

Resource Summary Report

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

Cas9m4-VP64

RRID:Addgene_47319

Type: Plasmid

Proper Citation

RRID:Addgene_47319

Plasmid Information

URL: <http://www.addgene.org/47319>

Proper Citation: RRID:Addgene_47319

Insert Name: Cas9m4-VP64

Organism: Other

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23907171](#)

Vector Backbone Description: Vector Backbone:pcDNA3.3_TOPO; Vector Types:CRISPR; Bacterial Resistance:Ampicillin

Comments: This plasmid contains a human codon optimized form of cas9.

Plasmid Name: Cas9m4-VP64

Record Creation Time: 20220422T222244+0000

Record Last Update: 20260815T081540+0000

Ratings and Alerts

No rating or validation information has been found for Cas9m4-VP64.

No alerts have been found for Cas9m4-VP64.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Weischedel J, et al. (2024) Modular cytosine base editing promotes epigenomic and genomic modifications. *Nucleic acids research*, 52(2), e8.

Velazquez JJ, et al. (2021) Gene Regulatory Network Analysis and Engineering Directs Development and Vascularization of Multilineage Human Liver Organoids. *Cell systems*, 12(1), 41.

B??hm S, et al. (2020) A gene therapy for inherited blindness using dCas9-VPR-mediated transcriptional activation. *Science advances*, 6(34), eaba5614.

Colasante G, et al. (2020) dCas9-Based Scn1a Gene Activation Restores Inhibitory Interneuron Excitability and Attenuates Seizures in Dravet Syndrome Mice. *Molecular therapy : the journal of the American Society of Gene Therapy*, 28(1), 235.

Honda T, et al. (2020) Effects of activation of the LINE-1 antisense promoter on the growth of cultured cells. *Scientific reports*, 10(1), 22136.

Colasante G, et al. (2020) In vivo CRISPRa decreases seizures and rescues cognitive deficits in a rodent model of epilepsy. *Brain : a journal of neurology*, 143(3), 891.

Chen H, et al. (2018) Aptazyme-mediated direct modulation of post-transcriptional sgRNA level for conditional genome editing and gene expression. *Journal of biotechnology*, 288, 23.

Williams RM, et al. (2018) Genome and epigenome engineering CRISPR toolkit for in vivo modulation of cis-regulatory interactions and gene expression in the chicken embryo. *Development (Cambridge, England)*, 145(4).

Ferry QR, et al. (2017) Rational design of inducible CRISPR guide RNAs for de novo assembly of transcriptional programs. *Nature communications*, 8, 14633.

Jusiak B, et al. (2016) Engineering Synthetic Gene Circuits in Living Cells with CRISPR Technology. *Trends in biotechnology*, 34(7), 535.

Chavez A, et al. (2016) Comparison of Cas9 activators in multiple species. *Nature methods*, 13(7), 563.

Chavez A, et al. (2015) Highly efficient Cas9-mediated transcriptional programming. *Nature methods*, 12(4), 326.

Gao X, et al. (2014) Comparison of TALE designer transcription factors and the CRISPR/dCas9 in regulation of gene expression by targeting enhancers. *Nucleic acids research*, 42(20), e155.