

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 31, 2026

pUC119-gRNA

RRID:Addgene_52255

Type: Plasmid

Proper Citation

RRID:Addgene_52255

Plasmid Information

URL: <http://www.addgene.org/52255>

Proper Citation: RRID:Addgene_52255

Insert Name: guide RNA targeting AtPDS3

Organism: Arabidopsis thaliana

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:23929339](#)

Vector Backbone Description: Backbone Size:3162; Vector Backbone:pUC119; Vector Types:CRISPR, Plant expression; Bacterial Resistance:Ampicillin

Comments: gRNA target sequence GGACTTTTGCCAGCCATGGT This plasmid is used as a PCR template to assemble new desired guide RNA according to the strategy published in Figure S5 of our Nature Biotechnology paper.

Plasmid Name: pUC119-gRNA

Record Creation Time: 20220422T222307+0000

Record Last Update: 20260829T080648+0000

Ratings and Alerts

No rating or validation information has been found for pUC119-gRNA.

No alerts have been found for pUC119-gRNA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 6 mentions in open access literature.

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

van Belle J, et al. (2025) Direct and indirect effects of multiplex genome editing of F5H and FAD2 in oil crop camelina. Plant biotechnology journal, 23(5), 1399.

L??pez CM, et al. (2025) CRISPR/Cas9 editing of two adenine phosphoribosyl transferase coding genes reveals the functional specialization of adenine salvage proteins in common bean. Journal of experimental botany, 76(2), 346.

Ly DNP, et al. (2023) Multiplex CRISPR-Cas9 Gene-Editing Can Deliver Potato Cultivars with Reduced Browning and Acrylamide. Plants (Basel, Switzerland), 12(2).

Petersen BL, et al. (2019) Improved CRISPR/Cas9 gene editing by fluorescence activated cell sorting of green fluorescence protein tagged protoplasts. BMC biotechnology, 19(1), 36.

Li JF, et al. (2015) Targeted plant genome editing via the CRISPR/Cas9 technology. Methods in molecular biology (Clifton, N.J.), 1284, 239.

Li JF, et al. (2014) Cas9-based genome editing in Arabidopsis and tobacco. Methods in enzymology, 546, 459.