

Resource Summary Report

Generated by [dkNET](#) on Aug 22, 2026

pcDNA3.3_SARS2_omicron_BA.1

RRID:Addgene_180375

Type: Plasmid

Proper Citation

RRID:Addgene_180375

Plasmid Information

URL: <http://www.addgene.org/180375>

Proper Citation: RRID:Addgene_180375

Insert Name: Spike (omicron BA.1 variant)

Organism: SARS-CoV-2

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:35857439](#)

Vector Backbone Description: Backbone Size:5500; Vector Backbone:pcDNA3.3;
Vector Types:Mammalian Expression, Lentiviral, Retroviral; Bacterial
Resistance:Ampicillin

Comments: Please visit <https://www.biorxiv.org/content/10.1101/2022.04.11.487879v1> for bioRxiv preprint.

Plasmid Name: pcDNA3.3_SARS2_omicron_BA.1

Relevant Mutation: c terminal D18

Record Creation Time: 20220422T222033+0000

Record Last Update: 20260815T081126+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3.3_SARS2_omicron_BA.1.

No alerts have been found for pcDNA3.3_SARS2_omicron_BA.1.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 9 mentions in open access literature.

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

Choi S, et al. (2026) Fc-mediated antibody functions are associated with disease severity in COVID-19. *Frontiers in immunology*, 17, 1797975.

Gonzales J, et al. (2025) Development of an ultrahigh affinity, trimeric ACE2 biologic as a universal SARS-CoV-2 antagonist. *Communications biology*, 8(1), 1428.

Milewska A, et al. (2025) Evolution of the SARS-CoV-2 spike protein in utilizing host transmembrane serine proteases. *iScience*, 28(9), 113318.

Vařová V, et al. (2025) Long-Term Dynamics of SARS-CoV-2 Variant-Specific Neutralizing Antibodies Following mRNA Vaccination and Infection. *Viruses*, 17(5).

Zúñiga R, et al. (2025) Bromhexine inhibits SARS-CoV-2 Omicron and variant pseudovirus infection via ACE2-targeted mechanisms. *Frontiers in pharmacology*, 16, 1745277.

Connor RI, et al. (2024) Characteristics and Functions of Infection-enhancing Antibodies to the N-terminal Domain of SARS-CoV-2. *Pathogens & immunity*, 9(2), 1.

Dacon C, et al. (2023) Rare, convergent antibodies targeting the stem helix broadly neutralize diverse betacoronaviruses. *Cell host & microbe*, 31(1), 97.

Ahmed N, et al. (2023) microRNA-185 Inhibits SARS-CoV-2 Infection through the Modulation of the Host's Lipid Microenvironment. *Viruses*, 15(9).

Connor RI, et al. (2023) Characteristics and functions of infection-enhancing antibodies to the N-terminal domain of SARS-CoV-2. *bioRxiv : the preprint server for biology*.