

Resource Summary Report

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

[pOpen-dbh](#)

RRID:Addgene_165513

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/165513>

Proper Citation: RRID:Addgene_165513

Insert Name: Sulfolobus DNA Polymerase IV

Organism: Other

Bacterial Resistance: Ampicillin

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

Comments: Thermostable gamma-family lesion-bypass DNA Polymerase that efficiently synthesizes DNA across a variety of DNA template lesions; can be used for DNA repair. Poorly processive and error-prone. Involved in untargeted mutagenesis; copies undamaged DNA at stalled replication forks, which arise in vivo from mismatched or misaligned primer ends. These misaligned primers can be extended by PolIV. Exhibits no 3'-5' exonuclease (proofreading) activity. 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-dbh

Record Creation Time: 20220422T221934+0000

Record Last Update: 20260815T080929+0000

Ratings and Alerts

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

No alerts have been found for pOpen-dbh.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.