



# TOROBlue<sup>®</sup> RT Kit for qPCR-FD-

## Description

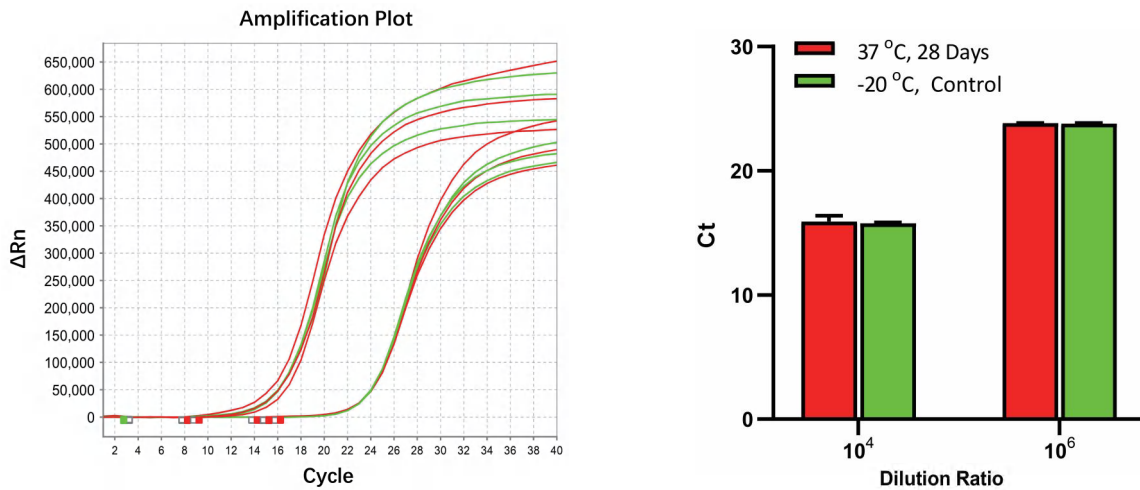
TOROBlue<sup>®</sup> RT Kit for qPCR-FD- is a room-temperature stable RT kit to perform for qPCR. The engineered reverse transcriptase in this kit allows the synthesis of high-quality first-strand cDNA. 2×RT buffer for qPCR is optimized for highly efficient synthesis of short-chain cDNAs suitable for qPCR. The protocol is simple, and the reaction can be completed in 10-25 min.

## Feature

- **Room-temperature stable**  
— The performance is not easily decrease during during storing and shipping.
- **Maximum flexibility**  
— Cutting each tube allows for 5 or10 RT reactions.
- **Easy-to-use**  
— Add 50μL 2×RT buffer into a single tube to prepare the RT premix easily.
- **High performance**  
— An engineered reverse transcriptase allows the synthesis of high-quality cDNA.

## Room-temperature stable

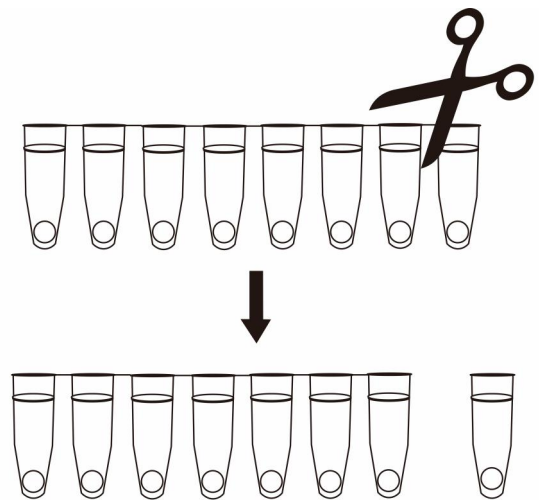
Extensive stability testing was performed on three 10×dilutes of the template. TOROBlue® RT Kit for qPCR-FD-(RTQ-108) were sealed and left at 37°C for 28 days, and all results calculated and collated. From the amplification plot (Fig. 1), it shows that the RTQ-108 stored at 37°C and at -20°C have the same curve, and the Ct value is basically similar. RTQ-108 has extremely high stability within a wide range of template concentration. Therefore, the performance is not easily decrease during storing and shipping.



**Figure 1. High stability.** RT-qPCR was performed using MS2 RNA. TOROBlue® RT Kit for qPCR-FD-(RTQ-108) stored at 37°C (red line) and at -20°C (green line) have the same curve, and the Ct value is basically similar.

