

Resource Summary Report

Generated by [RRID](#) on Aug 17, 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: 20260815T081157+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 [RRID](#) .

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.

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.

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.

Lu?i? I, 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.

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.

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