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.

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

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.

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.

Hooftman 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.

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.

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.

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).