

TruScript Reverse Transcriptase Kits

NORGEN
BIOTEK  CORP.



All-in-One, Ready-to-use
First Strand cDNA Synthesis Kits

Features

- ✓ **High Sensitivity and Yield** – the optimized Master Mix allows for highly sensitive amplifications with high yields of PCR products.
- ✓ **Robust Enzyme** – broad range of working temperatures from 37°C to 60°C. Capable of amplifying difficult templates with a high degree of reproducibility.
- ✓ **Convenient Kits Available** – the user needs only to add template to the master mix and enzyme.
- ✓ **Time Savings** – Set up RT reactions in a shorter time since less pipetting steps are required.
- ✓ **Cost Efficient Kits** – No need to buy separate enzymes, dNTPs and buffers.
- ✓ **Flexible** – TruScript Reverse Transcriptase Enzyme and Reaction Buffer also available separately

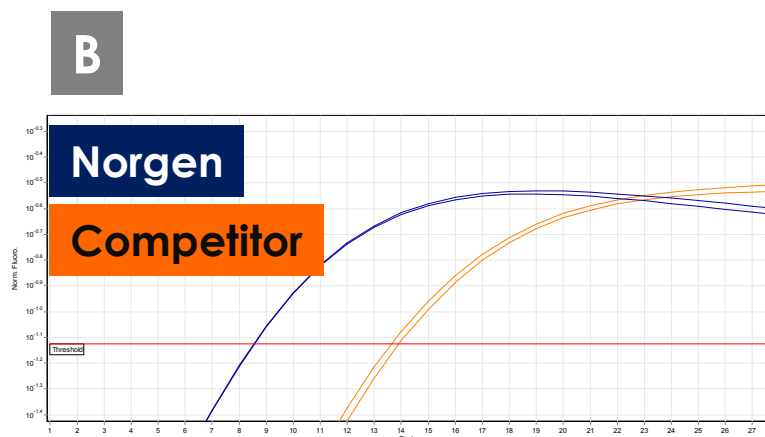
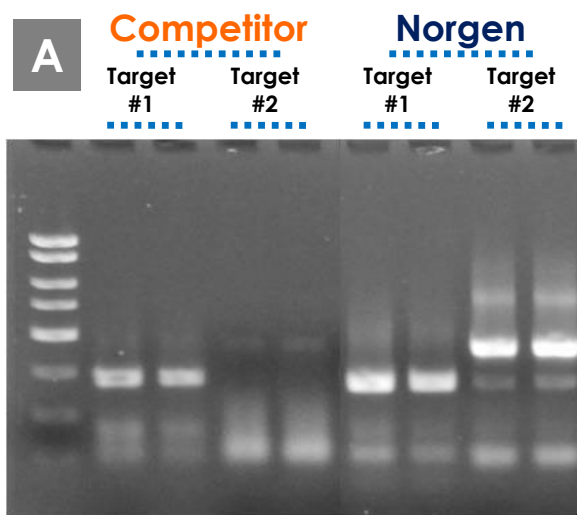


Figure 1. Robust Reverse Transcription of All RNA Transcripts. Norgen's TruScript Reverse Transcriptase is a mutant version of Moloney Murine Leukemia Virus (M-MuLV) Reverse Transcriptase that could produce cDNA from different kinds of RNA transcripts, including those with high difficulty or high degree of secondary structure. **Panel A** showed that the TruScript Reverse Transcriptase was compared with a competitor's M-MuLV Reverse Transcriptase for RT-PCR of two different RNA transcripts. Norgen's TruScript showed good amplification for both targets while the competitor failed to amplify Target #2 with good quantity. **Panel B** showed that the TruScript Reverse Transcriptase was compared with a competitor's M-MuLV Reverse Transcriptase in an RT-qPCR reaction. Norgen's TruScript Reverse Transcriptase provided better amplification as shown with a lower Ct value.

Ordering Information

Kit	Cat. #
TruScript Reverse Transcriptase Kit (10,000 units)	54440
TruScript First Strand cDNA Synthesis Kit (50 reactions)	54420
TruScript First Strand cDNA Synthesis Kit for mRNA (50 reactions)	54400

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ISO 13485:2003, ISO 9001:2008, ISO 15189:2007 Registered

TruScript Reverse Transcriptase Kits

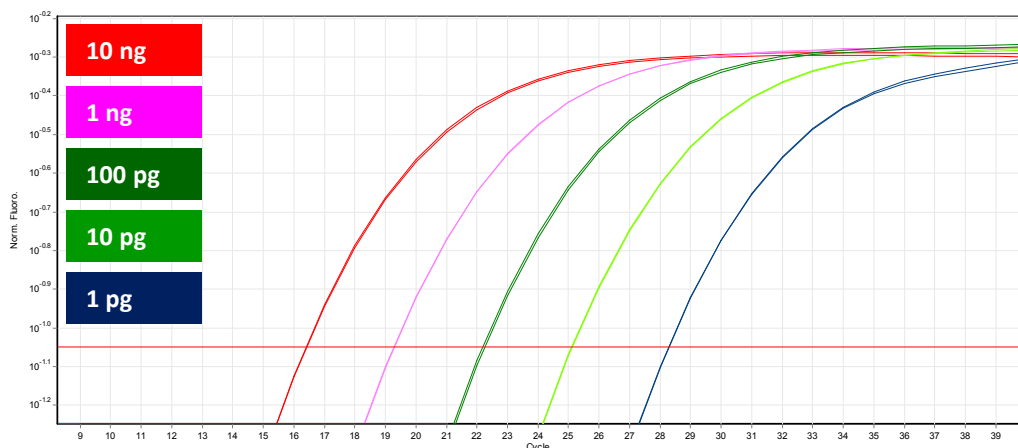


Figure 2. High Sensitivity with Robust Amplification from Different Amounts of RNA Input.

Norgen's TruScript Reverse Transcriptase was used in an RT-qPCR reaction to amplify the human 5S rRNA transcripts from a dilution series of HeLa total RNA isolated using Norgen's Total RNA Purification Kit. The PCR target was robustly amplified from a broad range of RNA inputs, from 10 ng down to 1 pg.

Which TruScript Kit is Best for Your Needs?

	TruScript Reverse Transcriptase	TruScript First Strand cDNA Synthesis Kit for mRNA	TruScript First Strand cDNA Synthesis Kit
Kit contains only reverse transcriptase enzyme and buffer (no primers or other buffer components)	✓		
Your template is enriched mRNA		✓	
Your template is total RNA (poly A OR non-poly A-containing transcripts)	✓		✓
Kit contains oligo dT		✓	
Kit contains both oligo-dT primer and Random Hexamers			✓
Kit contains reaction buffer with nucleotides and primer		✓ With oligo-dT	✓ With oligo-dT and random hexamers
You have your own first strand synthesis primer	✓		
Your template is microRNA (using your own primers)	✓		
	Cat.#54440	Cat.#54400	Cat.#54420

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