

Reverse Transcriptase III

Product Information

Cat#	DIA-466
Description	An engineered M-MuLV reverse transcriptase with reduced RNase H activity and improved thermal stability. Compared to wild-type M-MuLV, it can synthesize first-strand cDNA at elevated temperatures. Retains activity at 50–55 °C, providing higher specificity, higher yield, and cDNA synthesis 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 III (200,000 U/mL): 20 µL 5x First-Strand Buffer: 500 µL 100 mM DTT (10x): 200 µL 10000 U: Reverse Transcriptase III (200,000 U/mL): 50 µL 5x First-Strand Buffer: 500 µL 100 mM DTT (10x): 200 µL Product Features: Low RNase H activity enables long cDNA synthesis up to 12 kb Retains high activity at 50–55 °C, ideal for reverse transcription of RNA templates with complex secondary structures Produces higher specific cDNA yields compared with second-generation RT enzymes (42 °C) Suitable for SARS-CoV-2 detection
Package	4000/10000 U