



NIH AIDS Reagent Program

20301 Century Boulevard
Building 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686 4740
Fax: 301 515 4015
aidsreagent.org

DATA SHEET

Reagent: HIV-1 NL4-3 1392 Infectious Molecular Clone (p7324-1)

Catalog Number: 7396

Lot Number: 021729

Release Category: A

Provided: 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. 1.0 ml of glycerol stock.

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.

Host Strain: Top 10 Cells.

Description: 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>)

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

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. 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 biological studies that require a representative set of drug resistant

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.

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.

Research Chart:

Multidrug Resistant HIV-1 Reverse Transcriptase Panel		
CLONE	CAT. #	LOT #
HIV-1 p7324-1	7396	2 021729
HIV-1 p7324-4	7397	2 021730
HIV-1 p10076-4	7398	2 021731
HIV-1 p7295-1	7399	2 021732
HIV-1 p4755-5	7400	2 021733
HIV-1 p6463-13	7401	2 021734
HIV-1 p7303-3	7402	2 021735
HIV-1 p1617-1	7403	3 060490
HIV-1 p35764-2	7404	2 021737
HIV-1 p29129-2	7405	2 021738
HIV-1 p52534-2	7406	2 021739
HIV-1 p56252-1	7407	2 021740

Last Updated: August 02, 2018

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