

HiFiScript gDNA Removal RT MasterMix

- High thermal stability
- High efficiency
- cDNA synthesis less than 20 minutes



Features

- **Fast gDNA Elimination:** 2 minutes remove genomic DNA.
- **Rapid Reverse Transcription:** 15 minutes synthesize cDNA.
- **Efficient and Convenient:** Stable RT-Mixture, effectively prohibit RNA degradation.
- **High sensitivity:** Pg-level total RNA or mRNA as template synthesizes cDNA.
- **High Production:** Novel enzyme system, higher yield of cDNA.

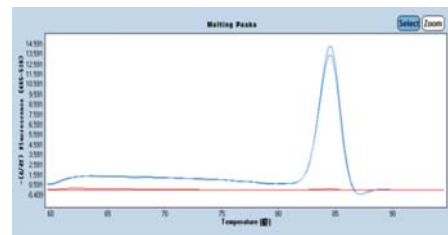
Simple and Rapid gDNA Elimination

HiFiScript gDNA Removal RT MasterMix only needs 2 minutes to remove DNA after adding gDNA Remover, which also includes gDNA Remover inhibitor and ready to be used to synthesize cDNA for reverse transcription reaction.

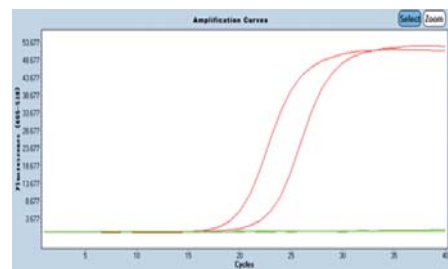
Example

Extracted human blood RNA as template, and CoWin's gDNA Remover was used to remove the genomic DNA, GAPDH as reference gene for qPCR detection.

The results showed that CoWin's gDNA Remover could completely remove genomic DNA contaminations in RNA samples.



Blue: Melting Curve of RNA Template without gDNA Remover(-)
Red: Melting Curve of RNA Template with gDNA Remover(+)



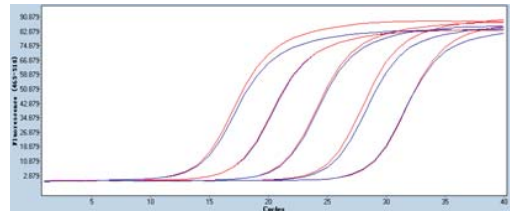
Green: Amplification Curve of RNA Template with gDNA Remover(+)
Red: Amplification Curve of RNA Template without gDNA Remover(-)

High reverse transcription efficiency

RT Mix was prepared by using HiFiScript, a novel high-efficiency reverse transcriptase, which greatly enhanced the transcriptional activity of the enzyme and could synthesize high-quality long fragments of DNA.

Example

Using human RNA as template, the first chain cDNA was synthesized by RT-Mix from different companies. PGK was detected in qPCR reactions with titrated cDNA.



Red: CoWin's HiFiScript gDNA Removal RT MasterMix
Blue: TakaRa's RT Mix

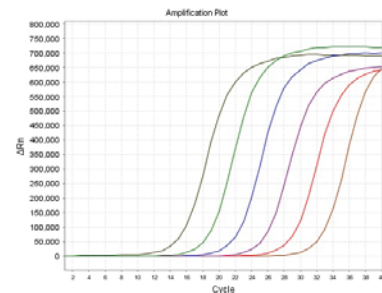
The results show that CoWin's HiFiScript gDNA Removal RT MasterMix has higher reverse transcription efficiency.

A wide range of templates

With novel mutated reverse transcriptase and optimized premixed oligo dT and random primer, our RT MasterMix can obtain a wider range of reverse transcription.

Example

The results showed that CoWin's HiFiScript gDNA Removal RT MasterMix could perform stable and efficient reverse transcription within the concentration range of 0.01-1000 ng/ul.



Take 1000 ng, 100 ng, 10 ng, 1 ng, 0.1 ng and 0.01 ng Mice liver RNA as template respectively, CoWin's HiFiScript gDNA Removal RT MasterMix was used to synthesize cDNA, and ACTB was used as target gene for qPCR detection.

Applications

This kit is suitable for the synthesis of first-strand cDNA and subsequent PCR, qPCR and construction of full-length cDNA libraries etc.

Ordering Information

Catalogue	Product	Size
CW2020S	HiFiScript gDNA Removal RT MasterMix	10 rxn
CW2020M		100 rxn