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DATA SHEET

Reagent:	HIV Gag-iGFP
Catalog Number:	12457
Lot Number:	130202
Release Category:	B
Provided:	10 µg
Description:	This full-length molecular clone of HIV derived from pNL4-3 carries green fluorescent protein (GFP) inserted into the Gag protein between the MA and CA domains of Gag, with HIV protease cleavage sites created to flank the GFP insertion. The virus is infectious in some single round infectivity assays and attenuated in multiround replication, except in the highly permissive MT4 cell line.
Special Characteristics:	May be used to monitor the efficiency of virus uptake or transfer using flow cytometry, localizing virus production in infected cells using live or fixed cell fluorescence microscopy, monitoring cell-to-cell transmission of HIV, single particle imaging, single particle fusion assays. Sequence. Plasmid map.
Recommended Storage:	-80°C
Contributor:	Dr. Benjamin Chen
References:	Hubner, W. et al. Sequence of human immunodeficiency virus type 1 (HIV-1) Gag localization and oligomerization monitored with live confocal imaging of a replication-competent, fluorescently tagged HIV-1. J Virol 81, 12596-12607 (2007). Chen, P., Hubner, W., Spinelli, M.A. & Chen, B.K. Predominant mode of human immunodeficiency virus transfer between T cells is mediated by sustained Env-dependent neutralization-resistant virological synapses. J Virol 81, 12582-12595 (2007).

Hubner, W. et al. Quantitative 3D video microscopy of HIV transfer across T cell virological synapses. Science 323, 1743-1747 (2009)

NOTE: Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: HIV Gag-iGFP from Dr. Benjamin Chen." Also include the reference cited above in any publication.

Last Updated: December 09, 2014