

Resource Summary Report

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

[pOpen-Fpg](#)

RRID:Addgene_165541

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/165541>

Proper Citation: RRID:Addgene_165541

Insert Name: Fpg

Organism: Other

Bacterial Resistance: Ampicillin

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

Comments: Used in PreCR mix from NEB, Formamidopyrimidine DNA Glycosylase; Bifunctional DNA glycosylase with DNA N-glycosylase and AP lyase activities; N-glycosylase activity releases damaged purines, including 2,6-diamino-4-hydroxy-5-formamidopyrimidine (FapyG) and 8-oxo-7,8-dihydroguanine (8oxoG), generating an AP site. The AP lyase activity cleaves an AP site, via beta and delta-elimination, creating a 1 nucleotide DNA gap with 5' and 3' phosphate termini. 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-Fpg

Record Creation Time: 20220422T221934+0000

Record Last Update: 20260815T080930+0000

Ratings and Alerts

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

No alerts have been found for pOpen-Fpg.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.