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DATA SHEET

Reagent:	HIV-1 Nef Expression Vector (pLconsnefSN)
Catalog Number:	3297
Lot Number:	170127
Release Category:	C
Provided:	5 µg of dried purified DNA stabilized in DNAstable *PLUS*
Cloning Site:	EcoRI cloning site The size of the insert is 639 bp.
Cloning Vector:	pLXSN Ampicillin resistant
Description:	An expression vector which produces consensus HIV-1 Nef.
Special Characteristics:	This construct is 6506 bp including the insert. This plasmid expresses a consensus Nef sequence that was derived from an alignment of Nef sequences from 54 noncultured HIV-1 patient isolates. The full-length consensus *nef* gene was derived using overlapping PCR amplification. This plasmid contains a neomycin resistance gene for mammalian selection. The *nef* gene is transducible by retrovirus mediated gene transfer. This plasmid expresses Nef in mammalian cells following packaging using a MuLV packaging cell line. Contributor provided plasmid map and sequence information GenBank Accession Number: U00220 Plasmids can be propagated in STBL2 cells and grown at 37°C. Larger plasmids may benefit from growth at 30°C. 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. Ron Swanstrom

References:

S. Anderson, D. C. Shugars, R. Swanstrom and J. V. Garcia. (1993). Nef from primary isolates of human immunodeficiency virus type 1 suppresses surface CD4 expression in human and mouse T cells. J Virol, 67(8), 4923-31. PUBMED

A. D. Miller and G. J. Rosman. (1989). Improved retroviral vectors for gene transfer and expression. Biotechniques, 7(9), 980-2, 984-6, 989-90. 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 Nef Expression Vector (pLconsnefSN) from Dr. Ron Swanstrom." Also include the reference cited above in any publications.

Scientists at for-profit institutions or who intend commercial use of this reagent must contact the UNC Tech Transfer Department at the following email address: mta@unc.edu

Last Updated: August 28, 2017