



DATA SHEET

For research use only. Not for use in humans.

Reagent:	Human Immunodeficiency Virus 1 (HIV-1), Strain NL4-3 Infectious Molecular Clone (pNL4-3)
Catalog Number:	ARP-114
Lot Number:	190489
Release Category:	C
Provided:	Each vial of ARP-114 contains approximately 5 µg of dried purified DNA stabilized in DNASTABLE® PLUS.
Description:	<p>ARP-114 is a full-length replication-competent, infectious HIV-1, subtype B, strain NL4-3 molecular clone. The virus produced by this molecular clone utilizes CXCR4 as a co-receptor.</p> <p>This construct is 14,825 base pairs, including the insert (GenBank: AF324493).</p>
Special characteristics:	<p>The source of this chimeric molecular clone is the HIV-1 NY5 isolate (5') and the HIV-1 LAV isolate (3') cloned directly from genomic DNA. The 5' 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. The plasmid contains the gene for ampicillin resistance. The contributor-provided plasmid map and sequence is available on the NIH HIV Reagent Program webpage.</p> <p>Note: ARP-114 can be propagated in STBL2™ cells and grown at 37°C. Larger molecular clones may benefit from growth at 30°C. This construct may also be grown in other competent cells.</p>
Recommended Storage:	Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.
Contributor:	Dr. Malcolm Martin
References:	Adachi, A., et al. "Production of Acquired Immunodeficiency Syndrome-Associated Retrovirus in Human and Nonhuman Cells Transfected with an Infectious Molecular Clone." J. Virol. 59 (1989): 284-291. PubMed: 3016298 .
Citation:	Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: Human Immunodeficiency Virus 1 (HIV-1), Strain NL4-3 Infectious Molecular Clone (pNL4-3), ARP-114, contributed by Dr. M. Martin."
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 (BMBL) . 6th ed. Washington, DC: U.S. Government Printing Office, 2020.
Disclaimers:	<p>You are authorized to use this product for research use only. It is not intended for use in humans.</p> <p>Use of this product is subject to the terms and conditions of the NIH HIV Reagent Program Material Transfer Agreement (MTA). The MTA is available on our Web site at www.hivreagentprogram.org.</p>



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