



# SM/J

Stock No: 000687

Inbred Strain



AVAILABLE

PLACE ORDER

Live mice available in varying quantities. Ask Customer Service for details.

## Overview

### Also Known As: small

SM/J mice carry a number of rare polymorphic alleles and are often matched to other strains for quantitative trait locus analysis. These mice are susceptible to diet-induced obesity and diet-induced atherosclerosis. SM/J mice exhibit a hyperresponsiveness to B cell mitogens. Small in size at birth and through weaning, SM/J mice attain a normal body weight as they age.

READ MORE +

## GENETIC OVERVIEW

Genetic Background

Generation

F229

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VIEW GENETICS

## RESEARCH APPLICATIONS

- Developmental Biology Research
- Cardiovascular Research
- Diabetes and Obesity Research
- Immunology, Inflammation and Autoimmunity Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$236.78 Domestic price for female

V I E W P R I C E L I S T

### Details

#### Detailed Description

SM/J mice carry a number of rare polymorphic alleles and are often matched to LG/J (Stock No. [000675](#)), A/J (Stock No. [000646](#)) or NZB/BINJ (Stock No. [000684](#)) for quantitative trait locus analysis. These mice are susceptible to diet-induced obesity and diet-induced atherosclerosis. SM/J mice exhibit a hyperresponsiveness to B cell mitogens (Clark et al. 1981, Engel et al. 1981). A point mutation in *Neu1* is responsible for a partial deficiency of lysosomal neuraminidase and may explain the altered immune response (Rottier et al. 1998). Small in size at birth and through weaning, SM/J mice attain a normal body weight as they age.

#### Development

#### Selected References

### Genetics

#### *Il3ra*<sup>m1</sup>

#### *Neu1*<sup>a</sup>

#### *Gpr84*<sup>del</sup>

#### *Ogg1*<sup>m1</sup>

### Disease/Phenotype

#### Disease Terms

#### Research Areas By Genotype

#### Mammalian Phenotype Terms by Genotype

#### Phenotype Information

#### References

### Technical Support

## Genotyping Protocols

### [Genotyping resources and troubleshooting](#)

Inbred mouse strains are maintained through sibling (sister x brother) matings; no genotyping required.

## Dietary Information

LabDiet® 5K52 formulation (6% fat)

## Breeding Considerations

[This strain is a challenging breeder.](#)

### [Additional Breeding and Husbandry Support](#)

## Mating System

Sibling x Sibling

## Appearance

white-bellied agouti

Related Genotype:  $A^w/a$

black

Related Genotype:  $a/a$

## Citation

### Animal Health Reports

When using the SM/J mouse strain in a publication, please include JAX stock #000687 in your Materials and Methods section.

### [Facility Barrier Level Descriptions](#)

 [AX11 \(Maximum\)](#)

## ➔ Pricing & Availability



Live mice available in varying quantities. Ask Customer Service for details.

Available

## Domestic **International**

Pricing effective for USA, Canada and Mexico shipping destinations

### Live Mouse

AGE	SEX	PRICE
Approx 4-8 weeks	Female	\$236.78
	Male	\$236.78

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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.

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All

By Allele

By Gene

By Collection

All Related Strains



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