

Resource Summary Report

Generated by [RRID](#) on Aug 24, 2026

pHelper_ShCAST_sgRNA

RRID:Addgene_127921

Type: Plasmid

Proper Citation

RRID:Addgene_127921

Plasmid Information

URL: <http://www.addgene.org/127921>

Proper Citation: RRID:Addgene_127921

Insert Name: ShTnsB, ShTnsC, ShTniQ, ShCas12k, sgRNA scaffold for guide cloning (Lgul sites)

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:31171706](#)

Vector Backbone Description: Vector Backbone:pUC19; Vector Types:; Bacterial Resistance:Ampicillin

Plasmid Name: pHelper_ShCAST_sgRNA

Record Creation Time: 20220422T221711+0000

Record Last Update: 20260815T080441+0000

Ratings and Alerts

No rating or validation information has been found for pHelper_ShCAST_sgRNA.

No alerts have been found for pHelper_ShCAST_sgRNA.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Park SG, et al. (2025) Comprehensive profiling of activity and specificity of RNA-guided transposons reveals opportunities to engineer improved variants. *Nucleic acids research*, 53(18).

Yap ZL, et al. (2024) A CRISPR-Cas-associated transposon system for genome editing in *Burkholderia cepacia* complex species. *Applied and environmental microbiology*, 90(7), e0069924.

Park JU, et al. (2023) Structures of the holo CRISPR RNA-guided transposon integration complex. *Nature*, 613(7945), 775.

Rubin BE, et al. (2022) Species- and site-specific genome editing in complex bacterial communities. *Nature microbiology*, 7(1), 34.

Cui Y, et al. (2022) A versatile Cas12k-based genetic engineering toolkit (C12KGET) for metabolic engineering in genetic manipulation-deprived strains. *Nucleic acids research*, 50(15), 8961.

Schmitz M, et al. (2022) Structural basis for the assembly of the type V CRISPR-associated transposon complex. *Cell*, 185(26), 4999.

Yang S, et al. (2021) Orthogonal CRISPR-associated transposases for parallel and multiplexed chromosomal integration. *Nucleic acids research*, 49(17), 10192.

Querques I, et al. (2021) Target site selection and remodelling by type V CRISPR-transposon systems. *Nature*, 599(7885), 497.

Zhang Y, et al. (2020) Multicopy Chromosomal Integration Using CRISPR-Associated Transposases. *ACS synthetic biology*, 9(8), 1998.