

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 10, 2026

pXR003: CasRx gRNA cloning backbone

RRID:Addgene_109053

Type: Plasmid

Proper Citation

RRID:Addgene_109053

Plasmid Information

URL: <http://www.addgene.org/109053>

Proper Citation: RRID:Addgene_109053

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29551272](#)

Vector Backbone Description: Backbone Size:2686; Vector Backbone:pUC19; Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Ampicillin

Plasmid Name: pXR003: CasRx gRNA cloning backbone

Record Creation Time: 20220422T221529+0000

Record Last Update: 20260808T080414+0000

Ratings and Alerts

No rating or validation information has been found for pXR003: CasRx gRNA cloning backbone.

No alerts have been found for pXR003: CasRx gRNA cloning backbone.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 39 mentions in open access literature.

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

Walter DM, et al. (2025) U2AF1 mutations rescue deleterious exon skipping induced by KRAS mutations. *bioRxiv : the preprint server for biology*.

Kiriakopoulos K, et al. (2025) LncRNA CISTR-ACT regulates cell size in human and mouse by guiding FOSL2. *Nature communications*, 17(1), 872.

Zhang X, et al. (2025) Saikosaponin D triggers cancer cell death by targeting the PIM1/c-Myc axis to reprogram oncogenic alternative splicing. *Cell death discovery*, 11(1), 427.

Lin L, et al. (2025) CRISPR/Cas13-Mediated Inhibition of EBNA1 for Suppression of Epstein-Barr Virus Transcripts and DNA Load in Nasopharyngeal Carcinoma Cells. *Viruses*, 17(7).

Lin Y, et al. (2025) RNA-Targeting CRISPR/CasRx system relieves disease symptoms in Huntington's disease models. *Molecular neurodegeneration*, 20(1), 4.

Sun Q, et al. (2025) Systematic screening for functional exon-skipping isoforms using the CRISPR-RfxCas13d system. *Cell systems*, 16(8), 101351.

Wang Q, et al. (2025) Cell surface heparan sulfate is an attachment receptor for grass carp reovirus. *iScience*, 28(3), 112033.

Zhang Y, et al. (2025) Ezetimibe Engineered L14-8 Suppresses Advanced Prostate Cancer by Activating PLK1/TP53-SAT1-Induced Ferroptosis. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 12(29), e04192.

Lin XL, et al. (2025) CRISPR/Cas-mediated mRNA knockdown in the embryos of *Xenopus tropicalis*. *Cell & bioscience*, 15(1), 52.

Li JD, et al. (2024) Efficient, specific, and combinatorial control of endogenous exon splicing with dCasRx-RBM25. *Molecular cell*, 84(13), 2573.

Recinos Y, et al. (2024) CRISPR-dCas13d-based deep screening of proximal and distal splicing-regulatory elements. *Nature communications*, 15(1), 3839.

Tang YH, et al. (2024) CRISPR-Cas13-mediated RNA editing in the silkworm *Bombyx mori*. *Zoological research*, 45(6), 1249.

Liu H, et al. (2024) CD36 inhibition reduces non-small-cell lung cancer development through AKT-mTOR pathway. *Cell biology and toxicology*, 40(1), 10.

Spencer KP, et al. (2023) CRISPR-based resistance to grapevine virus A. *Frontiers in plant science*, 14, 1296251.

Zhang F, et al. (2023) Multiplexed inhibition of immunosuppressive genes with Cas13d for on-demand combinatorial cancer immunotherapy. *bioRxiv : the preprint server for biology*.

Keng CT, et al. (2023) AAV-CRISPR-Cas13 eliminates human enterovirus and prevents death of infected mice. *EBioMedicine*, 93, 104682.

Shi P, et al. (2023) Collateral activity of the CRISPR/RfxCas13d system in human cells. *Communications biology*, 6(1), 334.

Xie B, et al. (2023) Noncoding function of super enhancer derived mRNA in modulating neighboring gene expression and TAD interaction. *bioRxiv : the preprint server for biology*.

Sakashita A, et al. (2023) Transcription of MERV1 retrotransposons is required for preimplantation embryo development. *Nature genetics*, 55(3), 484.

Liang L, et al. (2023) Complementary Alu sequences mediate enhancer-promoter selectivity. *Nature*, 619(7971), 868.