



## NIH AIDS Reagent Program

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### DATA SHEET

**Reagent:** HIV-1 HXB2 ΔRev Non-infectious Molecular Clone (Mrev-sa)

**Catalog Number:** 2088

**Lot Number:** 09/15/93

**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 single nucleotide substitution within the *rev* splice acceptor. The mutant (designated M43:*rev*-defective in the reference) is unable to synthesize the full complement of viral mRNAs.

**Special Characteristics:** Increased levels of multiply spliced and prespliced viral mRNA species are expressed upon transfection into COS-1 cells. Levels of genomic viral mRNA are low or undetectable. Cotransfection of the *rev* mutant with a *rev* cDNA clone or with pMtat(-) provirus (Catalog #2085) restores the normal transcriptional and post-transcriptional viral mRNA patterns, and restores virus production. Source of Pro Virus: HIV-1<sub>HXB2</sub> viral DNA from HIV-1<sub>IIIB</sub> (Catalog #398, from Dr. R. Gallo).

**Recommended Storage:** -70°C.

**Contributor:** Dr. Reza Sadaie.

**References:** Sadaie MR, Rappaport J, Benter T, Josephs SF, Willis R, Wong-Staal F. Missense mutations in an infectious human immunodeficiency viral genome: functional mapping of *tat* and identification of the *rev* splice acceptor. *Proc Natl Acad Sci USA* **85**:9224-9228, 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 (Mrev-sa) from Dr. Reza Sadaie (cat# 2088)." Also include the reference cited above in any publications.

**Last Updated:**

December 20, 2018

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