



## NIH AIDS Reagent Program

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### DATA SHEET

<b>Reagent:</b>	HIV-2 ROD GST-Tat Expression Vector (GST-Tat 2 90D)
<b>Catalog Number:</b>	2351
<b>Lot Number:</b>	94117
<b>Release Category:</b>	B
<b>Provided:</b>	1 vial of ampicillin-resistant, transformed BL21 cells
<b>Cloning Site:</b>	The size of the insert is approximately 270 bp.
<b>Cloning Vector:</b>	pGEX2T Ampicillin resistant
<b>Description:</b>	An expression vector which produces GST fused with HIV-2 ROD tat protein that has been truncated after aa 90 and displays reduced transactivation.
<b>Special Characteristics:</b>	<p>This construct is approximately 5218 bp including the insert.</p> <p>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.</p> <p><a href="#">Contributor provided sequence file</a></p> <p>Additional HIV-1 and HIV-2 GST-Tat expression vectors are also available. <a href="#">GST-Tat Expression Vectors</a></p> <p>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.</p>
<b>Recommended Storage:</b>	Keep the reagent at -80°C or lower. Avoid freeze-thaw cycles as reagent degradation may result.

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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.

**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 90D) from Dr. Andrew Rice (cat# 2351)." 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:** July 10, 2018

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