

**Human Immunodeficiency Virus 1 (HIV-1)
Env Expression Vector (NI1149.ec1)**

Catalog No. HRP-13505

For research use only. Not for use in humans.

Contributor:

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Manufacturer:

BEI Resources

Product Description:

HRP-13505 is an expression vector that produces human immunodeficiency virus 1 (HIV-1) subtype CRF01_AE NI1149.ec1 Env protein. This plasmid expresses Env derived from a patient from Thailand (GenBank: [MK501594](#)).¹ The cloning vector used is pcDNA™3.1/V5-His TOPO™. HRP-13505 carries an ampicillin resistance marker for transformant selection and can be propagated in STBL2 or other competent cells at 37°C (larger plasmids may benefit from growth at 30°C). The plasmid size is approximately 8463 base pairs. The plasmid sequence is provided on the BEI Resources webpage.

Note: HRP-13505 is available individually or as part of a panel set (BEI Resources Catalog No. HRP-13467).

Material Provided:

Each vial contains plasmid DNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA). 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-13505 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -20°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 1 (HIV-1) Env Expression Vector (NI1149.ec1), HRP-13505, contributed by Dr. Sodsai Tovanabutra.”

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 \(BMBL\)](#). 6th ed. Washington, DC: U.S. Government Printing Office, 2020.

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References:

1. Brown, B. K., et al. “Cross-clade Neutralization Patterns among HIV-1 Strains from the Six Major Clades of the Pandemic Evaluated and Compared in Two Different Models.” *Virology* 375 (2008): 529-538. PubMed: 18433824.

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