitivity, increased basal and insulin-mediated glucose uptake, and are resistant to diet-induced weight gain. Homozygotes have altered hepatic glycerophospholipid profiles. Homozygous mice are not recommended for breeding as skin lesion severity may prohibit colony success. These mutant mice may be useful in studies of monounsaturated fatty acid synthesis, cholesterol homeostasis, skin disease, obesity, and diabetes.

*In an attempt to offer alleles on well-characterized or multiple genetic backgrounds, alleles are frequently moved to a genetic background different from that on which an allele was first characterized. This is the case for this strain. It should be noted that the phenotype could vary from that originally described. We will modify the strain description as published results become available.*

#### Development

#### Control Suggestions

### Genetics

#### $Scd1^{tm1Ntam}$

### 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:[Scd1](#)

[Genotyping resources and troubleshooting](#)

### Breeding Considerations

When maintaining a live colony, heterozygous mice are bred. Homozygous mice are not recommended for breeding as skin lesion severity may prohibit colony success.

[Additional Breeding and Husbandry Support](#)

### Citation

When using the SCD1 KO mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #006201 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
<a href="#">Cryo Recovery</a>	Heterozygous or Wild-type for Scd1<tm1Ntam>	\$2,854.50

## RELATED PRODUCTS AND SERVICES

<a href="#">Frozen Mouse Embryo</a>	B6.129-Scd1<tm1Ntam>/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.

## 🔍 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 license.](#)

### LICENSING INFORMATION

Phone: 207-288-6470

Email: [TechTran@jax.org](mailto:TechTran@jax.org)

## Related Strains

All

By Allele

By Gene

By Collection



### DO YOU NEED BALB/c MICE?

Rely on JAX to provide the models you need, when you need them.

LEARN MORE



CONTACT



DONATE



SUBSCRIBE

JAX HOME CAREERS LEGAL INFORMATION

RESEARCH CENTERS MOUSE GENOME INFORMATICS

MOUSE PHENOME DATABASE

*Leading the search for*

# TOMORROW'S CURES



©2021 THE JACKSON LABORATORY

Choose other country or region



^ E E E D B

Did you find what you were looking for?

Yes  No