



NIH AIDS Reagent Program

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DATA SHEET

Reagent: pNLGRINFQ

Catalog Number: 6202

Lot Number: 04

Release Category: A

Provided: 2 µg purified plasmid DNA (250 ng/uL in TE).

Cloning Vector: Cloning vector is pUC18. The plasmid size is ~15 Kbp. Ampicillin resistant.

Cloning Site: ApaI and Pflm1 (sensitive to methylation).

Host Strain: STBL2 cells.

Description: Full-length HIV-1 reverse transcriptase mutant. This mutant possesses T69G/K70R/L74I/K103N/T215F/K219Q changes in the RT. The mutations were induced using site mutagenesis in a shuttle vector (pCR2.1) containing the RT gene derived from pNLPFB (a modified pNL4.3), then exchanged in the pNL4.3PFB (Apa-PfIM1 site). The total plasmid size is ~15 Kbp. Transfection of this clone into permissive cells yields infectious virus.

Special Characteristics: This mutant has an impaired replication activity. This plasmid is a control plasmid for pNLdelta67+GRINFQ (Cat. #6203).
[Click here to view sequence](#)

Recommended Storage: -70°C.

Contributor: Dr. Tomozumi Imamichi and Dr. H. Clifford Lane.

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.

References: Imamichi T, Sinha T, Imamichi H, Zhang YM, Metcalf JA, Falloon J, Lane HC. High-level resistance to 3'-azido-3'-deoxythymidine due to a deletion in the reverse transcriptase gene of human immunodeficiency virus type 1. *J Virol* **74**:1023-1028, 2000. Imamichi T, Berg SC, Imamichi H, Lopez JC, Metcalf JA, Falloon J, Lane HC. Relative replication fitness of a high-level 3'-azido-3'-deoxythymidine-resistant variant of human immunodeficiency virus type 1 possessing an amino acid deletion at codon 67 and a novel substitution (Thr?Gly) at codon 69. *J Virol* **74**:10958-10964, 2000.

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, NIAID, NIH: pNLGRINFQ from Dr. Tomozumi Imamichi and Dr. H. Clifford Lane." Also include the references cited above in any publications.

Last Updated: May 23, 2016

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