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

ORA™ qPCR HRM Mix, 2X

CAT.#	SIZE	COMPONENTS	COMPONENT COMPOSITION
QPD0301	200 r of 20 µl	2 x 1 ml - ORA™ qPCR HRM Mix, 2X 2 x 1 ml - PCR Water	Hot Start qPCR components: dNTPs at 0.25 mM, optimized buffer, proprietary saturating intercalating dye
QPD0305	1000 r of 20 µl	10 x 1 ml - ORA™ qPCR HRM Mix, 2X 10 x 1 ml - PCR Water	Hot Start qPCR components: dNTPs at 0.25 mM, optimized buffer, proprietary saturating intercalating dye
Storage	*In the dark at -20°C.*		

APPLICATIONS

High Resolution Melting analysis (HRM):

- Detection of sequence variations
- SNP genotyping
- Methylation analysis
- Mutation scanning

BENEFITS

- Time and costs saving analysis of sequence variations
- Universal - standard or fast cycling, GC or AT rich templates
- Highest sensitivity, no optimization required
- Supplied with PCR Water for maximum convenience

PRODUCT DETAILS

High Resolution Melting analysis (HRM) is a fast and simple technique for identification of DNA sequence variations. It allows identifying single nucleotide differences by detecting minor changes in qPCR melting curves.
highQu ORA™ HRM qPCR Mix includes a proprietary intercalating saturating dye showing no inhibition for PCR. The dye has the same affinity for both AT or GC rich sequences what leads to highest accuracy in genotyping.
The hot-start function in the mix is based on the small molecular inhibitor technology and allows achieving highest sensitivity and specificity under both standard and fast qPCR cycling conditions. The mix provides excellent performance on both AT and GC rich templates and reliable results with minimum or no optimization.

COMPATIBILE INSTRUMENTS

Life Technologies:	7500, 7500 FAST, 7900, 7900HT FAST, 7900HT, Viia™7, QuantStudio™ 12K Flex
BioRad:	CFX96™, CFX384™
Eppendorf:	Mastercycler® ep realplex Mastercycler® realplex 2S
Illumina:	Eco
QIAGEN:	Rotor-Gene®Q, Rotor-Gene® 6000, Rotor-Gene® 3000
Roche Applied Science:	LightCycler®480, LightCycler®96, LightCycler®Nano

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* gDNA Template	<100ng <1 µg	*or*
PCR Water	to 10 µl	
ORA™ HRM 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

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