

Resource Summary Report

Generated by [NIF](#) on Aug 16, 2026

C57BL/6J-Npc1^{nmf164}/J

RRID:IMSR_JAX:004817

Type: Organism

Proper Citation

RRID:IMSR_JAX:004817

Organism Information

URL: <https://www.jax.org/strain/004817>

Proper Citation: RRID:IMSR_JAX:004817

Description: Mus musculus with name C57BL/6J-Npc1^{nmf164}/J from IMSR.

Species: Mus musculus

Synonyms: C57BL/6J-nmf164/J. C57BL/6J-Npc1/J. NMF164

Notes: gene symbol note: NPC intracellular cholesterol transporter 1; coisogenic strain|mutant strain: Npc1

Affected Gene: NPC intracellular cholesterol transporter 1

Genomic Alteration: neuroscience mutagenesis facility; 164

Catalog Number: JAX:004817

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: embryo

Organism Name: C57BL/6J-Npc1^{nmf164}/J

Record Creation Time: 20250513T053646+0000

Record Last Update: 20260815T050558+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6J-Npc1^{nmf164}/J.

No alerts have been found for C57BL/6J-Npc1^{nmf164}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Kim S, et al. (2023) Disruptive lysosomal-metabolic signaling and neurodevelopmental deficits that precede Purkinje cell loss in a mouse model of Niemann-Pick Type-C disease. Scientific reports, 13(1), 5665.

Chen FW, et al. (2022) Activation of mitochondrial TRAP1 stimulates mitochondria-lysosome crosstalk and correction of lysosomal dysfunction. iScience, 25(9), 104941.

Boyle BR, et al. (2020) NPC1 deficiency impairs cerebellar postnatal development of microglia and climbing fiber refinement in a mouse model of Niemann-Pick disease type C. Development (Cambridge, England), 147(21).

Bartoll A, et al. (2020) Inhibition of fatty acid amide hydrolase prevents pathology in neurovisceral acid sphingomyelinase deficiency by rescuing defective endocannabinoid signaling. EMBO molecular medicine, 12(11), e11776.

Kavetsky L, et al. (2019) Increased interactions and engulfment of dendrites by microglia precede Purkinje cell degeneration in a mouse model of Niemann Pick Type-C. Scientific reports, 9(1), 14722.

Marques AR, et al. (2016) Gpnmb Is a Potential Marker for the Visceral Pathology in Niemann-Pick Type C Disease. PloS one, 11(1), e0147208.