

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.

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.

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

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.

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.

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

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.

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.