



DATA SHEET

For research use only. Not for use in humans.

Reagent:	Panel of Full-Length Transmitted/Founder (T/F) Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clones
Catalog Number:	ARP-11919
Lot Number:	180439
Release Category:	C
Provided:	ARP-11919 is a set of 10 vials, each containing approximately 5 micrograms per vial of dried, purified DNA stabilized in DNastable®Plus. Please see the notice for additional information and the protocol for reconstitution of dried DNA reagents on the NIH HIV Reagent Program webpage.
Description:	<p>ARP-11919 is a panel of 10 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 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. Please refer to the Panel Information Table on the NIH HIV Reagent Program webpage for clone details and sequence files.</p> <p><u>Note:</u> Plasmids can be propagated in STBL2 or other competent cells and grown at 37°C. Larger plasmids may benefit from growth at 30°C.</p>
Recommended Storage:	Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.
Contributor:	Dr. John C. Kappes
References:	<p>Keele, B. F., et al. "Identification and Characterization of Transmitted and Early Founder Virus Envelopes in Primary HIV-1 Infection." <u>Proc. Nat. Acad. Sci. USA</u> 105 (2008): 7552-7557. PubMed: 18490657.</p> <p>Salazar-Gonzalez, J. F., et al. "Genetic Identity, Biological Phenotype, and Evolutionary Pathways of Transmitted/Founder Viruses in Acute and Early HIV-1 Infection." <u>J. Exp. Med.</u> 206 (2009): 1273-1289. PubMed: 19487424.</p>
Citation:	Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: Panel of Full-Length Transmitted/Founder (T/F) Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clones, ARP-11919, contributed by Dr. John C. Kappes." Also include the references cited in any publications.
Biosafety Level: 1	Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. <u>Biosafety in Microbiological and Biomedical Laboratories</u> . 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm .
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