

**Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, pWITO.c/2474**

**Catalog No. HRP-11739**

**For research use only. Not for use in humans.**

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

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

HRP-11739 is a full-length transmitted/founder (T/F) human immunodeficiency virus type 1 (HIV-1) subtype B infectious molecular clone (IMC).<sup>1,2</sup> The plasmid encodes full-length, replication-competent virus in a pCR-XL-TOPO vector backbone. This clone is part of a panel of full-length transmitted/founder HIV-1 infectious molecular clones (available as HRP-11919). The pWITO.c/2474 insert (GenBank: [JN944938.1](https://www.ncbi.nlm.nih.gov/nuccore/JN944938.1)) is 9718 base pairs, and the resulting size of the plasmid is approximately 13,120 base pairs. HRP-11739 contains kanamycin and zeocin resistance markers for transformant selection. The plasmid sequence and map are provided on the BEI Resources webpage.

Note: This plasmid contains the *ccdB* gene and cannot be propagated in most standard *E. coli* strains. Therefore, it should be grown in *ccdB* resistant *E. coli* strains.

**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-11739 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, pWITO.c/2474, HRP-11739."

**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.

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**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.

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