qPCRBIO **Probe Mix**

- High efficiency in multiplex reactions
- Rapid extension rate for early Ct values
- Market-leading sensitivity

Features

- High efficiency in multiplex reactions
- 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
- Efficient amplification from GC rich and AT rich templates
- Antibody-mediated hot start technology
- Blue mix available for easy sample visualisation during pipetting

Applications

- Absolute quantification
- Relative gene expression analysis
- TaqMan®, Scorpions® and molecular beacon probes
- Low copy number target genes
- Multiplex or singleplex
- Diagnostic real-time PCR

qPCRBIO Probe Mix is a universal probe kit designed for use in all probe-based real-time PCR assays. Whether your application is for a singleplex or multiplex expression study or a diagnostic assay, qPCRBIO Probe Mix is the robust choice for all your probe-based real-time PCR needs.

qPCRBIO Probe 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.

Combining the latest advancements in polymerase technology and advanced buffer chemistry we offer market-leading performance with minimal or no optimisation and high efficiency in multiplexed reactions.

PCRBIOSYSTEMS
simplifying research

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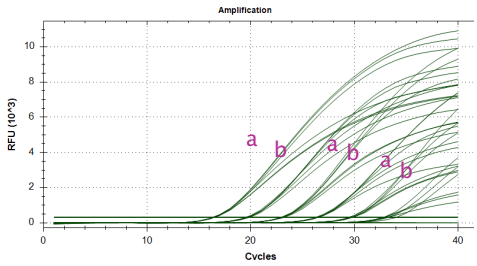
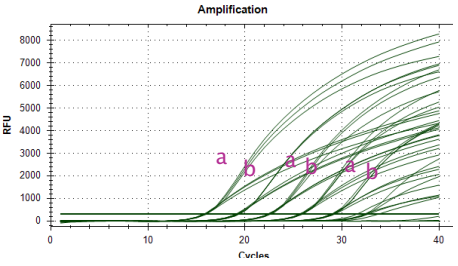
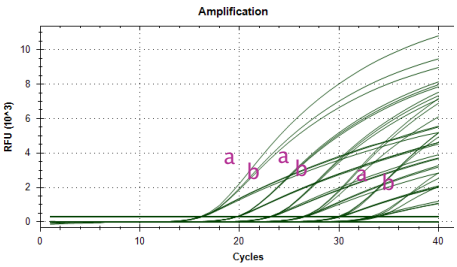
Experiment 1-qPCRBIO Probe Mix
a=Singleplex b=Quadplex



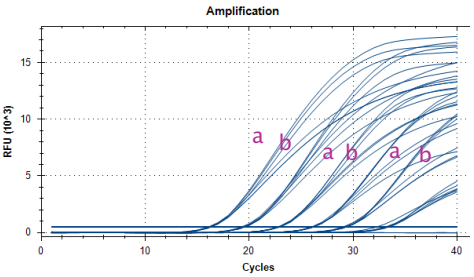
Experiment 2-Invitrogen EXPRESS
a=Singleplex b=Quadplex



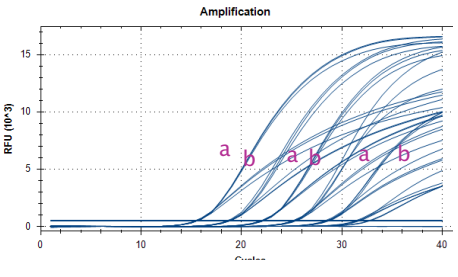
Experiment 3-Biorad Ssofast Probe Mix
a=Singleplex b=Quadplex



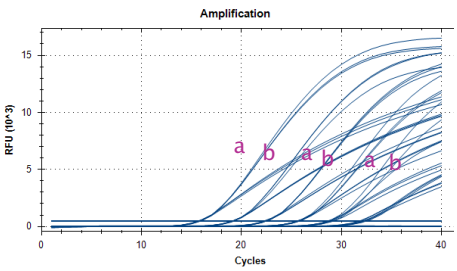
Experiment 4-qPCRBIO Probe Mix
a=Singleplex b=Quadplex



