



DATA SHEET

For research use only. Not for use in humans.

Reagent:	Human Immunodeficiency Virus Type 1 (HIV-1) NL4-3 IRES-eGFP Infectious Clone (pBR43leG-sykKE44nef)
Catalog Number:	ARP-11374
Lot Number:	200255
Release Category:	C
Provided:	Each vial of ARP-11374 contains approximately 5 micrograms of dried, purified DNA stabilized in DNASTable®Plus. Please see the notice for additional information and the protocol for reconstitution of dried DNA reagents on the NIH HIV Reagent Program webpage.
Description:	<p>ARP-11374 is a construct consisting of approximately 14 kilobases including the insert, <i>nef</i>, from Simian Immunodeficiency Virus, isolate SIVsyk-KE44 (GenBank: DQ222473). The size of the insert is approximately 11 kilobases. The vector is a truncated form of pBR322 containing the eGFP reporter gene and the gene for ampicillin resistance.</p> <p><i>nef</i> alleles from different primate lentiviruses were cloned into an HIV-1 (NL4-3 based) proviral vector designed to co-express <i>nef</i> and eGFP from a single bicistronic RNA. The <i>nef</i> expression is mediated by the wild-type HIV-1 LTR promoter and naturally occurring splice sites. Cells infected with these reporter viruses co-express Nef and eGFP at correlating levels. The effect of Nef on the surface expression of cellular receptors or on apoptosis can be examined directly in virally infected cells.</p> <p><u>Note:</u> Target cells can either be infected using the wild-type X4-tropic NL4-3 Env or VSV-G pseudotyped viral particles.</p>
Recommended Storage:	Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.
Contributor:	Dr. Jan Münch, Dr. Michael Schindler and Dr. Frank Kirchhoff
References:	<p>Schindler, M., et al. "Nef-Mediated Suppression of T Cell Activation Was Lost in a Lentiviral Lineage that Gave Rise to HIV-1." <i>Cell</i> 125 (2006): 1055-1067. PubMed: 16777597.</p> <p>Kirchhoff, F., et al. "Nef Proteins from Simian Immunodeficiency Virus-Infected Chimpanzees Interact with p21-Activated Kinase 2 and Modulate Cell Surface Expression of Various Human Receptors." <i>J. Virol.</i> 78 (2004): 6864-6874. PubMed: 15194762.</p> <p>Münch, J., et al. "Nef-Mediated Enhancement of Virion Infectivity and Stimulation of Viral Replication Are Fundamental Properties of Primate Lentiviruses." <i>J. Virol.</i> 81 (2007): 13852-13864. PubMed: 17928336.</p> <p>Heigele, A., et al. "Down-Modulation of CD8alpha-beta Is a Fundamental Activity of Primate Lentiviral Nef Proteins." <i>J. Virol.</i> 86 (2012): 36-48. PubMed: 22013062.</p>
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 Type 1 (HIV-1) NL4-3 IRES-eGFP Infectious Clone (pBR43leG-sykKE44nef), ARP-11374, contributed by Dr. Jan Münch, Dr. Michael Schindler and Dr. Frank Kirchhoff."
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. <u>Biosafety in Microbiological and Biomedical Laboratories</u> . 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm .



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Note:

Scientists at for-profit institutions or who intend commercial use of this reagent must contact Dr. Frank Kirchhoff, Department of Virology, Universitätsklinikum, Albert-Einstein-Allee 11, 89081, Ulm, Germany, Tel: 49-731-50023344, Fax: 49-731-50023337, Email: frank.kirchhoff@medizin.uni-ulm.de, and specify the name of the reagent and a description of the intended use, before the reagent can be released.

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