



Product Information Sheet for HRP-11919

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.^{1,2} Information on each molecular clone in this panel is shown in Table 1.^{1,2}

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

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. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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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NIH HIV Reagent Program

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HRP-11919_26JAN2023

Page 1 of 3



Product Information Sheet for HRP-11919

Scientists at for-profit institutions or who intend commercial use of this reagent must contact The UAB Research Foundation, Email: dhall@uab.edu, and specify the name of the reagent and a description of the intended use, before the reagent can be released.

References:

1. Keele, B. F., et al. "Identification and Characterization of Transmitted and Early Founder Virus Envelopes in Primary HIV-1 Infection." *Proc. Nat. Acad. Sci. USA* 105 (2008): 7552-7557. PubMed: [18490657](#).
2. Salazar-Gonzalez, J. F., et al. "Genetic Identity, Biological Phenotype, and Evolutionary Pathways of Transmitted/Founder Viruses in Acute and Early HIV-1 Infection." *J. Exp. Med.* 206 (2009): 1273-1289. PubMed: [19487424](#).

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HRP-11919_26.JAN2023

Page 2 of 3

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

Catalog Number	Lot Number	IMC name	Subject Identifier	Gender of subject	*Route of Transmission	Cloning Plasmid	3' LTR Structure
ARP-11739	150192	pWITO.c/2474	WITO4160	Male	HSX	pCR-XL-TOPO	U3-R-U5
ARP-11740	150257	pCH040.c/2625	700010040	Male		pCR-XL-TOPO	U3-R
ARP-11856	150265	pCH058.c/2960	700010058	Male		pCR-XL-TOPO	U3-R
ARP-11742	150258	pCH077.t/2627	700010077	Male		pCR-XL-TOPO	U3-R-U5
ARP-11743	150259	pCH106.c/2633	700010106	Male		pCR-XL-TOPO	U3-R-U5
ARP-11744	150260	pRHPA.c/2635	RHPA4256	Female	HSX	pCR-XL-TOPO	U3-R-U5
ARP-11745	150261	pTHRO.c/2626	THRO4156	Male	MSM	pCR-XL-TOPO	U3-R-U5
ARP-11746	150262	pREJO.c/2864	REJO4541	Male	HSX	pBR322	U3-R-U5
ARP-11747	150263	pTRJO.c/2851	TRJO4551	Male	MSM	pBR322	U3-R-U5
ARP-11748	150264	pSUMA.c/2821	SUMA0874	Male	MSM	pBR322	U3-R-U5

*HSX = Heterosexual

MSM = Men who have sex with men