

Resource Summary Report

Generated by [RRID](#) on Aug 28, 2026

pcDNA3-N-Flag-NLRP3

RRID:Addgene_75127

Type: Plasmid

Proper Citation

RRID:Addgene_75127

Plasmid Information

URL: <http://www.addgene.org/75127>

Proper Citation: RRID:Addgene_75127

Insert Name: NLR family, pyrin domain containing 3

Organism: Mus musculus

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:26642356](#)

Vector Backbone Description: Backbone Size:5446; Vector Backbone:pcDNA3; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3-N-Flag-NLRP3

Record Creation Time: 20220422T222457+0000

Record Last Update: 20260815T081942+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-N-Flag-NLRP3.

No alerts have been found for pcDNA3-N-Flag-NLRP3.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 20 mentions in open access literature.

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

Zhang Y, et al. (2026) NEK7 Cys298 is important for NLRP3 inflammasome and targetable by dimethyl fumarate. *Cell chemical biology*, 33(5), 711.

Liu W, et al. (2026) Aerobic glycolysis promotes NLRP3 inflammasome activation via NLRP3 lactylation. *Cell chemical biology*, 33(2), 213.

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.

Yu T, et al. (2024) NLRP3 Cys126 palmitoylation by ZDHHC7 promotes inflammasome activation. *Cell reports*, 43(4), 114070.

Xu Y, et al. (2024) Design and Discovery of Novel NLRP3 Inhibitors and PET Imaging Radiotracers Based on a 1,2,3-Triazole-Bearing Scaffold. *Journal of medicinal chemistry*, 67(1), 555.

Wei B, et al. (2024) NLRP3, NLRP6, and NLRP12 are inflammasomes with distinct expression patterns. *Frontiers in immunology*, 15, 1418290.

Guarnieri JW, et al. (2023) SARS-COV-2 viroporins activate the NLRP3-inflammasome by the mitochondrial permeability transition pore. *Frontiers in immunology*, 14, 1064293.

Wu X, et al. (2023) Secreted ORF8 induces monocytic pro-inflammatory cytokines through NLRP3 pathways in patients with severe COVID-19. *iScience*, 26(6), 106929.

Hsu CG, et al. (2022) The lipid peroxidation product 4-hydroxynonenal inhibits NLRP3 inflammasome activation and macrophage pyroptosis. *Cell death and differentiation*, 29(9), 1790.

Zhu L, et al. (2022) Toxoplasma gondii Rhoptry Protein 7 (ROP7) Interacts with NLRP3 and Promotes Inflammasome Hyperactivation in THP-1-Derived Macrophages. *Cells*, 11(10).

Panicker N, et al. (2022) Neuronal NLRP3 is a parkin substrate that drives neurodegeneration in Parkinson's disease. *Neuron*, 110(15), 2422.

Zhang L, et al. (2021) Peli1 facilitates NLRP3 inflammasome activation by mediating ASC ubiquitination. *Cell reports*, 37(4), 109904.

Hoofman A, et al. (2020) The Immunomodulatory Metabolite Itaconate Modifies NLRP3 and Inhibits Inflammasome Activation. *Cell metabolism*, 32(3), 468.

Christgen S, et al. (2020) Identification of the PANoptosome: A Molecular Platform Triggering Pyroptosis, Apoptosis, and Necroptosis (PANoptosis). *Frontiers in cellular and infection microbiology*, 10, 237.

Ming SL, et al. (2020) The Human-Specific STING Agonist G10 Activates Type I Interferon and the NLRP3 Inflammasome in Porcine Cells. *Frontiers in immunology*, 11, 575818.

Chai G, et al. (2020) NLRP3 Blockade Suppresses Pro-Inflammatory and Pro-Angiogenic Cytokine Secretion in Diabetic Retinopathy. *Diabetes, metabolic syndrome and obesity : targets and therapy*, 13, 3047.

Du RH, et al. (2019) The pore-forming subunit Kir6.1 of the K-ATP channel negatively regulates the NLRP3 inflammasome to control insulin resistance by interacting with NLRP3. *Experimental & molecular medicine*, 51(8), 1.

Hughes MM, et al. (2019) Glutathione Transferase Omega-1 Regulates NLRP3 Inflammasome Activation through NEK7 Deglutathionylation. *Cell reports*, 29(1), 151.

Carty M, et al. (2019) Cell Survival and Cytokine Release after Inflammasome Activation Is Regulated by the Toll-IL-1R Protein SARM. *Immunity*, 50(6), 1412.

Shi H, et al. (2016) Reconstruction of the Mouse Inflammasome System in HEK293T Cells. *Bio-protocol*, 6(21).