



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 NL4-3 AD8 Infectious Molecular Clone (pNL(AD8))

Catalog Number: 11346

Lot Number: 070021

Release Category: A

Provided: 5 µg purified plasmid DNA.

Cloning Vector: PUC19 was used as cloning vector. The size of the cloning vector including the insert is 15 Kb. The clone is ampicillin resistant.

Cloning Site: Vector cloning site between *KpnI* and *BsmI* The size of the insert is 1.7 kb.

GenBank: AF004394

Host Strain: JM107 cells.

Description: A macrophage-tropic (R5) derivative of pNL4-3 was constructed by removing the 1.7-kbp fragment between the *KpnI* site in the gp120 coding region and the *BsmI* site in the gp41 from the macrophage-tropic clone pAD8-1 and substituting this fragment for the corresponding region of pNL4-3 (pNL4-3 nucleotides 6348 to 8051). The resulting clone, pNL(AD8), efficiently infects primary human MDMs, unlike the parent, pNL4-3, which is unable to productively infect this cell type.

[Plasmid Map](#)

Recommended Storage: 4°C

Contributor: Dr. Eric O. Freed

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: Freed, EO, Englund, G., and Martin, MA. Role of the Basic Domain of Human Immunodeficiency Virus Type I Matrix in Macrophage Infection. *J. Virol.* **69**(6):3949-3954 (1995).

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 AD8 Infectious Molecular Clone (pNL(AD8)) from Dr. Eric O. Freed." Also include the reference cited above in any publications.

Last Updated: July 18, 2017

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