

Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, pREJO.c/2864

Catalog No. HRP-11746

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Product Description:

HRP-11746 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 pBR322 vector backbone. The pREJO.c/2864 insert (GenBank: [JN944943](#)) is 9742 base pairs, and the resulting size of the plasmid is approximately 14,000 base pairs. The deposited plasmid DNA was transformed into MAX Efficiency™ Stbl2™ *E. coli* (Invitrogen™ 10268019), grown in Luria-Bertani broth with ampicillin (100 µg/mL) for 20 hours at 30°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: 70067139

Manufacturing Date: 06JUN2024

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 14,000 base pairs	14,003 base pairs ¹
Genotypic Analysis Sequencing of pREJO.c/2864 insert (9742 base pairs)	≥ 99% sequence identity to depositor's sequence (GenBank: JN944943.1)	100% sequence identity to depositor's sequence (GenBank: JN944943.1)
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	1.39 µg in 100 µL/vial (13.9 µg/mL)
Amount per Vial	Report results	1.39 µg/vial
OD₂₆₀/OD₂₈₀ Ratio (pre-vial)	1.7 to 2.1	1.9
Effective Bacterial Transformation Invitrogen™ MAX Efficiency™ Stbl2™ <i>E. coli</i>	≥ 50 colonies/ng	533 colonies/ng

¹The sequence was assembled pre-vial using the depositor's predicted sequence as the reference sequence. The complete plasmid sequence and map are provided on the BEI Resources webpage.

/Kenneth R. Crawford/

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20 SEP 2024

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