



## 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:** 130070

**Release Category:** C

**Provided:** 5µg purified plasmid DNA (0.88 µg/µl).

**Cloning Vector:** pUC18

**Cloning Site:** The 5' *Sma*I-*Eco*RI fragment of proviral NY5 (5' *Sma*I in flanking sequences to 3' *Eco*RI) and the 3' fragment of proviral LAV (5' *Eco*RI to 3' *Nru*I in flanking sequences) were blunt-end cloned into pUC18 at the *Pvu*II site after removal of polylinker sites.

**GenBank:** AF324493

**Host Strain:** HB101

**Description:** Full-length, replication and infection competent chimeric DNA.

**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](#)\*Updated 14May10

[Plasmid Map](#)

[Organization and Restriction Sites](#)

[QC data](#)

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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:** -70°C

**Contributor:** Dr. Malcolm Martin.

**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](mailto: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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