

Resource Summary Report

Generated by [RRID](#) on Aug 26, 2026

pDIRECT_21C

RRID:Addgene_91130

Type: Plasmid

Proper Citation

RRID:Addgene_91130

Plasmid Information

URL: <http://www.addgene.org/91130>

Proper Citation: RRID:Addgene_91130

Insert Name: Engineering Reagent: 35S:Csy4-P2A-AtCas9 + CmYLCV:gRNAs with Csy4 spacers

Organism: Synthetic

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:28522548](#)

Vector Backbone Description: Vector Backbone:pTRANS_210d; Vector Types:Plant Expression, CRISPR; Bacterial Resistance:Kanamycin

Plasmid Name: pDIRECT_21C

Record Creation Time: 20220422T222617+0000

Record Last Update: 20260815T082215+0000

Ratings and Alerts

No rating or validation information has been found for pDIRECT_21C.

No alerts have been found for pDIRECT_21C.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 1 mentions in open access literature.

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

Liu Y, et al. (2019) Targeted deletion of floral development genes in Arabidopsis with CRISPR/Cas9 using the RNA endoribonuclease Csy4 processing system. Horticulture research, 6, 99.