Product Information Sheet for HRP-11748

Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, pSUMA.c/2821

Catalog No. HRP-11748

This reagent is the tangible property of the U.S. Government.

For research use only. Not for use in humans.

Contributor:

Christina Ochsenbauer and John C. Kappes, Department of Medicine, University of Alabama at Birmingham, Birmingham, Alabama, USA

Manufacturer:

BEI Resources

Product Description:

HRP-11748 is a full-length transmitted/founder (T/F) human immunodeficiency virus type 1 (HIV-1) subtype B infectious molecular clone (IMC).[1,2] The plasmid encodes full-length, replication-competent virus in a pBR322 vector backbone. This clone is part of a panel of full-length T/F HIV-1 IMCs (available as Catalog No. HRP-11919). The pSUMA.c/2821 insert (GenBank: JN944945.1) is 9,726 base pairs, and the resulting size of the plasmid is approximately 13,810 base pairs. The beta-lactamase gene, *bla*, provides transformant selection through ampicillin resistance in *Escherichia coli (E. coli)*. 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). 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-11748 was packaged aseptically in plastic 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, pSUMA.c/2821, HRP-11748."

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. Salazar-Gonzalez, J., et al. "Genetic Identity, Biological Phenotype, and Evolutionary Pathways of Transmitted/Founder Viruses in Acute and Early HIV-1 Infection." J. Exp. Med. 206 (2009): 1273-1289. PubMed: 19487424.
2. Ochsenbauer, C., et al. "Generation of Transmitted/Founder HIV-1 Infectious Molecular Clones and Characterization of their Replication Capacity in CD4 T lymphocytes and Monocyte-Derived Macrophages." J. Virol. 86 (2012): 2715-2728. PubMed: 22190722.

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

HIV REAGENT PROGRAM — Support Provided by NIAID

BEI Resources
www.beiresources.org

E-mail: contact@beiresources.org
Tel: 800-359-7370
Fax: 703-365-2898

© 2024 American Type Culture Collection (ATCC). All rights reserved.