

Resource Summary Report

Generated by [NIF](#) on Aug 19, 2026

pGEN-luxCDABE

RRID:Addgene_44918

Type: Plasmid

Proper Citation

RRID:Addgene_44918

Plasmid Information

URL: <http://www.addgene.org/44918>

Proper Citation: RRID:Addgene_44918

Insert Name: sigma 70 promoter

Organism: synthetic construct

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:17925449](#)

Vector Backbone Description: Backbone Marker:M. Chelsea Lane; Backbone Size:11000; Vector Backbone:pGENlux; Vector Types:Luciferase; Bacterial Resistance:Ampicillin

Comments: original source is pGEN222

Plasmid Name: pGEN-luxCDABE

Record Creation Time: 20220422T222231+0000

Record Last Update: 20260815T081519+0000

Ratings and Alerts

No rating or validation information has been found for pGEN-luxCDABE.

No alerts have been found for pGEN-luxCDABE.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 15 mentions in open access literature.

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

Zhang Y, et al. (2026) Engineered probiotics recruit CAR macrophages and establish immune memory to eradicate heterogeneous glioblastoma in mice. *Cell host & microbe*, 34(2), 212.

Han M, et al. (2026) Attenuated Salmonella secreting interleukin-21 activates T-cells and induces anti-tumor effects. *Acta pharmaceutica Sinica. B*, 16(1), 239.

Sayin S, et al. (2026) Bacterial population dynamics during colonization of solid tumors. *Molecular systems biology*, 22(3), 412.

Li Q, et al. (2025) Unraveling almonds deterioration using whole-cell biosensor coupled with machine learning approaches and SHAP interpretation. *Food chemistry*, 484, 144392.

Kim E, et al. (2025) Tumour-specific delivery of α -conotoxin MVIIA via engineered Salmonella for safe anticancer therapy. *Journal of advanced research*.

Chen Z, et al. (2025) Design and pharmacodynamic study of live biotherapeutic products with efficient degradation of branched-chain amino acids. *Bioengineering & translational medicine*, 10(6), e70075.

Meogrossi G, et al. (2024) Antibacterial and Anti-Inflammatory Activity of Branched Peptides Derived from Natural Host Defense Sequences. *Journal of medicinal chemistry*, 67(18), 16145.

Ma J, et al. (2023) Accurate and non-destructive monitoring of mold contamination in foodstuffs based on whole-cell biosensor array coupling with machine-learning prediction models. *Journal of hazardous materials*, 449, 131030.

Kung YJ, et al. (2022) Localization of Salmonella and albumin-IL-2 to the tumor microenvironment augments anticancer T cell immunity. *Journal of biomedical science*, 29(1), 57.

Zhou J, et al. (2022) Programmable probiotics modulate inflammation and gut microbiota for inflammatory bowel disease treatment after effective oral delivery. *Nature communications*, 13(1), 3432.

Seman BG, et al. (2020) Elevated Levels of Interleukin-27 in Early Life Compromise Protective Immunity in a Mouse Model of Gram-Negative Neonatal Sepsis. *Infection and immunity*, 88(3).

Bosio CF, et al. (2020) Comparison of the transmission efficiency and plague progression dynamics associated with two mechanisms by which fleas transmit *Yersinia pestis*. *PLoS pathogens*, 16(12), e1009092.

Vargason AM, et al. (2020) Surface Modifications for Improved Delivery and Function of Therapeutic Bacteria. *Small (Weinheim an der Bergstrasse, Germany)*, 16(25), e2001705.

Qiu K, et al. (2020) Polymeric Films for the Encapsulation, Storage, and Tunable Release of Therapeutic Microbes. *Advanced healthcare materials*, 9(6), e1901643.

Pérez-Morales D, et al. (2017) The transcriptional regulator SsrB is involved in a molecular switch controlling virulence lifestyles of Salmonella. *PLoS pathogens*, 13(7), e1006497.