

Vector paH Containing Human Respiratory Syncytial Virus (RSV) B, Strain 18537, Recombinant Fusion (F) Glycoprotein dFP Gene (Postfusion)

Catalog No. NR-59833

This reagent is the tangible property of the U.S. Government.

Product Description:

NR-59833 is an expression vector encoding human respiratory syncytial virus (RSV) B, strain 18537 recombinant postfusion F glycoprotein (UniProt: [P13843](#)). The construct consists of residues 1 to 513 [with fusion peptide residues 137 to 146 deleted (dFP)], HRV3C protease cleavage site, and C-terminal octa-histidine and Strep-Tag®II tags. NR-59833 contains the beta-lactamase gene, *bla*, to provide transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). The deposited plasmid was transformed into One Shot™ TOP10 *Escherichia coli* (Invitrogen™ C404010), grown in LB broth with ampicillin (100 µg/mL) for 16 to 20 hours at 37°C in an aerobic atmosphere, extracted using a Plasmid Plus Maxi Kit (QIAGEN® 12963) and vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8).

Lot: 70069785

Manufacturing Date: 27JUN2024

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 6140 base pairs	6142 base pairs ¹
Genotypic Analysis Sequencing of glycoprotein dFP gene insert (~ 1600 base pairs)	≥ 99% sequence identity to depositor's sequence	100% sequence identity to depositor's sequence
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	1.6 µg in 100 µL/vial (16.3 µg/mL)
Amount per Vial	Report results	1.6 µg/vial
OD ₂₆₀ /OD ₂₈₀ Ratio (pre-vial)	1.7 to 2.1	1.9
Effective Bacterial Transformation Invitrogen™ One Shot™ TOP10 <i>Escherichia coli</i>	≥ 50 colonies/ng	304 colonies/ng

¹The sequence was assembled pre-vial using the depositor's predicted sequence as the reference sequence. The complete plasmid sequence is provided on the BEI Resources webpage.

/Sonia Bjorum Brower/

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09 SEP 2024

Technical Manager or designee, ATCC Federal Solutions

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