



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 clone 4.J22

Catalog Number: 12353

Lot Number: 1

Release Category: C

Provided: 20 µl at 247ng/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: [EU908219.1](#)

Host Strain: TOP10 *E. coli* cells

Description: A PCR fragment containing full-length HIV-1 *env* gene was derived from the genomic DNA of the patient's 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 *env* gene from a subject with recent subtype C infection (heterosexual transmission). The clone expresses a functional env/rev cassette and can be used to generate pseudotyped viruses that use CCR5 as a viral-coreceptor.

Recommended Storage: -80°C

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: Rajesh Ringe, Madhuri Thakar, Jayanta Bhattacharya. Variations in autologous neutralization and CD4 dependence of b12 resistant HIV-1 clade C env clones obtained at different time points from antiretroviral naïve Indian patients with recent infection. *Retrovirology* **7**:76, 2010.

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# 12353: HIV-1 clone 4.J22." 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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