

# Resource Summary Report

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

## pDIRECT\_23D

RRID:Addgene\_91141

Type: Plasmid

### Proper Citation

RRID:Addgene\_91141

### Plasmid Information

**URL:** <http://www.addgene.org/91141>

**Proper Citation:** RRID:Addgene\_91141

**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\_230d; Vector Types:Plant Expression, CRISPR; Bacterial Resistance:Kanamycin

**Plasmid Name:** pDIRECT\_23D

**Relevant Mutation:** D10A, H840A

**Record Creation Time:** 20220422T222617+0000

**Record Last Update:** 20260815T082215+0000

### Ratings and Alerts

No rating or validation information has been found for pDIRECT\_23D.

No alerts have been found for pDIRECT\_23D.

### Data and Source Information

**Source:** [Addgene](#)

## Usage and Citation Metrics

We have not found any literature mentions for this resource.