

# High Quality PCR Reagents



Your Best Source for  
 Innovative Purification Kits &  
 Laboratory Reagents

## AT NORGEN BIOTEK, WE OFFER:



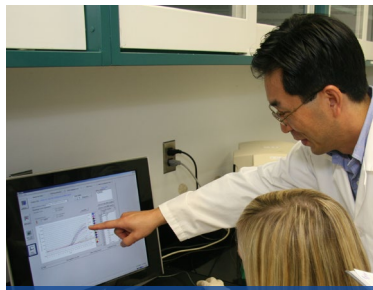
**RESEARCH AND  
 DEVELOPMENT**

At Norgen Biotek, we research, develop and manufacture all our products. We are not a distributor.



**YOUR BEST  
 SOURCE**

We are the best source for all of your sample preparation, reagent and biochemical needs.



**PERSONALIZED  
 SUPPORT**

Our customers receive personalized support directly from product developers.



**THE SAMPLE  
 PREP EXPERTS**

We are Norgen Biotek—  
 The Sample Preparation  
 Experts

[www.norgenbiotek.com](http://www.norgenbiotek.com)

North American Toll-Free: 1-866-667-4362

Phone: 905-227-8848 Fax: 905-227-1061

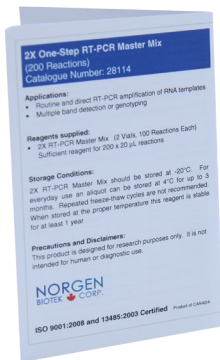
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ISO 13485:2003, ISO 9001:2008, ISO 15189:2012 Registered

# PCR Master Mixes

**NORGEN**  
BIOTEK  CORP.



**A Complete Range of Master Mixes  
to Meet Every PCR Need**

## Features

- ✓ Ready-to-use 2X concentrate solutions
- ✓ Just add primers, template and water
- ✓ Reduces chances of contamination
- ✓ Save time
- ✓ Optimized for robust and consistent amplification
- ✓ Also available in a dual dye format

### 2X PCR Master Mix

Norgen's **2X PCR Master Mix** is a ready-to-use solution that contains components required for PCR amplification including Taq DNA polymerase, dNTPs, reaction buffer, MgCl<sub>2</sub>, KCl and a PCR enhancer/stabilizer. The user needs only to add template, the primer set and water to the 2X Master Mix to set up the PCR reaction. The **2X PCR Master Mix** is also available as a dual dye mix with Orange G and Cresol Red.

### 2X One-Step RT-PCR Master Mix

Norgen's **2X One-Step RT-PCR Master Mix** is a ready-to-use solution that contains components required for RT-PCR amplification of RNA templates. The mix includes M-MuLV reverse transcriptase, Taq DNA polymerase, dNTPs, reaction buffer, MgCl<sub>2</sub>, KCl, and a PCR enhancer/stabilizer. The user needs only to add template, the primer set and water to the Master Mix to set up the RT-PCR reaction. The **2X One-Step RT-PCR Master Mix** is also available as a dual dye with Orange G and Cresol Red.

## Ordering Information

Description	Size	Cat. #
<b>2X PCR Master Mix</b>	100 reactions (20 µL vol)	28007
	200 reactions (20 µL vol)	28008
	500 reactions (20 µL vol)	28009
<b>2X PCR Master Mix with Dual Dye</b>	100 reactions (20 µL vol)	28240
	200 reactions (20 µL vol)	28271
	500 reactions (20 µL vol)	28272
<b>2X One-Step RT-PCR Master Mix</b>	100 reactions (20 µL vol)	28113
	200 reactions (20 µL vol)	28114
	500 reactions (20 µL vol)	28115
<b>2X One-Step RT-PCR Master Mix with Dual Dye</b>	100 reactions (20 µL vol)	28242
	200 reactions (20 µL vol)	28273
	500 reactions (20 µL vol)	28274
<b>Nuclease-Free Water</b>	4 x 1.25 mL	28001
	100 x 1.25 mL	28002

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# Taq DNA Polymerase

**NORGEN**  
BIOTEK  **CORP.**



## Features

- ✓ These optimized Taq DNA Polymerases allow for robust amplification of DNA templates with high yields of PCR products.
- ✓ Our Taq source is an *E. coli* strain with a cloned Taq DNA Polymerase gene from *Thermus aquaticus* YT-1.
- ✓ Available in 3 different formats.

