**Check the product label for actual catalog number, lot and expiry date.**

# ORA™ SEE qPCR Probe ROX L Mix, 2X

| CAT.# | SIZE | COMPONENTS | COMPONENT COMPOSITION |
|---|---|---|---|
| QPP0501 | 200 r of 20 µl | 2 x 1 ml - ORA™ SEE qPCR Probe ROX L Mix, 2X<br>2 x 1 ml - PCR Water | Mix includes an inert blue dye for better visibility, Hot Start qPCR components: dNTPs at 0.25 mM, optimized buffer; low ROX concentration |
| QPP0505 | 1000 r of 20 µl | 10 x 1 ml - ORA™ SEE qPCR Probe ROX L Mix, 2X<br>10 x 1 ml - PCR Water | Mix includes an inert blue dye for better visibility, Hot Start qPCR components: dNTPs at 0.25 mM, optimized buffer; low ROX concentration |

*Storage:* *In the dark at -20°C.*

## APPLICATIONS

- qPCR on instruments calibrated with low ROX concentration
- qPCR assays based on specific probes: including TaqMan®, Molecular Beacons, Scorpions™ Probes
- Quantification of gDNA, cDNA, viral DNA, low copy number genes, gene expression analysis

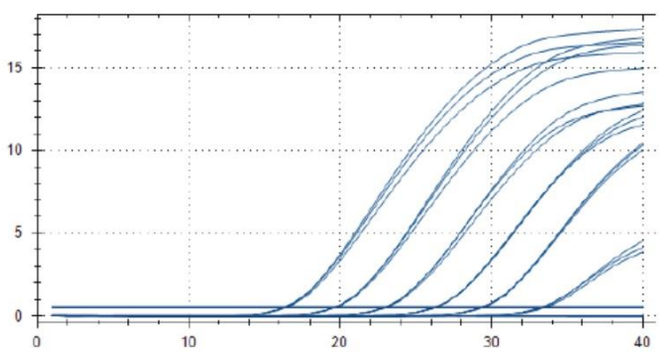
## BENEFITS

- Universal - both standard and fast cycling, all probe qPCR assays, GC or AT rich templates
- Excellent for both single-plex & multiplexing
- Rapid extension, early Ct
- Inert blue dye for a better sample visibility and tracking

## PRODUCT DETAILS

highQu qPCR mastermixes are based on the small molecular inhibitor technology Hot Start PCR allowing to achieve highest sensitivity and specificity under both standard and fast qPCR cycling conditions. They provide excellent results on both AT and GC rich templates, in multiplexing and guaranty rapid extension with early Ct values with minimum or no optimization.
ORA™ SEE qPCR mixes provide an additional advantage of a simplified tracking of the process, as they are colored with an inert blue dye to make samples much better visible during pipetting and handling.
Our mastermixes are supplied with PCR Water to guaranty the best performance. To suit the broad instrument range the ORA™ qPCR Probe Mixes are available in three versions – without ROX, with low or high ROX concentration.

## PERFORMANCE




Visible blue samples, 100% efficiency, 10 copies detection sensitivity achieved with ORA™ SEE qPCR Probe Mixes. *TaqMan® probe amplification with ORA™ SEE qPCR Probe Mix from plasmid dilution series (1 x $10^6$ to 10 copies).*

## PROTOCOL

- Use special primer selection programs for good planning.
- Work with amplicons in a range of 80-200, max 400 bp.
- Take typical measures to prevent PCR cross over contamination, keep your bench clean, wear gloves, use sterile tubes and filter pipet tips.
- Run reactions in triplets; include a no-template control and positive control in parallel.
- Thaw and keep reagents on ice. Mix well before use.
- Do not perform annealing/extension for more than 30 seconds and do not use lower than 60 °C temperature for this step.

✓ Prepare a 20 µl reaction:

| | |
|---|---|
| Reverse Primer | 100-400 nM final c. |
| Forward Primer | 100-400 nM final c. |
| Specific Probe | 200 nM final c. (0.4 µl of 10 µM) |
| cDNA Template *or* | <100 ng *or* |
| gDNA Template | 1 µg |
| PCR Water | to 10 µl |
| ORA™ SEE qPCR Mix, 2X | 10 µl |

✓ Mix gently, avoid bubbles.

✓ Place into the instrument set like:

| | |
|---|---|
| Initial denaturation | 1 cycle: 95°C - 2 min for cDNA, or<br>1 cycle: 95°C - 3 min for gDNA |
| Denaturation | 40 cycles: 95°C - 5 sec |
| Anneal./extension | 40 cycles: 60-65°C – 20-30 sec |

✓ Follow instrument instructions for melting curve analysis.

IN VITRO RESEARCH USE ONLY

For optional use, the ROX passive reference dye is premixed within the ROX L and ROX H qPCR Mixes. If the purchaser has an instrument capable of optional ROX detection and wishes to perform the optional normalization of the signal, then the user must select the option in the software.
Notice to Purchaser: With purchasing of this product, no rights are conveyed with respect to U.S. Patent: 5,928,907 and corresponding patents outside the US.

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