## Maximum flexibility

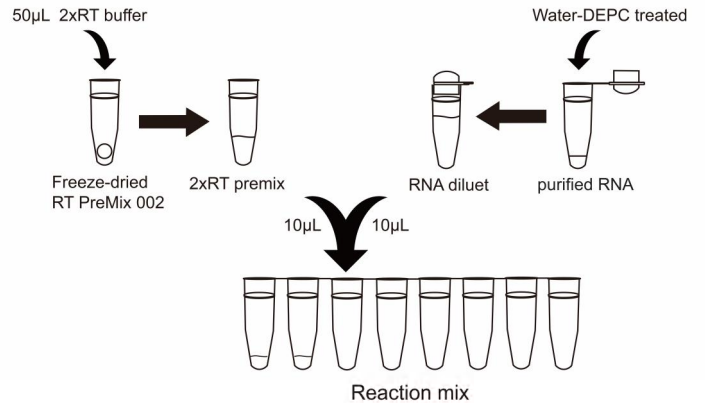
TOROBlue® RT Kit for qPCR-FD-(RTQ-108) is subpackaged in the form of PCR eight-tube strips, and the Freeze-dried RT PreMix-002 in each PCR tube can be used for 5-10 RT reactions. As is shown in figure 2, each PCR tube is sealed independently, and users can cut open the 8-strips tube according to the required quantity.



**Figure 2. Maximum flexibility.** Freeze-dried RT PreMix-002 in each PCR tube can be used for 5-10 RT reactions. Users can cut open the 8-strips tube according to the required quantity.

## Easy-to-use

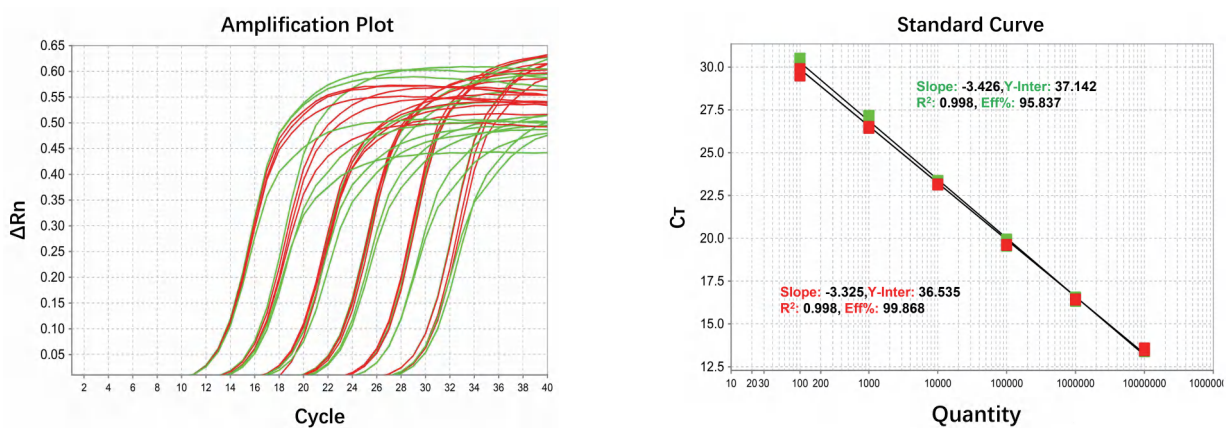
This kit is very easy to use, and the preparation of reaction mix only needs 3 steps. First, Add 50µL 2×RT buffer into a single tube to prepare the 2×RT premix; Secondly, the purified RNA template is diluted to the required concentration; Finally, add 10µL 2×RT premix and 10µL diluted RNA to a empty PCR tube.



**Figure 3. Easy-to-use.** TOROBlue® RT Kit for qPCR-FD-(RTQ-108) is very easy to use, and the preparation of reaction mix only needs 3 steps.

## High performance

TOROBlue® RT Kit for qPCR-FD-(RTQ-108) is able to accommodate a wide range of input RNA template without compromising RT efficiency. Amplification curves were obtained over a 6-log dilution series of MS2 RNA. The amplification plot and standard curve(Fig. 4) show that RTQ-108(red line) displaying superior dynamic range and efficiency(Eff%=99.868), while RT kit from Brand T(green line) resulted in greater inhibition at low copy of template.



**Figure 4. High performance of TOROBlue® RT Kit for qPCR over a broad dynamic range.** Amplification curves were obtained over a 6-log dilution series of MS2 RNA. The amplification plot and standard curve show that RTQ-108(red line) displaying superior dynamic range and efficiency (Eff%=99.868), while RT kit from Brand T(green line) resulted in greater inhibition at low copy of template.



## Ordering information

Catalog Number	Product Name	Unit Size
RTQ-108	TOROBlue® RT Kit for qPCR-FD-	120 reactions

## References

[1] Bustin SA, Benes V, Garson JA, etc,al. The MIQE guidelines: minimum information for publication of quantitative real-time PCR experiments. ClinChem.2009,55(4):611-22.

Find out more at [www.toroivd.com](http://www.toroivd.com)

For Research Use Only. Not for use in diagnostic procedures.

Head Office: Building #C1, 880 Jiang Yang Nan Road, Baoshan, Shanghai, China. 200439

Tel: +86-21-68030217 Website: [www.toroivd.com](http://www.toroivd.com)

JiangShu Factory: Building #20, 888 Zhujiang Road, Life and Health Industrial Park, Rudong, Jiangshu, China. 226400

Email: [market@toroivd.com](mailto:market@toroivd.com)