

# Resource Summary Report

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

## pLVX-EF1alpha-SARS-CoV-2-orf8-2xStrep-IRES-Puro

RRID:Addgene\_141390

Type: Plasmid

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### Proper Citation

RRID:Addgene\_141390

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### Plasmid Information

**URL:** <http://www.addgene.org/141390>

**Proper Citation:** RRID:Addgene\_141390

**Insert Name:** SARS-CoV-2-orf8

**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-orf8-2xStrep-IRES-Puro

**Relevant Mutation:** human codon optimized

**Record Creation Time:** 20220422T221815+0000

**Record Last Update:** 20260815T080648+0000

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### Ratings and Alerts

No rating or validation information has been found for pLVX-EF1alpha-SARS-CoV-2-orf8-2xStrep-IRES-Puro.

No alerts have been found for pLVX-EF1alpha-SARS-CoV-2-orf8-2xStrep-IRES-Puro.

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## Data and Source Information

**Source:** [Addgene](#)

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## Usage and Citation Metrics

We found 11 mentions in open access literature.

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

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.

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

Kim IJ, et al. (2023) SARS-CoV-2 protein ORF8 limits expression levels of Spike antigen and facilitates immune evasion of infected host cells. *The Journal of biological chemistry*, 299(8), 104955.

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.

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.

Kee J, et al. (2022) SARS-CoV-2 disrupts host epigenetic regulation via histone mimicry. *Nature*, 610(7931), 381.

Hall R, et al. (2022) SARS-CoV-2 ORF6 disrupts innate immune signalling by inhibiting cellular mRNA export. *PLoS pathogens*, 18(8), e1010349.

Beaudoin-Bussi res G, et al. (2022) SARS-CoV-2 Accessory Protein ORF8 Decreases Antibody-Dependent Cellular Cytotoxicity. *Viruses*, 14(6).

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.

Gupta RK, et al. (2022) Cyclin D3 restricts SARS-CoV-2 envelope incorporation into virions and interferes with viral spread. *The EMBO journal*, 41(22), e111653.

Rauti R, et al. (2021) Effect of SARS-CoV-2 proteins on vascular permeability. *eLife*, 10.