

NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 NL4-3 1499 Infectious Molecular Clone (p6463-13)

Catalog Number: 7401

Lot Number: 021734

Release Category:

Α

Provided: 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 biophysical studies that require a representative set of drug-resistant

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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.

REV: 08/02/2018 Page 1 of 2

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. # |
| HIV-1 p7324-1 | 7396 |
| HIV-1 p7324-4 | 7397 |
| HIV-1 p10076-4 | 7398 |
| HIV-1 p7295-1 | 7399 |
| HIV-1 p4755-5 | 7400 |
| HIV-1 p6463-13 | 7401 |
| HIV-1 p7303-3 | 7402 |
| HIV-1 p1617-1 | 7403 |
| HIV-1 p35764-2 | 7404 |
| HIV-1 p29129-2 | 7405 |
| HIV-1 p52534-2 | 7406 |
| HIV-1 p56252-1 | 7407 |

Last Updated: August 02, 2018

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REV: 08/02/2018 Page 2 of 2