

QIAGEN OneStep *Ahead* RT-PCR Kit

Overview

Principle

Procedure

Visual pipetting control

Room-temperature stability

Detect low level RNA

Challenging RNA templates

Ordering information

Fast, easy, highly sensitive and specific RT-PCR



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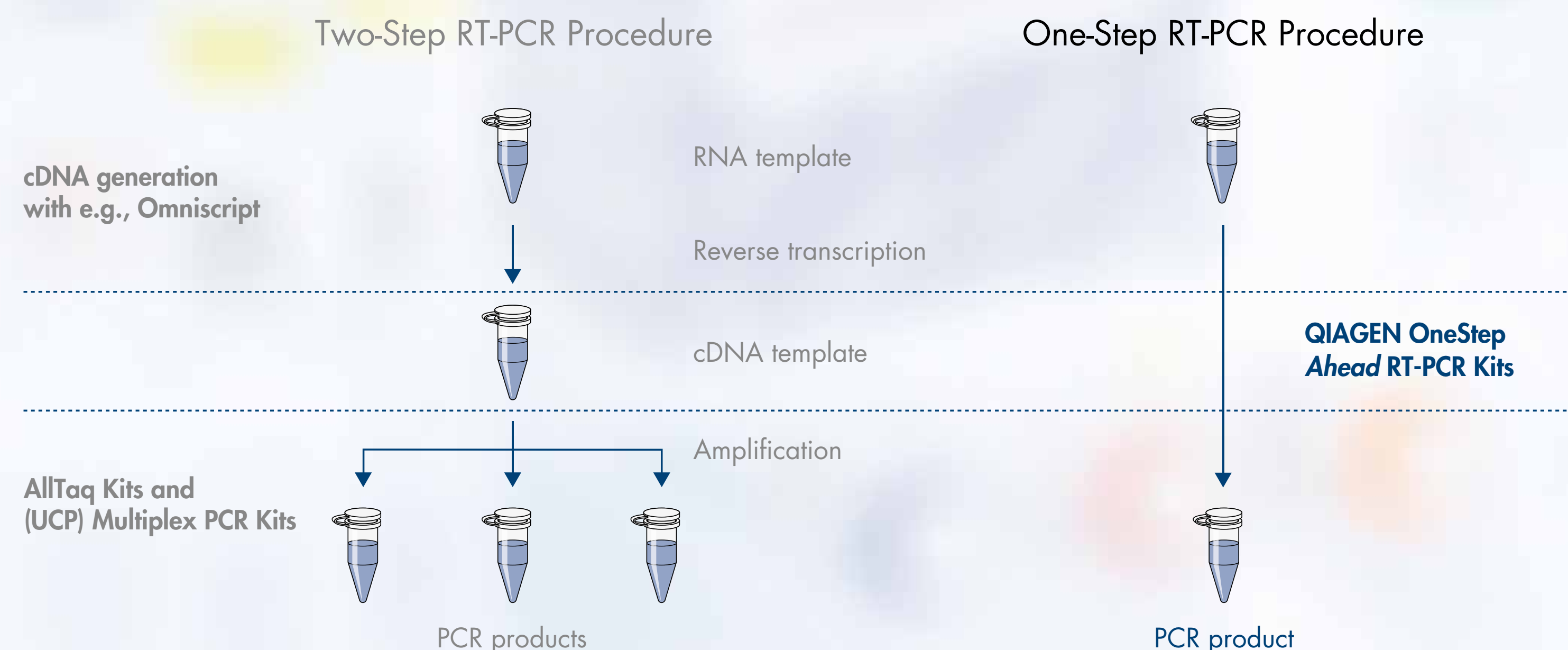
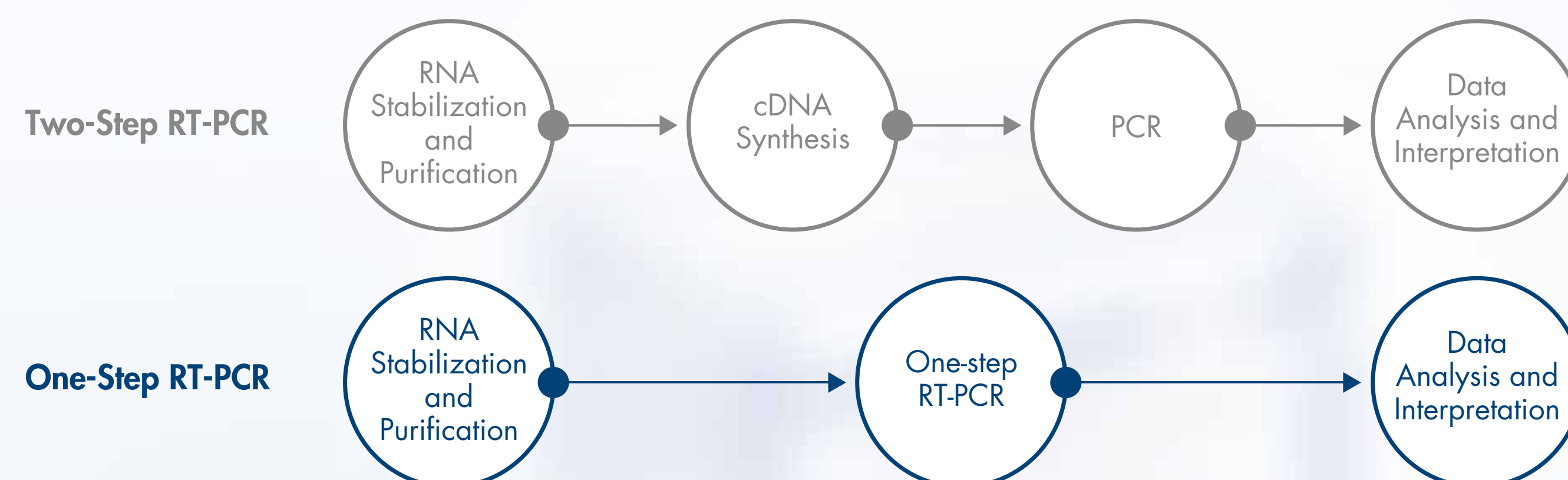
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In one-step RT-PCR, cDNA synthesis and PCR take place in the same tube



