

B6N.129S6(Cg)-Scgb1a1^{tm1(cre/ERT)Blh} /J

Stock No: **016225** | Scgb1a1-CreER™

◆ Congenic, Targeted Mutation

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

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may useful for inducing cre recombinase activity in bronchiolar non-ciliated Clara cells.

Donating Investigator

Brigid LM Hogan, Duke University Medical Center

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GENETIC OVERVIEW

Genetic Background

Generation

N6+pN2F10
(2021-04-01 00:00:00)

Scgb1a1^{tm1(cre/ERT)Blh}

Alele Type

Targeted (Recombinase-expressing, Inducible)

Gene Symbol

Scgb1a1

Gene Name

secretoglobin, family 1A, member 1 (uteroglobin)

VIEW GENETICS

RESEARCH APPLICATIONS

Research Tools

Developmental Biology Research

VIEW ALL RESEARCH APPLICATIONS

BASE PRICE

Starting at:

\$255.00 Domestic price for female 4-week

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

Details

Detailed Description

The *Scgb1a1-creERTM* targeting construct was designed to insert a CreERTM fusion gene into the 3' UTR of the secretoglobin, family 1A, member 1 (uteroglobin) (*Scgb1a1*) gene. The targeted gene is not disrupted. Homozygotes are viable, fertile, and normal in size. SCGB1A1, a member of the secretoglobin family of small secreted proteins, is expressed in non-ciliated epithelial Clara cells. Cre-ERTM fusion gene activity is observed at high levels following induction by tamoxifen administration. When *Scgb1a1-Cre/ERTM* mice are bred with mice containing *loxP*-flanked sequences, tamoxifen-inducible Cre-mediated recombination will result in deletion of the floxed sequences in cells of the double mutant offspring. Specifically, the *Scgb1a1-Cre/ERTM* mutation directs *cre* expression in epithelial progenitor cells of bronchioles, alveoli, and the trachea during postnatal growth, adult homeostasis, and repair. This strain may useful for studying the lineage of *Scgb1a1*-expressing Clara cells in the lung.

The Cre-ERTM fusion protein consists of Cre recombinase fused to the hormone-binding domain of a mutant mouse estrogen receptor which does not bind its natural ligand (17 β -estradiol) at physiological concentrations but will bind the synthetic estrogen receptor ligands 4-hydroxytamoxifen (OHT or tamoxifen) and, with lesser sensitivity, ICI 182780. Restricted to the cytoplasm, Cre-ERTM can only gain access to the nuclear compartment after exposure to tamoxifen. To counteract the mixed estrogen agonist effects of tamoxifen injections, which can result in late fetal abortions in pregnant mice, progesterone may be coadministered.

Development

Expression Data

Control Suggestions

Selected References

Genetics

Scgb1a1^{tm1(cre/ERT)Blh}

⊖ 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

Separated PCR:[Scgb1a1alternate1](#)

[Genotyping resources and troubleshooting](#)

Dietary Information

LabDiet® 5K52 formulation (6% fat)

Breeding Considerations

When maintaining a live colony, homozygous mice may be bred together.

[Additional Breeding and Husbandry Support](#)

Mating System

Homozygote x Homozygote

Citation

When using the Scgb1a1-CreERTM mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #016225 in your Materials and Methods section.

Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX10 \(Standard\)](#)

⊖ 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	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
	Male	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
5 weeks	Female	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
	Male	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
6 weeks	Female	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
	Male	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
7 weeks	Female	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
	Male	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
8 weeks	Female	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
	Male	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
9 weeks	Female	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
	Male	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
10 weeks	Female	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
	Male	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
11 weeks	Female	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
	Male	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
12 weeks	Female	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00
	Male	Homozygous for Scgb1a1 ^{tm1(cre/ERT)Blh}	\$255.00

RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6N.129S6(Cg)-Scgb1a1<tm1(cre/ERT)Blh>/J Frozen Embryo	\$2595.00
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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

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LICENSING INFORMATION

Phone: 207-288-6470

Email: TechTran@jax.org

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