

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

pdCas9-bacteria

RRID:Addgene_44249

Type: Plasmid

Proper Citation

RRID:Addgene_44249

Plasmid Information

URL: <http://www.addgene.org/44249>

Proper Citation: RRID:Addgene_44249

Insert Name: dCas9 (bacteria)

Organism: S. pyogenes

Bacterial Resistance: Chloramphenicol

Defining Citation: [PMID:23452860](#)

Vector Backbone Description: Vector Backbone:p15A vector; Vector Types:Bacterial Expression, CRISPR; Bacterial Resistance:Chloramphenicol

Plasmid Name: pdCas9-bacteria

Relevant Mutation: D10A H840A (catalytically inactive)

Record Creation Time: 20220422T222229+0000

Record Last Update: 20260815T081514+0000

Ratings and Alerts

No rating or validation information has been found for pdCas9-bacteria.

No alerts have been found for pdCas9-bacteria.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 82 mentions in open access literature.

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

Mayers JR, et al. (2024) A metabolomics pipeline highlights microbial metabolism in bloodstream infections. *Cell*, 187(15), 4095.

Yang Y, et al. (2024) Re-engineered guide RNA enables DNA loops and contacts modulating repression in *E. coli*. *Nucleic acids research*, 52(15), 9328.

McGinn J, et al. (2024) An expanded genetic toolkit for inducible expression and targeted gene silencing in *Rickettsia parkeri*. *bioRxiv : the preprint server for biology*.

Van Hove B, et al. (2023) Taming CRISPRi: Dynamic range tuning through guide RNA diversion. *New biotechnology*, 77, 50.

Brychcy M, et al. (2023) AspFlex: Molecular Tools to Study Gene Expression and Regulation in *Acinetobacter baumannii*. *ACS synthetic biology*, 12(9), 2773.

Lee S, et al. (2023) dCas9-Mediated PCR-Free Detection of Oncogenic Mutation by Nonequilibrium Nanoelectrokinetic Selective Preconcentration. *Analytical chemistry*, 95(11), 5045.

Weeks R, et al. (2023) Fitness and Functional Landscapes of the *E. coli* RNase III Gene *rnc*. *Molecular biology and evolution*, 40(3).

Nardone C, et al. (2023) A central role for regulated protein stability in the control of TFE3 and MITF by nutrients. *Molecular cell*, 83(1), 57.

Wang T, et al. (2023) Spatial transcriptome uncovers rich coordination of metabolism in *E. coli* K12 biofilm. *Nature chemical biology*, 19(8), 940.

Husz??r K, et al. (2023) Position-dependent sequence motif preferences of SpCas9 are largely determined by scaffold-complementary spacer motifs. *Nucleic acids research*.

Zuberi A, et al. (2022) CRISPR Interference (CRISPRi) Mediated Suppression of *OmpR* Gene in *E. coli*: An Alternative Approach to Inhibit Biofilm. *Current microbiology*, 79(3), 78.

Luo J, et al. (2022) Engineering cell morphology by CRISPR interference in *Acinetobacter baylyi* ADP1. *Microbial biotechnology*, 15(11), 2800.

Liao X, et al. (2022) New Method for Genome-Scale Functional Genomic Study in Bacteria with Superior Performance: CRISPR Interference Screen. *Methods in molecular biology* (Clifton, N.J.), 2377, 123.

Yao S, et al. (2022) Efficient Suppression of Natural Plasmid-Borne Gene Expression in Carbapenem-Resistant *Klebsiella pneumoniae* Using a Compact CRISPR Interference System. *Antimicrobial agents and chemotherapy*, 66(11), e0089022.

Azam MW, et al. (2022) CRISPRi-mediated suppression of E. coli Nissle 1917 virulence factors: A strategy for creating an engineered probiotic using csgD gene suppression. *Frontiers in nutrition*, 9, 938989.

Barber KW, et al. (2022) CasPlay provides a gRNA-barcoded CRISPR-based display platform for antibody repertoire profiling. *Cell reports methods*, 2(10), 100318.

Ziegler M, et al. (2022) CRISPRi enables fast growth followed by stable aerobic pyruvate formation in *Escherichia coli* without auxotrophy. *Engineering in life sciences*, 22(2), 70.

Bellato M, et al. (2021) CRISPR Interference Modules as Low-Burden Logic Inverters in Synthetic Circuits. *Frontiers in bioengineering and biotechnology*, 9, 743950.

Diao J, et al. (2021) Inhibition of *Escherichia coli* Lipoprotein Diacylglycerol Transferase Is Insensitive to Resistance Caused by Deletion of Braun's Lipoprotein. *Journal of bacteriology*, 203(13), e0014921.

Silvis MR, et al. (2021) Morphological and Transcriptional Responses to CRISPRi Knockdown of Essential Genes in *Escherichia coli*. *mBio*, 12(5), e0256121.