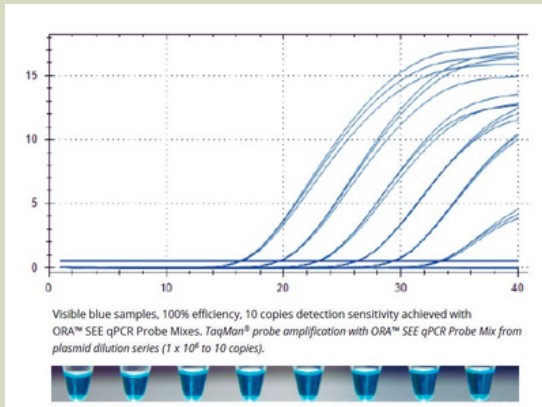


qPCR and 1-Step or 2-Step RT-qPCR

Probe or Dye-based qPCR, One-step RT qPCR from RNA Templates

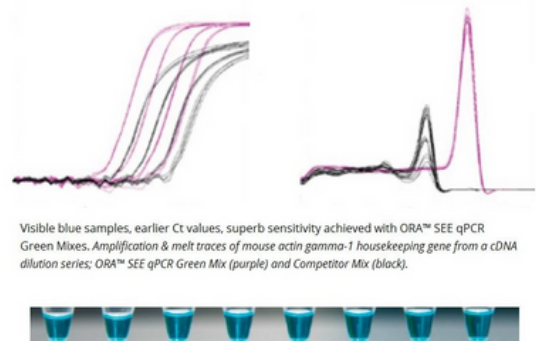
Robust Solution for Probe-based qPCR: ORA™ qPCR Probe Mixes

- Universal - both standard and fast cycling, all probe qPCR assays.
- qPCR of GC or AT rich templates, single-plex and multiplexing.
- High sensitivity, rapid extension, early Ct.
- Supplied with PCR Water, with different ROX concentrations.
- Available as blue-stained mixed (SEE) for easier pipetting.



Ideal Solution for Dye-based qPCR: ORA™ qPCR Green Mixes

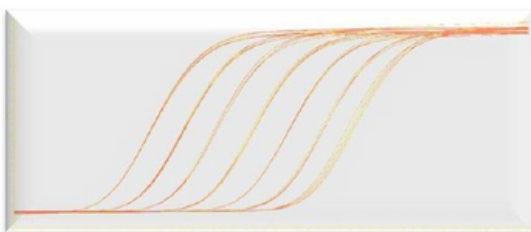
- Universal - both standard and fast cycling.
- Excellent for GC or AT rich templates.
- Highest sensitivity, rapid extension, early Ct values.
- Supplied with PCR Water, with different ROX concentrations.
- Available as blue-stained mixed (SEE) for easier pipetting.



Generate qPCR Template from RNA Samples: qScriber™ cDNA Synthesis Kit for 2-Step RT-qPCR

- Thermostable HighScriber™ Reverse Transcriptase blended with Ribonuclease Inhibitor for efficient cDNA synthesis.
- Optimized reaction mix with oligo (dT) and random primers for unbiased representation of mRNA ends.
- cDNA synthesis from complex templates at up to 55°C.
- High sensitivity detection from 1 pg of total RNA template.

qScriber™ cDNA Synthesis Kit provides excellent results within the very broad range of the total RNA amount used



4 pg, 40 pg, 400 pg, 4 ng, 40 ng, 400 ng and 4 µg of mouse total RNA were used for cDNA synthesis under the standard qScriber™ cDNA Synthesis Kit protocol conditions. An aliquot from each reaction was taken for subsequent qPCR with ORA™ qPCR Green Mix to amplify a 70 bp fragment of the mouse RN18S gene. All reactions independently from the initial amount of RNA were 100% efficient.

Viral/Pathogen RNA Detection in Diluted Samples: 4X 1Step RT qPCR Probe Kits

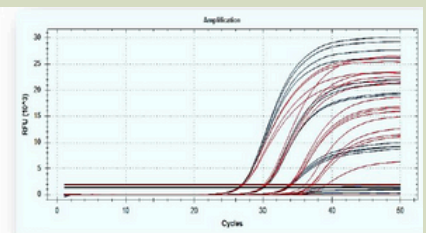
- Robust 4X qPCR mix for the highest sample volume input.
- Detects <5 RNA copies per reaction.
- Successfully tested for RNA-virus detection.
- Ideal for multiplex reactions.
- Supplied with PCR Water, with different ROX concentrations.

