



## NIH AIDS Reagent Program

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### DATA SHEET

**Reagent:** HIV-1 clone 4.J22

**Catalog Number:** 12353

**Lot Number:** 130134

**Release Category:** C

**Provided:** 7 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:** [EU908219.1](#)

**Host Strain:** Plasmids can be propagated in STBL2 cells and grown at 37°C. Larger plasmids may benefit from growth at 30°C.

**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:** This construct is 8651 bp including the insert.

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.

[Sequence file lot 130134](#)

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 [use of dried DNA reagents](#). [Dried DNA Notice](#)

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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.

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:**

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 naive 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:**

February 13, 2019

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