

Resource Summary Report

Generated by [RRID](#) on Sep 1, 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: 20260829T081007+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 [RRID](#) .

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.