

Resource Summary Report

Generated by [dkNET](#) on Aug 25, 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 [dkNET](#) .

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.

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.

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).

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.