

QuantiNova SYBR Green PCR Kit

Ultrafast, highly sensitive, SYBR Green real-time PCR

Overview

Procedure

Stringent hot start

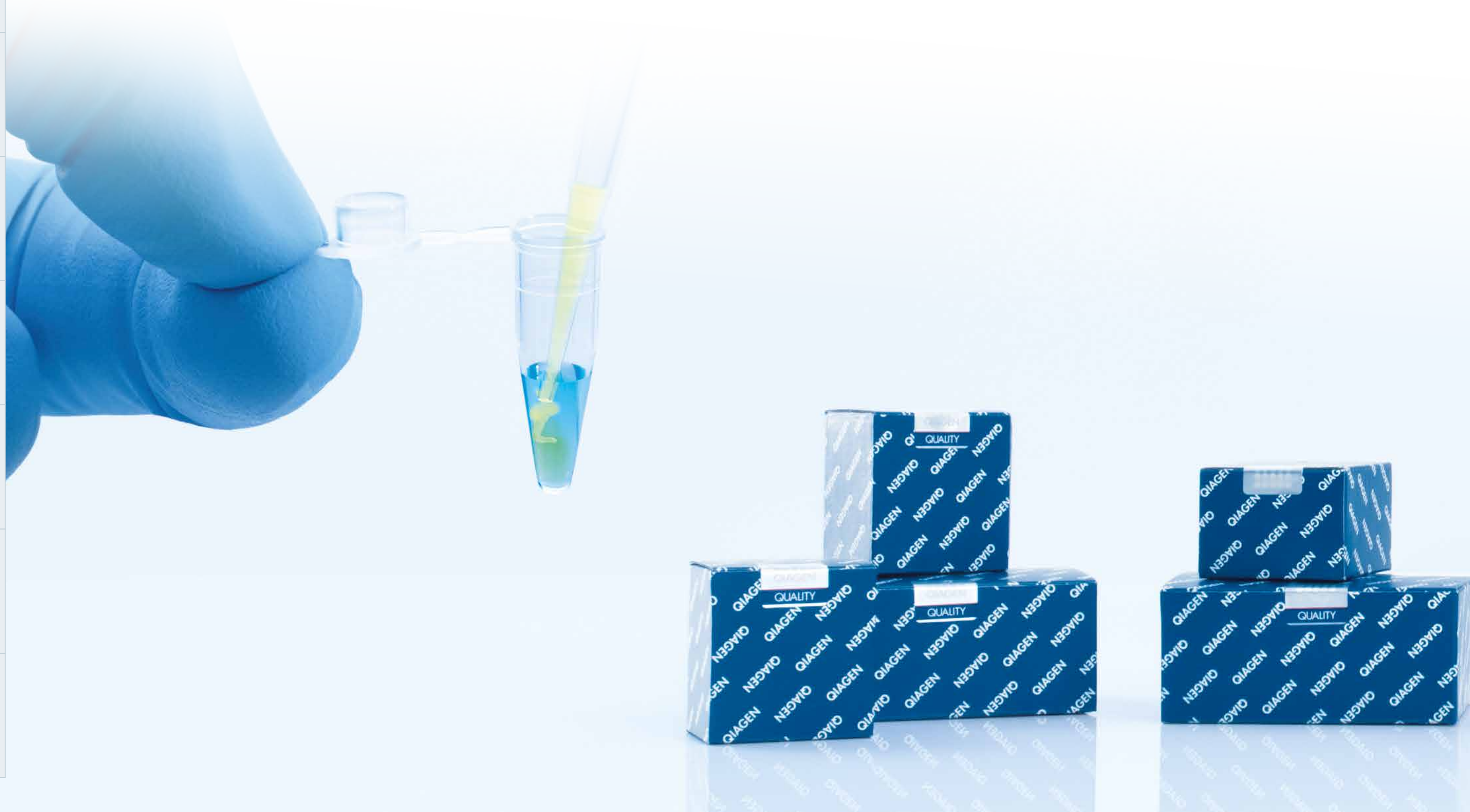
Single copy detection

Wide dynamic range

Superior precision

For all cyclers

Ordering information



Ultrafast procedure with built-in pipetting control

Overview

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Stringent
Hot Start

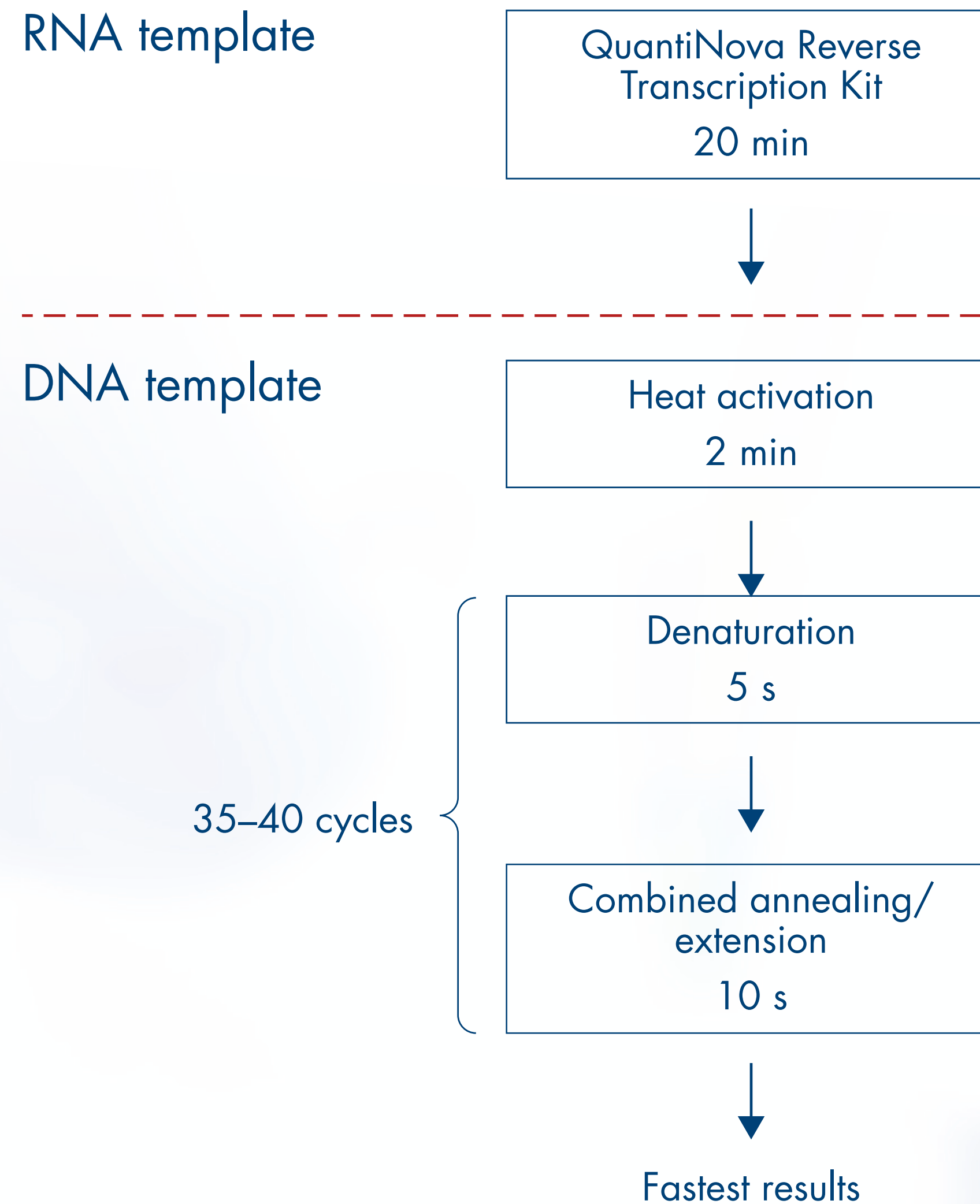
Single Copy
Detection

Wide Dynamic
Range

Superior
Precision

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Download
Quick-Start
Protocol

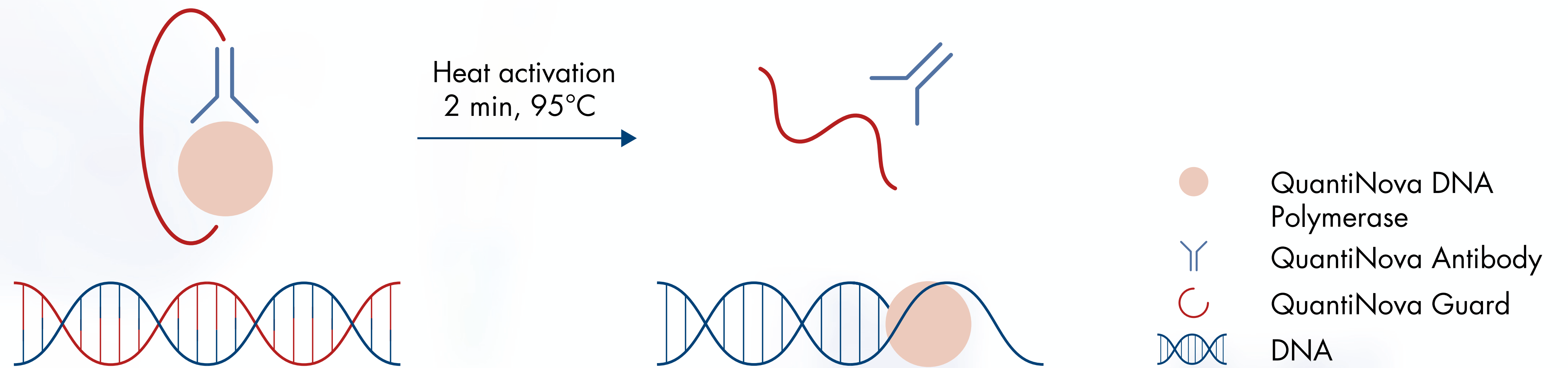
- Fastest cycling conditions
- Simple, color change verifies correct pipetting

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True, room-temperature setup with antibody-mediated hot start

