

Resource Summary Report

Generated by [NIF](#) on Sep 10, 2026

pOpen-T7gene5

RRID:Addgene_165534

Type: Plasmid

Proper Citation

RRID:Addgene_165534

Plasmid Information

URL: <http://www.addgene.org/165534>

Proper Citation: RRID:Addgene_165534

Insert Name: T7 DNA Polymerase (unmodified)

Organism: Other

Bacterial Resistance: Ampicillin

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

Comments: DNA Polymerase that catalyzes the replication of T7 phage DNA during infection. The protein dimer has two catalytic activities: DNA polymerase activity and strong 3'-5' exonuclease. The high fidelity and rapid extension rate of the enzyme make it particularly useful in copying long stretches of DNA template. 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-T7gene5

Record Creation Time: 20220422T221934+0000

Record Last Update: 20260905T075123+0000

Ratings and Alerts

No rating or validation information has been found for pOpen-T7gene5.

No alerts have been found for pOpen-T7gene5.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.