Vector pCAGGS Containing SARS Coronavirus Nonstructural Protein 1

Catalog No. NR-15182

For research use only. Not for human use.

Contributor:
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Manufacturer:
BEI Resources

Product Description:
The nonstructural protein 1 (nsp1) coding sequence from the TOR-2 strain of the severe acute respiratory syndrome-related coronavirus (SARS-CoV) was subcloned into a modified pCAGGS mammalian expression vector. The construct was engineered to encode a C-terminal fragment containing linkers, 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. The resulting plasmid was named pCC438. NR-15182 was produced in E. coli TOP10 cells (Invitrogen™) and extracted using a QIAGEN® Plasmid Plus Maxi Kit.

Nsp1 and associated cellular proteins can be efficiently purified from HEK293/ACE2 cells co-transfected with NR-15182 and a plasmid encoding BirA using streptavidin paramagnetic beads. NR-15182 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-15182 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 1, NR-15182.”

Biosafety Level: 1


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References:

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