Resource Summary Report

Generated by SPARC SAWG on Aug 10, 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: 20260808T080407+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.