Panel of Full-Length Transmitted/Founder (T/F) Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clones

Catalog No. HRP-11919
Lot No. 70057115

For research use only. Not for use in humans.

Contributor:
Dr. John C. Kappes, Associate Professor, Department of Medicine, University of Alabama at Birmingham (UAB), Birmingham, Alabama, USA

Manufacturer:
NIH HIV Reagent Program

Product Description:
HRP-11919 is a panel of 10 human immunodeficiency virus type 1 (HIV-1) subtype B full-length transmitted/founder (T/F) infectious molecular clones. Using a mathematical model of HIV-1 sequence evolution in acute clinical infection and an experimental strategy based on single genome amplification (SGA) of full-length HIV-1 RNA, followed by direct sequencing of uncloned SGAs, the complete nucleotide sequences of viruses responsible for establishing productive clinical infection have been deduced. From this, T/F single genome amplicons generated from either genomic HIV-1 RNA or proviral DNA originating in the United States were used to construct ten subtype B T/F infectious molecular clones. The vector used is either pBR322 or pCR-XL-TOPO, depending on the clone. Information on each molecular clone in this panel is shown in Table 1.

For sequence information for each molecular clone in this panel, please refer to the NIH HIV Reagent Program webpage for each molecular clone.

Note: Plasmids were propagated in STBL3 cells and can be propagated in STBL2 or other competent cells and grown at 37°C. Larger plasmids may benefit from growth at 30°C.

Material Provided:
HRP-11919 is a set of 10 vials, each containing approximately 5 µg/vial of dried, purified DNA stabilized in DNAstable® Plus. The subject identifier is also provided. Please see the notice for additional information and the protocol for reconstitution of dried DNA reagents on the NIH HIV Reagent Program webpage.

Packaging/Storage:
HRP-11919 was packaged aseptically in screw-capped plastic cryovials. The product should be stored at room temperature in a dry storage cabinet or in a moisture barrier bag.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through the NIH HIV Reagent Program, NIAID, NIH: Panel of Full-Length Transmitted/Founder (T/F) Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clones, HRP-11919, contributed by Dr. John C. Kappes.”

Biosafety Level: 1

Disclaimers:
You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the NIH HIV Reagent Program Material Transfer Agreement (MTA). The MTA is available on our Web site at www.hivreagentprogram.org.

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References:

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Table 1: Panel of Full-Length Transmitted/Founder (T/F) HIV-1 Infectious Molecular Clones (IMCs)

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Lot Number</th>
<th>IMC name</th>
<th>Subject Identifier</th>
<th>Gender of subject</th>
<th>*Route of Transmission</th>
<th>Cloning Plasmid</th>
<th>3' LTR Structure</th>
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<tr>
<td>ARP-11739</td>
<td>150192</td>
<td>pWITO.c/2474</td>
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<td>HSX</td>
<td>pCR-XL-TOPO</td>
<td>U3-R-U5</td>
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<td>pBR322</td>
<td>U3-R-U5</td>
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<td>pBR322</td>
<td>U3-R-U5</td>
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</table>

*HSX = Heterosexual  
MSM = Men who have sex with men