

Resource Summary Report

Generated by [dkNET](#) on Aug 19, 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 [dkNET](#) .

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.

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.

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.

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 plgR. 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.

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.

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