

Resource Summary Report

Generated by T1D on Sep 23, 2026

B6.129S-Sftpc^{tm1}(cre/ERT2)Blh/J

RRID:IMSR_JAX:028054

Type: Organism

Proper Citation

RRID:IMSR_JAX:028054

Organism Information

URL: <https://www.jax.org/strain/028054>

Proper Citation: RRID:IMSR_JAX:028054

Description: Mus musculus with name B6.129S-Sftpc^{tm1}(cre/ERT2)Blh/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: Cre recombinase and estrogen receptor 1 (human) fusion gene|surfactant associated protein C; mutant strain|congenic strain: cre/ERT2|Sftpc

Affected Gene: Cre recombinase and estrogen receptor 1 (human) fusion gene|surfactant associated protein C

Genomic Alteration: targeted mutation 1; Brigid L Hogan

Catalog Number: JAX:028054

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S-Sftpc^{tm1}(cre/ERT2)Blh/J

Record Creation Time: 20250513T053803+0000

Record Last Update: 20260919T054947+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S-Sftpc^{tm1}(cre/ERT2)Blh/J.

No alerts have been found for B6.129S-Sftpc^{tm1(cre/ERT2)Blh/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 22 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Lu T, et al. (2026) Dysplastic epithelial repair promotes the tissue residence of lymphocytes to inhibit alveolar regeneration post viral infection. *Cell stem cell*, 33(1), 108.

Sun D, et al. (2026) In vivo interrogation of transcriptional and epigenetic regulators of lung epithelial regeneration. *bioRxiv : the preprint server for biology*.

Yee M, et al. (2025) Ki-67 promotes inflammatory signaling governing neutrophil recruitment during respiratory infections. *EMBO molecular medicine*, 17(8), 2011.

Yang X, et al. (2025) Protocol for the in vivo tracing of alveolar type I cells from mice using two distinct dual recombinase-mediated genetic approaches. *STAR protocols*, 6(1), 103648.

England FJ, et al. (2025) Sustained NF- κ B activation allows mutant alveolar stem cells to co-opt a regeneration program for tumor initiation. *Cell stem cell*, 32(3), 375.

Zhao W, et al. (2024) Myofibrillogenesis Regulator-1 Regulates the Ubiquitin Lysosomal Pathway of Notch3 Intracellular Domain Through E3 Ubiquitin-Protein Ligase Itchy Homolog in the Metastasis of Non-Small Cell Lung Cancer. *Advanced science (Weinheim, Baden-Wurttemberg, Germany)*, 11(15), e2306472.

Chioccioli M, et al. (2024) Stem cell migration drives lung repair in living mice. *Developmental cell*.

Mills KAM, et al. (2024) GM-CSF-mediated epithelial-immune cell crosstalk orchestrates pulmonary immunity to *Aspergillus fumigatus*. *bioRxiv : the preprint server for biology*.

Lv Z, et al. (2024) Alveolar regeneration by airway secretory-cell-derived p63⁺ progenitors. *Cell stem cell*, 31(11), 1685.

Liu K, et al. (2024) Tracing the origin of alveolar stem cells in lung repair and regeneration. *Cell*, 187(10), 2428.

Sun J, et al. (2023) CTGF promotes the repair and regeneration of alveoli after acute lung injury by promoting the proliferation of subpopulation of AEC2s. *Respiratory research*, 24(1), 227.

Chin C, et al. (2023) Loss of IGFBP2 mediates alveolar type 2 cell senescence and promotes lung fibrosis. *Cell reports. Medicine*, 4(3), 100945.

Wu Y, et al. (2023) Hepatic soluble epoxide hydrolase activity regulates cerebral A β metabolism and the pathogenesis of Alzheimer's disease in mice. *Neuron*, 111(18), 2847.

Roy RM, et al. (2023) Lactate produced by alveolar type II cells suppresses inflammatory alveolar macrophages in acute lung injury. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 37(12), e23316.

Wong BH, et al. (2022) The lipid transporter Mfsd2a maintains pulmonary surfactant homeostasis. *The Journal of biological chemistry*, 298(3), 101709.

Dacheux MA, et al. (2022) Prometastatic Effect of ATX Derived from Alveolar Type II Pneumocytes and B16-F10 Melanoma Cells. *Cancers*, 14(6).

Vohwinkel CU, et al. (2021) Targeting alveolar-specific succinate dehydrogenase A attenuates pulmonary inflammation during acute lung injury. *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*, 35(4), e21468.

Gokey JJ, et al. (2021) YAP regulates alveolar epithelial cell differentiation and AGER via NFIB/KLF5/NKX2-1. *iScience*, 24(9), 102967.

Liu X, et al. (2020) Legionella-Infected Macrophages Engage the Alveolar Epithelium to Metabolically Reprogram Myeloid Cells and Promote Antibacterial Inflammation. *Cell host & microbe*, 28(5), 683.

Choi J, et al. (2020) Inflammatory Signals Induce AT2 Cell-Derived Damage-Associated Transient Progenitors that Mediate Alveolar Regeneration. *Cell stem cell*, 27(3), 366.