

NIH AIDS Reagent Program

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DATA SHEET

Reagent: HIV-1 NL4-3 Integrase His Expression Vector (pINSD.His)

Catalog Number: 2957

Lot Number: 080030

Release C Category:

Provided: 5 µg of dried purified DNA stabilized in DNAstable *PLUS*

Cloning Site: BamHI/NdeI cloning site

The size of the insert is 871 bp.

Cloning Vector: pET15B

Ampicillin resistant

Description: Contains the NL4-3 (Catalog #114) integrase coding sequence from pINSD (Catalog

#2820) cloned into pET15B.

Special Characteristics:

ecial The size of this construct is 6565 bp including the insert.

HIV-1 integrase with an amino-terminal polyhistidine tag is expressed upon

transformation of pINSD.His into *E. coli* BL21(DE3) and IPTG induction. The expressed integrase may be purified by Ni-affinity chromatography. The polyhistidine tag may be subsequently removed by cleavage with thrombin. The integrase is functional in *in vitro* integration assays. *E. coli* strain BL21(DE3) (Novagen; ph: 1-800-526-7319, Cat. #69367-1) must be used for integrase expression, but the plasmid may be unstable in

this host. Backup stocks should be maintained in HB101.

NL4-3 Integrase Sequence (pINSD-IN insert)

pET15B vector

Plasmid map and sequence file lot 080030

This reagent is currently being provided as dried purified DNA stabilized in DNAstable

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.

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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. Robert Craigie

Bushman FD, Engelman A, Palmer I, Wingfield P, Craigie R. Domains of the integrase References:

protein of human immunodeficiency virus type 1 responsible for polynucleotidyl transfer and zinc binding. *Proc Natl Acad Sci USA* **90**:3428-3432.

Craigie R, Hickman AB, Engelman A. Integrase In: HIV Volume 2: A Practical Approach.

J. Karn (Ed.), Oxford Univ Press, pp. 53-71, 1995.

NOTE: Acknowledgment for publications should read "The following reagent was obtained

through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH from Dr. Robert Craigie: HIV-1 NL4-3 Integrase His Expression Vector (pINSD.His)." Also include the

references cited above in any publications.

Last Updated: August 10, 2018

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