

# Resource Summary Report

Generated by [NIF](#) on Aug 1, 2026

## pET21a-BirA

RRID:Addgene\_20857

Type: Plasmid

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### Proper Citation

RRID:Addgene\_20857

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### 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](mailto: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:** 20260801T081000+0000

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### Ratings and Alerts

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

No alerts have been found for pET21a-BirA.

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### Data and Source Information

**Source:** [Addgene](#)

## Usage and Citation Metrics

We found 28 mentions in open access literature.

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

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?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  $\beta$ -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.

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.

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

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.

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.

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.

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

Zhu J, et al. (2019) A prokaryotic-eukaryotic hybrid viral vector for delivery of large cargos of genes and proteins into human cells. Science advances, 5(8), eaax0064.

Long HK, et al. (2018) Biochemical Identification of Nonmethylated DNA by BioCAP-Seq. Methods in molecular biology (Clifton, N.J.), 1766, 15.

Sung K, et al. (2018) Swedish Nerve Growth Factor Mutation (NGFR100W) Defines a Role for TrkA and p75NTR in Nociception. The Journal of neuroscience : the official journal of the Society for Neuroscience, 38(14), 3394.