

Resource Summary Report

Generated by [RRID](#) on Aug 17, 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: 20260815T081626+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 [RRID](#) .

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.