



## NIH AIDS Reagent Program

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### DATA SHEET

**Reagent:** HIV-1 HXB2 ΔRev Non-Infectious Molecular Clone (pMrev(-))

**Catalog Number:** 2086

**Lot Number:** 08/24/93

**Release Category:** C

**Provided:** 1 ml ampicillin-resistant transformed HB101 bacteria.

**Cloning Vector:** pHXB2gpt, an infectious proviral clone of HIV-1<sub>IIIB</sub>.

**Description:** Site-directed mutagenesis was used to introduce a termination codon (TGA) in place of the glycine residue 6 (GGA) in the *rev* gene and a leucine (CTG) codon in place of arginine (CGG) at residue 52 of the *tat* reading frame. The resulting mutant (designated 107:*trs*(-)) in the reference) is unable to synthesize Rev, but expresses functionally intact and active Tat.

**Special Characteristics:** Increased levels of multiply spliced 1.8 kb viral mRNA species are expressed upon transfection into COS-1 cells. Cotransfection of the pMrev(-) with a *rev* cDNA clone such as pCV1 restores the normal transcription pattern. Cocultivation of the pMrev(-)/pCV1 cotransfectant with H9 cells results in the production of non-infectious viral particles. Cotransfection of pMrev(-) and pMtat(-) (Catalog #2085) results in the production of infectious virus particles. Source of Pro Virus: HIV-1<sub>HXB2</sub> viral DNA from HIV-1<sub>IIIB</sub> (Catalog #398, from Dr. Robert Gallo).

[Image](#)

**Recommended Storage:** -70°C.

**Contributor:** Dr. Reza Sadaie.

**References:** Sadaie MR, Benter T, Wong-Staal F. Site-directed mutagenesis of two trans-regulatory genes (*tat*-III, *trs*) of HIV-1. *Science* **239**:910-913, 1988.

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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 ΔRev Non-Infectious Molecular Clone (pMrev(-)) from Dr. Reza Sadaie." Also include the reference cited above in any publications.

**Last Updated:**

September 14, 2017

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