

Overview

Trusted
QuantiNova
PCR chemistry

Complete
workflow

Best coverage
for all analysis
needs

Exceptional
linearity and
sensitivity

Superior
sensitivity

High
reproducibility

Ordering
Information

QuantiNova[®] LNA[®] Probe PCR System

In-depth, accurate and reliable gene expression analysis using LNA-enhanced hydrolysis probe qPCR

- Broadest coverage with >1.3 million assays for human, mouse and rat mRNA and lncRNA Ensembl transcripts
- Accurate detection over a wide dynamic range starting at 1 RNA copy
- Stability for room-temperature setup allowing automation
- Robust and reproducible results in <2 hours using the QuantiNova Probe PCR Kit

LNA-enhancement improves primer T_m and enables:

- Differentiation of single nucleotide mismatches
- Flexible positioning of short primers with high binding affinity for any target
- Highly sensitive and specific analyses using LNA-enhanced primers and FAM-labeled probes
- T_m normalization and uniform target detection

Robust results in less than 2 hours with trusted QuantiNova Probe PCR chemistry

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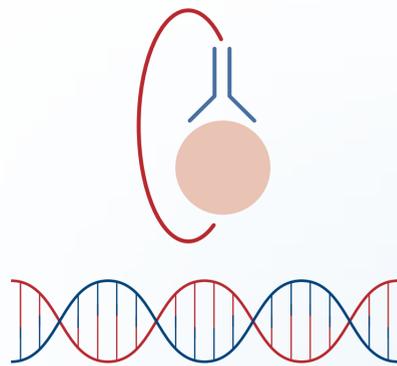
Exceptional linearity and sensitivity

