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DATA SHEET

Reagent: HIV-1 NL4-3 BaL Infectious Molecular Clone (p20-36)

Catalog Number: 11442

Lot Number: 060925

Release Category: C

Provided: 10 µl/tube of purified plasmid DNA (0.1 µg/µl)

Cloning Vector: pUC18

Host Strain: XL-10 Gold (Stratagene), JM109

Description: This clone is a full length HIV-1 infectious molecular clone containing the V3 envelope region of Ba-L in an NL4-3 background. The vector encodes beta-lactamase. Cloning is described in *Virology* **79**:4828-4837, 2005.

Special Characteristics: This clone was used in conjunction with clones p81A-4 (Cat#11440), p21-85 (cat#11441) and p49-5 (cat#11389) to analyze the effects of the V1 and V2 envelope regions on entry and spread in macrophages (*Virology* **213**:70-79, 1995; *J. Virol.* **79**:4828-4837, 2005).

Vector Size: Size of vector and insert is: 13.7 kbp

Recommended Storage: Keep at -20°C or lower. Avoid freeze-thaw cycles as reagent degradation may result.

Contributor: Dr. Bruce Chesebro

References: Toohey K, Wehrly K, Nishio J, Perryman S, Chesebro B. Human immunodeficiency virus envelope V1 and V2 regions influence replication efficiency in macrophages by affecting virus spread. *Virology*. **213**:70-9, 1995. [[Abstract](#)] [[PDF](#)]

B Chesebro, J Nishio, S Perryman, A Cann, W O'Brien, I S Chen, and K Wehrly.
Identification of human immunodeficiency virus envelope gene sequences influencing

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.

viral entry into CD4-positive HeLa cells, T-leukemia cells, and macrophages. *J. Virol.* **65**: 5782-5789, 1991. [\[Abstract\]](#) [\[PDF\]](#)

B Chesebro, K Wehrly, J Nishio, and S Perryman. Macrophage-tropic human immunodeficiency virus isolates from different patients exhibit unusual V3 envelope sequence homogeneity in comparison with T-cell-tropic isolates: definition of critical amino acids involved in cell tropism. *J. Virol.* **66**: 6547-6554, 1992 . [\[Abstract\]](#) [\[PDF\]](#)

Brandon L. Walter, Kathy Wehrly, Ronald Swanstrom, Emily Platt, David Kabat, and Bruce Chesebro. Role of Low CD4 Levels in the Influence of Human Immunodeficiency Virus Type 1 Envelope V1 and V2 Regions on Entry and Spread in Macrophages. *J. Virol.* **79**: 4828-4837, 2005. [\[Abstract\]](#) [\[Full Text\]](#) [\[PDF\]](#)

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 NL4-3 BaL Infectious Molecular Clone (p20-36) (Cat#11442) from Dr. Bruce Chesebro." Also include the references cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact Dr. Bruce Chesebro at email address bchesebro@niaid.nih.gov and specify in the email the name of the reagent and a description of the intended use of the reagent.

Last Updated:

August 02, 2018

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