

Resource Summary Report

Generated by [NIF](#) on Aug 16, 2026

pOpen-K12polLF

RRID:Addgene_165511

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/165511>

Proper Citation: RRID:Addgene_165511

Insert Name: DNA Polymerase I, Large (Klenow) Fragment

Organism: Other

Bacterial Resistance: Ampicillin

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

Comments: DNA polymerase fragment that retains 5'-3' polymerase activity and 3'-5' exonuclease activity for removal of precoding nucleotides and proofreading, but loses 5'-3' exonuclease activity. Usable for synthesis of double-stranded DNA from single-stranded templates, filling in of receded 3' ends of DNA fragments to make 5' overhang blunt, digesting away protruding 3' overhangs, preparation of radioactive DNA probes. 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-K12polLF

Record Creation Time: 20220422T221934+0000

Record Last Update: 20260815T080929+0000

Ratings and Alerts

No rating or validation information has been found for pOpen-K12polLF.

No alerts have been found for pOpen-K12polLF.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.