

Gene Expression & qPCR



AzuraQuant™ Green Fast qPCR Mix

The AzuraQuant™ Green Fast qPCR Mix is a ready-to-use 2x master mix for use in real-time quantitative PCR assays in which intercalating dye-based detection provides the option of a post amplification melt profile. The system contains Vivid-Green™ dye, a novel fluorescent DNA-binding dye which produces minimal PCR inhibition and greater fluorescence upon binding to double stranded DNA than SYBR® Green I.

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

The AzuraQuant™ Green Fast qPCR Mix is also available in a formulation which includes an inert, blue tracer dye to facilitate easy pipetting and a universal formulation (with separate ROXTM). Please inquire for availability and pricing.

Applications

- Fluorescent detection of DNA/cDNA
- Gene Expression analysis
- 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

Sensitivity and Speed

- Optimized buffer chemistry allows detection of low-copy targets with earlier quantification values

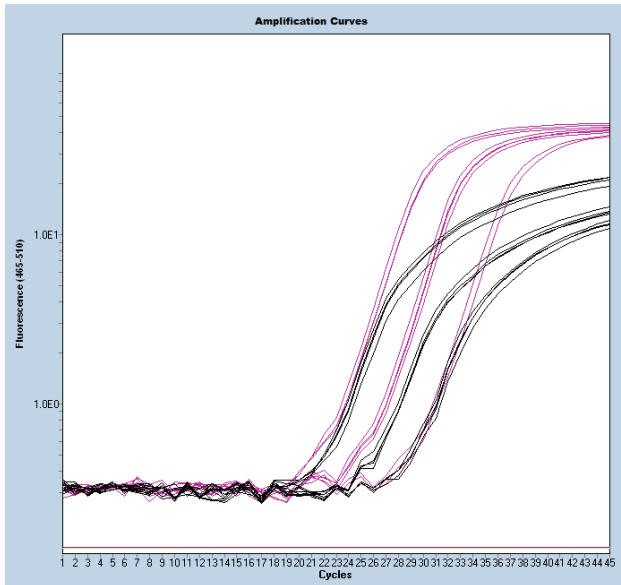
In order to determine instrument compatibility and the most appropriate ROX™ variant, please refer to the AzuraQuant™ Selection Table.

Product	Pack Size	Catalog No.	Price
AzuraQuant™ Green Fast qPCR Mix HiRox	100 Reactions	AZ-2001	\$55
AzuraQuant™ Green Fast qPCR Mix HiRox	500 Reactions	AZ-2005	\$245
AzuraQuant™ Green Fast qPCR Mix HiRox	2,000 Reactions	AZ-2020	\$895
AzuraQuant™ Green Fast qPCR Mix LoRox	100 Reactions	AZ-2101	\$55
AzuraQuant™ Green Fast qPCR Mix LoRox	500 Reactions	AZ-2105	\$245
AzuraQuant™ Green Fast qPCR Mix LoRox	2,000 Reactions	AZ-2120	\$895
AzuraQuant™ Green Fast qPCR Mix Fluor	100 Reactions	AZ-2201	\$55
AzuraQuant™ Green Fast qPCR Mix Fluor	500 Reactions	AZ-2205	\$245
AzuraQuant™ Green Fast qPCR Mix Fluor	2,000 Reactions	AZ-2220	\$895

