



Armored RNA® West Nile Virus (NEN)

Catalog #: 42041

Suggested Use

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

Packaged West Nile Virus (NEN) Sequence

Commonly used amplification primer binding regions for West Nile Virus (Lanciotti 2000, Lipkin 2000) are underlined (see below). The PCR products generated are: ENV 70 basepairs, NS5 70 basepairs, NC 103 basepairs.

GCAGTTATTG	CTATTTGGCT	<u>ACCGTCAGCG</u>	<u>ATCTCTCCAC</u>	<u>CAAAGCTGCG</u>	Lanciotti (WNENV-Forward)
TGCCCGACCA	TGGGAGAAGC	<u>TCACAATGAC</u>	<u>AAACGTGCTG</u>	<u>ACCCAGCTTT</u>	Lanciotti (WNENV-Reverse)
TGTGTGCAGA	CAAGGGTACT	TCCACAGAAG	AGACCTGCGG	CTCATGGCCA	
<u>ACGCCATTTG</u>	<u>CTCCGCTGTC</u>	<u>CCTGTGAATT</u>	GGGTCCCTAC	CGGAAGAACC	Lipkin (NS5-Forward)
<u>ACGTGGTCCA</u>	<u>TCCATGCAGG</u>	<u>AGGAGAGTGG</u>	AGGACAACAG	AGGACATGTT	Lipkin (NS5-Reverse)
GGCCACATGT	TGTAACCTCA	AAGCCCAATG	<u>TCAGACCACG</u>	<u>CTACGGCGTG</u>	Lanciotti (WN3'NC-Forward)
CTACTCTGCG	GAGAGTGCAG	TCTGCGATAG	TGCCCCAGGA	GGACTGGGTT	
AACAAAGGCA	AACCAACGCC	<u>CCACGCGGCC</u>	<u>CTAGCCCCGG</u>	TAATGGTGTT	Lanciotti (WN3'NC-Reverse)
AACCAGGGCG	AAAGGACTAG	AGGTTAG			

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. Briese T, Glass WG, Lipkin WI. Detection of West Nile Virus Sequences in Cerebrospinal Fluid. *Lancet.* **355**(9215):1614-5. 2000.
3. 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.
4. 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.

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