

Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 4, 2026

pC0046-EF1a-PspCas13b-NES-HIV

RRID:Addgene_103862

Type: Plasmid

Proper Citation

RRID:Addgene_103862

Plasmid Information

URL: <http://www.addgene.org/103862>

Proper Citation: RRID:Addgene_103862

Insert Name: PspCas13b

Organism: Prevotella sp. P5-125

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29070703](#)

Vector Backbone Description: Backbone Size:9000; Vector Backbone:EF1a-lenti;
Vector Types:Mammalian Expression, Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Comments: Benchling link: <https://benchling.com/s/seq-g62SIhluOIRdD8aArJaC>

Plasmid Name: pC0046-EF1a-PspCas13b-NES-HIV

Record Creation Time: 20220422T221503+0000

Record Last Update: 20260902T041012+0000

Ratings and Alerts

No rating or validation information has been found for pC0046-EF1a-PspCas13b-NES-HIV.

No alerts have been found for pC0046-EF1a-PspCas13b-NES-HIV.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 24 mentions in open access literature.

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

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

Dickmader RJ, et al. (2025) RNA-targeted proteomics identifies YBX1 as critical for efficient HCMV mRNA translation. *Proceedings of the National Academy of Sciences of the United States of America*, 122(10), e2421155122.

Lin XL, et al. (2025) CRISPR/Cas-mediated mRNA knockdown in the embryos of *Xenopus tropicalis*. *Cell & bioscience*, 15(1), 52.

Li J, et al. (2024) Cas13b-mediated RNA targeted therapy alleviates genetic dilated cardiomyopathy in mice. *Cell & bioscience*, 14(1), 4.

Yu J, et al. (2024) Programmable RNA base editing with photoactivatable CRISPR-Cas13. *Nature communications*, 15(1), 673.

Sasaki S, et al. (2024) Suppression of Borna Disease Virus Replication during Its Persistent Infection Using the CRISPR/Cas13b System. *International journal of molecular sciences*, 25(6).

Zhao F, et al. (2023) A strategy for Cas13 miniaturization based on the structure and AlphaFold. *Nature communications*, 14(1), 5545.

Sun W, et al. (2023) Genetically encoded chemical crosslinking of RNA in vivo. *Nature chemistry*, 15(1), 21.

Yu D, et al. (2023) Pseudoknot-targeting Cas13b combats SARS-CoV-2 infection by suppressing viral replication. *Molecular therapy : the journal of the American Society of Gene Therapy*, 31(6), 1675.

Lewis MW, et al. (2022) Enhancer RNA Transcription Is Essential for a Novel CSF1 Enhancer in Triple-Negative Breast Cancer. *Cancers*, 14(7).

Chen P, et al. (2022) Targeted inhibition of Zika virus infection in human cells by CRISPR-Cas13b. *Virus research*, 312, 198707.

Shih HW, et al. (2022) A cell-cycle-dependent GARP-like transcriptional repressor regulates the initiation of differentiation in *Giardia lamblia*. *Proceedings of the National Academy of Sciences of the United States of America*, 119(22), e2204402119.

DiAndreth B, et al. (2022) PERSIST platform provides programmable RNA regulation using CRISPR endoRNases. *Nature communications*, 13(1), 2582.

Burris BJD, et al. (2022) Optimization of specific RNA knockdown in mammalian cells with CRISPR-Cas13. *Methods (San Diego, Calif.)*, 206, 58.

Singsuksawat E, et al. (2021) Potent programmable antiviral against dengue virus in primary human cells by Cas13b RNP with short spacer and delivery by VLP. *Molecular therapy. Methods & clinical development*, 21, 729.

Lin X, et al. (2021) In vivo discovery of RNA proximal proteins via proximity-dependent biotinylation. *RNA biology*, 18(12), 2203.

Fareh M, et al. (2021) Reprogrammed CRISPR-Cas13b suppresses SARS-CoV-2 replication and circumvents its mutational escape through mismatch tolerance. *Nature communications*, 12(1), 4270.

Wu QW, et al. (2021) The Bacterial Enzyme RfxCas13d Is Less Neurotoxic Than PspCas13b and Could Be a Promising RNA Editing and Interference Tool in the Nervous System. *Brain sciences*, 11(8).

Cui J, et al. (2020) Abrogation of PRRSV infectivity by CRISPR-Cas13b-mediated viral RNA cleavage in mammalian cells. *Scientific reports*, 10(1), 9617.

Wessels HH, et al. (2020) Massively parallel Cas13 screens reveal principles for guide RNA design. *Nature biotechnology*, 38(6), 722.