Superior sensitivity

High reproducibility

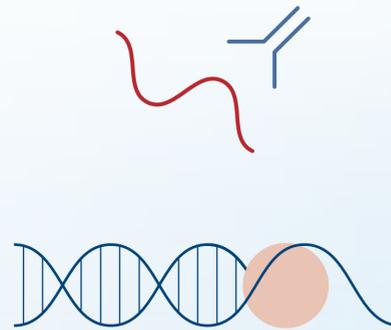
Ordering Information

Inactive QuantiNova DNA Polymerase



Heat activation
2 min, 95°C

Active QuantiNova DNA Polymerase

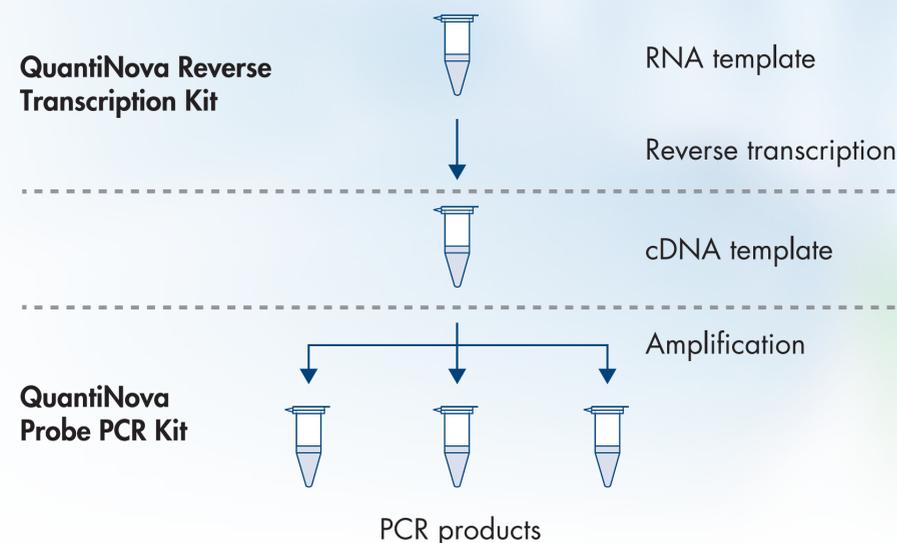


- QuantiNova DNA Polymerase
- QuantiNova Antibody
- QuantiNova Guard DNA
- DNA

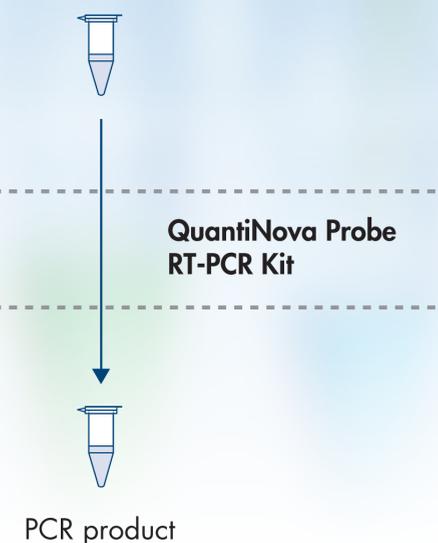
Stringent hot start allows room-temperature and automated setup

Real-time PCR reactions stable up to 100 hours at 30°C without impairing performance

Two-Step RT-PCR Procedure



One-Step RT-PCR Procedure



Ultrafast one- or two-step procedure

Built-in color control verifies correct pipetting

Fast and simple gene expression analysis – from Sample to Insight

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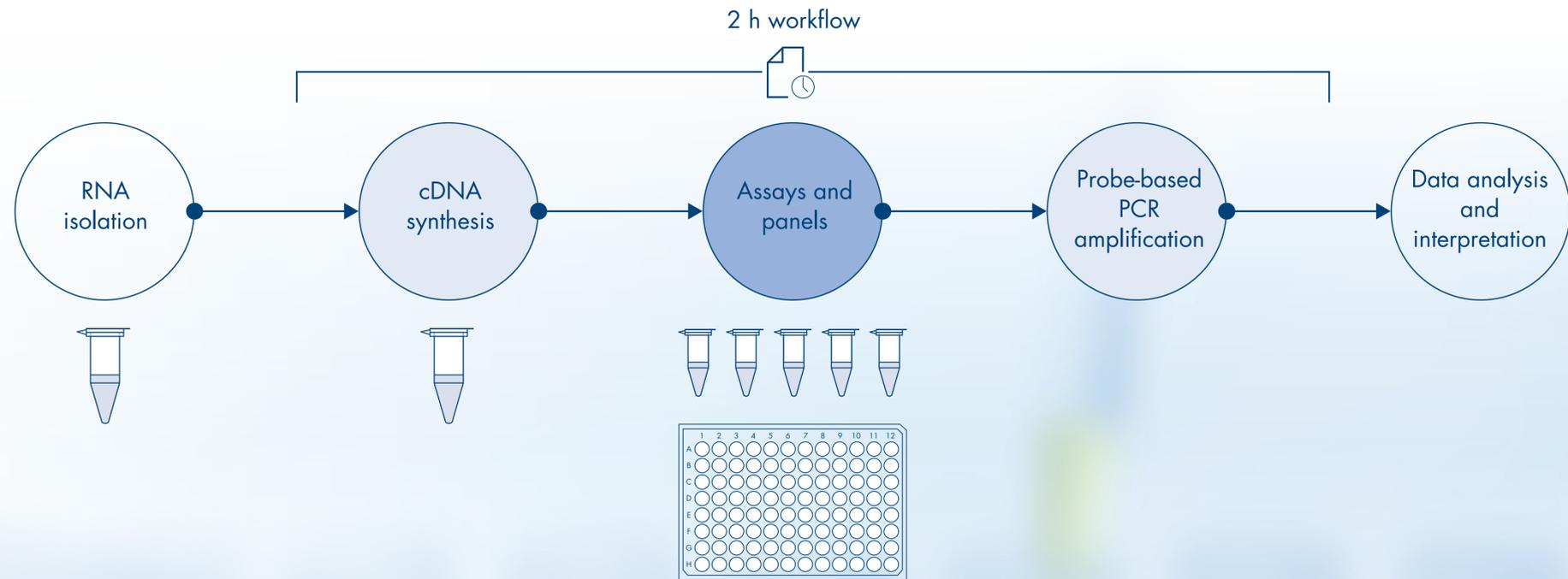
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Cells or easy-to-lyse tissues

