

Resource Summary Report

Generated by [NIF](#) on Jul 29, 2026

pKCcas9dO

RRID:Addgene_62552

Type: Plasmid

Proper Citation

RRID:Addgene_62552

Plasmid Information

URL: <http://www.addgene.org/62552>

Proper Citation: RRID:Addgene_62552

Insert Name: Scocas9

Organism: artificially synthesized, codon optimized gene from Strep pyogenes

Bacterial Resistance: Apramycin

Defining Citation: [PMID:25739462](#)

Vector Backbone Description: Vector Backbone:pKC1139; Vector Types:Bacterial Expression, CRISPR, Bacterial Genome Editing; Bacterial Resistance:Apramycin

Comments: More information is provided in the supplemental files. Please note that the sequence of the backbone (pKC1139) was obtained via Sanger sequencing and several regions may have discrepancies due to high GC content. These discrepancies have no functional consequences.

Plasmid Name: pKCcas9dO

Record Creation Time: 20220422T222358+0000

Record Last Update: 20260725T074943+0000

Ratings and Alerts

No rating or validation information has been found for pKCcas9dO.

No alerts have been found for pKCcas9dO.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Suzuki Y, et al. (2020) CRISPR/Cas9-mediated genome editing of *Shewanella oneidensis* MR-1 using a broad host-range pBBR1-based plasmid. *The Journal of general and applied microbiology*, 66(1), 41.

Liu H, et al. (2020) Elucidation of the Activation Pathways of ScyA1/ScyR1, an Aco/ArpA-Like System That Regulates the Expression of Nemadectin and Other Secondary Metabolic Biosynthetic Genes. *Frontiers in bioengineering and biotechnology*, 8, 589730.

Li C, et al. (2019) Characterization of a LAL-type regulator NemR in nemadectin biosynthesis and its application for increasing nemadectin production in *Streptomyces cyaneogriseus*. *Science China. Life sciences*, 62(3), 394.

Muth G, et al. (2018) The pSG5-based thermosensitive vector family for genome editing and gene expression in actinomycetes. *Applied microbiology and biotechnology*, 102(21), 9067.