



NIH AIDS Reagent Program

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DATA SHEET

Reagent:	HIV-1 HXB2 Δ Tat Non-infectious Molecular Clone (pMTat30)
Catalog Number:	2087
Lot Number:	180339
Release Category:	C
Provided:	5 μ g of dried purified DNA stabilized in DNASTable <i>PLUS</i>
Cloning Vector:	pHXB2gpt, an infectious molecular clone of HIV-1 _{IIIB} Ampicillin resistant
Host Strain:	Plasmids can be propagated in STBL2 cells and grown at 37°C. Larger plasmids may benefit from growth at 30°C. This construct may also be grown in other competent cells.
Description:	A full length non-infectious HIV-1 subtype B HXB2 molecular clone that produces defective Tat.
Special Characteristics:	<p>Site-directed mutagenesis was used to introduce a Cys to Gly substitution within the <i>tat</i> cysteine cluster. This clone is representative of several structurally/functionally defective HIV-1 mutants. Insertion of the <i>tat</i> gene derived from this clone into an expression vector containing a heterologous promoter, followed by transfection, results in the production of defective Tat protein.</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>
Recommended Storage:	Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier bag.
Contributor:	Dr. Reza Sadaie

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: Sadaie, M. R., Mukhopadhyaya, R., Benaissa, Z. N., Pavlakis, G. N. and Wong-Staal, F. (1990). Conservative mutations in the putative metal-binding region of human immunodeficiency virus tat disrupt virus replication. AIDS Res Hum Retroviruses, 6(11), 1257-63. doi:10.1089/aid.1990.6.1257 [PUBMED](#)

Sadaie, M. R., Rappaport, J., Benter, T., Josephs, S. F., Willis, R. and Wong-Staal, F. (1988). Missense mutations in an infectious human immunodeficiency viral genome: functional mapping of tat and identification of the rev splice acceptor. Proc Natl Acad Sci U S A, 85(23), 9224-8. [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 ΔTat Non-infectious Molecular Clone (pMTat30) from Dr. Reza Sadaie (cat# 2087)." 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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