**RTScript cDNA Transcription Enzyme**

**Enzymes and Reagents**

| PCR | qPCR | RT | Kits | Oligonucleotides |

**Performance**

Empirical’s RTScript™ cDNA 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.

**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.

**Supplied With:**

- Reverse Transcriptase (200/ uL)
- 5X RT Reaction Buffer

**Related Products:**

- Taq DNA Polymerase
- FlashTAQ™ HotStart DNA Polymerase
- Integrity High Fidelity 5X DNA Polymerase
- PFU 50 High Fidelity 50X DNA 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

**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.

**Item Number | Units**

| RT-ENZ-20K | 20,000 units |
| RT-ENZ-40K | 40,000 units |
| RT-ENZ-100K | 100,000 units |

*TO ORDER, REQUEST SAMPLES OR FOR MORE INFORMATION, CONTACT:*

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