



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 WITO4160 Env Expression Vector (pWITO4160 clone 33 (SVPB18))

Catalog Number: 11033

Lot Number: 050738

Release Category: C

Provided: 20 µg plasmid DNA/vial (0.5 mg/ml)

Cloning Vector: pcDNA3.1/V5-His© TOPO®. The size of the cloning vector including the insert is 8476 bp.

Cloning Site: The env/rev cassette was TA cloned into pcDNA3.1/V5-His© TOPO® and colonies were screened to obtain env/rev clones in the correct orientation with the CMV promoter. The size of the insert is 2953 bp.

GenBank: AY835451

Host Strain: MAX Efficiency STBL2™

Description: A PCR fragment containing full-length env and rev genes was derived from plasma virion-associated RNA from a subject acutely infected with a clade B virus by reverse transcription and nested PCR amplification procedures. The env/rev cassette was cloned into the pcDNA3.1/V5-His© TOPO® expression vector. A single transformed ampicillin-resistant *E. coli* colony was selected and expanded. Sequence information is available upon request.

Special Characteristics: Plasmid Expansion: This plasmid can be expanded using MAX Efficiency STBL2™ Competent Cells or DH5α™ Competent Cells in LB medium at 34°C. The clone represents env/rev cassette from a subject with acute subtype B infection (female to male transmission). The clone expresses a functional env/rev cassette and can be used to generate pseudotyped infectious virions. pWITO4160.33 Env containing pseudovirions are included in a standard virus neutralization panel for subtype B strains (SVPB18).

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: Drs. B. H. Hahn and J. F. Salazar-Gonzalez

References: Li, M., Gao F., Mascola J.R., Stamatatos L., Polonis V.R., Koutsoukos M., Voss G., Goepfert P., Gilbert P., Greene K.M., Bilska 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 subtypeB 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 Drs. B. H. Hahn and J. F. Salazar-Gonzalez: HIV-1 WITO4160 Env Expression Vector (pWITO4160 clone 33 (SVPB18))." Also include the reference cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact Hayes A. Lowe, J.D., UAB Research Foundation, The Office of Intellectual Property Management, AB 1120G, 1530 3rd Ave. S, Birmingham AL 35294-0111, Tel: 205-975-0843 Fax: 205-934-5427, email: halowe@uab.edu, before the reagent can be released.

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