

Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, pZM249M

Catalog No. HRP-12416

For research use only. Not for use in humans.

Contributor:

Beatrice H. Hahn, M.D., Departments of Medicine and Microbiology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, Pennsylvania, USA

Manufacturer:

BEI Resources

Product Description:

Note: The item name on the vial label should be HIV-1 pZM249M Infectious Molecular Clone.

HRP-12416 is a full-length molecular clone of replication-competent human immunodeficiency virus type 1 (HIV-1) subtype B provirus generated from single genome amplification-derived consensus sequence of transmitted/founder virus. The insert was cloned at *MluI/NotI* restriction sites in pCR-XL-TOPO vector.¹ HRP-12416 is 13,150 base pairs and contains a kanamycin resistance marker for transformant selection. The plasmid sequence and map are provided on the BEI Resources webpage.

Material Provided:

Each vial contains plasmid DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 8.0). The DNA concentration and volume provided are shown on the Certificate of Analysis. The vial should be centrifuged prior to opening. **Note:** The contents of the vial should be used to replicate the plasmid in *E. coli* prior to expression studies.

Packaging/Storage:

HRP-12416 was packaged aseptically in cryovials. The product is provided frozen and should be stored at -80°C or colder immediately upon arrival. Freeze-thaw cycles should be minimized.

Citation:

Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, pZM249M, HRP-12416.”

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the following publication: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, and National Institutes of Health. Biosafety in Microbiological and Biomedical Laboratories (BMBL). Current Edition. Washington, DC: U.S. Government Printing Office.

Disclaimers:

You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:

This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:

1. Parrish, N. F., et al. “Phenotypic Properties of Transmitted Founder HIV-1.” *Proc. Natl. Acad. Sci. U.S.A.* 110 (2013): 6626-6633. PubMed: 23542380.

ATCC® is a trademark of the American Type Culture Collection.

