# Resource Summary Report

Generated by RRID on Jul 30, 2026

## B6.129X1-Nfe2l2$^{tm1Ywk}$/J

RRID:IMSR_JAX:017009
Type: Organism

### Proper Citation

RRID:IMSR_JAX:017009

### Organism Information

**URL:** https://www.jax.org/strain/017009

**Proper Citation:** RRID:IMSR_JAX:017009

**Description:** Mus musculus with name B6.129X1-Nfe2l2$^{tm1Ywk}$/J from IMSR.

**Species:** Mus musculus

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

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

**Genomic Alteration:** targeted mutation 1; Yuet Wai Kan

**Catalog Number:** JAX:017009

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** live

**Organism Name:** B6.129X1-Nfe2l2$^{tm1Ywk}$/J

**Record Creation Time:** 20250513T053731+0000

**Record Last Update:** 20260725T044440+0000

### Ratings and Alerts

No rating or validation information has been found for B6.129X1-Nfe2l2$^{tm1Ywk}$/J.

No alerts have been found for B6.129X1-Nfe2l2$^{tm1Ywk}$/J.

## Data and Source Information

**Source:** Integrated Animals

**Source Database:** JAX Mice and Services

## Usage and Citation Metrics

We found 125 mentions in open access literature.

**Listed below are recent publications.** The full list is available at RRID .


Kusano K, et al. (2026) Metabolic Syndrome Develops Cardia Cancer via Nuclear Factor-E2-related Factor 2-Programmed Death-Ligand 1 Signaling. Cellular and molecular gastroenterology and hepatology, 20(1), 101629.

Feng J, et al. (2026) The electrophilic metabolite of kynurenine, kynurenine-CKA, requires C151 in Keap1 to derepress Nrf2. Redox biology, 90, 104009.

Tripathi A, et al. (2025) Nrf2 drives activation-driven expansion of CD4+T cells by modulating glucose and glutamine metabolism. Cell reports, 44(9), 116177.

Sato T, et al. (2025) Intestinal epithelial cell-specific restoration of Nrf2 gene in whole-body-knockout mice ameliorates acute colitis. Experimental animals, 74(3), 335.

Schaer DJ, et al. (2025) Stress-NRF2 response axis polarizes tumor macrophages and undermines immunotherapy. Journal for immunotherapy of cancer, 13(10).

Strazielle N, et al. (2025) The glutathione-dependent neuroprotective activity of the blood-CSF barrier is inducible through the Nrf2 signaling pathway during postnatal development. Fluids and barriers of the CNS, 22(1), 19.

Yang H, et al. (2025) Nrf2 deficiency enhances oxidative stress and promotes susceptibility to tinnitus in mice. Scientific reports, 15(1), 16474.

Asensio-Lopez MDC, et al. (2025) AEOL-induced NRF2 activation and DWORF overexpression mitigate myocardial I/R injury. Molecular medicine (Cambridge, Mass.), 31(1), 189.

Li S, et al. (2025) 5-methoxytryptophan ameliorates renal ischemia/reperfusion injury by alleviating endoplasmic reticulum stress-mediated apoptosis through the Nrf2/HO-1 pathway. Frontiers in pharmacology, 16, 1506482.

Kaseda S, et al. (2025) Efficacy of Nrf2 activation in a proteinuric Alport syndrome mouse model. Life science alliance, 8(8).

Di R, et al. (2025) A mechano-resistance mechanism in skin adapts to terrestrial locomotion. Cell.

Feng J, et al. (2025) The electrophilic metabolite of kynurenine, kynurenine-CKA, targets C151 in Keap1 to derepress Nrf2. bioRxiv : the preprint server for biology.

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

Latreille E, et al. (2025) Phenotypic screening in influenza-infected zebrafish identifies Nrf2-mediated compound protective against ischemia-reperfusion injury. iScience, 28(8), 113065.

Wang T, et al. (2024) Dimethyl fumarate improves cognitive impairment and neuroinflammation in mice with Alzheimer's disease. Journal of neuroinflammation, 21(1), 55.

Kumar B, et al. (2024) Retinal Penetrating Adeno-Associated Virus. Investigative ophthalmology & visual science, 65(10), 30.

Jiménez-Jiménez FJ, et al. (2024) Oxidative Stress Markers in Multiple Sclerosis. International journal of molecular sciences, 25(12).

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.

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

Chihara K, et al. (2023) Macrophage specific restoration of the Nrf2 gene in whole-body knockout mice ameliorates steatohepatitis induced by lipopolysaccharide from Porphyromonas gingivalis through enhanced hepatic clearance. PloS one, 18(10), e0291880.