Resource Summary Report

Generated by FDI Lab - SciCrunch.org on May 14, 2025

STOCK Ptch1^{tm1Mps}/J

RRID:IMSR_JAX:003081
Type: Organism

Proper Citation

RRID:IMSR_JAX:003081

Organism Information

URL: https://www.jax.org/strain/003081

Proper Citation: RRID:IMSR_JAX:003081

Description: Mus musculus with name STOCK Ptch1^{tm1Mps}/J from IMSR.

Species: Mus musculus

Synonyms: B6;129-Ptch1/J. B6;129-Ptch/J

Notes: gene symbol note: patched 1|beta-galactosidase; mutant stock: Ptch1|lacZ

Affected Gene: patched 1|beta-galactosidase

Genomic Alteration: targeted mutation 1; Matthew P Scott

Catalog Number: JAX:003081

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: STOCK Ptch1^{tm1Mps}/J

Record Creation Time: 20250513T053637+0000

Record Last Update: 20250513T053749+0000

Ratings and Alerts

No rating or validation information has been found for STOCK Ptch1^{tm1Mps}/J.

No alerts have been found for STOCK Ptch1^{tm1Mps}/J.

Data and Source Information

Source: Integrated Animals

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 15 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Shiraishi R, et al. (2024) Cancer-specific epigenome identifies oncogenic hijacking by nuclear factor I family proteins for medulloblastoma progression. Developmental cell, 59(17), 2302.

Yang F, et al. (2022) A Druggable UHRF1/DNMT1/GLI Complex Regulates Sonic Hedgehog-Dependent Tumor Growth. Molecular cancer research : MCR, 20(11), 1598.

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.

George J, et al. (2022) Cancer stem cells, not bulk tumor cells, determine mechanisms of resistance to SMO inhibitors. Cancer research communications, 2(6), 402.

Luo W, et al. (2021) Single-cell spatial transcriptomic analysis reveals common and divergent features of developing postnatal granule cerebellar cells and medulloblastoma. BMC biology, 19(1), 135.

Fujii K, et al. (2021) Controlling tissue patterning by translational regulation of signaling transcripts through the core translation factor eIF3c. Developmental cell, 56(21), 2928.

Somatilaka BN, et al. (2020) Ankmy2 Prevents Smoothened-Independent Hyperactivation of the Hedgehog Pathway via Cilia-Regulated Adenylyl Cyclase Signaling. Developmental cell, 54(6), 710.

Selvadurai HJ, et al. (2020) Medulloblastoma Arises from the Persistence of a Rare and Transient Sox2+ Granule Neuron Precursor. Cell reports, 31(2), 107511.

Yao M, et al. (2020) Astrocytic trans-Differentiation Completes a Multicellular Paracrine

Feedback Loop Required for Medulloblastoma Tumor Growth. Cell, 180(3), 502.

Zhu D, et al. (2018) BAI1 Suppresses Medulloblastoma Formation by Protecting p53 from Mdm2-Mediated Degradation. Cancer cell, 33(6), 1004.

Kopinke D, et al. (2017) Ciliary Hedgehog Signaling Restricts Injury-Induced Adipogenesis. Cell, 170(2), 340.

Brennan-Crispi DM, et al. (2015) Crosstalk between Desmoglein 2 and Patched 1 accelerates chemical-induced skin tumorigenesis. Oncotarget, 6(11), 8593.

Yang R, et al. (2015) Cell Division Mode Change Mediates the Regulation of Cerebellar Granule Neurogenesis Controlled by the Sonic Hedgehog Signaling. Stem cell reports, 5(5), 816.

Lastowska M, et al. (2013) Identification of a neuronal transcription factor network involved in medulloblastoma development. Acta neuropathologica communications, 1, 35.