

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

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