



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: 1

Release Category: C

Provided: 1 vial each, containing 20 µg (0.5 µg/µl) of plasmid DNA in TE buffer. See Table for list of included clones.

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

Cloning Vector: pcDNA3.1D Directional Topo Vector.

Cloning Site: The HIV-1 rev/env cassette was ligated into the pcDNA3.1D Directional Topo vector (Invitrogen Life Technologies) and transformed into TOP10 competent bacteria.

GenBank: See Table.

Description: Env clones of transmitted and early founder HIV-1 subtype B in primary HIV-1 infection (RNA positive, Western blot negative). HIV-1 clade 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. The antibiotic resistance is ampicillin and the sequence information is available in GenBank (see Table for relevant accession numbers).

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.

Special Characteristics: Applications: Phenotypic, neutralization susceptibility and structure-function analyses of the transmitted env.

[Table 1. HIV-1 Subtype B Panel of SGA Env clones](#)

[Click here to view sequences for individual clones](#)

Recommended Storage: -80°C

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

References: Keele, B.F. et al. Identification and Characterization of Transmitted and Early Founder Virus Envelopes in Primary HIV-1 Infections, Proc. Natl. Acad. Sci., USA, 105: 7552-7557 (2008).

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH from Drs. Beatrice H. Hahn, Brandon F. Keele and George M. Shaw: HIV-1 Subtype B Panel of SGA gp160 Env Clones." 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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