

**Human Immunodeficiency Virus Type 1 (HIV-1) Infectious Molecular Clone, pTRJO.c/2851**

**Catalog No. HRP-11747**

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

**Contributor:**

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**Manufacturer:**

BEI Resources

**Product Description:**

HRP-11747 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 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 pTRJO.c/2851 insert (GenBank: [JN944947.1](#)) is 9,767 base pairs, and the resulting size of the plasmid is approximately 13,830 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-11747 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, pTRJO.c/2851, HRP-11747.”

**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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