Vector pUC57-mini ZM249M Δ*env* eGFP

Catalog No. HRP-13908

For research use only. Not for use in humans.

Contributor and Manufacturer:

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Product Description:

Note: The label on the vial is incorrect; the plasmid expresses eGFP.

HRP-13908 is a single-cycle vector encoding full-length HIV-1$_{ZM249M}$ [primary, transmitted/founder HIV-1 clone (clade C) derived from single genome sequencing] in the plasmid pUC57-mini with deletion of 79 nucleotides following the Env signal peptide and eGFP in place of *nef*.[1,2] The beta-lactamase gene, *bla*, provides transformant selection through ampicillin resistance in *Escherichia coli (E. coli)*. The plasmid size is approximately 12,160 base pairs. The plasmid sequence and map are provided on the NIH HIV Reagent Program 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-13908 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -20°C or colder immediately upon arrival. Freeze-thaw cycles should be avoided.

Citation:

Acknowledgment for publications should read "The following reagent was obtained through the NIH HIV Reagent Program, NIAID, NIH: Vector pUC57-mini ZM249M Δ*env* eGFP, HRP-13908, contributed by Dr. Jeremy Luban."

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.

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 NIH HIV Reagent Program Material Transfer Agreement (MTA). The MTA is available on our Web site at www.hivreagentprogram.org.

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References:

1. McCauley, S. M., et al. "Intron-containing RNA from the HIV-1 Provirus Activates Type I Interferon and Inflammatory Cytokines." Nat. Commun. 9 (2018): 5305. PubMed: 30546110.
2. Salazar-Gonzalez, J. F., 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.

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