



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	Panel of HIV-1 Env Clones – Subtypes A, A/D, A2/D, C, and D
Catalog Number:	11947
Lot Number:	130171
Release Category:	C
Provided:	5 µg of each plasmid. Refer to table 1 below for a list of clones included in this set. Clones can also be ordered individually by catalog number.
Cloning Vector:	PCI-neo (ampicillin and neomycin resistance); The size of the cloning vector including insert is approximately 8.5kb. The size of the insert alone is approximately 3kb.
Cloning Site:	MluI-NotI, 5'-3'
GenBank:	See Table 1.
Host Strain:	STBL3
Description:	Panel of 35 HIV-1 subtypes A, A/D, A2/D, C, and D envelope clones
Special Characteristics:	<p>These clones express Env isolated from HIV-1 infected women in Mombasa, Kenya. These women were part of a prospective study of high risk individuals who were regularly monitored for the presence of HIV-1 antibody. The Env region was amplified from PBMCs 14-391 days post-infection.</p> <p>These variants are useful for screening neutralizing antibody responses, entry inhibitors, and/or candidate microbicides.</p> <p>The envelope region of HIV-1 was amplified by PCR from PBMC DNA. The PCR product was digested with MluI/NotI, gel isolated and cloned into MluI/NotI digested pCI-neo.</p> <p>These variants can be ordered individually by catalog number, or as part of this panel set.</p> <p>Table 1. Panel of HIV-1 Envelope Clones</p>

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: Keep at -20°C or lower. Avoid freeze-thaw cycles as reagent degradation may result.

Contributor: Dr. Julie Overbaugh

References: Long EM, Rainwater SM, Lavreys L, Mandaliya K, Overbaugh J (2002) HIV type 1 variants transmitted to women in Kenya require the CCR5 coreceptor for entry, regardless of the genetic complexity of the infecting virus. AIDS Res Hum Retroviruses 18:567–576. [Abstract](#)

Blish CA, Jalalian-Lechak Z, Rainwater S, Nguyen M-A, Dogan OC, Overbaugh J 2009. Cross-subtype neutralization sensitivity despite monoclonal antibody resistance among early subtype A, C, and D envelope variants of human immunodeficiency virus type 1. J Virol 83:7783–7788. doi:10.1128/JVI.00673-09 [Abstract](#)

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: (specify clone) from Dr. Julie Overbaugh", also include references sited above.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact Gerianne Sands, Associate General Counsel, Fred Hutchinson Cancer Research Center, 110 Fairview Avenue North, Seattle WA, 98109, Tel: (206)667-1224, Fax: (206)667-6590, Email: gjsands@fhcrc.org, and specify the name of the reagent and a description of the intended use, before the reagent can be released.

Last Updated: April 27, 2018

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