Resource Summary Report

Generated by RRID on Aug 23, 2026

SP-Cas9

RRID:Addgene_62731
Type: Plasmid

Proper Citation

RRID:Addgene_62731

Plasmid Information

URL: http://www.addgene.org/62731

Proper Citation: RRID:Addgene_62731

Insert Name: SP-CAS9

Organism: Streptococcus pyogenes serotype M1

Bacterial Resistance: Ampicillin

Defining Citation: PMID:25910214

Vector Backbone Description: Backbone Size:5562; Vector Backbone:pET-15; Vector Types:Bacterial Expression, CRISPR; Bacterial Resistance:Ampicillin

Plasmid Name: SP-Cas9

Relevant Mutation: Codon optimazed for e.coli

Record Creation Time: 20220422T222359+0000

Record Last Update: 20260815T081755+0000

Ratings and Alerts

No rating or validation information has been found for SP-Cas9.

No alerts have been found for SP-Cas9.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 22 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID .

Bot JF, et al. (2026) Temporal dynamics of collateral RNA cleavage by LbuCas13a in human cells. Communications biology, 9(1), 233.

Norouzi M, et al. (2025) An adaptable genomic-proteomic approach to characterize cell-surface Vimentin's membrane topology and interactome. Biochemistry and biophysics reports, 44, 102242.

Bosco J, et al. (2025) A galactose-based auto-expression system improves T7-inducible protein production in Escherichia coli. Scientific reports, 15(1), 8936.

Dekker J, et al. (2025) The non-canonical thioreductase Tmx2b is essential for neuronal survival during zebrafish embryonic brain development. Development (Cambridge, England), 152(18).

Chakraborty S, et al. (2025) Deletion of a single CTCF motif at the boundary of a chromatin domain with three FGF genes disrupts gene expression and embryonic development. Developmental cell, 60(13), 1838.

Zhang H, et al. (2024) Structural basis of human 20S proteasome biogenesis. Nature communications, 15(1), 8184.

Kim GE, et al. (2024) AcrIIA28 is a metalloprotein that specifically inhibits targeted-DNA loading to SpyCas9 by binding to the REC3 domain. Nucleic acids research, 52(11), 6459.

Smits DJ, et al. (2023) CLEC16A interacts with retromer and TRIM27, and its loss impairs endosomal trafficking and neurodevelopment. Human genetics, 142(3), 379.

Golubev DS, et al. (2023) Efficient Editing of the CXCR4 Locus Using Cas9 Ribonucleoprotein Complexes Stabilized with Polyglutamic Acid. Doklady biological sciences : proceedings of the Academy of Sciences of the USSR, Biological sciences sections, 513(Suppl 1), S28.

Chakraborty S, et al. (2023) Enhancer-promoter interactions can bypass CTCF-mediated boundaries and contribute to phenotypic robustness. Nature genetics, 55(2), 280.

Walther J, et al. (2022) Impact of Formulation Conditions on Lipid Nanoparticle Characteristics and Functional Delivery of CRISPR RNP for Gene Knock-Out and Correction. Pharmaceutics, 14(1).

Berdowski WM, et al. (2022) Dominant-acting CSF1R variants cause microglial depletion and altered astrocytic phenotype in zebrafish and adult-onset leukodystrophy. Acta neuropathologica, 144(2), 211.

Maslennikova A, et al. (2022) Engineering T-Cell Resistance to HIV-1 Infection via Knock-In of Peptides from the Heptad Repeat 2 Domain of gp41. mBio, 13(1), e0358921.

Bomfim CCB, et al. (2022) Mycobacterium tuberculosis Induces Irg1 in Murine Macrophages by a Pathway Involving Both TLR-2 and STING/IFNAR Signaling and Requiring Bacterial Phagocytosis. Frontiers in cellular and infection microbiology, 12, 862582.

Zhao Z, et al. (2022) Ligation-assisted homologous recombination enables precise genome editing by deploying both MMEJ and HDR. Nucleic acids research, 50(11), e62.

Sofou K, et al. (2021) Bi-allelic VPS16 variants limit HOPS/CORVET levels and cause a mucopolysaccharidosis-like disease. EMBO molecular medicine, 13(5), e13376.

Shinoda K, et al. (2021) The dystonia gene THAP1 controls DNA double-strand break repair choice. Molecular cell, 81(12), 2611.

Kuil LE, et al. (2021) Size matters: Large copy number losses in Hirschsprung disease patients reveal genes involved in enteric nervous system development. PLoS genetics, 17(8), e1009698.

Gooden AA, et al. (2021) dbGuide: a database of functionally validated guide RNAs for genome editing in human and mouse cells. Nucleic acids research, 49(D1), D871.

Akula MK, et al. (2019) Protein prenylation restrains innate immunity by inhibiting Rac1 effector interactions. Nature communications, 10(1), 3975.