



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 SF2 Tat expression Vector (pGEM2Tat Expression System)

Catalog Number: 908

Lot Number: 021054

Release Category: A

Provided: 1 vial transformed BL21 (DE3) Lys S bacteria.

Description: A 295 bp ARV-2B fragment encoding the first exon of tat was joined to a pET3A transcription terminator and this construct cloned as a HincII-EcoRV fragment downstream of the pGEM2 T7 promoter. The pGEM2 polylinker SmaI site was destroyed during the cloning process. pGEM2Tat contains a b-lac marker.

[Plasmid Map](#)

Special Characteristics: Allows production of high levels of Tat after induction with 0.4 mM IPTG at O.D. = 0.4-0.8.

Recommended Storage: -70°C.

Contributor: Dr. Richard Gaynor.

References: Rosenberg AH, Nade BN, Chui D-S, Lin S-W, Dunn JJ, Studier FW. Vectors for selective expression of cloned DNAs by T7 RNA polymerase. *Gene* **56**:125, 1987.

Garcia JA, Hardch D, Pearson L, Mitsuyasu R, Gaynor R. Functional domains required for tat-induced transcriptional activation of the HIV-1 long terminal repeat. *EMBO J* **7**:3143-3147, 1988.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 SF2 Tat expression Vector (pGEM2Tat Expression System) Expression System from Dr. Richard Gaynor (cat# 908)."

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.

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.