

Simian Immunodeficiency Virus Type 1 (SIV-1) Infectious Molecular Clone, pSIVmac239 SpX

Catalog No. HRP-12249

Product Description:

HRP-12249 is a full-length, infectious simian immunodeficiency virus (SIV) proviral DNA clone, SIVmac239 SpX. It includes *gag*, *pol*, *env*, *vif*, *vpx*, *vpr*, *tat*, *rev* and *nef* coding regions. The plasmid is approximately 12,950 base pairs including the insert (GenBank: [M33262](#)). The beta-lactamase gene, *bla*, provides transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). 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).

Lot: 70067029

Manufacturing Date: 08MAR2024

TEST	SPECIFICATIONS	RESULTS
Next-Generation DNA Sequencing	~ 12,950 base pairs	12,947 base pairs ¹
Genotypic Analysis Sequencing of pSIVmac239 SpX insert (~ 10,530 base pairs)	≥ 99% sequence identity to depositor's sequence (GenBank: M33262.1)	99.9% sequence identity to depositor's sequence (GenBank: MM33262.1)
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	0.45 µg in 100 µL/vial (4.5 µg/mL)
Amount per Vial	Report results	0.45 µg/vial
OD ₂₆₀ /OD ₂₈₀ Ratio (pre-vial)	1.7 to 2.1	2.0
Effective Bacterial Transformation Invitrogen™ MAX Efficiency™ Stbl2™ <i>E. coli</i>	≥ 50 colonies/ng	892 colonies/ng

¹The sequence was assembled pre-vial using the depositor's predicted sequence as the reference sequence. The complete plasmid sequence and map are provided on the BEI Resources webpage.

/Kenneth R. Crawford/

Kenneth R. Crawford

06 AUG 2024

Lead Technical Writer or designee, ATCC Federal Solutions

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