

**Vector pCAGGS Containing the Zaire Ebolavirus, SLE/2014/Makona-G3848 Nucleoprotein Gene with N-Terminal FLAG Tag**

**Catalog No. NR-51474**

**Product Description:**

The nucleoprotein (NP) gene from Zaire ebolavirus (EBOV), SLE/2014/Makona-G3848 (GenBank: [KM233110](#)) was subcloned into the pCAGGS mammalian expression vector with an N-terminal FLAG tag. The beta-lactamase gene, *bla*, provides transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). The deposited plasmid was transformed into Invitrogen™ 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: 70024825**

**Manufacturing Date: 31MAY2019**

TEST	SPECIFICATIONS	RESULTS
<b>Next-Generation DNA Sequencing</b>	Report results	7123 base pairs <sup>1</sup>
Sequencing of NP gene ( 2220 base pairs)	Report results	99.9% sequence identity to EBOV SLE/2014/Makona-G3848 (GenBank: KM233110.1) <sup>2</sup>
N-terminal FLAG tag	FLAG tag sequence confirmed	FLAG tag sequence confirmed
<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	1.4 µg in 100 µL (14 µg/mL)
<b>Amount per Vial</b>	Report results	1.4 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	102 colonies/ng

<sup>1</sup>The sequence was assembled pre-vial using *de novo* analysis. The complete plasmid sequence is provided on the BEI Resources webpage.

<sup>2</sup>100% identity to EBOV SLE/2014/Makona-G3848 NP amino acid sequence.

/Sonia Bjorum Brower/

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15 APR 2024

Technical Manager or designee, ATCC Federal Solutions

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