TRANSGEN

TRANSGEN BIOTECH

PerfectStart® Universal Green qPCR SuperMix

Providing Innovative Reagents for Life Sciences since 2006

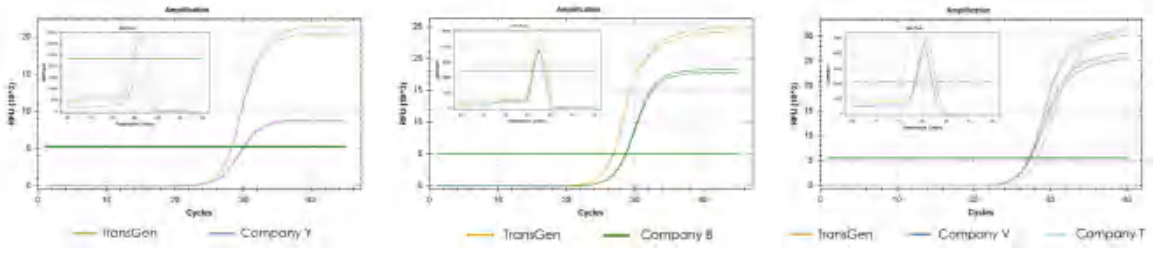
PerfectStart® Universal Green qPCR SuperMix (AQ631)

Features

- Three types of antibody for blocking Taq DNA Polymerase, high specificity, high sensitivity, strong amplification efficiency and a wide range of applicable species.
- Double cation buffer to enhance specificity, reduce primer dimer formation, and ensure accurate data.
- The Universal Passive Reference Dye, which is compatible with different instruments is premixed in the reagent to correct inter-tube differences caused by PCR pipetting errors and calibrate inter-well signal discrepancies.
- High amplification efficiency and good linearity of the standard curve. High fluorescence signal and excellent amplification curve shape.
- With strong amplification capability, it easily amplifies various samples, including polysaccharide and polyphenol-rich plant samples.
- Good stability: no impact on product performance after 10 freeze-thaw cycles or storage at 4°C or 37°C for 7 days.

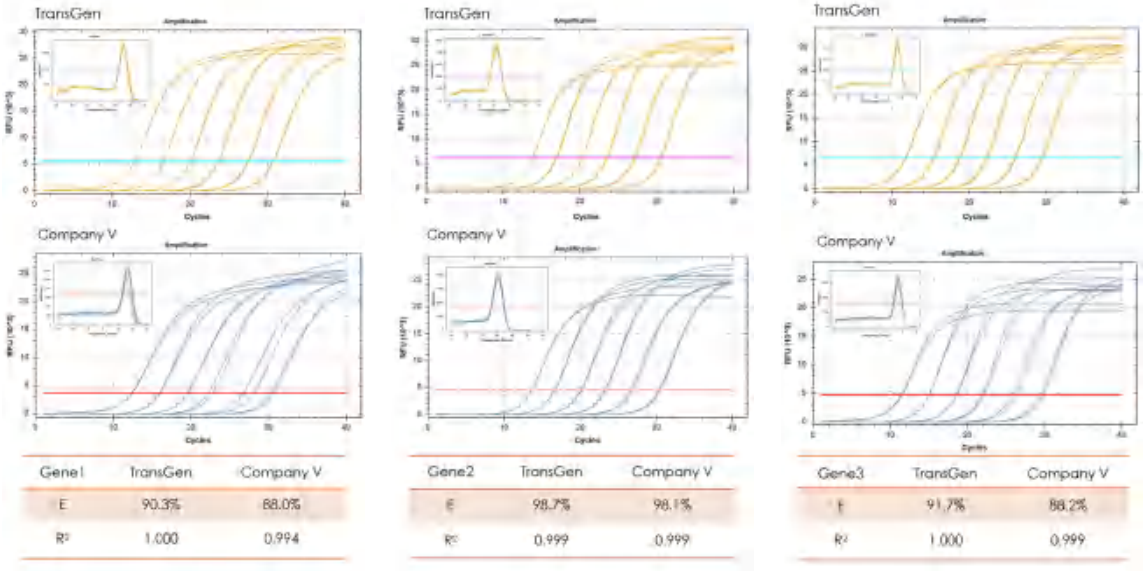
Data

Excellent amplification curve



Gene amplification is performed using products from TransGen, Company Y, Company B, Company V, and Company T. The results showed that AQ631 exhibits strong fluorescence intensity (higher plateau phase value)and excellent amplification curve shape.

