

QuantiNova SYBR Green PCR Kit

Ultrafast, highly sensitive, SYBR Green real-time PCR

Overview

Procedure

Stringent hot start

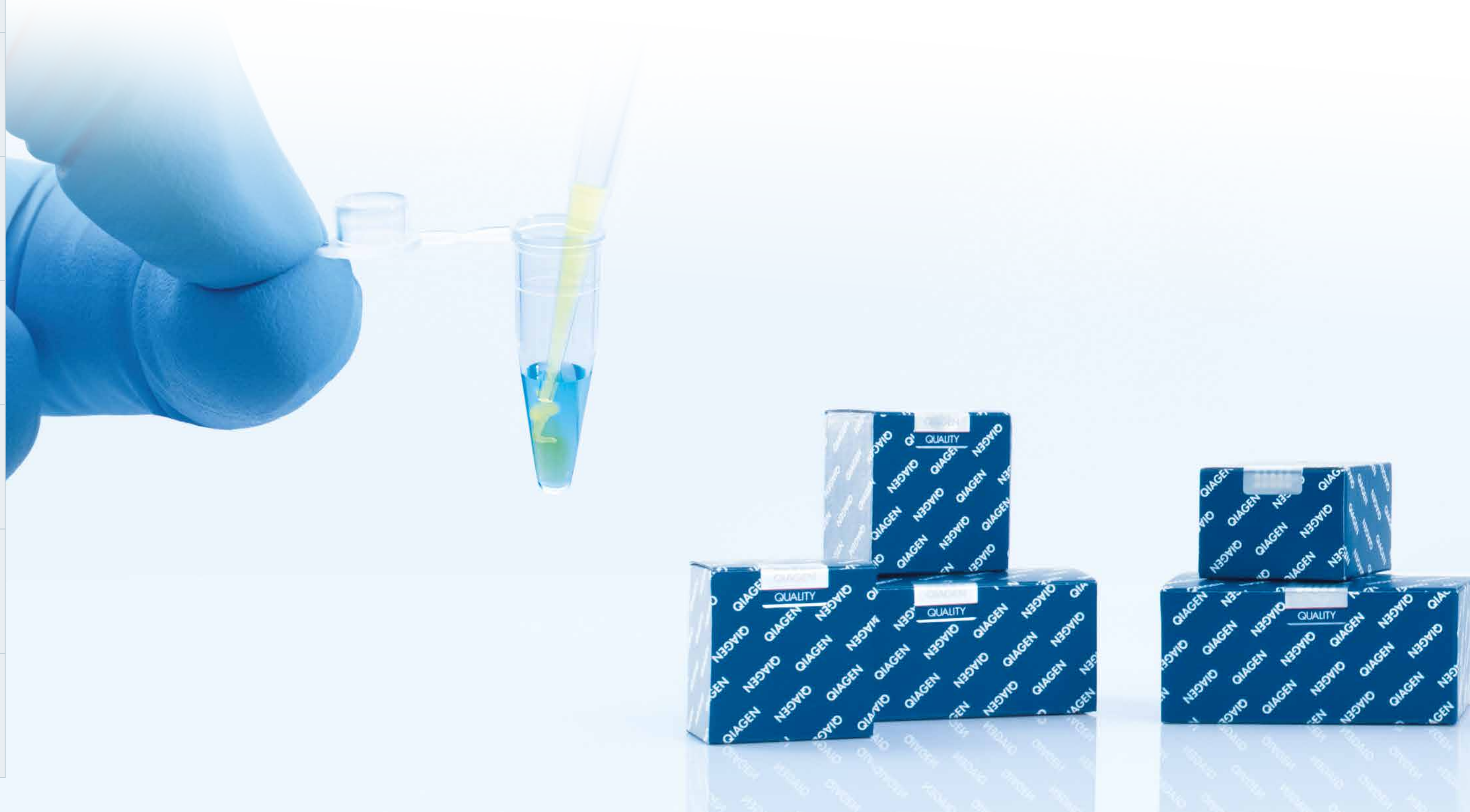
Single copy detection

Wide dynamic range

Superior precision

For all cyclers

Ordering information



Ultrafast procedure with built-in pipetting control

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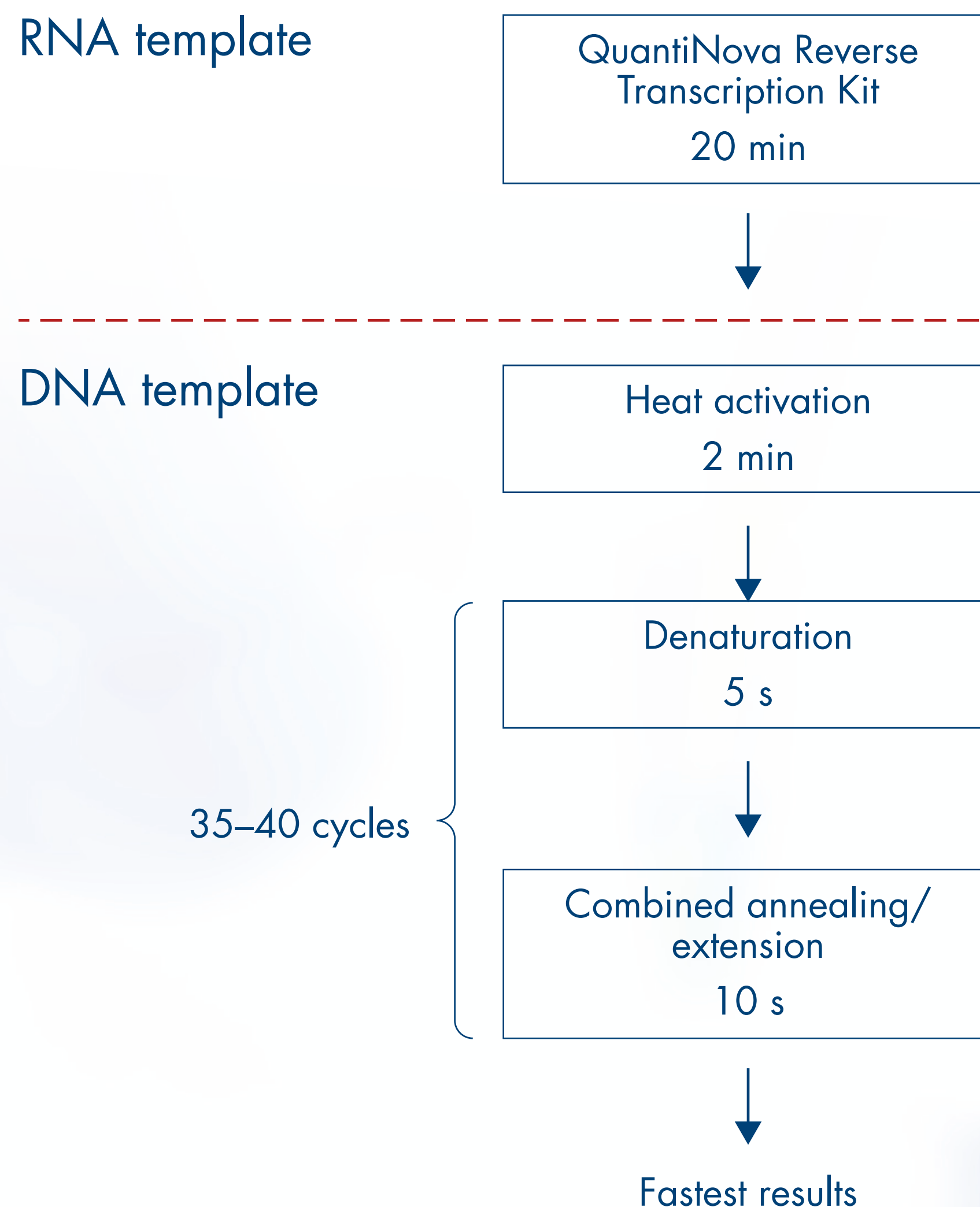
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Download
Quick-Start
Protocol

