



Certificate of Analysis for HRP-13905

Vector pBluescript NL4-3 *envFS* eGFP

Catalog No. HRP-13905

Product Description:

HRP-13905 is a single cycle vector encoding full-length HIV-1 NL4-3 (clade B) in the plasmid pBluescript with flanking host sequences deleted, frameshift in *env* and eGFP in place of *nef*. The beta-lactamase gene, *bla*, provides transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). The deposited plasmid was transformed into One Shot™ TOP10 *E. coli* (Invitrogen™ C404003), grown in Luria-Bertani broth with ampicillin (50 µg per mL) for 1 day 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 8.0).

Lot: 70047380

Manufacturing Date: 29SEP2021

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	Report results	12,624 base pairs ¹
Genotypic Analysis Sequencing of pBluescript NL4-3 <i>envFS</i> eGFP (~ 12,600 base pairs)	≥ 99% sequence identity to GenBank AF324493.2	99.9% sequence identity to GenBank AF324493.2 ²
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®	Report results	2 µg in 100 µL per vial (0.02 mg per mL)
Amount per Vial	Report results	2 µg per vial
OD ₂₆₀ /OD ₂₈₀ Ratio (pre-vial)	1.7 to 2.1	1.86
Effective Bacterial Transformation Invitrogen™ One Shot™ TOP10 <i>Escherichia coli</i>	Report results	> 500 colonies per ng

¹The sequence was assembled pre-vial using the depositor's predicted sequence as the reference sequence. The complete plasmid sequence and map are provided on the NIH HIV Reagent Program webpage.

²Comparison to an accessioned sequence in GenBank for the pNL4-3 vector indicates there are no SNPs within the coding region of the plasmid insert.

/Ken Crawford/

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17 FEB 2023

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HRP-13905_70047380_17FEB2023

Page 1 of 1