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micro scoop



Synthetic Dengue Virus RNA Standards – *Now available!*

Dengue fever is a mosquito-borne tropical disease caused by dengue virus types 1-4. Currently, quantitative RT-PCR is the preferred method for the detection and quantification of dengue virus in clinical

diagnostics and epidemiological surveillance. To aid in these analyses, ATCC has developed four synthetic molecular standards that represent dengue virus types 1-4.

Synthetic Molecular Standard	ATCC® No.
Dengue virus type 1 RNA	VR-3228SD
Dengue virus type 2 RNA	VR-3229SD
Dengue virus type 3 RNA	VR-3230SD
Dengue virus type 4 RNA	VR-3231SD

Each quantified standard contains short fragments from the capsid, membrane, and envelope genes of the dengue virus genome. Moreover, they exhibit minimal variability, have a long shelf life, eliminate the need to culture viruses, and can be used under BSL-1 conditions, making them ideal for a number of applications, including:

- Generation of a standard curve
- Validation and verification studies
- Monitoring assay-to-assay, lot-to-lot, and operator variation

Browse our collection of [synthetic viral nucleic acids](#) today! For additional information on the authentication and characterization of synthetic and genomic nucleic acids produced at ATCC, please visit us online at www.atcc.org/genuinenucleics.

Vector-Borne Pathogens

Due to the complexity of vector-borne pathogen transmission and the unpredictable nature of insect vectors, vector borne illnesses are among the most difficult infectious diseases to

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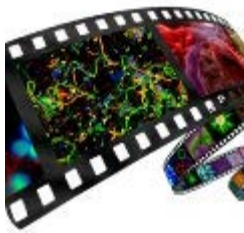


control and prevent. To aid in the research against these pathogens, ATCC offers an array of microorganisms and nucleic acids to support research on prevalent vector-borne diseases

such as:

- Babesiosis
- Chagas disease
- Chikungunya
- Dengue fever
- Ehrlichiosis
- Leishmaniasis
- Lyme disease
- Malaria
- Plague
- Rocky Mountain spotted fever
- West Nile fever

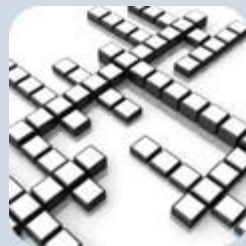
Browse our collection of [vector-borne strains and nucleic acids](#), and get started on your research today!



ATCC® Photo Contest

Show the world your ATCC microbes. ATCC is looking for images that will steal the show! Send us your most beautiful and scientifically stunning images of ATCC microbes by June 11, 2014 for a chance to win a \$200 American Express® gift card.

The photo contest is almost over, [submit your photos today!](#)



ATCC® Crossword Puzzle

Test your microbial expertise with the ATCC crossword puzzle!

[Download the Puzzle](#)

Still puzzled? [View the answers to last month's puzzle](#)



Quiz The Scientist

I am a zoonotic, vector borne pathogen that infects human monocytes. Can you guess what I am?

[Click here for more clues](#)

FAQs

Q: How stable is the synthetic West Nile virus standard (ATCC® VR-3198SD)?

A: ATCC has performed accelerated stability studies on the standard at 45°C, and no degradation was observed.

[Have more questions?](#)

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ATCC - 10801 University Boulevard, Manassas, VA 20110

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Image of Mosquito and Tick courtesy of James Gathany

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