

NIH AIDS Reagent Program

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DATA SHEET

Packageable ISG CRISPR Knockout Assembly (PIKAHIV) Library Reagent:

Catalog Number: 13566

200318 Lot Number:

Release Category: С

Provided: 5 μg of dried purified DNA stabilized in DNAstable Plus

Cloning Site: BsmBI cloning site

The size of the inserted oligo sequences are 20 bp.

Cloning Vector: HIV-CRISPR (cat# 13567)

Ampicillin resistant

Description: The PIKAHIV library is an assembly of 15,348 sgRNA sequences in the HIV-CRISPR

vector backbone (cat# 13567) that target 1905 human Interferon-Stimulated Genes (ISGs) as well as a set of 200 Non-Targeting Control (NTC) sgRNA sequences. This library is used to screen for genes important to infection by HIV and related primate

lentiviruses.

Special Introduction of the library through lentiviral transduction of the PIKAHIV library leads to Characteristics:

a population of Knockout cells. Infection of these HIV-CRISPR/PIKAHIV-containing cells with HIV or related primate lentiviruses leads to packaging in trans of the HIV-CRISPR genomes in each cell by budding HIV viruses. The relative replication efficiency in

Knockout cells can be read out by deep sequencing of HIV-CRISPR genomes packaged by

HIV virions.

The DNA can be amplified according to the "Library Amplification Protocol" instructions

for a related library found at: Addgene's pooled library protocol

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

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.

REV: 10/01/2020 Page 1 of 2 Recommended Storage:

Keep the reagent at room temperature in a dry storage cabinet or in a moisture barrier

bag.

Contributor:

Drs. Molly Ohainle, Michael Emerman, Julie Overbaugh and Patrick Paddison

References:

OhAinle, M., Helms, L., Vermeire, J., Roesch, F., Humes, D., Basom, R., Delrow, J. J., Overbaugh, J. and Emerman, M. (2018). A virus-packageable CRISPR screen identifies host factors mediating interferon inhibition of HIV. Elife, 7. doi:10.7554/eLife.39823

<u>PUBMED</u>

NOTE:

Acknowledgment for publications should read "The following reagent was obtained through the NIH AIDS Reagent Program, Division of AIDS, NIAID, NIH: Packageable ISG CRISPR Knockout Assembly (PIKAHIV) Library from Drs. Molly Ohainle, Michael Emerman, Julie Overbaugh and Patrick Paddison (cat# 13566)." 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 Office of Business Development & Strategy at the following email address: MTA@fredhutch.org, before the reagent can be released.

Last Updated:

October 01, 2020

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