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.

GENETIC OVERVIEW

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RESEARCH APPLICATIONS

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

BASE PRICE

Starting at: $236.78 Domestic price for female 4-week
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.

Selected References

Genetics

- **Ii3ra<sup>m1</sup>**
- **Neu1<sup>a</sup>**
- **Gpr84<sup>del</sup>**
- **Ogg1<sup>m1</sup>**

Disease/Phenotype

- Disease Terms
- Research Areas By Phenotype
- Mammalian Phenotype Terms by Genotype

References
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^v/a

black
Related Genotype: a/a

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

Animal Health Reports
Facility Barrier Level Descriptions

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

Available

Live Mouse

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Pricing effective for USA, Canada and Mexico shipping destinations
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Phone: 207-288-6470
Email: TechTran@jax.org

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