

Resource Summary Report

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

pAG414GPD-dCas9-VPR

RRID:Addgene_63801

Type: Plasmid

Proper Citation

RRID:Addgene_63801

Plasmid Information

URL: <http://www.addgene.org/63801>

Proper Citation: RRID:Addgene_63801

Insert Name: dCas9-VPR

Organism: *Saccharomyces cerevisiae*

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25730490](#)

Vector Backbone Description: Vector Backbone:pAG414GPD; Vector Types:Yeast Expression, CRISPR, Synthetic Biology; Bacterial Resistance:Ampicillin

Comments: Cas9 contains D839A and N863A mutations relative to reference sequence (WP_010922251.1). Depositor states that these mutations do not affect function.

Plasmid Name: pAG414GPD-dCas9-VPR

Record Creation Time: 20220422T222405+0000

Record Last Update: 20260815T081806+0000

Ratings and Alerts

No rating or validation information has been found for pAG414GPD-dCas9-VPR.

No alerts have been found for pAG414GPD-dCas9-VPR.

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](#) .

Jaiswal V, et al. (2023) Validation of CRISPR activation system in Aedes cells using multicistronic plasmid vectors. *Frontiers in bioengineering and biotechnology*, 11, 1142415.

Lainš?ek D, et al. (2023) Regulation of CD19 CAR-T cell activation based on an engineered downstream transcription factor. *Molecular therapy oncolytics*, 29, 77.

Praznik A, et al. (2022) Regulation of protein secretion through chemical regulation of endoplasmic reticulum retention signal cleavage. *Nature communications*, 13(1), 1323.

Mózsik L, et al. (2021) CRISPR-based transcriptional activation tool for silent genes in filamentous fungi. *Scientific reports*, 11(1), 1118.

Roux I, et al. (2020) CRISPR-Mediated Activation of Biosynthetic Gene Clusters for Bioactive Molecule Discovery in Filamentous Fungi. *ACS synthetic biology*, 9(7), 1843.

Cámara E, et al. (2020) A CRISPR activation and interference toolkit for industrial *Saccharomyces cerevisiae* strain KE6-12. *Scientific reports*, 10(1), 14605.

Meriem ZB, et al. (2019) Hyperosmotic Stress Response Memory is Modulated by Gene Positioning in Yeast. *Cells*, 8(6).

Lainš?ek D, et al. (2018) Delivery of an Artificial Transcription Regulator dCas9-VPR by Extracellular Vesicles for Therapeutic Gene Activation. *ACS synthetic biology*, 7(12), 2715.

Jensen ED, et al. (2017) Transcriptional reprogramming in yeast using dCas9 and combinatorial gRNA strategies. *Microbial cell factories*, 16(1), 46.

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

Lebar T, et al. (2016) Benchmarking of TALE- and CRISPR/dCas9-Based Transcriptional Regulators in Mammalian Cells for the Construction of Synthetic Genetic Circuits. *ACS synthetic biology*, 5(10), 1050.