

Resource Summary Report

Generated by [dkNET](#) on Sep 14, 2026

B6.129X1-Notch1^{tm2Rko}/GridJ

RRID:IMSR_JAX:007181

Type: Organism

Proper Citation

RRID:IMSR_JAX:007181

Organism Information

URL: <https://www.jax.org/strain/007181>

Proper Citation: RRID:IMSR_JAX:007181

Description: Mus musculus with name B6.129X1-Notch1^{tm2Rko}/GridJ from IMSR.

Species: Mus musculus

Notes: gene symbol note: notch 1; congenic strain: Notch1

Affected Gene: notch 1

Genomic Alteration: targeted mutation 2; Raphael Kopan

Catalog Number: JAX:007181

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129X1-Notch1^{tm2Rko}/GridJ

Record Creation Time: 20250513T053701+0000

Record Last Update: 20260912T060447+0000

Ratings and Alerts

No rating or validation information has been found for B6.129X1-Notch1^{tm2Rko}/GridJ.

No alerts have been found for B6.129X1-Notch1^{tm2Rko}/GridJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 8 mentions in open access literature.

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

Benamar M, et al. (2025) Notch3 destabilizes regulatory T cells to drive autoimmune neuroinflammation in multiple sclerosis. *Immunity*, 58(11), 2753.

Herms A, et al. (2024) Self-sustaining long-term 3D epithelioid cultures reveal drivers of clonal expansion in esophageal epithelium. *Nature genetics*, 56(10), 2158.

Raudales A, et al. (2024) Angiogenesis in the mature mouse cortex is governed in a regional- and Notch1-dependent manner. *Cell reports*, 43(12), 115029.

Ren S, et al. (2022) Blocking the Notch signal transduction pathway promotes tumor growth in breast cancer by promoting the expression of suppressible inflammatory factors. *Annals of translational medicine*, 10(6), 361.

Harb H, et al. (2021) Notch4 signaling limits regulatory T-cell-mediated tissue repair and promotes severe lung inflammation in viral infections. *Immunity*, 54(6), 1186.

Zhang T, et al. (2021) Generation of excitatory and inhibitory neurons from common progenitors via Notch signaling in the cerebellum. *Cell reports*, 35(10), 109208.

Wang C, et al. (2017) IL-17 induced NOTCH1 activation in oligodendrocyte progenitor cells enhances proliferation and inflammatory gene expression. *Nature communications*, 8, 15508.

Movahedan A, et al. (2013) Loss of Notch1 disrupts the barrier repair in the corneal epithelium. *PloS one*, 8(7), e69113.