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DATA SHEET

Reagent:	Panel of SGA HIV-1 Subtype B Env Clones
Catalog Number:	11663
Lot Number:	180438
Release Category:	C
Provided:	20 vials per set. Each vial contains 20 µg of dried purified DNA stabilized in DNAstable *PLUS*. See attached file for list of included clones.
Cloning Vector:	pcDNA3.1D Directional Topo Vector Ampicillin resistant
Cloning Site:	TOPO TA cloned
GenBank:	See attached file below
Host Strain:	Plasmids can be propagated in STBL2 cells and grown at 37°C. Larger plasmids may benefit from growth at 30°C. This construct may also be grown in other competent cells.
Description:	A panel of SGA HIV-1 subtype B *Env* molecular clones.
Special Characteristics:	Env clones of transmitted and early founder HIV-1 subtype B in primary HIV-1 infection (RNA positive, Western blot negative). HIV-1 subtype B molecular rev/env clones derived from patient plasma during acute HIV-1 infection. 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. Sequence information is available in GenBank (see Table for relevant accession numbers). Applications: Phenotypic, neutralization susceptibility and structure-function analyses of the transmitted env.

Table 1. HIV-1 Subtype B Panel of SGA Env clones

Contributor provided sequence information.

NOTE: These clones are available as a panel but they can also be ordered individually by catalog number.

This reagent is currently being provided as dried purified DNA stabilized in DNAstable *PLUS*. Please see the notice for additional information and the protocol for reconstitution of dried DNA reagents. Dried DNA Notice

Recommended Storage: Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.

Contributor: Drs. Beatrice H. Hahn, Brandon F. Keele, George M. Shaw

References:

Keele, B. F., Giorgi, E. E., Salazar-Gonzalez, J. F., Decker, J. M., Pham, K. T., Salazar, M. G., . . . Shaw, G. M. (2008). Identification and characterization of transmitted and early founder virus envelopes in primary HIV-1 infection. Proc Natl Acad Sci U S A, 105(21), 7552-7557. doi:10.1073/pnas.0802203105 PUBMED

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Panel of SGA HIV-1 Subtype B Env Clones from Drs. Beatrice H. Hahn, Brandon F. Keele and George M. Shaw (cat# 11663)." Also include the references cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact The UAB Research Foundation at the following email address: innovation@uab.edu, before the reagent can be released.

Last Updated: November 16, 2020