

Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, pCH106.c/2633

Catalog No. HRP-11743

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Product Description:

HRP-11743 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 pCH106.c/2633 insert (GenBank: [JN944942](#)) is 9699 base pairs and the resulting size of the plasmid is approximately 13,220 base pairs. The deposited plasmid DNA was transformed into One Shot™ Stbl3™ *E. coli* (Invitrogen™ C737303), grown in Luria-Bertani broth with kanamycin (50 µg/mL) for 20 hours at 30°C in an aerobic atmosphere, extracted using a ZymoPURE™ II Plasmid Maxiprep Kit (Zymo Research® D4202) and vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0).

Lot: 70067136

Manufacturing Date: 10OCT2024

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 13,220 base pairs	13,219 base pairs ¹
Genotypic Analysis Sequencing of pCH106.c/2633 insert (9699 base pairs)	≥ 99% sequence identity to depositor's sequence (GenBank: JN944942)	100% sequence identity to depositor's sequence (GenBank: JN944942)
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	1.73 µg in 100 µL/vial (17.3 µg/mL)
Amount per Vial	Report results	1.73 µg/vial
OD₂₆₀/OD₂₈₀ Ratio (pre-vial)	1.7 to 2.1	1.9
Effective Bacterial Transformation One Shot™ Stbl3™ <i>E. coli</i>	≥ 50 colonies/ng	508 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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