

Resource Summary Report

Generated by [NIF](#) on Aug 30, 2026

C57BL/6-Nfe2l2^{tm1.1Sred}/SbisJ

RRID:IMSR_JAX:025433

Type: Organism

Proper Citation

RRID:IMSR_JAX:025433

Organism Information

URL: <https://www.jax.org/strain/025433>

Proper Citation: RRID:IMSR_JAX:025433

Description: Mus musculus with name C57BL/6-Nfe2l2^{tm1.1Sred}/SbisJ from IMSR.

Species: Mus musculus

Notes: gene symbol note: nuclear factor; erythroid derived 2; like 2; coisogenic strain|mutant strain: Nfe2l2

Affected Gene: nuclear factor; erythroid derived 2; like 2

Genomic Alteration: targeted mutation 1.1; Sekhar P Reddy

Catalog Number: JAX:025433

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/6-Nfe2l2^{tm1.1Sred}/SbisJ

Record Creation Time: 20250513T053754+0000

Record Last Update: 20260829T045105+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/6-Nfe2l2^{tm1.1Sred}/SbisJ.

No alerts have been found for C57BL/6-Nfe2l2^{tm1.1Sred}/SbisJ.

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 [NIF](#) .

Zhang YJ, et al. (2026) Spermidine alleviates ethanol-induced hepatocyte ferroptosis by restoring hepatic iron homeostasis via the gut-liver axis. *Phytomedicine : international journal of phytotherapy and phytopharmacology*, 152, 157853.

Pham LK, et al. (2026) NRF2-mediated inhibition of alveolar macrophage MHC II expression during *Mycobacterium tuberculosis* infection. *Cell reports*, 45(6), 117397.

Sarad K, et al. (2025) Endothelial Nrf2 deficiency promotes atherosclerotic lesion formation by shaping a proinflammatory niche. *Life sciences*, 375, 123725.

Phelps CM, et al. (2025) Exercise-induced microbiota metabolite enhances CD8 T cell antitumor immunity promoting immunotherapy efficacy. *Cell*.

Zou H, et al. (2025) Endothelial cell Nrf2 controls neuroinflammation following a systemic insult. *iScience*, 28(6), 112630.

Haidery F, et al. (2025) NRF2 deficiency leads to inadequate beta cell adaptation during pregnancy and gestational diabetes. *Redox biology*, 81, 103566.

Hegde S, et al. (2025) Myeloid progenitor dysregulation fuels immunosuppressive macrophages in tumours. *Nature*, 646(8087), 1214.

Baumel-Alterzon S, et al. (2024) NRF2 is required for neonatal mouse beta cell growth by maintaining redox balance and promoting mitochondrial biogenesis and function. *Diabetologia*, 67(3), 547.

Hegde S, et al. (2024) Myeloid progenitor dysregulation fuels immunosuppressive macrophages in tumors. *bioRxiv : the preprint server for biology*.

Molina-Gonzalez I, et al. (2023) Astrocyte-oligodendrocyte interaction regulates central nervous system regeneration. *Nature communications*, 14(1), 3372.

DeBlasi JM, et al. (2023) Distinct Nrf2 Signaling Thresholds Mediate Lung Tumor Initiation and Progression. *Cancer research*, 83(12), 1953.

Baumel-Alterzon S, et al. (2023) NRF2 Dysregulation in Mice Leads to Inadequate Beta-Cell Mass Expansion during Pregnancy and Gestational Diabetes. *bioRxiv : the preprint server for biology*.

Ide S, et al. (2022) Sex differences in resilience to ferroptosis underlie sexual dimorphism in kidney injury and repair. *Cell reports*, 41(6), 111610.

Baumel-Alterzon S, et al. (2022) Nrf2 Regulates β -Cell Mass by Suppressing β -Cell Death and Promoting β -Cell Proliferation. *Diabetes*, 71(5), 989.

Eisenstein A, et al. (2022) Activation of the transcription factor NRF2 mediates the anti-inflammatory properties of a subset of over-the-counter and prescription NSAIDs. *Immunity*, 55(6), 1082.