



## NIH AIDS Reagent Program

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### DATA SHEET

**Reagent:** HIV-1 clone VB105.J10

**Catalog Number:** 12360

**Lot Number:** 1

**Release Category:** C

**Provided:** 20 µl at 395ng/µl purified plasmid DNA in Tris HCl buffer.

**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.

**Gene Bank:** [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.

**Recommended Storage:** -80°C

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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.

**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:** August 15, 2013

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