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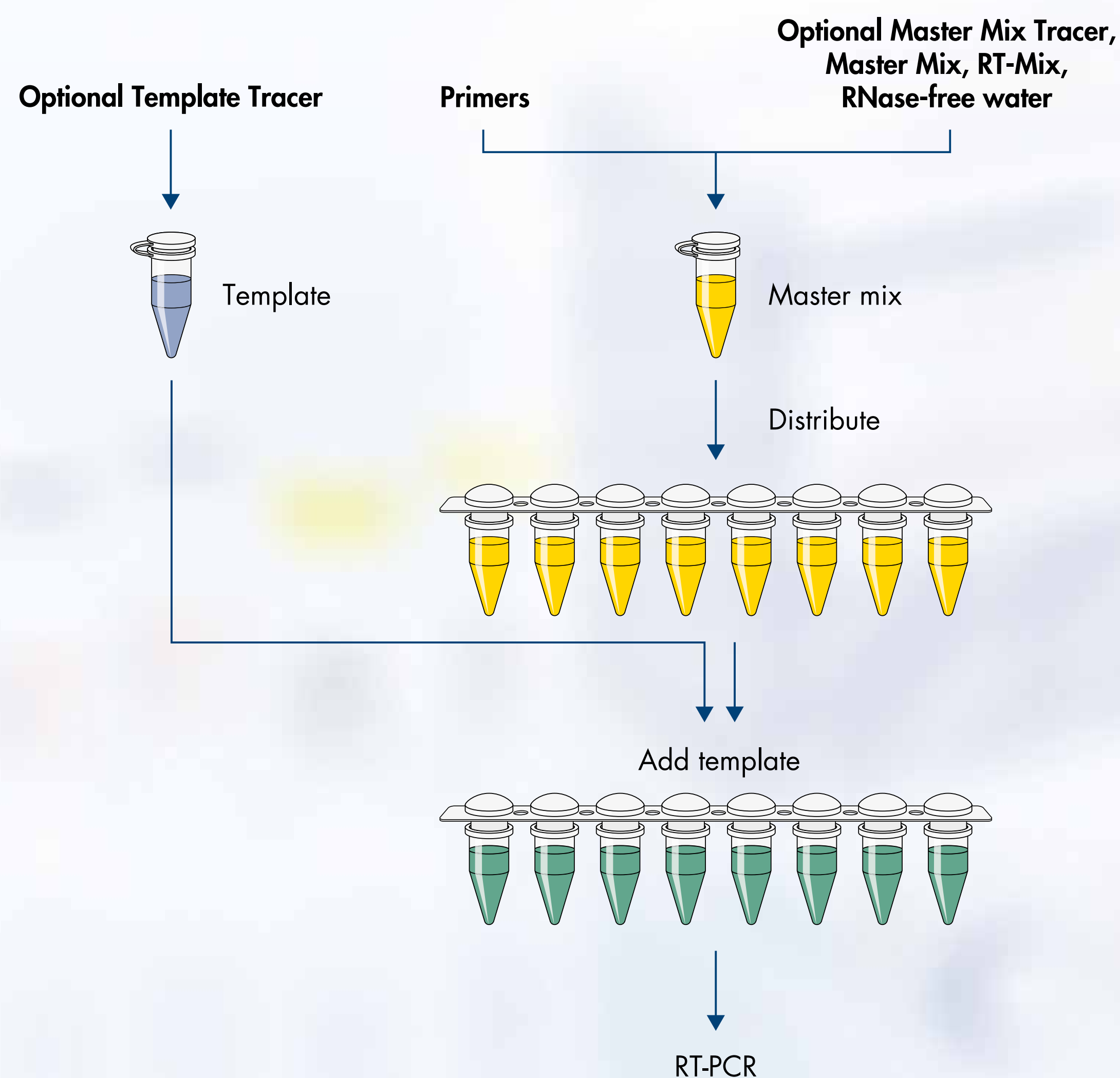
Challenging RNA templates

