



Product Information Sheet for HRP-20103

Simian Immunodeficiency Virus Infectious Molecular Clone pSIVsun

Catalog No. HRP-20103

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

For research use only. Not for use in humans.

Contributor and Manufacturer:

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Product Description:

HRP-20103 is a full-length, infectious molecular clone of the simian immunodeficiency virus (SIV), SIVsun, available through NIH HIV Reagent Program (HRP-20128).^{1,2} SIVsun was isolated from peripheral blood mononuclear cells (PBMC) of a sun-tailed monkey (*Cercopithecus lhoesti solatus*) from a small collection of nonhuman primates in France.^{1,2} The plasmid encodes full-length replication-competent virus (GenBank: [AF131870](#)) in a pUC19 vector backbone. The beta-lactamase gene, *bla*, provides transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). The pSIVsun insert is approximately 10,000 base pairs and the resulting size of the plasmid is approximately 13,000 base pairs. The insert sequence is 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). 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 transform the plasmid in *E. coli* prior to mammalian expression.

Packaging/Storage:

HRP-20103 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen and should be stored at -80°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: Simian Immunodeficiency Virus Infectious Molecular Clone pSIVsun, HRP-20103, contributed by Dr. Vanessa M. Hirsch."

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. Hirsch V. M., Personal Communication.
2. Beer, B. E. et al. "Simian Immunodeficiency Virus (SIV) from Sun-Tailed Monkeys (*Cercopithecus solatus*): Evidence for Host-Dependent Evolution of SIV within the *C. lhoesti* Superspecies." *J. Virol.* 73 (1999): 7734-7744. PubMed: 10438863.
3. Beer, B. E., et al. "Immunodeficiency in the Absence of High Viral Load in Pig-Tailed Macaques Infected with Simian Immunodeficiency Virus SIVsun or SIVlhoest." *J. Virol.* 79 (2005): 14044-14056. PubMed: 16254339.

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