Real-time Fluorescence Quantitative PCR

Real-time fluorescence quantitative PCR (qPCR) technology utilizes fluorescent dyes or fluorescently labeled specific probes to track and monitor the PCR products in real-time. We have developed multiple qPCR products, among which the most representative one is Taq SYBR® Green qPCR Premix, with its core component being antibody-modified hot-start Taq DNA polymerase. Along with optimized buffer, it ensures high efficiency and specificity of amplification, enabling accurate quantification of a wide range of template concentrations and obtaining stable and reliable qPCR results. Additionally, the Universal version contain a special reference dye compatible with almost all qPCR instruments, eliminating the need to add ROX reference dye on different qPCR instruments.

Product Features

•High specificity

Antibody-modified hot-start Taq DNA polymerase, along with optimized buffer, effectively inhibits non-specific amplification and primer dimer formation.

•Compatible with various samples

Shows high efficiency for samples from different sources.

•Wide detection range

Enables accurate quantification of a wide range of template concentrations or genes with different abundances.

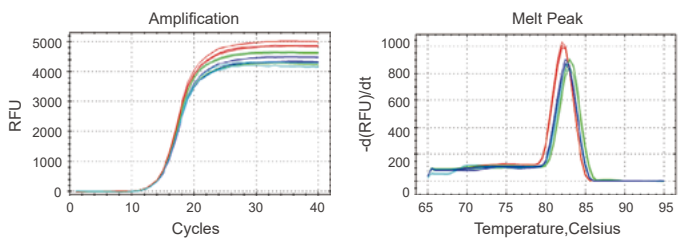
•Perfect compatibility

Universal version performs excellently when used with different types of qPCR instruments, without additional ROX reference dye.

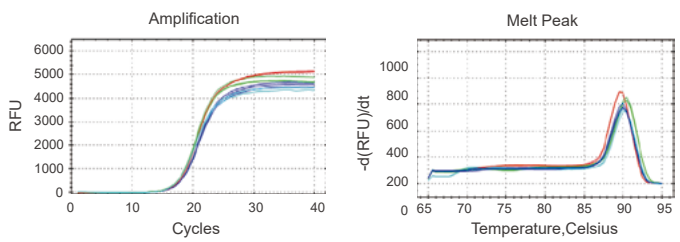
Performance Demonstration

Compatible with Templates from Different Sources

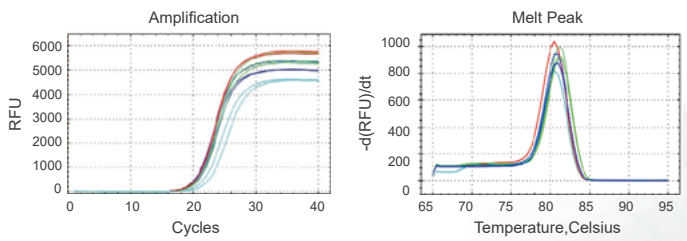
Tomato cDNA (PSBR-2 gene)



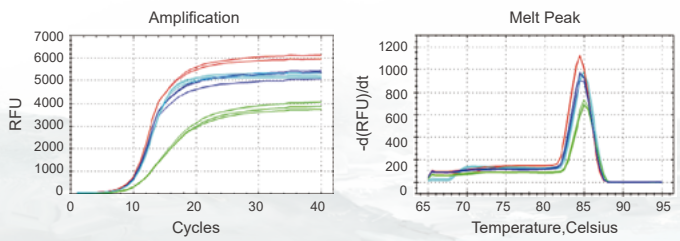
Human cDNA (Actin gene)



Human genomic DNA (DYS14 gene)



