

RTScript™ cDNA Synthesis Kit

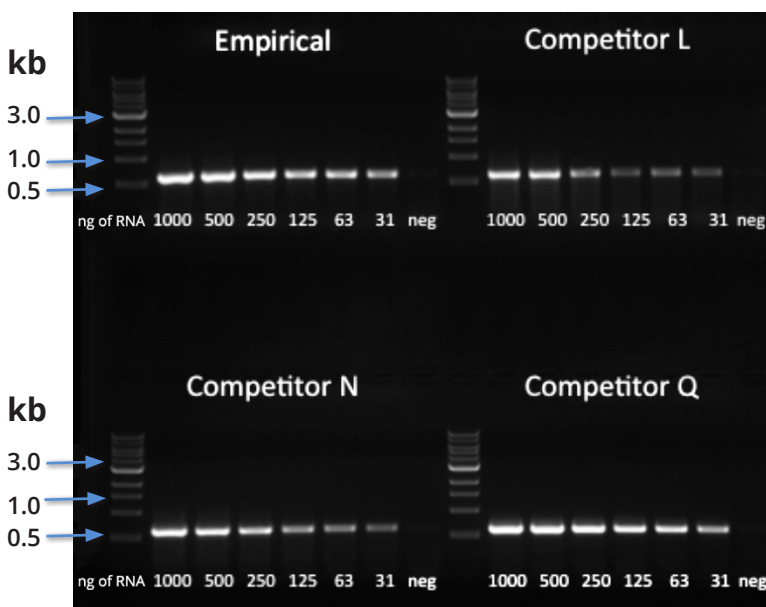
Enzymes and Reagents

PCR | qPCR | RT | Kits | Oligonucleotides

Performance

Empirical's RTScript™ cDNA Synthesis Kit is a modified version of M-MLV reverse transcriptase with RNase H activity deactivated and increased thermal stability. In combination with optimized buffers and reagents, Empirical's RT enzyme synthesizes complementary DNA from single-stranded RNA or DNA templates.

Empirical's RTScript™ is sensitive, specific and capable of synthesizing highly-structured and long cDNA fragments. Produced cDNA is appropriate for both PCR and qPCR analysis.



Empirical's RTScript™ cDNA Synthesis Kit is highly sensitive. RTScript™ was compared to the RT kits of leading competitors with decreasing human RNA template. Synthesized cDNA was amplified using a β -actin primer set.

Kit Components

- Reverse Transcriptase (200 units/ μ L)
- 5x RT buffer
- DTT solution
- DTT solution
- dNTP mix
- RNase inhibitor
- Oligo-dT(20) primer
- Random hexamers
- RNase-free water

Features

Robust Performance

- Higher cDNA yields than some leading competitors.

High Sensitivity

- Efficient synthesis of cDNA from low-abundance RNA transcripts.

Increased Specificity

- Deactivated RNase activity and increased thermal stability.

Versatile Performance

- Effective synthesis of cDNA from 100bp up to 10kb in length.

Item Number	Rxn
RT-CSK-100	100

Related Products

- Taq 2X Master Mix
- FlashTaq™ 2X Master Mix
- 5X Multiplex Master Mix
- Multiplex Master Mix with GC Enhancer
- Taq 2X MeanGreen™ Master Mix
- FlashTaq™ 2X MeanGreen™ Master Mix
- UltraPure dNTP Solution Mix, 10mM each
- UltraPure dNTP Solution Set, 100mM each
- EasyLoad™ Low-Range DNA Ladder
- EasyLoad™ Mid-Range DNA Ladder
- EasyLoad™ High-Range DNA Ladder
- 6X MeanGreen™ Loading Dye
- rEVALution™ 2X qPCR Master Mix

Empirical Bioscience Product Line

Taq DNA Polymerases

ITEM NO.	DESCRIPTION
TP-NB-100	Taq DNA Polymerase without Buffer, 100 Units
TP-NB-500	
TP-NB-1000	
TP-NM-100	Taq DNA Polymerase with 10X Reaction (no MgCl ₂) Buffer
TP-NM-500	
TP-NM-1000	
TP-MG-100	Taq DNA Polymerase with 10X Reaction (MgCl ₂) Buffer
TP-MG-500	
TP-MG-1000	