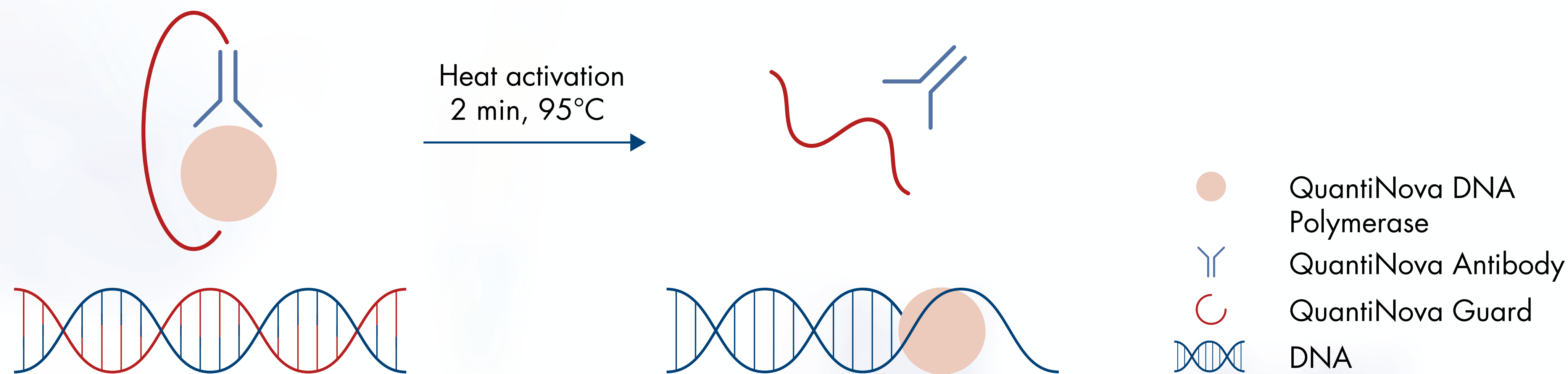
- Fastest cycling conditions
- Simple, color change verifies correct pipetting

