



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

Reagent: HIV-1 clone VB105.J10

Catalog Number: 12360

Lot Number: 130141

Release Category: C

Provided: 7.8 µg of dried purified DNA stabilized in DNASTable *PLUS*

Cloning Vector: pcDNA3.1D/V5-His TOPO©

Cloning Site: The HIV-1 env/rev cassette was directly cloned into the cloning site of pcDNA3.1D/V5-His TOPO© expression vector, in the correct orientation with the CMV promoter.

GenBank: [EU521729.1](#)

Host Strain: TOP10 *E. coli* cells

Description: A PCR fragment containing full-length *env* gene was derived from the genomic DNA of infected PBMC. The env/rev cassette was cloned into pcDNA3.1D/V5-His TOPO© expression vector by a directional cloning approach. A single transformed ampicillin resistant *E. coli* colony was selected and expanded.

Special Characteristics: Plasmid Expansion: It is recommended that this plasmid be expanded using TOP10 *E. coli* Competent Cells in LB medium at 37°C.
The clone represents subtype C *env* gene from an AIDS patient. The clone expresses a functional env/rev cassette and can be used to generate envelope pseudotyped viruses. The env clone was found to exploit several coreceptors in addition to CCR5 and CXCR4.

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

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.

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:

Dr. Jayanta Bhattacharya

References:

Gharu L, Ringe R, Pandey S, Paranjape R, Bhattacharya J. HIV-1 clade C env clones obtained from an Indian patient exhibiting expanded coreceptor tropism are presented with naturally occurring unusual amino acid substitutions in V3 loop. *Virus Research* (2009), 144(1-2):306-14.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH from Dr. Jayanta Bhattacharya: Cat#12360; HIV-1 clone VB105.J10". Also include the reference cited above in any publications.

This reagent is not for commercial use.

Last Updated:

September 20, 2017

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.