ActiTemp-50 RTScript™ Reverse Transcriptase
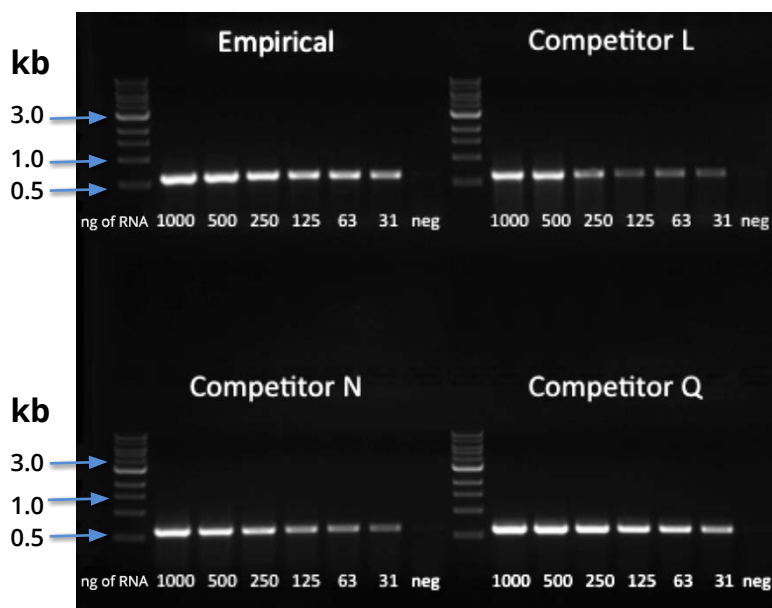
Enzymes and Reagents

PCR | qPCR | RT | Kits | Oligonucleotides

Performance

Empirical's ActiTemp-50 RTScript™ Reverse Transcriptase 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 Enzyme 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.

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	Reactions
WS-RT-RXN-200	200
WS-RT-RXN-400	400
WS-RT-RXN-1000	1000

Supplied With:
• ActiTemp-50 RTScript™ Reverse Transcriptase 20X
• 5X RT Reaction Buffer

Related Products:
• Taq DNA Polymerase
• FlashTaq™ HotStart DNA Polymerase
• Integrity High-Fidelity™ 5X DNA Polymerase
• Phu-50 High-Fidelity™ Polymerase
• DNA Polymerase Master Mixes
• UltraPure dNTP Solution Mix, 10mM each
• UltraPure dNTP Solution Set, 100mM each
• EasyLoad™ DNA Ladders
• 6X MeanGreen™ Loading Dye
• GC Enhancer