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

Inactive QuantiNova DNA Polymerase

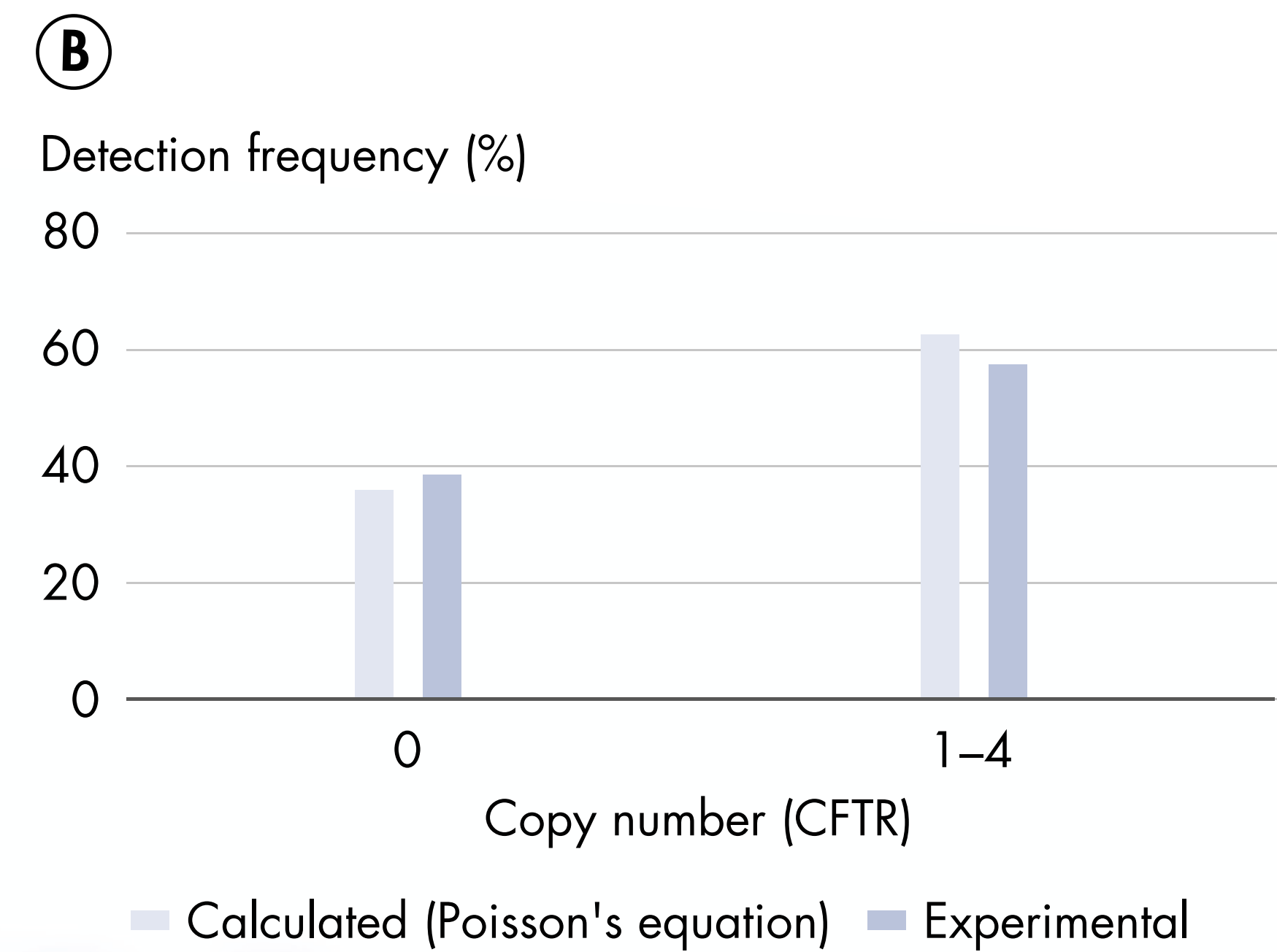
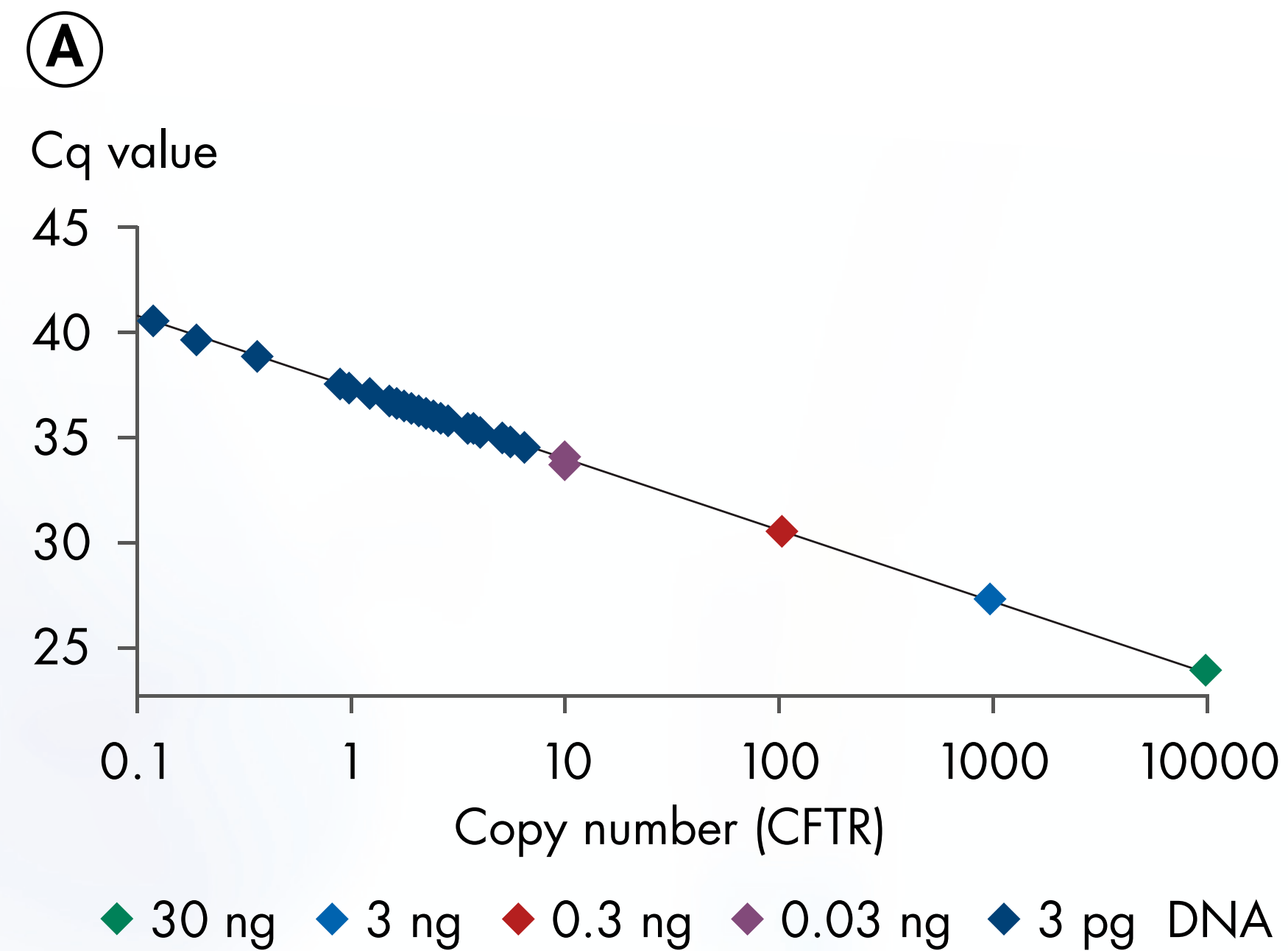
Active QuantiNova DNA Polymerase



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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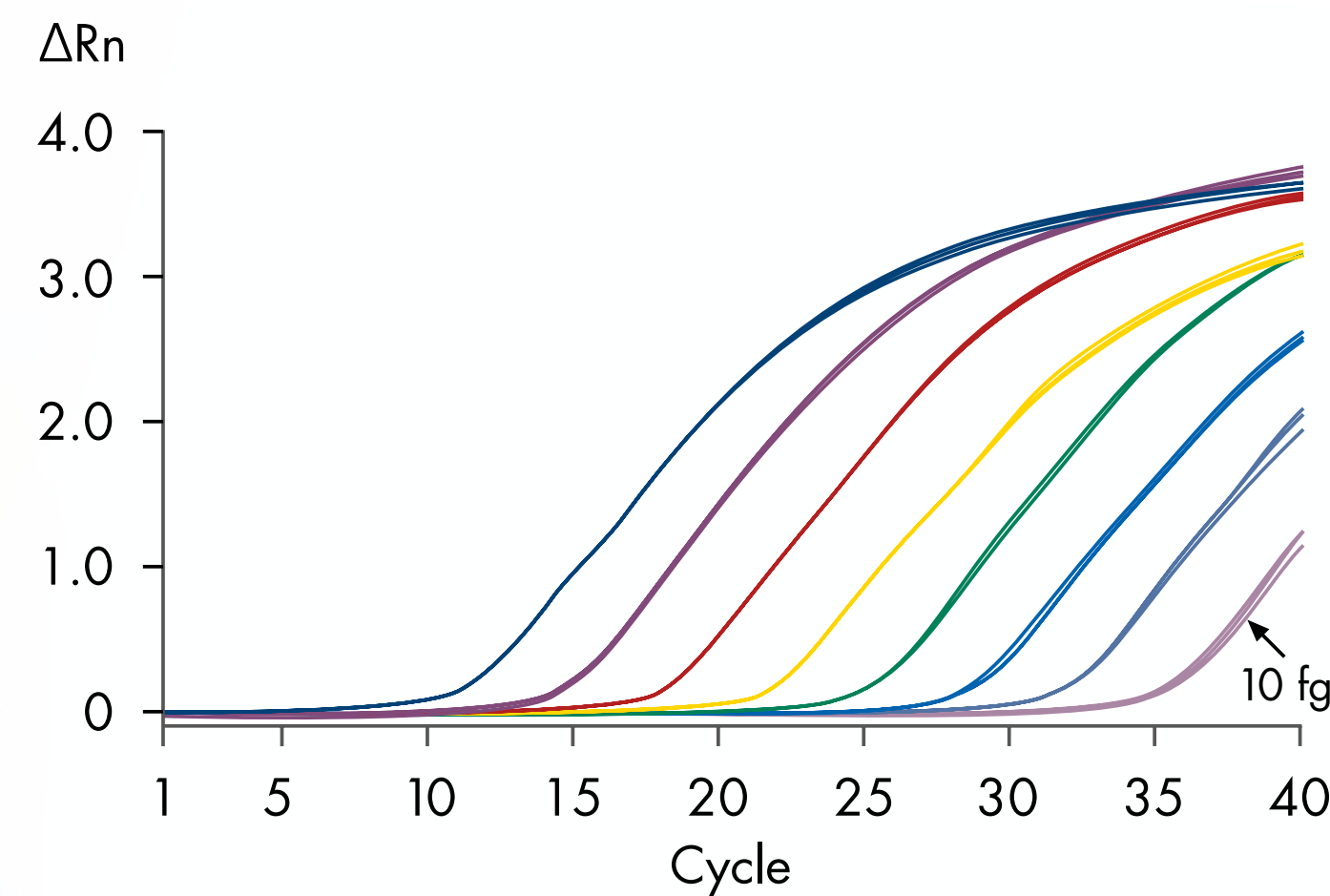
Ordering information

