



NIH AIDS Reagent Program

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DATA SHEET

Reagent: CAT Reporter Vector (pIL-2r)

Catalog Number: 2134

Lot Number: 10/5/93

Release Category: C

Provided: 1 ml transformed DH5a bacteria.

Cloning Vector: Δ56, a minimal *c-fos* promoter/CAT reporter plasmid.

Cloning Site: *Sa*I.

Description: A synthetic 26 bp oligonucleotide containing the alpha subunit of the IL-2 receptor (IL-2Ra) NF-κB binding site (-268 through -243) was cloned into the *Sa*I site of plasmid delta56.

Special Characteristics: The synthetic κB oligonucleotide sequence is: (-268)GGGGAATCTCCCTCTCCTTTTATGGG(-243). The κB enhancer drives increased CAT expression in transfected S194 myeloma and 3T3 cells. This activity is further increased by LPS stimulation of these B-cell lines. CAT expression in Jurkat T cells occurs after PMA stimulation, but does not occur in the absence of mitogen induction. Double digestion of the plasmid with *Eco*RI and *Hind*III produces a 500 kb fragment containing the insert, a 2650 kb fragment, and a 2130 kb fragment. Digestion with *Hinc*II produces a 1750 kb fragment containing the insert, and 2900, 370, and 240 kb fragments.

Recommended Storage: -70°C

Contributor: Dr. Michael J. Lenardo.

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: Pierce JW, Lenardo M, Baltimore D. Oligonucleotide that binds nuclear factor NF- κ B acts as a lymphoid-specific and inducible enhancer element. *Proc Natl Acad Sci USA* **85**:1482-1486, 1988. Gilman MZ, Wilson RN, Weinberg RA. Multiple protein-binding sites in the 5'-flanking region regulate *c-fos* expression. *Mol Cell Biol* **6**:4305-4316, 1986.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: CAT Reporter Vector (pIL-2r) from Dr. Michael Lenardo (cat# 2134)." 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 NIH Office of Technology Transfer, Email: 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 November 09, 2018

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