



## NIH AIDS Reagent Program

20301 Century Boulevard  
Building 6, Suite 200  
Germantown, MD 20874  
USA

Phone: 240 686 4740  
Fax: 301 515 4015  
aidsreagent.org

### DATA SHEET

**Reagent:** pLTR.A5/2000-SEAP-IRES-EGFP

**Catalog Number:** 11789

**Lot Number:** 098228

**Release Category:** C

**Provided:** 0.5 µg/µL purified plasmid DNA in TE. This plasmid can be propagated in DH5a™ on ampicillin plates.  
Other available clones: pLTR.SB253(Cat #11790) and pLTR.D24(Cat #11788).

**Cloning Vector:** pcDNA3.1+ (Invitrogen)

**Cloning Site:** The full-length LTRs were cloned directionally between MluI and NheI sites.

**Description:** A set of mammalian reporter vectors of HIV-1 subtype C-LTR (pLTRD24-SEAP-IRES-EGFP, pLTRSB253-SEAP-IRES-EGFP, pLTRA5/2000-SEAP-IRES-EGFP). The full-length HIV-1 LTR up to the splice donor was amplified from genomic DNA isolated from three different Indian clinical samples using the nested PCR approach. The restriction sites MluI and NheI were engineered into the primers. The PCR amplified fragments were directionally cloned upstream of two different reporter genes, secreted alkaline phosphatase which is directly under the LTR control and enhanced green fluorescent protein under the control of an internal ribosome entry site.  
[Plasmid Map](#)

**Special Characteristics:** Two independent reporter genes secreted alkaline phosphatase and green fluorescent protein are simultaneously expressed from these vectors in Tat-responsive manner. The LTRs have important differences in their transcription factor binding sites and will be useful in viral transactivation studies, and in the screening of viral inhibitors. The expression of both of the reporter genes could be monitored without terminating the assay.  
GenBank Accession No. [AY567474](#)

---

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.

**Recommended Storage:** -70°C

**Contributor:** Dr. Udaykumar Ranga

**References:** Siddappa NB et al., AIDS Research and Human Retroviruses, 23(10), 1268-1278, 2007.

**NOTE:** Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: pLTR.A5/2000-SEAP-IRES-EGFP from Dr. Udaykumar Ranga."Also include the reference cited above in any publications. Contact the contributor for more details.

**Scientists at for-profit institutions or who intend commercial use of this reagent must contact Dr. Udaykumar Ranga, Jawaharlal Nehru Centre for Advanced Scientific Research, Jakkur Post, Bangalore, 560064, India. Tel: (080) 228-2831 Email:udaykumar@jncasr.ac.in, before the reagent can be released.**

**Last Updated** June 21, 2018

---

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.