

Resource Summary Report

Generated by [RRID](#) on Aug 25, 2026

pcDNA3-SARS-CoV-2-S-RBD-Fc

RRID:Addgene_141183

Type: Plasmid

Proper Citation

RRID:Addgene_141183

Plasmid Information

URL: <http://www.addgene.org/141183>

Proper Citation: RRID:Addgene_141183

Insert Name: Secreted receptor binding domain (RBD; a.a. 333-529) of S protein from SARS-CoV-2 fused to Fc of IgG1

Organism: SARS coronavirus 2

Bacterial Resistance: Ampicillin

Defining Citation: [PMID:32753553](#)

Vector Backbone Description: Backbone Marker:Invitrogen; Backbone Size:5335; Vector Backbone:pcDNA3.1(+); Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: Please visit <https://www.biorxiv.org/content/10.1101/2020.03.16.994236v1> for BioRxiv preprint.

Plasmid Name: pcDNA3-SARS-CoV-2-S-RBD-Fc

Record Creation Time: 20220422T221814+0000

Record Last Update: 20260815T080647+0000

Ratings and Alerts

No rating or validation information has been found for pcDNA3-SARS-CoV-2-S-RBD-Fc.

No alerts have been found for pcDNA3-SARS-CoV-2-S-RBD-Fc.

Data and Source Information

Usage and Citation Metrics

We found 13 mentions in open access literature.

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

Wang J, et al. (2026) Redirection of SARS-CoV-2 to phagocytes by intranasal sACE2-Fc as a universal decoy confers complete prophylactic protection. *eLife*, 14.

Pydyn N, et al. (2024) MCP1P1 Inhibits Hepatic Stellate Cell Activation in Autocrine and Paracrine Manners, Preventing Liver Fibrosis. *Cellular and molecular gastroenterology and hepatology*, 17(6), 887.

Obeng EM, et al. (2023) Sortase A transpeptidation produces seamless, unbranched biotinylated nanobodies for multivalent and multifunctional applications. *Nanoscale advances*, 5(8), 2251.

Mani S, et al. (2023) Targeting DPP4-RBD interactions by sitagliptin and linagliptin delivers a potential host-directed therapy against pan-SARS-CoV-2 infections. *International journal of biological macromolecules*, 245, 125444.

Garg S, et al. (2022) Characterization of a broadly cross reactive tetravalent human monoclonal antibody, recognizing conformational epitopes in receptor binding domain of SARS-CoV-2. *3 Biotech*, 12(9), 202.

Murugavelu P, et al. (2021) Non-neutralizing SARS CoV-2 directed polyclonal antibodies demonstrate cross-reactivity with the HA glycans of influenza virus. *International immunopharmacology*, 99, 108020.

Castiglione GM, et al. (2021) Evolutionary pathways to SARS-CoV-2 resistance are opened and closed by epistasis acting on ACE2. *PLoS biology*, 19(12), e3001510.

Vishwakarma P, et al. (2021) Severe Acute Respiratory Syndrome Coronavirus 2 Spike Protein Based Novel Epitopes Induce Potent Immune Responses in vivo and Inhibit Viral Replication in vitro. *Frontiers in immunology*, 12, 613045.

Gowda P, et al. (2021) Glycyrrhizin prevents SARS-CoV-2 S1 and Orf3a induced high mobility group box 1 (HMGB1) release and inhibits viral replication. *Cytokine*, 142, 155496.

Perween R, et al. (2021) The SARS CoV-2 spike directed non-neutralizing polyclonal antibodies cross-react with Human immunodeficiency virus (HIV-1) gp41. *International immunopharmacology*, 101(Pt B), 108187.

Shrivastava T, et al. (2021) Comparative Immunomodulatory Evaluation of the Receptor Binding Domain of the SARS-CoV-2 Spike Protein; a Potential Vaccine Candidate Which Imparts Potent Humoral and Th1 Type Immune Response in a Mouse Model. *Frontiers in immunology*, 12, 641447.

Procko E, et al. (2020) The sequence of human ACE2 is suboptimal for binding the S spike protein of SARS coronavirus 2. bioRxiv : the preprint server for biology.

Parray HA, et al. (2020) Identification of an anti-SARS-CoV-2 receptor-binding domain-directed human monoclonal antibody from a naïve semisynthetic library. The Journal of biological chemistry, 295(36), 12814.