

Resource Summary Report

Generated by [RRID](#) on Aug 19, 2026

[pCAS](#)

RRID:Addgene_60847

Type: Plasmid

Proper Citation

RRID:Addgene_60847

Plasmid Information

URL: <http://www.addgene.org/60847>

Proper Citation: RRID:Addgene_60847

Insert Name: S. pyogenese Cas9

Organism: streptococcus pyogenes

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:25139909](#)

Vector Backbone Description: Vector Backbone:2-micron/pUC; Vector Types:Bacterial Expression, Yeast Expression, CRISPR, Synthetic Biology; Bacterial Resistance:Kanamycin

Plasmid Name: pCAS

Record Creation Time: 20220422T222349+0000

Record Last Update: 20260815T081737+0000

Ratings and Alerts

No rating or validation information has been found for pCAS.

No alerts have been found for pCAS.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 32 mentions in open access literature.

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

Jiang C, et al. (2026) An Episomal Clustered Regularly Interspaced Short Palindromic Repeats/Cas9 System for Transgene-Free Multiplex Gene Editing in Pig Cells. *Biology*, 15(10).

Wang Y, et al. (2025) A unique mechanism of snRNP core assembly. *Nature communications*, 16(1), 3166.

Dibyachintan S, et al. (2025) Cryptic genetic variation shapes the fate of gene duplicates in a protein interaction network. *Nature communications*, 16(1), 1530.

He Q, et al. (2025) Translation Inhibition by Rocaglamide A Enhances Susceptibility of Yeasts to Caspofungin. *bioRxiv : the preprint server for biology*.

Arnold CJ, et al. (2025) Resistance of ERG24 sterol C-14 reductase to heterocyclic amine antifungals. *npj antimicrobials and resistance*, 3(1), 83.

Jordan DF, et al. (2025) Residues neighboring an SH3-binding motif participate in the interaction in vivo. *Genetics*, 231(2).

Czechowski T, et al. (2025) Evolution of linear triterpenoid biosynthesis within the *Euphorbia* genus. *Nature communications*, 16(1), 5602.

Mangkalaphiban K, et al. (2024) Pleiotropic effects of PAB1 deletion: Extensive changes in the yeast proteome, transcriptome, and translome. *PLoS genetics*, 20(9), e1011392.

Hénault M, et al. (2024) The genomic landscape of transposable elements in yeast hybrids is shaped by structural variation and genotype-specific modulation of transposition rate. *eLife*, 12.

Mangkalaphiban K, et al. (2023) Direct and indirect consequences of PAB1 deletion in the regulation of translation initiation, translation termination, and mRNA decay. *bioRxiv : the preprint server for biology*.

Hu Y, et al. (2023) Mechanism of assembly of snRNP cores assisted by ICln and the SMN complex in fission yeast. *iScience*, 26(9), 107604.

Gnügge R, et al. (2023) Sequence and chromatin features guide DNA double-strand break resection initiation. *Molecular cell*, 83(8), 1237.

Kim MJ, et al. (2022) A new platform host for strong expression under GAL promoters without inducer in *Saccharomyces cerevisiae*. *Biotechnology reports (Amsterdam, Netherlands)*, 36, e00763.

Bean BDM, et al. (2022) The MyLO CRISPR-Cas9 toolkit: a markerless yeast localization and overexpression CRISPR-Cas9 toolkit. *G3 (Bethesda, Md.)*, 12(8).

Aguilar RR, et al. (2022) A Simple, Improved Method for Scarless Genome Editing of Budding Yeast Using CRISPR-Cas9. *Methods and protocols*, 5(5).

Armaleo D, et al. (2021) Modeling in yeast how rDNA introns slow growth and increase desiccation tolerance in lichens. *G3* (Bethesda, Md.), 11(11).

Cravens A, et al. (2021) Polymerase-guided base editing enables in vivo mutagenesis and rapid protein engineering. *Nature communications*, 12(1), 1579.

Khattab SMR, et al. (2021) Efficient Conversion of Glycerol to Ethanol by an Engineered *Saccharomyces cerevisiae* Strain. *Applied and environmental microbiology*, 87(23), e0026821.

Wang J, et al. (2021) Engineering a PAM-flexible SpdCas9 variant as a universal gene repressor. *Nature communications*, 12(1), 6916.

Liu Y, et al. (2021) Stress tolerance enhancement via SPT15 base editing in *Saccharomyces cerevisiae*. *Biotechnology for biofuels*, 14(1), 155.