- RNeasy® Plus Mini Kits
- RNeasy Mini, Midi and Maxi Kits

Low biomass, microsamples

- RNeasy Plus Micro Kit
- RNeasy Micro Kit

Difficult-to-lyse tissues

- RNeasy Plus Universal Kits

FFPE tissue

- RNeasy FFPE Kit

Exosomal RNA

- exoRNeasy

QuantiNova Reverse
Transcription Kit

QuantiNova LNA Probe PCR

- Pre-designed assays
- Custom assays
- Focus mRNA/lncRNA Panels
- Flexible Panels
- Custom panels

QuantiNova Probe PCR Kit

QuantiNova Probe RT-PCR Kit

GeneGlobe® Data
Analysis Center

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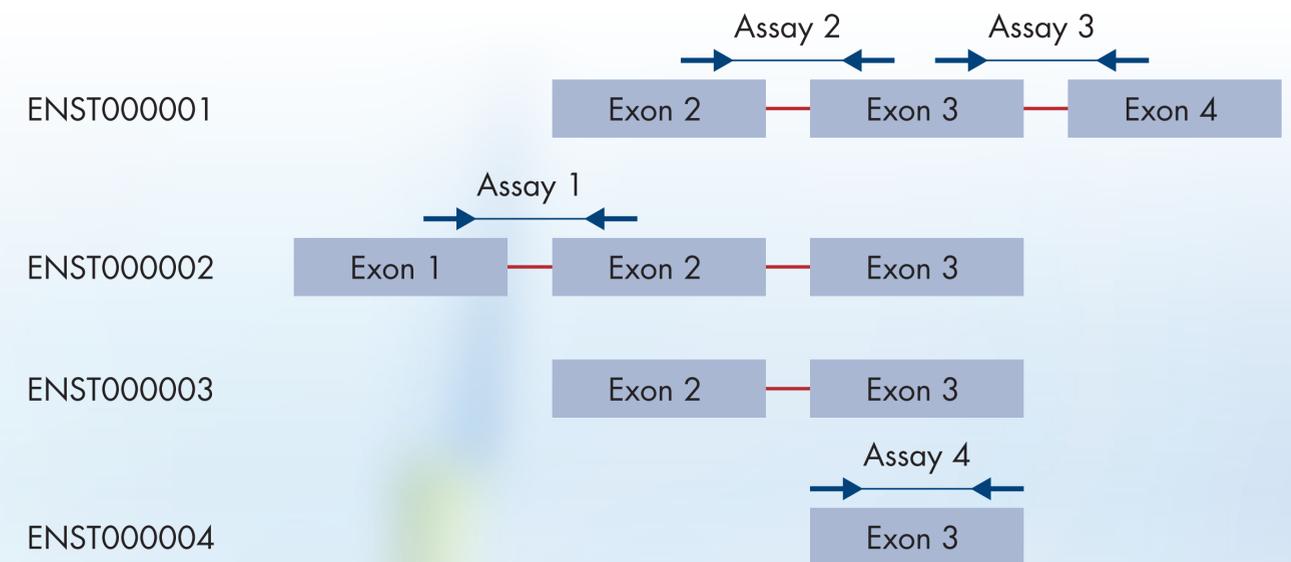
Best and largest assay coverage of virtually all mRNA and lncRNA targets in Ensembl

Over 1.3 million predesigned human, mouse and rat assays include:

- Three assay types covering all analysis needs
 - General transcript detection
 - Detection of a specific transcript
 - Isoform differentiation
- Wet-lab validation of all popular human and mouse assays

Robust design algorithm guarantees the optimal assay for successful detection:

- Over 50 different parameters validated against highly stringent performance criteria
- Sophisticated custom design tool for specialized requests



Assays are intron-spanning when possible and cover all analysis needs: general transcript detection (assays 2, 4), detection of a specific transcript (assays 1, 3) and isoform differentiation (not shown).

