

Resource Summary Report

Generated by [NIF](#) on Sep 13, 2026

B6.129P2-Nod1^{tm1Inoh}/MakJ

RRID:IMSR_JAX:031732

Type: Organism

Proper Citation

RRID:IMSR_JAX:031732

Organism Information

URL: <https://www.jax.org/strain/031732>

Proper Citation: RRID:IMSR_JAX:031732

Description: Mus musculus with name B6.129P2-Nod1^{tm1Inoh}/MakJ from IMSR.

Species: Mus musculus

Notes: gene symbol note: nucleotide-binding oligomerization domain containing 1; mutant strain|congenic strain: Nod1

Affected Gene: nucleotide-binding oligomerization domain containing 1

Genomic Alteration: targeted mutation 1; Naohiro Inohara

Catalog Number: JAX:031732

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: sperm

Organism Name: B6.129P2-Nod1^{tm1Inoh}/MakJ

Record Creation Time: 20250513T053824+0000

Record Last Update: 20260912T060559+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2-Nod1^{tm1Inoh}/MakJ.

No alerts have been found for B6.129P2-Nod1^{tm1Inoh}/MakJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 29 mentions in open access literature.

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

Gil-Fernández M, et al. (2026) NOD1 is a key mediator of atrial myopathy in heart failure. *Theranostics*, 16(13), 7244.

Xie W, et al. (2026) NOD1 modulates chronic obstructive pulmonary disease progression via FOXA1/NLRP3-mediated regulation of pyroptosis. *Frontiers in immunology*, 17, 1800191.

Zhang Y, et al. (2026) Cationic microparticles inhibit local sterile inflammation in tissue injuries. *Regenerative biomaterials*, 13, rbaf135.

Pathirana R, et al. (2026) *Helicobacter pylori* induces the production of interleukin-37 to promote broad immunosuppression and enhance colonization. *Gut microbes*, 18(1), 2618860.

Valério-Bolas A, et al. (2024) Exploiting Leishmania-Primed Dendritic Cells as Potential Immunomodulators of Canine Immune Response. *Cells*, 13(5).

Zhuang J, et al. (2024) Membrane-associated RING-CH 7 inhibits stem-like capacities of bladder cancer cells by interacting with nucleotide-binding oligomerization domain containing 1. *Cell & bioscience*, 14(1), 32.

Duarte ME, et al. (2024) Efficacy of *Saccharomyces* yeast postbiotics on cell turnover, immune responses, and oxidative stress in the jejunal mucosa of young pigs. *Scientific reports*, 14(1), 19235.

Delyea CJ, et al. (2024) The *Salmonella* Effector SspH2 Facilitates Spatially Selective Ubiquitination of NOD1 to Enhance Inflammatory Signaling. *Biochemistry*, 63(18), 2266.

Hong H, et al. (2024) Pyroptosis-related lncRNAs are potential biomarkers for predicting prognoses and immune landscapes in patients with gastric adenocarcinoma. *Discover oncology*, 15(1), 684.

Sandanusova M, et al. (2024) Growth phase matters: Boosting immunity via *Lactobacillus*-derived membrane vesicles and their interactions with TLR2 pathways. *Journal of extracellular biology*, 3(8), e169.

Schiffmann D, et al. (2023) Endurance Exercise Attenuates Established Progressive Experimental Autoimmune Encephalomyelitis and Is Associated with an Amelioration of Innate Immune Responses in NOD Mice. *International journal of molecular sciences*,

24(21).

Swain B, et al. (2023) Recombinant Attenuated *Edwardsiella piscicida* Vaccine Displaying Regulated Lysis to Confer Biological Containment and Protect Catfish against *Edwardsiellosis*. *Vaccines*, 11(9).

Ghasemi M, et al. (2022) Mesoporous silica nano-adjuvant triggers pro-inflammatory responses in Caco-2/peripheral blood mononuclear cell (PBMC) co-cultures. *Nanobiomedicine*, 9, 18495435221088374.

Gilmore WJ, et al. (2022) *Bacteroides fragilis* outer membrane vesicles preferentially activate innate immune receptors compared to their parent bacteria. *Frontiers in immunology*, 13, 970725.

Guzelj S, et al. (2021) Structural Fine-Tuning of Desmuramylpeptide NOD2 Agonists Defines Their In Vivo Adjuvant Activity. *Journal of medicinal chemistry*, 64(11), 7809.

Agier J, et al. (2021) Mast cell phenotypic plasticity and their activity under the influence of cathelicidin-related antimicrobial peptide (CRAMP) and IL-33 alarmins. *Cellular immunology*, 369, 104424.

Guzelj S, et al. (2020) Structural features and functional activities of benzimidazoles as NOD2 antagonists. *European journal of medicinal chemistry*, 190, 112089.

González-Ramos S, et al. (2020) NOD1 deficiency promotes an imbalance of thyroid hormones and microbiota homeostasis in mice fed high fat diet. *Scientific reports*, 10(1), 12317.

Martin-Gallausiaux C, et al. (2020) *Fusobacterium nucleatum* Extracellular Vesicles Modulate Gut Epithelial Cell Innate Immunity via FomA and TLR2. *Frontiers in immunology*, 11, 583644.

S?otwi?ski R, et al. (2020) Association between disease-related malnutrition and innate immunity gene expression in critically ill patients at intensive care unit admission. *Central-European journal of immunology*, 45(4), 414.