

# Resource Summary Report

Generated by [ASWG](#) on Aug 9, 2026

## B6.129P2-Nos2<sup>tm1Lau/J</sup>

RRID:IMSR\_JAX:002609

Type: Organism

### Proper Citation

RRID:IMSR\_JAX:002609

### Organism Information

**URL:** <https://www.jax.org/strain/002609>

**Proper Citation:** RRID:IMSR\_JAX:002609

**Description:** Mus musculus with name B6.129P2-Nos2<sup>tm1Lau/J</sup> from IMSR.

**Species:** Mus musculus

**Notes:** gene symbol note: nitric oxide synthase 2; inducible; mutant strain|congenic strain: Nos2

**Affected Gene:** nitric oxide synthase 2; inducible

**Genomic Alteration:** targeted mutation 1; Victor E Laubach

**Catalog Number:** JAX:002609

**Database:** JAX Mice and Services

**Database Abbreviation:** JAX

**Availability:** live

**Organism Name:** B6.129P2-Nos2<sup>tm1Lau/J</sup>

**Record Creation Time:** 20250513T053633+0000

**Record Last Update:** 20260808T050835+0000

### Ratings and Alerts

No rating or validation information has been found for B6.129P2-Nos2<sup>tm1Lau/J</sup>.

No alerts have been found for B6.129P2-Nos2<sup>tm1Lau/J</sup>.

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## Data and Source Information

**Source:** [Integrated Animals](#)

**Source Database:** JAX Mice and Services

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## Usage and Citation Metrics

We found 105 mentions in open access literature.

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

Palacios HH, et al. (2026) Nitric oxide required for transition to slower hepatic protein synthesis rates during long-term caloric restriction. *The Journal of clinical investigation*, 136(1).

Chang TK, et al. (2026) TOP2 and NOS2 Orchestrate the Generation of DNA Breaks to Promote Colitis Cancer Initiation. *Cancers*, 18(10).

Arp NL, et al. (2026) Multi-omic analysis reveals nitric oxide dependent remodeling in classically activated macrophages and identifies negative regulation mediated by AKR1A1. *bioRxiv : the preprint server for biology*.

Makafe GG, et al. (2026) Mouse models of tuberculosis uniformly featuring hypoxic necrotic lesions and poor response to chemotherapy. *Infection and immunity*, 94(3), e0057425.

Qian Q, et al. (2026) Obesity-associated lysosomal nitrosative stress promotes retinopathy. *Biology direct*, 21(1).

Arp NL, et al. (2026) Multi-omic analysis reveals nitric oxide dependent remodeling in classically activated macrophages and identifies negative regulation mediated by AKR1A1. *Redox biology*, 93, 104181.

Pruss KM, et al. (2026) Enteropathy produced in mice by intergenerational transmission of small intestinal microbiota from undernourished children. *Nature microbiology*, 11(7), 1967.

Kureshi CTS, et al. (2026) Dendritic cell redundancy enables priming of anti-tumor CD4+ T cells in pancreatic cancer. *Cancer cell*, 44(7), 1381.

Davanzo GG, et al. (2026) Temporal control of macrophage pro-inflammatory phenotype by a biphasic HIF-1 $\alpha$  regulatory program. *Molecular cell*.

Lempke SL, et al. (2025) Cysteine-S-nitrosylation inhibits Rop5-mediated immune evasion in *Toxoplasma gondii*. *bioRxiv : the preprint server for biology*.

Makafe GG, et al. (2025) Mouse Models Uniformly Featuring Human-like Lesions Harboring Drug-tolerant *Mycobacterium tuberculosis*. *bioRxiv : the preprint server for biology*.

Ananth MR, et al. (2025) A central role for acetylcholine in entorhinal cortex function and dysfunction with age in humans and mice. *Cell reports*, 44(2), 115249.

Ting KKY, et al. (2024) Cholesterol accumulation impairs HIF-1 $\alpha$ -dependent immunometabolic reprogramming of LPS-stimulated macrophages by upregulating the NRF2 pathway. *Scientific reports*, 14(1), 11162.

Zhao XY, et al. (2024) iNOS is necessary for GBP-mediated *T. gondii* clearance in murine macrophages via vacuole nitration and intravacuolar network collapse. *Nature communications*, 15(1), 2698.

Cao EY, et al. (2024) The protozoan commensal *Tritrichomonas musculus* is a natural adjuvant for mucosal IgA. *The Journal of experimental medicine*, 221(12).

Pisu D, et al. (2024) The frequency of CD38<sup>+</sup> alveolar macrophages correlates with early control of *M. tuberculosis* in the murine lung. *Nature communications*, 15(1), 8522.

Pathak A, et al. (2024)  $\gamma$ -aminobutyric acid receptor B signaling drives glioblastoma in females in an immune-dependent manner. *bioRxiv : the preprint server for biology*.

Russell D, et al. (2024) CD38<sup>+</sup> Alveolar macrophages mediate early control of *M. tuberculosis* proliferation in the lung. *Research square*.

van Elsas MJ, et al. (2024) Immunotherapy-activated T cells recruit and skew late-stage activated M1-like macrophages that are critical for therapeutic efficacy. *Cancer cell*, 42(6), 1032.

John SV, et al. (2023) Macrophages undergo functionally significant reprogramming of nucleotide metabolism upon classical activation. *bioRxiv : the preprint server for biology*.