Exceptional linearity and highly sensitive detection even at 1 template copy

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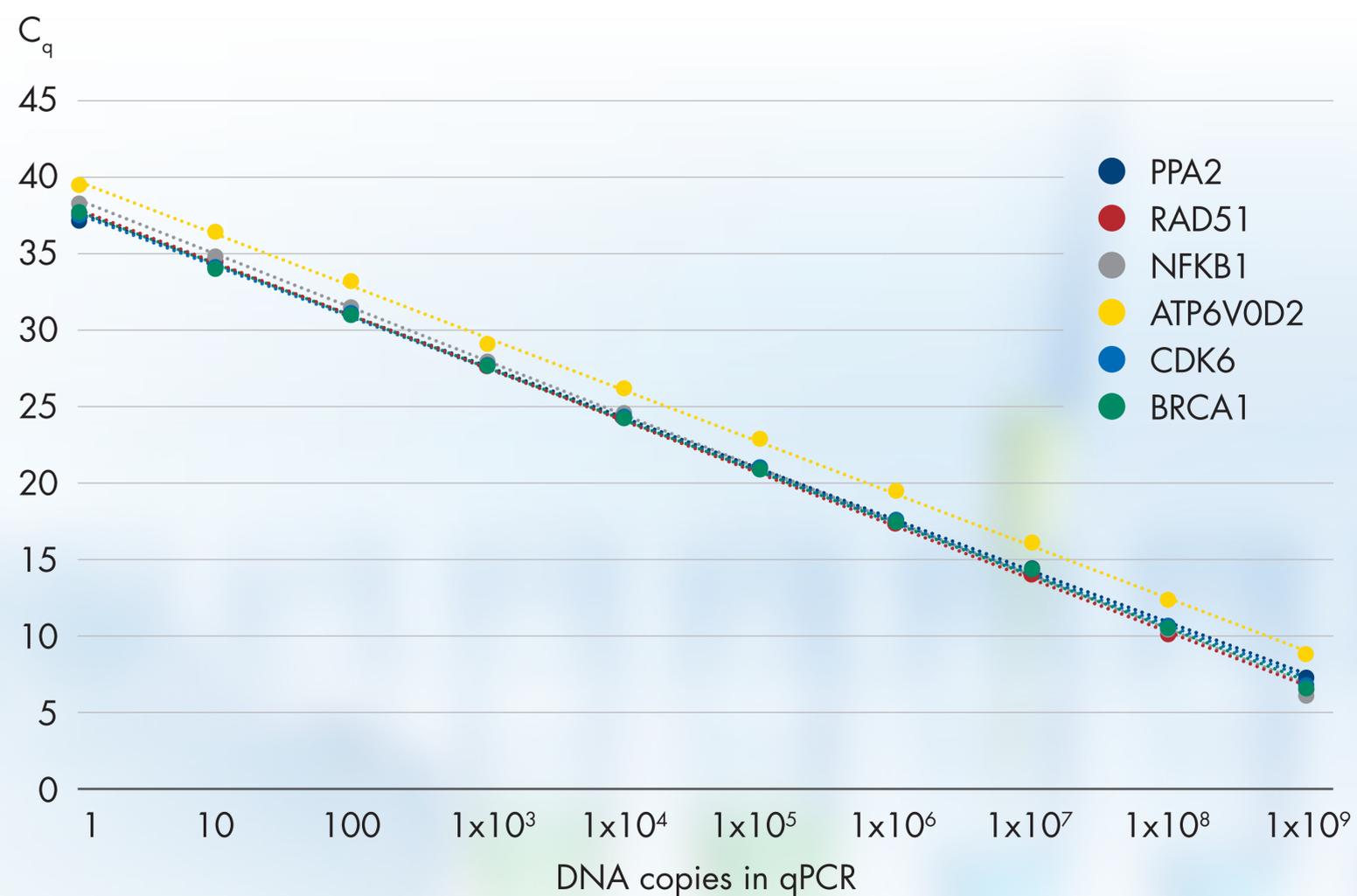
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Superior sensitivity – reliable detection at 100 fg cDNA

