

Resource Summary Report

Generated by [NIF](#) on Aug 22, 2026

B6.Cg-Shh^{tm1(EGFP/cre)}Cjt/J

RRID:IMSR_JAX:005622

Type: Organism

Proper Citation

RRID:IMSR_JAX:005622

Organism Information

URL: <https://www.jax.org/strain/005622>

Proper Citation: RRID:IMSR_JAX:005622

Description: Mus musculus with name B6.Cg-Shh^{tm1(EGFP/cre)}Cjt/J from IMSR.

Species: Mus musculus

Synonyms: B6.129S-Shh/J

Notes: gene symbol note: |sonic hedgehog; mutant strain|congenic strain: |Shh

Affected Gene: |sonic hedgehog

Genomic Alteration: targeted mutation 1; Clifford J Tabin

Catalog Number: JAX:005622

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.Cg-Shh^{tm1(EGFP/cre)}Cjt/J

Record Creation Time: 20250513T053651+0000

Record Last Update: 20260815T050559+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Shh^{tm1(EGFP/cre)}Cjt/J.

No alerts have been found for B6.Cg-Shh^{tm1(EGFP/cre)}Cjt/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 34 mentions in open access literature.

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

Zhang Y, et al. (2026) Stem cell control in the lung by an autocrine injury-activated Igf complex. *Science (New York, N.Y.)*, 392(6795), eadt1310.

Mu R, et al. (2026) Yap mediates Hippo signaling to balance proliferation and differentiation in the developing glandular stomach epithelium. *Cell reports*, 45(7), 117644.

Paramore SV, et al. (2024) Vangl-dependent mesenchymal thinning shapes the distal lung during murine sacculation. *Developmental cell*, 59(10), 1302.

Hall ET, et al. (2024) Cytoneme signaling provides essential contributions to mammalian tissue patterning. *Cell*, 187(2), 276.

Gómez HF, et al. (2023) Time-lapse and cleared imaging of mouse embryonic lung explants to study three-dimensional cell morphology and topology dynamics. *STAR protocols*, 4(2), 102187.

He H, et al. (2023) PRDM3/16 Regulate Chromatin Accessibility Required for NKX2-1 Mediated Alveolar Epithelial Differentiation and Function. *bioRxiv : the preprint server for biology*.

Tang XZ, et al. (2022) Bronchus-associated macrophages efficiently capture and present soluble inhaled antigens and are capable of local Th2 cell activation. *eLife*, 11.

Zhang K, et al. (2022) mTORC1 signaling facilitates differential stem cell differentiation to shape the developing murine lung and is associated with mitochondrial capacity. *Nature communications*, 13(1), 7252.

Zhang K, et al. (2022) Wnt5a-Vangl1/2 signaling regulates the position and direction of lung branching through the cytoskeleton and focal adhesions. *PLoS biology*, 20(8), e3001759.

Ramachandran J, et al. (2022) Hedgehog regulation of epithelial cell state and morphogenesis in the larynx. *eLife*, 11.

Zhu J, et al. (2022) Sonic hedgehog is not a limb morphogen but acts as a trigger to specify all digits in mice. *Developmental cell*, 57(17), 2048.

Xie C, et al. (2021) Endoderm development requires centrioles to restrain p53-mediated apoptosis in the absence of ERK activity. *Developmental cell*, 56(24), 3334.

Kiyokawa H, et al. (2021) Airway basal stem cells reutilize the embryonic proliferation regulator, Tgf β -Id2 axis, for tissue regeneration. *Developmental cell*, 56(13), 1917.

Pourchet O, et al. (2021) Loss of floor plate Netrin-1 impairs midline crossing of corticospinal axons and leads to mirror movements. *Cell reports*, 34(3), 108654.

Rankin SA, et al. (2021) Tbx5 drives Aldh1a2 expression to regulate a RA-Hedgehog-Wnt gene regulatory network coordinating cardiopulmonary development. *eLife*, 10.

Brignani S, et al. (2020) Remotely Produced and Axon-Derived Netrin-1 Instructs GABAergic Neuron Migration and Dopaminergic Substantia Nigra Development. *Neuron*, 107(4), 684.

Li C, et al. (2020) Comprehensive transcriptome analysis of cochlear spiral ganglion neurons at multiple ages. *eLife*, 9.

Sadier A, et al. (2019) Modeling Edar expression reveals the hidden dynamics of tooth signaling center patterning. *PLoS biology*, 17(2), e3000064.

Joseph DB, et al. (2019) Epithelial DNA methyltransferase-1 regulates cell survival, growth and maturation in developing prostatic buds. *Developmental biology*, 447(2), 157.

Wu Z, et al. (2019) Long-Range Guidance of Spinal Commissural Axons by Netrin1 and Sonic Hedgehog from Midline Floor Plate Cells. *Neuron*, 101(4), 635.