

Resource Summary Report

Generated by [RRID](#) on Aug 26, 2026

pcDNA3-N-HA-NEK7

RRID:Addgene_75142

Type: Plasmid

Proper Citation

RRID:Addgene_75142

Plasmid Information

URL: <http://www.addgene.org/75142>

Proper Citation: RRID:Addgene_75142

Insert Name: NIMA (never in mitosis gene a)-related expressed kinase 7

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-HA-NEK7

Record Creation Time: 20220422T222457+0000

Record Last Update: 20260826T042556+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-N-HA-NEK7.

No alerts have been found for pcDNA3-N-HA-NEK7.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 10 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.

Modica G, et al. (2025) Phosphorylation on serine 72 modulates Rab7A palmitoylation and retromer recruitment. *Journal of cell science*, 138(1).

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

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.

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.

Hughes MM, et al. (2019) Glutathione Transferase Omega-1 Regulates NLRP3 Inflammasome Activation through NEK7 Deglutathionylation. *Cell reports*, 29(1), 151.

Hafner-Bratkovi?? I, et al. (2018) NLRP3 lacking the leucine-rich repeat domain can be fully activated via the canonical inflammasome pathway. *Nature communications*, 9(1), 5182.

Shi H, et al. (2016) Reconstruction of the Mouse Inflammasome System in HEK293T Cells. *Bio-protocol*, 6(21).