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NR-52281 SARS-Related Coronavirus 2, Isolate USA-WA1/2020 (Viruses)

Price: All BEI Resources products are provided at no cost to registered researchers.

Description:	Isolate USA-WA1/2020
Organism:	SARS-Related Coronavirus 2
Biosafety Level:	3
Availability Status:	In Stock
Store at:	-60°C or colder
Contributor:	CDC
Comments:	<p>Quantity limit per order for this item is 1. This item can be ordered twice a year. Orders over this limit will be sent to NIAID for approval before shipment.</p> <p>This virus was originally deposited to BEI Resources as 2019 Novel Coronavirus, but subsequently named SARS-CoV-2 by the International Committee on Taxonomy of Viruses (ICTV). Please note that the depositor's original nomenclature was used on the product label.</p> <p>Severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), isolate USA-WA1/2020 was isolated from an oropharyngeal swab from a patient with a respiratory illness who had recently returned from travel to the affected region of China and developed clinical disease (COVID-19) in January 2020 in Washington, USA.</p> <p>Under the nomenclature system introduced by GISAID (Global Initiative on Sharing All Influenza Data), SARS-CoV-2, isolate USA-WA1/2020 is assigned lineage A and GISAID clade S using Phylogenetic Assignment of Named Global Outbreak LINEages (PANGOLIN) tool. The complete genome of SARS-CoV-2, USA-WA1/2020 has been sequenced (the isolate - GenBank: MN985325 and GISAID: EPI_ISL_404895 and after one passage in Vero cells - GenBank: MT020880). The complete genome of SARS-CoV-2, USA-WA1/2020 has been sequenced after four passages in Vero cells in collaboration with Database for Reference Grade Microbial Sequences (FDA-ARGOS; GenBank: MT246667).</p> <p>Each vial contains approximately 0.5 mL of cell lysate and supernatant from <i>Cercopithecus aethiops</i> kidney cells infected with SARS-CoV-2, isolate USA-WA1/2020.</p> <p>Additional information and tools are available at VIPR (Virus Pathogen Resource).</p>

Citations:	Acknowledgment for publications should read "The following reagent was deposited by the Centers for Disease Control and Prevention and obtained through BEI Resources, NIAID, NIH: SARS-Related Coronavirus 2, Isolate USA-WA1/2020, NR-52281."
Publications Citing this Reagent:	<p>Edwards, R. J., et al. "Cold Sensitivity of the SARS-CoV-2 Spike Ectodomain." <i>Nat. Struct. Mol. Biol.</i> (2021). doi: 10.1038/s41594-020-00547-5. PubMed: 33402708.</p> <p>Ning, B., et al. "A Smartphone-Read Ultrasensitive and Quantitative Saliva Test for COVID-19." <i>Sci. Adv.</i> 7 (2021): eabe3703. doi: 10.1126/sciadv.abe3703. PubMed: 33310733.</p> <p>Rogers, T. F., et al. "Isolation of Potent SARS-CoV-2 Neutralizing Antibodies and Protection from Disease in a Small Animal Model." <i>Science</i> 369 (2020): 956-963. PubMed: 32540903.</p> <p>Song, E., et al. "Neuroinvasion of SARS-CoV-2 in Human and Mouse Brain." <i>J. Exp. Med.</i> 218 (2021): e20202135. doi: 10.1084/jem.20202135. PubMed: 33433624.</p>

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- Customers located in the state of Hawaii will need to contact the Hawaii Department of Agriculture to determine if a

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