

USB® VeriQuest™ Probe qPCR Master Mix, No Reference Dye (2X)

VeriQuest Probe qPCR Master Mix, No Reference Dye is supplied as a 2X pre-mixed formulation containing UDG in an optimized buffer for quality results in real-time quantitative PCR assays. The proprietary reaction buffer with optimum $MgCl_2$ concentration is specifically designed for robust probe hybridization and efficient cleavage of TaqMan® probes. Simply add DNA template, primers, probe(s), and water, and the reactions are ready for cycling.

Features:

- Enhanced amplification sensitivity and accuracy of low copy number detection
- Reproducible, consistent results while maintaining precision and efficiency
- Exceptional performance with challenging templates
- Ready-to-use one-tube replacement
- Passive reference dye and UDG included
- Highly stable and easy to work with
- Ample detection of up to 4 different target genes

Enhanced sensitivity on amplification for low copy number detection

Reliable detection from as little as two copies of target from genomic DNA and differentiation from less than a two-fold difference.

Reproducible, consistent results while maintaining precision and efficiency

The convenience of a master mix formulation without sacrificing quality. VeriQuest Probe qPCR Master Mix, No Reference Dye provides consistency over a broad dynamic template concentration range, allowing 9 orders of magnitude linear detection. High precision in target quantification and discrimination of a 1.33 to 10-fold dilution series with VeriQuest Probe qPCR Master Mix, No Reference Dye ensures accurate results.

Exceptional performance with challenging templates

Even in high GC and AT rich regions, VeriQuest Probe qPCR Master Mix, No Reference Dye offers exceptional performance and high specificity so you have the confidence to verify your gene expression results.

Ready-to-use one-tube replacement

The one-tube master mix contains all necessary components: chemically-modified Taq DNA Polymerase, $MgCl_2$, ultrapure nucleotides with an optimized dUTP:dTTP ratio, and Uracil-DNA Glycosylase (UDG or UNG) in a proprietary reaction buffer. Simply add your DNA template, probe, primers, and water, and you can begin your qPCR reaction. For use in your new or existing protocols, on any leading PCR platform that does not require a passive reference dye, providing easy transition from other master mixes. Examples of PCR platforms include: Eppendorf Mastercycler®, Helixix Pixo™, Qiagen Rotor-Gene™ Q, Roche LightCycler® 480/1536, TaKaRa TP-800, Bio-Rad CFX96/CFX384, Bio-Rad Opticon 2™, Bio-Rad Chromo 4™, Cepheid Smart Cycler®, and Corbett Rotor-Gene™.

UDG included for carry-over contamination prevention

Uracil-DNA Glycosylase (UDG or UNG) and dUTP offer an option for carry-over contamination prevention from previous PCR amplifications. Both are at optimized levels so there is no need to adjust concentrations.

Highly stable and easy to work with

VeriQuest Probe qPCR Master Mix, No Reference Dye is stable at room temperature for 72 hours in a preassembled reaction. This mix can be stored at 4°C for convenient handling and room temperature reaction set up, with no time lost waiting for your master mix to thaw. Testing of 10 freeze thaw cycles showed no loss in master mix performance, making it ideal for high-throughput handling.

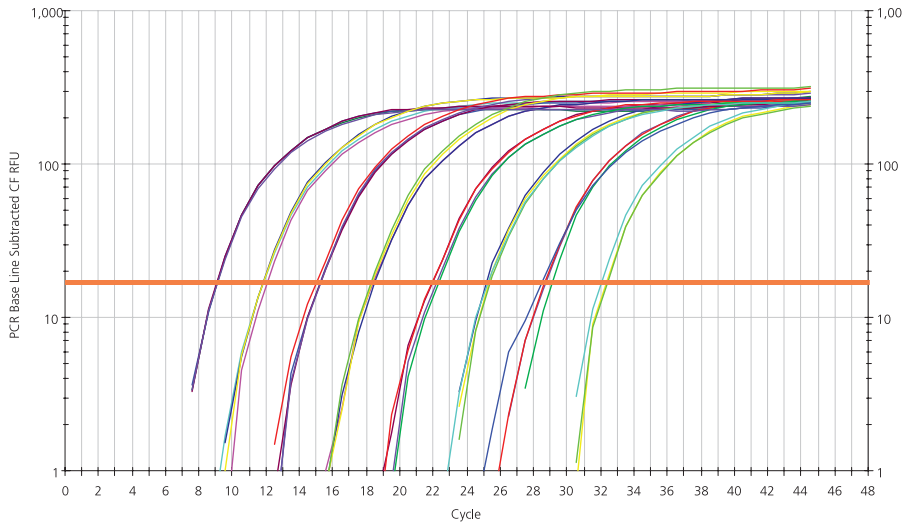
Ample detection of up to 2 different target genes

Single-plex (S) and duplex detection (D) of target genes is possible with VeriQuest Probe qPCR Master Mix, No Reference Dye for gene expression verification.

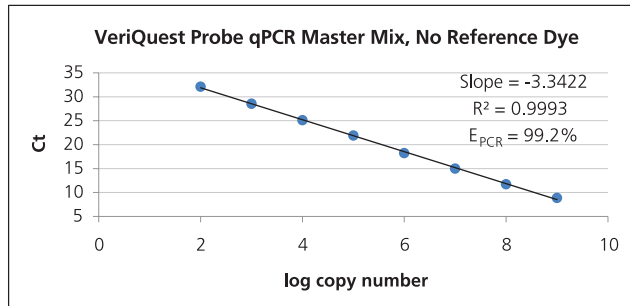
Storage:

Shipped on dry ice. Store at -20°C for long-term storage. Store at 4-8°C for short-term storage (≤3 months).

Linear Detection Range of VeriQuest Probe qPCR Master Mix, No Reference Dye



Real-time amplification plot and standard curve from a 10-fold dilution series of a synthetic target with starting amounts of 10^{10} copies amplified in four replicate reactions using the Bio-Rad MyiQ Real-Time PCR System and GAPDH primer-probe set (Fam-BHQ[®]-1).



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Product code	Pack size
75660	40 reactions
	200 reactions
	400 reactions
	1,000 reactions
	2,000 reactions

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