

Resource Summary Report

Generated by [kravitz2](#) on Jul 29, 2026

LbCpf1-2NLS

RRID:Addgene_102566

Type: Plasmid

Proper Citation

RRID:Addgene_102566

Plasmid Information

URL: <http://www.addgene.org/102566>

Proper Citation: RRID:Addgene_102566

Insert Name: LbCpf1

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29222508](https://pubmed.ncbi.nlm.nih.gov/29222508/)

Vector Backbone Description: Vector Backbone:pET; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Comments: Please visit <https://doi.org/10.1101/156125> for bioRxiv preprint.

Plasmid Name: LbCpf1-2NLS

Record Creation Time: 20220422T221456+0000

Record Last Update: 20260725T073349+0000

Ratings and Alerts

No rating or validation information has been found for LbCpf1-2NLS.

No alerts have been found for LbCpf1-2NLS.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 11 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Xie S, et al. (2022) Kinetics Accelerated CRISPR-Cas12a Enabling Live-Cell Monitoring of Mn²⁺ Homeostasis. *Analytical chemistry*, 94(28), 10159.

Malc?? K, et al. (2022) Rational Design of CRISPR/Cas12a-RPA Based One-Pot COVID-19 Detection with Design of Experiments. *ACS synthetic biology*, 11(4), 1555.

Ding R, et al. (2022) High-efficiency of genetic modification using CRISPR/Cpf1 system for engineered CAR-T cell therapy. *Methods in cell biology*, 167, 1.

Nguyen LT, et al. (2022) CRISPR-ENHANCE: An enhanced nucleic acid detection platform using Cas12a. *Methods (San Diego, Calif.)*, 203, 116.

Nguyen LT, et al. (2022) Clinical validation of engineered CRISPR/Cas12a for rapid SARS-CoV-2 detection. *Communications medicine*, 2, 7.

Kim HS, et al. (2022) Biochemical characterization of the two novel mgCas12a proteins from the human gut metagenome. *Scientific reports*, 12(1), 20857.

Bai L, et al. (2022) Rapid, Visual, and Sequence-Specific Detection of Salmonella in Egg Liquid with vis-NEAA, a CRISPR/Cas12 Empowered New Strategy. *Journal of agricultural and food chemistry*, 70(7), 2401.

Shi K, et al. (2021) A CRISPR-Cas autocatalysis-driven feedback amplification network for supersensitive DNA diagnostics. *Science advances*, 7(5).

Chen X, et al. (2021) Label-Free Colorimetric Method for Detection of *Vibrio parahaemolyticus* by Trimming the G-Quadruplex DNAzyme with CRISPR/Cas12a. *Analytical chemistry*, 93(42), 14300.

Nguyen LT, et al. (2020) Enhancement of trans-cleavage activity of Cas12a with engineered crRNA enables amplified nucleic acid detection. *Nature communications*, 11(1), 4906.

Fernandez JP, et al. (2018) Optimized CRISPR-Cpf1 system for genome editing in zebrafish. *Methods (San Diego, Calif.)*, 150, 11.