

**pNL-GFPΔEnv Vector**

**Catalog No. HRP-20247**

**Product Description:**

HRP-20247 is a human immunodeficiency virus type 1 (HIV-1) indicator viral expression vector, encoding an HIV-1 green fluorescent protein (GFP) reporter virus lacking a 943-base pair (bp) segment of the *env* (envelope) gene, which renders it replication-incompetent. 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).

**Lot: 70059383**

**Manufacturing Date: 16MAR2023**

TEST	SPECIFICATIONS	RESULTS
Next Generation DNA Sequencing	~ 15,000 base pairs	14,825 base pairs <sup>1</sup>
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	1.9 µg in 100 µL/vial (19 µg/mL)
Amount per Vial	Report results	1.9 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	146 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 BEI Resources webpage.

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