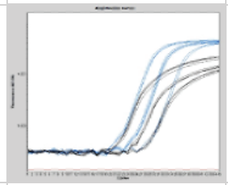
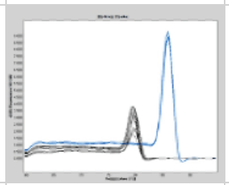
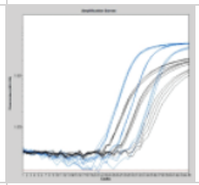
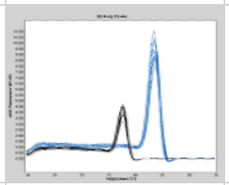
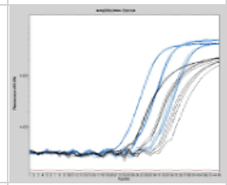
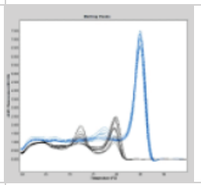
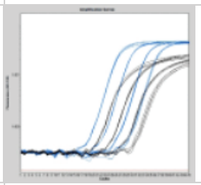
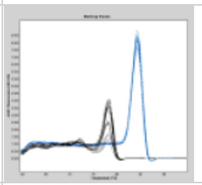
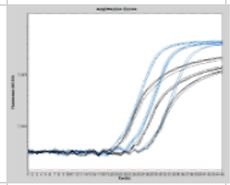
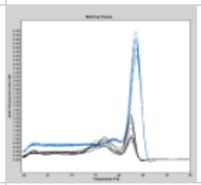
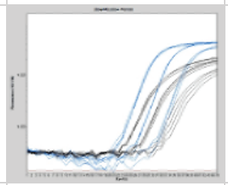
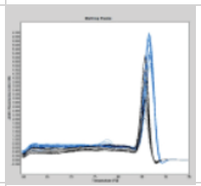
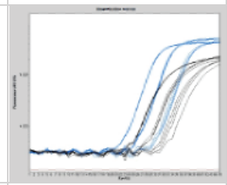
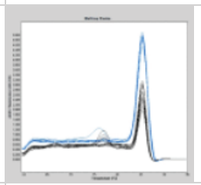
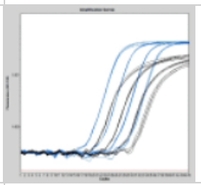
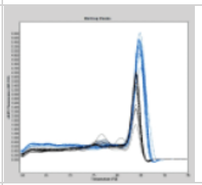
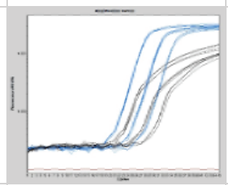
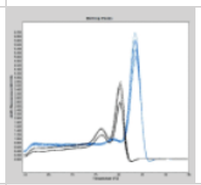
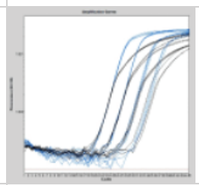
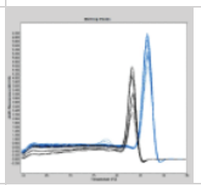
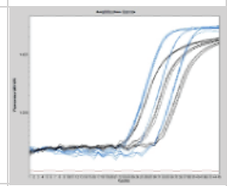
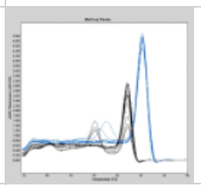
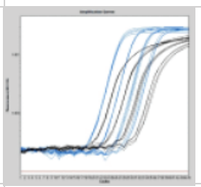
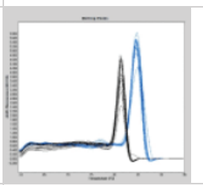
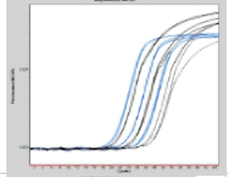
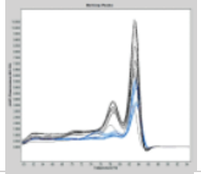
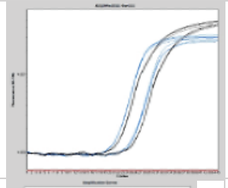
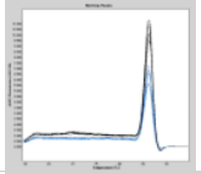
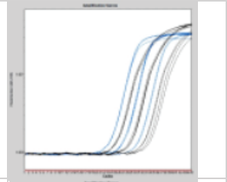
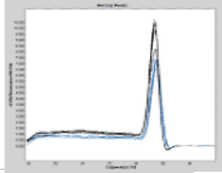
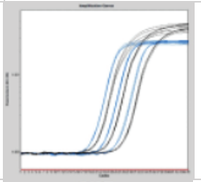
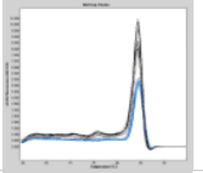
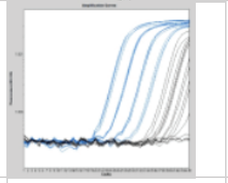
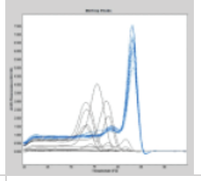
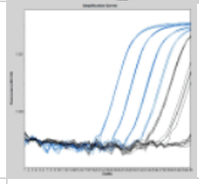
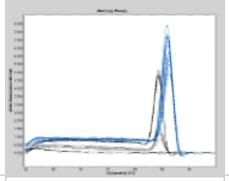
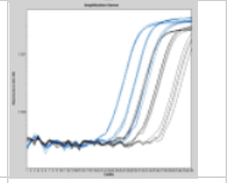
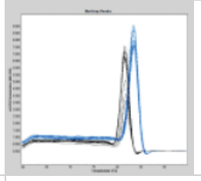
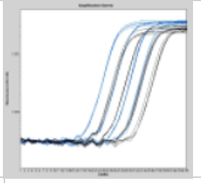
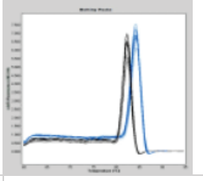
PR1MA qMax Green, qPCR reagent performance compared to popular qPCR competitors

