



**Armored RNA
Hepatitis C Virus Panel I
(Genotypes 1a, 1b, 2a/c, 2b, 3a)**

Catalog #: 42200

Suggested Use

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

Packaged HCV Panel I

The Roche Amplicor® HCV Monitor® primer binding regions (KY80/KY78) are underlined (see below). The PCR product generated is 244 basepairs (Young, 1993).

Packaged HCV-1a Sequence from the 5'UTR region

<u>GACCTCCACC</u>	<u>ATGAATCACT</u>	<u>CCCCTGTGAG</u>	<u>GAACTACTGT</u>	<u>CTTCACGCAG</u>
<u>AAAGCGTCTA</u>	<u>GCCATGGCGT</u>	<u>TAGTATGAGT</u>	<u>GTCGTGCAGC</u>	<u>CTCCAGGACC</u>
KY80				
CCCCCTCCCG	GGAGAGCCAT	AGTGGTCTGC	GGAACCGGTG	AGTACACCGG
AATTGCCAGG	ACGACCGGGT	CCTTTCTTGG	ATCAACCCGC	TCAATGCCTG
GAGATTTGGG	CGTGCCCCCG	CAAGACTGCT	AGCCGAGTAG	TGTTGGGTCTG
CGAAAGGCCT	<u>TGTGGTACTG</u>	<u>CCTGATAGGG</u>	<u>TGCTTGCGAG</u>	TGCCCCGGGA
KY78				
GGTCTCGTAG	ACCGTGCACC	ATGAGCACGA	ATCCTAAACC	TCAAAGAAAA
ACCAAACGTA	ACACCAACCG	TCGCCACAG	GACGTCAAGT	TCCCGGGTGG
CGGTTCAGATC				

Packaged HCV-1b Sequence from the 5'UTR region

<u>GACCTCCACC</u>	<u>ATAGATCACT</u>	<u>CCCCTGTGAG</u>	<u>GAACTACTGT</u>	<u>CTTCACGCAG</u>
<u>AAAGCGTCTA</u>	<u>GCCATGGCGT</u>	<u>TAGTATGAGT</u>	<u>GTCGTGCAGC</u>	<u>CTCCAGGACC</u>
KY80				
CCCCCTCCCG	GGAGAGCCAT	AGTGGTCTGC	GGAACCGGTG	AGTACACCGG
AATTGCCAGG	ACGACCGGGT	CCTTTCTTGG	ATCAACCCGC	TCAATGCCTG
GAGATTTGGG	CGTGCCCCCG	CGAGACTGCT	AGCCGAGTAG	TGTTGGGTCTG
CGAAAGGCCT	<u>TGTGGTACTG</u>	<u>CCTGATAGGG</u>	<u>TGCTTGCGAG</u>	TGCCCCGGGA
KY78				
GGTCTCGTAG	ACCGTGCACC	ATGAGCACGA	ATCCTAAACC	TCAAAGAAAA
ACCAAACGTA	ACACCAACCG	CCGCCACAG	GACGTCAAGT	TCCCGGGCGT
TGTTTCAGATC				



Packaged HCV-2a/c Sequence from the 5'UTR region

GACCTCCGCC	ATGAACA CTC	CCCTGTGAGG	AACTACTGTC	TTCACGCAGA
AAGCGTCTAG	CCATGGCGTT	AGTATGAGTG	TCGTACAGCC	TCCAGGCCCC
KY80				
CCCCTCCCGG	GAGAGCCATA	GTGGTCTGCG	GAACCGGTGA	GTACACCGGA
ATTGCCGGGA	AGACTGGGTC	CTTCTCTGGA	TAAACCCACT	CTATGCCCGG
CCATTTGGGC	GTGCCCCCGC	AAGACTGCTA	GCCGAGTAGC	GTTGGGTTGC
GAAAGGCCTT	<u>GTGGTACTGC</u>	<u>CTGATAGGGT</u>	<u>GCTTGCGAGT</u>	ACCCCGGGAG
KY78				
GTCTCGTAGA	CCGTGCACCA	TGAGCACAAA	TCCTAAACCT	CAAAGAAAAA
CCAAAAGAAA	CACAAACCGT	CGCCACAAG	ACGTTAAGTT	TCCGGGCGGC
GGCCAGATC				

Packaged HCV-2b Sequence from the 5'UTR region

GACACTCCGC	CATGAATCAC	TCCCTGTGA	GGAACTACTG	TCTTCACGCA
GAAAGCGTCT	AGCCATGGCG	TTAGTATGAG	TGTCGTACAG	CCTCCAGGCC
KY80				
CCCCCTCCC	GGGAGAGCCA	TAGTGGTCTG	CGGAACCGGT	GAGTACACCG
GAATTC CCCGG	AAAGACTGGG	TCCTTCTTG	GATAAACCCA	CTCTATGTCC
GGTCATTTGG	GCGTGCCCCC	GCAAGACTGC	TAGCCGAGTA	GCGTTGGGTT
GCGAAAGGCC	<u>TTGTGGTACT</u>	<u>GCCTGATAGG</u>	<u>GTGCTTGCGA</u>	GTACGTAGGG
KY78				
AGGTCTCGTA	GACCGTGCCA	TCCATGAGCA	CCAAATCCTA	AACCTCAAAG
AAAAACCAAA	AGAAACACAA	ACCGCCGCC	ACAGGACGTT	AAGTTCCCGG
GTGGCGGTCA	GATC			

Packaged HCV-3a Sequence from the 5'UTR region

GACATCCACC	ATGGATCACT	CCCCTGTGAG	GAACTTCTGT	CTTCACGCAG
AAAGCGTCTA	<u>GCCATGGCGT</u>	TAGTACGAGT	GTCGTGCAGC	CTCCAGGACC
KY80				
CCCCTCCCGG	GGAGAGCCAT	AGTGGTCTGC	GGAACCGGTG	AGTACACCGG
AATCGCTGGG	GTGACCGGGT	CCTTCTTG	AGCAACCCGC	TCAATACCCA
GAAATTTGGG	CGTGCCCCCG	CGAGATCACT	AGCCGAGTAG	TGTTGGGTTCG
CGAAAGGCCT	<u>TGTGGTACTG</u>	<u>CCTGATAGGG</u>	<u>TGCTTGCGAG</u>	TGCCCCGGGA
KY78				
GGTCTCGTAG	ACCGTGCAAC	ATGAGCACAC	TTCTAAACC	TCAAAGAAAA
ACCAAAGAA	ACACCATCCG	TCGCCACAG	GACGTCAAGT	TCCCGGTTGG
CGGACAGATC				

References

1. Young, K, Resnick, R, Myers, T. Detection of hepatitis C virus RNA by a combined reverse transcription-polymerase chain reaction assay. *J. Clin. Microbiol.* **31**:882-886. 1993.
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.