

Vector pCAGGS Containing the Zaire Ebolavirus, Mayinga VP40 Gene with N-Terminal HA Tag

Catalog No. NR-49400

Product Description:

The VP40 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 VP40 containing an HA tag (YPYDVPDYA) and three additional alanine residues at the amino terminus. NR-49400 was extracted from a preparation of BEI Resources seed lot 63417486 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: 70063762

Manufacturing Date: 27SEP2023

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	Report results	6450 base pairs ¹
Genotypic Analysis Sequencing of VP40 gene insert (981 base pairs) N-terminal HA tag	≥ 99.9% sequence identity to EBOV Mayinga, Zaire, 1976 (GenBank: AF086833.1) HA tag sequence confirmed	99.9% sequence identity to EBOV Mayinga, Zaire, 1976 (GenBank: AF086833.1) ² HA tag sequence confirmed
Antibiotic Resistance Ampicillin (encoded by beta-lactamase gene <i>bla</i>)	<i>bla</i> sequence present	<i>bla</i> sequence present
Concentration by Qubit Fluorometer®	≥ 2 µg/mL	3.2 µg in 100 µL (30 µg/mL)
Amount per Vial	Report results	3.2 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	155 colonies/ng

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

²Comparison to the reference sequence (GenBank: [AF086833](#)) indicates one SNP within the gene insert (g927a).

/Sonia Bjorum Brower/

Sonia Bjorum Brower

18 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.