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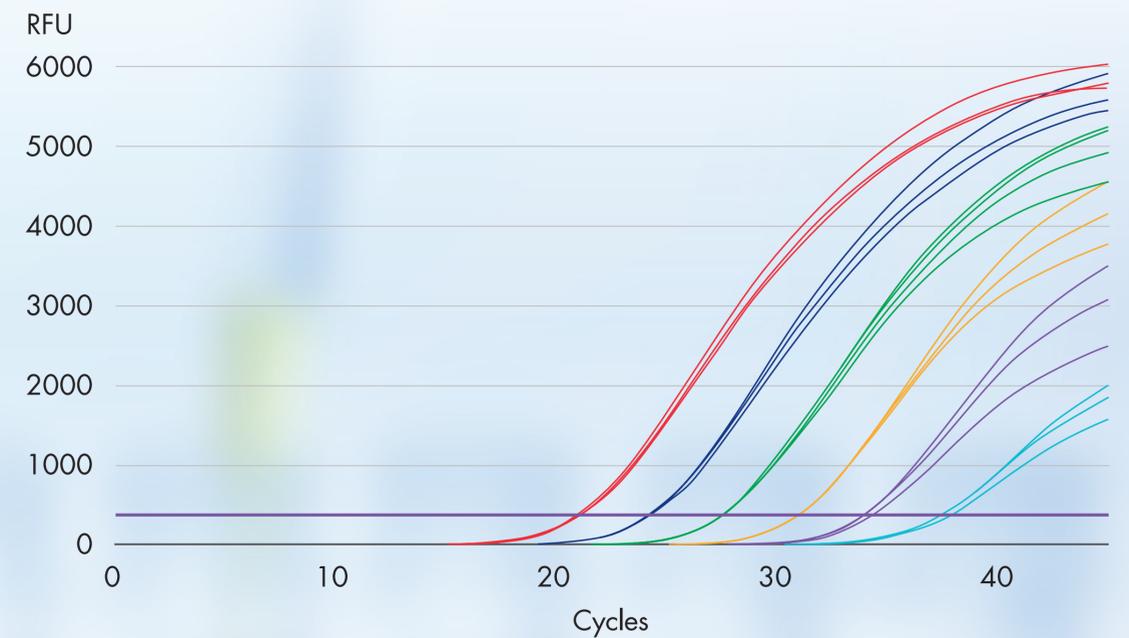
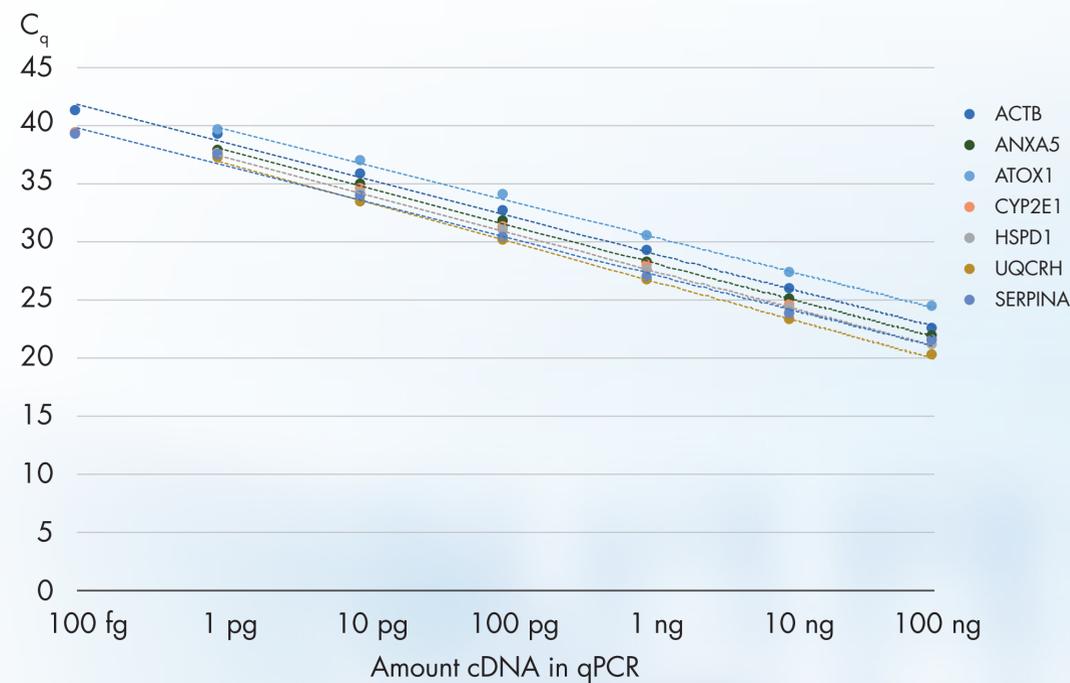
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Accurately detect both low- and high-level target expression

