



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

Reagent: HIV-1 HXB2 Env Expression Vector (pHXB2-env)

Catalog Number: 1069

Lot Number: 040154

Release Category: A

Provided: 1 ml of transformed bacteria

Cloning Site: 5' *Sma*I - 3' *Sal*I

Description: Contains a 2897 bp 5' *Sac*I - 3' *Xho*I HXB2 env fragment from reagent #1067 HIV-gpt (env coding sequences are nt 6224 - 8794). HIV-1 gp160 is expressed from an SV40 promoter. No other HIV gene products are expressed. Ampicillin-resistant vector.

[Plasmid Map](#)

Special Characteristics: Resistance: Ampicillin

Bacterial Host: HB101. Other bacterial strains should also be successful.

Source of Provirus: HIV-1 plasmid pHXB2gpt (Dr. A. Fisher and Dr. F. Wong-Staal). The 5' *Sac*I insert site was filled in and fused to the pSV7d *Sma*I site. The 3' *Xho*I insert site was ligated to the *Sal*I site of pSV7d.

SV40 origin provides high levels of gp160 expression in COS cells. Expression is rev-dependent and transient. This expression vector has been used with HIV-gpt (catalog #1067) to cotransfect COS cells, producing infectious HIV virions.

Recommended Storage: -70°C

Contributor: Dr. Kathleen Page and Dr. Dan Littman.

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: Page KA, Landau NR, Littman DR. Construction and use of a human immunodeficiency virus vector for analysis of virus infectivity. *J Virol* **64**:5270-5276, 1990.

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 Env Expression Vector (pHXB2-env) from Dr. Kathleen Page and Dr. Dan Littman." Also include the reference cited above in any publications.

Last Updated: October 05, 2017

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