Resource Summary Report

Generated by dkNET on Aug 17, 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 dkNET .

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 Diacylglyceryl 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.