FlashTaq™ DNA Polymerases

ITEM NO.	DESCRIPTION
FT-NB-100	FlashTaq™ DNA Polymerase without Buffer
FT-NB-500	
FT-NB-1000	
FT-NM-100	FlashTaq™ DNA Polymerase with 10X Reaction (no MgCl ₂) Buffer
FT-NM-500	
FT-NM-1000	
FT-MG-100	FlashTaq™ DNA Polymerase with 10X Reaction (MgCl ₂) Buffer
FT-MG-500	
FT-MG-1000	

Integrity DNA Polymerases™

ITEM NO.	DESCRIPTION
HF-RB-MG-100	Integrity High-Fidelity DNA Polymerase™ with 10X Reaction Buffer
HF-RB-MG-200	
HF-RB-MG-500	
HF-RB-MG-1000	

PFU-50 High Fidelity Polymerase

ITEM NO.	DESCRIPTION
PFU-50-100	PFU-50 High Fidelity Polymerase (50X Taq) with Reaction Buffer
PFU-50-200	
PFU-50-500	
PFU-50-1000	
PFU-50-5000	

dNTP Solutions

ITEM NO.	DESCRIPTION
dNTP-1mL	UltraPure Deoxynucleotide Solution Mix, 10mM
dNTP-100-S0.2mL	UltraPure Deoxynucleotide Solution Set, 100mM
dNTP-100-S1mL	
dNTP-100-S5mL	

Taq Master Mixes

ITEM NO.	DESCRIPTION
TP-MM-100	Taq 2X Master Mix
TP-MM-250	
TP-MM-500	
TP-MM-1000	
TP-MM-2500	
TP-MMWD-100	Taq 2X MeanGreen™ Master Mix
TP-MMWD-250	
TP-MMWD-500	
TP-MMWD-1000	
TP-MMWD-2500	
TP-MP-100	5X Multiplex Master Mix
TP-MP-500	
TP-MP-1000	
TP-MP-GCE-100	Multiplex Master Mix with GC Enhancer
TP-MP-GCE-500	

FlashTaq™ Master Mixes

ITEM NO.	DESCRIPTION
FT-MM-100	FlashTaq™ 2X Master Mix
FT-MM-250	
FT-MM-500	
FT-MM-1000	FlashTaq™ 2X MeanGreen™ Master Mix
FT-MMWD-100	
FT-MMWD-250	
FT-MMWD-500	
FT-MMWD-1000	

EasyLoadDNA Ladders™

ITEM NO.	DESCRIPTION
LA-EL-LR-100	EasyLoad™ Low-Range DNA Ladder, 100 Lanes
LA-EL-MR-100	EasyLoad™ Mid-Range DNA Ladder, 100 Lanes
LA-EL-HR-100	EasyLoad™ High-Range DNA Ladder, 100 Lanes

AlloyTaq Blends™

ITEM NO.	DESCRIPTION
AT-HF-RB-100	AlloyTaq™ High-Fidelity Blend with 10X Reaction Buffer
AT-HF-RB-200	
AT-HF-RB-500	
AT-HF-RB-1000	

GC Enhancers

ITEM NO.	DESCRIPTION
GCE-10-100	10X GC Enhancer
GCE-10-500	

MeanGreen™ Buffer

ITEM NO.	DESCRIPTION
RB-WD-20mL	5X MeanGreen™ Buffer (20 x 1mL)

MeanGreen™ Loading Dye

ITEM NO.	DESCRIPTION
LD-MG-4mL	6X MeanGreen™ Loading Dye

rEVALution™ qPCR Mixes

ITEM NO.	DESCRIPTION
RQ-100	rEVALution 2X™ qPCR Master Mix with separate ROX®
RQ-500	
RQ-1000	
RQ-2500	

2x qPCR Probe Master Mix™

ITEM NO.	DESCRIPTION
QP-MM-100	2x qPCR Probe Master Mix with separate ROX®
QP-MM-500	
QP-MM-1000	
QP-MM-2500	

RTScript™

ITEM NO.	DESCRIPTION
RT-CSK-100	Reverse Transcriptase cDNA Synthesis Kit

Kits

ITEM NO.	DESCRIPTION
PMK-50	Plasmid Mini-Prep Kit
PMK-250	
PPK-50	PCR Purification Kit
PPK-250	
AGEK-50	Agarose Gel Extraction Kit
AGEK-250	

Oligonucleotides

ITEM NO.	DESCRIPTION
RTG-PR	Ready to Go™ Primers