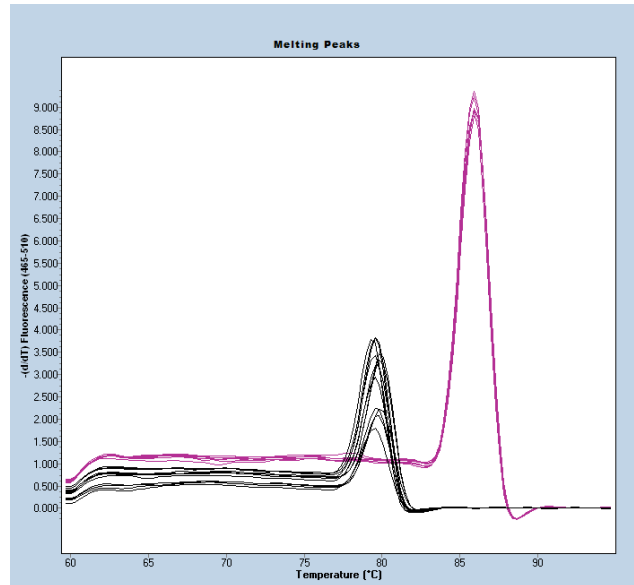


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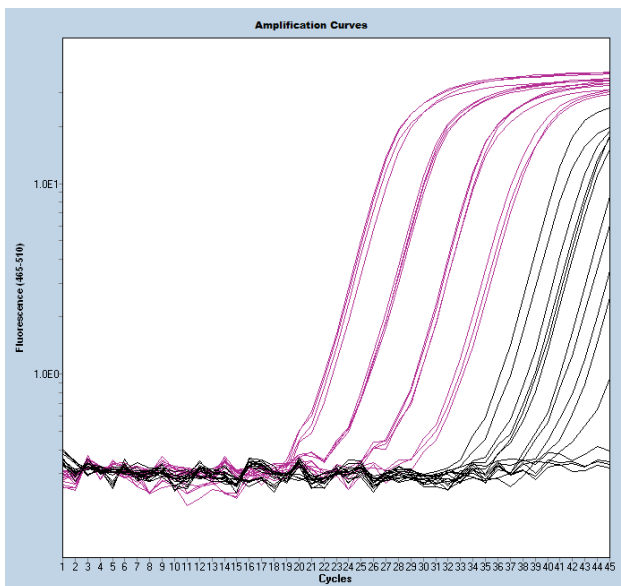
Panel A Trace



Panel A Melt



Panel B Trace



Panel B Melt

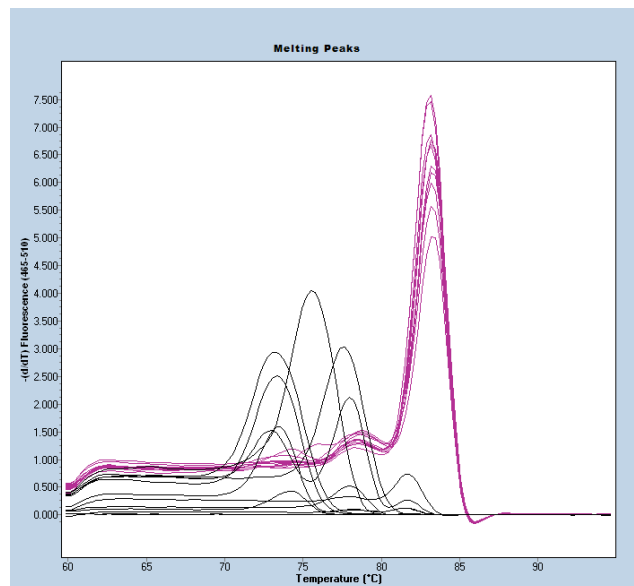


Fig 1. Superior Overall Performance and Speed of AzuraQuant™ Green Fast Mix.

- qPCR amplification and melt traces of mouse housekeeping gene Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) from a cDNA dilution series. Cycling conditions were 95°C 2min, 40 cycles of 95°C 10sec, 60°C 15sec on Roche LC480. Panel A: AzuraQuant™ Green Fast Mix (Purple) is compared with Applied Biosystems Power SYBR® Green PCR Master Mix (Black). Panel B: AzuraQuant™ Green Fast Mix (Purple) is compared with Qiagen QuantiTect® SYBR Green PCR Kit (Black). In each case, AzuraQuant™ Green Fast Mix exhibits earlier Ct values.