



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 NL4-3 1531 Infectious Molecular Clone (p7295-1)

Catalog Number: 7399

Lot Number: 098267

Release Category: A

Provided: 10 µL purified DNA (80 ng/µL).

Cloning Vector: The cloning vector is named pNLPFB.

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

GenBank: AY351744.

Host Strain: Top 10 Cells.

Description: Part of panel of 12 prototypical infectious multidrug resistant HIV-1 reverse transcriptase (RT) 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. Clones are ampicillin resistant. 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 (<http://hivdb.stanford.edu>)

[Table of all members of the panel](#)

[Multidrug Resistant HIV-1 Reverse Transcriptase Panel Information](#)

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.

Special Characteristics: The panel can be used for the following purposes:
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: Dupnik, K.M., Gonzales, M.J., and Shafer, R.W. Most Multidrug-resistant HIV-1 reverse transcriptase clones in plasma encode functional reverse transcriptase enzymes. *Antiviral Therapy* **6** (Supplement 1): 42, 2001.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: (specify clone) from Dr. Robert W. Shafer." Also include the reference cited above in any publications.

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