

Resource Summary Report

Generated by [RRID](#) on Jul 29, 2026

B6.129S6-Nlrp3^{tm1Bhk}/J

RRID:IMSR_JAX:021302

Type: Organism

Proper Citation

RRID:IMSR_JAX:021302

Organism Information

URL: <https://www.jax.org/strain/021302>

Proper Citation: RRID:IMSR_JAX:021302

Description: Mus musculus with name B6.129S6-Nlrp3^{tm1Bhk}/J from IMSR.

Species: Mus musculus

Notes: gene symbol note: NLR family; pyrin domain containing 3; mutant strain|congenic strain: Nlrp3

Affected Gene: NLR family; pyrin domain containing 3

Genomic Alteration: targeted mutation 1; Beverly H Koller

Catalog Number: JAX:021302

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S6-Nlrp3^{tm1Bhk}/J

Record Creation Time: 20250513T053743+0000

Record Last Update: 20260725T044450+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S6-Nlrp3^{tm1Bhk}/J.

No alerts have been found for B6.129S6-Nlrp3^{tm1Bhk}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 246 mentions in open access literature.

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

Kechagioglou P, et al. (2025) CETSA-MS unveils novel targets engaged by rigosertib to promote anti-tumor activity and inflammatory responses. *iScience*, 28(6), 112748.

Zhou Z, et al. (2025) The Effect of GB1 on DSS-Induced Colitis in WT and Nlrp3^{-/-} Mice. *International journal of molecular sciences*, 26(9).

Accogli T, et al. (2025) The intrinsic expression of NLRP3 in Th17 cells promotes their protumor activity and conversion into Tregs. *Cellular & molecular immunology*, 22(5), 541.

Restrepo Munera J, et al. (2025) Germinal Center B cells provide essential IL-1 γ signals to TFH cells via canonical NLRP3 inflammasome activity post influenza infection. *PLoS pathogens*, 21(8), e1013404.

Pizzuto M, et al. (2025) Cardiolipin inhibits the non-canonical inflammasome by preventing LPS binding to caspase-4/11. *The EMBO journal*, 44(16), 4419.

Mukhi D, et al. (2025) The actin and microtubule network regulator WHAMM is identified as a key kidney disease risk gene. *Cell reports*, 44(4), 115462.

Boccia T, et al. (2025) Adjuvant conditioning shapes the adaptive immune response promoting immunotolerance via NLRP3/interleukin-1. *iScience*, 28(6), 112653.

Wright SS, et al. (2025) Transplantation of gasdermin pores by extracellular vesicles propagates pyroptosis to bystander cells. *Cell*, 188(2), 280.

McCright SJ, et al. (2025) Dietary saturated fatty acids promote lung myeloid cell inflammasome activation and IL-1 γ -mediated inflammation in mice and humans. *Science translational medicine*, 17(813), eadp5653.

O'Keefe ME, et al. (2025) Restraint of inflammasome-driven cytokine responses through the mRNA stability protein TTP. *Cell reports*, 44(3), 115340.

Yeap HW, et al. (2025) A bacterial network of T3SS effectors counteracts host pro-inflammatory responses and cell death to promote infection. *The EMBO journal*, 44(9), 2424.

Goris M, et al. (2024) NLRP1-dependent activation of Gasdermin D in neutrophils controls cutaneous leishmaniasis. *PLoS pathogens*, 20(9), e1012527.

Srinivasan S, et al. (2024) Inflammasome signaling is dispensable for β -amyloid-induced neuropathology in preclinical models of Alzheimer's disease. *Frontiers in immunology*, 15, 1323409.

Wong MP, et al. (2024) The inflammasome pathway is activated by dengue virus non-structural protein 1 and is protective during dengue virus infection. *PLoS pathogens*, 20(4), e1012167.

Bauer R, et al. (2024) NLRP3 promotes allergic responses to birch pollen extract in a model of intranasal sensitization. *Frontiers in immunology*, 15, 1393819.

Hu H, et al. (2024) Dimethyl fumarate covalently modifies Cys673 of NLRP3 to exert anti-inflammatory effects. *iScience*, 27(4), 109544.

Huang ST, et al. (2024) NLRP3 deficiency aggravated DNFB-induced chronic itch by enhancing type 2 immunity IL-4/TSLP-TRPA1 axis in mice. *Frontiers in immunology*, 15, 1450887.

D'Antongiovanni V, et al. (2024) Enteric glial NLRP3 inflammasome contributes to gut mucosal barrier alterations in a mouse model of diet-induced obesity. *Acta physiologica (Oxford, England)*, e14232.

Wang Y, et al. (2024) A pan-family screen of nuclear receptors in immunocytes reveals ligand-dependent inflammasome control. *Immunity*, 57(12), 2737.

Ramadan A, et al. (2023) The NLRP3 Inflammasome Is Required for Protection Against *Pseudomonas* Keratitis. *Investigative ophthalmology & visual science*, 64(2), 11.