



## 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 AC10.29 Env Expression Vector (AC10.0, clone 29 (SVPB13))

**Catalog Number:** 11024

**Lot Number:** 130123

**Release Category:** B

**Provided:** 5 µg of dried purified DNA stabilized in DNASTable *PLUS*

**Cloning Vector:** pcDNA3.1D/V5-His TOPO©. The size of the cloning vector including the insert is 8626 bp.

**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. The size of the insert is 3112 bp.

**GenBank:** AY835446

**Description:** A PCR fragment containing full-length env and rev genes was derived from the genomic DNA of infected PBMC. Original virus was obtained by PBMC co-culture. 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. Recombinant plasmid carries resistance genes for ampicillin and neomycin.

**Special Characteristics:** Plasmid Expansion: It is recommended that this plasmid be expanded using DH5a™ Competent Cells in LB medium at 34°C. The clone represents env/rev sequences from a subject with acute subtype B infection (male-male transmission in the USA). The clone expresses a functional env/rev cassette and can be used to generate pseudotyped infectious virions that use CCR5 as the viral co-receptor. AC10.0.29 Env containing pseudovirions are included in a standard virus neutralization panel for subtype B strains (SVPB13).

[Contributor provided sequence information](#)

[Plasmid map and sequence file lot 130123](#)

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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.

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

This clone is also available as a member of a panel set, see catalog #11227. [Click here to see the table of individual reagents for this reference panel.](#)

<b>Recommended Storage:</b>	Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.
<b>Contributor:</b>	Dr. David Montefiori, Dr. Feng Gao and Dr. Ming Li.
<b>References:</b>	Li, M., Gao F., Mascola J.R., Stamatatos L., Polonis V.R., Koutsoukos M., Voss G., Goepfert P., Gilbert P., Greene K.M., Bilaska M., Kothe D.L., Salazar-Gonzalez J.F., Wei X., Decker J.M., Hahn B.H., and Montefiori D.C. Human immunodeficiency virus type 1 env clones from acute and early subtype B infections for standardized assessments of vaccine-elicited neutralizing antibodies. <i>J. Virology</i> <b>79</b> (16): 10108-10125, 2005.
<b>NOTE:</b>	Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH from Dr. David Montefiori and Dr. Feng Gao: HIV-1 AC10.29 Env Expression Vector (AC10.0, clone 29 (SVPB13))." Also include the reference cited above in any publications.
<b>Last Updated:</b>	October 18, 2017

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