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Fast and easy RT-PCR setup: 60 minute total run time!

OneStep *Ahead* RT-PCR Procedure



Download
Quick-Start
Protocol

The blue Template Tracer dye and the orange Master Mix Tracer dye turn green when combined – allowing tracking of pipetted samples.

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Pipetting control prevents errors during reaction set-up



The dyes also serve as gel loading and tracking dyes



Simple color change verifies correct pipetting

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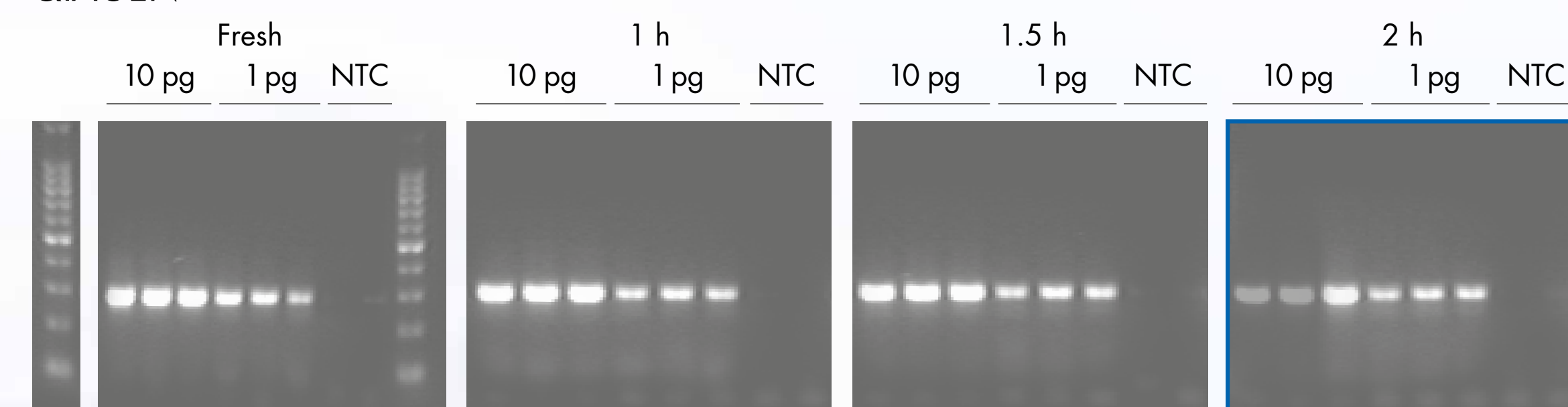
Superior room-temperature stability for convenient reaction setup



