

Resource Summary Report

Generated by [RRID](#) on Aug 25, 2026

pOpen-BstpolLF

RRID:Addgene_165553

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/165553>

Proper Citation: RRID:Addgene_165553

Insert Name: Bst DNA Polymerase, Large Fragment

Organism: Other

Bacterial Resistance: Ampicillin

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

Comments: Fragment retains 5'-3' polymerase activity from full length Bst DNA Polymerase, while lacking 5'-3' exonuclease activity. Suitable for applications requiring thermophilic strand displacement. Additionally used for Loop-Mediated Isothermal Amplification (LAMP), DNA sequencing through high GC regions, rapid sequencing from nanogram amounts of DNA template. Can be used in the standard Sanger one step or two step protocol which separates the labelling reaction from the elongation termination reaction. The enzyme can be used in double stranded sequencing. 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-BstpolLF

Record Creation Time: 20220422T221934+0000

Record Last Update: 20260815T080930+0000

Ratings and Alerts

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

No alerts have been found for pOpen-BstpolLF.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.