

Vector pcDNA3.1 Containing Zaire Ebolavirus Glycoprotein

Catalog No. NR-19814

Product Description:

The viral glycoprotein gene from Zaire ebolavirus (EBOV) was synthesized by multiple rounds of overlapping PCR and subcloned into the Invitrogen™ vector pcDNA3.1. NR-19814 lot 70061842 was extracted from a preparation of BEI Resources seed lot 59499660, produced in One Shot™ TOP10 *E. coli* (Invitrogen™ C404003) in the presence of 50 µg/mL ampicillin and extracted using a Plasmid Plus Maxi Kit (QIAGEN® 12963).

Lot: 70061842

Manufacturing Date: 15SEP2023

TEST	SPECIFICATIONS	RESULTS
Confirmation of Insert by Restriction Enzyme Digestion Digestion with <i>SacI</i> ¹	~ 5.3 kb; ~ 2.5 kb	~ 5.3 kb; ~ 2.5 kb
Genotypic Analysis Sequencing of Zaire EBOV glycoprotein insert (~1680 base pairs)	≥ 99% sequence identity to depositor's sequence	99.9% sequence identity to depositor's sequence
Concentration by Qubit® Measurement	≥ 2 µg/mL	1.65 µg in 100 µL/vial (16 µg/mL)
Amount per Vial	Report results	1.65 µg/vial
OD₂₆₀/OD₂₈₀ Ratio (pre vial)	1.7 to 2.1	1.9
Effective Bacterial Transformation Invitrogen™ One Shot™ TOP10 <i>E. coli</i>	≥ 50 colonies/ng	355 colonies/ng

¹*SacI* (New England BioLabs, Inc. R31565)

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30 JAN 2024

Technical Manager or designee, ATCC Federal Solutions

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