

Resource Summary Report

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

pHAGE TRE dCas9-VP64

RRID:Addgene_50916

Type: Plasmid

Proper Citation

RRID:Addgene_50916

Plasmid Information

URL: <http://www.addgene.org/50916>

Proper Citation: RRID:Addgene_50916

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 TRE dCas9-VP64

Relevant Mutation: D10A, H840A nuclease-deficient

Record Creation Time: 20220422T222300+0000

Record Last Update: 20260815T081610+0000

Ratings and Alerts

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

No alerts have been found for pHAGE TRE dCas9-VP64.

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 [RRID](#) .

Vandana JJ, et al. (2025) ChemPerturb-seq screen identifies a small molecule cocktail enhancing human beta cell survival after subcutaneous transplantation. *Cell stem cell*, 32(8), 1299.

Ren S, et al. (2024) PAPAS promotes differentiation of mammary epithelial cells and suppresses breast carcinogenesis. *Cell reports*, 43(1), 113644.

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.

Thaler R, et al. (2022) Vitamin C epigenetically controls osteogenesis and bone mineralization. *Nature communications*, 13(1), 5883.

Saratov V, et al. (2022) CRISPR activation screen identifies TGF β -associated PEG10 as a crucial tumor suppressor in Ewing sarcoma. *Scientific reports*, 12(1), 10671.

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.

Chen L, et al. (2020) Generation of Inducible CRISPRi and CRISPRa Human Stromal/Stem Cell Lines for Controlled Target Gene Transcription during Lineage Differentiation. *Stem cells international*, 2020, 8857344.

de Boer HR, et al. (2019) Quantitative proteomics analysis identifies MUC1 as an effect sensor of EGFR inhibition. *Oncogene*, 38(9), 1477.

Sun S, et al. (2018) Targeting ectodysplasin promotor by CRISPR/dCas9-effector effectively induces the reprogramming of human bone marrow-derived mesenchymal stem cells into sweat gland-like cells. *Stem cell research & therapy*, 9(1), 8.

Pham H, et al. (2016) Transcriptional Regulation with CRISPR/Cas9 Effectors in Mammalian Cells. *Methods in molecular biology* (Clifton, N.J.), 1358, 43.

Zhang Y, et al. (2015) CRISPR/gRNA-directed synergistic activation mediator (SAM) induces specific, persistent and robust reactivation of the HIV-1 latent reservoirs. *Scientific reports*, 5, 16277.