

Resource Summary Report

Generated by [RRID](#) on Aug 17, 2026

pLVX-EF1alpha-SARS-CoV-2-N-2xStrep-IRES-Puro

RRID:Addgene_141391

Type: Plasmid

Proper Citation

RRID:Addgene_141391

Plasmid Information

URL: <http://www.addgene.org/141391>

Proper Citation: RRID:Addgene_141391

Insert Name: SARS-CoV-2-N

Organism: SARS-CoV-2

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:32353859](#)

Vector Backbone Description: Backbone Marker:Takara Bio; Backbone Size:8825; Vector Backbone:pLVX-EF1alpha-IRES-Puro; Vector Types:Mammalian Expression, Lentiviral; Bacterial Resistance:Ampicillin

Comments: Please visit <https://www.biorxiv.org/content/10.1101/2020.03.22.002386v3> for bioRxiv preprint.

Plasmid Name: pLVX-EF1alpha-SARS-CoV-2-N-2xStrep-IRES-Puro

Relevant Mutation: human codon optimized

Record Creation Time: 20220422T221815+0000

Record Last Update: 20260815T080648+0000

Ratings and Alerts

No rating or validation information has been found for pLVX-EF1alpha-SARS-CoV-2-N-2xStrep-IRES-Puro.

No alerts have been found for pLVX-EF1alpha-SARS-CoV-2-N-2xStrep-IRES-Puro.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 27 mentions in open access literature.

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

Wang L, et al. (2026) Direct interaction between human DDX1 and SARS-CoV-2 nucleocapsid protein is regulated by phosphorylation. The Journal of biological chemistry, 302(5), 111408.

Zhao H, et al. (2025) Evolution of a fuzzy ribonucleoprotein complex in viral assembly. eLife, 14.

Nuccetelli V, et al. (2025) The SARS-CoV-2 nucleocapsid protein interferes with the full enzymatic activation of UPF1 and its interaction with UPF2. Nucleic acids research, 53(2).

Zhao H, et al. (2025) Evolution of a fuzzy ribonucleoprotein complex in viral assembly. bioRxiv : the preprint server for biology.

Wang X, et al. (2025) SARS-CoV-2 N protein exerts antitumor effects in NSCLC by inducing DNA damage and augmenting chemotherapeutic sensitivity. Medical oncology (Northwood, London, England), 42(7), 230.

Broderick K, et al. (2025) Human protein interaction networks of ancestral and variant SARS-CoV-2 in organ-specific cells and bodily fluids. Nature communications, 16(1), 5784.

Dumelie JG, et al. (2024) Biomolecular condensates create phospholipid-enriched microenvironments. Nature chemical biology, 20(3), 302.

Mumford TR, et al. (2024) Simple visualization of submicroscopic protein clusters with a phase-separation-based fluorescent reporter. Cell systems, 15(2), 166.

Damour A, et al. (2024) The Equal Neutralizing Effectiveness of BNT162b2, ChAdOx1 nCoV-19, and Sputnik V Vaccines in the Palestinian Population. Vaccines, 12(5).

Laprise F, et al. (2024) SARS-CoV-2 Accessory Protein ORF8 Targets the Dimeric IgA Receptor pIgR. Viruses, 16(7).

Braun A, et al. (2024) Mapping the immunopeptidome of seven SARS-CoV-2 antigens across common HLA haplotypes. Nature communications, 15(1), 7547.

Mamatis JE, et al. (2023) Induction of antiviral gene expression by cyclosporine A, but not inhibition of cyclophilin A or B, contributes to its restriction of human coronavirus 229E infection in a lung epithelial cell line. Antiviral research, 219, 105730.

Wu X, et al. (2023) Secreted ORF8 induces monocytic pro-inflammatory cytokines through NLRP3 pathways in patients with severe COVID-19. *iScience*, 26(6), 106929.

Lee JD, et al. (2023) Differences in syncytia formation by SARS-CoV-2 variants modify host chromatin accessibility and cellular senescence via TP53. *Cell reports*, 42(12), 113478.

Lawanprasert A, et al. (2022) Inhalable SARS-CoV-2 Mimetic Particles Induce Pleiotropic Antigen Presentation. *Biomacromolecules*, 23(3), 1158.

Oktelik FB, et al. (2022) Decline of humoral immune responses after natural SARS-CoV-2 infection can be efficiently reversed by vaccination. *Canadian journal of microbiology*, 68(8), 543.

Mourier T, et al. (2022) SARS-CoV-2 genomes from Saudi Arabia implicate nucleocapsid mutations in host response and increased viral load. *Nature communications*, 13(1), 601.

López-Muñoz AD, et al. (2022) Cell surface SARS-CoV-2 nucleocapsid protein modulates innate and adaptive immunity. *Science advances*, 8(31), eabp9770.

Pringle ES, et al. (2022) Thiopurines inhibit coronavirus Spike protein processing and incorporation into progeny virions. *PLoS pathogens*, 18(9), e1010832.

Lee MJ, et al. (2022) SARS-CoV-2 escapes direct NK cell killing through Nsp1-mediated downregulation of ligands for NKG2D. *Cell reports*, 41(13), 111892.