

Resource Summary Report

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

pHIV-Luciferase

RRID:Addgene_21375

Type: Plasmid

Proper Citation

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Plasmid Information

URL: <http://www.addgene.org/21375>

Proper Citation: RRID:Addgene_21375

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Size:8713; Vector Backbone:pSICO; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: The HIV-Luciferase plasmid encodes a self-inactivating lentiviral construct that was cloned by removing the U6-TATAlox-CMVie-EGFP-TATAlox- WPRE content of pSICO (Ventura et al., 2004), and adding the EF1-alpha promoter, a multiple cloning site (MCS), an internal ribosome entry site (IRES) and Luciferase. A cDNA can be cloned into the MCS (NotI, EcoRI, SmaI, and BamHI sites) to enable bicistronic expression with luciferase. This construct has not been published. NOTE: Addgene's stock is missing bp 6102-6190 compared to the original depositor's sequence. This deletion may affect some restriction sites, but not plasmid function.

Plasmid Name: pHIV-Luciferase

Record Creation Time: 20220422T222055+0000

Record Last Update: 20260808T081409+0000

Ratings and Alerts

No rating or validation information has been found for pHIV-Luciferase.

No alerts have been found for pHIV-Luciferase.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 32 mentions in open access literature.

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

Fan L, et al. (2026) Molecular characterization of Ebola virus glycoprotein V75A substitution in the 2018-2020 epidemic. *Cell*, 189(3), 818.

AlHilli MM, et al. (2025) The effects of dietary fat on gut microbial composition and function in a mouse model of ovarian cancer. *Journal of ovarian research*, 18(1), 174.

Nie H, et al. (2025) Implant Renal Injury-Responsive Cells to Supplement Erythropoietin and Protect Kidney Injury. *MedComm*, 6(11), e70438.

AlHilli MM, et al. (2025) The effects of dietary fat on gut microbial composition and function in ovarian cancer. *Research square*.

Raymant M, et al. (2024) Macrophage-fibroblast JAK/STAT dependent crosstalk promotes liver metastatic outgrowth in pancreatic cancer. *Nature communications*, 15(1), 3593.

Schneegans S, et al. (2024) HERC5 downregulation in non-small cell lung cancer is associated with altered energy metabolism and metastasis. *Journal of experimental & clinical cancer research : CR*, 43(1), 110.

Mulkearns-Hubert EE, et al. (2024) Targeting NANOG and FAK via Cx26-derived Cell-penetrating Peptides in Triple-negative Breast Cancer. *Molecular cancer therapeutics*, 23(1), 56.

Yu F, et al. (2024) The histamine receptor H1 acts as an alternative receptor for SARS-CoV-2. *mBio*, 15(8), e0108824.

AlHilli MM, et al. (2023) Unrestricted Ketogenic Diet Feeding Enhances Epithelial Ovarian Cancer Growth In Vivo. *Nutrients*, 15(12).

Moon J, et al. (2023) Production and characterization of lentivirus vector-based SARS-CoV-2 pseudoviruses with dual reporters: Evaluation of anti-SARS-CoV-2 viral effect of Korean Red Ginseng. *Journal of ginseng research*, 47(1), 123.

Liang T, et al. (2023) Phenothiazines Inhibit SARS-CoV-2 Entry through Targeting Spike Protein. *Viruses*, 15(8).

Slepek TI, et al. (2023) Dual role of the adhesion G-protein coupled receptor ADRGE5/CD97 in glioblastoma invasion and proliferation. *The Journal of biological chemistry*, 299(9), 105105.

Yu F, et al. (2022) Glycopeptide Antibiotic Teicoplanin Inhibits Cell Entry of SARS-CoV-2 by Suppressing the Proteolytic Activity of Cathepsin L. *Frontiers in microbiology*, 13, 884034.

Varghese PM, et al. (2022) Human C1q Regulates Influenza A Virus Infection and Inflammatory Response via Its Globular Domain. *International journal of molecular*

sciences, 23(6).

Yuan Y, et al. (2022) A bivalent nanoparticle vaccine exhibits potent cross-protection against the variants of SARS-CoV-2. *Cell reports*, 38(3), 110256.

Vogel E, et al. (2022) Dynamics of humoral and cellular immune responses after homologous and heterologous SARS-CoV-2 vaccination with ChAdOx1 nCoV-19 and BNT162b2. *EBioMedicine*, 85, 104294.

Varghese PM, et al. (2021) Human Properdin Released By Infiltrating Neutrophils Can Modulate Influenza A Virus Infection. *Frontiers in immunology*, 12, 747654.

Chuang TD, et al. (2021) Functional role of the long noncoding RNA X-inactive specific transcript in leiomyoma pathogenesis. *Fertility and sterility*, 115(1), 238.

Pan T, et al. (2021) Infection of wild-type mice by SARS-CoV-2 B.1.351 variant indicates a possible novel cross-species transmission route. *Signal transduction and targeted therapy*, 6(1), 420.

Chambers LM, et al. (2020) Use of Transabdominal Ultrasound for the detection of intra-peritoneal tumor engraftment and growth in mouse xenografts of epithelial ovarian cancer. *PloS one*, 15(4), e0228511.