

# Resource Summary Report

Generated by [NIF](#) on Aug 20, 2026

## pOpen-Endonuclease IV E. coli

RRID:Addgene\_165551

Type: Plasmid

### Proper Citation

RRID:Addgene\_165551

### Plasmid Information

**URL:** <http://www.addgene.org/165551>

**Proper Citation:** RRID:Addgene\_165551

**Insert Name:** Endonuclease IV E. coli

**Organism:** Other

**Bacterial Resistance:** Ampicillin

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

**Comments:** Used in the preCR mix from NEB; DNA AP endonuclease; Catalyzes the cleavage of DNA phosphodiester backbone at AP sites via hydrolysis leaving a 1 nucleotide gap with 3'-hydroxyl and 5' deoxyribose phosphate (dRP) termini; Also has 3'-diesterase activity which can remove 3' phosphate, 3'-alpha, beta-unsaturated aldehyde, phosphoglycoaldehyde, and other 3' blocking groups. 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-Endonuclease IV E. coli

**Record Creation Time:** 20220422T221934+0000

**Record Last Update:** 20260815T080930+0000

### Ratings and Alerts

No rating or validation information has been found for pOpen-Endonuclease IV E. coli.

No alerts have been found for pOpen-Endonuclease IV E. coli.

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## Data and Source Information

**Source:** [Addgene](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.