



NIH AIDS Reagent Program

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DATA SHEET

Reagent: Panel of SGA HIV-1 Subtype B Env Clones

Catalog Number: 11663

Lot Number: 160309

Release Category: C

Provided: 20 vials per set. Each vial contains 20 µg of plasmid DNA at 0.5 µg/µl in TE buffer. 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.

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

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.

Recommended Storage:	Keep the reagent at -20°C or lower. Avoid freeze-thaw cycles as reagent degradation may result.
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." Also include the references cited above in any publications. Scientists at for-profit institutions or who intend commercial use of Release Category C Reagents, must contact Hayes A. Lowe, J.D., UAB Research Foundation, The Office of Intellectual Property Management, AB 1120G, 1530 3rd Ave. S, Birmingham, AL 35294-0111, Tel: 205-972-0843 Fax: 205-934-5427, Email: halowe@uab.edu, before the reagent(s) can be released.
Last Updated:	August 27, 2017

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