

Resource Summary Report

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

[pMZ374](#)

RRID:Addgene_59896

Type: Plasmid

Proper Citation

RRID:Addgene_59896

Plasmid Information

URL: <http://www.addgene.org/59896>

Proper Citation: RRID:Addgene_59896

Insert Name: Cas9

Organism: Other

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25352017](#)

Vector Backbone Description: Backbone Size:6215; Vector Backbone:pMZ283; Vector Types:Yeast Expression, CRISPR; Bacterial Resistance:Ampicillin

Comments: Please note that some batches of CspCI from New England Biolabs may cut inefficiently and alters the mobility of the DNA, possibly because it remains bound to the target. The two batches that are known to work are 0041303 and 0051407. This may be due to the particular target sequence present in pMZ283 and pMZ374.

Plasmid Name: pMZ374

Relevant Mutation: Silent mutation of the CspCI site

Record Creation Time: 20220422T222344+0000

Record Last Update: 20260815T081727+0000

Ratings and Alerts

No rating or validation information has been found for pMZ374.

No alerts have been found for pMZ374.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Xu Y, et al. (2025) DNA nicks in both leading and lagging strand templates can trigger break-induced replication. *Molecular cell*, 85(1), 91.

Princov?? J, et al. (2023) Perturbed fatty-acid metabolism is linked to localized chromatin hyperacetylation, increased stress-response gene expression and resistance to oxidative stress. *PLoS genetics*, 19(1), e1010582.

Zhang XR, et al. (2018) A Cloning-Free Method for CRISPR/Cas9-Mediated Genome Editing in Fission Yeast. *G3 (Bethesda, Md.)*, 8(6), 2067.

Takayama S, et al. (2018) Enhancing 3-hydroxypropionic acid production in combination with sugar supply engineering by cell surface-display and metabolic engineering of *Schizosaccharomyces pombe*. *Microbial cell factories*, 17(1), 176.

Ozaki A, et al. (2017) Metabolic engineering of *Schizosaccharomyces pombe* via CRISPR-Cas9 genome editing for lactic acid production from glucose and cellobiose. *Metabolic engineering communications*, 5, 60.