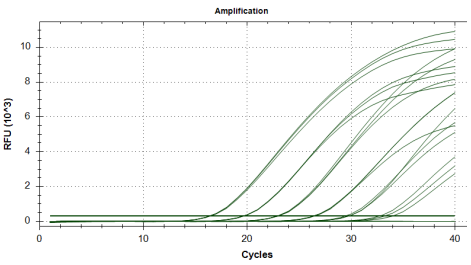
Experiment 5-Invitrogen EXPRESS
a=Singleplex b=Quadplex



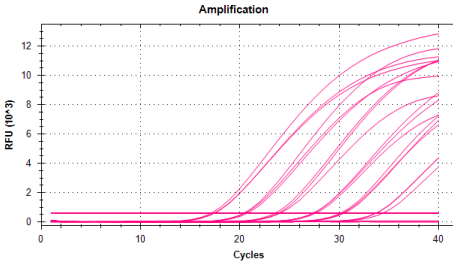
Experiment 6-Biorad Ssofast Probe Mix
a=Singleplex b=Quadplex



Experiment 7-qPCRBIO Probe Mix
Singleplex sensitivity test ACVR2B



Experiment 8-qPCRBIO Probe Mix
Singleplex sensitivity test LIMK1



Experiment 9-qPCRBIO Probe Mix
Singleplex sensitivity test ACVR1B

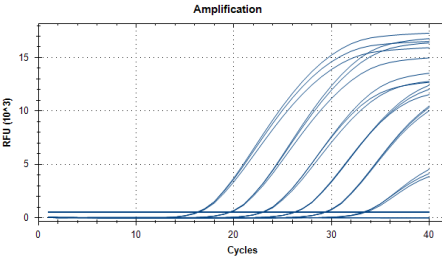


Figure 1.

Experiments 1, 2 and 3 show TaqMan probe amplification traces of human gene ACVR2B in singleplex and in quadplex (ACVR2B, LIMK1, ACVR1B and CDK7) from a cDNA dilution series. a) traces indicate singleplex reactions, b) traces indicate quadplex reactions. qPCRBIO Probe Mix was tested against the latest competitor mixes from Invitrogen (experiment 2) and Biorad (experiment 3). qPCRBIO Probe Mix shows the least PCR inhibition when in multiplex compared to Invitrogen and Biorad mixes. This is evident in more delayed amplification traces in quadplex (b) compared to singleplex (a). Experiments 4, 5 and 6 show TaqMan probe amplification traces of human gene LIMK1 in singleplex and quadplex (ACVR2B, LIMK1, ACVR1B and CDK7). As with experiments 1, 2 and 3 LIMK1 amplification is less inhibited in multiplex in the PCR Biosystems probe mix than the competitor mixes tested. Cycling conditions were 95˚C 2min, 40 cycles of 95˚C 10sec, 60˚C 15sec on Biorad CFX instrument.

Experiments 7, 8 and 9 show TaqMan probe amplification traces from plasmid dilution series of $1x10^6$ copies to 10 copies of DNA. For each gene qPCRBIO Probe Mix amplified with 100% efficiency and detected 10 copies of DNA.

Catalogue Number	Product Name	Pack Size	Presentation
PB20.21-01	qPCRBIO Probe Mix Lo-ROX	100 x 20µl rxns	1 x 1ml
PB20.21-05		500 x 20µl rxns	5 x 1ml
PB20.21-20		2000 x 20µl rxns	20 x 1ml
PB20.22-01	qPCRBIO Probe Mix Hi-ROX	100 x 20µl rxns	1 x 1ml
PB20.22-05		500 x 20µl rxns	5 x 1ml
PB20.22-20		2000 x 20µl rxns	20 x 1ml
PB20.23-01	qPCRBIO Probe Mix No-ROX	100 x 20µl rxns	1 x 1ml
PB20.23-05		500 x 20µl rxns	5 x 1ml
PB20.23-20		2000 x 20µl rxns	20 x 1ml
PB20.24-01	qPCRBIO Probe Mix Separate-ROX	100 x 20µl rxns	[1 x 1ml mix] & [1 x 200µl ROX]
PB20.24-05		500 x 20µl rxns	[5 x 1ml mix] & [1 x 200µl ROX]
PB20.24-20		2000 x 20µl rxns	[20 x 1ml mix] & [4 x 200µl ROX]

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