

Resource Summary Report

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

pcDNA3-N-Flag-ASC1

RRID:Addgene_75134

Type: Plasmid

Proper Citation

RRID:Addgene_75134

Plasmid Information

URL: <http://www.addgene.org/75134>

Proper Citation: RRID:Addgene_75134

Insert Name: PYD and CARD domain containing

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 F23S in ASC1 was found during Addgene's quality control. The depositor noted that this mutation does NOT affect plasmid function.

Plasmid Name: pcDNA3-N-Flag-ASC1

Relevant Mutation: F23S (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-ASC1.

No alerts have been found for pcDNA3-N-Flag-ASC1.

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](#) .

Zhou T, et al. (2025) Fungal Als proteins hijack host death effector domains to promote inflammasome signaling. *Nature communications*, 16(1), 1562.

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.

Deng Y, et al. (2024) A cytomegalovirus inflammasome inhibitor reduces proinflammatory cytokine release and pyroptosis. *Nature communications*, 15(1), 786.

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

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).

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.

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).