



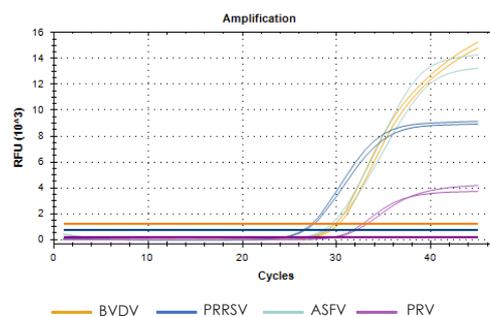
## PerfectStart<sup>®</sup> II Probe qPCR SuperMix UDG

Probe qPCR kit with high sensitivity and high amplification efficiency

### Product Features

- › Three antibodies blocking technique, improves sensitivity, enhances specificity and amplification efficiency.
- › Specially optimized qPCR reaction buffer provides higher sensitivity and specificity.
- › dUTP/UDG used to avoid DNA carryover contamination and guarantee more accurate data.
- › Passive reference dyes are provided for different qPCR instruments to normalize well-to-well differences by pipetting errors or instrument limitations .
- › A wide range of applications, used for the detection of African swine fever virus, pseudorabies virus, Vibrio harveyi, Intestinal worm, and Vibrio parahaemolyticus.
- › Good stability which enables stable amplification when stored under repeated freezing and thawing, assembled reaction mix with primers and probes, room temperature, 37°C and other conditions.

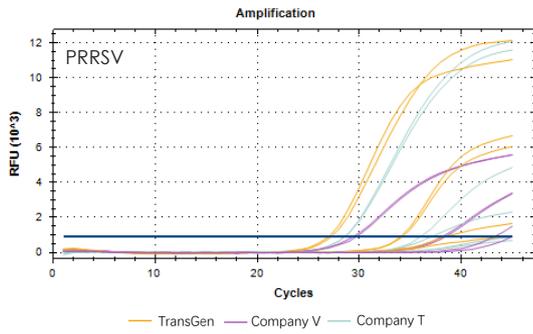
### Multiplex PCR Detection



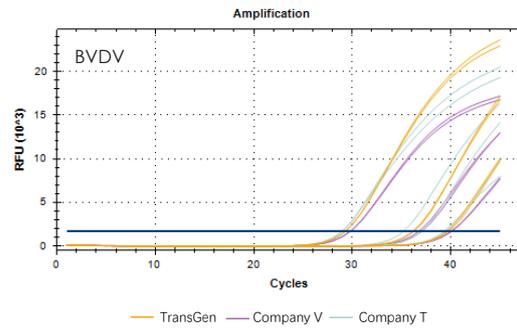
Using Bovine Viral Diarrhea Virus (BVDV) cDNA, Porcine Blue-ear Disease Virus (PRRSV) cDNA, African Swine Fever Virus (ASFV) plasmid, and Pseudorabies virus (PRV) gDNA mixture as templates for quantitative detection.

The results show that TransGen product can perform 4-plex detection.

## High Sensitivity and High Amplification Efficiency

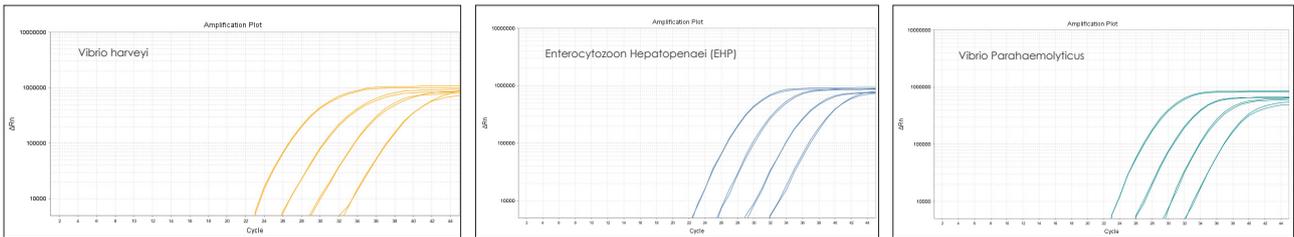


qPCR was performed targeting different concentrations of PRRSV cDNA (10 pg, 0.1 pg, 0.01 pg) as input template, using products of TransGen, Company V, and Company T. The results show that the sensitivity of TransGen product can reach 0.1 pg, and the amplification effect is better than that of Company V and Company T.



