



## NIH AIDS Reagent Program

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### DATA SHEET

**Reagent:** HIV-1 LTR CAT Reporter Vector (pCD23)

**Catalog Number:** 1522

**Lot Number:** 160168

**Release Category:** C

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

**Cloning Vector:** pC15CAT (Cat# 1527) (a derivative of pSV0CAT)  
Ampicillin resistant

**Cloning Site:** HindIII

**Description:** A HIV-1 partial LTR deletion CAT reporter vector

**Special Characteristics:** The size of this construct is 4614 bp including the insert.

This plasmid is part of a series of nested deletion mutants originating from the parent plasmid, pC15CAT (Cat# 1527). PC15CAT is a full length HIV-1 LTR CAT reporter vector. Deletion mutants were created when pC15CAT was cleaved with KpnI, treated with Bal31 exonuclease to create blunt ends, and then re-ligated with XbaI linkers.

The resultant deletion mutant, pCD23, contains HIV-1 IIIB LTR sequences from -117 to +80 located in front of the CAT reporter gene, and a new unique XbaI site. The *nef* region is deleted from the HIV LTR of this plasmid. This clone retains NF-κB (located -105 to -81) and Sp1 binding sites (located -78 to -45), and the TAR region.

[Contributor provided plasmid map](#)

[Plasmid map and sequence file lot 160168](#)

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](#)

Plasmids can be propagated in STB12 cells and grown at 37°C. Larger plasmids may

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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.

Plasmids can be propagated in *S. BL2* 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.

Alternate names include: pCD23 (ACBC-2), pCD23CAT

**Recommended Storage:**

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

**Contributor:**

Dr. Steven F. Josephs

**References:**

Heisig, V., Benter, T., Josephs, S. F., Sadaie, M. R., Okamoto, T., Gallo, R. C., & Wong-Staal, F. (1987). Interaction of viral and cellular factors with the HTLV-III LTR target sequences in vitro. *Haematol Blood Transfus*, 31, 423-429. [PUBMED](#)

Chang, K. S., Liu, W. T., & Josephs, S. F. (1991). Regulation of cellular trans-activating activities in two different promonocytic leukemia cell lines. *Cancer Lett*, 60(1), 75-83. [PUBMED](#)

Gorman, C. M., Moffat, L. F., & Howard, B. H. (1982). Recombinant genomes which express chloramphenicol acetyltransferase in mammalian cells. *Mol Cell Biol*, 2(9), 1044-1051. [PUBMED](#)

**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 (pCD23) from Dr. Steven Josephs." Also include the reference cited above in any publications.

**Scientists at for-profit institutions or who intend commercial use of this reagent must contact the NIH Office of Technology Transfer, Email: [NIAIDAIDSReagent@niaid.nih.gov](mailto:NIAIDAIDSReagent@niaid.nih.gov), before the reagent can be released. Please specify the name and a description of the intended use of the reagent.**

**Last Updated**

January 13, 2020

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