



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 NL4-3 Infectious Molecular Clone (pNL4-3)

Catalog Number: 114

Lot Number: 070019

Release Category: C

Provided: 5µg purified plasmid DNA (1µg/µl).

GenBank: AF324493

Description: Full-length, replication and infection competent chimeric DNA. The 5' *SmaI*-*EcoRI* fragment of proviral NY5 (5' *SmaI* in flanking sequences to 3' *EcoRI*) and the 3' fragment of proviral LAV (5' *EcoRI* to 3' *NruI* in flanking sequences) were blunt-end cloned into pUC18 at the *PvuII* site after removal of polylinker sites.

Special Characteristics: Upon transfection this clone directed the production of infectious virus particles in a wide variety of cells. The progeny, infectious virions, were synthesized in mouse, mink, monkey, and several non-T cell lines, indicating the absence of any intracellular obstacle to viral RNA or protein production or assembly. Source of Pro Virus: NY5 (5') and LAV (3') cloned directly from genomic DNA.

References:
[Sequence File](#)
[Plasmid Map](#)
[Organization and Restriction Sites](#)

Recommended Storage: -70°C

Contributor: Dr. Malcolm Martin.

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.

References: Adachi A, Gendelman HE, Koenig S, Folks T, Willey R, Rabson A, Martin MA. Production of acquired immunodeficiency syndrome-associated retrovirus in human and nonhuman cells transfected with an infectious molecular clone. *J Virol* **59**:284-291, 1986.

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 Infectious Molecular Clone (pNL4-3) from Dr. Malcolm Martin." Also include the reference cited above in any publications. **Scientists at for-profit institutions or who intend commercial use of this reagent must contact the NIH Office of Technology Transfer, Email: NIAIDAIDSReagent@niaid.nih.gov, before the reagent can be released. Please specify the name and a description of the intended use of the reagent.**

Last Updated: August 21, 2017

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