Resource Summary Report

Generated by NIF on Aug 16, 2026

pOpen-lambda red operon

RRID:Addgene_165521
Type: Plasmid

Proper Citation

RRID:Addgene_165521

Plasmid Information

URL: http://www.addgene.org/165521

Proper Citation: RRID:Addgene_165521

Insert Name: lambda red operon

Organism: Other

Bacterial Resistance: Ampicillin

Vector Backbone Description: Vector Backbone:pBuild; Vector Types:Synthetic Biology; Bacterial Resistance:Ampicillin

Comments: Operon containing Exo, Bet, and Gam. To use the lambda red recombineering system to modify your target DNA (including E. coli genome), electroporate a linear donor DNA substrate (either dsDNA or ssDNA) into E. coli expressing the lambda red enzymes. These enzymes then catalyze the homologous recombination of the substrate with the target DNA sequence (mutagenesis occurs in vivo). ~50 nucleotides of homology are required to the target site for recombination. The plasmids in the Open Enzyme collection contain genetic parts and are not functional by themselves. Researchers can clone these enzymes into an expression vector of their choice and then transform into E. coli bacteria for expression and purification. Additional information can be found at https://www.addgene.org/depositor-collections/open-enzyme/.

Plasmid Name: pOpen-lambda red operon

Record Creation Time: 20220422T221934+0000

Record Last Update: 20260815T080929+0000

Ratings and Alerts

No rating or validation information has been found for pOpen-lambda red operon.

No alerts have been found for pOpen-lambda red operon.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We have not found any literature mentions for this resource.