Inactive QuantiNova DNA Polymerase

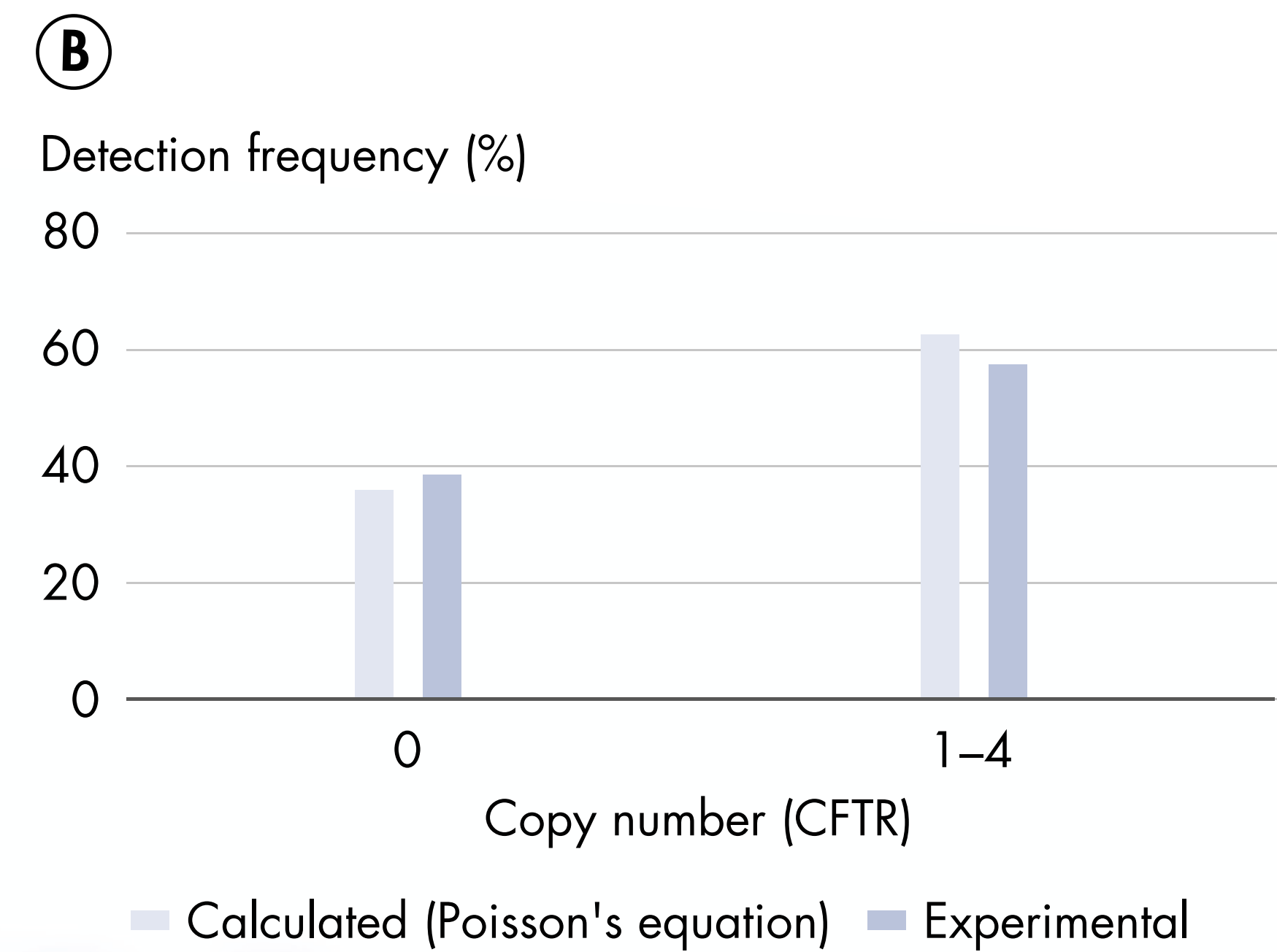
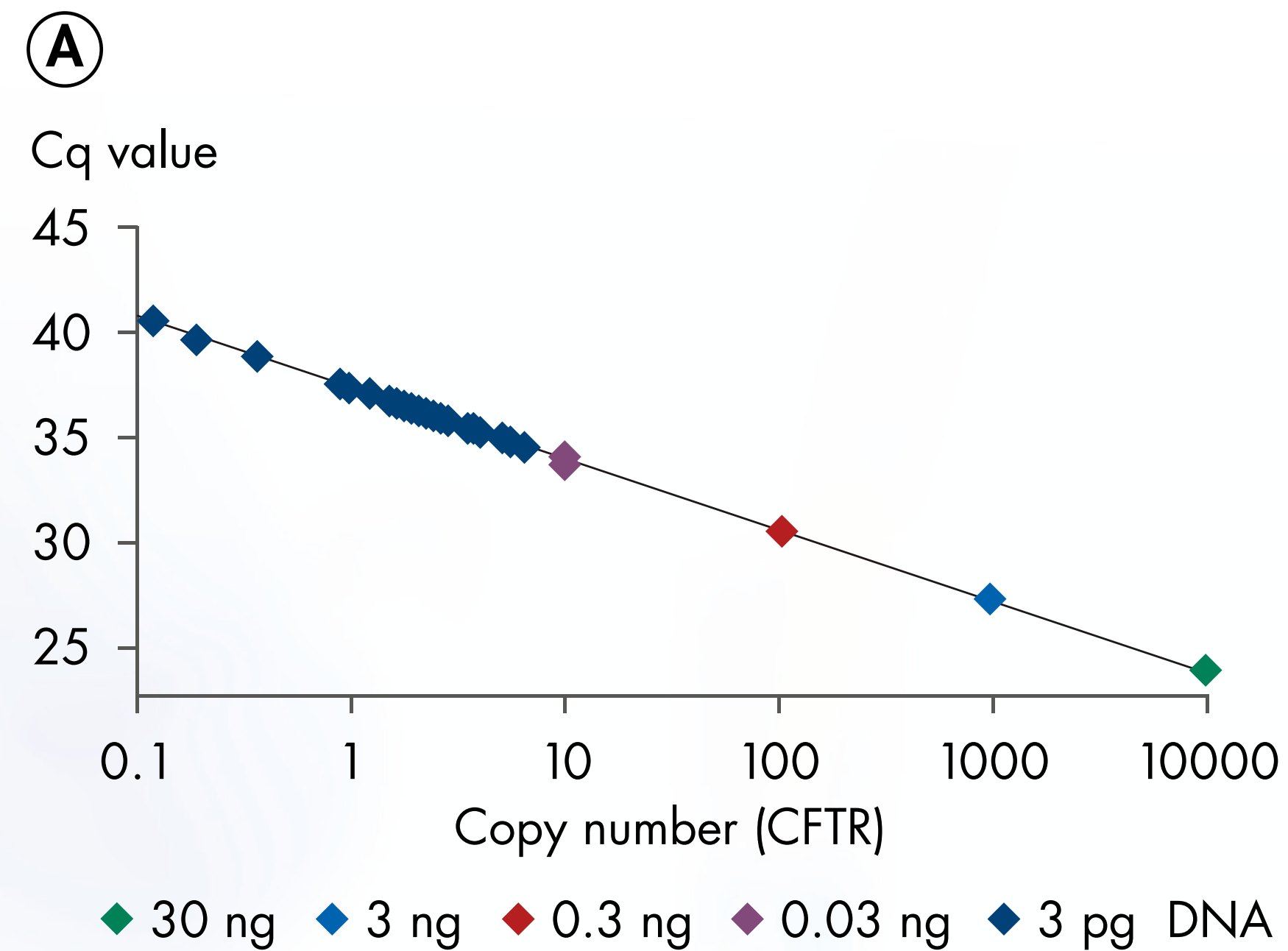
Active QuantiNova DNA Polymerase



Our stringent hot start prevents primer dimer formation and extension of non-specific products

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Sensitive detection – even single target molecules



The calculated and experimental detection frequencies were highly concordant, demonstrating high sensitivity and robustness



Robust detection of rare targets

Accurate quantitation over a wide dynamic range

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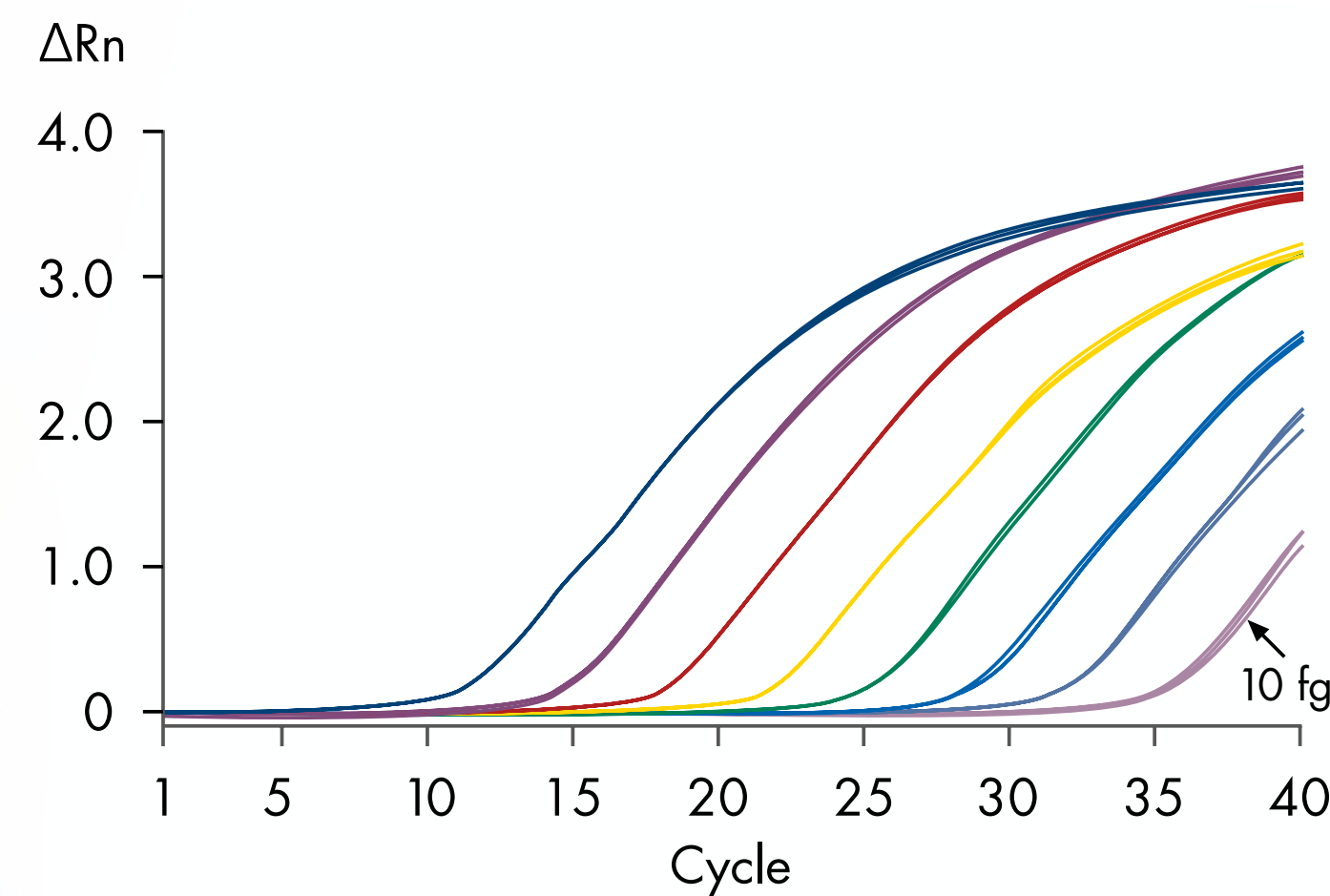
Ordering Information

