

## DATA SHEET

**For research use only. Not for use in humans.**

<b>Reagent:</b>	Human Immunodeficiency Virus Type 1 (HIV-1) NL4-3 Env Expression Vector (pDOLHIVenv)
<b>Catalog Number:</b>	ARP-324
<b>Lot Number:</b>	200295
<b>Provided:</b>	Each vial of ARP-324 contains approximately 5 µg of dried, purified DNA stabilized in DNASTable® Plus. Please see the notice for additional information and the protocol for the reconstitution of dried DNA reagents on the BEI Resources webpage.
<b>Description:</b>	<p>ARP-324 is a MuLV based retrovirus vector encoding pNL4-3 envelope glycoprotein. The <i>Sall-XhoI</i> region of pNL4-3 (ARP-114) was introduced into the <i>SaI</i> site of pDOL. pDOLHIVenv contains the open reading frames for the pNL4-3 <i>env</i>, <i>tat</i>, and <i>rev</i> coding regions. The gene expression is under the control of Moloney murine virus LTR (MuLV LTR). ARP-324 efficiently expresses pNL4-3 envelope glycoprotein.</p> <p><u>Note:</u> The vector contains a neomycin resistance marker. Kanamycin can be substituted for neomycin at a final concentration of 12.5 µg/mL for liquid culture; 25 µg/mL for plates. Plates should be wrapped in foil until use as the antibiotic is light sensitive.</p>
<b>Recommended Storage:</b>	Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.
<b>Contributors:</b>	Dr. Eric O. Freed and Dr. Rex Risser.
<b>References:</b>	<p>Korman, A. J., et al. "Expression of human Class II Major Histocompatibility Complex Antigens Using Retrovirus Vectors." <i>Proc. Natl. Acad. Sci. USA</i> 84 (1987): 2150-2154. PubMed: 3031667.</p> <p>Freed E. O., D. J. Myers and R. Risser. "Mutational Analysis of the Cleavage Sequence of the Human Immunodeficiency Virus Type 1 Envelope Glycoprotein Precursor gp160." <i>J. Virol.</i> 63 (1989): 4670-4675. PubMed: 2677400.</p>
<b>Citation:</b>	Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Human Immunodeficiency Virus Type 1 (HIV-1) NL4-3 Env Expression Vector (pDOLHIVenv) ARP-324."
<b>Biosafety Level: 1</b>	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). Current Edition. Washington, DC: U.S. Government Printing Office.
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