

appleton®

For the Life Scientist

AppProbe

High ROX Mix (2X)

Sensitive Single or Multiplex qPCR



AppProbe High ROX Mix (2X)

Equally Sensitive Single or Multiplex qPCR

AppProbe High ROX Mix (2X) is a high performance qPCR reagent which has been optimised for fast, specific and sensitive quantitative PCR using probe-detection technologies like Taqman, Molecular Beacons and Scorpion probes. The mix has pre-added, optimised levels of $MgCl_2$ and dNTPs for highly reproducible single-gene or multiplex qPCR. It contains a hot start polymerase which has been specifically engineered for highly specific qPCR and works in fast or standard thermal cycling conditions. Downstream applications include: absolute gene quantification, gene expression analysis and diagnostic qPCR. AppProbe High ROX Mix (2X) has been validated on various qPCR instruments - for a full list of compatible instruments see:

www.appletonwoods.co.uk/qPCRselectionguide.png

Main Features

- For fast, specific and sensitive qPCR
- Equally efficacious in single or multiplex reactions
- Robust detection of low-copy number templates with rapid extension times (low C_T values)
- Pre-optimised ready-mix for detection across a broad range of templates
- Highly specific detection using a fast-activating, hot-start polymerase under fast cycling conditions (shorter runs)
- Compatible with the majority of real-time thermal cyclers (see qPCR selection guide)
- Suitable sample types: complex templates and crude samples

Ordering Information

Description	Product Code	Pack Size
AppProbe High ROX Mix (2X)	ARP402	200 reactions (2x 1mL)
AppProbe High ROX Mix (2X)	ARP403	500 reactions (5x 1mL)
AppProbe High ROX Mix (2X)	ARP405	5000 reactions (1x 50mL)

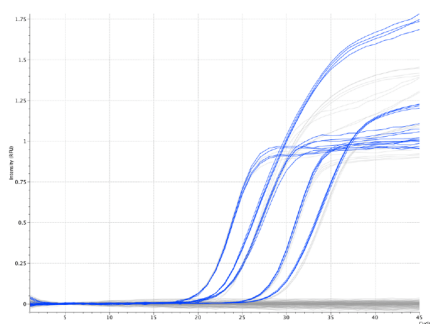


Figure 1

Figure 1: Multiplex qPCR of 5 different genes from human cDNA with AppProbe High ROX Mix (2X). Reaction conditions were: 1 cycle of 95°C for 180s (initial denaturation/ enzyme activation), 45 cycles of: 95°C for 10s (denaturation) and 60°C for 30s (extension). AppProbe High ROX mix works efficiently under fast cycling conditions to generate distinct and reproducible traces for each gene studied.

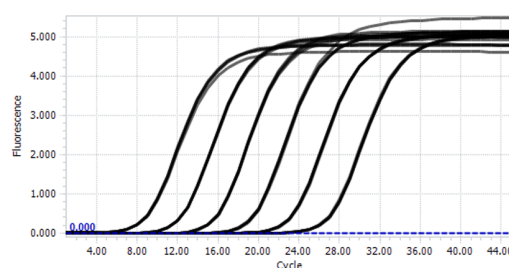


Figure 2

Figure 2: AppProbe High ROX Mix (2X) performance data demonstrating close to 100% efficiency. Data traces of amplification detected using Taqman probes labelled with Cy5 fluorophore. The traces are 10-fold serial dilutions of mouse beta-actin cDNA and are composed of four overlapping replicates. Reaction conditions were: 1 cycle of 95°C for 180s (initial denaturation/ enzyme activation), 45 cycles of: 95°C for 10s (denaturation) and 60°C for 30s (extension).

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Appleton Woods Ltd, New Lindon House, Catesby Park, Kings Norton, Birmingham, B38 8SE
Tel: 0121 458 7740 Fax: 0121 458 5510 E-mail: sales@appletonwoods.co.uk