A

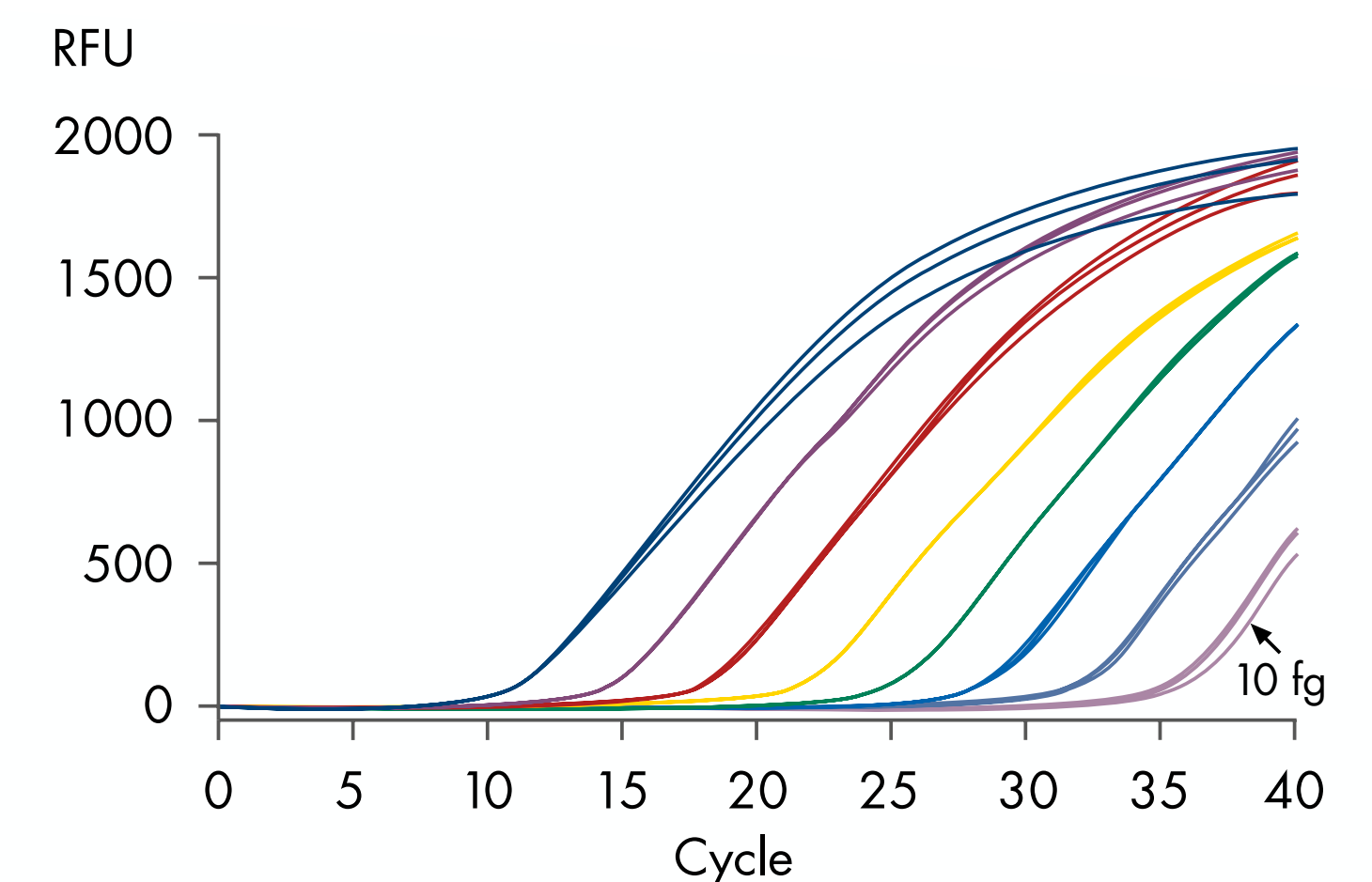
HeLa cDNA	ViiA 7	CFX96
100 ng	11.33	11.55
10 ng	14.67	14.94
1 ng	18.11	18.37
100 pg	21.74	22.12
10 pg	25.08	25.40
1 pg	28.57	28.74
100 fg	31.85	32.29
10 fg	35.39	36.02
No template control	–	–
PCR efficiency	95%	94%

