



Certificate of Analysis for HRP-13909

Vector pUC57-mini Z331M-TF Δenv eGFP

Catalog No. HRP-13909

Product Description:

Note: The label on the vial is incorrect; the plasmid expresses eGFP.

HRP-13909 is a single-cycle vector encoding full-length HIV-1_{Z331M-TF} [primary, transmitted/founder HIV-1 clone (clade C) derived from single genome sequencing] in the plasmid pUC57-mini with deletion of 79 nucleotides following the Env signal peptide 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: 70047388

Manufacturing Date: 05OCT2021

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 12,290 base pairs	12,291 base pairs ¹
Genotypic Analysis Sequencing of pUC57-mini Z331M-TF Δenv eGFP (~ 12,290 base pairs)	≥ 99% sequence identity to depositor's sequence	99.9% 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®	Report results	1.0 µg in 100 µL per vial (0.01 mg per mL)
Amount per Vial	Report results	1.0 µg per vial
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	1.93
Effective Bacterial Transformation Invitrogen™ One Shot™ TOP10 <i>E. coli</i>	Report results	> 500 colonies per ng

¹The sequence was assembled pre-vial via *de novo* assembly using Unicycler v0.4.8-beta. The complete plasmid sequence and map are provided on the NIH HIV Reagent Program webpage.

/Ken Crawford/

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08 DEC 2022

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NIH HIV Reagent Program

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