

**Genomic RNA from Dengue Virus Type 2, New Guinea C (NGC)**

**Catalog No. NR-4288**

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

**Contributor:**  
ATCC®

**Manufacturer:**  
BEI Resources

**Product Description:**

Genomic RNA was isolated from a preparation of cell lysate and supernatant from Rhesus monkey kidney (LLC-MK2 derivative) cells infected with dengue virus type 2 (DEN-2), New Guinea C (NGC). DEN-2, NGC (New Guinea/NGC/1944) was isolated in 1944 from the serum of a febrile man in New Guinea.<sup>1,2</sup>

NR-4288 has been qualified for RT-PCR applications by amplification of a sequence of approximately 950 nucleotides or longer. Recommended dilutions for successful RT-PCR amplification are indicated on the Certificate of Analysis for each lot.

**Material Provided:**

Each vial contains approximately 100 µL of viral genomic RNA in TE buffer (10 mM Tris-HCl, 1 mM EDTA). Lot 57558392 also contains sodium azide and the content is provided on the Certificate of Analysis. 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-4288 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 Dengue Virus Type 2, New Guinea C (NGC), NR-4288.”

**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. 6th ed. Washington, DC: U.S. Government Printing Office, 2020; see [www.cdc.gov/biosafety/publications/bmbl5/index.htm](http://www.cdc.gov/biosafety/publications/bmbl5/index.htm).

**Disclaimers:**

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**References:**

1. Sabin, A. B. and R. W. Schlesinger. “Production of Immunity to Dengue with Virus Modified by Propagation in Mice.” Science 101 (1945): 640-642. PubMed: 17844088.
2. Sabin, A. B. “Research on Dengue during World War II.” Am. J. Trop. Med. Hyg. 1 (1952): 30-50. PubMed: 14903434.
3. Rico-Hesse, R., et al. “Molecular Evolution of Dengue Type 2 Virus in Thailand.” Am. J. Trop. Med. Hyg. 58 (1998): 96-101. PubMed: 9452299.
4. Irie, K., et al. “Sequence Analysis of Cloned Dengue Virus Type 2 Genome (New Guinea-C Strain).” Gene 75 (1989): 197-211. PubMed: 2714651.

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