



# SURELY BETTER PCR REAGENTS AND INSTRUMENTATION FOR ACCURACY, RELIABILITY, AND SPEED

PCR  
Catalog

The Measure of Confidence



Agilent Technologies

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## Smart Amplification Starts with the Right Tools

Agilent Technologies – building upon Stratagene’s legacy of excellence – provides a wide range of high-fidelity, specialty and routine enzymes built to meet virtually every amplification need.

Agilent’s PCR portfolio solution goes beyond the products, offering you an experienced technical support team for help in designing assays, optimizing protocols, and troubleshooting programs.

# Surely Better PCR



## The ArchaeMaxx Polymerase-Enhancing Factor

ArchaeMaxx overcomes the stalling of proofreading enzymes when dUTP is present within the template or PCR reaction.

- Exclusively found in Agilent's high-fidelity DNA polymerases
- Functions as a dUTPase, converting poisonous dUTP into harmless dUMP
- Increases PCR yield and polymerase length capability



## The Importance of High-Fidelity

High-fidelity PCR enzymes are valuable for minimizing the introduction of amplification generated errors in products utilized in downstream processes.

- Ideal for cloning, sequencing, and expression studies
- Reduces the number of clones that must be sequenced
- Obtains higher frequencies of error free constructs and accurate consensus sequences



## Fusion Technology

The processivity of Agilent's premium enzymes are dramatically increased by fusing the DNA polymerase with a high-affinity double-stranded DNA binding domain.

- Shorter extension times through faster nucleotide incorporation
- Serves to better anchor the DNA polymerase
- Prevents early dissociation from the DNA template



## Hot Start Formulation

Hot start formulation provides higher specificity, reduced background and enhanced yield.



## Master Mix Format

Master mix format provides added convenience and allows high-throughput setup.

# Polymerase Selection Guide

PCR Enzyme	Page	Fidelity	Speed	Yield	Target Length (genomic DNA)	Sensitivity	
<b>PfuUltra II Fusion HotStart DNA Polymerase</b> <i>Engineered to be the highest fidelity and fastest polymerase available</i>	6	1 error/2.5 million bp	15 sec/kb		0-19 kb		
	<b>Herculase II Fusion DNA Polymerase</b> <i>High-fidelity polymerase for difficult targets. Provides superior yields over a broad range of targets. Economical enough for routine use</i>	8	1 error/770,000 bp	15 sec/kb		"0-12kb 12-23 kb (optimized)"	
		<b>PfuUltra High-Fidelity DNA Polymerase AD</b> <i>Engineered for high-fidelity</i>	13	1 error/2.25 million bp	1 min/kb		19 kb (optimized)
	<b>PfuTurbo DNA Polymerase AD</b> <i>First high-fidelity polymerase to include the ArchaeMaxx Polymerase-Enhancing factor</i>	13	1 error/770,000 bp	1 min/kb		19 kb (optimized)	
	<b>Herculase Enhanced DNA Polymerase</b> <i>Designed for difficult targets</i>	13	1 error/375,000 bp	1 min/kb		12 kb	
	<b>Cloned Pfu DNA Polymerase AD</b> <i>Cloned to ensure ultrapure manufacturing of Pfu</i>	13	1 error/770,000 bp	2 min/kb		"1 kb 5 kb (optimized)"	
<b>Native Pfu DNA Polymerase</b> <i>Stratagene introduced the first thermophilic proofreading polymerase</i>	13	1 error/770,000 bp	2 min/kb		(up to 1 kb)		
	<b>PfuTurbo Cx HotStart DNA Polymerase</b> <i>The only high-fidelity polymerase that can read through dUTP in the template and extending strand</i>	10	1 error/770,000 bp	1 min/kb		0-10 kb	
		<b>PicoMaxx High-Fidelity PCR System</b> <i>Most sensitive polymerase offered</i>	11	2x Taq	1 min/kb		0-10 kb
<b>Easy-A High-Fidelity PCR Cloning Enzyme</b> <i>Proofreading DNA polymerase that adds 3'A overhangs to PCR amplicons</i>	11	1 error/770,000 bp	1 min/kb		0-6 kb		
	<b>Paq5000 DNA Polymerase</b> <i>Fast and economical alternative to Taq</i>	12	1 error/770,000 bp	30 sec/kb		0-6 kb	
		<b>Taq2000 DNA Polymerase</b> <i>Ultrapure cloned Taq that eliminates unwanted background artifacts</i>	13	1 error/770,000 bp	1 min/kb		"1 kb 4 kb (optimized)"
<b>Taq DNA Polymerase</b> <i>First thermophilic PCR enzyme.</i>	—	1 error/770,000 bp	1 min/kb		"1 kb 4 kb (optimized)"		

