Modified pCAGGS Vector Containing the SARS Coronavirus, Tor2 Non-Structural Protein 6 Gene

Catalog No. NR-15194
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For research use only. Not for use in humans.

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Manufacturer:
BEI Resources

Product Description:
The non-structural protein 6 (nsp6) gene from severe acute respiratory syndrome coronavirus (SARS-CoV), Tor2 (GenBank: AY274119) was cloned into the modified pCAGGS mammalian expression vector. 1 pCAGGS was modified by adding a hemagglutinin (HA) tag and 3X FLAG tag C-terminal to the insert coding sequence. NR-15194 contains the beta-lactamase gene, bla, to provide transformant selection through ampicillin resistance in Escherichia coli (E. coli). The complete plasmid sequence and map are provided on the BEI Resources webpage. The plasmid was produced in E. coli and extracted.

NSP6 is located within the SARS-CoV ORF1ab polyprotein. Together with NSP3 and NSP4, NSP6 induces the formation of double-membrane vesicles, which are critical structures required for viral replication. 2

Material Provided:
Each vial contains plasmid DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0). The DNA concentration and volume provided are shown on the Certificate of Analysis. The vial should be centrifuged prior to opening. Note: The contents of the vial should be used to replicate the plasmid in E. coli prior to mammalian expression.

Packaging/Storage:
NR-15194 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: Modified pCAGGS Vector Containing the SARS Coronavirus, Tor2 Non-Structural Protein 6 Gene, NR-15194.”

Biosafety Level: 1

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References:

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