

Resource Summary Report

Generated by [RRID](#) on Aug 18, 2026

DS-SPcas

RRID:Addgene_48645

Type: Plasmid

Proper Citation

RRID:Addgene_48645

Plasmid Information

URL: <http://www.addgene.org/48645>

Proper Citation: RRID:Addgene_48645

Insert Name: Cas9

Organism: S. pyogenes

Bacterial Resistance: Spectinomycin

Defining Citation: [PMID:24076762](#)

Vector Backbone Description: Vector Backbone:cloDF13-aadA; Vector Types:CRISPR; Bacterial Resistance:Spectinomycin

Plasmid Name: DS-SPcas

Record Creation Time: 20220422T222250+0000

Record Last Update: 20260815T081552+0000

Ratings and Alerts

No rating or validation information has been found for DS-SPcas.

No alerts have been found for DS-SPcas.

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](#) .

Pozhydaieva N, et al. (2024) Temporal epigenome modulation enables efficient bacteriophage engineering and functional analysis of phage DNA modifications. *PLoS genetics*, 20(9), e1011384.

Wolfram-Schauerte M, et al. (2023) A viral ADP-ribosyltransferase attaches RNA chains to host proteins. *Nature*, 620(7976), 1054.

Zhu J, et al. (2022) CRISPR Engineering of Bacteriophage T4 to Design Vaccines Against SARS-CoV-2 and Emerging Pathogens. *Methods in molecular biology* (Clifton, N.J.), 2410, 209.

Wu X, et al. (2021) Bacteriophage T4 Escapes CRISPR Attack by Minihomology Recombination and Repair. *mBio*, 12(3), e0136121.

Duong MM, et al. (2020) Optimization of T4 phage engineering via CRISPR/Cas9. *Scientific reports*, 10(1), 18229.

Forsberg KJ, et al. (2019) Functional metagenomics-guided discovery of potent Cas9 inhibitors in the human microbiome. *eLife*, 8.

Hubbard TP, et al. (2018) A live vaccine rapidly protects against cholera in an infant rabbit model. *Science translational medicine*, 10(445).

Napolitano MG, et al. (2016) Emergent rules for codon choice elucidated by editing rare arginine codons in *Escherichia coli*. *Proceedings of the National Academy of Sciences of the United States of America*, 113(38), E5588.

Ostrov N, et al. (2016) Design, synthesis, and testing toward a 57-codon genome. *Science* (New York, N.Y.), 353(6301), 819.

Bryson AL, et al. (2015) Covalent Modification of Bacteriophage T4 DNA Inhibits CRISPR-Cas9. *mBio*, 6(3), e00648.

Yaung SJ, et al. (2014) CRISPR/Cas9-mediated phage resistance is not impeded by the DNA modifications of phage T4. *PloS one*, 9(6), e98811.