



# Certificate of Analysis for HRP-20249

## pNL-NLucΔEnv Vector

Catalog No. HRP-20249

### Product Description:

HRP-20249 is an HIV-1 indicator viral expression vector, encoding HIV-1 nano luciferase reporter virus (NL-NLuc) lacking 943 bp segment of *env* (envelope) gene, which renders it replication incompetent. NL-NLuc was generated from the parental NL4-3 molecular clone by introducing NLuc at the N terminal of Nef (96 bp of the ORF deleted) and preventing its expression. The vector carries an ampicillin resistance marker for transformant selection. The deposited plasmid was transformed into One Shot™ TOP10 *E. coli* (Invitrogen™ C404003), grown in Luria-Bertani broth with ampicillin (50 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 8.0).

Lot: 70059385

Manufacturing Date: 24MAR2023

TEST	SPECIFICATIONS	RESULTS
Next Generation DNA Sequencing	~ 15,000 base pairs	14,318 base pairs <sup>1</sup>
Insertion of NLuc	<i>nluc</i> sequence present	<i>nluc</i> sequence present
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	1.5 µg in 100 µL per vial (0.015 mg/mL)
Amount per Vial	Report results	1.5 µg per vial
OD <sub>260</sub> /OD <sub>280</sub> Ratio (pre-vial)	1.7 to 2.1	1.9
Effective Bacterial Transformation Invitrogen™ One Shot™ TOP10 <i>E. coli</i>	Report results	252 colonies/ng

<sup>1</sup>*De novo* assembly of the NGS sequence was carried out pre-vial. The complete plasmid sequence and map are provided on the NIH HIV Reagent Program webpage.

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## NIH HIV Reagent Program

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