

Resource Summary Report

Generated by [RRID](#) on Aug 21, 2026

[pDB4281](#)

RRID:Addgene_98700

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/98700>

Proper Citation: RRID:Addgene_98700

Insert Name: Cas9

Organism: Other

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29703785](#)

Vector Backbone Description: Vector Backbone:pMZ374 (Addgene 59896); Vector Types:Yeast Expression, CRISPR; Bacterial Resistance:Ampicillin

Comments: These plasmids are used for a cloning-free method of CRISPR/Cas9-mediated genome editing in fission yeast. This method takes advantage of gap repair in fission yeast cells to assemble two linear DNA fragments, a gapped Cas9-encoding plasmid and a PCR-amplified gRNA insert, into a circular plasmid. To reduce non-specific gap repair background, we adopt a split-marker strategy. pDB4280 and pDB4282 serve as the source of the gapped plasmid and the PCR template for gRNA insert amplification, respectively, in the split-ura4 system. pDB4281 and pDB4283 serve the same purposes for the split-bsdMX system. pDB4279 is a transformation control for the split-bsdMX system.

Plasmid Name: pDB4281

Record Creation Time: 20220422T222631+0000

Record Last Update: 20260815T082240+0000

Ratings and Alerts

No rating or validation information has been found for pDB4281.

No alerts have been found for pDB4281.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.