A

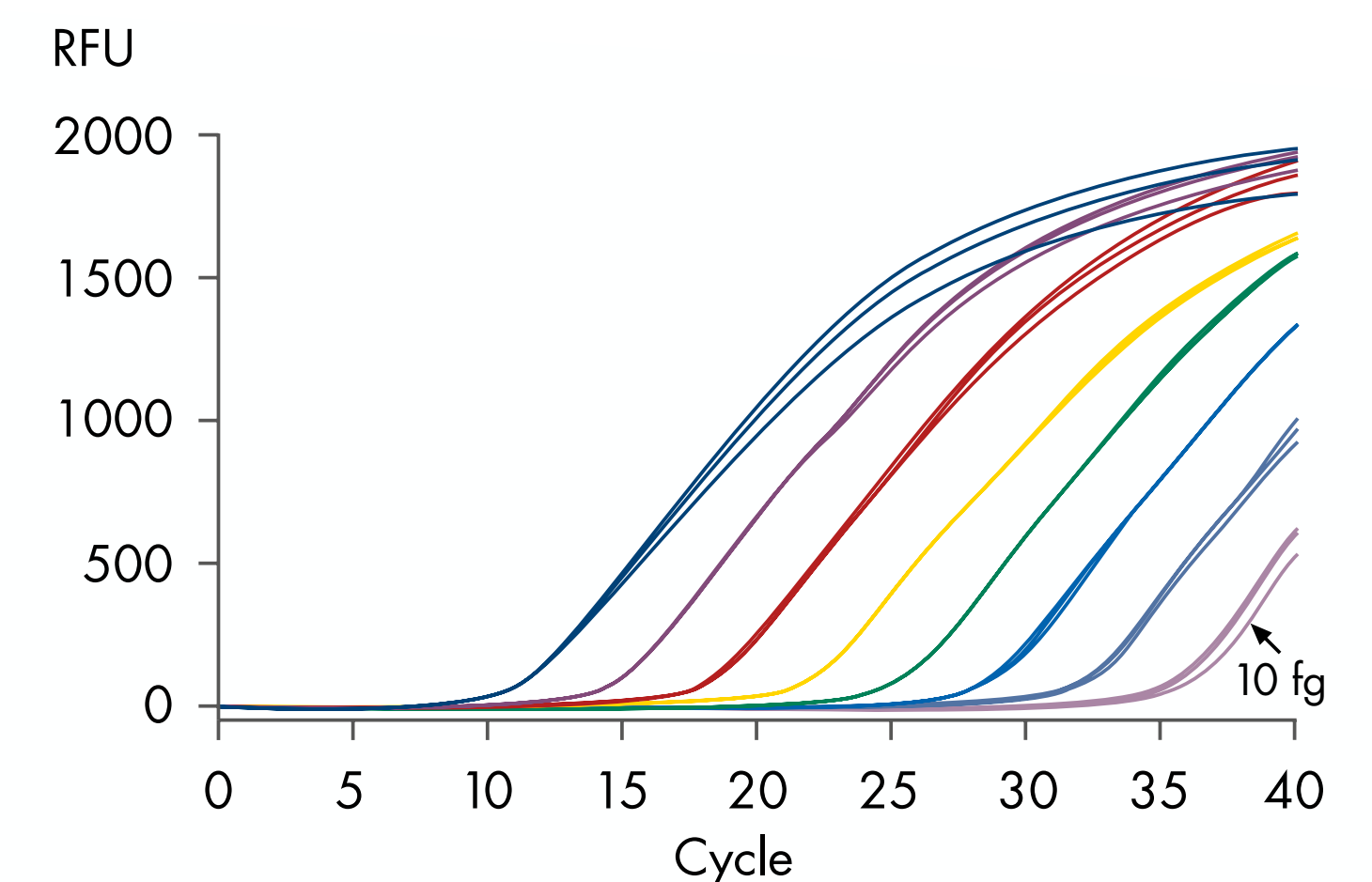
HeLa cDNA	ViiA 7	CFX96
100 ng	11.33	11.55
10 ng	14.67	14.94
1 ng	18.11	18.37
100 pg	21.74	22.12
10 pg	25.08	25.40
1 pg	28.57	28.74
100 fg	31.85	32.29
10 fg	35.39	36.02
No template control	–	–
PCR efficiency	95%	94%

