

Resource Summary Report

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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, Other; 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

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

Source: [Addgene](#)

Usage and Citation Metrics

We found 17 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

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.

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.

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

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

Downes N, et al. (2023) Hypoxic regulation of hypoxia inducible factor 1 alpha via antisense transcription. *The Journal of biological chemistry*, 299(11), 105291.

Bach SV, et al. (2023) Distinct roles of Bdnf I and Bdnf IV transcript variant expression in hippocampal neurons. *bioRxiv : the preprint server for biology*.

Klockner I, et al. (2022) Control of CRK-RAC1 activity by the miR-1/206/133 miRNA family is essential for neuromuscular junction function. *Nature communications*, 13(1), 3180.

Dion W, et al. (2022) Four-dimensional nuclear speckle phase separation dynamics regulate proteostasis. *Science advances*, 8(1), eabl4150.

Freed-Pastor WA, et al. (2021) The CD155/TIGIT axis promotes and maintains immune evasion in neoantigen-expressing pancreatic cancer. *Cancer cell*, 39(10), 1342.

Besusso D, et al. (2020) A CRISPR-strategy for the generation of a detectable fluorescent hESC reporter line (WAe009-A-37) for the subpallial determinant GSX2. *Stem cell research*, 49, 102016.

Donahue PS, et al. (2020) The COMET toolkit for composing customizable genetic programs in mammalian cells. *Nature communications*, 11(1), 779.

Xi H, et al. (2020) A Human Skeletal Muscle Atlas Identifies the Trajectories of Stem and Progenitor Cells across Development and from Human Pluripotent Stem Cells. *Cell stem cell*, 27(1), 158.

Xi H, et al. (2020) Generation of PAX7 Reporter Cells to Investigate Skeletal Myogenesis

from Human Pluripotent Stem Cells. STAR protocols, 1(3), 100158.

Savell KE, et al. (2019) A Neuron-Optimized CRISPR/dCas9 Activation System for Robust and Specific Gene Regulation. eNeuro, 6(1).

Liu W, et al. (2019) Targeted regulation of fibroblast state by CRISPR-mediated CEBPA expression. Respiratory research, 20(1), 281.

Mangeot PE, et al. (2019) Genome editing in primary cells and in vivo using viral-derived Nanoblades loaded with Cas9-sgRNA ribonucleoproteins. Nature communications, 10(1), 45.

Li S, et al. (2019) GRP94 promotes muscle differentiation by inhibiting the PI3K/AKT/mTOR signaling pathway. Journal of cellular physiology, 234(11), 21211.