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DATA SHEET

Reagent:	pNLGRINFQ
Catalog Number:	6202
Lot Number:	140232
Release Category:	A
Provided:	5 µg of dried purified DNA stabilized in DNAstable *Plus*
Cloning Vector:	pUC18 Ampicillin resistant
Cloning Site:	ApaI/Pflm1 cloning site (sensitive to methylation) The size of the insert is 1482 bp.
Host Strain:	Plasmids can be propagated in STBL2 cells and grown at 30°C. Larger plasmids may benefit from growth at 37°C.
Description:	Full-length HIV-1 reverse transcriptase mutant with impaired replication activity.
Special Characteristics:	This construct is 14,825 bp including the insert. 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. The total plasmid size is ~15 Kbp. Transfection of this clone into permissive cells yields infectious virus. This plasmid is a control plasmid for pNLdelta67+GRINFQ (Cat. #6203). Contributor provided sequence Plasmid map and sequence file lot 140232

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. Tomozumi Imamichi and Dr. H. Clifford Lane.

References:

Imamichi T, Sinha T, Imamichi H, Zhang YM, Metcalf JA, Falloon J, Lane HC. High-level resistance to 3'-azido-3'-deoxythimidine 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: February 12, 2018