



# Certificate of Analysis for HRP-20103

## Simian Immunodeficiency Virus Infectious Molecular Clone pSIVsun

### Catalog No. HRP-20103

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

### Product Description:

HRP-20103 is a full-length, infectious molecular clone of the simian immunodeficiency virus (SIV), SIVsun, available through the NIH HIV Reagent Program (HRP-20128). The plasmid encodes full-length replication-competent virus in a pUC19 vector backbone. The beta-lactamase gene, *bla*, provides transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). The pSIVsun insert is approximately 10,000 base pairs and the resulting size of the plasmid is approximately 13,000 base pairs. The purified plasmid DNA was provided vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA).

Lot: 70051551

Receipt Date: 30SEP2021

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 10,006 base pairs	10,006 base pairs <sup>1</sup>
<b>Genotypic Analysis</b> Sequencing of pSIVsun insert (~ 10,000 base pairs)	≥ 99% sequence identity to depositor's sequence	99.9% sequence identity to depositor's sequence
Concentration by Qubit® Measurement	≥ 2 µg/mL	0.5 µg in 100 µL per vial (5 µg/mL)
Amount per Vial	Report results	0.5 µg per vial
OD <sub>260</sub> /OD <sub>280</sub> Ratio (pre vial)	1.7 to 2.1	1.8
<b>Effective Bacterial Transformation</b> Invitrogen™ MAX Efficiency™ Stbl2™ <i>E. coli</i>	≥ 50 colonies/ng	333 colonies/ng

<sup>1</sup>The sequence was assembled pre-vial using the depositor's predicted sequence (GenBank: [AF131870](#)) as the reference sequence. The insert sequence is provided on the NIH HIV Reagent Program webpage.

/Ken Crawford/

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