



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 NL4-3 624 Infectious Molecular Clone (p1617-1)

Catalog Number: 7403

Lot Number: 060490

Release Category: A

Provided: 1.0 ml of glycerol stock.

Cloning Vector: The cloning vector is named pNLPFB (Ampicillin resistant).

Cloning Site: The insert (871 bp) is cloned into the *MscI* and *PflmI* sites in the forward direction.

GenBank: [AY351767](#)

Host Strain: Top 10 Cells.

Description: Part of panel of 12 prototypical infectious multidrug resistant HIV-1 reverse transcriptase (RT) nucleoside/nucleotide RT inhibitor (NRTI) clones. The panel includes clones with each of the published nucleoside analog RT mutations in the combinations that occur most frequently in HIV-infected individuals.

The insert was amplified by RT-PCR from viral RT RNA isolated from patient plasma. A reverse primer was then used to create a PflmI restriction site in the insert. The insert was then cut with *MscI* and *PflmI* and ligated into the vector. The vector contains the entire HIV genome of the NL4-3 virus. The wild-type RT has been replaced with a mutant RT from patient and contains multiple drug resistance mutations.

Special Characteristics: The panel includes clones with each of the published nucleoside analog RT mutations in the combinations that occur most frequently in HIV-infected individuals. Nucleic acid sequence data of the RT as well as phenotype susceptibility results for each clone is available from the [Stanford HIV Drug Resistance Database](#).

[Table of Catalog Numbers for all members of the panel](#)

The panel can be used for the following purposes:

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.

- 1) Screening and testing new compounds designed to be effective against the most commonly isolated multidrug resistant variants.
- 2) Biochemical and biophysical studies that require a representative set of drug-resistant variants.

Recommended Storage:

-70°C.

Contributor:

Dr. Robert W. Shafer.

References:

Johnston E., Dupnik K.M., Gonzales M.J., Winters M.A., Rhee S.Y., Imamichi T. and Shafer R.W. Panel of prototypical infectious molecular HIV-1 clones containing multiple nucleoside reverse transcriptase inhibitor resistance mutations. *AIDS* **19** (7):731-3, 2005. [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 NL4-3 624 Infectious Molecular Clone (p1617-1) from Dr. Robert W. Shafer (cat# 7403)." Also include the reference cited above in any publications.

Last Updated:

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