

## TransScript<sup>®</sup> II Multiplex Probe One-Step qRT-PCR SuperMix UDG

One-step qRT-PCR Supermix with high sensitivity, synthesis efficiency and amplification efficiency.

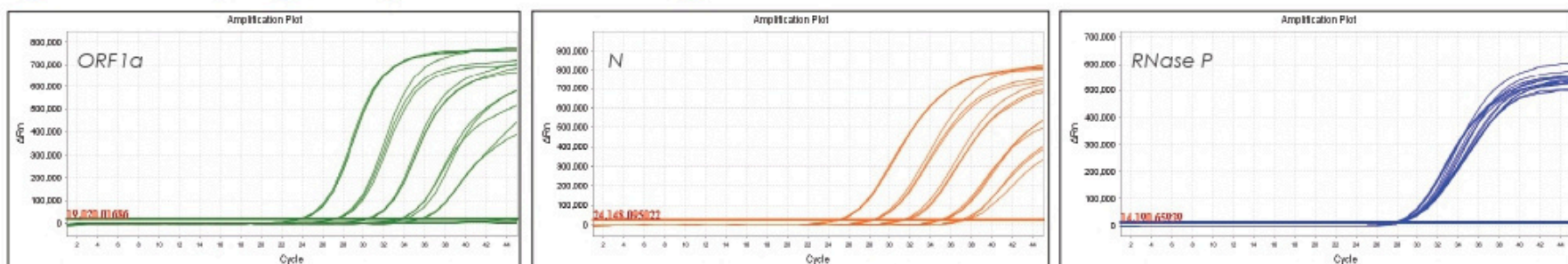
### Features

- › Use TransScript<sup>®</sup> II Multiplex Probe One-Step Enzyme Mix UDG and 2×PerfectStart<sup>®</sup> Multiplex Probe One-Step Reaction Mix to efficiently synthesize first-strand cDNA from RNA and perform qPCR. It is easy to operate, reducing the chance of contamination during operation.
- › UDG enzyme and dUTP are used to effectively prevent the DNA carryover contamination in PCR and ensure data accuracy.
- › High sensitivity, high specificity to ensure accurate data.
- › It has a wide range of applications and has been successfully used for the detection of SARS-CoV-2 Virus, Influenza Virus, Swine Fever Virus, Porcine Reproductive and Respiratory Syndrome Virus, Bovine Viral Diarrhea Virus, Shrimp Hemocyte Iridescent Virus, White Spot Syndrome Virus, Taura Virus, etc.

### Applications

- › Singleplex to 4-plex RT-qPCR detection.
- › High-copy and low-copy gene detection.
- › RNA templates with high GC content or complex secondary structure.
- › Detection of RNA virus or trace amounts of RNA.

### High Sensitivity, High Amplification Efficiency



Serial dilutions ( $5 \times 10^6$  copies/ml- $5 \times 10^2$  copies/ml, 10-fold dilution) of the SARS-CoV-2 Virus in vitro transcribed RNA standard and constant concentration of Hela cell total RNA mixture were prepared as templates, and ORF1a, N and RNase P genes (internal control gene) were amplified using TransGen product. The results show that TransGen products have high amplification efficiency and sensitivity.

