

Resource Summary Report

Generated by [RRID](#) on Aug 23, 2026

pCRCT

RRID:Addgene_60621

Type: Plasmid

Proper Citation

RRID:Addgene_60621

Plasmid Information

URL: <http://www.addgene.org/60621>

Proper Citation: RRID:Addgene_60621

Insert Name: iCas9

Organism: Streptococcus pyogenes

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25207793](#)

Vector Backbone Description: Backbone Size:5000; Vector Backbone:pRS426; Vector Types:Yeast Expression, CRISPR; Bacterial Resistance:Ampicillin

Plasmid Name: pCRCT

Relevant Mutation: changed Aspartate 147 to Tyrosine, Proline 411 to Threonine

Record Creation Time: 20220422T222348+0000

Record Last Update: 20260815T081734+0000

Ratings and Alerts

No rating or validation information has been found for pCRCT.

No alerts have been found for pCRCT.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Dea A, et al. (2026) Physiological architecture and evolutionary origins of cellular adaptability. bioRxiv : the preprint server for biology.

Prem R, et al. (2026) Rewiring Mitochondrial Phosphatidylethanolamine Metabolism Identifies New and Unaccounted Trafficking Steps. bioRxiv : the preprint server for biology.

Liu X, et al. (2025) SELECT: high-precision genome editing strategy via integration of CRISPR-Cas and DNA damage response for cross-species applications. Nucleic acids research, 53(12).

Wang G, et al. (2025) Introduction of human m6Am methyltransferase PCIF1 facilitates the biosynthesis of terpenoids in *Saccharomyces cerevisiae*. Microbial cell factories, 24(1), 78.

Lin C, et al. (2024) Metabolic engineering of *Saccharomyces cerevisiae* for high-level production of (+)-ambrein from glucose. Biotechnology letters, 46(4), 615.

Deng L, et al. (2024) Massively parallel CRISPR-assisted homologous recombination enables saturation editing of full-length endogenous genes in yeast. Science advances, 10(20), ead9382.

Senoo N, et al. (2024) Functional diversity among cardiolipin binding sites on the mitochondrial ADP/ATP carrier. The EMBO journal, 43(14), 2979.

Senoo N, et al. (2023) Conserved cardiolipin-mitochondrial ADP/ATP carrier interactions assume distinct structural and functional roles that are clinically relevant. bioRxiv : the preprint server for biology.

Ji Z, et al. (2023) Functional characterization of triterpene synthases in *Cibotium barometz*. Synthetic and systems biotechnology, 8(3), 437.

Stolp ZD, et al. (2022) Yeast cell death pathway requiring AP-3 vesicle trafficking leads to vacuole/lysosome membrane permeabilization. Cell reports, 39(2), 110647.

Spasskaya DS, et al. (2020) Yeast Rpn4 Links the Proteasome and DNA Repair via RAD52 Regulation. International journal of molecular sciences, 21(21).

Bond CM, et al. (2019) Engineering *Saccharomyces cerevisiae* for production of simvastatin. Metabolic engineering, 51, 1.

Naseri G, et al. (2019) COMPASS for rapid combinatorial optimization of biochemical pathways based on artificial transcription factors. Nature communications, 10(1), 2615.

Yee DA, et al. (2019) Engineered mitochondrial production of monoterpenes in *Saccharomyces cerevisiae*. Metabolic engineering, 55, 76.

Wang L, et al. (2018) Efficient CRISPR-Cas9 mediated multiplex genome editing in yeasts. *Biotechnology for biofuels*, 11, 277.

Gorter de Vries AR, et al. (2017) CRISPR-Cas9 mediated gene deletions in lager yeast *Saccharomyces pastorianus*. *Microbial cell factories*, 16(1), 222.

Ogunbona OB, et al. (2017) Multitiered and Cooperative Surveillance of Mitochondrial Phosphatidylserine Decarboxylase 1. *Molecular and cellular biology*, 37(17).

Billingsley JM, et al. (2017) Engineering the biocatalytic selectivity of iridoid production in *Saccharomyces cerevisiae*. *Metabolic engineering*, 44, 117.