Resource Summary Report

Generated by dkNET on Aug 23, 2026

pRSFDuet-1(nsp8-nsp7)(nsp12)

RRID:Addgene_165451
Type: Plasmid

Proper Citation

RRID:Addgene_165451

Plasmid Information

URL: http://www.addgene.org/165451

Proper Citation: RRID:Addgene_165451

Insert Name: nsp12

Organism: Severe acute respiratory syndrome coronavirus 2

Bacterial Resistance: Kanamycin

Defining Citation: PMID:33914787

Vector Backbone Description: Backbone Marker:Novagen; Backbone Size:3829; Vector Backbone:pRSFDuet-1; Vector Types:Bacterial Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pRSFDuet-1(nsp8-nsp7)(nsp12)

Record Creation Time: 20220422T221933+0000

Record Last Update: 20260815T080929+0000

Ratings and Alerts

No rating or validation information has been found for pRSFDuet-1(nsp8-nsp7)(nsp12).

No alerts have been found for pRSFDuet-1(nsp8-nsp7)(nsp12).

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET .

Kabinger F, et al. (2025) Structural basis of SARS-CoV-2 polymerase inhibition by nonnucleoside inhibitor HeE1-2Tyr. Proceedings of the National Academy of Sciences of the United States of America, 122(10), e2419854122.

Malune P, et al. (2025) Dual-Site Inhibition of SARS-CoV-2 RNA-Dependent RNA Polymerase by Small Molecules Able to Block Viral Replication Identified through a Computer-Aided Drug Discovery Approach. ACS infectious diseases, 11(10), 2821.

Hsu HT, et al. (2025) Polypeptide encoded by the??-1 PRF signal of SARS-CoV-2 controls multiple enzymatic activities of the viral NiRAN domain. NAR molecular medicine, 2(4), ugaf037.

Delgado S, et al. (2024) Incipient functional SARS-CoV-2 diversification identified through neural network haplotype maps. Proceedings of the National Academy of Sciences of the United States of America, 121(10), e2317851121.

Kuzikov M, et al. (2024) Drug repurposing screen to identify inhibitors of the RNA polymerase (nsp12) and helicase (nsp13) from SARS-CoV-2 replication and transcription complex. Virus research, 343, 199356.

Ferrer-Orta C, et al. (2024) Point mutations at specific sites of the nsp12-nsp8 interface dramatically affect the RNA polymerization activity of SARS-CoV-2. Proceedings of the National Academy of Sciences of the United States of America, 121(29), e2317977121.

Ghelichkhani F, et al. (2023) Selenoprotein S Interacts with the Replication and Transcription Complex of SARS-CoV-2 by Binding nsp7. Journal of molecular biology, 435(8), 168008.