Resource Summary Report

Generated by RRID on Aug 17, 2026

pdCas9

RRID:Addgene_46569
Type: Plasmid

Proper Citation

RRID:Addgene_46569

Plasmid Information

URL: http://www.addgene.org/46569

Proper Citation: RRID:Addgene_46569

Insert Name: tracrRNA

Organism: S. pyogenes

Bacterial Resistance: Chloramphenicol

Defining Citation: PMID:23761437

Vector Backbone Description: Vector Backbone:pACYC184; Vector Types:Bacterial Expression, CRISPR; Bacterial Resistance:Chloramphenicol

Plasmid Name: pdCas9

Record Creation Time: 20220422T222240+0000

Record Last Update: 20260815T081533+0000

Ratings and Alerts

No rating or validation information has been found for pdCas9.

No alerts have been found for pdCas9.

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 RRID .

Choe D, et al. (2025) Rapid identification of key antibiotic resistance genes in E. coli using high-resolution genome-scale CRISPRi screening. iScience, 28(5), 112435.

Choe D, et al. (2025) CRISPRi screening reveals E. coli's anaerobic-like respiratory adaptations to gentamicin: membrane depolarization by CpxR. mSystems, 10(7), e0035325.

Polani R, et al. (2025) Cefiderocol Resistance Conferred by Plasmid-Located Ferric Citrate Transport System in KPC-Producing Klebsiella pneumoniae. Emerging infectious diseases, 31(1), 123.

da Silva RC, et al. (2025) Engineered chromatin readers track damaged chromatin dynamics in live cells and animals. Nature communications, 16(1), 10127.

Costigan R, et al. (2022) Development and validation of a CRISPR interference system for gene regulation in Campylobacter jejuni. BMC microbiology, 22(1), 238.

?laska-Kiss K, et al. (2021) Lowering DNA binding affinity of SssI DNA methyltransferase does not enhance the specificity of targeted DNA methylation in E. coli. Scientific reports, 11(1), 15226.

Kim B, et al. (2020) Regulation of Microbial Metabolic Rates Using CRISPR Interference With Expanded PAM Sequences. Frontiers in microbiology, 11, 282.

Szentes S, et al. (2020) I-Block: a simple Escherichia coli-based assay for studying sequence-specific DNA binding of proteins. Nucleic acids research, 48(5), e28.

Kirtania P, et al. (2019) A single plasmid based CRISPR interference in Synechocystis 6803 - A proof of concept. PloS one, 14(11), e0225375.

Badri A, et al. (2019) Increased 3'-Phosphoadenosine-5'-phosphosulfate Levels in Engineered Escherichia coli Cell Lysate Facilitate the In Vitro Synthesis of Chondroitin Sulfate A. Biotechnology journal, 14(9), e1800436.

Ram G, et al. (2018) Conversion of staphylococcal pathogenicity islands to CRISPR-carrying antibacterial agents that cure infections in mice. Nature biotechnology, 36(10), 971.

Lipinszki Z, et al. (2018) Enhancing the Translational Capacity of E. coli by Resolving the Codon Bias. ACS synthetic biology, 7(11), 2656.

Tastan C, et al. (2018) Tuning of human MAIT cell activation by commensal bacteria species and MR1-dependent T-cell presentation. Mucosal immunology, 11(6), 1591.

Nuñez IN, et al. (2017) Artificial Symmetry-Breaking for Morphogenetic Engineering Bacterial Colonies. ACS synthetic biology, 6(2), 256.

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

Cress BF, et al. (2016) Rapid generation of CRISPR/dCas9-regulated, orthogonally repressible hybrid T7-lac promoters for modular, tuneable control of metabolic pathway fluxes in Escherichia coli. Nucleic acids research, 44(9), 4472.

Li XT, et al. (2016) tCRISPRi: tunable and reversible, one-step control of gene expression. Scientific reports, 6, 39076.