B

Applied Biosystems ViiA 7



Bio-Rad CFX96



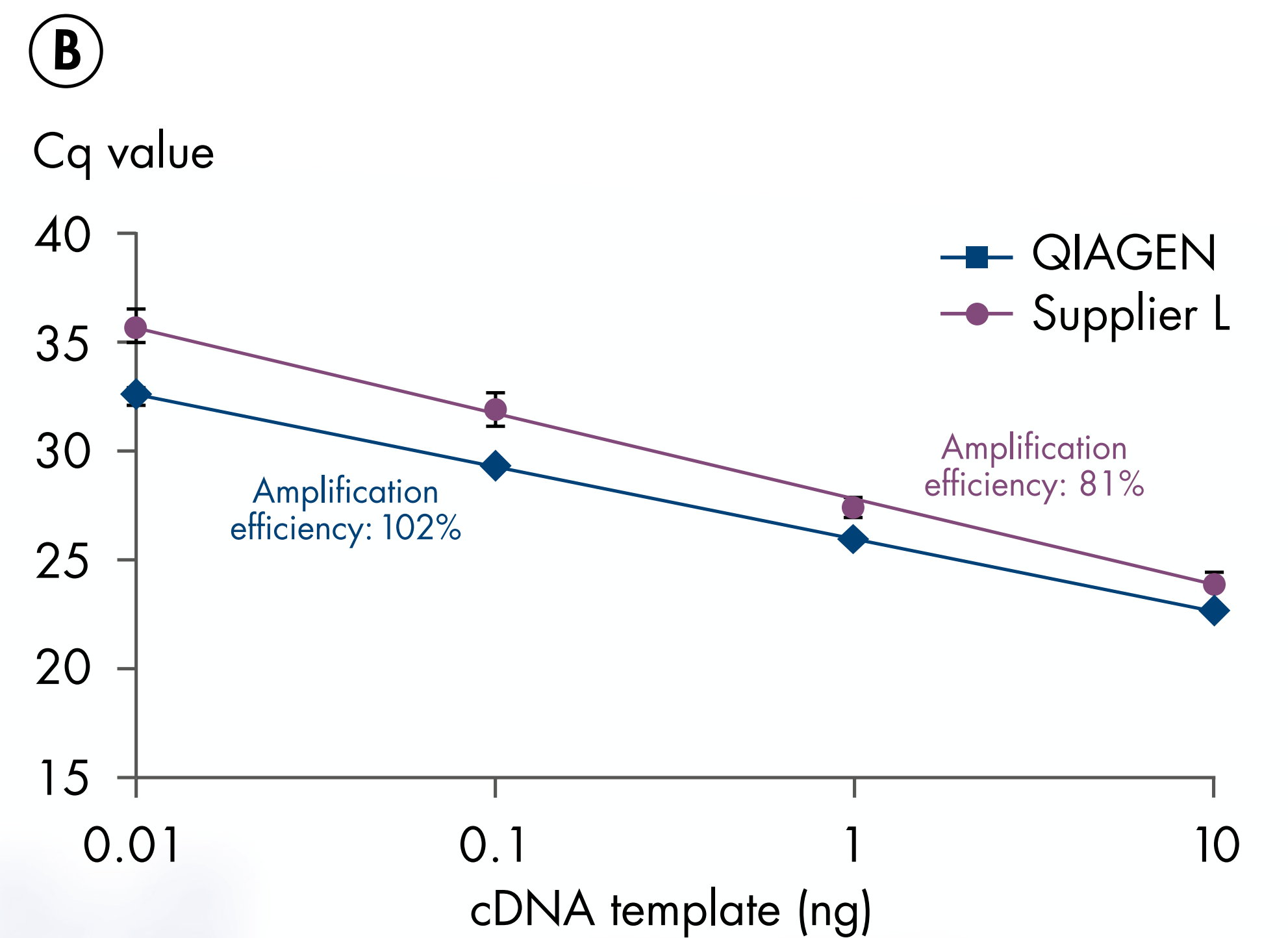
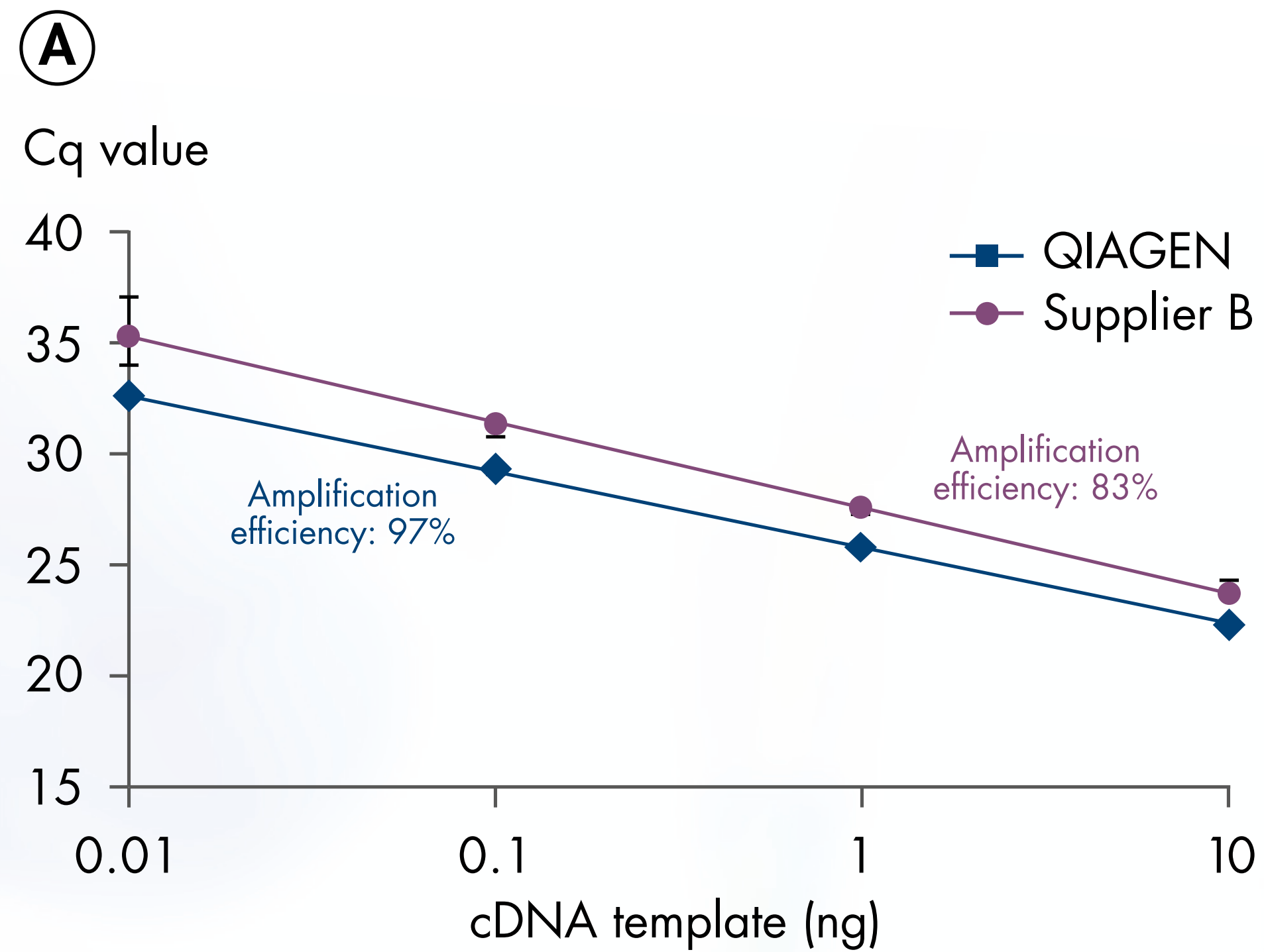
Ten-fold dilutions of HeLa cDNA were assayed for beta-actin.



