

**Vector pCAGGS Containing the Zaire Ebolavirus, Mayinga VP30 Gene with N-Terminal HA Tag**

**Catalog No. NR-49404**

**Product Description:**

The VP30 matrix protein gene from Zaire ebolavirus (EBOV), Mayinga (GenBank: [AF086833](#)) was directionally subcloned into a modified pCAGGS mammalian expression vector. The resulting plasmid encodes a recombinant EBOV VP30 containing an HA tag (YPYDVPDYA) and three additional alanine residues at the amino terminus. NR-49404 was extracted from a preparation of BEI Resources seed lot 63417487 using a QIAGEN® Plasmid *Plus* Maxi Kit (QIAGEN® 12963) and vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0).

**Lot: 70071799**

**Manufacturing Date: 04OCT2024**

TEST	SPECIFICATIONS	RESULTS
<b>Next-Generation DNA Sequencing</b>	Report results	4902 base pairs <sup>1</sup>
<b>Genotypic Analysis</b> Sequencing of VP30 gene insert (868 base pairs)	≥ 99.9% sequence identity to EBOV Mayinga, Zaire, 1976 (GenBank: AF086833.2)	100% sequence identity to EBOV Mayinga, Zaire, 1976 (GenBank: AF086833.2)
N-terminal HA tag	HA tag sequence confirmed	HA 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 Qubit Fluorometer®</b>	≥ 2 µg/mL	1.95 µg in 100 µL (19.5 µg/mL)
<b>Amount per Vial</b>	Report results	1.95 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	902 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.

/Sonia Bjorum Brower/  
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03 DEC 2024

Technical Manager or designee, ATCC Federal Solutions

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