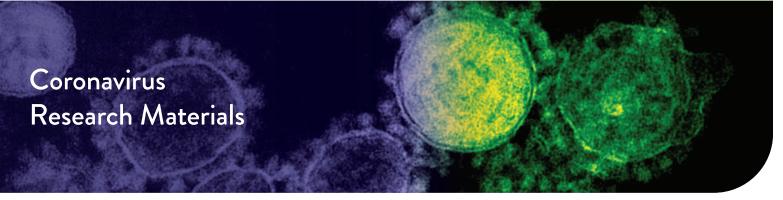
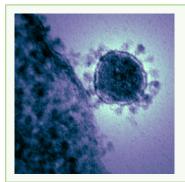


# **Product Spotlight**



## Credible solutions for critical public health emergencies

The outbreak of severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2) has put the health and safety of the global community at risk. With the virus continuing to spread and the number of confirmed cases and deaths rising, the World Health Organization has declared the outbreak a public health emergency of international concern. As in previous public health emergencies such as Zika, SARS, MERS, and the H1N1 2009 pandemic, ATCC stands ready to partner with the dedicated scientists working toward preventing and containing this devastating outbreak.



#### Heat-inactivated SARS-CoV-2

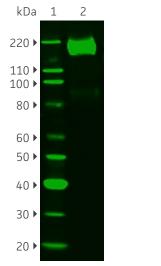
When developing and using a novel detection assay, researchers need access to clinically relevant positive controls to ensure the reliability and accuracy of their results. To meet this need, ATCC has developed heat-inactivated preparations of the 2019-nCoV/USA-WA1/2020 (ATCC<sup>®</sup> VR-1986HK<sup>™</sup>) and USA/CA\_CDC\_5574/2020 (variant B.1.1.7; ATCC<sup>®</sup> VR-3326HK<sup>™</sup>) strains.

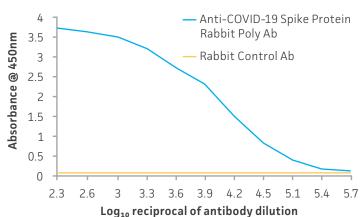
- Confirmed to be inviable and non-replicative
- Quantitated by ddPCR<sup>™</sup>
- Useful for assays that include an extraction step

Order your preparation today at www.atcc.org/Coronavirus

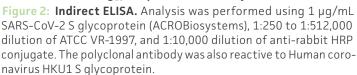
## Polyclonal Anti-SARS-CoV-2 Spike Glycoprotein

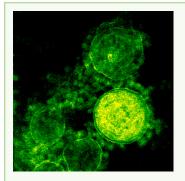
We have developed a rabbit polyclonal antibody prepared against the spike glycoprotein of SARS-CoV-2 strain Wuhan-Hu-1 (ATCC<sup>®</sup> VR-1997<sup>™</sup>). This preparation was ammonium sulfate precipitated from pooled rabbit serum and purified by protein G affinity chromatography. Get yours today at www.atcc.org/SARSAntibody.





**Figure 1: Western blot analysis.** Analysis was performed using 0.5µg SARS-CoV-2 S glycoprotein (ACROBiosystems), 1:15,000 dilution of ATCC VR-1997, and 1:10,000 dilution of anti-rabbit IRDye<sup>®</sup> conjugate (LI-COR Biosciences). Lane 1: MagicMark<sup>™</sup> XP Protein Standard (Thermo Fisher Scientific). Lane 2: SARS-CoV-2 S Glycoprotein.





# Genomic RNA for SARS-CoV-2

Clinically relevant reference materials are an essential component of basic research and diagnostic development. That's why ATCC has made it a priority to provide genomic RNA preparations from strains sourced from infected patients in Washington state (2019-nCoV/USA-WA1/2020), California (Variant B.1.1.7; USA/CA\_CDC\_5574/2020), Hong Kong (2019-nCoV/Hong Kong/VM20001061/2020), Italy (2019-nCoV/Italy-INMI1), and Germany (Germany/ BavPat1/2020).

- Whole-genome sequences available on the ATCC Genome Portal
- Prepared using methods known to inactivate viruses
- Suitable for RT-PCR or other RNA-based assays

Discover more about these reference materials at www.atcc.org/Coronavirus.

# Synthetic Molecular Standards for SARS-CoV-2

The pathogenic nature and transmission dynamics of SARS-CoV-2 has necessitated that the utmost care should be taken when handling the virus. To help ensure the safety of laboratory researchers, ATCC has developed four quantitative synthetic molecular standards for use as controls in the development of assays designed to detect and quantify SARS-CoV-2. Because these standards are synthetically derived, they eliminate the need to culture viruses in the laboratory and they are safe to use under biosafety level 1 conditions. Further, SARS-CoV-2 construct 1 is compatible with the nucleocapsid-targeted real-time RT-PCR primer and probe sets developed by the CDC.



#### **Coronavirus Research Materials**

Having access to a variety of coronavirus strains is essential for establishing the inclusivity and exclusivity of a novel assay. To support this need, ATCC provides viral strains and nucleic acids representing alphacoronaviruses and betacoronaviruses known to cause disease in humans. Explore our complete collection of research materials at www.atcc.org/coronavirus.