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

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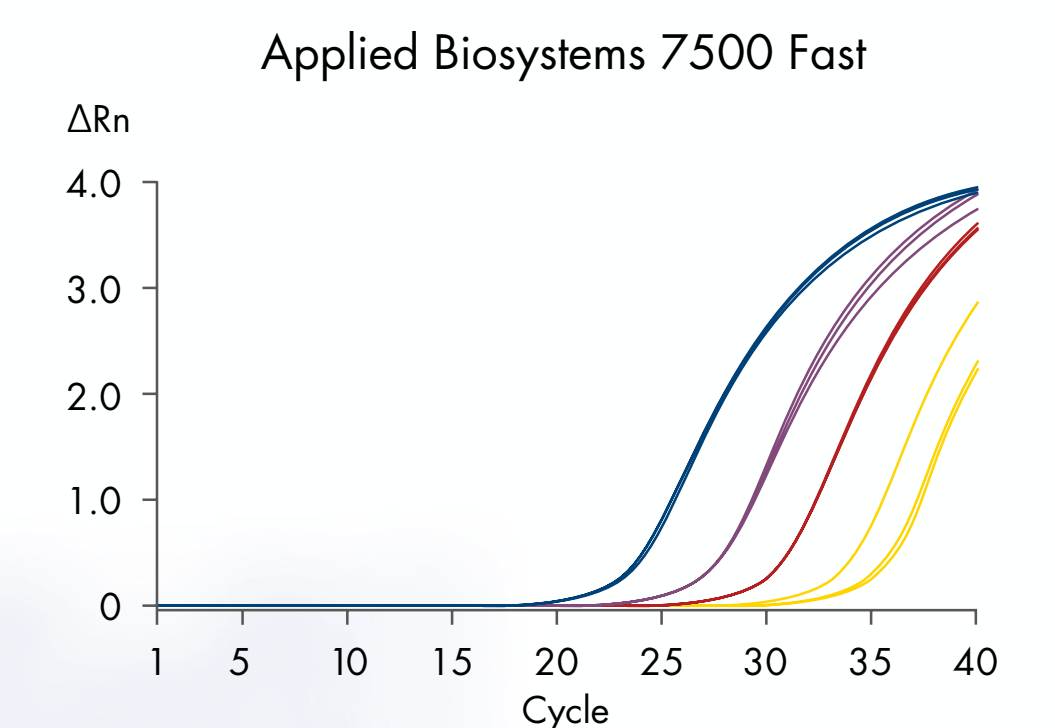
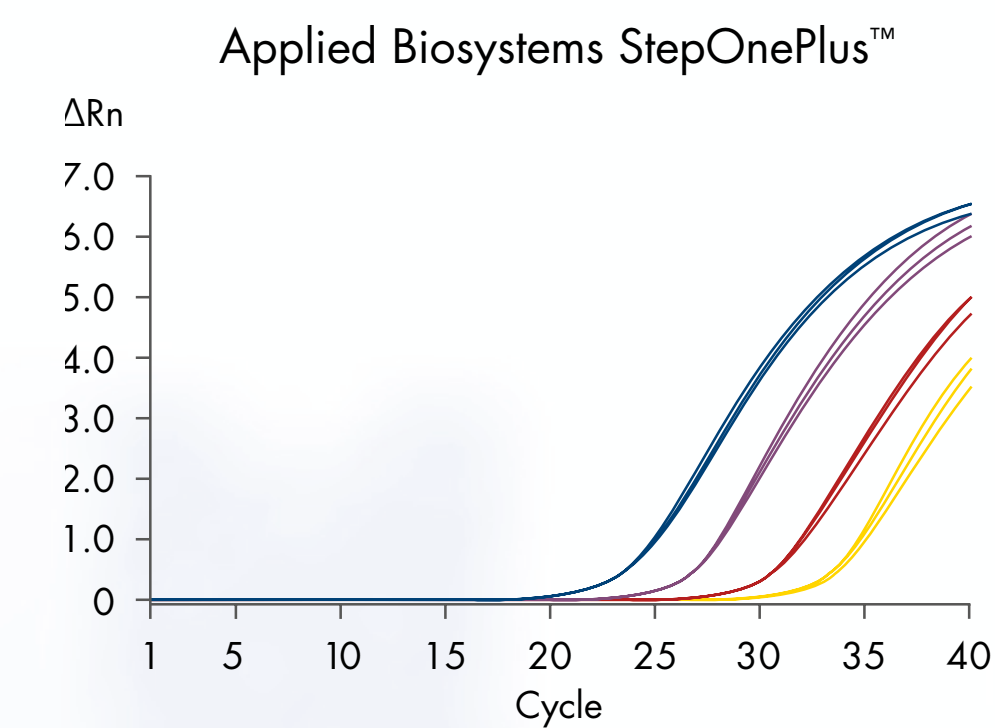
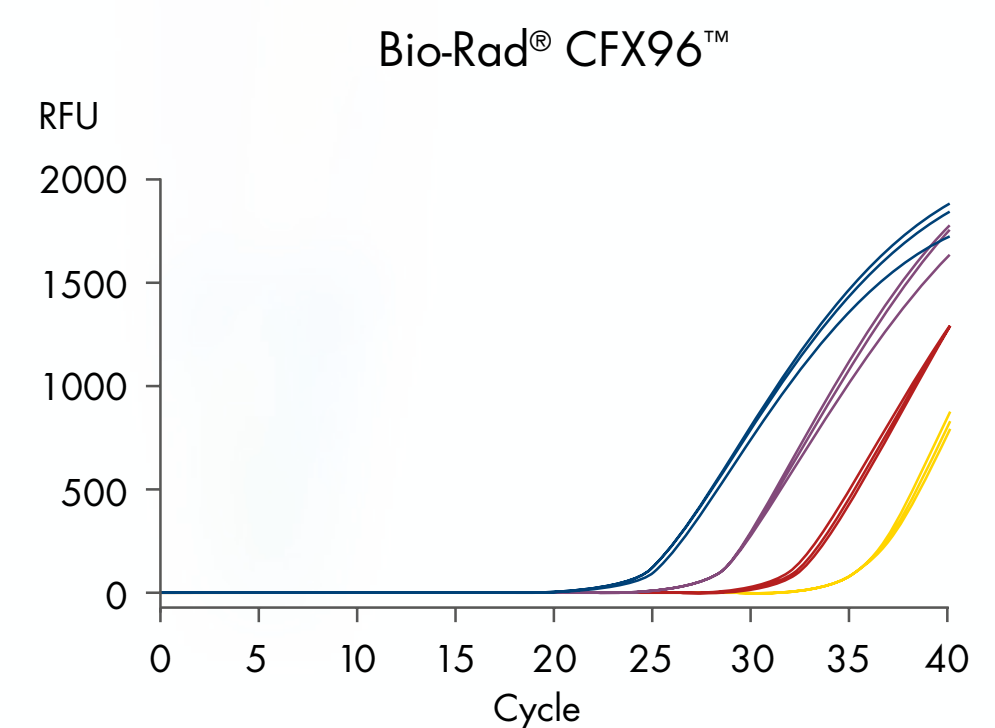
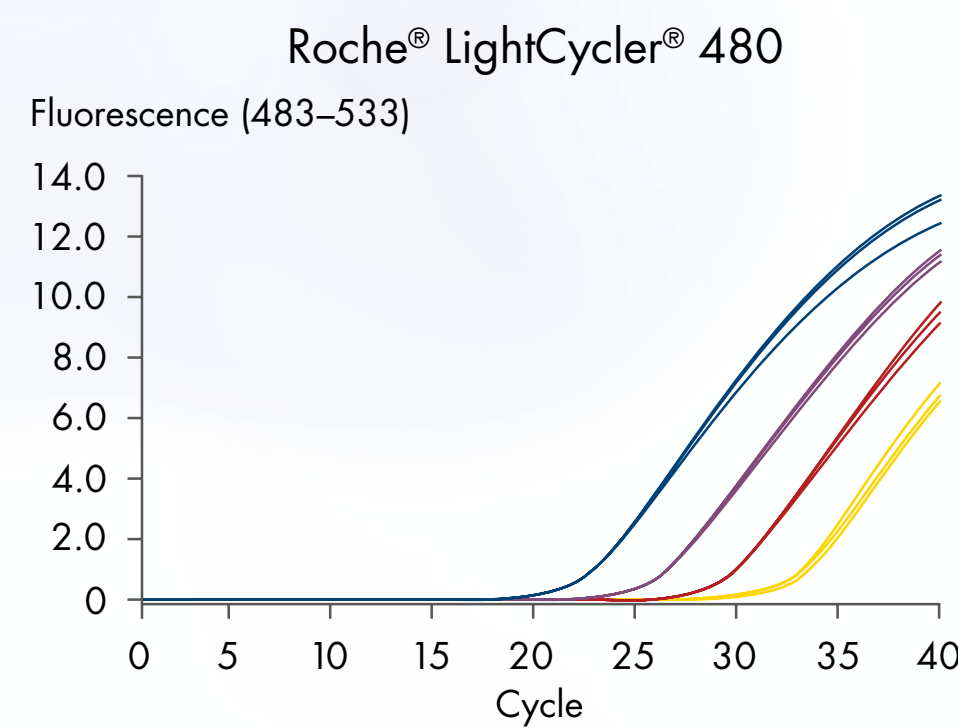
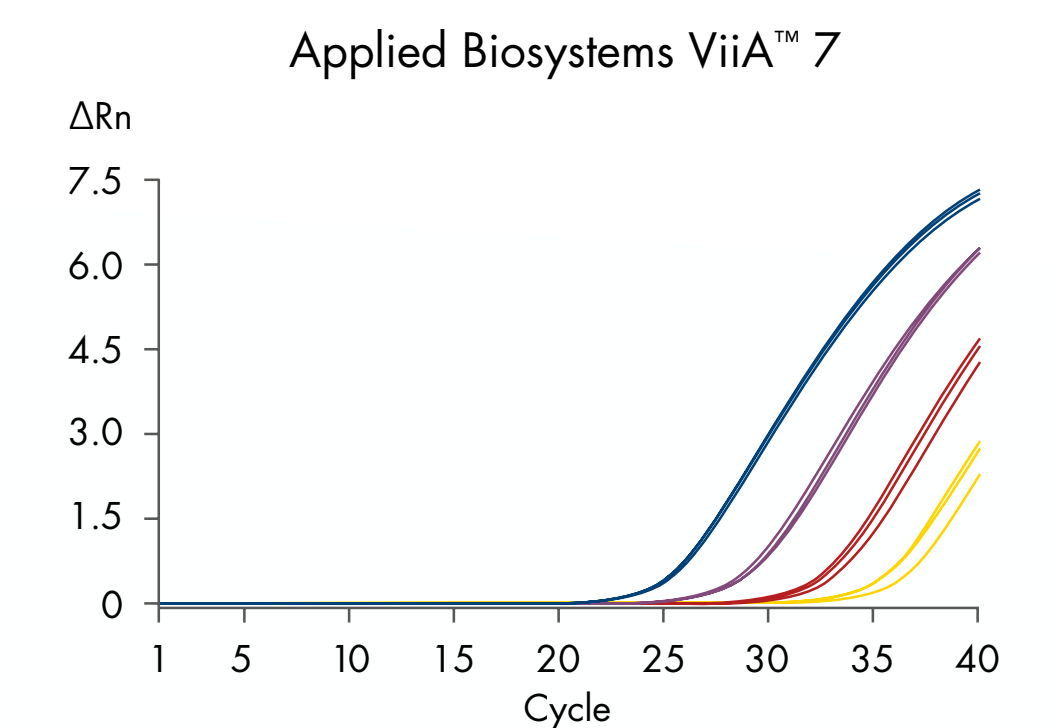
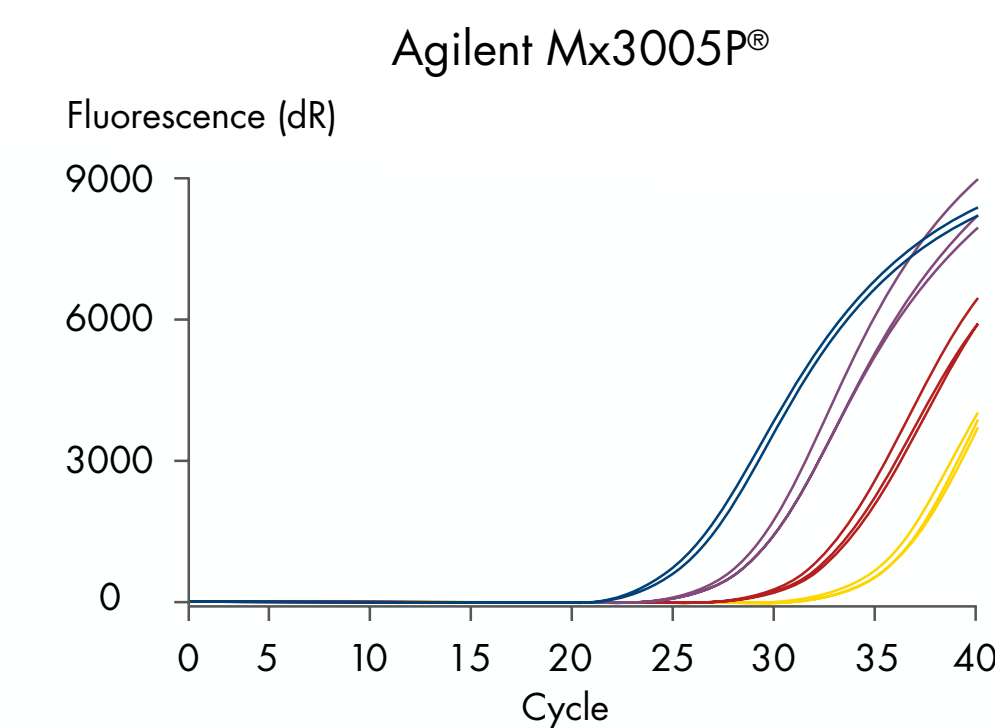
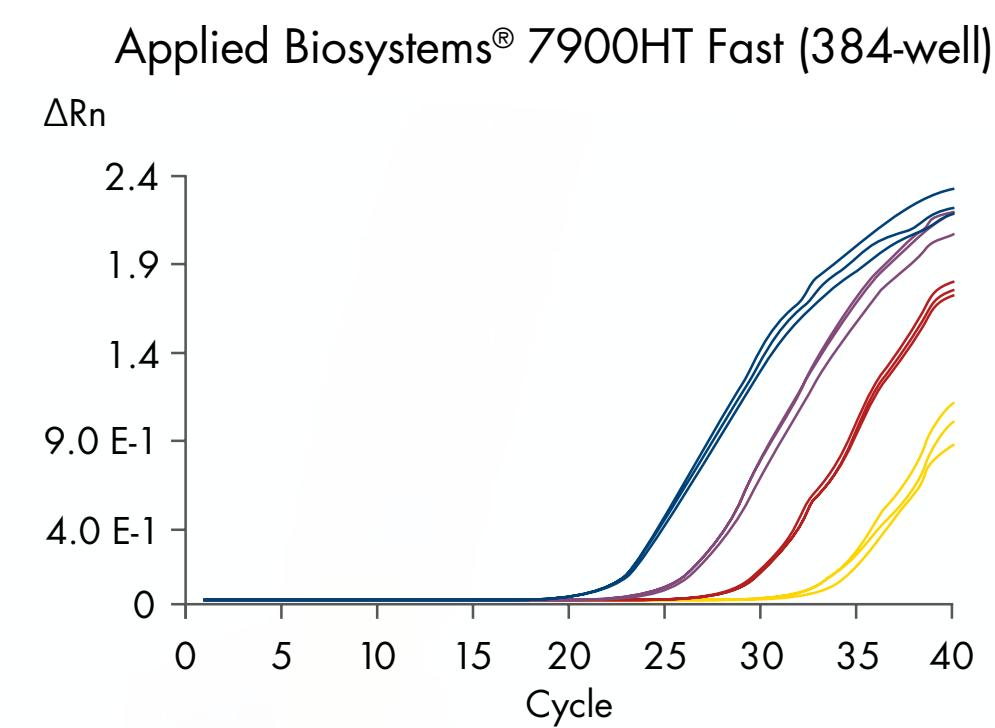
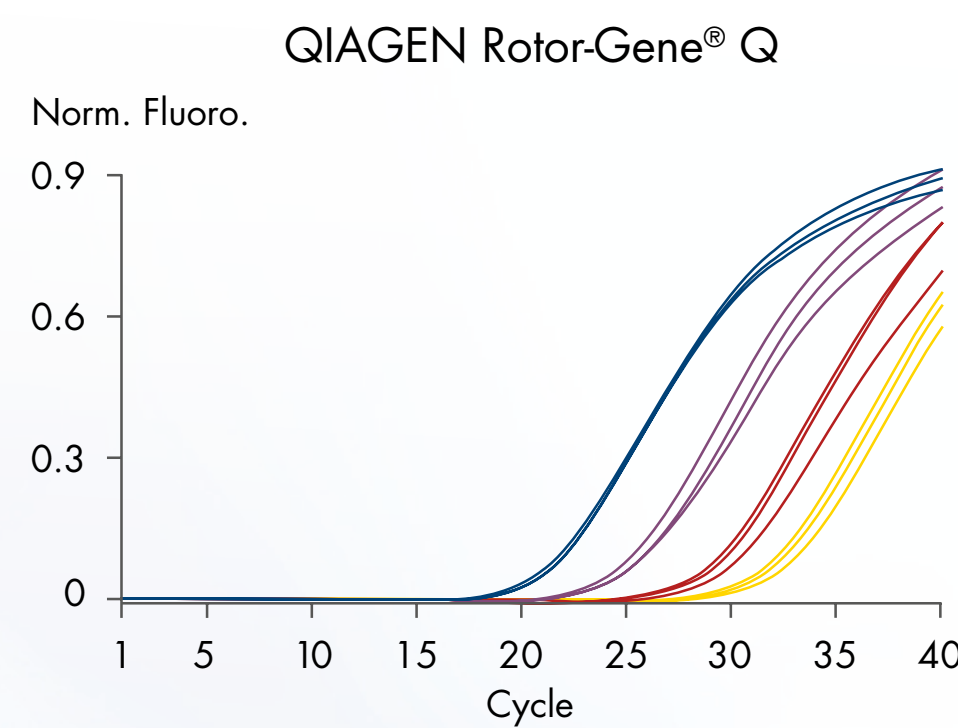
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Expression of EGFR in HeLa cells was analyzed using a QuantiTect Primer Assay and Reverse Transcription Kit. Dilutions of the resulting cDNA from 10 ng to 0.01 ng were amplified on 8 different cyclers.



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 25 µl reactions: 1 ml 2x QuantiNova Probe PCR Master Mix, 500 µl QuantiNova Yellow Template Dilution Buffer, 250 µl QN ROX Reference Dye, 1.9 ml RNase-Free Water	208252
<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	208254
<u>QuantiNova SYBR Green PCR Kit (2500)</u>	For 2500 x 25 µl reactions: 15 x 1.7 ml 2x Master Mix (contains ROX dye), 5 x 500 µl QuantiNova Yellow Template Dilution Buffer, 5 x 1 ml QN ROX Reference Dye, 5 x 1.9 ml RNase-Free Water	208256

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