

Resource Summary Report

Generated by [kravitz2](#) on Sep 1, 2026

pCRISPomyces-2

RRID:Addgene_61737

Type: Plasmid

Proper Citation

RRID:Addgene_61737

Plasmid Information

URL: <http://www.addgene.org/61737>

Proper Citation: RRID:Addgene_61737

Insert Name: sSpCas9

Organism: Synthetic

Bacterial Resistance: Apramycin

Defining Citation: [PMID:25458909](https://pubmed.ncbi.nlm.nih.gov/25458909/)

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

Plasmid Name: pCRISPomyces-2

Record Creation Time: 20220422T222354+0000

Record Last Update: 20260902T045840+0000

Ratings and Alerts

No rating or validation information has been found for pCRISPomyces-2.

No alerts have been found for pCRISPomyces-2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 19 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Beaton ADM, et al. (2026) MtrAB activates ectoine production and triggers sporulation in response to osmotic stress in *Streptomyces venezuelae*. *Microbiology (Reading, England)*, 172(5).

Lee N, et al. (2025) Regulatory orchestration of FK506 biosynthesis in *Streptomyces tsukubaensis* NRRL 18488 revealed through systematic analysis. *iScience*, 28(6), 112698.

Fluegel LL, et al. (2024) Development of platensimycin, platencin, and platensilin overproducers by biosynthetic pathway engineering and fermentation medium optimization. *Journal of industrial microbiology & biotechnology*, 51.

Poudel PB, et al. (2024) Genome Mining and Genetic Manipulation Reveal New Isofuranonaphthoquinones in *Nocardia* Species. *International journal of molecular sciences*, 25(16).

Tan LL, et al. (2024) Application of Cas12j for *Streptomyces* Editing. *Biomolecules*, 14(4).

Tay DWP, et al. (2024) Exploring a general multi-pronged activation strategy for natural product discovery in *Actinomycetes*. *Communications biology*, 7(1), 50.

McLean TC, et al. (2023) Evidence of a role for CutRS and actinorhodin in the secretion stress response in *Streptomyces coelicolor* M145. *Microbiology (Reading, England)*, 169(7).

Racharaks R, et al. (2021) Development of CRISPR-Cas9 knock-in tools for free fatty acid production using the fast-growing cyanobacterial strain *Synechococcus elongatus* UTEX 2973. *Journal of microbiological methods*, 189, 106315.

Calvelo VY, et al. (2021) The ARC2 response in *Streptomyces coelicolor* requires the global regulatory genes *afsR* and *afsS*. *Microbiology (Reading, England)*, 167(5).

Huang JK, et al. (2020) Knockout of secondary alcohol dehydrogenase in *Nocardia cholesterolicum* NRRL 5767 by CRISPR/Cas9 genome editing technology. *PloS one*, 15(3), e0230915.

Wang X, et al. (2020) CRISPR/Cas9 genome editing shows the important role of *AZC_2928* gene in nitrogen-fixing bacteria of plants. *Functional & integrative genomics*, 20(5), 657.

Jeon CW, et al. (2019) Valinomycin, produced by *Streptomyces* sp. S8, a key antifungal metabolite in large patch disease suppressiveness. *World journal of microbiology & biotechnology*, 35(8), 128.

Braesel J, et al. (2019) Diazaquinomycin Biosynthetic Gene Clusters from Marine and Freshwater *Actinomycetes*. *Journal of natural products*, 82(4), 937.

Alberti F, et al. (2019) Triggering the expression of a silent gene cluster from genetically intractable bacteria results in scleric acid discovery. *Chemical science*, 10(2), 453.

Yeo WL, et al. (2019) Characterization of Cas proteins for CRISPR-Cas editing in streptomycetes. *Biotechnology and bioengineering*, 116(9), 2330.

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.

Rütering M, et al. (2017) Tailor-made exopolysaccharides-CRISPR-Cas9 mediated genome editing in *Paenibacillus polymyxa*. *Synthetic biology (Oxford, England)*, 2(1), ysx007.

Wu C, et al. (2016) Leucanicidin and Endophenazines Result from Methyl-Rhamnosylation by the Same Tailoring Enzymes in *Kitasatospora* sp. MBT66. *ACS chemical biology*, 11(2), 478.

Wolf T, et al. (2016) Targeted genome editing in the rare actinomycete *Actinoplanes* sp. SE50/110 by using the CRISPR/Cas9 System. *Journal of biotechnology*, 231, 122.