ATCC <sup>®</sup> No.	Product Description
Viral strains	
VR-1986HK™	Heat-inactivated 2019 Novel coronavirus strain 2019-nCoV/USA-WA1/2020
VR-3326HK™	Heat-inactivated SARS-CoV-2 variant B.1.1.7
VR-3327HK™	Heat-inactivated SARS-CoV-2 variant B.1.351
VR-3338HK™	Heat-inactivated SARS-CoV-2 variant P.1 – <i>Coming soon!</i>
VR-3339HK™	Heat-inactivated SARS-CoV-2 variant P.2 – <i>Coming soon!</i>
VR-1558™	Betacoronavirus 1 strain OC43
VR-740™	Human coronavirus 229E
Genomic RNA	
VR-1992D™	Genomic RNA from SARS-CoV-2 strain 2019-nCoV/Italy/INMI1
VR-1986D™	Genomic RNA from SARS-CoV-2 strain 2019-nCoV/USA-WA1/2020
VR-1994D™	Genomic RNA from SARS-CoV-2 strain Germany/BavPat1/2020
VR-1991D™	Genomic RNA from SARS-CoV-2 strain Hong Kong/VM20001061/2020
VR-3326D™	Genomic RNA from SARS-CoV-2 strain USA/CA_CDC_5574/2020 (variant B.1.1.7)
VR-3327D™	Genomic RNA from SARS-CoV-2 variant B.1.351 – <i>Coming soon!</i>
VR-3338D™	Genomic RNA from SARS-CoV-2 variant P.1 – <i>Coming soon!</i>
VR-3339D™	Genomic RNA from SARS-CoV-2 variant P.2 – <i>Coming soon!</i>
VR-1558DQ™	Quantitative Genomic RNA from Betacoronavirus 1 OC43
VR-740DQ™	Quantitative Genomic RNA from Human coronavirus 229E
VR-1558D™	RNA from Betacoronavirus 1 OC43
VR-740D™	RNA from Human coronavirus 229E
Synthetic RNA	
VR-3262SD™	Quantitative Synthetic Human coronavirus HKU1 RNA
VR-3263SD™	Quantitative Synthetic Human coronavirus NL63 RNA
VR-3248SD™	Quantitative Synthetic Middle East respiratory syndrome coronavirus (MERS-CoV) RNA
VR-3280SD™	Quantitative Synthetic SARS-CoV [2003] RNA
VR-3278SD™	Quantitative Synthetic SARS-CoV-2 RNA (3' portion of S gene)
VR-3277SD™	Quantitative Synthetic SARS-CoV-2 RNA (5' portion of S gene)
VR-3279SD™	Quantitative Synthetic SARS-CoV-2 RNA (nsp9, nsp12 [RdRp])
VR-3276SD™	Quantitative Synthetic SARS-CoV-2 RNA (portions of ORF 1ab, E, N genes)
Monoclonal antibodies	
VR-3328™	MAb, Anti-SARS-CoV-2 RBD protein-Clone 2TP1B3 – <i>Coming soon!</i>
VR-3329™	MAb, Anti-SARS-CoV-2 RBD protein, Clone 2TP1B11 – <i>Coming soon!</i>
VR-3330™	MAb, Anti-SARS-CoV-2 RBD protein, Clone 2TP1C3 – <i>Coming soon!</i>
VR-3331™	MAb, Anti-SARS-CoV-2 RBD protein, Clone 2TP1D10 – <i>Coming soon!</i>
VR-3332™	MAb, Anti-SARS-CoV-2 RBD protein, Clone 2TP1E6 – <i>Coming soon!</i>
VR-3333™	MAb, Anti-SARS-CoV-2 RBD protein, Clone 2TP1F2 – <i>Coming soon!</i>
VR-3334™	MAb, Anti-SARS-CoV-2 RBD protein, Clone 2TP2C2 – <i>Coming soon!</i>
VR-3335™	MAb, Anti-SARS-CoV-2 RBD protein, Clone 2TP2C7 – <i>Coming soon!</i>
VR-3336™	MAb, Anti-SARS-CoV-2 RBD protein, Clone 2TP2E7 – <i>Coming soon!</i>
VR-3337™	MAb, Anti-SARS-CoV-2 RBD protein, Clone 2TP2F2 – <i>Coming soon!</i>



### Customize your COVID-19 Research

Are you looking to outsource your COVID-19–related assays or materials? Our custom services team can help!

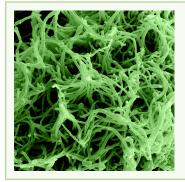
From biobanking and authenticating your precious research materials to developing custom controls and nucleic acids—we have the solutions needed to support every stage of your COVID-19 project.

Contact our custom services team today at go.atcc.org/CustomServices.

## Cell Lines for SARS-CoV-2 Propagation

To develop new vaccines or test antiviral compounds, researchers need access to virus isolates. However, during the outbreak of a novel virus like SARS-CoV-2, it can be challenging to determine which propagation host is ideal for successful viral replication. In a recent study by Harcourt J, *et al.*, it was discovered that SARS-CoV-2 can replicate to a high titer in Vero CCL-81 and Vero E6 cells in the absence of trypsin. These cell lines and the media needed to cultivate them are available at ATCC—explore our collection today.

ATCC <sup>®</sup> No.	Product Description
HTB-37™	Caco-2 [Caco2]
HTB-55™	Calu-3
CCL-244™	HCT-8
CCL-171™	MRC-5
CCL-81™	Vero
CRL-1586™	Vero C1008 [Vero 76, clone E6, Vero E6]
CCL-81-VHG™	Vero.STAT1 KO



#### **Cell Lines for Enhanced Virus Production**

The continual spread of deadly viruses necessitates the development of novel prevention and treatment options. However, the development of a new antiviral vaccine can be challenged by low-yielding manufacturing processes. To address this, ATCC used CRISPR/Cas9 gene-editing technology to develop STAT1 knockout cell lines capable of producing high-titer viral stocks.

Discover how these advanced biological models can be used in your vaccine development research at www.atcc.org/Vaccine.

Explore our coronavirus research materials at www.atcc.org/Coronavirus



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