



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 LTR CAT Reporter Vector (pCD54E9)

Catalog Number: 1521

Lot Number: 96112

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 5' end of the LTR to position -48 from the transcriptional start site is deleted, but the presence of the NF-kB enhancer sequence (forward) resulted in restored transcriptional activity as determined by CAT assay. The LTR sequences are cloned upstream to the CAT gene.
,br /> Clone pC15CAT was cleaved with *KpnI*, treated with *Ba31* exonuclease, blunted and the *XbaI* linkers ligated. The resultant deletion mutant, pCD54E9, contains HIV-1_{IIIB} LTR sequences from -48 to +80 located in front of the CAT gene. The NFkB sequence has been cloned into the *XbaI* site at -48 in the forward orientation.
[The NFkB insert sequence](#)

Special Characteristics: The 5' end of the LTR to position -48 from the transcriptional start site is deleted, but the presence of the NFkB enhancer sequence resulted in restored transcriptional activity as determined by CAT assay. The LTR sequences are cloned upstream to the CAT gene.

Recommended Storage: -70°C

Contributor: Dr. Steven F. Josephs.

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:

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* **238**:1575-1578, 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 (pCD54E9) from Dr. Steven Josephs (cat# 1521)." 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# 1521) 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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