

# Gene Expression & qPCR

# AzuraQuant™ Probe One-Step qPCR Mix

The AzuraQuant™ Probe One-Step qPCR Mix is a ready-to-use 2x master mix and companion thermostable reverse transcriptase for use in highly sensitive real-time RT-PCR assays and has been formulated for probe-detection technology, including TaqMan®, Scorpions® and molecular beacon probes.

The AzuraQuant™ Probe One-Step qPCR Mix is powered by Azura HS Taq DNA Polymerase, HighTherm™ Reverse Transcriptase, and an optimized buffer chemistry, providing robust first-strand cDNA synthesis and real-time PCR in a single tube. The Mix delivers earlier quantification cycle values (Ct) and broad range detection for increased sensitivity, speed, reliability and reproducibility.

The AzuraQuant™ Probe One-Step qPCR Mix can be used to quantify a specific target RNA from either total RNA or mRNA while reducing the number of pipetting steps and time to result. The AzuraQuant™ Probe One-Step qPCR Mix requires little if any optimization and employs rapid antibody-mediated hot-start activation and a processive enzyme chemistry, providing unmatched performance in multiplexing.

In order to determine instrument compatibility and the most appropriate ROX™ variant, please refer to the AzuraQuant™ Selection Table.

## Applications

- Multiplex RT-qPCR
- Gene Expression analysis
- Pathogen detection
- Viral Quantitation
- Biomarker discovery
- Gene knock-down validation
- Microarray validation and Detection of extremely low copy targets

## Flexibility

- Compatible with standard and fast cycling instruments and a wide range of cycling parameters

## Accurate Quantification

- Hot-Start chemistry reduces primer-dimer formation and allows room-temperature assembly

## Superior Multiplex Capability

- Advanced formulation provides unrivalled sensitivity in singleplex as well as complex multiplex assays

## Sensitivity of AzuraQuant™ Probe One-Step qPCR Mix

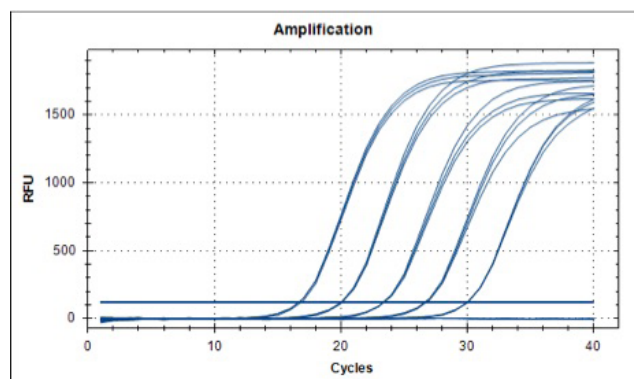


Fig 1.

- AzuraQuant™ Probe One-Step qPCR Mix exhibits excellent sensitivity and specificity with limited input RNA
- Mouse  $\beta$ -actin amplified with AzuraQuant™ Probe One-Step qPCR Mix using gene specific primers and TaqMan® probe directly from 10-fold serial dilutions of mouse Total RNA (to a minimum of 1pg)



# AzuraQuant™ Probe One-Step qPCR Mix

Product	Pack Size	Catalog No.	Price
AzuraQuant™ Probe One- Step qPCR Mix HiRox	100 Reactions	AZ-3901	\$135
AzuraQuant™ Probe One- Step qPCR Mix HiRox	500 Reactions	AZ-3905	\$610
AzuraQuant™ Probe One- Step qPCR Mix HiRox	1,000 Reactions	AZ-3910	\$1,075
AzuraQuant™ Probe One- Step qPCR Mix LoRox	100 Reactions	AZ-4101	\$135
AzuraQuant™ Probe One- Step qPCR Mix LoRox	500 Reactions	AZ-4105	\$610
AzuraQuant™ Probe One- Step qPCR Mix LoRox	1,000 Reactions	AZ-4110	\$1,075
AzuraQuant™ Probe One- Step qPCR Mix NoRox	100 Reactions	AZ-4301	\$135
AzuraQuant™ Probe One- Step qPCR Mix NoRox	500 Reactions	AZ-4305	\$610
AzuraQuant™ Probe One- Step qPCR Mix NoRox	1,000 Reactions	AZ-4310	\$1,075