

B6;C3H-Tg(Scgb1a1-Scnn1b)6608Bouc/J

Stock No: **005315** | Scnn1b-transgenic

 Transgenic

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

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mucus hypersecretion; similar to the clinical and pathologic descriptions of early cystic fibrosis lung disease.

Donating Investigator

Wanda K. O'Neal, Univ. of North Carolina at Chapel Hill

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GENETIC OVERVIEW

Genetic Background

Generation

Tg(Scgb1a1-Scnn1b)6608Bouc

Alele Type

Transgenic (Inserted expressed sequence)

VIEW GENETICS

RESEARCH APPLICATIONS

Internal/Organ Research

Developmental Biology Research

Immunology, Inflammation and Autoimmunity Research

Mouse/Human Gene Homologs

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 Scnn1b-transgenic mice overexpress the mouse nonvoltage-gated 1 beta, *Scnn1b*, under the direction of the rat secretoglobin, family 1A, member 1 (uteroglobin; Clara cell secretory protein) promoter. Approximately 40-60% of hemizygous mice die between birth and 4 weeks of age due to airway obstruction asphyxia. While the donating investigator reports that most hemizygous transgenic mice (80-90%) on the congenic C57BL/6N background (Stock No. [030949](#)) survive past postnatal day 14, hemizygous mice on the congenic C57BL/6J (Stock No. [006438](#)), B6;C3H mixed (Stock No. [005315](#)), and B6C3Fe hybrid (Stock No. 006176) backgrounds at The Jackson Laboratory exhibit an approximately 40% survival rate to weaning age. Histological analysis reveals that mucus accumulation, plaques and plugs in airways occur postnatally. Basal and amiloride-sensitive short-circuit currents in tracheal tissue are increased. Airway surface liquid (ASL) volume, mucus transport and clearance are reduced. Bronchial lavage and histological analysis shows mutant mice exhibit characteristics of cystic fibrosis lung disease including chronic bronchitis, airway inflammation, airway lumen infiltration of macrophage and neutrophils, and goblet cell metaplasia. These Scnn1b-transgenic mice may be useful in studies of cystic fibrosis, and are available on different genetic backgrounds such as B6;C3H mixed (Stock No. 005315), B6C3Fe hybrid (Stock No. [006176](#)), C57BL6-congenic (Stock No. [006438](#)), and congenic C57BL/6N (Stock No. [030949](#)).

Importation of this model was supported by The Boomer Esiason Foundation.

+ Development

+ Expression Data

+ Control Suggestions

+ Selected References

- Genetics

+ Tg(Scgb1a1-Scnn1b)6608Bouc

– 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: [Tlr4](#)

Separated PCR: [Tlr4](#)

Sanger sequencing: [Tlr4 SEQ](#)

[Genotyping resources and troubleshooting](#)

Breeding Considerations

When maintaining a live colony, hemizygous mice are bred to B6C3F1/J (Stock No. [100010](#); an F1 strain with the desired functional *Tlr4* allele from the C57BL/6J background). Hemizygous mice at The Jackson Laboratory exhibit an approximately 40% survival rate to weaning age.

[Additional Breeding and Husbandry Support](#)

Mating System

See "Breeding Considerations"

Citation

When using the Scnn1b-transgenic mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #005315 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



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(Scgb1a1-Scnn1b)6608Bouc	\$2,854.50

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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[Use of MICE by companies or for-profit entities requires a license prior to shipping.](#)

LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

Related Strains

All

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By Gene

By Collection



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