

Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, 175092/pGEM-5Zf(+)

Catalog No. HRP-20374

Product Description:

HRP-20374 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: 70081011

Date of Receipt: 22MAY2025

TEST	SPECIFICATIONS	RESULTS
Genotypic Analysis¹ Sequencing of the insert (~ 9136 base pairs)	≥ 99% sequence identity to HIV-1 isolate 175092_1 from Rwanda (GenBank: MT942928.1)	≥ 99.9% sequence identity to HIV-1 isolate 175092_1 from Rwanda (GenBank: MT942928.1)
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	0.6 µg in 50 µL/vial (11.1 µg/mL)
Amount per Vial	Report results	0.6 µg/vial
OD₂₆₀/OD₂₈₀ Ratio²	1.7 to 2.1	1.6
Effective Bacterial Transformation Promega™ JM109 <i>E. coli</i>	≥ 50 colonies/ng	50 colonies/ng

¹Comparison to the GenBank sequence indicates several SNPs are present, resulting in a single amino acid change, E401D, in the Pol protein (QNR58058.1). The effects of the change are unknown.

²Although the OD_{260/280} ratio is below the specifications; we have not seen a loss of functionality with this material.

/Kenneth R. Crawford/
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