

**B6.129S-*Sftpc*<sup>tm1(cre/ERT2)Blh</sup>/J**  
Stock No: **028054** | *Sftpc*-CreER<sup>T2</sup>

 Congenic, Targeted Mutation

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

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promoter/enhancer elements of the *Sftpc* locus. When induced, cre activity is observed in Type II alveolar cells.

### Donating Investigator

Brigid LM Hogan, Duke University Medical Center

Jason Rock, University of California, San Francisco

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## GENETIC OVERVIEW

### Genetic Background

### Generation

N8+pN2F1  
(2021-04-06 00:00:00)

*Sftpc*<sup>tm1(cre/ERT2)Blh</sup>

### Alele Type

Targeted (Recombinase-expressing, Inducible)

### Gene Symbol

*Sftpc*

### Gene Name

surfactant associated protein C

VIEW GENETICS

## RESEARCH APPLICATIONS

Research Tools

Cancer Research

VIEW ALL RESEARCH APPLICATIONS

## BASE PRICE

Starting at:

\$270.00 Domestic price for female 4-week

V I E W   P R I C E   L I S T

### Details

#### Detailed Description

The *Sftpc* gene encodes pulmonary-associated surfactant protein C which is produced at high levels by type II alveolar epithelial cells in the lung. These *Sftpc*-CreER<sup>1/2</sup> knock-in mice carry IRES-cre/ERT2 in the 3' UTR of the *Sftpc* gene. When crossed with a strain containing a *loxP* site flanked sequence of interest, the offspring are useful for generating tamoxifen-induced, Cre-mediated targeted deletions of the floxed sequences specifically in Type II alveolar cells of the lung. In adult mice after tamoxifen treatment, Cre recombinase activity is detected in approximately 85% of *Sftpc* expressing alveolar epithelial cells. No significant Cre recombinase activity is detected in the airway epithelium except in a few cells at the bronchioalveolar duct junction. There may also be low levels of *Sftpc* expression in tissues secreting lubricating fluids. Mice homozygous for this knock-in allele are viable and fertile.

Importantly, the donating investigator reports some spontaneous recombination is detected in the lung in the absence of tamoxifen. The level of spontaneous recombination at the time of donation from Dr. Rock (UCSF) was 5-10% - the same level as first reported. Dr. Hogan (Duke) reports that when continually maintained on the C57BL/6NCr genetic background, they observed spontaneous recombination levels up to 25%.

#### Development

#### Expression Data

#### Control Suggestions

#### Selected References

### Genetics

#### *Sftpc*<sup>tm1(cre/ERT2)Blh</sup>

## – Disease/Phenotype

+ [Disease Terms](#)

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+ [Research Areas By Phenotype](#)

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+ [Mammalian Phenotype Terms by Genotype](#)

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+ [References](#)

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## – 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:[Sftpc](#)

[Genotyping resources and troubleshooting](#)

### Dietary Information

New Diet as of March 2015: Lab Diet® 5K0Q (6% fat)

### Breeding Considerations

When maintaining a live colony, these mice can be bred as homozygotes. Of note, the donating investigator reports that when continually maintained on the C57BL/6Ncr genetic background, they observed spontaneous recombination levels up to 25%.

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

#### Mating System

Homozygote x Homozygote

#### Citation

When using the [Sftpc-CreER<sup>T2</sup>](#) mouse strain in a publication, please [cite the originating article\(s\)](#) and include JAX stock #028054 in your Materials and Methods section.

### Animal Health Reports

[Facility Barrier Level Descriptions](#)

 [AX18 \(Maximum\)](#)

## – 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	GENOTYPE	PRICE
4 weeks	Female	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
	Male	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
5 weeks	Female	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
	Male	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
6 weeks	Female	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
	Male	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
7 weeks	Female	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
	Male	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
8 weeks	Female	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
	Male	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
9 weeks	Female	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
	Male	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
10 weeks	Female	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
	Male	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
11 weeks	Female	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
	Male	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
12 weeks	Female	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00
	Male	Homozygous for Sftpc <sup>tm1(cre/ERT2)Blh</sup>	\$270.00

## RELATED PRODUCTS AND SERVICES

Frozen Mouse Embryo	B6.129S-Sftpc<tm1(cre/ERT2)Blh>/J Frozen Embryo	\$2595.00
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## PAYMENT TERMS AND CONDITIONS

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