

Resource Summary Report

Generated by [FDI Lab - SciCrunch.org](#) on Apr 22, 2025

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/ For more information on Church Lab CRISPR Plasmids please refer to: <http://www.addgene.org/crispr/church/>

Plasmid Name: hCas9

Relevant Mutation: human codon-optimized

Record Creation Time: 20220422T222216+0000

Record Last Update: 20220422T224030+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 51 mentions in open access literature.

Listed below are recent publications. The full list is available at [FDI Lab - SciCrunch.org](#).

Su W, et al. (2024) Furin Egress from the TGN is Regulated by Membrane-Associated RING-CH Finger (MARCHF) 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.

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

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).

Makar AN, et al. (2024) The V-ATPase complex component RNaseK is required for lysosomal hydrolase delivery and autophagosome degradation. *Nature communications*, 15(1), 7743.

Jeon Y, et al. (2024) RNA-mediated double-strand break repair by end-joining mechanisms. *Nature communications*, 15(1), 7935.

Elbassiouny AA, et al. (2024) Evolution of a novel regulatory mechanism of hypoxia inducible factor in hypoxia-tolerant electric fishes. *The Journal of biological chemistry*, 300(3), 105727.

Ma X, et al. (2024) γ -catenin mediates endodermal commitment of human ES cells via distinct transactivation functions. *Cell & bioscience*, 14(1), 96.

Shi H, et al. (2024) Exonuclease editor promotes precision of gene editing in mammalian cells. *BMC biology*, 22(1), 119.

Li M, et al. (2024) AMPK targets PDZD8 to trigger carbon source shift from glucose to glutamine. *Cell research*, 34(10), 683.

Ecard J, et al. (2024) Lysosomal membrane proteins LAMP1 and LIMP2 are segregated in the Golgi apparatus independently of their clathrin adaptor binding motif. *Molecular biology of the cell*, 35(3), ar42.

Kong X, et al. (2024) Engineered FSHD mutations results in D4Z4 heterochromatin disruption and feedforward DUX4 network activation. *iScience*, 27(4), 109357.

Ma S, et al. (2024) Tumor Pigmentation Does Not Affect Light-Activated Belzupacap Sarotalocan Treatment but Influences Macrophage Polarization in a Murine Melanoma Model. *Investigative ophthalmology & visual science*, 65(1), 42.

Pan KW, et al. (2024) Perinuclear assembly of vimentin intermediate filaments induces cancer cell nuclear dysmorphia. *The Journal of biological chemistry*, 300(12), 107981.

Yunusova AM, et al. (2024) Assessing cell lines with inducible depletion of cohesin and condensins components through analysis of metaphase chromosome morphology. *Vavilovskii zhurnal genetiki i selektsii*, 28(2), 138.

Mao R, et al. (2024) Conditional chemoconnectomics (cCCTomics) as a strategy for efficient and conditional targeting of chemical transmission. *eLife*, 12.

Morley V, et al. (2023) In vivo¹⁸F-DOPA PET imaging identifies a dopaminergic deficit in a rat model with a G51D α -synuclein mutation. *Frontiers in neuroscience*, 17, 1095761.

Mauri S, et al. (2023) USP8 Down-Regulation Promotes Parkin-Independent Mitophagy in the *Drosophila* Brain and in Human Neurons. *Cells*, 12(8).

Kraus F, et al. (2023) PARK15/FBXO7 is dispensable for PINK1/Parkin mitophagy in iNeurons and HeLa cell systems. *EMBO reports*, 24(8), e56399.

Kijima T, et al. (2023) CatSper mediates not only chemotactic behavior but also the motility of ascidian sperm. *Frontiers in cell and developmental biology*, 11, 1136537.