

Resource Summary Report

Generated by [SPARC SAWG](#) on Aug 10, 2026

pALOD4

RRID:Addgene_111026

Type: Plasmid

Proper Citation

RRID:Addgene_111026

Plasmid Information

URL: <http://www.addgene.org/111026>

Proper Citation: RRID:Addgene_111026

Insert Name: Domain 4 of Anthrolysin O

Organism: Bacillus Anthracis

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:25809258](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:2887; Vector Backbone:pRSET-B; Vector Types:Bacterial Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pALOD4

Relevant Mutation: Mutations: S404C, C472A

Record Creation Time: 20220422T221540+0000

Record Last Update: 20260808T080434+0000

Ratings and Alerts

No rating or validation information has been found for pALOD4.

No alerts have been found for pALOD4.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Huang J, et al. (2026) A CRISPR activation screen identifies CH25H as a restriction factor against influenza viruses by targeting accessible cholesterol. *Emerging microbes & infections*, 15(1), 2651464.

Hong SG, et al. (2024) Mechanosensitive membrane domains regulate calcium entry in arterial endothelial cells to protect against inflammation. *The Journal of clinical investigation*, 134(13).

Xiao X, et al. (2023) Hepatic nonvesicular cholesterol transport is critical for systemic lipid homeostasis. *Nature metabolism*, 5(1), 165.

Chen FW, et al. (2022) Activation of mitochondrial TRAP1 stimulates mitochondria-lysosome crosstalk and correction of lysosomal dysfunction. *iScience*, 25(9), 104941.

Navia-Pelaez JM, et al. (2021) Normalization of cholesterol metabolism in spinal microglia alleviates neuropathic pain. *The Journal of experimental medicine*, 218(7).

Johnson KA, et al. (2021) The use of anthrolysin O and ostreolysin A to study cholesterol in cell membranes. *Methods in enzymology*, 649, 543.

Wang S, et al. (2020) Cholesterol 25-Hydroxylase inhibits SARS-CoV-2 and other coronaviruses by depleting membrane cholesterol. *The EMBO journal*, 39(21), e106057.