B

Applied Biosystems ViiA 7



Bio-Rad CFX96



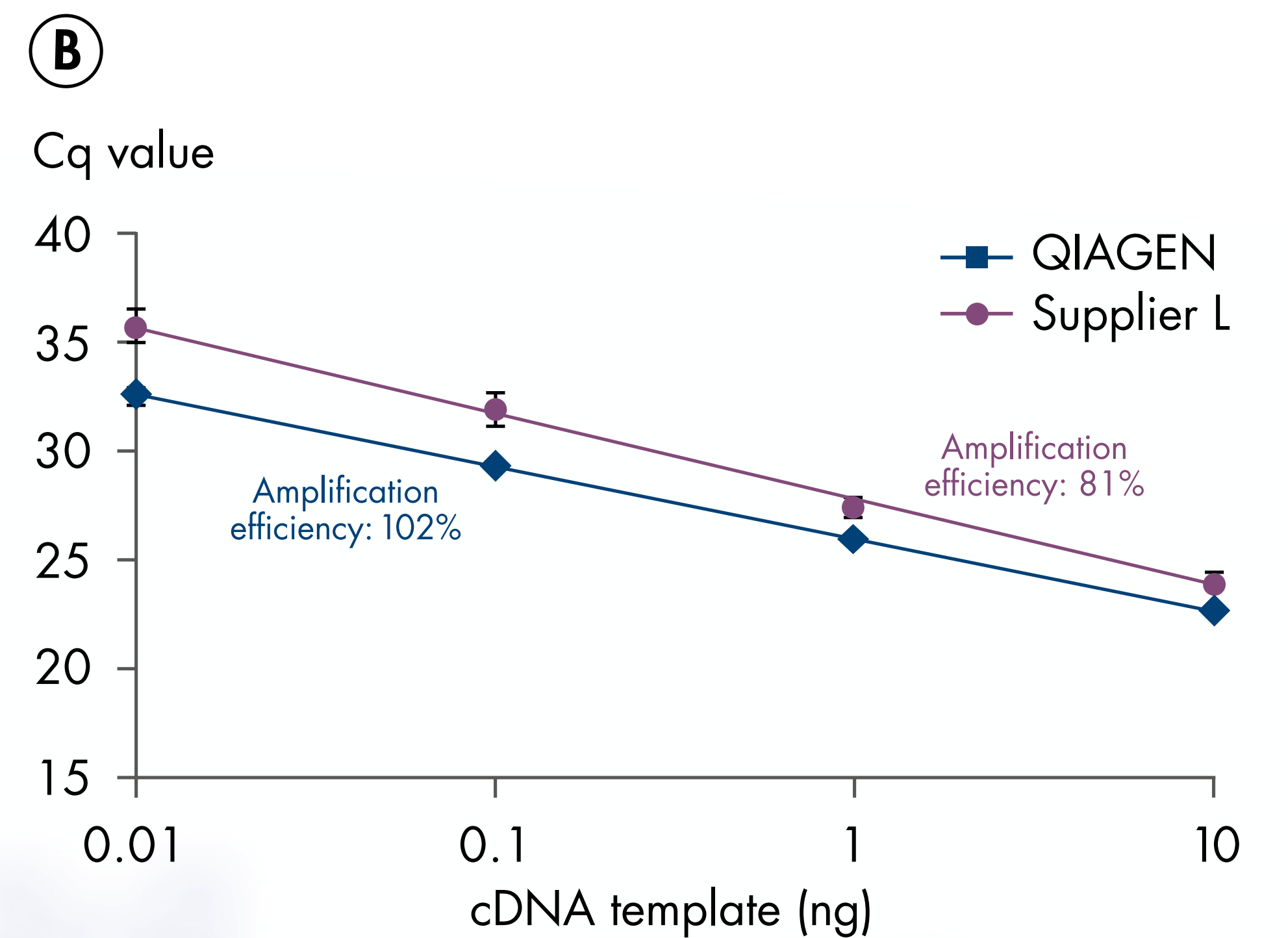
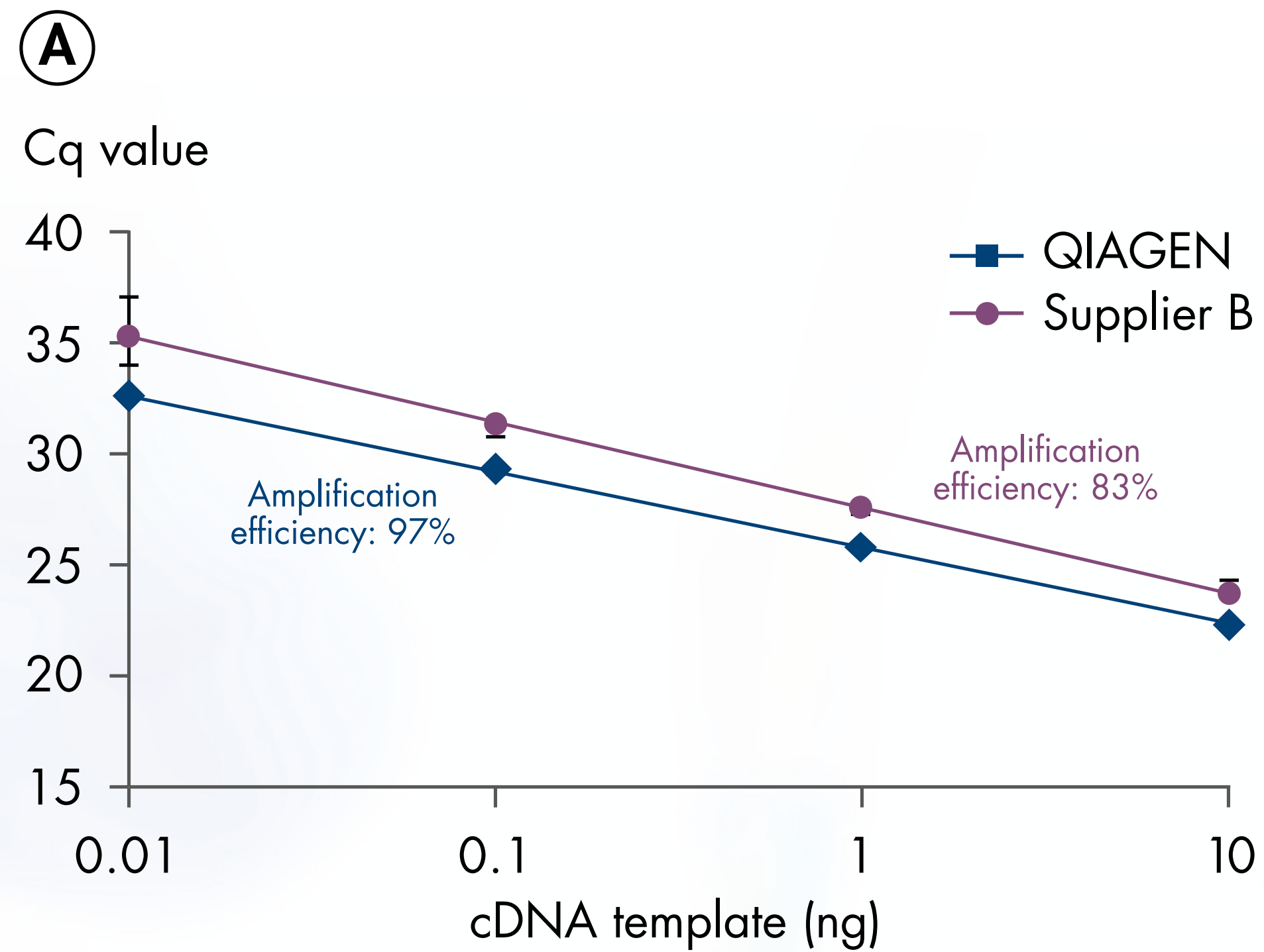
Ten-fold dilutions of HeLa cDNA were assayed for beta-actin.



