



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 Δ Tat Non-infectious Molecular Clone (pMtat(-))
Catalog Number:	2085
Lot Number:	170056
Release Category:	C
Provided:	5 μ g of dried purified DNA stabilized in DNastable <i>PLUS</i>
Cloning Vector:	pHXB2gpt Ampicillin resistant
Cloning Site:	Unknown
Host Strain:	Plasmids can be propagated in STBL2 cells and grown at 37°C. Larger plasmids may benefit from growth at 30°C.
Description:	A full length non-infectious HIV-1 subtype B HXB2 Δ Tat molecular clone.
Special Characteristics:	<p>The source of this molecular clone is pHXB2gpt, an infectious proviral clone of HIV-1 HXB2 viral DNA (Cat #398). Site-directed mutagenesis was used to introduce a termination codon in place of the methionine initiator codon in the <i>tat</i> coding region. The resulting mutant is unable to synthesize Tat.</p> <p>Low or undetectable levels of viral mRNA are expressed upon transfection into COS-1 cells. Co-transfection of this clone with a <i>tat</i> cDNA clone such as pCV1 restores the normal transcription pattern. Co-cultivation of the pMtat(-)/pCV1 co-transfectant with H9 cells results in the production of non-infectious viral particles.</p> <p>Co-transfection with Catalog #2086 will yield pseudovirus that utilizes CXCR4 as a co-receptor.</p> <p>This reagent is currently being provided as dried purified DNA stabilized in DNastable <i>PLUS</i>. Please see the notice for additional information and the protocol for reconstitution of dried DNA reagents. Dried DNA Notice</p>

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.

Alternate names include: 80:*tat*(-)

Recommended Storage:

Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.

Contributor:

Dr. Reza Sadaie

References:

M. R. Sadaie, T. Benter and F. Wong-Staal. (1988). Site-directed mutagenesis of two trans-regulatory genes (*tat*-III, *trs*) of HIV-1. *Science*, 239(4842), 910-3. [PUBMED](#)

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 Δ*Tat* Non-infectious Molecular Clone (pM *tat*(-)) from Dr. Reza Sadaie." Also include the reference cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact FDA Invention Licensing at the following email address: FDAINVENTIONLICENSING@FDA.HHS.GOV, before the reagent can be released.

Last Updated:

March 24, 2020

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