**HCV X-Tail real time RT-PCR bench protocol** 

MasterMix:	μL
H2O	12.5
5X Reaction Buffer	10.0
dNTP (10mM each)	2.0
HCV-specific probe HCVMGB2	0.5
Internal Control-probe YFPY	0.5
Forward primer XTF5	1.0
Reverse primer HCMgR2	1.5
Enzyme Mix	2.0
TOTAL	30.0
	+ 20.0 RNA

<sup>\*</sup> all oligonucleotides are at 10µM concentration

## Oligonucleotide-Sequences:

XTF5 5'-GTGGCTCCATCTTAGCCCTAGT-3'

HCMgR2 5'-TGCGGCTCACGGACCTTT-3'

HCVMGB2 5'-FAM-CACGGCTAGCTGTG-MGBBHQ1-3'

YFPY 5'-VIC-ATCGTTCGTTGAGCGATTAGCAG-BHQ1-3'

## Thermal cycling program (ABI 7700 or similar):

Step	Time	Temperature (°C)	Repetition
Reverse Transcription (RT)	10 min	55	
Enzyme activation and RT inactivation	15 min	95	
PCR	10 sec	94	X 45
	20 sec <sup>a,b</sup>	58	

<sup>&</sup>lt;sup>a</sup>On ABI 7000, 7300 and 7500 platforms a minimum annealing-extension time of 33 seconds at 58°C may be obligatory

Institute of Virology University of Bonn Medical Centre Sigmund Freud-Str. 25 53127 Bonn Germany

<sup>\*</sup> dNTP, reaction buffer and enzyme mix from the Qiagen One-Step RT-PCR Kit (or similar)

<sup>\*</sup> RNA preparation with the Qiagen MinElute Spin Mini (or similar). If using a different extraction strategy, smaller amounts of RNA may be necessary to prevent from reaction inhibition.

<sup>\*</sup> Follow general PCR precautions like pipetting on ice, calculating 10% pipetting reserve etc.

<sup>&</sup>lt;sup>b</sup>Fluorescence readout at this step

## Requirements prior to shipment:

- 1. Courier account number with confirmation of assumption of costs by recipient
- 2. Filled customs declaration forms as required in recipient's country

## Shipment contents:

- 1 vial of plasmid template for quantification standard
- 1 vial of plasmid template for internal control

Please contact us separately if in vitro-transcribed RNA is requested