



Gene Expression & qPCR



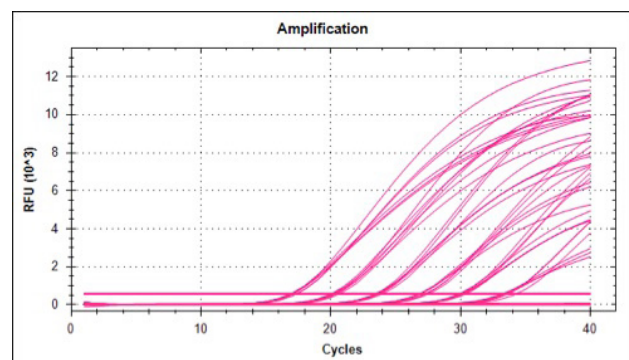
AzuraQuant™ Probe Fast qPCR Mix

The AzuraQuant™ Probe Fast qPCR Mix is a ready-to-use 2x master mix for use in real-time quantitative PCR assays and has been formulated for probe-detection technology, including TaqMan®, Scorpions® and molecular beacon probes.

The AzuraQuant™ Probe Fast qPCR Mix contains Azura HS Taq DNA Polymerase and an optimized buffer chemistry providing robust real-time PCR with earlier quantification cycle values (Ct) and broad range detection for increased sensitivity, speed, reliability and reproducibility.

In addition, the mix exhibits superior sensitivity in complex multiplex reactions, in which multiple amplicons can be detected without a loss in efficiency. The AzuraQuant™ Probe Fast qPCR Mix requires little if any optimization and can be used to quantify any DNA templates including cDNA, genomic DNA, and low copy viral sequences while providing exceptional resistance to many PCR inhibitors. The master mix also employs rapid antibody-mediated hot-start activation and processive enzyme chemistry, making it compatible with both standard and fast instrument cycling programs. The AzuraQuant Probe Fast qPCR Mix is also available in a universal formulation (with separate ROX™). Please inquire for availability and pricing.

A. AzuraQuant™ Probe Fast Mix in MultiPlex qPCR (quadplex)



Applications

- Probe-based detection of DNA/cDNA
- Gene Expression analysis
- Multiplex qPCR and Two-Step RT-qPCR
- Detection of sequence variants

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

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

B. 2X Kapa Probe Fast qPCR for comparison

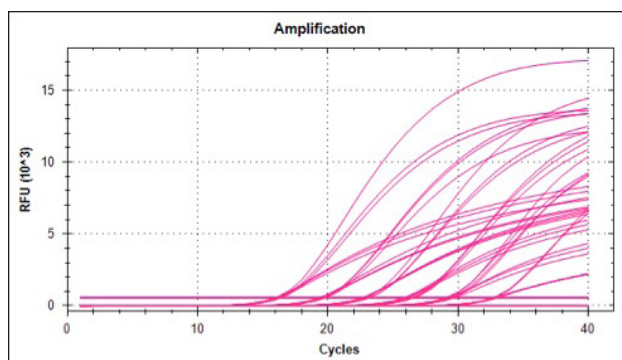


Fig 1.

- TaqMan® Probe assays using human gene ACVR2B in singleplex and multiplex (4-plex) from a cDNA serial dilution series (with amplification curves overlaid). AzuraQuant™ Probe Fast Mix (Panel A) exhibits significantly less PCR inhibition in multiplex than 2X Kapa Probe Fast qPCR (Panel B).



AzuraQuant™ Probe Fast qPCR Mix

Product	Pack Size	Catalog No.	Price
AzuraQuant™ Probe Fast qPCR Mix HiRox	100 Reactions	AZ-2701	\$55
AzuraQuant™ Probe Fast qPCR Mix HiRox	500 Reactions	AZ-2705	\$245
AzuraQuant™ Probe Fast qPCR Mix HiRox	2,000 Reactions	AZ-2720	\$895
AzuraQuant™ Probe Fast qPCR Mix LoRox	100 Reactions	AZ-2801	\$55
AzuraQuant™ Probe Fast qPCR Mix LoRox	500 Reactions	AZ-2805	\$245
AzuraQuant™ Probe Fast qPCR Mix LoRox	2,000 Reactions	AZ-2820	\$895
AzuraQuant™ Probe Fast qPCR Mix NoRox	100 Reactions	AZ-2901	\$55
AzuraQuant™ Probe Fast qPCR Mix NoRox	500 Reactions	AZ-2905	\$245
AzuraQuant™ Probe Fast qPCR Mix NoRox	2,000 Reactions	AZ-2920	\$895