



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 LTR CAT Reporter Vector (pCD54)

Catalog Number: 1525

Lot Number: 96110

Release Category: C

Provided: 1 vial of ampicillin-resistant transformed DH5-a. Also grows in HB101.

Cloning Vector: pC15CAT (Catalog #1527), a derivative of pSV0CAT.

Cloning Site: HindIII.

Description: The *nef* region, NF- κ B and Sp-1 nuclear factor binding sites are deleted at -48.
Clone pC15CAT was cleaved with *Kpn*I, then treated with *Ba*31 exonuclease, blunted and the *Xba*I linkers ligated. The resultant deletion mutant, pCD54 contains HIV-1_{III}B LTR sequences from -48 to +80 located in front of the CAT gene.

Special Characteristics: The *nef* region is deleted from the HIV LTR. The NF κ B and Sp-1 nuclear factor binding sites are also deleted.

Recommended Storage: -70°C

Contributor: Dr. Steven F. Josephs.

References: Gorman CM, Moffat LF, Howard BH. Recombinant genomes which express chloramphenicol acetyltransferase in mammalian cells. *Mol Cell Biol* **2**:1044-1051, 1982.
Arya SK, Guo C, Josephs SF, Wong-Staal F. Trans-activator gene of human T-lymphotropic virus type III (HTLV-III). *Science* **229**:69-73, 1985.
Seikevitz M, Josephs SF, Dukovich M, Peffer N, Wong-Staal F, Greene WC. Activation of the HIV-1 LTR by T cell mitogens and the trans-activator protein of HTLV-I. *Science*

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.

238:15/5-15/8, 1987.

Chang KS, Liu WT, Josephs SF. Regulation of cellular trans-activating activities in two different promonocytic leukemia cell lines. *Cancer Lett* **60**:75-83, 1991.

Seigel LJ, Ratner L, Josephs SF, Derse D, Feinberg M, Reyes G, O'Brien SJ, Wong-Staal F. Transactivation induced by human T-lymphotropic virus type III (HTLV III) maps to a viral sequence encoding 58 amino acids and lacks tissue specificity. *Virology* **148**:226-231.

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 LTR CAT Reporter Vector (pCD54) from Dr. Steven Josephs (cat# 1525)." Also include the reference cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of Release Category C Reagents (Cat# 1525) must contact Dr. Brian W. Bailey, NIAID Office of Technology Development, 6610 Rockledge Drive, Room 4036, MSC 6606, Bethesda, MD 20892-6606, Email: bbailey@mail.nih.gov, Tel: 301-594-1697, Fax: 301-402-7123, before the reagent can be released.

Last Updated

September 05, 2018

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