## AdnaTest ProstateCancerPanel AR-V7

## Part 2: Preamplification PCR and qRT-PCR

AdnaPanel Prostate AR-V7 (cat. no. 396132; box 3), containing the AdnaPanel PrimerMixes, AdnaPanel Positive Control, Internal Control and Inhibition Control, must be stored separately at -30 to -15°C. Aliquot the primer mix to prevent possible contamination and repeated temperature changes. The components must not be used beyond the expiration date.

## Further information

- AdnaTest ProstateCancerPanel AR-V7 Handbook: www.qiagen.com/HB-2525
- Safety Data Sheets: www.qiagen.com/safety
- Technical assistance: Toll-free 00800-22-44-6000 or support.giagen.com

## Protocol

1. Perform preamplification PCR (Table 1 and Table 2).

Table 1. Preparation of the preamplification PCR

Component	Volume
Preamplification PCR master mix	
2x Multiplex PCR Master Mix	25 µl
RNase-Free Water	13.75 µl
AdnaPanel PrimerMix PreAmp AR-V7	5 μΙ
cDNA or RT Negative Control	6.25 µl
Total volume	50 µl



Table 2. Preamplification PCR cycling program

	Temperature	Time
Initial activation step	95°C	5 min
3-step cycling		
Denaturation	95°C	30 s
Annealing	60°C	90 s
Extension	72°C	90 s
Number of cycles	18	

- 2. Freeze the samples immediately at -20°C after completion of the last cycle. Wait for a minimum of 15 min to allow the samples to cool down before continuing with dilution of the samples.
- 3. Spin down beads and dilute each sample 1:10 by mixing 20 µl preamplified cDNA (without beads) and 180 µl RNAse/DNAse-free water in a new reaction tube.

**Important**: Do not dilute AdnaPanel Internal Control and Positive Control.

Table 3. Preparation of the qRT-PCR master mix for seven analyses

Component	Volume
2X miRCURY SYBR® Green Master Mix	52.5 µl*
RNase-free water	0–10.5 μΙ†
ROX™ reference dye	0–10.5 μl <sup>†</sup>
Preamplified sample (dilution 1:10) or AdnaPanel Positive Control AR-V7 or RT Negative control	ابا 21
Total volume qRT-PCR master mix	84 µl

<sup>\*</sup> Pay attention to the viscosity of SYBR Green during pipetting.

 $<sup>^{\</sup>dagger}$  Depending on the instrument; total amount of ROX and RNAse/DNAse-free water is 1.5  $\mu$ l.

Table 4. qRT-PCR setup per reaction

Component	Volume
qRT-PCR master mix (prepared as per Table 3)	12 µl
AdnaPanel PrimerMix CD45 or	
AdnaPanel PrimerMix GAPDH or	
AdnaPanel PrimerMix PSA or	
AdnaPanel PrimerMix PSMA or	3 µl
AdnaPanel PrimerMix AR or	
AdnaPanel PrimerMix AR-V7 or	
AdnaPanel PrimerMix Inhibition Control	
Total volume	15 µl

Table 5. Preparation of the qRT-PCR master mix (AdnaPanel Internal Control and AdnaPanel Inhibition Control)

Component	Volume
2X miRCURY SYBR Green Master Mix	7.5 µl*
RNase-free water	0–1.5 μl <sup>†</sup>
ROX reference dye	0–1.5 μl <sup>†</sup>
AdnaPanel PrimerMix IC or AdnaPanel PrimerMix Inhibition Control	ابر 3.0
AdnaPanel Internal Control or AdnaPanel Inhibition Control	اب 3.0
Total volume	15.0 μΙ

<sup>\*</sup> Pay attention to the viscosity of SYBR Green during pipetting.

 $<sup>^{\</sup>dagger}$  Depending on the instrument; total amount of ROX and RNAse/DNAse-free water is 1.5  $\mu$ l.

Table 6. qRT-PCR cycling program

Temperature	Time
95°C	10 min
95°C	10 s
60°C	10 s
78°C	10 s
35	
60-95°C	
	95°C 95°C 60°C 78°C 35

4. Data collection of SYBR Green signal and melting curve measurement at 78°C.

For evaluation of the results, please refer to the AdnaTest ProstateCancerPanel AR-V7 Handbook.

**IMPORTANT**: If the protocol is not followed exactly, this may result in false-negative or false-positive results.



Scan QR code for handbook.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual.

Trademarks: QIAGEN®, Sample to Insighf® (QIAGEN Group); SYBR®, ROX™ (Thermo Fisher Scientific Inc.). 1112870 02/2018 HB-2524-001 © 2018 QIAGEN, all rights reserved.