DATA SHEET

For research use only. Not for use in humans.

Reagent: Panel of Human Immunodeficiency Virus Type 1 (HIV-1) Subtype C Env Clones

Catalog Number: ARP-11326

Lot Number: 180132

Release Category: C

Provided: Each vial of ARP-11326 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-11326 is a panel of 12 HIV-1 subtype C Env expression vectors. This subtype C reference panel was designed for use as Env-pseudotyped viruses to facilitate standardized Tier 2/3 assessments of HIV-1-specific neutralizing antibodies. The current lot 180132 does not contain ARP-11308, and hence contains 11 vials. Information on each molecular clone in this panel is provided in NIH HIV Reagent Program webpage.

Special characteristics: When co-transfected with an env-deleted backbone plasmid in 293T cells, these plasmids produce Env-pseudotyped viruses that are capable of a single round of infection in TZM-bl cells (ARP-8129). The Env-pseudotyped viruses 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 C (Li M, et al.). These clones use CCR5 as co-receptor. They can be propagated in STBL2 or other competent 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: Drs. D. Montefiori, F. Gao, C. Williamson, S. Abdool Karim, G. Ramjee., B. H. Hahn, Y. Li, J. F. Salazar-Gonzalez, E. Hunter, C. Derdeyn, L. Morris, K. Mlisana.

References:

Li, M., et al. "Genetic and Neutralization Properties of Subtype C Human Immunodeficiency Virus Type 1 Molecular Env Clones from Acute and Early Heterosexually Acquired Infections in Southern Africa." J. Virol. 80(2006): 11776-11790. PubMed: 16971434.

Derdeyn, C. A., et al. "Envelope-constrained Neutralization-sensitive HIV-1 after Heterosexual Transmission." Science. 303 (2004): 2019-2022. PubMed: 15044802.

Williamson, C., et al. "Characterization and Selection of HIV-1 Subtype C Isolates for Use in Vaccine Development." AIDS. Res. Hum. Retroviruses. 19 (2003): 133-144. PubMed: 12639249.

Citation: Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: Panel of Human Immunodeficiency Virus Type 1 (HIV-1) Subtype C Env Clones, ARP-11326, contributed by Drs. D. Montefiori, F. Gao, C. Williamson, S. Abdool Karim, G. Ramjee., B. H. Hahn, Y. Li, J. F. Salazar-Gonzalez, E. Hunter, C. Derdeyn, L. Morris, K. Mlisana."

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.

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Note:

The clone Du422 (ARP-1308) is submitted to the NIH AIDS Reagent Program under release category C. All requestors of this clone must complete the "Addendum for Du422 Clone 1 (SVPC5)" form before the reagent can be released. Queries can be directed to The Intellectual Property Manager, UCT Innovation, University of Cape Town, Private Bag, Rondebosch 7701, South Africa, Tel: +27-21-650-2425, Fax: +27-21-650-5778.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact 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: innovation@uab.edu, before the reagent can be released.

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