Creative Enzymes
Diagnostic Enzymes

Reverse Transcriptase II

Product Information

Cat#	DIA-465
Description	An engineered M-MuLV reverse transcriptase with reduced RNase H activity and enhanced thermal stability. Compared to wild-type M-MuLV, it can synthesize first-strand cDNA at higher temperatures. Active even at 48 °C, it offers higher specificity, greater yield, and can generate cDNA up to 12 kb.
Storage	–20 °C
Applications	First-strand full-length cDNA synthesis; the resulting cDNA can be used for PCR, real-time PCR, second-strand cDNA synthesis, and more.
Product Overview	**Product Components:** 4000 U: Reverse Transcriptase II (200,000 U/mL): 20 µL 5x First-Strand Buffer: 500 µL 100 mM DTT (10x): 200 µL 10000 U: Reverse Transcriptase II (200,000 U/mL): 50 µL 5x First-Strand Buffer: 500 µL 100 mM DTT (10x): 200 µL 200000 U: Reverse Transcriptase II (200,000 U/mL): 1 mL 5x First-Strand Buffer: 10 mL 100 mM DTT (10x): 1.25 mL x 2 **Product Features:** Low RNase H activity enables cDNA synthesis up to 12 kb High activity at 48 °C, ideal for RNA templates with complex secondary structures Produces higher specific cDNA yield compared with first-generation RT enzymes (37 °C)
Package	4000/10000/200000 U

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