

Resource Summary Report

Generated by [nidm-terms](#) on Aug 9, 2026

pDonor_ShCAST_kanR

RRID:Addgene_127924

Type: Plasmid

Proper Citation

RRID:Addgene_127924

Plasmid Information

URL: <http://www.addgene.org/127924>

Proper Citation: RRID:Addgene_127924

Insert Name: KanR, R6K origin of replication

Bacterial Resistance: Kanamycin

Defining Citation: [PMID:31171706](#)

Vector Backbone Description: Vector Backbone:pUC19, R6K origin of replication;
Vector Types:; Bacterial Resistance:Kanamycin

Plasmid Name: pDonor_ShCAST_kanR

Record Creation Time: 20220422T221711+0000

Record Last Update: 20260808T080717+0000

Ratings and Alerts

No rating or validation information has been found for pDonor_ShCAST_kanR.

No alerts have been found for pDonor_ShCAST_kanR.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

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.

Faure G, et al. (2023) Modularity and diversity of target selectors in Tn7 transposons. *Molecular cell*, 83(12), 2122.

Wang S, et al. (2023) Molecular mechanism for Tn7-like transposon recruitment by a type I-B CRISPR effector. *Cell*, 186(19), 4204.

Tenjo-Castaño F, et al. (2022) Structure of the TnsB transposase-DNA complex of type V-K CRISPR-associated transposon. *Nature communications*, 13(1), 5792.

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.

Park JU, et al. (2022) Mechanistic details of CRISPR-associated transposon recruitment and integration revealed by cryo-EM. *Proceedings of the National Academy of Sciences of the United States of America*, 119(32), e2202590119.

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

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

Saito M, et al. (2021) Dual modes of CRISPR-associated transposon homing. *Cell*, 184(9), 2441.

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

Xiao R, et al. (2021) Structural basis of target DNA recognition by CRISPR-Cas12k for RNA-guided DNA transposition. *Molecular cell*, 81(21), 4457.

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