



NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 NL4-3 CA138763 Infectious Molecular Clone (p4736/H1059422-2)

Catalog Number: 11851

Lot Number: 100075

Release Category: A

Provided: 10 µg of dried purified DNA stabilized in DNastable *Plus*

Cloning Vector: pNL4.3ΔIN
Ampicillin resistant

Cloning Site: PacI/EcoRI cloning site
The size of the insert is 1617 bp.

GenBank: pNL4-3: [AF324493](#)
int from CA138763 clone 2: [GU076504](#)

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, raltegravir-resistant HIV-1 NL4-3 and CA138763 chimeric molecular clone.

Special Characteristics: This construct is 14,825 bp including the insert.
The inserted region contains the entire integrase open reading frame. The flanking regions cloned along with integrase include *vif*, the 5' end of *vpr*, and the 3' end of RNaseH.
This clone can be used for in vitro susceptibility testing of new integrase inhibitors (INIs). INIs that are active against these clones are likely to retain activity against the most clinically relevant, or possibly all, raltegravir-resistant variants.

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.

[Contributor provided sequence information](#)

[Plasmid map and sequence file lot 100075](#)

This clone is part of a group of molecular clones that each contain one of the canonical raltegravir-resistance pathways in clinically-derived HIV-1 clones. In contrast to site-directed mutants, the mutations are present in their naturally occurring genetic contexts, which may include known accessory drug-resistance mutations, as well as changes at positions that are not currently known to be associated with drug resistance. [Please click here for additional information regarding this clone.](#)

This reagent is currently being provided as dried purified DNA stabilized in DNASTable *Plus*. Please see the notice for additional information and the protocol for reconstitution of 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. Robert Shafer and Elizabeth Reuman, M.S.
References:	E. C. Reuman, M. H. Bachmann, V. Varghese, W. J. Fessel and R. W. Shafer. (2010). Panel of prototypical raltegravir-resistant infectious molecular clones in a novel integrase-deleted cloning vector. <i>Antimicrob Agents Chemother</i> , 54(2), 934-6. doi:10.1128/AAC.01345-09 PUBMED
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 CA138763 Infectious Molecular Clone (p4736/H1059422-2) from Dr. Robert Shafer and Elizabeth Reuman, M.S." Also include the references cited above in any publications.
Last Updated:	January 30, 2018

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