

Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 3, 2026

pC0049-EF1a-dPSPCas13b-NES-HIV, H133A/H1058A

RRID:Addgene_103865

Type: Plasmid

Proper Citation

RRID:Addgene_103865

Plasmid Information

URL: <http://www.addgene.org/103865>

Proper Citation: RRID:Addgene_103865

Insert Name: PspCas13b

Organism: Prevotella sp. P5-125

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29070703](#)

Vector Backbone Description: Backbone Size:9360; Vector Backbone:Unknown; Vector Types:Mammalian Expression, Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Comments: Benchling link: <https://benchling.com/s/seq-gF8829PyBC9oBkazybLL>

Plasmid Name: pC0049-EF1a-dPSPCas13b-NES-HIV, H133A/H1058A

Relevant Mutation: Contains the H133A and H1058A mutations which inactivate the HEPN RNase domains of Cas13b.

Record Creation Time: 20220422T221504+0000

Record Last Update: 20260902T041012+0000

Ratings and Alerts

No rating or validation information has been found for pC0049-EF1a-dPSPCas13b-NES-HIV, H133A/H1058A.

No alerts have been found for pC0049-EF1a-dPSPCas13b-NES-HIV, H133A/H1058A.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

Han M, et al. (2025) Programmable control of spatial transcriptome in live cells and neurons. *Nature*, 643(8070), 241.

Dickmander 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.

Apostolopoulos A, et al. (2024) dCas13-mediated translational repression for accurate gene silencing in mammalian cells. *Nature communications*, 15(1), 2205.

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

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.

Polanco JC, et al. (2021) Exosomes induce endolysosomal permeabilization as a gateway by which exosomal tau seeds escape into the cytosol. *Acta neuropathologica*, 141(2), 235.