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DATA SHEET

Reagent:	HIV-1 YU2 Infectious Molecular Clone
Catalog Number:	1350
Lot Number:	040591
Release Category:	C
Provided:	1 vial transformed JM109 bacteria.
Cloning Vector:	pTZ19R (United States Biochemical).
Cloning Site:	*Sph*I-*Sal*I.
GenBank:	M93258
Description:	*Sal*I-*Eco*RI (5') and *Eco*RI-*Sph*I (3') fragments were ligated and cloned into the *Sph*I-*Sal*I site of pTZ19R to produce the full length, nonpermuted clone pYU2.
Special Characteristics:	This is the first full length proviral HIV-1 clone derived directly from uncultured material. pYU2 is a replication competent, infectious molecular clone. Virus derived from this clone productively infects primary lymphocytes, primary monocytes and macrophages, and Molt-4 clone 8 cells, but does not replicate in Sup-T1 or CEMx174 cells. Growth of the bacteria at 30°C is less likely to cause deletions than growth at higher temperatures. Source of Pro Virus: Proviral DNA was cloned directly from human brain tissue without extensive cell culture from a patient who died of AIDS dementia complex. Ampicillin resistant.
Recommended Storage:	-70°C.
Contributor:	Dr. Beatrice Hahn and Dr. George M. Shaw.

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: Li Y, Hui H, Burgess CJ, Price RW, Sharp PM, Hahn BH, Shaw GM. Complete nucleotide sequence, genome organization, and biological properties of human immunodeficiency virus type 1 in vivo: evidence for limited defectiveness and complementation. *J Virol* **66**:6587-6600, 1992. Li Y, Kappes JC, Conway JA. Price RW, Shaw GM, Hahn BH. Molecular characterization of human immunodeficiency virus type 1 cloned directly from uncultured human brain tissue: identification of replication-competent and -defective viral genomes. *J Virol* **65**:3973-3985, 1991.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: pYU-2 from Dr. Beatrice Hahn and Dr. George Shaw." Also include the references cited above in any publications.

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