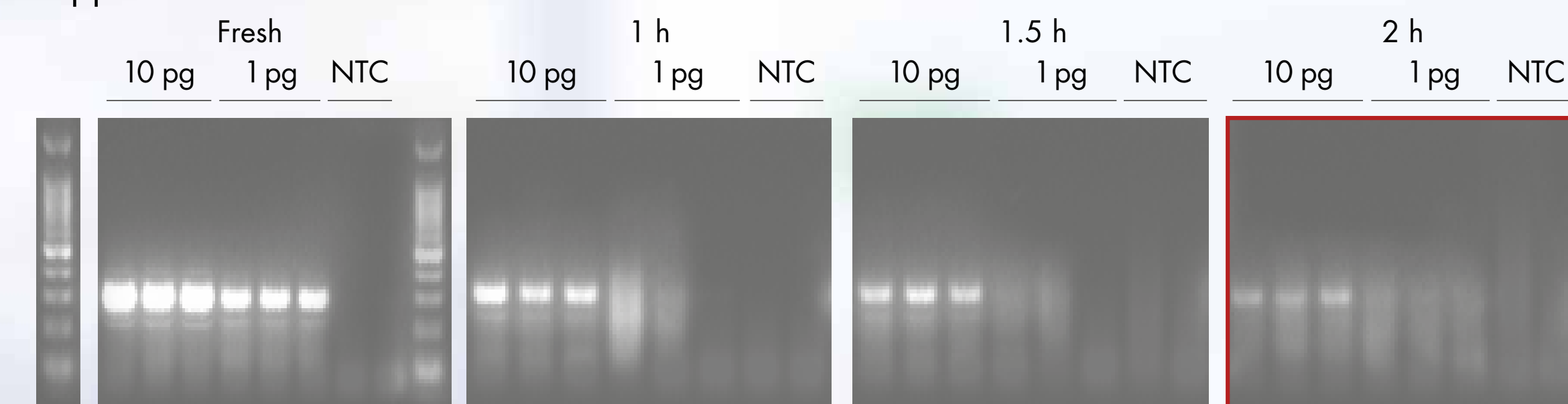
Hot-start RT-enzymes inactive at ambient temperatures

ACTB was amplified from total RNA. Reactions were setup on ice or left at room temperature for up to 2 h.