Accurate quantitation over an 8 log dynamic range

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Superior assay precision



Ten-fold dilutions of plasmid DNA were assayed using QuantiTect Primer assays for EGFR.



Higher reproducibility and reaction efficiency

Consistently high performance regardless of cycler, cycling conditions or presence of ROX

Overview

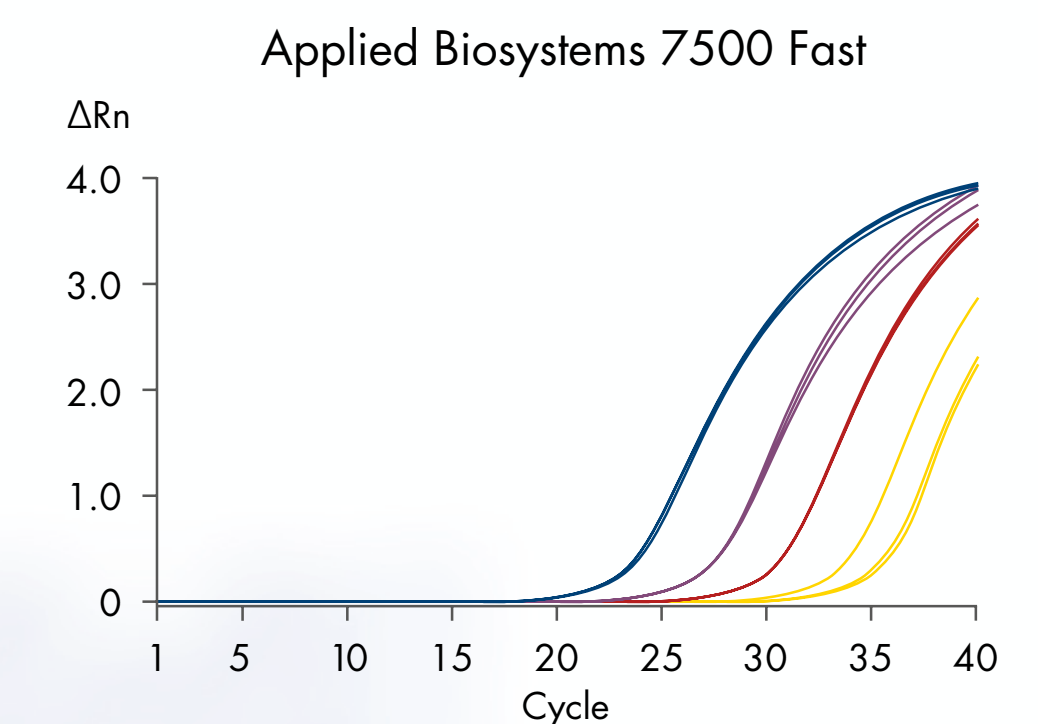
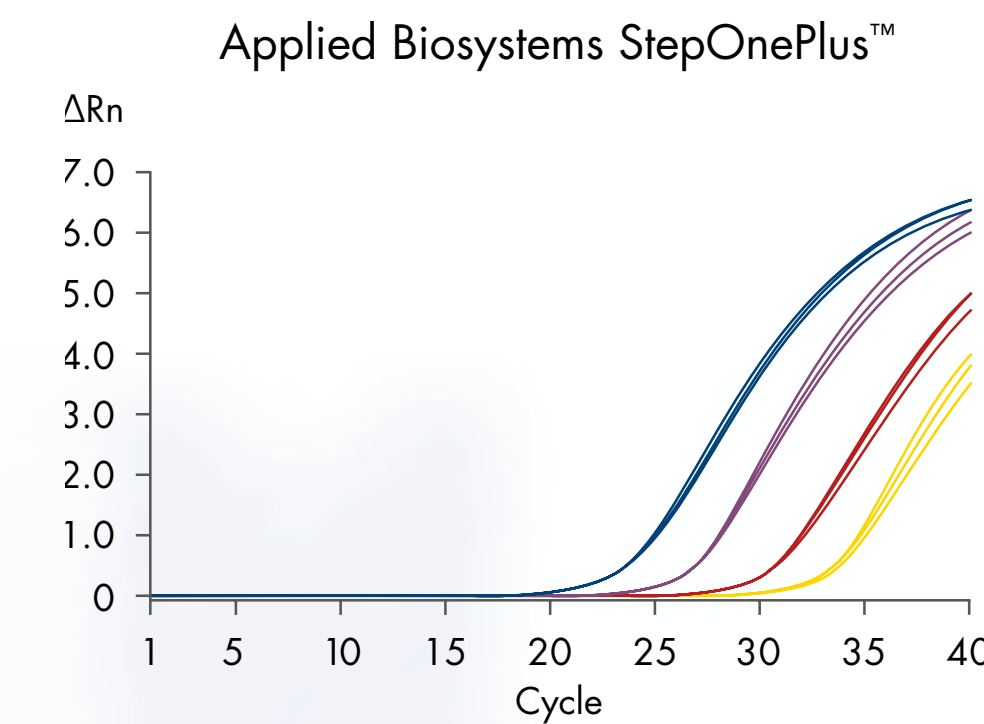
