

Resource Summary Report

Generated by [RRID](#) on Aug 20, 2026

[pDB4280](#)

RRID:Addgene_98699

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/98699>

Proper Citation: RRID:Addgene_98699

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: pDB4280

Record Creation Time: 20220422T222631+0000

Record Last Update: 20260815T082240+0000

Ratings and Alerts

No rating or validation information has been found for pDB4280.

No alerts have been found for pDB4280.

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](#) .

Matsuyama A, et al. (2023) A set of vectors and strains for chromosomal integration in fission yeast. Scientific reports, 13(1), 9295.