

Choose exceptional sensitivity,  
specificity, and yield

Invitrogen™

PCR enzymes and reagents



# Choose a PCR enzyme that fits your application

Invitrogen™ PCR enzymes and reagents offer the quality, consistency, and performance you need

Simply choose the format that best suits your application, then pick from the accompanying menu the product that is best for your research.

## Standard PCR

For everyday PCR amplification.

- AmpliTaq® DNA Polymerase—reliable and cost-effective
- Taq DNA polymerase—widely used for routine amplification

## Hot-start PCR

Reduce nonspecific amplification and help prevent mispriming during reaction setup.

- AmpliTaq Gold® DNA Polymerase—a chemically modified polymerase that is stable at room temperature, making it ideal for many high throughput applications
- Platinum® Taq DNA Polymerase—an antibody-mediated polymerase with fast activation and minimal template degradation

## High-fidelity/high-specificity PCR

Obtain sequence accuracy with proofreading capability to help ensure the highest fidelity.

- AccuPrime™ Pfx DNA Polymerase—hot-start polymerase with high fidelity (26x higher than Taq polymerase) and enhanced specificity
- Platinum® Taq DNA Polymerase, High Fidelity—high fidelity and robust performance for long templates
- Platinum® Pfx DNA Polymerase—hot-start polymerase with 26x higher fidelity than Taq polymerase

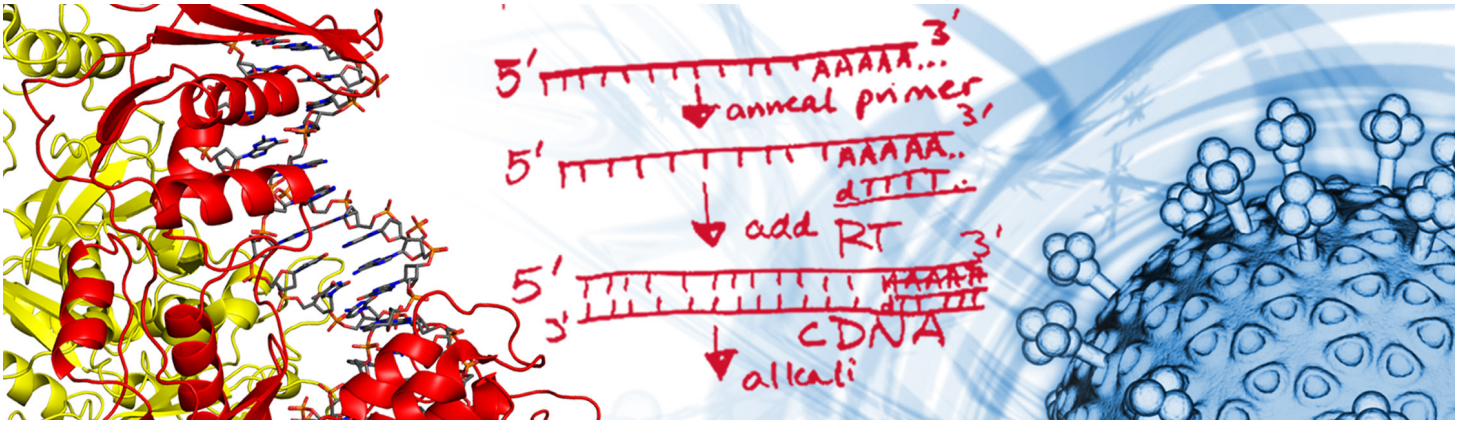
## PCR master mixes

Set up PCR experiments quickly and easily with convenient and flexible mixes: just add template, primer, and start the reaction.