qPCR was performed targeting different concentrations of Bovine Viral Diarrhea Virus (BVDV) cDNA (100 pg, 1 pg, 0.1 pg) as input template, using products of TransGen, Company V, and Company T. The results show that the sensitivity of TransGen product can reach 0.1 pg, and the amplification effect is better than that of Company V and Company T.

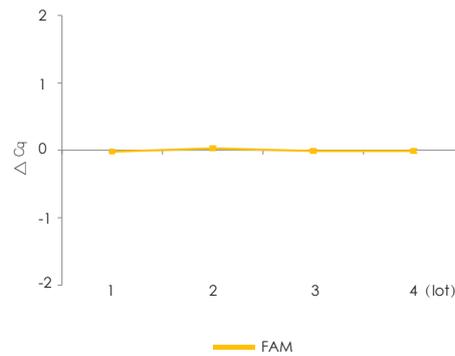
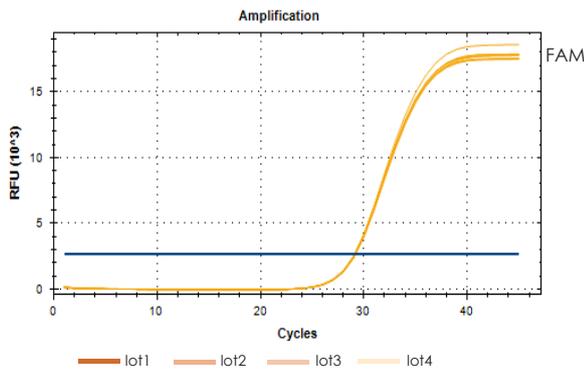
## Wide Range of Applications



TransGen product can successfully detect different concentrations (10<sup>7</sup> copies/ml-10<sup>4</sup> copies/ml, 10-fold dilution) of the DNA of Vibrio harveyi, Enterocytozoon Hepatopenaei (EHP) and Vibrio parahaemolyticus.

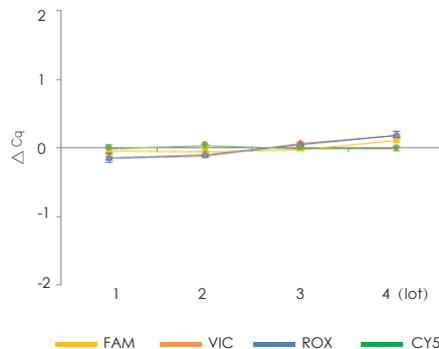
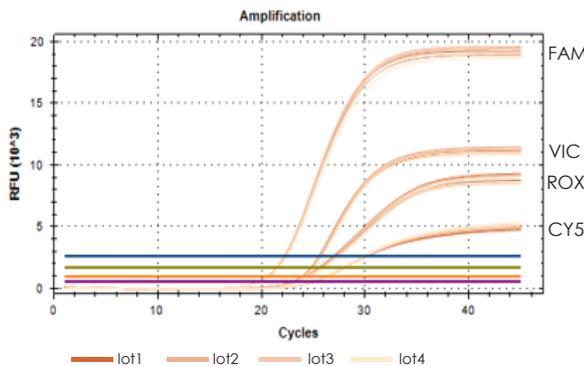
## Good Stability

