Resource Summary Report

Generated by RRID on Aug 28, 2026

p2CT-His-MBP-Lbu_C2c2_WT

RRID:Addgene_83482
Type: Plasmid

Proper Citation

RRID:Addgene_83482

Plasmid Information

URL: http://www.addgene.org/83482

Proper Citation: RRID:Addgene_83482

Insert Name: Lbu_C2c2_WT

Organism: Leptotrichia buccalis

Bacterial Resistance: Ampicillin

Defining Citation: PMID:27669025

Vector Backbone Description: Backbone Size:5960; Vector Backbone:p2CT; Vector Types:Bacterial Expression, CRISPR; Bacterial Resistance:Ampicillin

Comments: Codon optimized for E. Coli expression. His-MBP fusion tag can be removed with TEV protease.

Plasmid Name: p2CT-His-MBP-Lbu_C2c2_WT

Record Creation Time: 20220422T222540+0000

Record Last Update: 20260815T082106+0000

Ratings and Alerts

No rating or validation information has been found for p2CT-His-MBP-Lbu_C2c2_WT.

No alerts have been found for p2CT-His-MBP-Lbu_C2c2_WT.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 15 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Bot JF, et al. (2026) Temporal dynamics of collateral RNA cleavage by LbuCas13a in human cells. Communications biology, 9(1), 233.

Huang H, et al. (2025) A catalyst-free bioorthogonal reaction for malononitrile addition to azodicarboxylates. Nature communications, 16(1), 9771.

Sinha S, et al. (2024) Unveiling the RNA-mediated allosteric activation discloses functional hotspots in CRISPR-Cas13a. Nucleic acids research, 52(2), 906.

Molina Vargas AM, et al. (2024) New design strategies for ultra-specific CRISPR-Cas13a-based RNA detection with single-nucleotide mismatch sensitivity. Nucleic acids research, 52(2), 921.

Zhao H, et al. (2024) The CRISPR-Cas13a Gemini System for noncontiguous target RNA activation. Nature communications, 15(1), 2901.

Sinha S, et al. (2023) RNA-mediated Allosteric Activation in CRISPR-Cas13a. bioRxiv : the preprint server for biology.

Rotolo L, et al. (2023) Species-agnostic polymeric formulations for inhalable messenger RNA delivery to the lung. Nature materials, 22(3), 369.

Johnston M, et al. (2022) Multiplexed biosensor for point-of-care COVID-19 monitoring: CRISPR-powered unamplified RNA diagnostics and protein-based therapeutic drug management. Materials today (Kidlington, England), 61, 129.

Fozouni P, et al. (2021) Amplification-free detection of SARS-CoV-2 with CRISPR-Cas13a and mobile phone microscopy. Cell, 184(2), 323.

Liu TY, et al. (2021) Accelerated RNA detection using tandem CRISPR nucleases. Nature chemical biology, 17(9), 982.

Blanchard EL, et al. (2021) Treatment of influenza and SARS-CoV-2 infections via mRNA-encoded Cas13a in rodents. Nature biotechnology, 39(6), 717.

Wang SR, et al. (2020) Conditional control of RNA-guided nucleic acid cleavage and gene editing. Nature communications, 11(1), 91.

Yang S, et al. (2020) A m6 A Sensing Method by Its Impact on the Stability of RNA Double Helix. Chemistry & biodiversity, 17(7), e2000050.

Katzmeier F, et al. (2019) A low-cost fluorescence reader for in vitro transcription and nucleic acid detection with Cas13a. PloS one, 14(12), e0220091.

Tambe A, et al. (2018) RNA Binding and HEPN-Nuclease Activation Are Decoupled in CRISPR-Cas13a. Cell reports, 24(4), 1025.