qPCRBIO **SyGreen Mix**

- Sensitive
- Specific
- Fast

Features

- Non-PCR inhibiting intercalating dye, better signal
- Rapid extension rate for early Ct values
- Market leading sensitivity - increased limit of detection
- Compatible on all real-time PCR platforms - standard and fast cycling conditions

Applications

- Absolute quantification
- Relative gene expression analysis
- High throughput qPCR from genomic, cDNA and viral sequences
- Low copy number target genes

Further Applications

- Crude sample PCR
- Standard and fast PCR conditions
- Specific amplification from complex templates (eg GC/AT rich)
- Compatible with all real-time PCR instruments

PCR Biosystems use a proprietary intercalating dye which does not inhibit PCR, unlike other popular fluorescent dyes. Combined with advanced enzyme, hot-start and reaction buffer technology we offer market leading sensitivity and reproducibility.

qPCRBIO SyGreen Mix can be used to quantify any DNA template including genomic, cDNA and viral sequences. Extremely low copy number targets can be detected specifically with high efficiency. Proprietary small molecular inhibitor technology prevents formation of primer dimers and non-specific products leading to improved reaction sensitivity and specificity. Combining the latest advancements in polymerase technology and advanced buffer chemistry we offer market leading performance with minimal or no optimisation.

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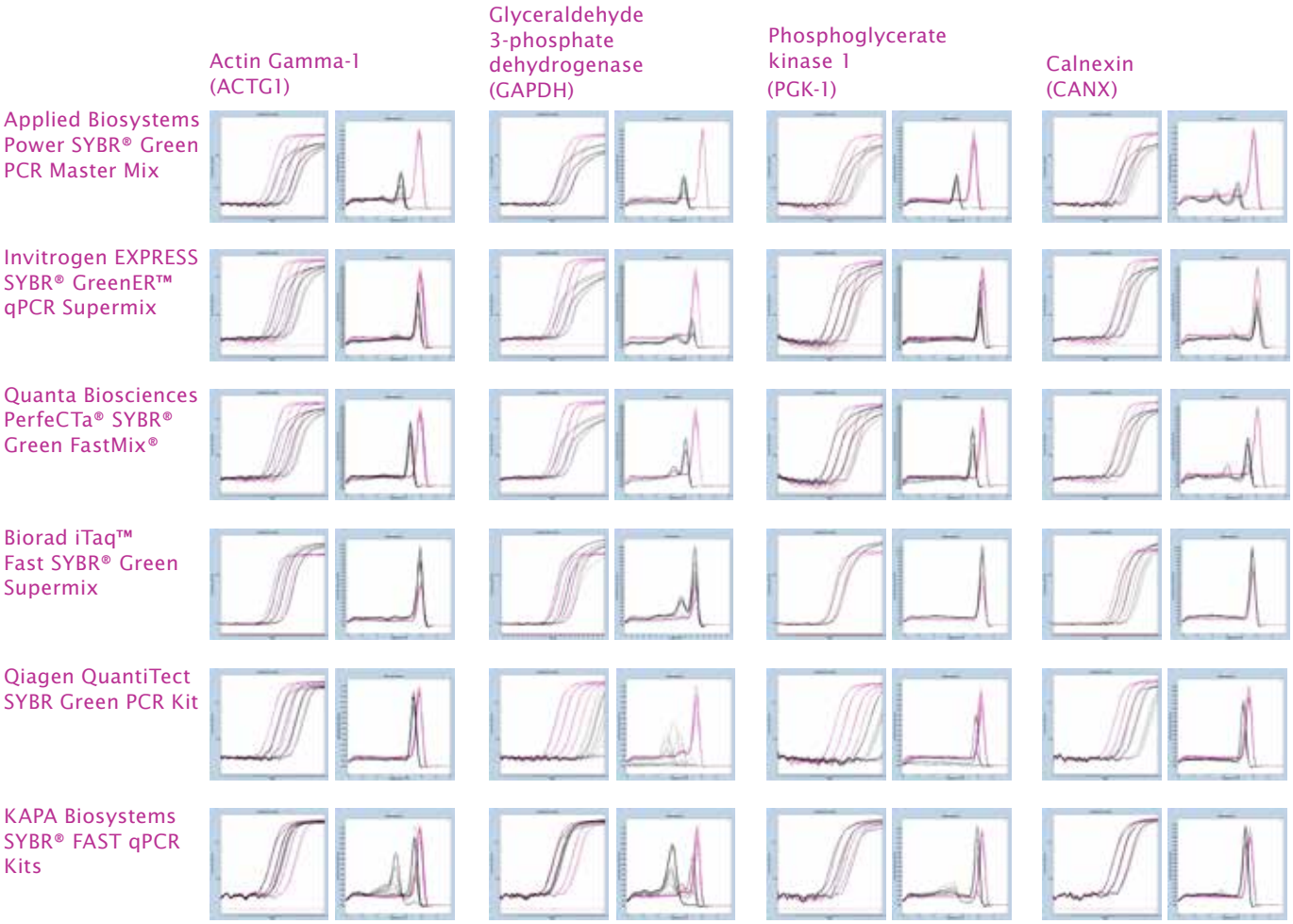

Black trace = Competitor Mix
Purple trace = qPCRBIO

Figure 1.

Shows amplification and melt traces of 4 mouse housekeeping genes from a cDNA dilution series. qPCRBIO SyGreen Mix traces (purple) and 6 competitor mixes (black). Cycling conditions were 95ºC 2min, 40 cycles of 95ºC 10sec, 60ºC 15sec on Roche LC480. For ACTG1 amplicon qPCRBIO 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 qPCRBIO mix was equal to 5 of 6 competitor mixes, but superior to Kapa Biosystems, demonstrated by absence of primer-dimer at low template concentrations. For GAPDH amplicon qPCRBIO mix was 1 to 3 Ct values earlier for 4 of 6 competitor mixes and equal to 2 mixes. The sensitivity of qPCRBIO 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, qPCRBIO mix had Ct values equal or lower than 5 of 6 competitor mixes. Sensitivity was equal to 4 mixes and superior to 2 mixes. For CANX amplicon, Ct values were 1 to 6 lower 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.

Overall, qPCRBIO SyGreen mix outperformed each competitor mix on the 4 amplicons tested.

Catalogue Number	Product Name	Pack size	Presentation
PB20.11-01	qPCRBIO SyGreen Mix Lo-ROX	100 x 20µl rxns	1 x 1ml
PB20.11-05		500 x 20µl rxns	5 x 1ml
PB20.11-20		2000 x 20µl rxns	20 x 1ml
PB20.12-01	qPCRBIO SyGreen Mix Hi-ROX	100 x 20µl rxns	1 x 1ml
PB20.12-05		500 x 20µl rxns	5 x 1ml
PB20.12-20		2000 x 20µl rxns	20 x 1ml

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