



# Certificate of Analysis for HRP-20248

## pNL-GFPΔEnv-D64V (IN-) Vector

Catalog No. HRP-20248

### Product Description:

HRP-20248 is an HIV-1 indicator viral expression vector, encoding HIV-1 green fluorescent protein (GFP) reporter virus lacking 943 bp segment of *env* (envelope) gene, which renders it replication incompetent, and an inactivating D64V mutation in the integrase (IN-). 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/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: 70059384

Manufacturing Date: 16MAR2023

TEST	SPECIFICATIONS	RESULTS
Next Generation DNA Sequencing	~ 15,000 base pairs	14,825 base pairs <sup>1</sup>
Integrase D64V mutation	Mutation present	Mutation present
Insertion of GFP	<i>gfp</i> sequence present	<i>gfp</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	1.6 µg in 100 µL/vial (16 µg/mL)
Amount per Vial	Report results	1.6 µg/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	208 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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16 NOV 2023

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## NIH HIV Reagent Program

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