DATA SHEET

For research use only. Not for use in humans.

Reagent: Vector pcDNA3.1 D/V5-His TOPO© Expressing Human Immunodeficiency Virus Type 1 (HIV-1) Env [PVO, clone 4 (SVPB11)]

Catalog Number: ARP-11022

Lot Number: 140236

Release Category: B

Provided: Each vial of ARP-11022 contains approximately 5 micrograms of dried, purified DNA stabilized in DNAstable®Plus. Please see the notice for additional information and the protocol for reconstitution of dried DNA reagents on the NIH HIV Reagent Program webpage.

Description: ARP-11022 is an expression vector of a PCR fragment containing full-length *env* and *rev* genes derived from the genomic DNA of infected peripheral blood mononuclear cells (PBMCs). Original virus was obtained by PBMC co-culture. The *env/rev* cassette was cloned into the pcDNA3.1D/V5-His TOPO© expression vector by a directional cloning approach. A single transformed ampicillin-resistant *Escherichia coli* colony was selected and expanded.

ARP-11022 is approximately 8765 base pairs including the insert, and carries ampicillin and neomycin resistance genes (GenBank: AY835444). The size of the insert is approximately 3119 base pairs. The clone represents *env/rev* sequences from a subject with an 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).

ARP-11022 is also available as a member of a panel set (ARP-11227).

Note: Plasmids can be propagated in STBL2 cells and grown at 37°C. Larger plasmids may benefit from growth at 30°C. This construct may also be grown in other competent cells.

Recommended Storage: Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.

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

References:

Li, M., et al. "Human Immunodeficiency Virus Type 1 *env* Clones from Acute and Early Subtype B Infections for Standardized Assessments of Vaccine-Elicited Neutralizing Antibodies." J. Virol. 79 (2005): 10108-10125. PubMed: 16051804.

Citation: Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: Vector pcDNA3.1 D/V5-His TOPO© Expressing Human Immunodeficiency Virus Type 1 (HIV-1) Env [PVO, clone 4 (SVPB11)], ARP-11022, contributed by Dr. David Montefiori, Dr. Feng Gao and Dr. Ming Li."

Biosafety Level: 1 Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

Disclaimers: You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the NIH HIV Reagent Program Material Transfer Agreement (MTA). The MTA is available on our Web site at www.hivreagentprogram.org.

NIH HIV Reagent Program
www.hivreagentprogram.org

E-mail: contact@HIVReagentProgram.org
Tel: 888-487-0727
Fax: 703-365-2898

While the NIH HIV Reagent Program uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to the NIH HIV Reagent Program are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

ATCC® is a trademark of the American Type Culture Collection.

Support Provided by NIAID

NIH HIV Reagent Program
www.hivreagentprogram.org

E-mail: contact@HIVReagentProgram.org
Tel: 888-487-0727
Fax: 703-365-2898