

Resource Summary Report

Generated by [NIF](#) on Aug 19, 2026

pOpen-T4 PGD

RRID:Addgene_165550

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/165550>

Proper Citation: RRID:Addgene_165550

Insert Name: T4 PGD (T4 Endonuclease V)

Organism: Other

Bacterial Resistance: Ampicillin

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

Comments: T4 pyrimidine DNA glycosylase; bifunctional DNA glycosylase with DNA N-glycosylase and AP lyase activities. The N-glycosylase activity releases cis-syn cyclobutane pyrimidine dimers, including T^AT, T^AC and C^AC, generating an AP site. The AP lyase activity cleaves an AP site via beta-elimination, creating a 1 nucleotide DNA gap with 3'-alpha, beta-unsaturated aldehyde and 5'-phosphate termini. Also known as T4 Endonuclease V. This enzyme in combination with other enzymes from E. coli (UDG, fpg, Endonuclease IV, Endonuclease VIII), Bst-DNA pol and Taq/Tth-DNA Ligase forms the proprietary NEB Enzyme mix preCR. 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-T4 PGD

Record Creation Time: 20220422T221934+0000

Record Last Update: 20260815T080930+0000

Ratings and Alerts

No rating or validation information has been found for pOpen-T4 PGD.

No alerts have been found for pOpen-T4 PGD.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.