

Resource Summary Report

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

pcDNA3-N-Flag-Caspase-1

RRID:Addgene_75128

Type: Plasmid

Proper Citation

RRID:Addgene_75128

Plasmid Information

URL: <http://www.addgene.org/75128>

Proper Citation: RRID:Addgene_75128

Insert Name: caspase 1

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

Comments: Please note that mutation P341S in Caspase-1 was found during Addgene's quality control. The depositor noted that this mutation does NOT affect plasmid function.

Plasmid Name: pcDNA3-N-Flag-Caspase-1

Relevant Mutation: P341S in Caspase-1 (please see depositor comments below)

Record Creation Time: 20220422T222457+0000

Record Last Update: 20260815T081943+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-N-Flag-Caspase-1.

No alerts have been found for pcDNA3-N-Flag-Caspase-1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

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

Marques-da-Silva C, et al. (2024) Inherently Reduced Expression of ASC Restricts Caspase-1 Processing in Hepatocytes and Promotes Plasmodium Infection. *Journal of immunology (Baltimore, Md. : 1950)*, 212(4), 596.

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

Ferioti C, et al. (2022) *Klebsiella pneumoniae* hijacks the Toll-IL-1R protein SARM1 in a type I IFN-dependent manner to antagonize host immunity. *Cell reports*, 40(6), 111167.

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.

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).