pUC19 plasmid DNA



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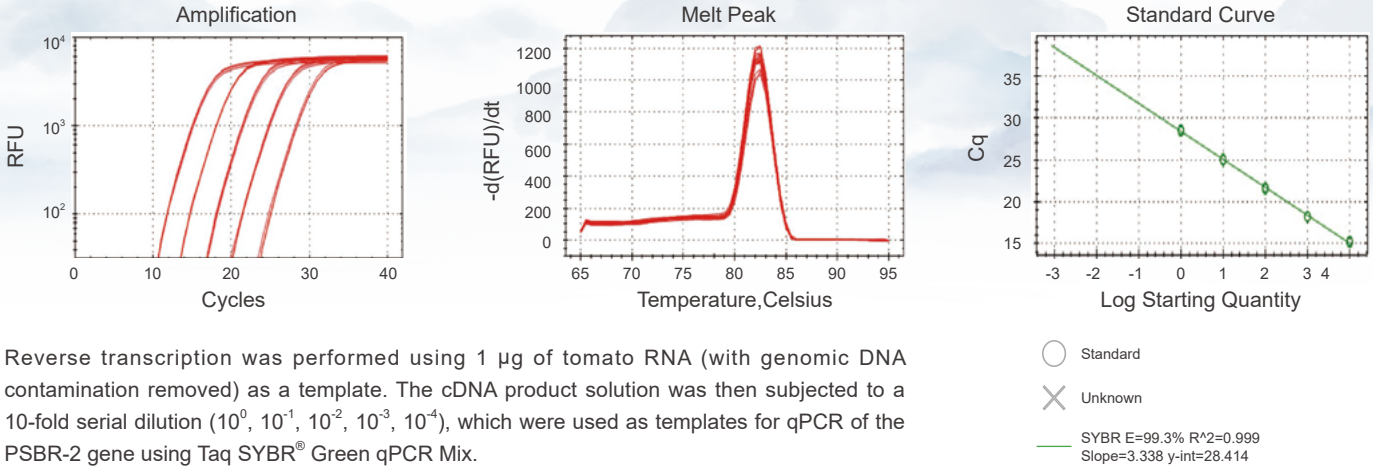
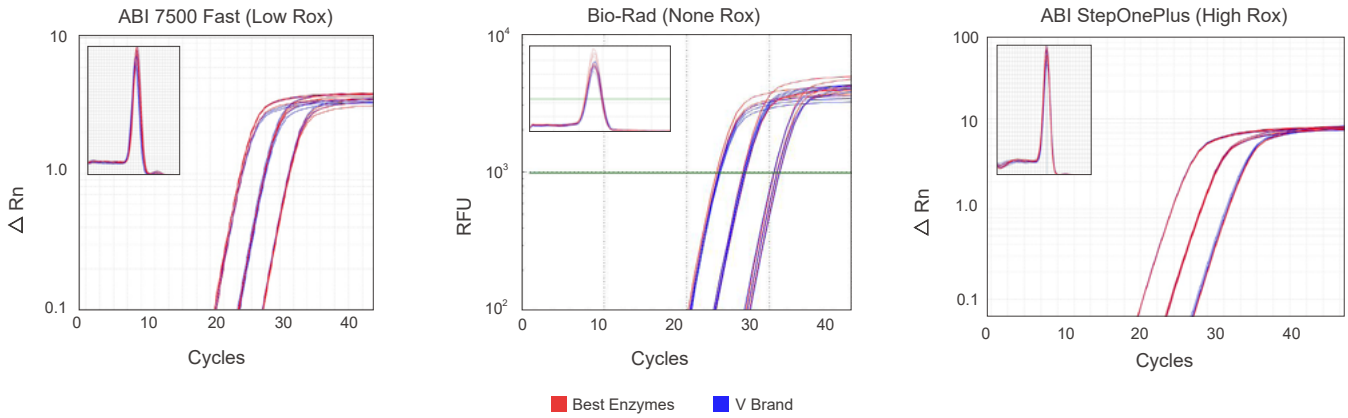
Good Linear Range



Reverse transcription was performed using 1 μg of tomato RNA (with genomic DNA contamination removed) as a template. The cDNA product solution was then subjected to a 10-fold serial dilution (10^0, 10^{-1}, 10^{-2}, 10^{-3}, 10^{-4}), which were used as templates for qPCR of the PSBR-2 gene using Taq SYBR® Green qPCR Mix.

Broad Platform Compatibility



Using the Tag SYBR® Green qPCR Premix (Universal) to amplify genes on different types of qPCR instruments (ABI 7500 Fast, Bio-Rad CFX96, ABI StepOnePlus) yields excellent quantitative results. This demonstrates that the Tag SYBR® Green qPCR Premix (Universal) has broad instrument compatibility and does not require ROX reference dye on different instruments.

Ordering Information

REF No.	Name	Specs	Price(RMB)
EG20110M	Taq-HS SYBR® Green qPCR Premix (None Rox)	5×1 ml	880
EG20113M	Taq-HS SYBR® Green qPCR Premix (Universal)	5×1 ml	990
EG20410M	Taq-HS SYBR® Green qPCR Premix (Rox Separated)	5×1 ml	880
EG20114M	Taq SYBR® Green qPCR Premix (None Rox)	5×1 ml	1080
EG20117M	Taq SYBR® Green qPCR Premix (Universal)	5×1 ml	1200
EG22104M	Taq SYBR® Green qPCR Premix (Rox Separated)	5×1 ml	1080
EG23111L	F488 SYBR qPCR Mix (Universal)	25×1 ml	4000
EG20118M	Taq-HS Probe qPCR Premix (None Rox)	5×1 ml	1080
EG20121M	Taq-HS Probe qPCR Premix (Universal)	5×1 ml	1200
EG22109S	One Step RT-qPCR Probe Kit v2	250 rxns	1600

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