



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: Panel of HIV-1 Subtype B Env Clones

Catalog Number: 11227

Lot Number: 160310

Release Category: C

Provided: 13 vials per set. Each vial contains 5 µg of dried purified DNA stabilized in DNASTable PLUS. See attached file for a list of included clones.

Host Strain: 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.

Description: A panel of HIV-1 Subtype B *Env* molecular clones.

Special Characteristics: This reference panel was designed for use as Env-pseudotyped viruses to facilitate standardized Tier 2/3 assessments of neutralizing antibody responses. When co-transfected with an env-deleted backbone plasmid (e.g. pSG3^{Δenv}, cat #11051, included in the Panel) in 293T cells, these plasmids produce Env-pseudotyped viruses that are capable of a single round of infection in target cells such as TZM-bl cells (cat #8129, not included in the Panel).

The pseudoviruses exhibit a neutralization phenotype that is typical of most primary HIV-1 isolates. Notably, no clone is unusually sensitive or resistant to neutralization.

The gp160 genes were cloned from sexually acquired, acute/early infections and comprise a wide spectrum of genetic, antigenic and geographic diversity within subtype B (Li M, et al. *J Virology* **79** (16):10108, 2005). These clones use CCR5 as the co-receptor.

[Click here to see the table of individual reagents for this reference panel.](#)

[Click here to see the table of lot numbers, buffers, and concentrations of each DNA.](#)

NOTE: These clones are available as a panel but they can also be ordered individually by catalog number.

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.

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.

PLUS. Please see the notice for additional information and the protocol for 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:	See table in provided section.
References:	Li, M., Gao, F., Mascola, J. R., Stamatatos, L., Polonis, V. R., Koutsoukos, M., . . . Montefiori, D. C. (2005). Human immunodeficiency virus type 1 env clones from acute and early subtype B infections for standardized assessments of vaccine-elicited neutralizing antibodies. <i>J Virol</i>, 79(16), 10108-10125. doi:10.1128/JVI.79.16.10108-10125.2005 PUBMED Wei, X., Decker, J. M., Liu, H., Zhang, Z., Arani, R. B., Kilby, J. M., . . . Kappes, J. C. (2002). Emergence of resistant human immunodeficiency virus type 1 in patients receiving fusion inhibitor (T-20) monotherapy. <i>Antimicrob Agents Chemother</i>, 46(6), 1896-1905. PUBMED Wei, X., Decker, J. M., Wang, S., Hui, H., Kappes, J. C., Wu, X., . . . Shaw, G. M. (2003). Antibody neutralization and escape by HIV-1. <i>Nature</i>, 422(6929), 307-312. doi:10.1038/nature01470 PUBMED
NOTE:	Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH from (contributors): (name of clone)." 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.
Last Updated:	August 07, 2017

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