

Resource Summary Report

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

pHO4d-Cas9

RRID:Addgene_67881

Type: Plasmid

Proper Citation

RRID:Addgene_67881

Plasmid Information

URL: <http://www.addgene.org/67881>

Proper Citation: RRID:Addgene_67881

Insert Name: Cas9

Organism: Streptococcus pyogenes M1

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25399416](#)

Vector Backbone Description: Backbone Size:5712; Vector Backbone:pHO4D; Vector Types:Bacterial Expression, CRISPR; Bacterial Resistance:Ampicillin

Comments: Transform into an appropriate protein expression E. coli strain like BL21 lambda DE3 to purify Cas9

Plasmid Name: pHO4d-Cas9

Record Creation Time: 20220422T222423+0000

Record Last Update: 20260815T081839+0000

Ratings and Alerts

No rating or validation information has been found for pHO4d-Cas9.

No alerts have been found for pHO4d-Cas9.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 10 mentions in open access literature.

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

Woodhouse RM, et al. (2025) A unified framework governing the establishment and maintenance of transgenerational epigenetic inheritance. *Genetics*, 230(4).

He S, et al. (2024) DNA break induces rapid transcription repression mediated by proteasome-dependent RNAPII removal. *Cell reports*, 43(7), 114420.

M??ller MBD, et al. (2023) Mechanisms of readthrough mitigation reveal principles of GCN1-mediated translational quality control. *Cell*, 186(15), 3227.

Zou RS, et al. (2022) Massively parallel genomic perturbations with multi-target CRISPR interrogates Cas9 activity and DNA repair at endogenous sites. *Nature cell biology*, 24(9), 1433.

Zou RS, et al. (2022) Improving the specificity of nucleic acid detection with endonuclease-actuated degradation. *Communications biology*, 5(1), 290.

Woodhouse RM, et al. (2022) Mitochondrial succinate dehydrogenase function is essential for sperm motility and male fertility. *iScience*, 25(12), 105573.

Gavrilov M, et al. (2022) Engineered helicase replaces thermocycler in DNA amplification while retaining desired PCR characteristics. *Nature communications*, 13(1), 6312.

Zou RS, et al. (2021) Cas9 deactivation with photocleavable guide RNAs. *Molecular cell*, 81(7), 1553.

Philip NS, et al. (2019) Mos1 Element-Mediated CRISPR Integration of Transgenes in *Caenorhabditis elegans*. *G3 (Bethesda, Md.)*, 9(8), 2629.

Wang H, et al. (2018) An Efficient Genome Editing Strategy To Generate Putative Null Mutants in *Caenorhabditis elegans* Using CRISPR/Cas9. *G3 (Bethesda, Md.)*, 8(11), 3607.