

# Certificate of Analysis for HRP-20279

## Simian-Human Immunodeficiency Virus Infectious Molecular Clone, pSHIV DH12-V3AD8

### Catalog No. HRP-20279

This reagent is the tangible property of the U.S. Government.

### Product Description:

HRP-20279 is a full-length infectious molecular clone of simian-human immunodeficiency virus, SHIV DH12-V3AD8. The plasmid is approximately 13,150 base pairs and contains an ampicillin resistance marker for transformant selection. 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 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: 70061148**

**Manufacturing Date: 27JUN2023**

TEST	SPECIFICATIONS	RESULTS
<b>Next-Generation DNA Sequencing</b>	~ 13,150 base pairs	13,158 base pairs <sup>1</sup>
<b>Genotypic Analysis</b> Sequencing of gp120 V3 region of SHIV AD8EO	≥ 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	1.4 µg in 100 µL/vial (14 µg/mL)
<b>Amount per Vial</b>	Report results	1.4 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>	Report results	53 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 is provided on the BEI Resources webpage.

/Kenneth R. Crawford/

**Kenneth R. Crawford**

01 MAY 2024

Lead Technical Writer or designee, ATCC Federal Solutions

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