

Resource Summary Report

Generated by [PRECISE-TBI](#) on Sep 5, 2026

pEGFP-C2-NLRP3

RRID:Addgene_73955

Type: Plasmid

Proper Citation

RRID:Addgene_73955

Plasmid Information

URL: <http://www.addgene.org/73955>

Proper Citation: RRID:Addgene_73955

Insert Name: NLR family, pyrin domain containing 3 (NLRP3)

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:22361007](#)

Vector Backbone Description: Backbone Marker:Clontech; Backbone Size:4700; Vector Backbone:pEGFP-C2; Vector Types:Mammalian Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pEGFP-C2-NLRP3

Record Creation Time: 20220422T222452+0000

Record Last Update: 20260905T080058+0000

Ratings and Alerts

No rating or validation information has been found for pEGFP-C2-NLRP3.

No alerts have been found for pEGFP-C2-NLRP3.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 14 mentions in open access literature.

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

Gravastrand CS, et al. (2026) GTPase Rab11b and effector Rab11-FIP2 promote NLRP3 stability during inflammasome priming. The EMBO journal, 45(9), 2991.

Maeder C, et al. (2025) Nitroxoline is a novel inhibitor of NLRP3-dependent pyroptosis. Cell death discovery, 11(1), 394.

Feng S, et al. (2025) Mechanisms of NLRP3 activation and inhibition elucidated by functional analysis of disease-associated variants. Nature immunology, 26(3), 511.

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

Liang Z, et al. (2024) Proximity proteomics reveals UCH-L1 as an essential regulator of NLRP3-mediated IL-1 β production in human macrophages and microglia. Cell reports, 43(5), 114152.

Sundaram B, et al. (2024) NLRC5 senses NAD⁺ depletion, forming a PANoptosome and driving PANoptosis and inflammation. Cell, 187(15), 4061.

Arumugam S, et al. (2022) GSK3 β mediates the spatiotemporal dynamics of NLRP3 inflammasome activation. Cell death and differentiation, 29(10), 2060.

Isazadeh M, et al. (2022) Split-luciferase complementary assay of NLRP3 PYD-PYD interaction indicates inflammasome formation during inflammation. Analytical biochemistry, 638, 114510.

Graustein AD, et al. (2021) Inflammasome Genetic Variants, Macrophage Function, and Clinical Outcomes in Cystic Fibrosis. American journal of respiratory cell and molecular biology, 65(2), 157.

Pei G, et al. (2021) Cellular stress promotes NOD1/2-dependent inflammation via the endogenous metabolite sphingosine-1-phosphate. The EMBO journal, 40(13), e106272.

Yuan R, et al. (2021) Cucurbitacin B inhibits non-small cell lung cancer in vivo and in vitro by triggering TLR4/NLRP3/GSDMD-dependent pyroptosis. Pharmacological research, 170, 105748.

Pachathundikandi SK, et al. (2020) Helicobacter pylori Avoids the Critical Activation of NLRP3 Inflammasome-Mediated Production of Oncogenic Mature IL-1 β in Human Immune Cells. Cancers, 12(4).

Darweesh M, et al. (2019) Adenovirus VA RNAI Blocks ASC Oligomerization and Inhibits NLRP3 Inflammasome Activation. Frontiers in immunology, 10, 2791.

Mehto S, et al. (2019) The Crohn's Disease Risk Factor IRGM Limits NLRP3 Inflammasome Activation by Impeding Its Assembly and by Mediating Its Selective Autophagy. Molecular cell, 73(3), 429.