

**Human Immunodeficiency Virus Type 1 (HIV-1) MJ4 Infectious Molecular Clone, pMJ4**

**Catalog No. HRP-6439**

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**Product Description:**

HRP-6439 is an infectious human immunodeficiency virus type 1 (HIV-1) subtype C molecular clone (GenBank: [AF321523.1](#)) from a Southern African (Botswana) isolate. The pMJ4 insert is 9930 base pairs, and the resulting size of the plasmid is approximately 12,833 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 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 8.0).

**Lot: 70076817**

**Manufacturing Date: 12JUN2025**

TEST	SPECIFICATIONS	RESULTS
<b>Next-Generation DNA Sequencing</b>	~ 12,830 base pairs	12,833 base pairs <sup>1</sup>
<b>Genotypic Analysis</b> Sequencing of pMJ4 insert (9930 base pairs)	≥ 99% sequence identity to depositor's sequence	100% sequence identity to depositor's sequence
<b>Antibiotic Resistance</b> Ampicillin (encoded by beta-lactamase gene <i>bla</i> )	<i>bla</i> sequence present	<i>bla</i> sequence present
<b>Concentration by Qubit Fluorometer®</b>	Report results	2.9 µg in 100 µL/vial (29 µg/mL)
<b>Amount per Vial</b>	Report results	2.9 µg/vial
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio (pre-vial)</b>	1.7 to 2.1	1.9
<b>Effective Bacterial Transformation</b> Invitrogen™ MAX Efficiency™ Stbl2™ <i>E. coli</i>	≥ 50 colonies/ng	89 colonies/ng

<sup>1</sup>The 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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25 SEP 2025

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