

Resource Summary Report

Generated by [NIF](#) on Sep 7, 2026

hCas9

RRID:Addgene_41815

Type: Plasmid

Proper Citation

RRID:Addgene_41815

Plasmid Information

URL: <http://www.addgene.org/41815>

Proper Citation: RRID:Addgene_41815

Insert Name: Cas9

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23287722](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Vector Backbone:pcDNA3.3-TOPO; Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Ampicillin

Comments: For additional information: http://arep.med.harvard.edu/human_crispr/

Plasmid Name: hCas9

Relevant Mutation: human codon-optimized

Record Creation Time: 20220422T222216+0000

Record Last Update: 20260905T075622+0000

Ratings and Alerts

No rating or validation information has been found for hCas9.

No alerts have been found for hCas9.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 453 mentions in open access literature.

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

Tolbert Z, et al. (2026) RAD54L promotes nascent DNA degradation and radial chromosome formation in FANC-deficient cells. *bioRxiv : the preprint server for biology*.

Grammatikakis I, et al. (2026) Intron Retention Controls Localization of lncRNAs PURPL and MALAT1 to Promote Cell Proliferation and Migration. *bioRxiv : the preprint server for biology*.

Deriglazova IO, et al. (2026) The Chimeric Nuclease SpRYc Exhibits Highly Variable Performance Across Biological Systems. *International journal of molecular sciences*, 27(1).

Tan K, et al. (2026) Treatment of Huntington's disease with a pan-HTT-targeting CRISPR nuclease. *Molecular therapy : the journal of the American Society of Gene Therapy*.

Szkodny AC, et al. (2025) A Flexible Hybrid Site-Specific Integration-Based Expression System in CHO Cells for Higher-Throughput Evaluation of Monoclonal Antibody Expression Cassettes. *Biotechnology journal*, 20(1), e202400520.

Shock LS, et al. (2025) Cytosine methylase and hydroxymethylase activity in mammalian mitochondria. *Frontiers in cell and developmental biology*, 13, 1677402.

Minowa-Nozawa A, et al. (2025) RabGAP1L modulates Rab7A and Rab10 to orchestrate cell-autonomous immunity. *Cell reports*, 44(5), 115599.

Ogawa Y, et al. (2025) GATA4 binding to the Sox9 enhancer mXYSRa/Enh13 is critical for testis differentiation in mouse. *Communications biology*, 8(1), 81.

Mladenov E, et al. (2025) CRISPR/Cas9 generated DSB clusters mimic complex lesions induced by high-LET radiation and shift repair from c-NHEJ to mutagenic repair pathways. *Scientific reports*, 15(1), 36480.

El Bouazzaoui L, et al. (2025) BRAFV600E maintains the CpG island methylator phenotype, and DNA methylation of PRC2 targets genes in colon cancer. *iScience*, 28(7), 112905.

Hirose J, et al. (2025) Targeted in vivo gene integration of a secretion-enabled GLP-1 receptor agonist reverses diet-induced non-genetic obesity and pre-diabetes. *Communications medicine*, 5(1), 269.

El Bouazzaoui L, et al. (2025) BRAFV600E augments WNT signaling in colorectal cancer via aberrant DNA methylation. *iScience*, 28(7), 112708.

Chou PC, et al. (2025) Phase separation of TTBK2 and CEP164 is necessary for ciliogenesis. *Cell reports*, 44(6), 115810.

Ye Y, et al. (2025) DNA-damage orchestrates self-renewal and differentiation via reciprocal p53 family and Hippo/Wnt/TGF- β pathway activation in embryonic stem cells. Cellular and molecular life sciences : CMLS, 82(1), 38.

Mori LP, et al. (2025) The p400 complex promotes HIV-1 latency by suppressing viral transcription and altering the host cell state. Nucleic acids research, 53(15).

Tan K, et al. (2025) Treatment of Huntington's disease with a pan-HTT-targeting CRISPR nuclease. bioRxiv : the preprint server for biology.

Simpson JE, et al. (2024) Autophagy supports PDGFRA-dependent brain tumor development by enhancing oncogenic signaling. Developmental cell, 59(2), 228.

Su W, et al. (2024) Furin Egress from the TGN is Regulated by Membrane-Associated RING-CH Finger (MARCF) Proteins and Ubiquitin-Specific Protease 32 (USP32) via Nondegradable K33-Polyubiquitination. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(35), e2403732.

Matsumoto D, et al. (2024) SpCas9-HF1 enhances accuracy of cell cycle-dependent genome editing by increasing HDR efficiency, and by reducing off-target effects and indel rates. Molecular therapy. Nucleic acids, 35(1), 102124.

Dai L, et al. (2024) Identification and Validation of New DNA-PKcs Inhibitors through High-Throughput Virtual Screening and Experimental Verification. International journal of molecular sciences, 25(14).