

Resource Summary Report

Generated by [SPARC SAWG](#) on Jul 29, 2026

pcDNA3.1 mycBioID

RRID:Addgene_35700

Type: Plasmid

Proper Citation

RRID:Addgene_35700

Plasmid Information

URL: <http://www.addgene.org/35700>

Proper Citation: RRID:Addgene_35700

Insert Name: BirA

Organism: E. coli

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:22412018](#)

Vector Backbone Description: Backbone Marker:InVitrogen; Backbone Size:5400; Vector Backbone:pcDNA3.1(-); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3.1 mycBioID

Relevant Mutation: R118G (highly promiscuous form)

Record Creation Time: 20220422T222152+0000

Record Last Update: 20260725T074611+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3.1 mycBioID.

No alerts have been found for pcDNA3.1 mycBioID.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 92 mentions in open access literature.

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

Hossain MJ, et al. (2025) Bacterial pathogens hijack host cell peroxisomes for replication vacuole expansion and integrity. *Science advances*, 11(18), eadr8005.

Eibach Y, et al. (2025) The deubiquitinase USP5 prevents accumulation of protein aggregates in cardiomyocytes. *Science advances*, 11(4), eado3852.

Alonso-Marañón J, et al. (2025) NEMO is essential for directing the kinases IKK γ and ATM to the sites of DNA damage. *Science signaling*, 18(877), eadr0128.

Esparza-Moltó PB, et al. (2025) ROS-dependent localization of glycolytic enzymes to mitochondria. *Redox biology*, 86, 103812.

López-Alcalá J, et al. (2024) Localization, traffic and function of Rab34 in adipocyte lipid and endocrine functions. *Journal of biomedical science*, 31(1), 2.

Fülle JB, et al. (2024) Proximity Mapping of Desmosomes Reveals a Striking Shift in Their Molecular Neighborhood Associated With Maturation. *Molecular & cellular proteomics : MCP*, 23(3), 100735.

Chen X, et al. (2024) Styxl2 regulates de novo sarcomere assembly by binding to non-muscle myosin IIs and promoting their degradation. *eLife*, 12.

Prosdocimi E, et al. (2024) BioID-based intact cell interactome of the Kv1.3 potassium channel identifies a Kv1.3-STAT3-p53 cellular signaling pathway. *Science advances*, 10(36), eadn9361.

Bedir M, et al. (2024) A novel role for the peptidyl-prolyl cis-trans isomerase Cyclophilin A in DNA-repair following replication fork stalling via the MRE11-RAD50-NBS1 complex. *EMBO reports*, 25(8), 3432.

Puccini J, et al. (2023) Cytoskeletal association of ATP citrate lyase controls the mechanodynamics of macropinocytosis. *Proceedings of the National Academy of Sciences of the United States of America*, 120(8), e2213272120.

Hardt R, et al. (2023) Proteomic investigation of neural stem cell to oligodendrocyte precursor cell differentiation reveals phosphorylation-dependent Dclk1 processing. *Cellular and molecular life sciences : CMLS*, 80(9), 260.

Newman D, et al. (2023) 3D matrix adhesion feedback controls nuclear force coupling to drive invasive cell migration. *Cell reports*, 42(12), 113554.

Kitagawa T, et al. (2022) AT-hook DNA-binding motif-containing protein one knockdown downregulates EWS-FLI1 transcriptional activity in Ewing's sarcoma cells. *PloS one*, 17(10), e0269077.

Nguyen-Tien D, et al. (2022) Identification of the interacting partners of a lysosomal membrane protein in living cells by BioID technique. STAR protocols, 3(2), 101263.

Bachmann M, et al. (2022) Pharmacological targeting of the mitochondrial calcium-dependent potassium channel KCa3.1 triggers cell death and reduces tumor growth and metastasis in vivo. Cell death & disease, 13(12), 1055.

Kawai T, et al. (2022) Insight into the function of a unique voltage-sensor protein (TMEM266) and its short form in mouse cerebellum. The Biochemical journal, 479(11), 1127.

Lu F, et al. (2022) CMYA5 establishes cardiac dyad architecture and positioning. Nature communications, 13(1), 2185.

Geng B, et al. (2022) UCHL1 protects against ischemic heart injury via activating HIF-1 α signal pathway. Redox biology, 52, 102295.

Liu F, et al. (2022) Proximity proteomics of C9orf72 dipeptide repeat proteins identifies molecular chaperones as modifiers of poly-GA aggregation. Acta neuropathologica communications, 10(1), 22.

Song DA, et al. (2022) A New Monoclonal Antibody Enables BAR Analysis of Subcellular Importin β 1 Interactomes. Molecular & cellular proteomics : MCP, 21(11), 100418.