

## DATA SHEET

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

<b>Reagent:</b>	Human Immunodeficiency Virus Type 1 (HIV-1) VRC01 Monoclonal Antibody (mAb) Heavy Chain Expression Vector
<b>Catalog Number:</b>	ARP-12035
<b>Lot Number:</b>	170305
<b>Provided:</b>	Each vial of ARP-12035 contains approximately 5 µg of dried, purified DNA stabilized in DNASTable® Plus. Please see the notice for additional information and the protocol for the reconstitution of dried DNA reagents on the BEI Resources webpage.
<b>Description:</b>	ARP-12035 is a plasmid expressing the IgG heavy chain of the human immunodeficiency virus type 1 (HIV-1) envelope glycoprotein (gp120) recombinant antibody, clone VRC01. The leader, variable and constant regions of the VRC01 heavy chain are expressed under the control of the CMV promoter. With ARP-12036, CMVR VRC01 light chain, the VRC01 mAb (ARP-12033) can be expressed in 293F cells and purified using a protein A column (see protocol and references). VRC01 is a broadly neutralizing HIV-1 antibody and is active against all major subtypes. The construct is approximately 5825 base pairs, including the insert, and is resistant to kanamycin. The plasmid sequence and map are provided on the BEI Resources webpage (GenBank: <a href="https://www.ncbi.nlm.nih.gov/nuccore/GU980702.1">GU980702.1</a> ).
<b>Recommended Storage:</b>	Store the reagent at room temperature in a dry storage cabinet or in a moisture-resistant bag.
<b>Contributor:</b>	Xueling Wu, Zhi-Yong Yang, Yuxing Li, Gary Nabel and John Mascola
<b>References:</b>	Barouch, D. H., et al. "A Human T-Cell Leukemia Virus Type 1 Regulatory Element Enhances the Immunogenicity of Human Immunodeficiency Virus Type 1 DNA Vaccines in Mice and Nonhuman Primates." <i>J Virol.</i> 79 (2005): 8828-8834. PubMed: 15994776.  Wu, X., et al. "Rational Design of Envelope Identifies Broadly Neutralizing Human Monoclonal Antibodies to HIV-1." <i>Science.</i> 329 (2010): 856-861. PubMed: 20616233.
<b>Citation:</b>	Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Human Immunodeficiency Virus Type 1 (HIV-1) VRC01 Monoclonal Antibody (mAb) Heavy Chain Expression Vector, ARP-12035."
<b>Biosafety Level: 1</b>	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.
<b>Disclaimers:</b>	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 BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at <a href="http://www.beiresources.org">www.beiresources.org</a> .  While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

## Use Restrictions:

**This material is distributed for internal research purposes only.** This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

**Scientists at for-profit institutions or who intend commercial use must contact the NIAID Technology Transfer and Intellectual Property Office, Email: [NIAIDAIDSReagent@niaid.nih.gov](mailto:NIAIDAIDSReagent@niaid.nih.gov), before the reagent can be released. Please specify the name and a description of the intended use of the reagent.**

ATCC® is a trademark of the American Type Culture Collection.

