

Resource Summary Report

Generated by [RRID](#) on Aug 25, 2026

pHAGE EF1? dCas9-VP64

RRID:Addgene_50918

Type: Plasmid

Proper Citation

RRID:Addgene_50918

Plasmid Information

URL: <http://www.addgene.org/50918>

Proper Citation: RRID:Addgene_50918

Insert Name: dCas9

Organism: S. pyogenes

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:24346702](#)

Vector Backbone Description: Vector Backbone:pHAGE; Vector Types:Mammalian Expression, Lentiviral, CRISPR; Bacterial Resistance:Ampicillin

Comments: Please note that there are several mismatches (minor deletions and insertions) between depositor's reference sequence and Addgene's quality control sequence. The mismatches are in cloning junctions/non-coding regions and should not affect plasmid function.

Plasmid Name: pHAGE EF1? dCas9-VP64

Relevant Mutation: D10A, H840A

Record Creation Time: 20220422T222300+0000

Record Last Update: 20260815T081612+0000

Ratings and Alerts

No rating or validation information has been found for pHAGE EF1? dCas9-VP64.

No alerts have been found for pHAGE EF1? dCas9-VP64.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 23 mentions in open access literature.

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

Refael T, et al. (2024) An i-motif-regulated enhancer, eRNA and adjacent lncRNA affect Lhb expression through distinct mechanisms in a sex-specific context. Cellular and molecular life sciences : CMLS, 81(1), 361.

Marks BA, et al. (2023) GDNF-RET signaling and EGR1 form a positive feedback loop that promotes tamoxifen resistance via cyclin D1. BMC cancer, 23(1), 138.

Nair VP, et al. (2022) A protocol for CRISPR-mediated activation and repression of human endogenous retroviruses in human pluripotent stem cells. STAR protocols, 3(2), 101281.

Chang L, et al. (2022) Nuclear peripheral chromatin-lamin B1 interaction is required for global integrity of chromatin architecture and dynamics in human cells. Protein & cell, 13(4), 258.

Oo JA, et al. (2022) Long non-coding RNA PCAT19 safeguards DNA in quiescent endothelial cells by preventing uncontrolled phosphorylation of RPA2. Cell reports, 41(7), 111670.

Sarno F, et al. (2022) Functional Validation of the Putative Oncogenic Activity of PLAU. Biomedicines, 11(1).

Leisegang MS, et al. (2022) HIF1 γ -AS1 is a DNA:DNA:RNA triplex-forming lncRNA interacting with the HUSH complex. Nature communications, 13(1), 6563.

Yue J, et al. (2021) Suppression of the NTS-CPS1 regulatory axis by AFF1 in lung adenocarcinoma cells. The Journal of biological chemistry, 296, 100319.

Padmanabhan Nair V, et al. (2021) Activation of HERV-K(HML-2) disrupts cortical patterning and neuronal differentiation by increasing NTRK3. Cell stem cell, 28(9), 1566.

Dibitetto D, et al. (2020) Intrinsic ATR signaling shapes DNA end resection and suppresses toxic DNA-PKcs signaling. NAR cancer, 2(2), zcaa006.

Rankin CR, et al. (2020) The IBD-associated long noncoding RNA IFNG-AS1 regulates the balance between inflammatory and anti-inflammatory cytokine production after T-cell stimulation. American journal of physiology. Gastrointestinal and liver physiology, 318(1), G34.

Stojic L, et al. (2020) A high-content RNAi screen reveals multiple roles for long noncoding RNAs in cell division. Nature communications, 11(1), 1851.

Hsu MN, et al. (2019) CRISPR-based Activation of Endogenous Neurotrophic Genes in Adipose Stem Cell Sheets to Stimulate Peripheral Nerve Regeneration. *Theranostics*, 9(21), 6099.

Rankin CR, et al. (2019) Overexpressing Long Noncoding RNAs Using Gene-activating CRISPR. *Journal of visualized experiments : JoVE*(145).

Goubert D, et al. (2018) Establishment of Cell Lines Stably Expressing dCas9-Fusions to Address Kinetics of Epigenetic Editing. *Methods in molecular biology (Clifton, N.J.)*, 1767, 395.

Perry RB, et al. (2018) Regulation of Neuroregeneration by Long Noncoding RNAs. *Molecular cell*, 72(3), 553.

Bischoff FC, et al. (2017) Identification and Functional Characterization of Hypoxia-Induced Endoplasmic Reticulum Stress Regulating lncRNA (HypERlnc) in Pericytes. *Circulation research*, 121(4), 368.

Song J, et al. (2017) Targeted epigenetic editing of SPDEF reduces mucus production in lung epithelial cells. *American journal of physiology. Lung cellular and molecular physiology*, 312(3), L334.

Good CR, et al. (2017) A novel isoform of TET1 that lacks a CXXC domain is overexpressed in cancer. *Nucleic acids research*, 45(14), 8269.

Himeda CL, et al. (2016) CRISPR/dCas9-mediated Transcriptional Inhibition Ameliorates the Epigenetic Dysregulation at D4Z4 and Represses DUX4-fl in FSH Muscular Dystrophy. *Molecular therapy : the journal of the American Society of Gene Therapy*, 24(3), 527.