MIDSCI™
Laboratory Equipment & Supplies

	Glyceraldehyde 3-phosphate dehydrogenase (GAPDH)		Phosphoglycerate kinase 1 (PGK-1)		Calnexin (CANX)		Actin Gamma-1 (ACTG1)	
ABI Power SYBR Green PCR Master Mix								
Invitrogen EXPRESS SYBR® GreenER™ qPCR Supermix								
Quanta Biosciences PerfeCTa® SYBR® Green FastMix®								
Biorad iTaq™ Fast SYBR® Green Supermix								
Qiagen QuantiTect SYBR Green PCR Kit								
KAPA Biosystems SYBR® FAST qPCR Kits								

Shown are amplification and melt traces of 4 mouse house keeping genes from a cDNA dilution series. PR1MA qMax Green Mix traces (shown as blue) are compared to 6 competitor qPCR mixes (black). PCR cycling conditions were 95C for 2min, 40 cycles 95C for 10sec, 60C for 15sec using a Roche LC480 instrument.

For GAPDH amplicon qMax Green mix shows 1 to 3 Ct values earlier for 4 of 6 competitor mixes and equal Ct to 2 mixes. The sensitivity of qMax Green mix was superior to 4 of 5 competitor mixes, demonstrated by absence of primer-dimer. Applied Biosystems mix showed equal sensitivity for this amplicon.

For PGK amplicon qMax Green Mix had Ct values equal or earlier than 5 of 6 competitor mixes. Sensitivity was equal to 4 mixes and superior to 2 mixes.

For CANX amplicon, qMax Green Mix Ct values were 1 to 6 earlier than 5 of 6 competitor mixes and equal to Kapa Biosystems mix. Sensitivity was superior to 3 of 6 mixes and equal to the other 3 mixes.

For ACTG1 amplicon qMax Green mix was 2 to 4 Ct values earlier than 5 of 6 competitor mixes. The Ct was equal to that of Kapa Biosystems. The sensitivity of qMax Green mix was equal to 5 of 6 competitor mixes, but superior to Kapa Biosystems, demonstrated by absence of primer-dimer at low template concentrations.