

**Vector pCAGGS Containing the Zaire Ebolavirus, SLE/2014/Makona-G3848 VP35 Gene with N-Terminal FLAG Tag**

**Catalog No. NR-51475**

**Product Description:**

NR-51475 is an expression vector designed to express full length, N-terminal FLAG tagged VP35 matrix protein from Zaire ebolavirus (EBOV), SLE/2014/Makona-G3848 (GenPept: [AIG96560.1](#)). SLE/2014/Makona-G3848 VP35 coding gene insert was derived by site-directed mutagenesis of Zaire EBOV, Mayinga (GenBank: [AF086833.2](#)) VP35 gene, resulting in an amino acid sequence that is 100% identical to that of SLE/2014/Makona-G3848 VP35. 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: 70028427**

**Manufacturing Date: 07JUN2019**

TEST	SPECIFICATIONS	RESULTS
<b>Next-Generation DNA Sequencing</b>	Report results	5855 base pairs <sup>1</sup>
<b>Genotypic Analysis</b> Sequencing of VP35 gene (1023 base pairs)	Report results	99.2% 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	1.7 µg in 100 µL (17 µg/mL)
<b>Amount per Vial</b>	Report results	1.7 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>E. coli</i>	≥ 50 colonies/ng	162 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 VP35 amino acid sequence (GenPept: AIG96560.1)

/Sonia Bjorum Brower/

Sonia Bjorum Brower

15 APR 2024

Technical Manager or designee, ATCC Federal Solutions

ATCC®, on behalf of BEI Resources, hereby represents and warrants that the material provided under this certificate has been subjected by ATCC® to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

ATCC® is a trademark of the American Type Culture Collection.

You are authorized to use this product for research use only. It is not intended for human use.