- AmpliTaq Gold® 360 Master Mix—amplifies a full range of even the most challenging targets
- Platinum® PCR SuperMix—enables the extension of longer amplicons with fewer nonspecific (e.g., primer-dimer) products
- AccuPrime™ Pfx SuperMix—formulated for high fidelity, with automatic hot start for enhanced specificity

Along with these products, we also have enzyme choices for more specialized applications, such as fast PCR, long PCR, multiplexing, and GC-rich PCR. Find out more at [lifetechnologies.com/pcrenzymes](https://www.lifetechnologies.com/pcrenzymes)

# Choose which reverse transcriptase (RT) best fits your needs



## cDNA synthesis kits for real-time PCR

These kits offer superior linearity and reliable performance across a broad range of RNA input.

- SuperScript® VILO™ Master Mix—our best kit for linearity and convenience in a single-tube master mix format
- High-Capacity cDNA Reverse Transcription Kit—a cost-effective and flexible format for routine cDNA synthesis experiments

## cDNA synthesis kit for endpoint PCR

This kit offers reduced gene bias with a higher yield of full-length cDNA for downstream endpoint PCR applications.

- SuperScript® III First-Strand Synthesis System for RT-PCR—contains all the necessary components to allow full optimization of your RT reactions

## Stand-alone reverse transcriptases

We offer a wide range of stand-alone reverse transcriptases to reliably and efficiently deliver high yields of full-length cDNA.

- SuperScript® III Reverse Transcriptase—the first-choice reverse transcriptase for cDNA synthesis, with reduced RNase H activity and high thermostability (half-life of 220 min at 50°C)
- SuperScript® II Reverse Transcriptase—the most cited reverse transcriptase, with reduced RNase H activity and a reaction temperature of 42°C
- M-MuLV Reverse Transcriptase—a robust reverse transcriptase for a variety of templates with standard reaction temperatures (i.e., 37–45°C)

## One-step RT-PCR system

This system offers the ability to achieve sensitive and reproducible endpoint detection and analysis of RNA with first-strand cDNA synthesis and PCR reaction in a convenient one-step formulation.

- SuperScript® III One-Step RT-PCR System with Platinum® Taq DNA Polymerase—utilizes SuperScript® III Reverse Transcriptase for more specific priming plus an automatic hot start in PCR for increased sensitivity, specificity, and yield

Find out more about all of our RT products at [lifetechnologies.com/reverse-transcription](https://www.lifetechnologies.com/reverse-transcription)

# Additional PCR products

We offer a complete menu of products that have been designed and optimized to deliver consistent and reliable results for any application, including quantitation, genotyping, and sequence analysis.



## Thermal cyclers

Our engineers have been designing and manufacturing high-quality Applied Biosystems® thermal cyclers since 1987. These instruments are renowned for their reliability, precision, and user-friendly interfaces. For a complete list of our thermal cycler product line, go to [lifetechnologies.com/thermalcyclers](http://lifetechnologies.com/thermalcyclers)

## dNTPs

All of our dNTPs are available in ready-to-use concentrations and packaged either individually, in a set, or blended into a dNTP mix for convenience and flexibility. Order today at [lifetechnologies.com/dntp](http://lifetechnologies.com/dntp)

Find out more at [lifetechnologies.com](http://lifetechnologies.com)



## PCR plastic consumables

MicroAmp® plastics are optimized to provide superior temperature accuracy and uniformity for fast, efficient PCR amplification. Find out more about all of our plastic consumables at [lifetechnologies.com/plastics](http://lifetechnologies.com/plastics)

## E-Gel® precast agarose gels and imaging

A complete bufferless system for the analysis of your PCR fragments. For more information, go to [lifetechnologies.com/egels](http://lifetechnologies.com/egels)



## Need additional assistance?

Technical support specialists are available by phone and online to assist you in choosing the right product for your needs. For product and order support, go to [fishersci.com/life](http://fishersci.com/life)



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For customer service, call 1-800-766-7000  
To fax an order, use 1-800-926-1166  
To order online: [www.fishersci.com](http://www.fishersci.com)

### In Canada:

For customer service, call 1-800-234-7437  
To fax an order, use 1-800-463-2996  
To order online: [www.fishersci.ca](http://www.fishersci.ca)



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