Robust, reproducible gene expression analysis

Example: QuantiNova LNA Probe PCR Human Cell Cycle Focus Panel

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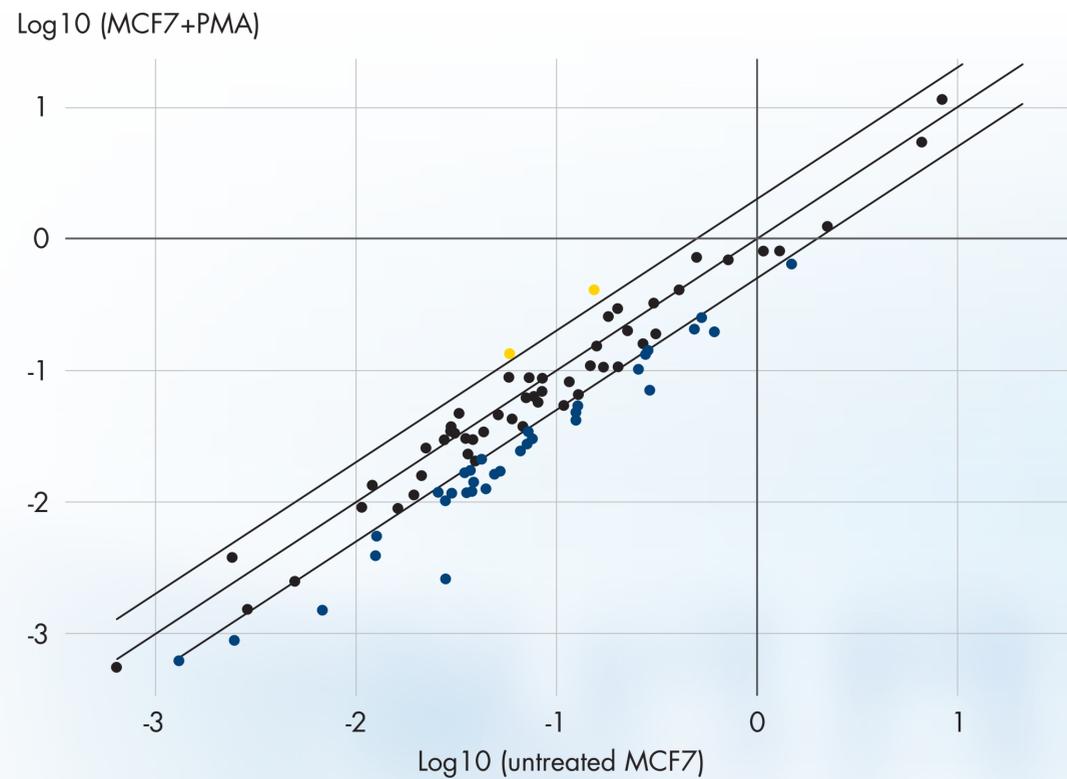
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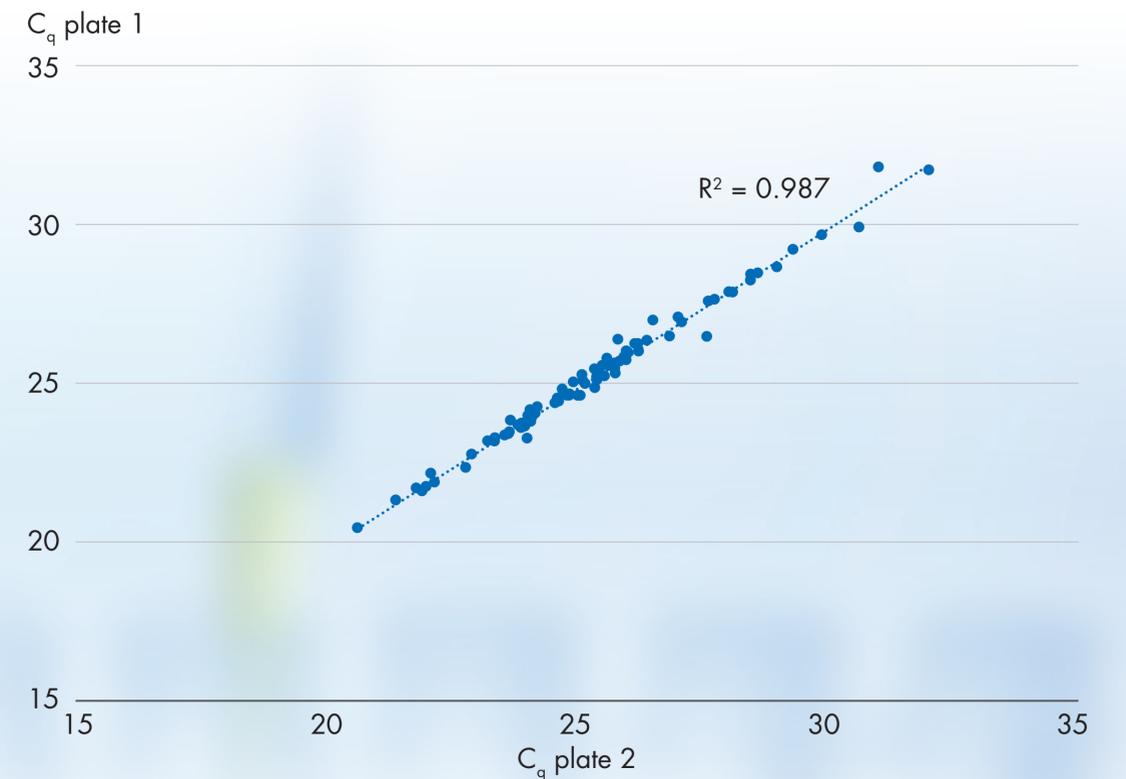
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Robust quantification of gene up- and down-regulation



