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DATA SHEET

Reagent:	HIV-1 HXB2 ALPP Reporter Vector (pHXBnPLAP-IRES-N-)
Catalog Number:	3611
Lot Number:	190030
Release Category:	C
Provided:	5 µg of dried purified DNA stabilized in DNAstable PLUS
Description:	A HIV-1 HXB2 infectious molecular clone which contains the human placental alkaline phosphatase (ALPP) gene inserted into the *nef* open reading frame. The *nef* ORF has been disrupted by the introduction of a frame shift mutation at a unique XhoI site in the *nef* coding region.
Special Characteristics:	Produces high titer infectious HIV-1 when transfected into 293T cells. Virus carries the PLAP reporter gene into target cells. Quantitative analysis of infection on a single cell level can be done by histochemical staining for phosphatase activity or by flow cytometry with anti-PLAP antibodies. Serves as a *nef*-deficient control for pHXBnPLAP-IRES-N+ (Catalog #3610). When both clones are used in parallel experiments, the effects of Nef on expression of cell surface molecules such as CD4 may be directly examined during acute infection. Plasmids can be propagated in STBL2 cells and grown at 37°C. Larger plasmids may benefit from growth at 30°C. This construct may also be grown in other competent cells. 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. Benjamin K. Chen and Dr. David Baltimore

References:

Chen, B. K., Gandhi, R. T. and Baltimore, D. (1996). CD4 down-modulation during infection of human T cells with human immunodeficiency virus type 1 involves independent activities of vpu, env, and nef. J Virol, 70(9), 6044-53. 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 HXB2 ALPP Reporter Vector (pHXBnPLAP-IRES-N-) from Dr. Benjamin K. Chen and Dr. David Baltimore (cat# 3611)." Also include the reference cited above in any publications.

Last Updated

March 26, 2020