

**Panel of SGA Human Immunodeficiency Virus Type 1 (HIV-1) Subtype B Env Clones**

**Catalog No. HRP-11663**

**Lot No. 70074725**

**For research use only. Not for use in humans.**

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

HRP-11663 contains a panel of 20 SGA human immunodeficiency virus type 1 (HIV-1) subtype B Env molecular clones. Env clones representing transmitted and early founder HIV-1 subtype B were isolated from patient plasma during acute HIV-1 infection (RNA positive, Western blot negative). The *rev/env* genes were PCR amplified by single genome amplification (SGA) followed by directional cloning into pcDNA3.1D. Clone sequences were confirmed to match the consensus sequence of all SGA-derived amplicons and represent the transmitted or early "founder" viral sequence. The *rev/env* clones were transfected with delta *env* HIV-1 SG3 in 293-T cells and the pseudotyped virions were found to mediate entry into TZM-bl cells utilizing CD4 and CCR5.<sup>1</sup> Sequence information is available in GenBank (see Table I for relevant accession numbers). Applications include phenotypic characterization, assessment of neutralization sensitivity and structure-function analyses of the transmitted *env*.

These molecular clones can also be ordered individually. Please refer to Table I for the characterization and catalog number of each Env molecular clone.

Note: HRP-11663 can be expanded in STBL2 or other competent cells and grown at 37°C. Larger plasmids may benefit from growth at 30°C.

**Material Provided:**

HRP-11663 is a set of 20 vials, each containing approximately 20 µg/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 BEI Resources webpage.

**Packaging/Storage:**

HRP-11663 was packaged aseptically in 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 BEI Resources, NIAID, NIH: Panel of SGA Human Immunodeficiency Virus Type 1 (HIV-1) Subtype B Env Clones, HRP-11663."

**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 (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

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**References:**

1. Keele, B. F., et al. "Identification and Characterization of Transmitted and Early Founder Virus Envelopes in Primary HIV-1 Infection." Proc Natl Acad Sci U S A. 105 (2008): 7552-7557. PubMed: 18490657.

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