Vector pCAGGS Containing SARS Coronavirus Nonstructural Protein 3

Catalog No. NR-15179

For research use only. Not for human use.

Contributor: Peter Kuhn, Ph.D., Department of Cell and Molecular Biology, The Scripps Research Institute, La Jolla, California, USA

Manufacturer: BEI Resources

Product Description: The nonstructural protein 3 (nsp3) coding sequence from the Urbani strain of the severe acute respiratory syndrome-related coronavirus (SARS-CoV) was subcloned into a modified pCAGGS mammalian expression vector.1 The construct was engineered to encode a C-terminal fragment containing linker sequences, a hemagglutinin (HA) tag, a tobacco etch virus (TEV) protease cleavage site, and a 23 amino acid sequence that is site-specifically biotinylated by the Escherichia coli (E.coli) biotin ligase BirA.2 The resulting plasmid was named pCC431. NR-15179 was produced in E. coli TOP10 cells (Invitrogen™) and extracted using a QIAGEN® Plasmid Plus Maxi Kit.

Note that this full-length nsp3 construct failed to show protein expression following transfection of HEK293/ACE2 cells.1

NR-15179 has been qualified for use in bacterial transformations.

Material Provided: Each vial contains approximately 100 µL of plasmid DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.0). The DNA concentration and content are shown on the Certificate of Analysis. The vial should be centrifuged prior to opening.

Packaging/Storage: NR-15179 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation: Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Vector pCAGGS Containing SARS Coronavirus Nonstructural Protein 3, NR-15179."

Biosafety Level: 1


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References:

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