

Resource Summary Report

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

pTargetF

RRID:Addgene_62226

Type: Plasmid

Proper Citation

RRID:Addgene_62226

Plasmid Information

URL: <http://www.addgene.org/62226>

Proper Citation: RRID:Addgene_62226

Insert Name: sgRNA

Organism: Synthetic

Bacterial Resistance: Spectinomycin

Defining Citation: [PMID:25636838](#)

Vector Backbone Description: Backbone Size:2000; Vector Backbone:Trc99a; Vector Types:Bacterial Expression, CRISPR; Bacterial Resistance:Spectinomycin

Plasmid Name: pTargetF

Record Creation Time: 20220422T222356+0000

Record Last Update: 20260815T081751+0000

Ratings and Alerts

No rating or validation information has been found for pTargetF.

No alerts have been found for pTargetF.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 72 mentions in open access literature.

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

Perez-Morales G, et al. (2026) Enhancing the heat tolerance of homolactic *Escherichia coli* through reverse metabolic engineering. *Applied microbiology and biotechnology*, 110(1), 26.

Palur DSK, et al. (2025) Activating the d-Tagatose Production Capacity of *Escherichia coli* with Structural Insights into C4 Epimerase Specificity. *Journal of agricultural and food chemistry*, 73(10), 6124.

Li S, et al. (2025) Synthetic microbial co-cultures for modular bioelectronic sensing in diverse environments. *bioRxiv : the preprint server for biology*.

Wang K, et al. (2025) Evolutionary selection of trimethoprim-resistant *dfrA* genes in lytic phages affects phage and host fitness during infection. *Science advances*, 11(39), eadt4817.

Zhang Y, et al. (2025) Pamoic acid and carbenoxolone specifically inhibit CRISPR/Cas9 in bacteria, mammalian cells, and mice in a DNA topology-specific manner. *Genome biology*, 26(1), 75.

Lu L, et al. (2025) Engineered Outer Membrane Vesicles for Antigen Delivery: Exploratory Study on Adjuvant Activity and Systemic Reactogenicity. *Vaccines*, 13(6).

Zhu S, et al. (2024) The inactivation of *tolC* sensitizes *Escherichia coli* to perturbations in lipopolysaccharide transport. *iScience*, 27(5), 109592.

Wang X, et al. (2024) CRISPR/Cpf1-FOKI-induced gene editing in *Gluconobacter oxydans*. *Synthetic and systems biotechnology*, 9(2), 369.

Rill A, et al. (2024) Genetic toolbox for *Phototaxillum* and *Xenorhabdus*: pSEVA based heterologous expression systems and CRISPR/Cpf1 based genome editing for rapid natural product profiling. *Microbial cell factories*, 23(1), 98.

Ferreira S, et al. (2024) Computer-aided design and implementation of efficient biosynthetic pathways to produce high added-value products derived from tyrosine in *Escherichia coli*. *Frontiers in bioengineering and biotechnology*, 12, 1360740.

Ninyio N, et al. (2024) Stable expression of HIV-1 MPER extended epitope on the surface of the recombinant probiotic bacteria *Escherichia coli* Nissle 1917 using CRISPR/Cas9. *Microbial cell factories*, 23(1), 39.

Gao Y, et al. (2024) Modular assembly of an artificially concise biocatalytic cascade for the manufacture of phenethylisoquinoline alkaloids. *Nature communications*, 15(1), 30.

Lee MS, et al. (2024) Cell-Free Protein Expression in Polymer Materials. *ACS synthetic biology*, 13(4), 1152.

Hong SY, et al. (2023) Screening of Anti-Adhesion Agents for Pathogenic *Escherichia coli* O157:H7 by Targeting the *GrlA* Activator. *Journal of microbiology and biotechnology*,

33(3), 329.

Zhang K, et al. (2023) Characterization and Application of the Sugar Transporter Zmo0293 from *Zymomonas mobilis*. *International journal of molecular sciences*, 24(6).

Burian J, et al. (2023) High-throughput retrieval of target sequences from complex clone libraries using CRISPRi. *Nature biotechnology*, 41(5), 626.

Bhat S, et al. (2023) AraC-Based Biosensor for the Detection of Isoprene in *E. coli*. *ACS omega*, 8(30), 26806.

Wang T, et al. (2023) Spatial transcriptome uncovers rich coordination of metabolism in *E. coli* K12 biofilm. *Nature chemical biology*, 19(8), 940.

Liu Y, et al. (2023) Preparation of a *Klebsiella pneumoniae* conjugate nanovaccine using glycol-engineered *Escherichia coli*. *Microbial cell factories*, 22(1), 95.

Figueredo EF, et al. (2023) The key role of indole-3-acetic acid biosynthesis by *Bacillus thuringiensis* RZ2MS9 in promoting maize growth revealed by the *ipdC* gene knockout mediated by the CRISPR-Cas9 system. *Microbiological research*, 266, 127218.