Consistency and reproducibility across replicate plates

Provides the robustness and reproducibility required for clinical biomarker studies

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Product	Description	Cat. no.
QuantiNova Probe RT-PCR Kit (100)	QuantiNova Probe RT-PCR Master Mix, QuantiNova Probe RT Mix, Internal Control RNA, Yellow Template Dilution Buffer, ROX Reference Dye, RNase-Free Water; for 100 x 20 µl reactions	208352*
QuantiNova Reverse Transcription Kit (10)	gDNA Removal Mix, Reverse Transcription Enzyme, Reverse Transcription Mix (containing RT primers), Internal Control RNA, RNase-Free Water; for 10 x 20 µl reactions	205410*
QuantiNova Probe PCR Kit (100)	2x QuantiNova Probe PCR Master Mix, QuantiNova Yellow Template Dilution Buffer, QN ROX Reference Dye, Water; for 100 x 20 µl reactions	208252*
QuantiNova LNA Probe PCR Assay (200, 750)	Predesigned, LNA-optimized hydrolysis probe, forward and reverse primers for human, mouse or rat mRNA and lncRNA; for 200 or 750 reactions	249995 249996
QuantiNova LNA Probe PCR Custom Assay (200, 750)	Custom designed, LNA-optimized hydrolysis probe, forward and reverse primers for any human, mouse or rat mRNA and lncRNA target; for 200 or 750 reactions	249915 249916
QuantiNova LNA Probe PCR Reference Assay (200, 750)	Predesigned, wet-lab validated assays for common reference mRNA and lncRNA targets; for 200 or 750 reactions	249925 249926
QuantiNova LNA Probe PCR Focus Panels	Research area- and pathway-focused panels for mRNA; 96- or 384-well formats for any cyclor	249955
QuantiNova LNA Probe PCR lncRNA Focus Panels	Research area- and pathway-focused panels for lncRNA; 96- or 384-well formats for any cyclor	249956
QuantiNova LNA Probe PCR Flexible Panels	Custom-designed panel of assays from our catalog focus panels; 96- or 384-well formats for any cyclor	249965
QuantiNova LNA Probe PCR Custom Panels	Custom-designed panel of custom and/or predesigned LNA PCR assays; 96- or 384-well formats for any cyclor	249975

*Additional kit sizes available.

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

QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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