



## NIH AIDS Reagent Program

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### DATA SHEET

**Reagent:** HIV-2 ROD GST-Tat Expression Vector (GST-Tat 2 99R 81/84A)

**Catalog Number:** 2357

**Lot Number:** 190016

**Release Category:** B

**Provided:** 5 µg of dried purified DNA stabilized in DNastable PLUS

**Cloning Site:** The size of the insert is approximately 297 bp.

**Cloning Vector:** pGEX2T  
Ampicillin resistant

**Description:** An expression vector which produces GST fused with transactivation negative HIV-2 ROD Tat protein with R81A, R82A, R83A, and R84A mutations.

**Special Characteristics:** This construct is 5782 bp including the insert.  
This plasmid contains a thrombin proteolytic site between the Schistosoma japonicum glutathione S-transferase (GST) sequence and the Tat sequence. Tat is expressed as a GST fusion protein and can be cleaved and purified by thrombin proteolytic digestion.

[Contributor provided sequence file](#)

[Sequence file lot 190016](#)

Additional HIV-1 and HIV-2 GST-Tat expression vectors are also available. [GST-Tat Expression Vectors](#)

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.

This reagent is currently being provided as dried purified DNA stabilized in DNastable PLUS. Please see the notice for additional information and the protocol for reconstitution of dried DNA reagents. [Dried DNA Notice](#)

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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.

reconstitution of dried DNA reagents. [Dried DNA NOTICE](#)

**Recommended Storage:**

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

**Contributor:**

Dr. Andrew Rice

**References:**

Herrmann, C. H. and Rice, A. P. (1993). Specific interaction of the human immunodeficiency virus Tat proteins with a cellular protein kinase. *Virology*, 197(2), 601-8. doi:10.1006/viro.1993.1634 [PUBMED](#)

Herrmann, C. H. and Rice, A. P. (1995). Lentivirus Tat proteins specifically associate with a cellular protein kinase, TAK, that hyperphosphorylates the carboxyl-terminal domain of the large subunit of RNA polymerase II: candidate for a Tat cofactor. *J Virol*, 69(3), 1612-20. [PUBMED](#)

Rhim, H., Echetebe, C. O., Herrmann, C. H. and Rice, A. P. (1994). Wild-type and mutant HIV-1 and HIV-2 Tat proteins expressed in *Escherichia coli* as fusions with glutathione S-transferase. *J Acquir Immune Defic Syndr*, 7(11), 1116-21. [PUBMED](#)

**NOTE:**

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-2 ROD GST-Tat Expression Vector (GST-Tat 2 99R 81/84A) from Dr. Andrew Rice (cat# 2357)." Also include the references cited above in any publications.

**Scientists at for-profit institutions or who intend commercial use of this reagent must contact the Baylor College of Medicine at the following email addresses: [mta@bcm.edu](mailto:mta@bcm.edu) and [blg@bcm.edu](mailto:blg@bcm.edu), before the reagent can be released.**

**Last Updated:**

March 24, 2020

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