### Lot-to-lot Stability (Singleplex)



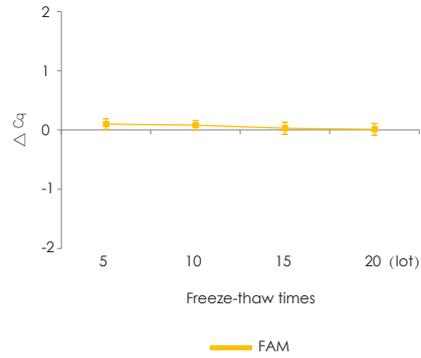
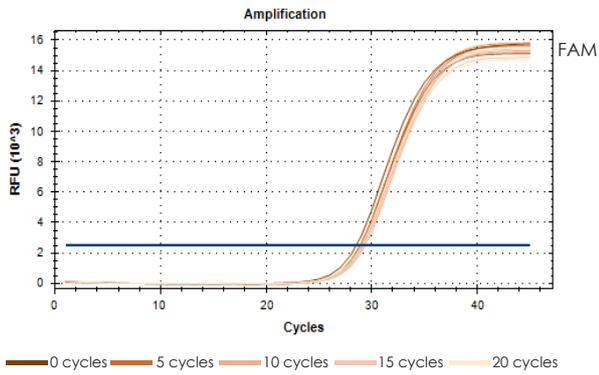
Singleplex qPCR was performed, using different lots of TransGen product. The results show that TransGen product can guarantee stable lot-to-lot repeatability.

### Lot Stability (Quadruple Multiplex)



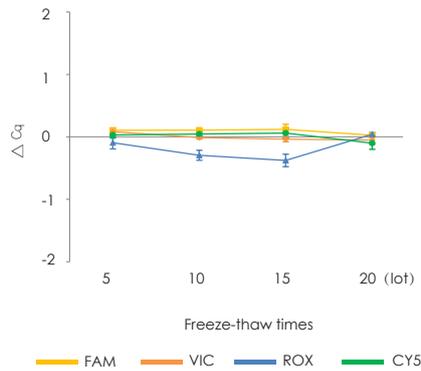
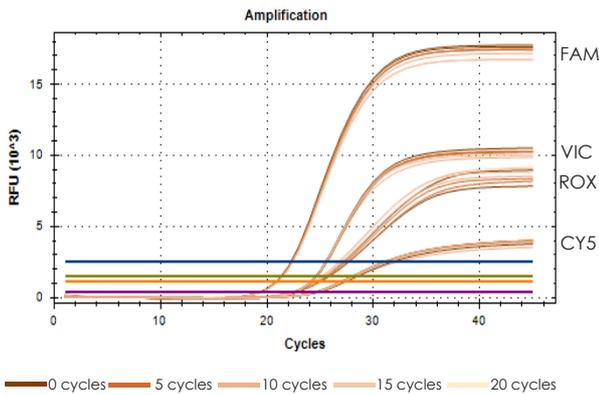
Quadruple multiplex qPCR was performed, using different lots of TransGen product. The results show that TransGen product can guarantee stable lot-to-lot repeatability.

### Freeze-thaw Stability (Singleplex)



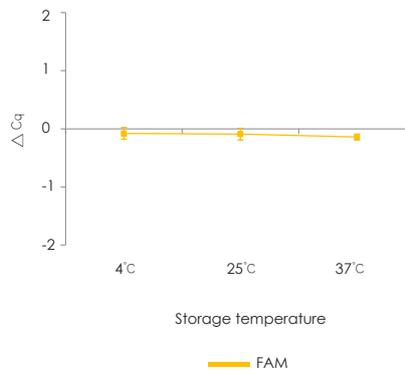
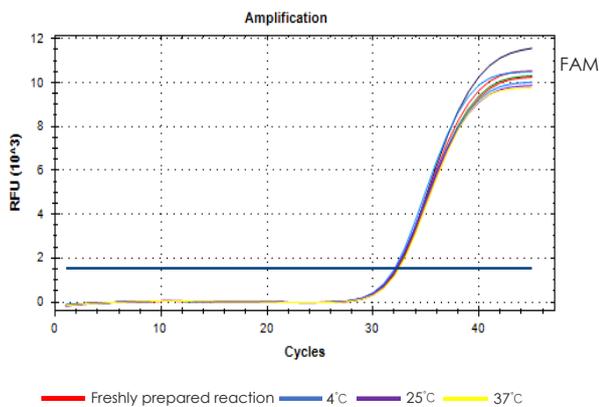
Singleplex qPCR was performed using TransGen product after 5, 10, 15 and 20 freeze-thaw cycles. The results show that the performance of TransGen product will not be affected after repeated freezing and thawing, and stable amplification can still be achieved.

