

# QuantiNova<sup>®</sup> Probe IC Assay Red 650

The QuantiNova Probe IC Assay Red 650 (cat. no. 205824) should be stored immediately upon receipt at  $-15$  to  $-30^{\circ}\text{C}$  in a constant-temperature freezer.

## Further information

- *QuantiNova Reverse Transcription Kit Handbook*: [www.qiagen.com/HB-1955](http://www.qiagen.com/HB-1955)
- *QuantiNova Probe RT-PCR Kit Handbook*: [www.qiagen.com/HB-1956](http://www.qiagen.com/HB-1956)
- *QuantiNova Multiplex RT-PCR Kit Handbook*: [www.qiagen.com/HB-2208](http://www.qiagen.com/HB-2208)
- *QuantiNova Pathogen +IC Kit Handbook*: [www.qiagen.com/HB-2147](http://www.qiagen.com/HB-2147)
- Safety Data Sheets: [www.qiagen.com/safety](http://www.qiagen.com/safety)
- Technical assistance: [support.qiagen.com](http://support.qiagen.com)

## Notes before starting

- The QuantiNova Internal Control (IC) can be used to monitor performance of reverse transcription and amplification with the QuantiNova Reverse Transcription Kit, QuantiNova Probe RT-PCR Kit, QuantiNova Multiplex RT-PCR Kit and QuantiNova Pathogen +IC Kit. The use of the QuantiNova IC is optional.
- The QuantiNova IC can be detected in the same tube as the target DNA or RNA in a duplex or multiplex RT-PCR.
- The QuantiNova IC is available as DNA and RNA template. These are internal amplification controls used to test successful extraction and/or reverse transcription/amplification. The QuantiNova IC DNA and RNA are intended to report instrument or chemistry failures, errors in assay setup and the presence of inhibitors. Inhibitors such as phenol, ethanol, sodium dodecyl sulfate (SDS) or ethylene diaminetetraacetic acid (EDTA) may remain from the sample material or lysis and purification steps during the nucleic acid isolation procedure.
- It is possible to detect the QuantiNova IC with two different assays carrying different fluorophores, depending on the application.

- Using the QuantiNova IC Probe Assay (cat. no. 205813) the QuantiNova IC DNA and RNA are detected as a 200 bp internal control in the yellow channel on the Rotor-Gene Q® or in the HEX™/VIC® dye channel on other real-time PCR instruments. This assay is provided in the QuantiNova Pathogen +IC Kit.
  - Using the QuantiNova IC Probe Assay Red 650 (cat.no. 205824) the QuantiNova IC DNA and RNA are detected as a 200 bp internal control in the red channel on the Rotor-Gene Q or in the Cy5 dye channel on other real-time PCR instruments.
1. Thaw QuantiNova reagents according to the respective kit handbook. Mix the individual solutions.
  2. Prepare a reaction mix according to the respective kit handbook. Use the QuantiNova IC Probe Assay Red 650 instead of the QuantiNova IC Probe Assay in the reaction setup.
  3. Mix the reaction thoroughly and dispense appropriate volumes into PCR tubes or wells of a PCR plate.
  4. Add template to the individual PCR tubes or wells containing the reaction mix.
  5. Program the real-time cyclers.  
**Note:** Data acquisition should be performed during the annealing/extension step. To detect the QuantiNova IC Probe Assay Red 650, select the red channel on the Rotor-Gene Q or the Cy5 channel on other cyclers.
  6. Place the PCR tubes or plates in the real-time cyclers and start the cycling program.
  7. For interpretation of the QuantiNova IC Probe Assay results, please refer to the respective kit handbooks.



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 Insight®, QuantiNova®, Rotor-Gene® (QIAGEN Group); HEX™, VIC® (Life Technologies Corporation). 1104472 09/2016 HB-2207-001 © 2016 QIAGEN, all rights reserved.