

Resource Summary Report

Generated by [NIF](#) on Sep 1, 2026

pUC57-sgRNA expression vector

RRID:Addgene_51132

Type: Plasmid

Proper Citation

RRID:Addgene_51132

Plasmid Information

URL: <http://www.addgene.org/51132>

Proper Citation: RRID:Addgene_51132

Insert Name: sgRNA scaffold

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:24584192](#)

Vector Backbone Description: Vector Backbone:pUC57; Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Kanamycin

Plasmid Name: pUC57-sgRNA expression vector

Record Creation Time: 20220422T222301+0000

Record Last Update: 20260829T080637+0000

Ratings and Alerts

No rating or validation information has been found for pUC57-sgRNA expression vector.

No alerts have been found for pUC57-sgRNA expression vector.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 114 mentions in open access literature.

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

Fronza F, et al. (2025) A streamlined tandem affinity purification of His-MBP-SpyCas9, without buffer exchange, suitable for in vitro cleavage applications. *MethodsX*, 14, 103368.

Wang Q, et al. (2025) In vivo proteomic labeling reveals diverse proteomes for therapeutic targets. *Molecular cell*, 85(24), 4651.

Zhou F, et al. (2025) Stabilisation of PRCP by deubiquitinase-targeting chimera (DUBTAC) to replenish autophagy for ameliorating pathological cardiac hypertrophy. *British journal of pharmacology*.

Jiang X, et al. (2025) Deubiquitinase Ubiquitin-Specific Protease 29 Ameliorates Pathological Cardiac Hypertrophy through Inhibiting Transforming Growth Factor β -Activated Kinase 1. *Journal of the American Heart Association*, 14(6), e034962.

Lee D, et al. (2025) Centrobin serves as a safeguard to guide timely centriole maturation during the cell cycle. *Scientific reports*, 15(1), 9280.

Pang Y, et al. (2025) Trim38 attenuates pressure overload-induced cardiac hypertrophy by suppressing the TAK1/JNK/P38 signaling pathway. *International journal of molecular medicine*, 55(6).

Fronza F, et al. (2025) RepFluo, a Fast Fluorescent In Vitro Assay of Cas9 Activity Exploiting Melting Curve Analysis. *ACS omega*, 10(45), 53816.

Parkinson JE, et al. (2025) Generation of a Ym1 deficient mouse utilising CRISPR-Cas9 in CB6 embryos. *Transgenic research*, 34(1), 44.

Salem AR, et al. (2024) Prime editing in mice with an engineered pegRNA. *Vascular pharmacology*, 154, 107269.

Ruan T, et al. (2024) Deficiency of IQCH causes male infertility in humans and mice. *eLife*, 12.

Wan H, et al. (2024) RING finger protein 5 protects against acute myocardial infarction by inhibiting ASK1. *BMC cardiovascular disorders*, 24(1), 406.

Lee JG, et al. (2024) PIBF1 regulates trophoblast syncytialization and promotes cardiovascular development. *Nature communications*, 15(1), 1487.

Briski O, et al. (2024) Comparison of ICSI, IVF, and in vivo derived embryos to produce CRISPR-Cas9 gene-edited pigs for xenotransplantation. *Theriogenology*, 220, 43.

Peng H, et al. (2024) NR4A3 prevents diabetes induced atrial cardiomyopathy by maintaining mitochondrial energy metabolism and reducing oxidative stress. *EBioMedicine*, 106, 105268.

Li J, et al. (2023) TRAF Family Member 4 Promotes Cardiac Hypertrophy Through the Activation of the AKT Pathway. *Journal of the American Heart Association*, 12(17),

e028185.

Jiang L, et al. (2023) Lysosomal-associated protein transmembrane 5 ameliorates non-alcoholic steatohepatitis by promoting the degradation of CDC42 in mice. *Nature communications*, 14(1), 2654.

Liu A, et al. (2023) GC-biased gene conversion drives accelerated evolution of ultraconserved elements in mammalian and avian genomes. *Genome research*, 33(10), 1673.

Huang P, et al. (2023) YTHDF1 Attenuates TBI-Induced Brain-Gut Axis Dysfunction in Mice. *International journal of molecular sciences*, 24(4).

Ghanam AR, et al. (2023) Alternative transcribed 3' isoform of long non-coding RNA Malat1 inhibits mouse retinal oxidative stress. *iScience*, 26(1), 105740.

Niu H, et al. (2023) Scd1 Deficiency in Early Embryos Affects Blastocyst ICM Formation through RPs-Mdm2-p53 Pathway. *International journal of molecular sciences*, 24(2).