

Resource Summary Report

Generated by [dkNET](#) on Sep 3, 2026

pDIRECT_22D

RRID:Addgene_91136

Type: Plasmid

Proper Citation

RRID:Addgene_91136

Plasmid Information

URL: <http://www.addgene.org/91136>

Proper Citation: RRID:Addgene_91136

Insert Name: Engineering Reagent: 35S:Csy4-P2A-AtCas9_dead + CmYLCV:gRNAs with Csy4 spacers

Organism: Synthetic

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:28522548](#)

Vector Backbone Description: Vector Backbone:pTRANS_220d; Vector Types:Plant Expression, CRISPR; Bacterial Resistance:Kanamycin

Plasmid Name: pDIRECT_22D

Relevant Mutation: D10A, H840A

Record Creation Time: 20220422T222617+0000

Record Last Update: 20260902T050510+0000

Ratings and Alerts

No rating or validation information has been found for pDIRECT_22D.

No alerts have been found for pDIRECT_22D.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.