High-Fidelity & Difficult/GC Rich PCR

Specialty Enzymes

Routine Enzymes

# Polymerase Selection Guide

Blunt or 3'-A Ends	 ArchaeMaxx Advantage	Enzyme Only		 HotStart		 Master Mix	PCR Enzyme
		100 U 1000 U	500 U 5000 U	100 U 1000 U	500 U 5000 U	100 rxn 400 rxn	
Blunt				(40 rxn) 600670 (400 rxn) 600674	(200 rxn) 600672 —	600850 600852	<b>PfuUltra II Fusion HotStart DNA Polymerase</b> <i>Engineered to be the highest fidelity and fastest polymerase available</i>
Blunt		40 rxn) 600675 (400 rxn) 600679	(200 rxn) 600677 —				<b>Herculase II Fusion DNA Polymerase</b> <i>High-fidelity polymerase for difficult targets. Provides superior yields over a broad range of targets. Economical enough for routine use</i>
Blunt		600385 600389	600387 —	600390 600394	600392 —	600630 600632	<b>PfuUltra High-Fidelity DNA Polymerase AD</b> <i>Engineered for high-fidelity</i>
Blunt		600255 600259	600257 —	600320 600324	600322 —		<b>PfuTurbo DNA Polymerase AD</b> <i>First high-fidelity polymerase to include the ArchaeMaxx Polymerase-Enhancing factor</i>
Mixed		600260 600264	600262 600266	600310 600314	600312 —		<b>Herculase Enhanced DNA Polymerase</b> <i>Designed for difficult targets</i>
Blunt		600353 600357	600355 —				<b>Cloned Pfu DNA Polymerase AD</b> <i>Cloned to ensure ultrapure manufacturing of Pfu</i>
Blunt		600135 600140	600136 —				<b>Native Pfu DNA Polymerase</b> <i>Stratagene introduced the first thermophilic proofreading polymerase</i>
Blunt	Alternative uracil resistance (Pfu mutation)			600410 600414	600412 —		<b>PfuTurbo Cx HotStart DNA Polymerase</b> <i>The only high-fidelity polymerase that can read through dUTP in the template and extending strand</i>
Mixed				600420 600424	600422 —	600650 —	<b>PicoMaxx High-Fidelity PCR System</b> <i>Most sensitive polymerase offered</i>
3'-A				600400 600404	600402 —	600640 600642	<b>Easy-A High-Fidelity PCR Cloning Enzyme</b> <i>Proofreading DNA polymerase that adds 3'A overhangs to PCR amplicons</i>
Mixed		— 600682	600680 600684	— 600862	600860 600864	600870 600872	<b>Paq5000 DNA Polymerase</b> <i>Fast and economical alternative to Taq</i>
3'-A		600195 600197	600196 600198	600280 600284	600282 —		<b>Taq2000 DNA Polymerase</b> <i>Ultrapure cloned Taq that eliminates unwanted background artifacts</i>
3'-A							<b>Taq DNA Polymerase</b> <i>First thermophilic PCR enzyme.</i>

High-Fidelity & Difficult/GC Rich PCR

Specialty Enzymes

Routine Enzymes

# SureCycler 8800

*Surely better PCR functionality for your lab*



Learn More at:  
[www.agilent.com/genomics/8800](http://www.agilent.com/genomics/8800)

## Ordering Info

Base Unit  
Cat No: G8800A

96-Well Module  
Cat No: G8810A

384-Well Module  
Cat No: G8820A



Easy  
Interchangeable  
Module

## Gradient & Uniformity

- 12 temperature zone gradient functionality without sacrificing uniformity
- Excellent gradient functionality opens the door to accelerated protocol development and unique applications

## Speed & Volume

- Highest speed & volumes: 6° C/sec & 10-100 µL
- Competitor instruments often force a choice between high speed OR high volume, but the SureCycler gives you BOTH!

