Simian Immunodeficiency Virus Infectious Molecular Clone pSIVagmVer9063-2

Catalog No. HRP-20100
This reagent is the tangible property of the U.S. Government.

Product Description:
HRP-20100 is a full-length, infectious molecular clone of the simian immunodeficiency virus (SIV), SIVagmVer9063-2. SIVagmVer9063-2 is isolated from a pig-tailed macaque (PT63) that developed AIDS after inoculation with a virus isolate derived from naturally infected vervet species of African green monkey (AGM90) and is available through NIH HIV Reagent Program (HRP-20132). The plasmid encodes full-length, replication-competent virus in a pUC19 vector backbone. The ampicillin resistance gene, aph, provides transformant selection through ampicillin resistance in Escherichia coli (E. coli). The pSIVagmVer9063-2 insert is approximately 9810 base pairs and the resulting size of the plasmid is approximately 12,000 base pairs. The purified plasmid DNA was provided vialled in TE buffer (10 mM Tris-HCl, 1 mM EDTA).

Lot: 70051545
Receipt Date: 30SEP2021

<table>
<thead>
<tr>
<th>TEST</th>
<th>SPECIFICATIONS</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Next-Generation DNA Sequencing</td>
<td>~ 9810 base pairs</td>
<td>9816 base pairs¹</td>
</tr>
<tr>
<td>Genotypic Analysis</td>
<td>≥ 99% sequence identity to depositor’s sequence</td>
<td>99.9% sequence identity to depositor’s sequence</td>
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<tr>
<td>Sequencing of pSIVagmVer9063-2 insert (~ 9810 base pairs)</td>
<td></td>
<td></td>
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<tr>
<td>Concentration by Qubit® Measurement</td>
<td>≥ 2 µg/mL</td>
<td>1.02 µg in 100 µL per vial (10 µg/mL)</td>
</tr>
<tr>
<td>Amount per Vial</td>
<td>Report results</td>
<td>1.02 µg per vial</td>
</tr>
<tr>
<td>OD260/OD280 Ratio (pre vial)</td>
<td>1.7 to 2.1</td>
<td>1.9</td>
</tr>
<tr>
<td>Effective Bacterial Transformation</td>
<td>≥ 50 colonies/ng</td>
<td>419 colonies/ng</td>
</tr>
<tr>
<td>Invitrogen™ MAX Efficiency™ Stbl2™ E. coli</td>
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</tbody>
</table>

¹The sequence was assembled pre-vial using the depositor’s predicted sequence (L40990.1) as the reference sequence. The insert sequence is provided on the NIH HIV Reagent Program webpage.

/Ken Crawford/
Ken Crawford
07 JUL 2023

Lead Technical Writer, ATCC Federal Solutions

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