The best for life science

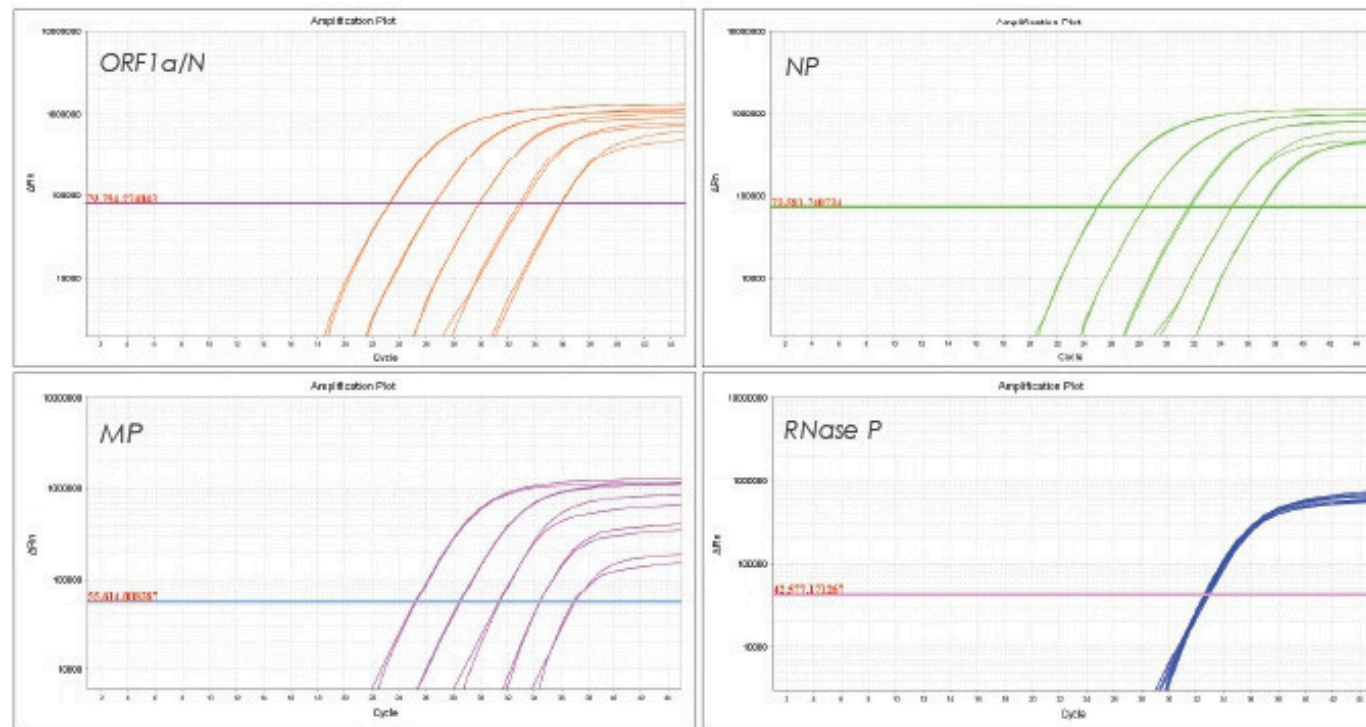
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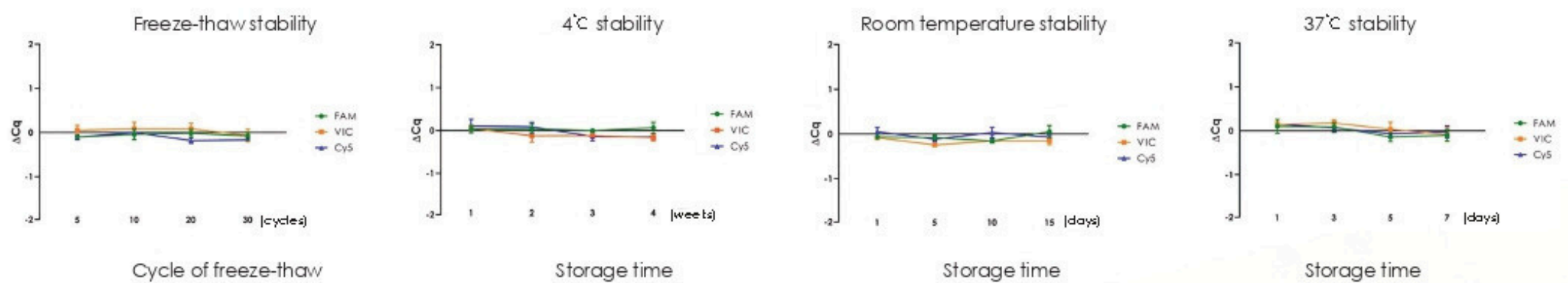


## Multiplex PCR Detection



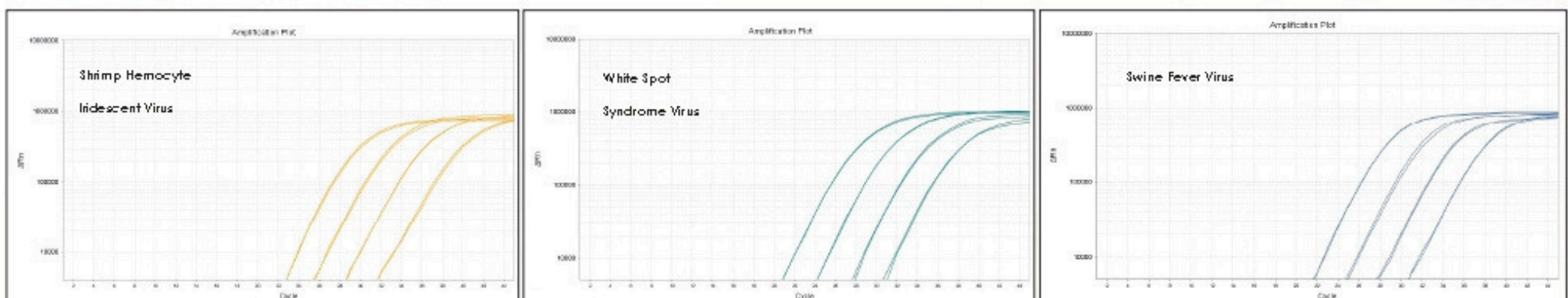
Serial dilutions ( $5 \times 10^6$  copies/ml- $5 \times 10^2$  copies/ml, 10-fold dilution) of SARS-CoV-2 Virus, influenza A virus, influenza B virus in vitro transcription of RNA and a constant concentration of human gDNA mixture were prepared as templates and *ORF1ab /N* gene (SARS-CoV-2 Virus), *MP* gene (influenza A virus), *NP* gene (influenza B virus) and *RNase P* gene (endogenous reference gene) were detected by qPCR. The results show that TransGen products can be used for 4-plex PCR detection with a sensitivity of  $5 \times 10^2$  copies/ml.

## Good Stability



After processing under different storage conditions, the performance of TransGen products will not be affected, and stable amplification is still possible

## Wide Range of Applications



TransGen products can successfully detect Shrimp Hemocyte Iridescent Virus plasmids, White Spot Syndrome Virus plasmids, and Swine Fever Virus plasmids at different concentrations ( $10^7$  copies/ml- $10^4$  copies/ml, 10-fold dilution).

Product Name	Cat. No.	Specification
TransScript® II Multiplex Probe One-Step qRT-PCR SuperMix UDG	AQ322-01	100 rxns×20 µl reaction
	AQ322-02	400 rxns×20 µl reaction

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