

Resource Summary Report

Generated by [SPARC SAWG](#) on Sep 22, 2026

[xCas9 3.7](#)

RRID:Addgene_108379

Type: Plasmid

Proper Citation

RRID:Addgene_108379

Plasmid Information

URL: <http://www.addgene.org/108379>

Proper Citation: RRID:Addgene_108379

Insert Name: xCas9 3.7

Organism: Synthetic

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29512652](#)

Vector Backbone Description: Vector Backbone:pCMV; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: xCas9 3.7

Relevant Mutation: A262T, R324L, S409I, E480K, E543D, M694I, E1219V

Record Creation Time: 20220422T221526+0000

Record Last Update: 20260919T090454+0000

Ratings and Alerts

No rating or validation information has been found for xCas9 3.7.

No alerts have been found for xCas9 3.7.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

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.

Terrone S, et al. (2022) RNA helicase-dependent gene looping impacts messenger RNA processing. *Nucleic acids research*, 50(16), 9226.

Abdullah , et al. (2022) Adenine Base Editing System for Pseudomonas and Prediction Workflow for Protein Dysfunction via ABE. *ACS synthetic biology*, 11(4), 1650.

Wang Q, et al. (2021) Precise and broad scope genome editing based on high-specificity Cas9 nickases. *Nucleic acids research*, 49(2), 1173.

Bak SY, et al. (2021) Quantitative assessment of engineered Cas9 variants for target specificity enhancement by single-molecule reaction pathway analysis. *Nucleic acids research*, 49(19), 11312.

Aschenbrenner S, et al. (2020) Coupling Cas9 to artificial inhibitory domains enhances CRISPR-Cas9 target specificity. *Science advances*, 6(6), eaay0187.

Liu KI, et al. (2019) Genome Editing in Mammalian Cell Lines using CRISPR-Cas. *Journal of visualized experiments : JoVE*(146).

Haldeman JM, et al. (2019) Creation of versatile cloning platforms for transgene expression and dCas9-based epigenome editing. *Nucleic acids research*, 47(4), e23.

Suzuki K, et al. (2019) Precise in vivo genome editing via single homology arm donor mediated intron-targeting gene integration for genetic disease correction. *Cell research*, 29(10), 804.

Lee JK, et al. (2018) Directed evolution of CRISPR-Cas9 to increase its specificity. *Nature communications*, 9(1), 3048.