High amplification efficiency



Gene1	TransGen	Company V
E	90.3%	88.0%
R^2	1.000	0.994

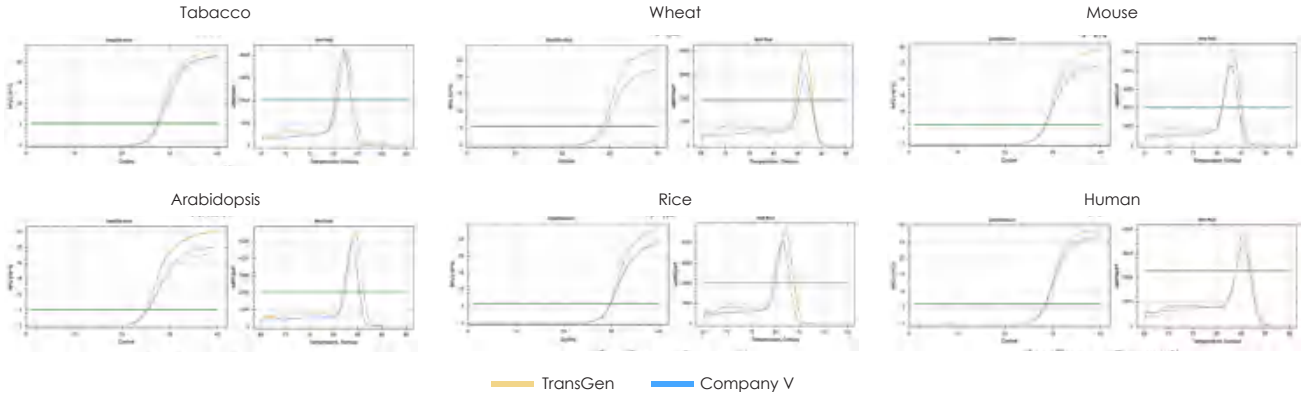
Gene2	TransGen	Company V
E	98.7%	98.1%
R^2	0.999	0.999

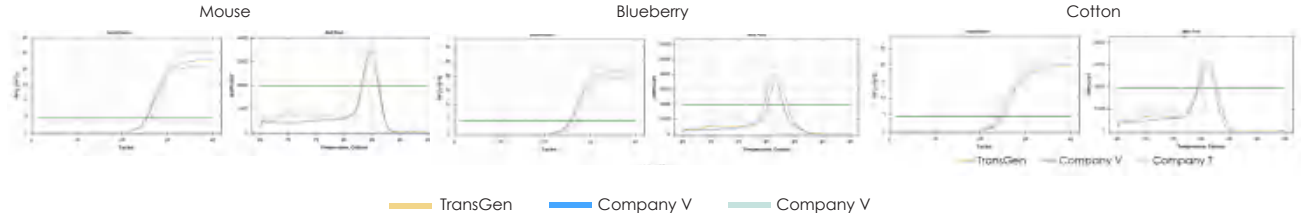
Gene3	TransGen	Company V
E	91.7%	88.2%
R^2	1.000	0.999

Plasmid standards diluted in 10-fold gradients are used as templates to amplify three different genes with TransGen and Company V products. The results show that AQ631 has higher amplification efficiency and better linearity.

Compatible with multiple species

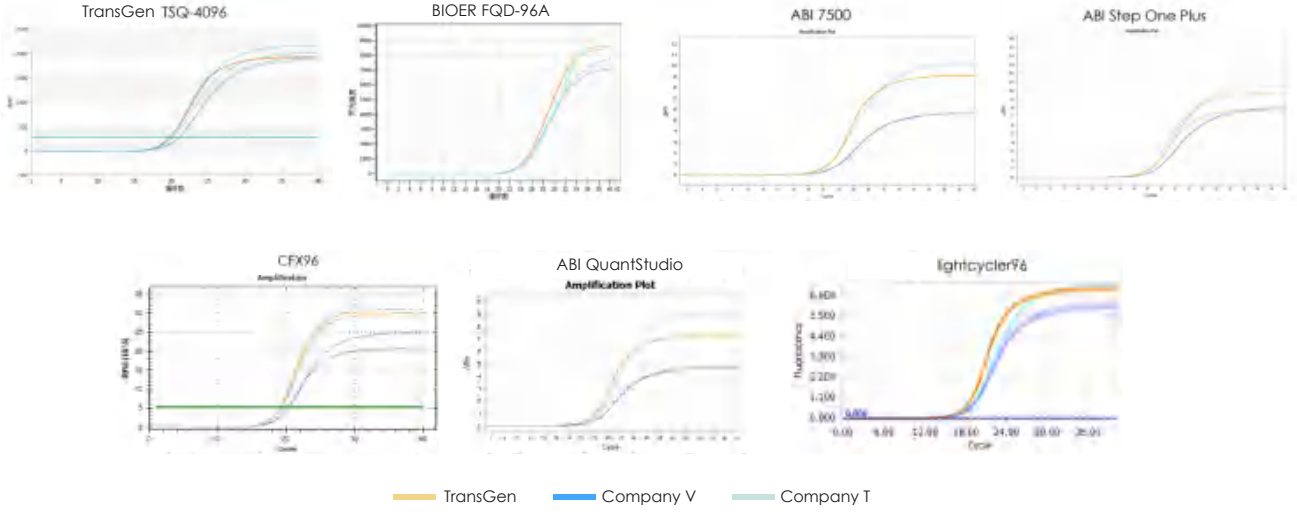
Using cDNA from tobacco, Arabidopsis, wheat, rice, mice, and humans as templates, gene amplification is performed with TransGen and Company V products. The results show that the AQ631 is applicable for amplification of samples from various species, demonstrating strong versatility.





