

Resource Summary Report

Generated by [RRID](#) on Aug 26, 2026

pcDNA3.1-hACE2

RRID:Addgene_145033

Type: Plasmid

Proper Citation

RRID:Addgene_145033

Plasmid Information

URL: <http://www.addgene.org/145033>

Proper Citation: RRID:Addgene_145033

Insert Name: human ACE2

Organism: Homo sapiens

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:32225175](#)

Vector Backbone Description: Backbone Size:5500; Vector Backbone:pcDNA3.1; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Plasmid Name: pcDNA3.1-hACE2

Record Creation Time: 20220422T221818+0000

Record Last Update: 20260815T080653+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3.1-hACE2.

No alerts have been found for pcDNA3.1-hACE2.

Data and Source Information

Source: [Addgene](#)

Usage and Citation Metrics

We found 31 mentions in open access literature.

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

Batra J, et al. (2026) Coronavirus protein interaction mapping in bat and human cells reveals network rewiring governing immune evasion and zoonotic potential. *Cell host & microbe*, 34(6), 1100.

Kumara D, et al. (2025) Inhibitory Effects of Citrus-Derived Flavonoids Hesperidin and Hesperetin on SARS-CoV-2 Spike-Mediated Syncytia Formation Using In Vitro Cell Model. *Advanced pharmaceutical bulletin*, 15(2), 416.

Song MS, et al. (2025) Tubular ER structures shaped by ER-phagy receptors engage in stress-induced Golgi bypass. *Developmental cell*, 60(11), 1568.

Batra J, et al. (2025) Coronavirus protein interaction mapping in bat and human cells identifies molecular and genetic switches for immune evasion and replication. *bioRxiv : the preprint server for biology*.

D'Acunto E, et al. (2024) Isolation and Characterization of Neutralizing Monoclonal Antibodies from a Large Panel of Murine Antibodies against RBD of the SARS-CoV-2 Spike Protein. *Antibodies (Basel, Switzerland)*, 13(1).

Fumagalli V, et al. (2024) Antibody-independent protection against heterologous SARS-CoV-2 challenge conferred by prior infection or vaccination. *Nature immunology*, 25(4), 633.

Aymoz-Bressot T, et al. (2024) Cell-Int: a cell-cell interaction assay to identify native membrane protein interactions. *Life science alliance*, 7(11).

Manu AA, et al. (2024) Development and utility of a SARS-CoV-2 pseudovirus assay for compound screening and antibody neutralization assays. *Heliyon*, 10(10), e31392.

Baciu DD, et al. (2023) Comparison of truncated human angiotensin-converting enzyme 2 (hACE2) expression in pET28a(+) versus pET-SUMO vector and two *Escherichia coli* strains. *Advances in medical sciences*, 68(1), 61.

Martínez-Mármol R, et al. (2023) SARS-CoV-2 infection and viral fusogens cause neuronal and glial fusion that compromises neuronal activity. *Science advances*, 9(23), eadg2248.

Charles J, et al. (2023) Spike protein receptor-binding domains from SARS-CoV-2 variants of interest bind human ACE2 more tightly than the prototype spike protein. *Biochemical and biophysical research communications*, 641, 61.

Engler M, et al. (2023) ACE2-EGFR-MAPK signaling contributes to SARS-CoV-2 infection. *Life science alliance*, 6(9).

Andreano E, et al. (2023) B cell analyses after SARS-CoV-2 mRNA third vaccination reveals a hybrid immunity like antibody response. *Nature communications*, 14(1), 53.

Vanhulle E, et al. (2022) SARS-CoV-2 Permissive glioblastoma cell line for high throughput antiviral screening. *Antiviral research*, 203, 105342.

Francesconi O, et al. (2022) Synthetic carbohydrate-binding agents neutralize SARS-CoV-2 by inhibiting binding of the spike protein to ACE2. *iScience*, 25(5), 104239.

Villa A, et al. (2022) DNA aptamers masking angiotensin converting enzyme 2 as an innovative way to treat SARS-CoV-2 pandemic. *Pharmacological research*, 175, 105982.

Shah M, et al. (2022) SARS-CoV-2 pan-variant inhibitory peptides deter S1-ACE2 interaction and neutralize delta and omicron pseudoviruses. *Computational and structural biotechnology journal*, 20, 2042.

Barrow K, et al. (2022) H2S protects from oxidative stress-driven ACE2 expression and cardiac aging. *Molecular and cellular biochemistry*, 477(5), 1393.

Brasu N, et al. (2022) Memory CD8+ T cell diversity and B cell responses correlate with protection against SARS-CoV-2 following mRNA vaccination. *Nature immunology*, 23(10), 1445.

Torres JL, et al. (2022) Structural insights of a highly potent pan-neutralizing SARS-CoV-2 human monoclonal antibody. *Proceedings of the National Academy of Sciences of the United States of America*, 119(20), e2120976119.