

Vector pCAGGS Containing the Marburg Virus-Musoke VP40 Gene with N-Terminal FLAG Tag

Catalog No. NR-49410

Product Description:

The VP40 matrix protein gene from Marburg virus (MARV), Musoke (GenBank: [DQ217792](#)) was directionally subcloned into a modified pCAGGS mammalian expression vector. The resulting plasmid encodes a recombinant MARV VP40 containing a FLAG tag (DYKDDDDK) and three additional alanine residues at the amino terminus. NR-49410 was extracted from a preparation of BEI Resources seed lot 63433838 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: 70063618

Manufacturing Date: 27APR2023

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	Report results	5595 base pairs ¹
Genotypic Analysis Sequencing of VP40 gene insert (~ 910 base pairs)	≥ 99.9% sequence identity to Marburg virus - Musoke (GenBank: DQ217792.1)	100% sequence identity to Marburg virus - Musoke (GenBank: DQ217792.1)
N-terminal FLAG tag	FLAG tag sequence confirmed	FLAG 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	1.8 µg in 100 µL (18 µg/mL)
Amount per Vial	Report results	1.8 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	100 colonies/ng

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

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16 APR 2024

Technical Manager or designee, ATCC Federal Solutions

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