

## **Certificate of Analysis for HRP-11739**

## Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, pWITO.c/2474

## Catalog No. HRP-11739

This reagent is the tangible property of the U.S. Government.

## **Product Description:**

HRP-11739 is a full-length transmitted/founder (T/F) human immunodeficiency virus type 1 (HIV-1) subtype B infectious molecular clone (IMC). The plasmid encodes full-length, replication-competent virus in a pCR-XL-TOPO vector backbone. The pWITO.c/2474 insert (GenBank: JN944938.1) is 9718 base pairs, and the resulting size of the plasmid is approximately 13,120 base pairs. The deposited plasmid DNA was transformed into MAX Efficiency™ Stbl2™ *E. coli* (Invitrogen™ 10268019), grown in Luria-Bertani broth with kanamycin (50 µg/mL) for 20 hours at 30°C in an aerobic atmosphere, extracted using a Plasmid *Plus* Maxi Kit (QIAGEN® 12963) and vialed in TE buffer (10 mM Tris-HCI, 1 mM EDTA, pH 8.0).

Lot: 70066964 Manufacturing Date: 22MAR2024

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 13,120 base pairs	13,121 base pairs <sup>1</sup>
Genotypic Analysis Sequencing of pWITO.c/2474 insert (9718 base pairs)	≥ 99% sequence identity to depositor's sequence (GenBank: JN944938.1)	100% sequence identity to depositor's sequence (GenBank: JN944938.1)
Antibiotic Resistance Kanamycin (encoded by kanamycin gene aph)	aph sequence present	aph sequence present
Concentration by Qubit Fluorometer®	Report results	2.0 μg in 100 μL/vial (20 μg/mL)
Amount per Vial	Report results	2.0 μg/vial
OD <sub>260</sub> /OD <sub>280</sub> Ratio (pre-vial)	1.7 to 2.1	1.9
Effective Bacterial Transformation Invitrogen™ MAX Efficiency™ Stbl2™ <i>E. coli</i>	≥ 50 colonies/ng	549 colonies/ng

<sup>&</sup>lt;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.

/Kenneth R. Crawford/

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