

Resource Summary Report

Generated by [NIF](#) on Jul 31, 2026

B6.129S6-Shh^{tm2}(cre/ERT2)Cjt/J

RRID:IMSR_JAX:005623

Type: Organism

Proper Citation

RRID:IMSR_JAX:005623

Organism Information

URL: <https://www.jax.org/strain/005623>

Proper Citation: RRID:IMSR_JAX:005623

Description: Mus musculus with name B6.129S6-Shh^{tm2}(cre/ERT2)Cjt/J from IMSR.

Species: Mus musculus

Synonyms: B6.129S-Shh/J. B6.129S-Shh/J

Notes: gene symbol note: Cre recombinase and estrogen receptor 1 (human) fusion gene|sonic hedgehog; mutant strain|congenic strain: cre/ERT2|Shh

Affected Gene: Cre recombinase and estrogen receptor 1 (human) fusion gene|sonic hedgehog

Genomic Alteration: targeted mutation 2; Clifford J Tabin

Catalog Number: JAX:005623

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129S6-Shh^{tm2}(cre/ERT2)Cjt/J

Record Creation Time: 20250513T053651+0000

Record Last Update: 20260725T044401+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S6-Shh^{tm2(cre/ERT2)Cjt/J}.

No alerts have been found for B6.129S6-Shh^{tm2(cre/ERT2)Cjt/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 16 mentions in open access literature.

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

Kong W, et al. (2025) Neuroendocrine cells orchestrate regeneration through Desert hedgehog signaling. *Cell*, 188(18), 5020.

Chovatiya G, et al. (2025) Cell-type-specific RNA polymerase II activity maps in intact tissues provide a gateway to mammalian gene regulatory mechanisms in vivo. *Developmental cell*.

Huycke TR, et al. (2024) Patterning and folding of intestinal villi by active mesenchymal dewetting. *Cell*, 187(12), 3072.

Han J, et al. (2023) Distinct bulge stem cell populations maintain the pilosebaceous unit in a β -catenin-dependent manner. *iScience*, 26(1), 105805.

Xu J, et al. (2022) Excess neuropeptides in lung signal through endothelial cells to impair gas exchange. *Developmental cell*, 57(7), 839.

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

Xie Y, et al. (2022) Astrocyte-neuron crosstalk through Hedgehog signaling mediates cortical synapse development. *Cell reports*, 38(8), 110416.

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 Y, et al. (2022) Hair shaft miniaturization causes stem cell depletion through mechanosensory signals mediated by a Piezo1-calcium-TNF- α axis. *Cell stem cell*, 29(1), 70.

Maan ZN, et al. (2021) Epidermal-Derived Hedgehog Signaling Drives Mesenchymal Proliferation during Digit Tip Regeneration. *Journal of clinical medicine*, 10(18).

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

Holguin N, et al. (2018) In-Vivo Nucleus Pulposus-Specific Regulation of Adult Murine Intervertebral Disc Degeneration via Wnt/Beta-Catenin Signaling. *Scientific reports*, 8(1), 11191.

Huang M, et al. (2018) Multiple roles of epithelial heparan sulfate in stomach morphogenesis. *Journal of cell science*, 131(10).

Wang S, et al. (2018) Radial WNT5A-Guided Post-mitotic Filopodial Pathfinding Is Critical for Midgut Tube Elongation. *Developmental cell*, 46(2), 173.

Castillo-Azofeifa D, et al. (2017) Sonic hedgehog from both nerves and epithelium is a key trophic factor for taste bud maintenance. *Development (Cambridge, England)*, 144(17), 3054.

Cox BC, et al. (2012) Conditional gene expression in the mouse inner ear using Cre-loxP. *Journal of the Association for Research in Otolaryngology : JARO*, 13(3), 295.