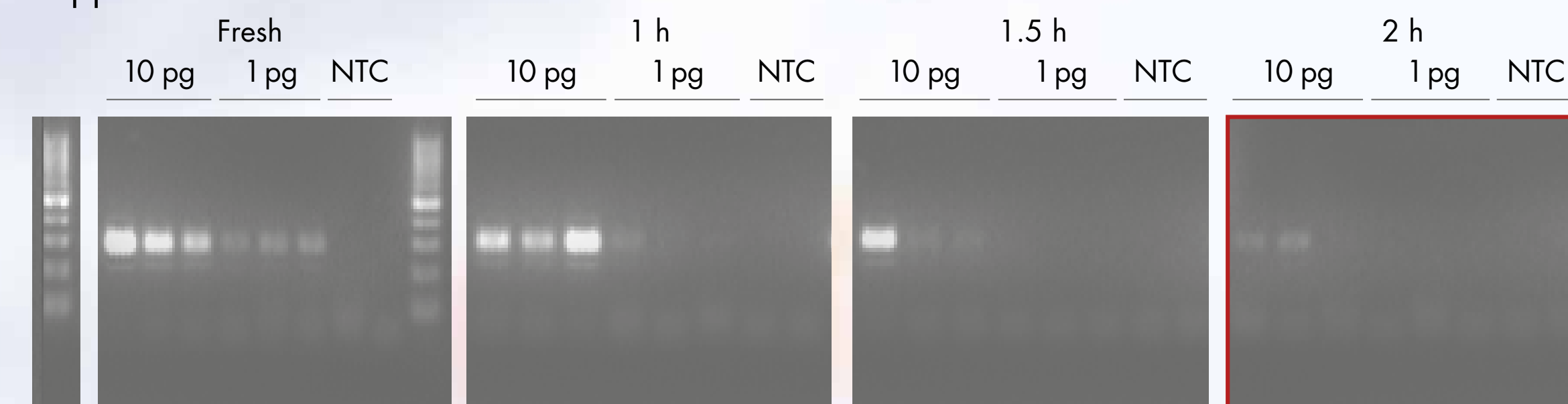
QIAGEN



Supplier A



Supplier B



Blue arrow – specific product
 Red arrows – primer dimers

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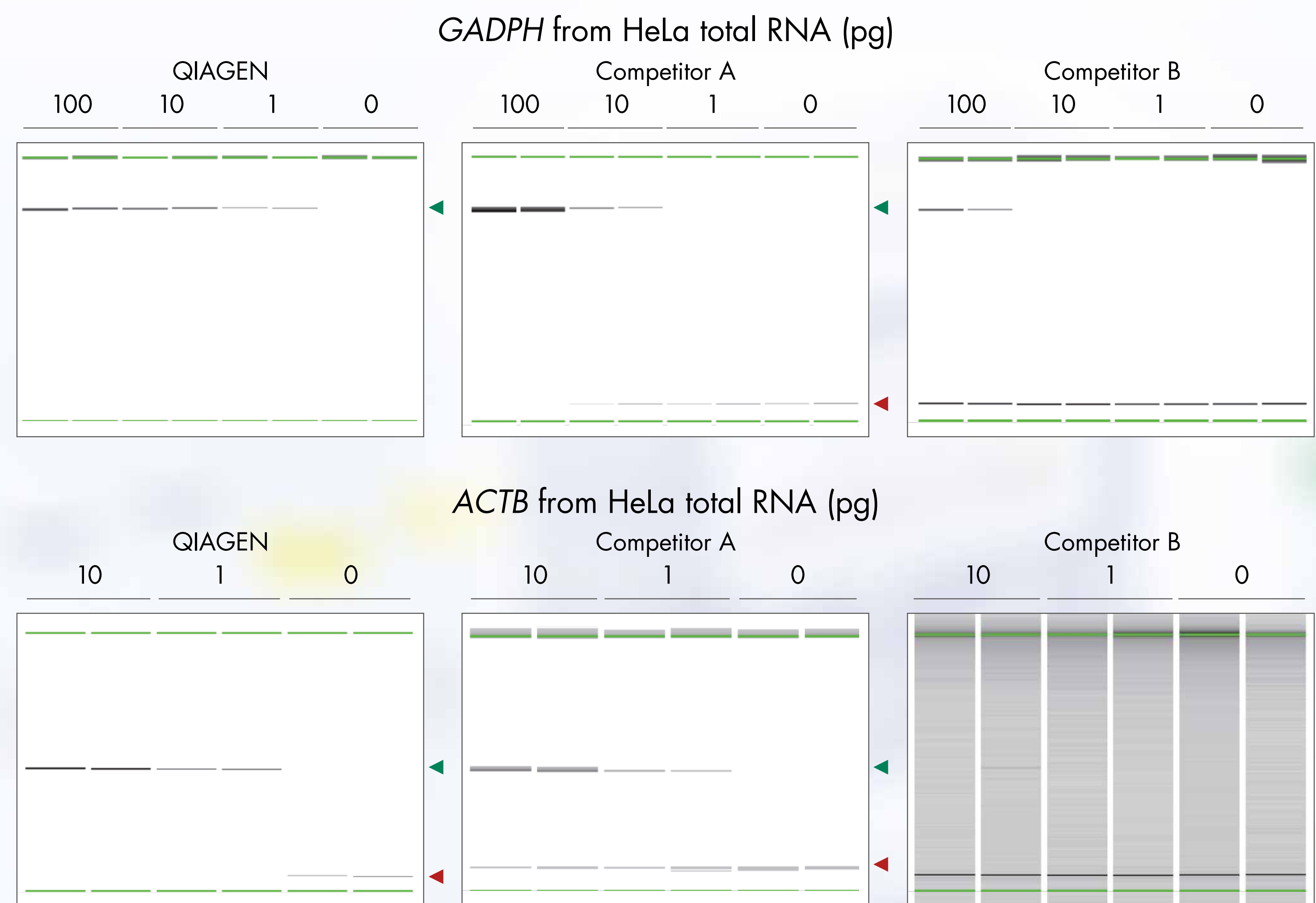
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Sensitive and specific detection of low RNA content samples