Using gDNA from polysaccharide and polyphenol-rich plants (extracted with TransGen, EE112) as templates, gene amplification is performed with TransGen, Company V, and Company T products. The results show that the polysaccharide and polyphenol-rich plant samples are successfully amplified and AQ631 has strong amplification capability and resistance to inhibition.

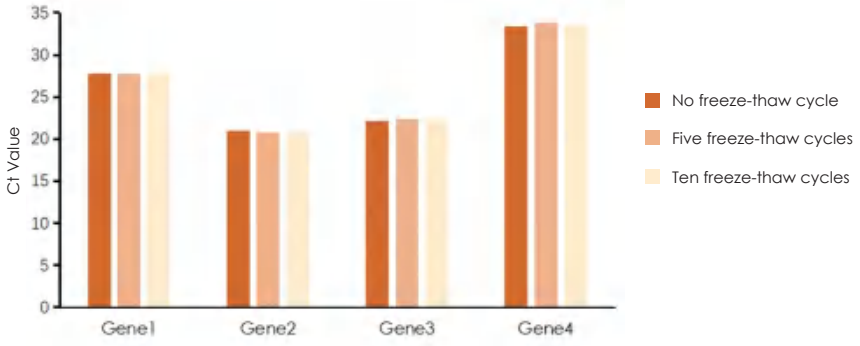
Broad Instrument Compatibility



Gene amplification is performed using products from TransGen, Company V, and Company T with different types of qPCR instruments. The results show that AQ631 does not require ROX adjustment for different instruments and is compatible with a wide range of qPCR systems.

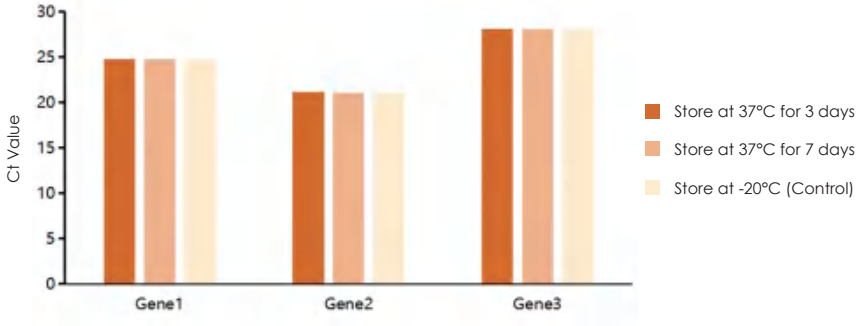
High Stability

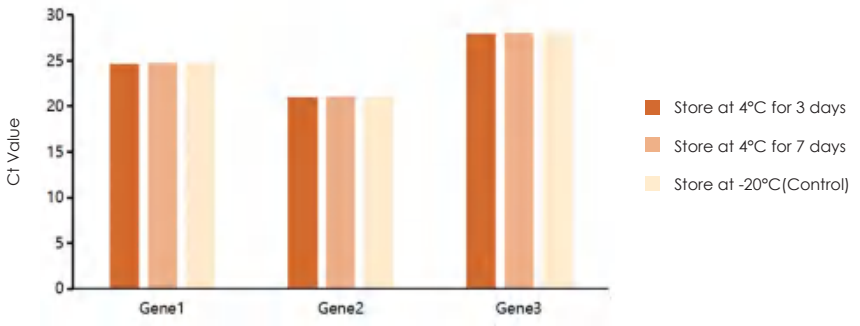
Gene amplification is performed using AQ631 that has undergone 5 and 10 freeze-thaw cycles. The results show that even after repeated freeze-thaw treatments, the performance of AQ631 remain unaffected, ensuring stable amplification.



Stable Performance Under Different Storage Conditions

Gene amplification is performed using AQ631 stored at different temperatures (4°C and 37°C) for 3 and 7 days. The results show that the performance of AQ631 remains unaffected under varying storage conditions, ensuring stable amplification.





TRANSGEN BIOTECH CO., LTD.

Website www.transgenbiotech.com
Phone +86-10-57815030
Customer Service +86-400-898-0321
E-mail custserv@transgenbiotech.com