



DATA SHEET

For research use only. Not for use in humans.

Reagent: Simian Immunodeficiency Virus (SIV), Strain SIV_{mac239} 5' Partial Molecular Clone (p239SpSp5')

Catalog Number: ARP-829

Lot Number: 190490

Release Category: C

Provided: Each vial of ARP-829 contains approximately 5 micrograms of dried, purified DNA stabilized in DNASTable[®]Plus. Please see the notice for additional information and the protocol for reconstitution of dried DNA reagents on the NIH HIV Reagent Program webpage.

Description: ARP-829 consists of the 5' half of the simian immunodeficiency virus (SIV), strain SIV_{mac239} proviral genome plus 256 base pairs of flanking cellular DNA. The insert fragment contains the 5' long terminal repeat (LTR), *gag*, *pol*, *vif*, *vpx*, *vpr* and partial *tat* genes.

ARP-829 is derived from SIV strain λ SIV239-1. The provirus is regenerated by *SphI* digestion of ARP-829 and p239SpE3' (available as ARP-830) and religation of a mixture of the two plasmids. The proviral DNA yields virus upon transfection into primary T-lymphocytes or T-lymphocytic cell lines. Virus recovered from the cell culture is pathogenic in rhesus macaques. The complete SIV_{mac239} proviral genome and flanking sequence is available (GenBank: [M33262](#)).

The cloning vector for ARP-829 is pBS+, which contains the gene for ampicillin (amp) resistance.

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

Contributor: Dr. Ronald Desrosiers

References: Kestler, H., et al. "Induction of AIDS in Rhesus Monkeys by Molecularly Cloned Simian Immunodeficiency Virus." *Science* 248 (1990): 1109-1112. PubMed: [2160735](#).

Regier, D. A. and R. C. Desrosiers. "The Complete Nucleotide Sequence of a Pathogenic Molecular Clone of Simian Immunodeficiency Virus." *AIDS Res. Hum. Retroviruses* 6 (1990): 1221-1231. PubMed: [2078405](#).

Citation: Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, Division of AIDS, NIAID, NIH: Simian Immunodeficiency Virus (SIV), Strain SIV_{mac239} 5' Partial Molecular Clone (p239SpSp5'), ARP-829, contributed by Dr. Ronald Desrosiers."

Biosafety Level: 1 Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. *Biosafety in Microbiological and Biomedical Laboratories*, 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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