- High sensitivity even with diluted samples
- Great reaction efficiency
- Reproducible results
- Early Ct

RT qPCR performed according to product manual recommendations. Targeting region of the 2019-nCoV RdRp gene with Charité RdRp SARS primers and probe.

- Template: Quantitative Synthetic SARS-CoV-2 RNA: ORF, E, N ATCC® VR-32765D™
- Template RNA dilutions in copies per 20 µl reaction: 50000 / 5000 / 500 / 50 / 5
- Cycling: 5 min 50°C / 3 min 93°C
- 50X: 15 sec 95°C / 30 sec 58°C

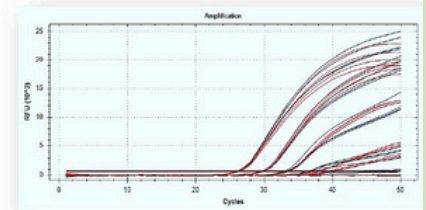
Red - 4X 1Step RT qPCR Probe Kit
Blue - competitor kit



RT qPCR performed according to product manual recommendations. Targeting region of the 2019-nCoV E Gene with Charité E Sarbeco primers and probe.

- Template: Quantitative Synthetic SARS-CoV-2 RNA: ORF, E, N ATCC® VR-32765D™
- Template RNA dilutions in copies per 20 µl reaction: 50000 / 5000 / 500 / 50 / 5
- Cycling: 5 min 50°C / 3 min 93°C
- 50X: 15 sec 95°C / 30 sec 58°C

Red - 4X 1Step RT qPCR Probe Kit
Blue - competitor kit



20 µl reactions included: Reverse & Forward Primer at 0.5 µM final concentration; Probe at 125 nM final concentration; 5 µl of 1Step RT qPCR Probe Mix, 4X; 1 µl of RT4 Mix, 20X; and template RNA as listed above in different dilutions made with water which is supplied in the kit.

[samples at highqu.com/Samples](https://www.highqu.com/Samples)

highQu
professionally simple

ENZYMES MADE TO AMPLIFY

Enjoy easy-to-use, outperforming tools and consistently great results!

Why to choose highQu?

- Best value for money
- **Scientific track record since 2013**
- Trusted by scientists in >40 countries
- Next day delivery in Germany
- Immediate customer support

What's special about highQu PCR/qPCR reagents?

- Robust - inhibitor-resistant, minimum optimization
- Easy-to-use - simplified protocols
- Fast - designed for rapid workflows
- Outperforming – great on complex templates
- ALLin™ formulation - dNTPs in buffers, water supplied

Optical Genome Mapping as a Diagnostic Tool in Pediatric Acute Myeloid Leukemia *Cancers, 2022*
Validation of Newly Detected SVs by Long-Distance Touchdown PCR and Sequencing: ...Primer walking was used to amplify the breakpoint. The identified breakpoints were re-confirmed by a breakpoint-spanning PCR using the **ALLin™ HS Red Taq Master Mix** (highQu GmbH, Kraichtal, Germany)...

Development of the first PVM TaqMan® primer set and a one-step real-time multiplex DiRT-PCR for the detection of PLRV, PVY, PVM, PVS, PVA and PVX in potato tuber sap *The European Journal of Plant Pathology, 2022*

We extended the reverse transcription in (MV) to 1 h and changed the reverse transcriptase from SuperScript®III (Thermo Fisher Scientific) to **HighScriber™ Reverse Transcriptase** (HighQu...).