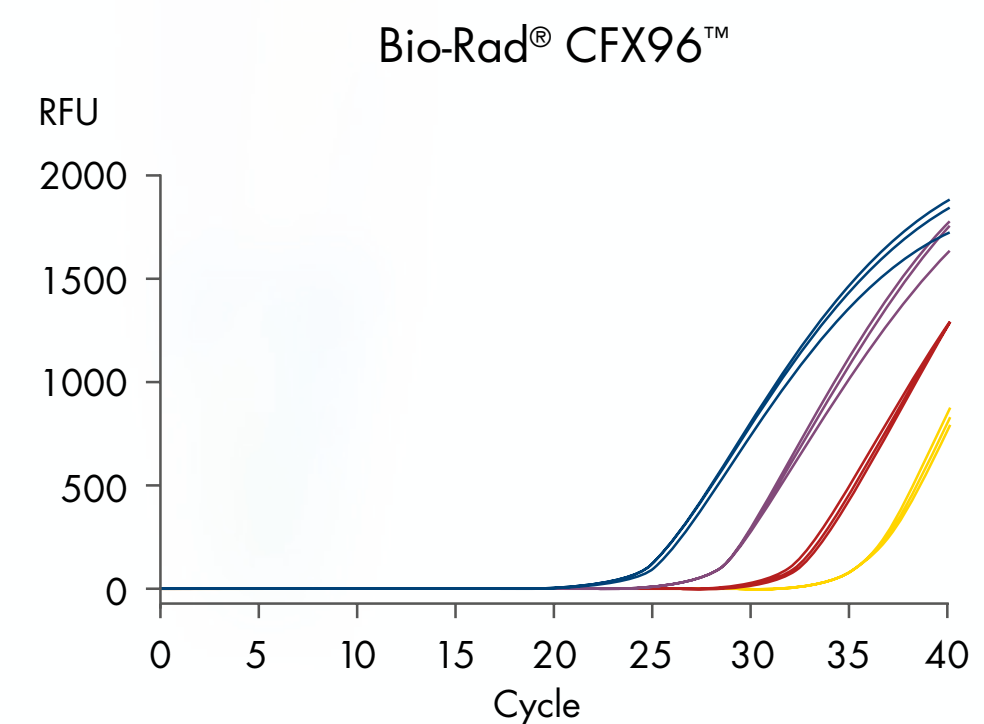
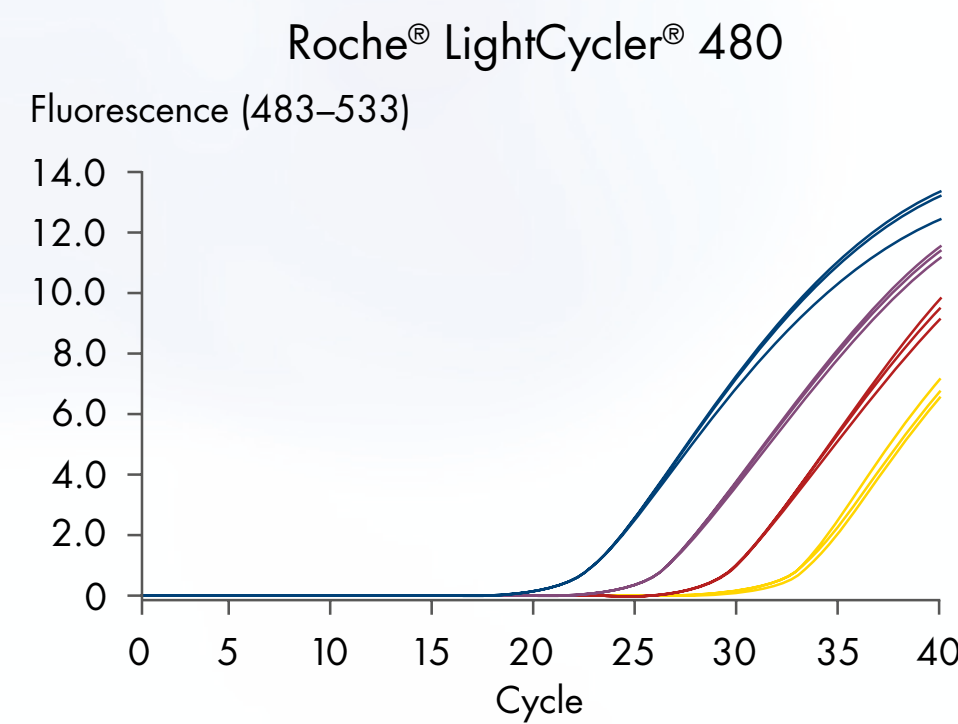
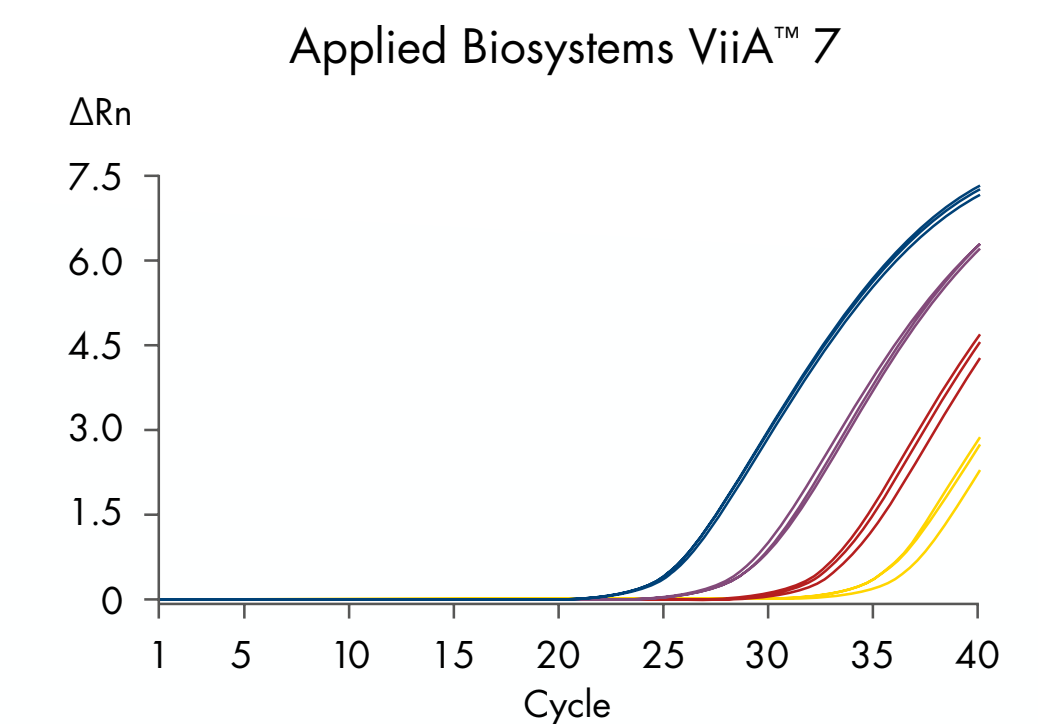
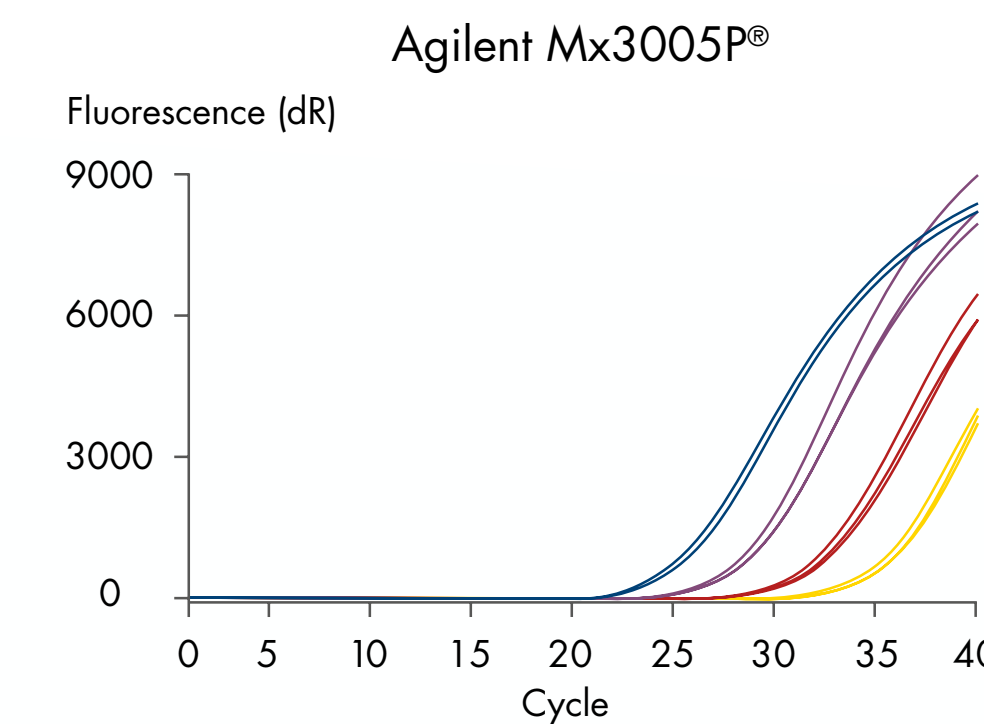
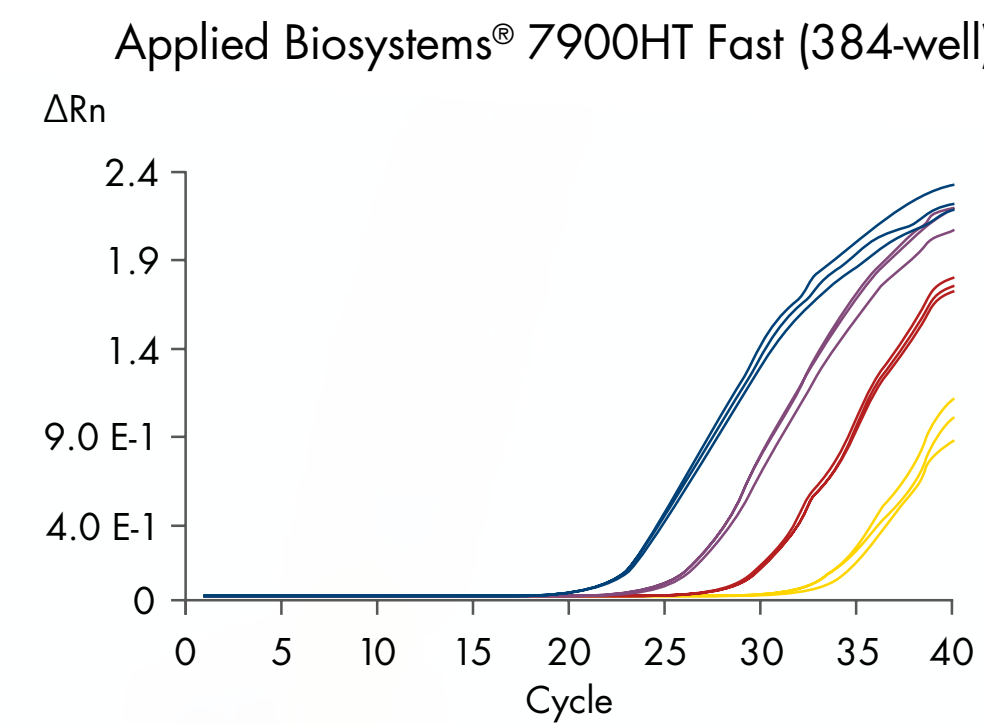
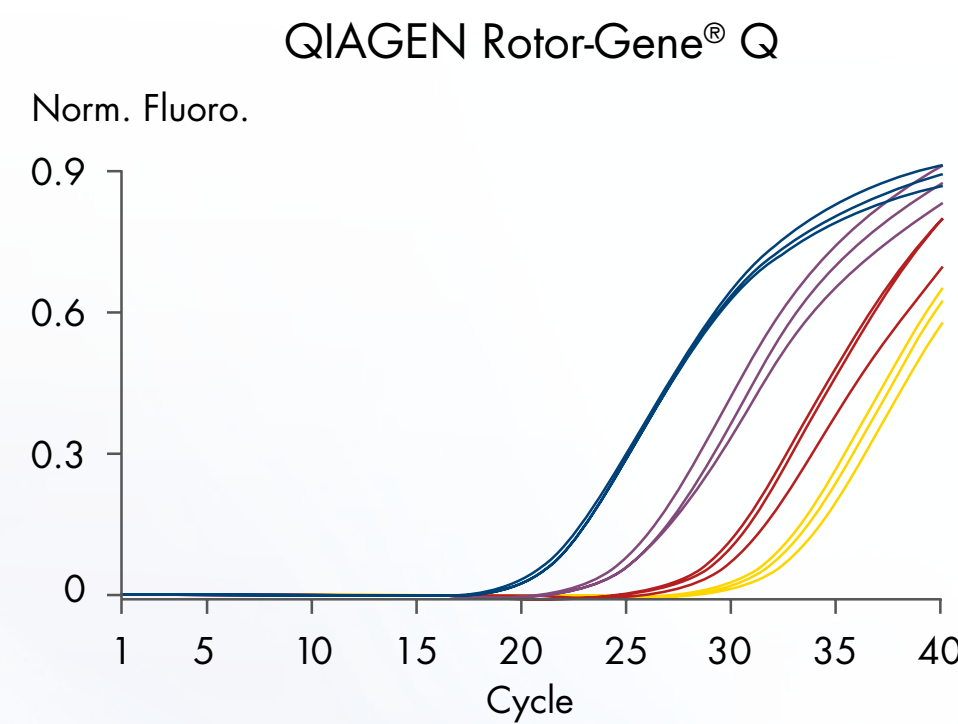
Procedure