Norgen's Taq Polymerase packs are available in 3 different customized formats to meet a wide range of PCR needs.

## Ordering Information

Description	Size	Cat. #
Taq DNA Polymerase (with 10X Taq Reaction Buffer)	200 units (1 U/ $\mu$ L) 1000 units (5 U/ $\mu$ L)	28094 28088
Taq DNA Polymerase (with 10X Taq Reaction Buffer Plus)	200 units (1 U/ $\mu$ L) 1000 units (5 U/ $\mu$ L)	28095 28089
Taq DNA Polymerase (10X Taq Reaction Buffer Mg-Free and 25 mM MgCl <sub>2</sub> )	200 units (1 U/ $\mu$ L) 1000 units (5 U/ $\mu$ L)	28093 28087

## Related Products

Description	Size, Concentration	Cat. #
Taq Diluent	4 x 1 mL	28107
dNTP Set (100 mM each nucleotide, four separate solutions)	4 x 0.25 mL each of dATP, dCTP, dGTP and dTTP. 25 $\mu$ mol total of each nucleotide	28104
dNTP Mix (25 mM each nucleotide).	1 mL, 100 $\mu$ mol total	28105
dNTP Mix (10 mM each nucleotide).	1 mL, 40 $\mu$ mol total	28106

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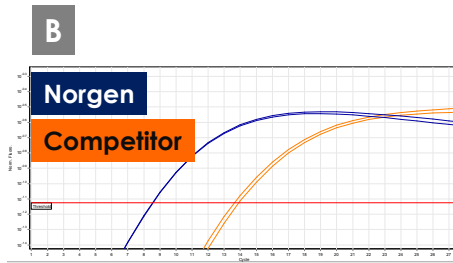
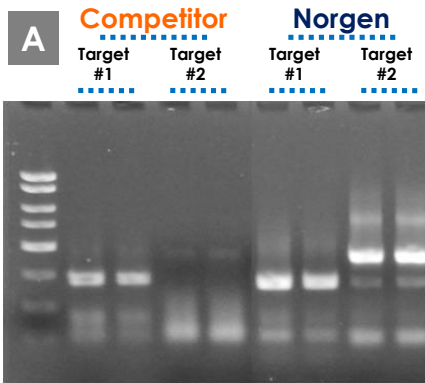
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# TruScript Reverse Transcriptase and Kits



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

- ✓ High Sensitivity and Yield
- ✓ Robust Enzyme
- ✓ Convenient Kits Available
- ✓ Time Savings
- ✓ Cost Efficient Kits
- ✓ Flexible



**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 can produce cDNA from different kinds of RNA transcripts, including those with high difficulty or a high degree of secondary structure. In Panel A, 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. In Panel B, TruScript Reverse Transcriptase was compared with a competitor's M-MuLV Reverse Transcriptase in an RT-qPCR reaction. Norgen's TruScript Reverse Transcriptase provided a 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

## DNA LADDERS



**Discover our Excellent Range of High Quality  
DNA Ladders to Meet Every Electrophoresis Need!**

- ✓ Ready-to-Use
- ✓ Quantitative
- ✓ Over 11 Ladders to choose from
- ✓ Precise and Highly Stable

## Ordering Information

Description	Size	Cat. #
PCR Sizer 100 bp DNA Ladder	100 loads	11400
FastRunner DNA Ladder	100 loads	12800
HighRanger 1kb DNA Ladder	100 loads	11900

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