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
- Blue mix available for easy sample visualisation during pipetting

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 that 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 and with high efficiency. Antibody-mediated hot start technology prevents the formation of primer dimers and non-specific products leading to improved reaction sensitivity and specificity. Combining the latest developments in polymerase technology and advanced buffer chemistry we offer market-leading performance with minimal or no optimisation.

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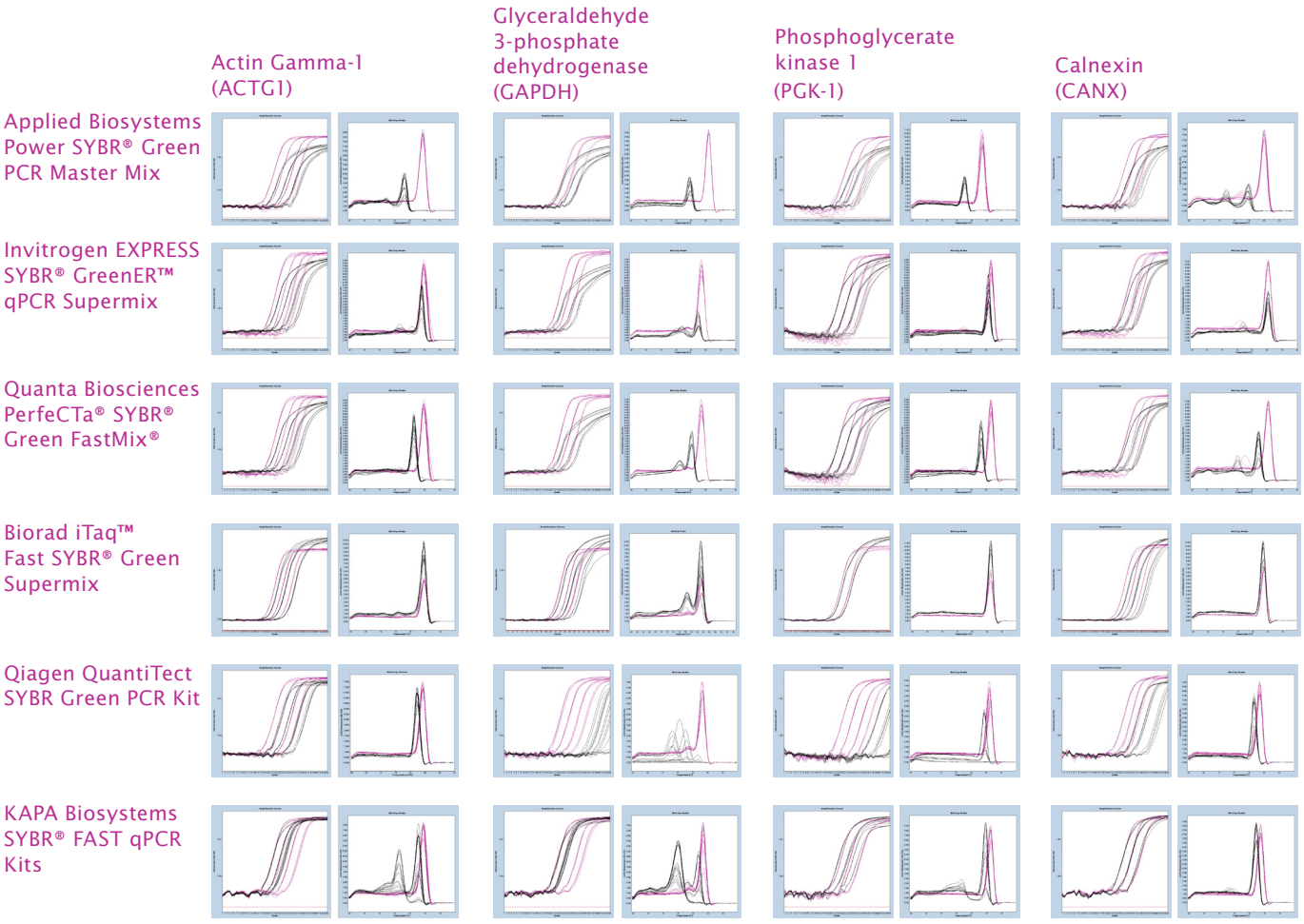

Figure 1.

Black trace = Competitor Mix
Purple trace = qPCRBIO SyGreen Mix

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 95˚C 2min, 40 cycles of 95˚C 10sec, 60˚C 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
17-501	qPCRBIO SyGreen Mix Lo-ROX	100 x 20µl rxns	1 x 1ml
17-501B		500 x 20µl rxns	5 x 1ml
17-501C		2000 x 20µl rxns	20 x 1ml
17-502	qPCRBIO SyGreen Mix Hi-ROX	100 x 20µl rxns	1 x 1ml
17-502B		500 x 20µl rxns	5 x 1ml
17-502C		2000 x 20µl rxns	20 x 1ml
17-503	qPCRBIO SyGreen Mix with Fluorescein	100 x 20µl rxns	1 x 1ml
17-503B		500 x 20µl rxns	5 x 1ml
17-503C		2000 x 20µl rxns	20 x 1ml
17-504	qPCRBIO SyGreen Mix Separate-ROX	100 x 20µl rxns	[1 x 1ml mix] & [1 x 200µl ROX]
17-504B		500 x 20µl rxns	[5 x 1ml mix] & [1 x 200µl ROX]
17-504C		2000 x 20µl rxns	[20 x 1ml mix] & [4 x 200µl ROX]

Distributed by:

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