

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

SP-dCas9-VPR

RRID:Addgene_63798

Type: Plasmid

Proper Citation

RRID:Addgene_63798

Plasmid Information

URL: <http://www.addgene.org/63798>

Proper Citation: RRID:Addgene_63798

Insert Name: SP-dCas9-VPR

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25730490](#)

Vector Backbone Description: Vector Backbone:pcDNA3.3 TOPO; Vector Types:Mammalian Expression, CRISPR, Synthetic Biology; Bacterial Resistance:Ampicillin

Comments: Cas9 insert contains K604R, D839A and N863A mutations relative to reference sequence WP_010922251.1. Depositor states that these mutations should not affect function. This plasmid contains a human codon optimized form of cas9.

Plasmid Name: SP-dCas9-VPR

Record Creation Time: 20220422T222405+0000

Record Last Update: 20260815T081806+0000

Ratings and Alerts

No rating or validation information has been found for SP-dCas9-VPR.

No alerts have been found for SP-dCas9-VPR.

Data and Source Information

Usage and Citation Metrics

We found 125 mentions in open access literature.

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

Boulos J, et al. (2026) Recruitment of transcriptional effectors by Cas9 creates cis-regulatory elements and demonstrates distance-dependent transcriptional regulation. *iScience*, 29(1), 114040.

van de Grift YBC, et al. (2026) GRHL and PGR control WNT4 expression via 3D looping of conserved and species-specific enhancers. *Cell reports*, 45(7), 117575.

Kang T, et al. (2026) Cellular-state control using ribozyme-scaffolded miRNA-sensing and CRISPR-mediated actuation. *Cell reports methods*, 6(5), 101379.

Pelea O, et al. (2025) Specific modulation of CRISPR transcriptional activators through RNA-sensing guide RNAs in mammalian cells and zebrafish embryos. *eLife*, 12.

Li S, et al. (2025) Transdermal microneedle-assisted ultrasound-enhanced CRISPRa system to enable sono-gene therapy for obesity. *Nature communications*, 16(1), 1499.

Wang Y, et al. (2025) Programmable solid-state condensates for spatiotemporal control of mammalian gene expression. *Nature chemical biology*, 21(9), 1457.

Cervera-Juanes RP, et al. (2025) Pre-existing DNA methylation signatures in the prefrontal cortex of alcohol-naïve nonhuman primates define neural vulnerability for future risky ethanol consumption. *Neurobiology of disease*, 209, 106886.

Zhang L, et al. (2025) A trigger-inducible split-Csy4 architecture for programmable RNA modulation. *Nucleic acids research*, 53(2).

Kincaid S, et al. (2025) Increasing H2B Monoubiquitination Improves the Transcriptome and Memory in the Aged Hippocampus. *eNeuro*, 12(4).

Pulgarin DV, et al. (2025) Light-induced expression of gRNA allows for optogenetic gene editing of T lymphocytes in vivo. *Nucleic acids research*, 53(6).

Schuster B, et al. (2025) SWITCHER, a CRISPR-inducible floxed wild-type Cre regulating CRISPR activity. *Communications biology*, 8(1), 982.

Klinnert S, et al. (2024) Targeted shock-and-kill HIV-1 gene therapy approach combining CRISPR activation, suicide gene tBid and retargeted adenovirus delivery. *Gene therapy*, 31(3-4), 74.

Li J, et al. (2024) Mechanosensitive super-enhancers regulate genes linked to atherosclerosis in endothelial cells. *The Journal of cell biology*, 223(3).

Fisher MA, et al. (2024) Gesicles packaging dCas9-VPR ribonucleoprotein complexes can combine with vorinostat and promote HIV proviral transcription. *Molecular therapy. Methods & clinical development*, 32(1), 101203.

Company C, et al. (2024) Logical design of synthetic cis-regulatory DNA for genetic tracing of cell identities and state changes. *Nature communications*, 15(1), 897.

Li X, et al. (2024) MCRS1 sensitizes T cell-dependent immunotherapy by augmenting MHC-I expression in solid tumors. *The Journal of experimental medicine*, 221(12).

Chen GT, et al. (2024) Enhancer-targeted CRISPR-Activation Rescues Haploinsufficient Autism Susceptibility Genes. *bioRxiv : the preprint server for biology*.

Alkhayer R, et al. (2024) Protocol to target a promoter region in human embryonic kidney cells using the CRISPR-dCas9 system for single-locus proteomics. *STAR protocols*, 5(2), 103045.

Rolandelli A, et al. (2024) Tick hemocytes have a pleiotropic role in microbial infection and arthropod fitness. *Nature communications*, 15(1), 2117.

Pizzolato G, et al. (2024) The tumor suppressor p53 is a negative regulator of the carcinoma-associated transcription factor FOXQ1. *The Journal of biological chemistry*, 300(4), 107126.