

Resource Summary Report

Generated by [NIF](#) on Sep 9, 2026

B6.129S6-Ch25h^{tm1Rus}/J

RRID:IMSR_JAX:016263

Type: Organism

Proper Citation

RRID:IMSR_JAX:016263

Organism Information

URL: <https://www.jax.org/strain/016263>

Proper Citation: RRID:IMSR_JAX:016263

Description: Mus musculus with name B6.129S6-Ch25h^{tm1Rus}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: cholesterol 25-hydroxylase; mutant strain|congenic strain: Ch25h

Affected Gene: cholesterol 25-hydroxylase

Genomic Alteration: targeted mutation 1; David W Russell

Catalog Number: JAX:016263

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129S6-Ch25h^{tm1Rus}/J

Record Creation Time: 20250513T053730+0000

Record Last Update: 20260905T044513+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S6-Ch25h^{tm1Rus}/J.

No alerts have been found for B6.129S6-Ch25h^{tm1Rus}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Diercks AH, et al. (2024) Oxysterol binding protein regulates the resolution of TLR-induced cytokine production in macrophages. *Proceedings of the National Academy of Sciences of the United States of America*, 121(33), e2406492121.

Zhou S, et al. (2024) Pathogenic mycobacterium upregulates cholesterol 25-hydroxylase to promote granuloma development via foam cell formation. *iScience*, 27(3), 109204.

Xiao J, et al. (2024) 25-Hydroxycholesterol regulates lysosome AMP kinase activation and metabolic reprogramming to educate immunosuppressive macrophages. *Immunity*, 57(5), 1087.

Frascoli M, et al. (2023) Skin ?? T cell inflammatory responses are hardwired in the thymus by oxysterol sensing via GPR183 and calibrated by dietary cholesterol. *Immunity*, 56(3), 562.

Lu Z, et al. (2022) Tumor factors stimulate lysosomal degradation of tumor antigens and undermine their cross-presentation in lung cancer. *Nature communications*, 13(1), 6623.

Lu Z, et al. (2022) ATF3 and CH25H regulate effector trogocytosis and anti-tumor activities of endogenous and immunotherapeutic cytotoxic T lymphocytes. *Cell metabolism*, 34(9), 1342.

Trindade BC, et al. (2021) The cholesterol metabolite 25-hydroxycholesterol restrains the transcriptional regulator SREBP2 and limits intestinal IgA plasma cell differentiation. *Immunity*, 54(10), 2273.

Ji DX, et al. (2019) Type I interferon-driven susceptibility to *Mycobacterium tuberculosis* is mediated by IL-1Ra. *Nature microbiology*, 4(12), 2128.

Rodda LB, et al. (2018) Single-Cell RNA Sequencing of Lymph Node Stromal Cells Reveals Niche-Associated Heterogeneity. *Immunity*, 48(5), 1014.

Robertson KA, et al. (2016) An Interferon Regulated MicroRNA Provides Broad Cell-Intrinsic Antiviral Immunity through Multihit Host-Directed Targeting of the Sterol Pathway. *PLoS biology*, 14(3), e1002364.