

Resource Summary Report

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

pLM494

RRID:Addgene_100539

Type: Plasmid

Proper Citation

RRID:Addgene_100539

Plasmid Information

URL: <http://www.addgene.org/100539>

Proper Citation: RRID:Addgene_100539

Insert Name: GGPP synthase

Organism: X. dendrorhous

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:29789561](#)

Vector Backbone Description: Backbone Size:4846; Vector Backbone:pLM304; Vector Types:Yeast Expression, Cre/Lox, Synthetic Biology; Bacterial Resistance:Ampicillin

Comments: Addgene NGS sequencing found the following mutations compared to the provided reference sequence: crtE with M176I, K346R, I347M, E353D mutations, crtI with L107F, H427Q mutations, and crtYB with A190T, E307K mutations. tHMG1 contains only residues 531-1054 compared to the NCBI reference seq [M22002.1]. These mutations/truncation do not affect plasmid function.

Plasmid Name: pLM494

Record Creation Time: 20220422T221448+0000

Record Last Update: 20260919T090355+0000

Ratings and Alerts

No rating or validation information has been found for pLM494.

No alerts have been found for pLM494.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

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

Tan LYH, et al. (2026) Dual-channel optogenetics in yeast for multiplexed light-based control of cellular processes and pathways. Nature communications, 17(1).

Cautereels C, et al. (2024) Combinatorial optimization of gene expression through recombinase-mediated promoter and terminator shuffling in yeast. Nature communications, 15(1), 1112.

Zimmermann A, et al. (2023) A Cas3-base editing tool for targetable in vivo mutagenesis. Nature communications, 14(1), 3389.

Son SH, et al. (2022) Metabolite trafficking enables membrane-impermeable-terpene secretion by yeast. Nature communications, 13(1), 2605.

Durmusoglu D, et al. (2021) In Situ Biomanufacturing of Small Molecules in the Mammalian Gut by Probiotic *Saccharomyces boulardii*. ACS synthetic biology, 10(5), 1039.