



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 Env Expression Vector (PVO, clone 4 (SVPB11))

Catalog Number: 11022

Lot Number: 050735

Release Category: B

Provided: 1 vial containing 20 µg of plasmid DNA in TE buffer (0.5 mg/ml)

Cloning Vector: pcDNA3.1D/V5-His TOPO©. The size of the cloning vector including the insert is 8633 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 3119 bp.

GenBank: AY835444

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. Sequence information is available upon request.

[Click here to see the sequence file.](#)

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 Italy). 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. PVO.4 Env containing pseudovirions are included in a standard virus neutralization panel for subtype B strains (SVPB11).

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.](#)

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.

Recommended Storage: -80°C.

Contributor: Dr. David Montefiori, Dr. Feng Gao and Dr. Ming Li.

References: Li, M., Gao F., Mascola J.R., Stamatatos L., Polonis V.R., Koutsoukos M., Voss G., Goepfert P., Gilbert P., Greene K.M., Bilka 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. *J. Virology* **79**(16): 10108-10125, 2005.

NOTE: 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 Env Expression Vector (PVO, clone 4 (SVPB11))." Also include the reference cited above in any publications.

Last Updated: July 26, 2018

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