

SUPPORTING INFECTIOUS DISEASE RESEARCH

# **Product Information Sheet for NR-51223**

# Genomic RNA from Zika Virus, BeH819015. Recombinant Infectious Clone

# Catalog No. NR-51223

# For research use only. Not for human use.

#### **Contributor:**

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#### Manufacturer:

**BEI Resources** 

### **Product Description:**

Genomic RNA was isolated from a preparation of cell lysate and supernatant from Cercopithecus aethiops kidney epithelial cells (Vero 76, clone E6; ATCC<sup>®</sup> CRL-1586™) infected with Zika virus (ZIKV), BeH819015 recombinant infectious clone (also known as BR15<sup>MC</sup>). 1,2 ZIKV, BeH819015 recombinant infectious clone is a molecular clone of ZIKV. BeH819015 that was assembled from four synthetic overlapping fragments corresponding to the full-length genomic RNA using the reverse genetic method designated ISA (Infectious-Subgenomic-Amplicons). 5'-untranslated region (5'-UTR) is derived from clone MR766MC and the 3'-untranslated region (3'-UTR) from a contemporaneous clinical isolate of ZIKV, BeH819015 was isolated in July 2015 from the blood of a human in Belém, Pará State, Brazil. 1 The complete genomic sequence of ZIKV, BeH819015 has been determined (GenBank: KU365778).

NR-51223 has been qualified for PCR applications by amplification of approximately 1080 base pairs of the NS3-NS4 polyprotein gene. Recommended dilutions for successful RT-PCR amplification are indicated on the Certificate of Analysis for each lot.

#### **Material Provided:**

Each vial contains approximately 100  $\mu$ L of viral genomic RNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA, pH 7.0). The viral genomic RNA is in a background of cellular nucleic acid and carrier RNA. The vial should be centrifuged prior to opening.

## Packaging/Storage:

NR-51223 was packaged aseptically in screw-capped plastic cryovials. The product is provided frozen on dry ice and should be stored at -60°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:

Genomic RNA from Zika Virus, BeH819015, Recombinant Infectious Clone, NR-51223."

#### 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. 5th ed. Washington, DC: U.S. Government Printing Office, 2009; see www.cdc.gov/biosafety/publications/bmbl5/index.htm.

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#### References:

- Bos, S., et al. "The Structural Proteins of Epidemic and Historical Strains of Zika Virus Differ in their Ability to Initiate Viral Infection in Human Host Cells." <u>Virology</u> 516 (2018): 265-273. PubMed: 29395111.
- Gadea, G., et al. "A Robust Method for the Rapid Generation of Recombinant Zika Virus Expressing the

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GFP Reporter Gene." <u>Virology</u> 497 (2016): 157-162. PubMed: 27471954.

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