

**Vector pCAGGS Containing the Zaire Ebolavirus, SLE/2014/Makona-G3848 Glycoprotein Gene**

**Catalog No. NR-51477**

**Product Description:**

NR-51477 is an expression vector designed to express full-length, Zaire ebolavirus (EBOV), SLE/2014/Makona-G3848 spike glycoprotein (GP) precursor (GenPept: [AIG96562.1](#)). The deposited plasmid was transformed into One Shot™ TOP10 *Escherichia coli* (Invitrogen™ C404003), grown in Luria-Bertani broth with ampicillin (50 µg/mL) for 1 day at 37°C in an aerobic atmosphere, extracted using a QIAGEN® Plasmid Plus Maxi Kit (QIAGEN® 12963) and vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA).

**Lot: 70024664**

**Manufacturing Date: 07JUN2019**

TEST	SPECIFICATIONS	RESULTS
<b>Next-Generation DNA Sequencing</b>	Report results	6849 base pairs <sup>1</sup>
<b>Genotypic Analysis</b> Sequence analysis of GP gene insert (2030 base pairs)	Report results	98% sequence identity EBOV SLE/2014/Makona G3848 (GenBank: KM233110.1) <sup>2</sup>
<b>Antibiotic Resistance</b> Ampicillin (encoded by beta-lactamase gene <i>bla</i> )	<i>bla</i> sequence present	<i>bla</i> sequence present
<b>Concentration by PicoGreen® Measurement</b>	≥ 2 µg/mL	1.6 µg in 100 µL (16 µg/mL)
<b>Amount per Vial</b>	Report results	1.6 µg/vial
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio (pre-vial)</b>	1.7 to 2.1	1.9
<b>Effective Bacterial Transformation</b> Invitrogen™ One Shot™ TOP10 <i>Escherichia coli</i>	≥ 50 colonies/ng	85 colonies/ng

<sup>1</sup>The sequence was assembled pre-vial using *de novo* analysis.

<sup>2</sup>The GP gene insert has 35 nucleotide mismatches with the EBOV SLE/2014/Makona-G3848 nucleotide sequence but is 100% identical to the amino acid sequence (GenPept: AIG96562.1).

/Sonia Bjorum Brower/

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05 JUN 2024

Technical Manager or designee, ATCC Federal Solutions

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