

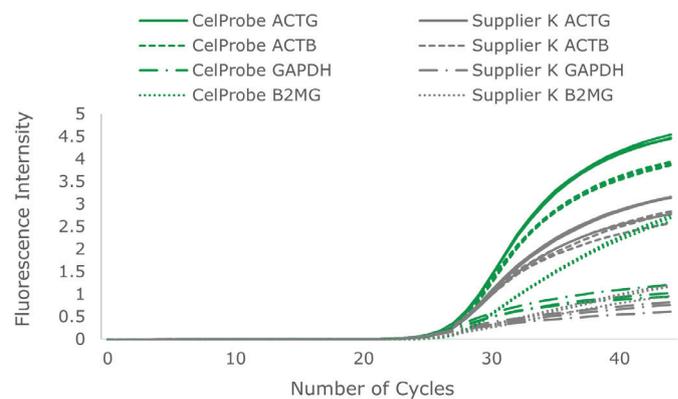
# CelProbe Universal qPCR mix

*Reliable qPCR Probe mix compatible with all qPCR cyclers*

## Why choose CelProbe Universal qPCR mix?

- » Efficient amplification in single- and multiplex reactions
- » Rapid extension results in early Ct values
- » Compatible with TaqMan®, Scorpions® and molecular beacon probes
- » Superior sensitivity on low copy number templates
- » Enhanced specificity supported by a hot-start enzyme
- » Robust performance on difficult templates
- » Compatible with all qPCR cyclers

*CelProbe Universal qPCR mix employs an advanced hot-start polymerase and pre-optimized buffer system for highly specific and sensitive probe-based qPCR detection in single and multiplex assays.*



**Fig. 1 Sensitivity and reproducibility during multiplexing**

Gene expression levels were assessed in triplicate in multiplex reactions on the LC96 instrument. Four genes were amplified (B2MG, ACTB, GAPDH and ACTG) using cDNA generated from mouse liver RNA and Taqman probes with fluorophores TexasRed, HEX, FAM and Cy5. The CelProbe Universal qPCR mix resulted in slightly earlier Ct values and significantly higher signal strength in comparison to the Probe based qPCR mix from Supplier K.

## Description

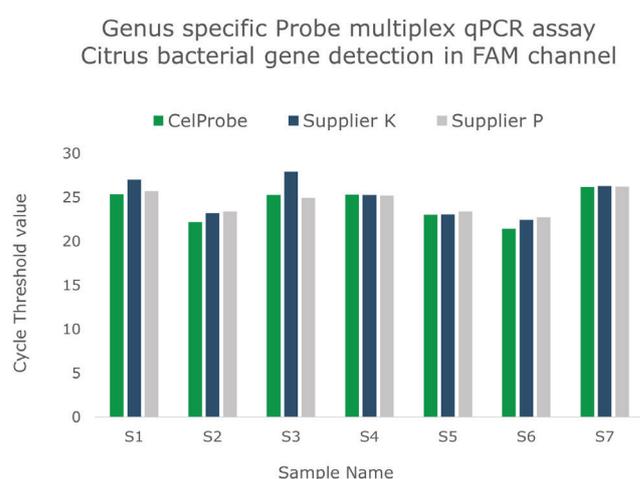
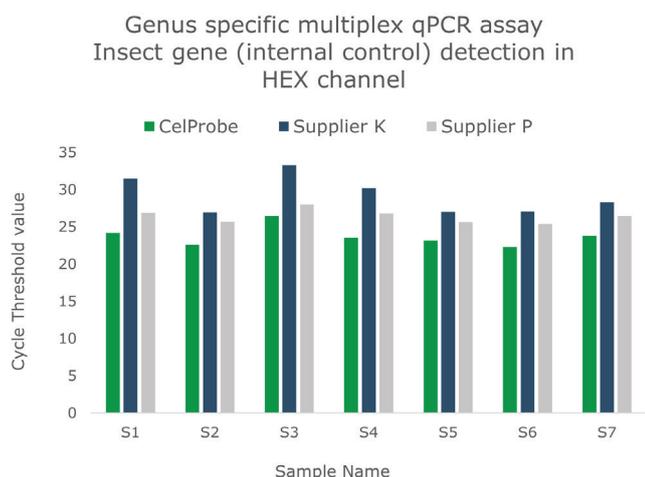
The CelProbe Universal qPCR mix is compatible with probes based on various probe principles, including TaqMan®, Scorpions® and molecular beacon probes. An antibody-mediated hot start polymerase limits the formation of primer dimers and generates highly specific products from extremely low copy number templates.

The mix contains all components required for sensitive, reproducible qPCR (except the template, primers and probes) with little or no optimization required. The ready-to-use real time PCR mix performs well on difficult templates (rich in GC/AT content) and gives reproducible, robust amplification of DNA, cDNA and viral DNA targets.

The mix is supplied with a separate tube of 50µM ROX dye that may be used with instruments requiring ROX as a passive reference dye. CelProbe Universal qPCR mix is suitable for use on all real time PCR cyclers.

Contact Details

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**Fig. 2 Universal (Genus specific) assay for detection of citrus bacterial pathogen in hemipteran insect vector**

A bacterial target gene and insect internal control gene were amplified from insect DNA using the Eco Illumina (now PCRMax) instrument and Taqman probes with fluorophores FAM and HEX respectively. Genus specific primers were used to amplify the bacterial target. The cycling conditions was used as recommended by each manufacturer. The CelProbe Universal qPCR mix resulted in earlier or equal cycle threshold (Ct) values in comparison to supplier K and P, especially in the HEX channel. Experimental data generated by Citrus Research International, South Africa.

## Technical specification

Charateristic	Detail
Instrument compatibility	For use with all real time PCR instruments (supplied with a separate tube of rox dye)
Amplification detection	TaqMan®, Scorpions® and molecular beacon probes
Format	Ready-to-use 2x mix
Polymerase	CelTaq HS DNA polymerase
Increased specificity	Hot-start modification
Cycling speed	Standard and fast modes
Shelf life	12 months (if stored correctly)

## Applications

- » Efficient multiplex detection
- » Absolute quantification
- » Gene expression analysis
- » Detection of low copy number templates
- » High through-put qPCR from DNA/cDNA/viral DNA

## Ordering info

Cat. no	Pack size
CM3311-0200	200rxns (2ml)
CM3311-0500	500rxns (5ml)
CM3311-1000	1000rxns (10ml)

More information at

[www.celticmolecular.com/product/celprobe-universal-qpcr-mix-2x/](http://www.celticmolecular.com/product/celprobe-universal-qpcr-mix-2x/)

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