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DATA SHEET

Reagent:	pNLdelta67+GRINFQ
Catalog Number:	6203
Lot Number:	04
Release Category:	A
Provided:	2 µg purified plasmid DNA (500 ng/uL in TE).
Cloning Vector:	Cloning vector is pUC18. The plasmid size is ~15 Kbp. Ampicillin resistant.
Cloning Site:	ApaI and Pflm1 (sensetive to methylation).
Host Strain:	STBL2 cells
Description:	Full-length HIV-1 reverse transcriptase mutant. Mutations [deletion at codon 67 (delta67)+T69G/K70R/L74I/K103N/T215F/K219Q] in the RT have originally been identified in a clinical isolate derived from a patient who had failed a combination therapy using Zidovudine+Didanosine+Delavirdine. 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 leads multiple drug resistance to a number of reverse transcriptase inhibitors and replicates as efficiently as wild type HIV-1. Click here to view sequence
Recommended Storage:	-70°C.
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: pNLdelta67+GRINFQ from Dr. Tomozumi Imamichi and Dr. H. Clifford Lane." Also include the references cited above in any publications.

Last Updated:

May 23, 2016