

**Simian Immunodeficiency Virus Infectious Molecular Clone, pSIVsmE543-3**

**Catalog No. HRP-20092**

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

**Product Description:**

HRP-20092 is a full-length infectious molecular clone of the simian immunodeficiency virus (SIV), SIVsmE543-3 (BEI Resources HRP-20116). The plasmid encodes full-length, replication-competent virus in a pUC19 vector backbone. The ampicillin resistance gene, *bla*, provides transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). HRP-20092 was produced by the culture of the deposited material and extracted using Plasmid *Plus* Maxi Kit (QIAGEN® 12963). The purified plasmid DNA is provided in TE buffer (10 mM Tris-HCl, 1 mM EDTA).

**Lot: 70053000**

**Manufacturing Date: 18NOV2022**

TEST	SPECIFICATIONS	RESULTS
<b>Next-Generation DNA Sequencing</b>	~ 10,300 base pairs	10,315 base pairs <sup>1</sup>
<b>Genotypic Analysis</b> Sequencing of pSIVsmE543-3 insert (10,315 base pairs)	≥ 99% sequence identity to depositor's sequence (GenBank: U72748.2)	100% sequence identity to depositor's sequence (GenBank: U72748.2)
<b>Concentration by Qubit Fluorometer®</b>	Report results	1.1 µg in 100 µL/vial (11 µg/mL)
<b>Amount per Vial</b>	Report results	1.1 µg/vial
<b>OD<sub>260</sub>/OD<sub>280</sub> Ratio (pre-vial)</b>	1.7 to 2.1	2.0
<b>Effective Bacterial Transformation</b> Invitrogen™ MAX Efficiency™ Stbl2™ <i>E. coli</i>	Report results	63 colonies/ng

<sup>1</sup>The sequence was assembled pre-vial using the depositor's predicted sequence as the reference sequence. The insert sequence is provided on the BEI Resources webpage.

/Kenneth R. Crawford/  
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24 APR 2024

Lead Technical Writer or designee, ATCC Federal Solutions

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