



Certificate of Analysis for HRP-20096

Simian Immunodeficiency Virus Infectious Molecular Clone pSIVsmE660-807-16w Env

Catalog No. HRP-20096

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

Product Description:

HRP-20096 is a full-length infectious molecular clone of the simian immunodeficiency virus (SIV), SIVsmE660-807-16w Env, which is available through NIH HIV Reagent Program (HRP-20121). 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 pSIVsmE660-807-16w Env insert is approximately 10,300 base pairs and the resulting size of the plasmid is approximately 13,000 base pairs. The purified plasmid DNA is provided in TE buffer (10 mM Tris-HCl, 1 mM EDTA).

Lot: 70053003

Receipt Date: 30SEP2021

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 10,300 base pairs	10,287 base pairs ¹
Genotypic Analysis Sequencing of pSIVsmE660-807-16w Env insert (~ 10,300 base pairs)	≥ 99% sequence identity to depositor's sequence	99.9% sequence identity to depositor's sequence
Concentration by Qubit® Measurement	≥ 2 µg/mL	1.4 µg in 100 µL per vial (14.0 µg/mL)
Amount per Vial	Report results	1.4 µg per vial
OD₂₆₀/OD₂₈₀ Ratio (pre vial)	1.7 to 2.1	1.6 ²
Effective Bacterial Transformation Invitrogen™ MAX Efficiency™ Stbl2™ <i>E. coli</i>	Report results	4 to 6 colony/ng ³

¹The sequence was assembled pre-vial using the depositor's predicted sequence (GenBank: [JQ864087.1](#)) as the reference sequence. The insert sequence is provided on the NIH HIV Reagent Program webpage.

²The OD₂₆₀/OD₂₈₀ ratio was below specification; however, we have not seen a loss of functionality with this material.

³Some plasmids and molecular clones have shown very low bacterial transformation; however, we have not seen a loss of functionality with this material.

/Ken Crawford/

Ken Crawford

13 NOV 2023

Lead Technical Writer, ATCC Federal Solutions

ATCC®, on behalf of the NIH HIV Reagent Program, hereby represents and warrants that the material provided under this certificate has been subjected, by ATCC® and the contributor, to the tests and procedures specified and that the results described, along with any other data provided in this certificate, are true and accurate to the best of ATCC®'s knowledge.

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NIH HIV Reagent Program

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HRP-20096_70053003_13NOV2023

Page 1 of 1