Superior sensitivity and specificity

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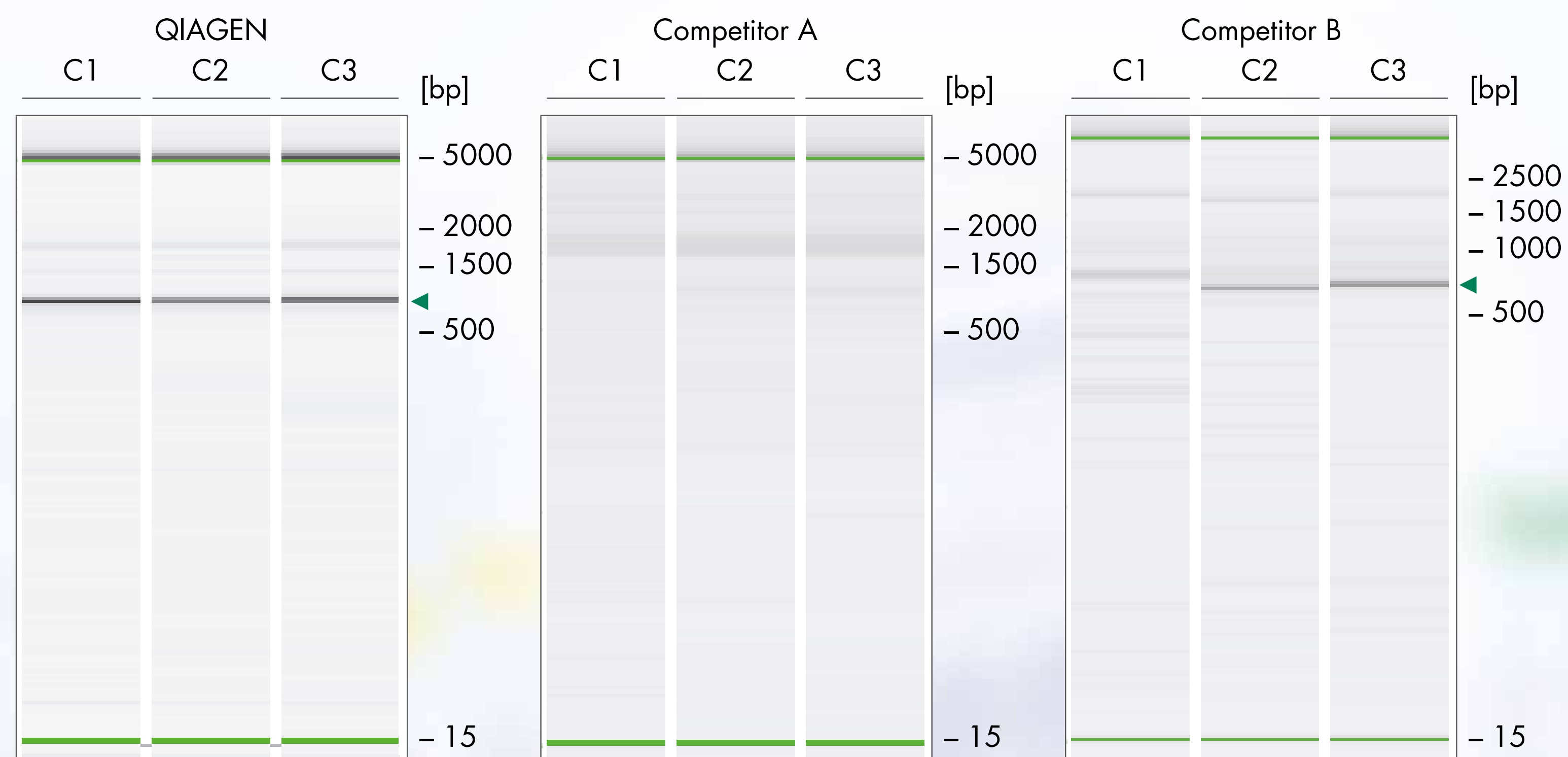
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No loss of sensitivity with even the most challenging templates



TNFRI (581 bp) with a GC ratio of 67.1% was amplified from HeLa total RNA (100 ng), in triplicate.



Q-Solution facilitates reliable reverse transcription of GC-rich templates