

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

ORA™ qPCR Green ROX H Mix, 2X

| CAT.# | SIZE | COMPONENTS | COMPONENT COMPOSITION |
|---------|--------------------|--|--|
| QPD0201 | 200 r of 20 µl | 2 x 1 ml - ORA™ qPCR Green ROX H Mix, 2X 2 x 1 ml - PCR Water | Hot Start qPCR components: dNTPs at 0.25 mM, optimized buffer, high ROX concentration. |
| QPD0205 | 1000 r of 20 µl | 10 x 1 ml - ORA™ qPCR Green ROX H Mix, 2X 10 x 1 ml - PCR Water | Hot Start qPCR components: dNTPs at 0.25 mM, optimized buffer, high ROX concentration. |

Storage In the dark at -20°C.

APPLICATIONS

- qPCR on instruments calibrated with high ROX conc.
- qPCR assays based on fluorescence of intercalating dye
- Quantification of gDNA, cDNA, viral DNA, low copy number genes, gene expression analysis

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 and guaranty rapid extension with early Ct values with minimum or no optimization.

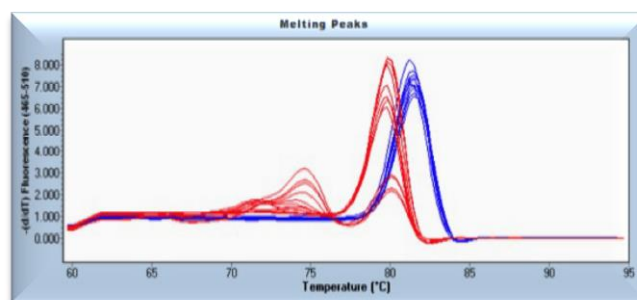
Our mastermixes are supplied with PCR Water to guaranty the best performance. To suit the broad instrument range the ORA™ qPCR Green Mixes are available in different versions –with low or high ROX concentration.

BENEFITS

- Universal - both standard and fast cycling, GC or AT rich templates
- Highest sensitivity, rapid extension, early Ct

PERFORMANCE

ORA™ qPCR Green Mix (blue curves) provides in many cases higher sensitivity compared to competitor mastermixes. Conditions: 95 °C 2 m, 40 x 95 °C 10 s & 60 °C 15 s, Roche LC480. Amplification of mouse ACTG1 from cDNA dilution series.



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. |
|----------------|---------------------|

| | | | |
|---------------|----|---------|----|
| cDNA Template | or | <100 ng | or |
|---------------|----|---------|----|

| | |
|---------------|------|
| gDNA Template | 1 µg |
|---------------|------|

| | |
|-----------|----------|
| PCR Water | to 10 µl |
|-----------|----------|

| | |
|-------------------|-------|
| ORA™ qPCR Mix, 2X | 10 µl |
|-------------------|-------|

- ✓ Mix gently, avoid bubbles.
- ✓ Place into the instrument (SYBR® Green or FAM channel), set like:

| | |
|----------------------|--|
| Initial denaturation | 1 cycle: 95°C - 2 min for cDNA, or 1 cycle: 95°C - 3 min for gDNA |
|----------------------|--|

| | |
|--------------|-------------------------|
| Denaturation | 40 cycles: 95°C - 5 sec |
|--------------|-------------------------|

| | |
|---------------------|--------------------------------|
| Annealing/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.

ORDERING

T: +49 7250 33 13 401
F: +49 7250 33 11 413
order@highQu.com
www.highQu.com

SALES

T: +49 7250 33 13 401
F: +49 7250 33 11 413
sales@highQu.com

TECHNICAL SUPPORT

T: +49 7250 33 13 401
F: +49 7250 33 11 413
tech-support@highQu.com