



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 HXB2 ΔEnv Non-infectious Molecular Clone (pMenv(-))

Catalog Number: 2089

Lot Number: 2 09/10/93

Release Category: C

Provided: 1 ml ampicillin-resistant transformed HB101 bacteria.

Cloning Vector: pHXB2gpt, an infectious proviral clone of HIV-1_{IIIB}.

Description: Site-directed mutagenesis was used to introduce a termination codon (TGA) in place of the methionine initiator codon (ATG) in the *env* gene. The mutant (designated *Menv2* in the reference) is unable to synthesize Env.

Special Characteristics: Virus-like particles and normal levels of viral protein (except Env) and RNA are produced after transient transfection into COS-1 or other permissive cells. Virus derived from the clone is not infectious in primary lymphocytes and macrophages, and several CD4+ and CD4- human cell lines tested. The mutant reverts readily to the wild type phenotype and resumes cell-free infectious properties when wild type *env* is supplied in *trans*. Source of Pro Virus: HIV-1_{HXB2} viral DNA from HIV-1_{IIIB} (Catalog #398, from Dr. R. Gallo).

Recommended Storage: -70°C.

Contributor: Dr. Reza Sadaie.

References: Sadaie MR, Kalyanraman VS, Mukopadhyaya R, Tschachler E, Gallo RC, Wong-Staal F. Biological characterization of noninfectious HIV-1 particles lacking the envelope protein. *Virology* **187**:604-611, 1992.

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.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 HXB2 ΔEnv Non-infectious Molecular Clone (pMenv(-)) from Dr. Reza Sadaie." Also include the reference cited above in any publications.

Last Updated:

September 14, 2017

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