

Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, pZM249M

Catalog No. HRP-12416

Product Description:

Note: The item name on the vial label should be HIV-1 pZM249M Infectious Molecular Clone.

HRP-12416 is a full-length molecular clone of replication-competent human immunodeficiency virus type 1 (HIV-1) subtype B provirus generated from single genome amplification-derived consensus sequence of transmitted/founder virus. Insert was cloned at *MluI*/*NotI* restriction sites in pCR-XL-TOPO vector. 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 vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0).

Lot: 70066965

Manufacturing Date: 02AUG2024

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 13,150 base pairs	13,150 base pairs ¹
Genotypic Analysis Sequencing of pZM249M (13,150 base pairs)	≥ 99% sequence identity to depositor's sequence	100% sequence identity to depositor's sequence
Antibiotic Resistance Kanamycin (encoded by <i>aph</i> gene)	<i>aph</i> sequence present	<i>aph</i> sequence present
Concentration by Qubit Fluorometer®	Report results	1.12 µg in 100 µL/vial (11.2 µg/mL)
Amount per Vial	Report results	1.12 µg/vial
OD ₂₆₀ /OD ₂₈₀ Ratio (pre-vial)	1.7 to 2.1	1.9
Effective Bacterial Transformation Invitrogen™ MAX Efficiency™ <i>Stbl2</i> ™ <i>E. coli</i>	≥ 50 colonies/ng	661 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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22 OCT 2024

Lead Technical Writer or designee, ATCC Federal Solutions

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HIV REAGENT
PROGRAM
