



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 JR-CSF Infectious Molecular Clone (pYK-JRCSF)

Catalog Number: 2708

Lot Number: 150320

Release Category: C

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

Cloning Vector: pBRN/B

GenBank: [M38429](#)

There are amino acid substitutions as compared with the Genbank sequence in Env as follows: R525A and G666D.

Host Strain: Plasmids can be propagated in STBL2 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.

Description: A full length replication competent, infectious HIV-1 JR-CSF molecular clone derived from a primary isolate obtained from an AIDS patient. The virus produced by this molecular clone utilizes the co-receptor CCR5.

Special Characteristics: This construct contains 0.5 kb of 3' flanking sequences and 2.2 kb of 5' flanking DNA. The DNA clone was obtained from infected PBL eleven days after initiation of culture. Upon transfection, pYK-JRCSF produces infectious HIV-1 viral particles. This isolate utilizes the CCR5 co-receptor to infect cells and is non-syncytia inducing (NSI).

Host of Choice: Primary human PBL. Also infects mononuclear phagocytes, but less efficiently than JR-FL.

[Plasmid map and sequence file lot 150002 and lot 150320](#)

This reagent is currently being provided as purified DNA stabilized in DNASTable *PLUS* and dried. Please see the notice for additional information and the protocol for reconstitution of

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.

dried DNA reagents. [Dried DNA Notice](#)

Recommended Storage:

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

Contributor:

Dr. Irvin SY Chen and Dr. Yoshio Koyanagi

References:

Haltiner M, Kempe T, Tijan R. A novel strategy for constructing clustered point mutations. *Nucleic Acids Res* **13**:1015-1025, 1985. [Abstract](#)

Koyanagi Y, Miles S, Mitsuyasu RT, Merrill JE, Vinters HV, Chen ISY. Dual infection of the central nervous system by AIDS viruses with distinct cellular tropisms. *Science* **236**:819-822, 1987. [Abstract](#)

Cann AJ, Zack JA, Go AS, Arrigo SJ, Koyanagi Y, Green PL, Pang S, Chen ISY. HIV-1 T-cell tropism is determined by events prior to provirus formation. *J Virol* **64**:4735-4742, 1990. [Abstract](#)

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV-1 JR-CSF Infectious Molecular Clone (pYK-JRCSF) (Cat# 2708) from Dr. Irvin SY Chen and Dr. Yoshio Koyanagi." Also include the references cited above in any publications.

Last Updated:

August 15, 2017

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