### Freeze-thaw Stability (Quadruple Multiplex)



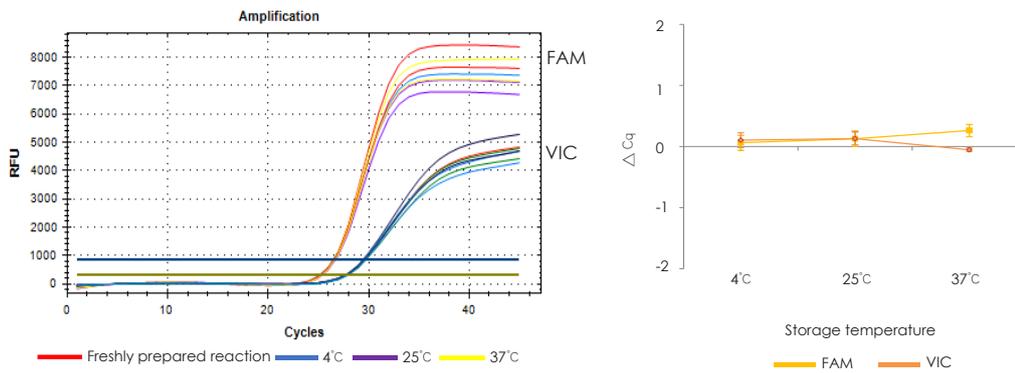
Quadruple multiplex qPCR was performed using TransGen product after 5, 10, 15 and 20 freeze-thaw cycles. The results show that the performance of TransGen product will not be affected after repeated freezing and thawing, and stable amplification can still be achieved.

### Assembled Reaction Mix Stability (Singleplex)



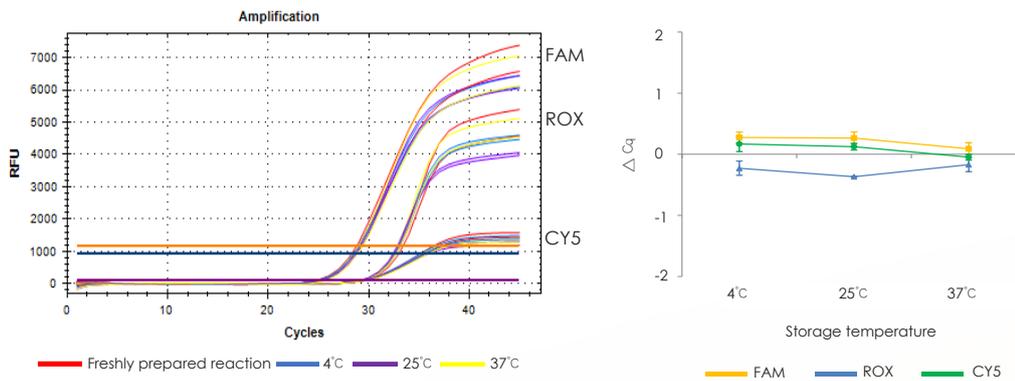
The primer and probes for a single detection gene were assembled with TransGen product, and qPCR detection was performed after 7 days of treatment at different temperatures. The results show that the TransGen assembled reaction mix can still be stably amplified after being stored at different temperatures.

## Assembled Reaction Mix Stability (Double Multiplex)



The primers and probes for double detection genes were assembled with TransGen product, and qPCR detection was performed after 7 days of treatment at different temperatures. The results show that the TransGen assembled reaction mix can still be stably amplified after being stored at different temperatures.

## Assembled Reaction Mix Stability (Triplex)



The primers and probes for triplex detection genes were assembled with TransGen product and qPCR detection was performed after 7 days of storage at different temperatures for 7 days. The results show that the TransGen assembled reaction mix can still be stably amplified after being stored at different temperatures.

Product Name	Cat. No.	Specification
PerfectStart® II Probe qPCR SuperMix UDG	AQ712-01	1 ml
	AQ712-02	5×1 ml
	AQ712-03	15×1 ml

### Reminder

If you have any questions, please contact us by customer service hot line +86-400-898-0321

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