

Vector pGEM-3Z-T7 Containing the SARS-Related Coronavirus 2, USA-WA1/2020 Nucleocapsid Gene

Catalog No. NR-58672

Product Description:

The Nucleocapsid Protein (N) gene from severe acute respiratory syndrome-related coronavirus 2 (SARS-CoV-2), isolate USA-WA1/2020 (GenPept: [QHO60601](#)) was cloned into the plasmid pGEM-3Z-T7. The deposited plasmid was transformed into One Shot™ TOP10 *E. coli* (Invitrogen™ C404003), grown in Luria-Bertani broth with ampicillin (100 µg/mL) for 1 day at 37°C in an aerobic atmosphere, extracted using a Plasmid *Plus* Maxi Kit (QIAGEN® 12963) and vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0).

Lot: 70062766

Manufacturing Date: 04DEC2023

| TEST | SPECIFICATIONS | RESULTS |
|--|---|--|
| Next-Generation DNA Sequencing | ~ 4160 base pairs | 4139 base pairs ¹ |
| Genotypic Analysis Sequencing of N gene (1260 base pairs) | ≥ 99% sequence identity to depositor's sequence | 100% sequence identity to depositor's sequence |
| Antibiotic Resistance Ampicillin (encoded by <i>bla</i> gene) | <i>bla</i> sequence present | <i>bla</i> sequence present |
| Concentration by PicoGreen® Measurement | ≥ 2 µg/mL | 1 µg in 40 µL/vial (25 µg/mL) |
| Amount per Vial | Report results | 1 µg/vial |
| OD₂₆₀/OD₂₈₀ Ratio (pre-vial) | 1.7 to 2.1 | 1.9 |
| Effective Bacterial Transformation Invitrogen™ One Shot™ TOP10 <i>Escherichia coli</i> | ≥ 50 colonies/ng | 195 colonies/ng |

¹The sequence was assembled pre-vial using the depositor's predicted sequence as the reference sequence. The complete plasmid sequence is provided on the BEI Resources webpage.

/Sonia Bjorum Brower/
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28 MAY 2024

Technical Manager or designee, ATCC Federal Solutions

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