Diversity of Streptomyces spp. from mangrove forest of Sarawak (Malaysia) and screening of their antioxidant and cytotoxic activities *Nature Scientific Reports, 2019*

Genomic DNA extraction was performed...PCR amplification of 16S rRNA gene was carried out in a final volume of 20 µL using TurboCycler 2... based on protocol adapted from Lee et al. 65, with **highQu Taq DNA polymerase** (Kraichtal, Germany)



What would you like to try?

qPCR Mixes for Probes

QPP010S ORA™ qPCR Probe Mix
QPP040S ORA™ SEE qPCR Probe Mix
QPP020S ORA™ qPCR Probe ROX L Mix
QPP050S ORA™ SEE qPCR Probe ROX L Mix
QPP030S ORA™ qPCR Probe ROX H Mix
QPP060S ORA™ SEE qPCR Probe ROX H Mix

qPCR Mixes with Dye

QPD010S ORA™ qPCR Green ROX L Mix
QPD050S ORA™ SEE qPCR Green ROX L Mix
QPD020S ORA™ qPCR Green ROX H Mix
QPD040S ORA™ SEE qPCR Green ROX H Mix
QPD030S ORA™ qPCR HRM Mix

One Step RT qPCR Kits for Probes

QOP040S 4X 1Step RT qPCR Probe Kit
QOP050S 4X 1Step RT qPCR Probe ROX L Kit
QOP060S 4X 1Step RT qPCR Probe ROX H Kit
QOP110S 2X 1Step RT qPCR Probe Kit
QOP120S 2X 1Step RT qPCR Probe ROX L Kit
QOP130S 2X 1Step RT qPCR Probe ROX H Kit

One Step RT qPCR Kits with Dye

QOD010S 1Step RT qPCR Green ROX L Kit
QOD020S 1Step RT qPCR Green ROX H Kit

Isothermal Amplification

IDK0101 ALLin™ Isothermal DNA Amplification Kit
IRK0101 ALLin™ Isothermal 1Step RNA Amplification Kit
IDE0105 phi29 DNA Polymerase
IDE020E ALLin™ Bst DNA Polymerase
IDE030E ALLin™ Hot Start Bst Polymerase
IDK0201 ALLin™ HS Isothermal DNA Amplification Kit

Standard PCR

PCE010S ALLin™ Taq DNA Polymerase
PCM020S ALLin™ Red Taq Mastermix
PCM010S ALLin™ Taq Mastermix
PCE020S Taq DNA Polymerase

Hot Start PCR and Direct PCR

HSE010S ALLin™ Hot Start Taq Polymerase
HSM030S ALLin™ HS Red Taq Mastermix
HSM020S ALLin™ Hot Start Taq Mastermix

High Fidelity and Long PCR

HLE010S ALLin™ RPH Polymerase
HLM010S ALLin™ RPH Mastermix
HLE020S ALLin™ HiFi DNA Polymerase
HLE030S ALLin™ Mega HiFi DNA Polymerase
HLM020S ALLin™ Mega HiFi Mastermix
HLM030S ALLin™ Mega HiFi Red Mastermix
HLE040S ALLin™ Mega HS HiFi DNA Polymerase
HLM040S ALLin™ Mega HS HiFi Mastermix
HLM050S ALLin™ Mega HS HiFi Red Mastermix

Direct PCR

DPK010S SampleIN™ Direct PCR Kit
PCR related Reagents & Kits
PRK0101 Proteinase K MBG Solution
SCR0101 Synthetic Carrier RNA
PDK0101 PCRbeam™ Fast PCR Detection Kit
NUM010S 25 mM dNTP Mix

Reverse Transcription & RT-PCR

RTK020S 1Step RT PCR Kit
RTK010S qScriber™ cDNA Synthesis Kit
RTM030S HighScriber™ Reverse Transcriptase Mix
RNI030S SecurIN™ Advanced RNase Inhibitor
Ladders for DNA Electrophoresis
DNL010S Take5™ 1kb DNA Ladder
DNL030S Take5™ 50 bp DNA Ladder
DNL020S Take5™ 100 bp DNA Ladder
DNL040S Take5™ HR DNA Ladder

Novel NA Stains for DNA Electrophoresis

NAS030S StainIN™ eco-RED Nucleic Acid Stain
NAS020S StainIN™ GREEN Nucleic Acid Stain
Ladders for Protein Electrophoresis
PRL010S Cozy™ Prestained Protein Ladder
PRL020S CozyHi™ Prestained Protein Ladder
PRL030S CozyXL™ Prestained Protein Ladder

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