

Resource Summary Report

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

pOpen-GBDpol

RRID:Addgene_165501

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/165501>

Proper Citation: RRID:Addgene_165501

Insert Name: Pyrococcus Sp. Heat-Stable DNA Polymerase

Organism: Other

Bacterial Resistance: Ampicillin

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

Comments: Robust and extremely thermostable polymerase with a half-life of 23 hours at 95 degrees C; offers 5x higher fidelity than Taq and robust performance. Ideal for GC-rich or looped sequences. Comparable to Deep Vent at NEB. 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-GBDpol

Record Creation Time: 20220422T221934+0000

Record Last Update: 20260815T080929+0000

Ratings and Alerts

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

No alerts have been found for pOpen-GBDpol.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.