

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

pET21a-BirA

RRID:Addgene_20857

Type: Plasmid

Proper Citation

RRID:Addgene_20857

Plasmid Information

URL: <http://www.addgene.org/20857>

Proper Citation: RRID:Addgene_20857

Insert Name: BirA

Organism: E. coli

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:15897449](#)

Vector Backbone Description: Backbone Size:5443; Vector Backbone:pET21a; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: Please email tinglab@gmail.com with your intended use and/or targets for this plasmid.

Plasmid Name: pET21a-BirA

Record Creation Time: 20220422T222053+0000

Record Last Update: 20260808T081404+0000

Ratings and Alerts

No rating or validation information has been found for pET21a-BirA.

No alerts have been found for pET21a-BirA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 31 mentions in open access literature.

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

Xue L, et al. (2026) Structural basis of the interaction between Norrin-Tspan12. *Structure* (London, England : 1993), 34(7), 1050.

Wright NJ, et al. (2026) Cryo-EM Structures of Brain-Derived G Protein-Coupled Receptors: The First Direct Visualization from Mammalian Brain Tissue. *bioRxiv* : the preprint server for biology.

Ge X, et al. (2026) PI3K Regulates Wild-type RAS Signaling to Confer Resistance to KRAS Inhibition. *Cancer research*, 86(15), 3819.

Nardone C, et al. (2025) Structural basis for the midnolin-proteasome pathway and its role in suppressing myeloma. *Molecular cell*, 85(13), 2597.

Muratcioglu S, et al. (2025) Autophosphorylation of oncoprotein TEL-ABL in myeloid and lymphoid cells confers resistance to the allosteric ABL inhibitor asciminib. *Science signaling*, 18(895), eadt5931.

Zambo B, et al. (2024) Uncovering the BIN1-SH3 interactome underpinning centronuclear myopathy. *eLife*, 13.

Mayse LA, et al. (2023) Evaluation of Nanopore Sensor Design Using Electrical and Optical Analyses. *ACS nano*, 17(11), 10857.

Shell DJ, et al. (2023) Discovery of a 53BP1 Small Molecule Antagonist Using a Focused DNA-Encoded Library Screen. *Journal of medicinal chemistry*, 66(20), 14133.

Kordus SL, et al. (2023) Nanobodies against *C. difficile* TcdA and TcdB reveal unexpected neutralizing epitopes and provide a toolkit for toxin quantitation in vivo. *PLoS pathogens*, 19(10), e1011496.

Lu J, et al. (2023) CaMKII autophosphorylation can occur between holoenzymes without subunit exchange. *eLife*, 12.

Fu G, et al. (2023) Integrated regulation of tubulin tyrosination and microtubule stability by human γ -tubulin isotypes. *Cell reports*, 42(6), 112653.

Zambo B, et al. (2022) Native holdup (nHU) to measure binding affinities from cell extracts. *Science advances*, 8(51), eade3828.

Gogl G, et al. (2022) Quantitative fragmentomics allow affinity mapping of interactomes. *Nature communications*, 13(1), 5472.

Kremlitzka M, et al. (2022) Alternative translation and retrotranslocation of cytosolic C3 that detects cytoinvasive bacteria. *Cellular and molecular life sciences : CMLS*, 79(6), 291.

Luo Y, et al. (2021) Discovery of cellular substrates of human RNA-decapping enzyme DCP2 using a stapled bicyclic peptide inhibitor. *Cell chemical biology*, 28(4), 463.

Bhattacharyya M, et al. (2020) Flexible linkers in CaMKII control the balance between activating and inhibitory autophosphorylation. *eLife*, 9.

Puhl AC, et al. (2020) Discovery and Characterization of Peptide Inhibitors for Calcium and Integrin Binding Protein 1. *ACS chemical biology*, 15(6), 1505.

Karandur D, et al. (2020) Breakage of the oligomeric CaMKII hub by the regulatory segment of the kinase. *eLife*, 9.

Zhu J, et al. (2020) Preparation of a Bacteriophage T4-based Prokaryotic-eukaryotic Hybrid Viral Vector for Delivery of Large Cargos of Genes and Proteins into Human Cells. *Bio-protocol*, 10(7), e3573.

Bang Y, et al. (2020) An efficient cell type specific conjugating method for incorporating various nanostructures to genetically encoded AviTag expressed optogenetic opsins. *Biochemical and biophysical research communications*, 530(3), 581.