

Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, 175019/pGEM-5Zf(+)

Catalog No. HRP-20368

Product Description:

HRP-20368 is a full-length transmitted/founder (T/F) human immunodeficiency virus type 1 (HIV-1) subtype A1 infectious molecular clone. The plasmid encodes full-length, replication-competent virus in a pGEM-5Zf(+) vector backbone. The deposited plasmid was vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0).

Lot: 70077841

Date of Receipt: 22MAY2025

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis Sequencing of the insert (~ 9080 base pairs)	≥ 99% sequence identity to HIV-1 isolate 175019_6_TF from Rwanda (GenBank: MT942773.1)	≥ 99.9% sequence identity to HIV-1 isolate 175019_6_TF from Rwanda (GenBank: MT942773.1) 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	0.5 µg in 100 µL/vial (4.8 µg/mL)
Amount per Vial	Report results	0.5 µg/vial
OD₂₆₀/OD₂₈₀ Ratio	1.7 to 2.1	1.9
Effective Bacterial Transformation Promega™ JM109 <i>E. coli</i>	≥ 50 colonies/ng	77 colonies/ng

¹Comparison to the GenBank sequence indicates one SNP in the sequence. However, it did not change the amino acid sequence of the viral protein.

/Kenneth R. Crawford/

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17 MAR 2026

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