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Single Copy Detection

Wide Dynamic Range

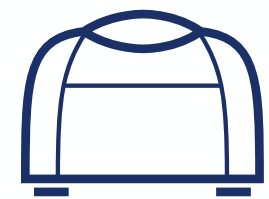
Superior Precision



For All Cyclers

Expression of EGFR in HeLa cells was analyzed using a QuantiTect Primer Assay and Reverse Transcription Kit. Dilutions of the resulting cDNA from 10 ng to 0.01 ng were amplified on 8 different cyclers.

Ordering Information



Reliable and consistent results with various real-time PCR cyclers

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Product	Description	Cat. no.
<u>QuantiNova SYBR Green PCR Kit (100)</u>	For 100 x 20 µl reactions: 1 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl QN ROX Reference Dye, 1.9 ml Water	208052
<u>QuantiNova SYBR Green PCR Kit (500)</u>	For 500 x 20 µl reactions: 3 x 1.7 ml 2x QuantiNova SYBR Green PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 1 ml QN ROX Reference Dye, 1.9 ml Water	208054
<u>QuantiNova SYBR Green PCR Kit (2500)</u>	For 2500 x 20 µl reactions: 15 x 1.7 ml 2x QuantiNova SYBR Green PCR Master Mix, 5 x 500 µl QuantiNova Yellow Template Dilution Buffer, 5 x 1 ml QN ROX Reference Dye, 5 x 1.9 ml Water	208056

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