

Simian Immunodeficiency Virus Infectious Molecular Clone, pSIVsmE543-3

Catalog No. HRP-20092

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For research use only. Not for use in humans.

Contributor and Manufacturer:

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Product Description:

HRP-20092 is a full-length, infectious molecular clone of the simian immunodeficiency virus (SIV), SIVsmE543-3 (BEI Resources HRP-20116).^{1,2} SIVsmE543-3 is highly resistant to neutralizing antibodies. The plasmid encodes full-length, replication-competent virus in a pUC19 vector backbone. The ampicillin resistance gene, *bla*, provides transformant selection through ampicillin resistance in *Escherichia coli* (*E. coli*). The pSIVsmE543-3 insert is approximately 10,300 base pairs (GenBank: [U72748.2](https://www.ncbi.nlm.nih.gov/nuclseq/10300)) and the resulting size of the plasmid is approximately 13,000 base pairs. The insert sequence is provided on the BEI Resources 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 replicate the plasmid in *E. coli* prior to expression studies.

Packaging/Storage:

HRP-20092 was packaged aseptically in 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: Simian Immunodeficiency Virus Infectious Molecular Clone, pSIVsmE543-3, HRP-20092.”

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. Hirsch V. M., Personal Communication.
2. Hirsch V. M., et al. “A Molecularly Cloned, Pathogenic, Neutralization-resistant Simian Immunodeficiency Virus, SIVsmE543-3.” *J. Virol.* 71 (1997): 1608-1620. PubMed: 8995688.

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