

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 9, 2026

pET21b(+)-ls-PETase

RRID:Addgene_112202

Type: Plasmid

Proper Citation

RRID:Addgene_112202

Plasmid Information

URL: <http://www.addgene.org/112202>

Proper Citation: RRID:Addgene_112202

Insert Name: PETase gene from Ideonella sakaiensis 201-F6, codon optimized for expression in E. coli K12

Organism: Ideonella sakaiensis

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29666242](#)

Vector Backbone Description: Backbone Marker:Novagen/Millipore Sigma; Backbone Size:5367; Vector Backbone:pET-21b(+); Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pET21b(+)-ls-PETase

Record Creation Time: 20220422T221546+0000

Record Last Update: 20260808T080446+0000

Ratings and Alerts

No rating or validation information has been found for pET21b(+)-ls-PETase.

No alerts have been found for pET21b(+)-ls-PETase.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 4 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Jiraskova K, et al. (2025) Toward reproducible PETase research: A standardized workflow for reliable enzyme production and comparison. Protein expression and purification, 236, 106801.

Norton-Baker B, et al. (2024) Enabling high-throughput enzyme discovery and engineering with a low-cost, robot-assisted pipeline. Scientific reports, 14(1), 14449.

Zhang Y, et al. (2024) Measuring PETase enzyme kinetics by single-molecule microscopy. bioRxiv : the preprint server for biology.

Rennison A, et al. (2021) Rational Protein Engineering to Increase the Activity and Stability of IsPETase Using the PROSS Algorithm. Polymers, 13(22).