



## Armored RNA® West Nile Virus (Cap)

Catalog #: 42042

### Suggested Use

- Daily controls for RNA extraction, amplification, and detection
- Calibrating controls, proficiency samples, or new assay development

### Packaged West Nile Virus (Cap) Sequence

Commonly used amplification primer binding regions for West Nile Virus (Lanciotti 2000) are underlined (see below). The PCR products generate a 408 basepair fragment. Note that the published sequence for the lower primer contains a single mismatch (bolded).

CGATTTGTGT	<u>TGGCTCTCTT</u>	<u>GCGTTCTTC</u>	AGG TTCACAG	CAATTGCTCC
	Lanciotti 2000 (WN233)			
GACCCGAGCA	GTGCTGGATC	GATGGAGAGG	TGTGAACAAA	CAAACAGCGA
TGAAACACCT	TCTGAGTTTT	AAGAAGGAAC	TAGGGACCTT	GACCAGTGCT
ATCAATCGGC	GGAGCTCAAA	ACAAAAGAAA	AGAGGAGGAA	AGACCGGAAT
TGCAGTCATG	ATTGGCCTGA	TCGCCAGCGT	AGGAGCAGTT	ACCCTCTCTA
ACTTCCAAGG	GAAGGTGATG	ATGACGGTAA	ATGCTACTGA	CGTCACAGAT
GTCATCACGA	TTCCAACAGC	TGCTGGAAAG	AACCTATGCA	TTGTCAGAGC
AATGGATGTG	GGATACATGT	GCGATGATAC	TATCACTTAT	<u>GAATG<b>CCC</b>AG</u>
			Lanciotti 2000 (WN640c)	
<u>TGCTGT</u> CGGC	<u>TG</u> GTAATGAT	CCAGAAGACA	TCGACTG	

### References

1. Lanciotti RS, Kerst AJ, Nasci RS, Godsey MS, Mitchell CJ, Savage HM, Komar N, Panella NA, Allen BC, Volpe KE, Davis BS, Roehrig JT. Rapid Detection of West Nile Virus from Human Clinical Specimens, Field-Collected Mosquitoes, and Avian Samples by a TaqMan Reverse Transcriptase-PCR Assay. *J. Clin. Microbiol.* **38**: 4066–4071. 2000.
2. Pasloske BL, WalkerPeach CR, Obermoeller RD, Winkler M, DuBois DB. Armored RNA technology for production of ribonuclease-resistant viral RNA controls and standards. *J. Clin. Microbiol.* **36**: 3590-3594. 1998.
3. WalkerPeach CR, Winkler M, DuBois DB, Pasloske BL. Ribonuclease-resistant RNA controls (Armored RNA) for reverse transcription-PCR, branched DNA and genotyping assays for hepatitis C virus. *Clin. Chem.* **45**: 2079-2085. 1999.

Armored RNA is a technology developed jointly by Ambion, Inc. and Cenetron Diagnostics, LLC (US patents #5,677,124, #5,919,625, #5,939,262, #6,214,982, and #6,399,307). Armored RNA is a registered trademark of Ambion and Cenetron Diagnostics. Amplicor® and Monitor® are registered trademarks of Roche Molecular Systems. For Research Use Only. Not For Use in Diagnostic Procedures.