## 96 & 384 Well Flexibility

- The flexibility you have been looking for with modular 96 and 384 well blocks on the same system
- Quickly convert interchangeable modules based on needs

## Modern & Intuitive Interface

- 7" LCD touch screen with intuitive easy-to-use software
- PCR wizard allows for easy protocol creation in 5 steps

## Stand Alone Features

- Remotely start, stop, program and monitor experiments from any web enabled device
- Pre-loaded protocols for Agilent's most popular enzymes

*One easy decision to a complete*  
*portfolio of PCR solutions*



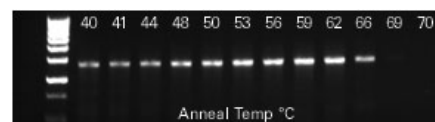


## SureCycler 8800

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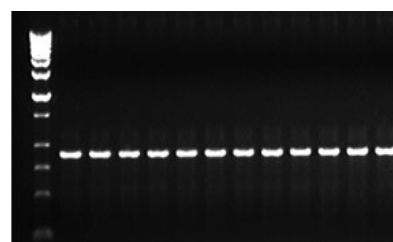
### SureCycler 8800

	Specifications	
<b>Configuration</b>	96-well block	384-well block
<b>Maximum Block Ramp Rate</b>	6° C/sec	4° C/sec
<b>Block Temperature Range</b>	4-99° C	
<b>Temperature Accuracy</b>	±0.2° C (@95° C)	
<b>Temperature Uniformity</b>	±0.4° C (@95° C)	
<b>Gradient</b>	Yes	
<b>Gradient Temperature Range</b>	30-90° C	
<b>Maximum Gradient</b>	30° C	
<b>Volume Capacity</b>	10-100 µL	5-25 µL
<b>Memory Capacity</b>	10,000 protocols	
<b>Pre-loaded Protocols</b>	Yes	
<b>PCR Wizard</b>	Yes	
<b>Display Size</b>	7 in	
<b>Display Resolution</b>	800 x 480	
<b>Display Type</b>	Full Touch LCD	
<b>Ports</b>	2 x USB 2.0	
<b>Dimensions (cm)</b>	41 L x 28 W x 27 (38 open) H	
<b>Weight</b>	12.4 kg	
<b>Standard Warranty</b>	2 years	



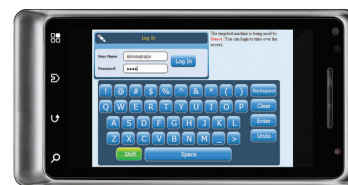
#### Gradient

Gradient enables single run optimization of your protocol



#### Uniformity

Market leading uniformity gives superior results every time you run your protocol



#### Remote Access

\*May not work with some devices

helpful **tip**

#### Maximum efficiency

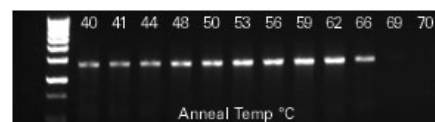
Combine Agilent's market leading enzyme speed and SureCycler performance for maximum efficiency.

## SureCycler 8800

Continued

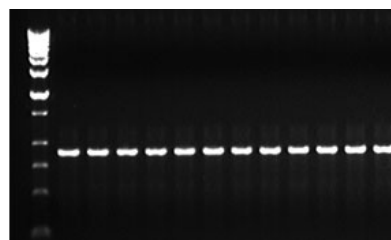
### SureCycler 8800

	Specifications	
<b>Configuration</b>	96-well block	384-well block
<b>Maximum Block Ramp Rate</b>	6° C/sec	4° C/sec
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<b>Gradient</b>	Yes	
<b>Gradient Temperature Range</b>	30-90° C	
<b>Maximum Gradient</b>	30° C	
<b>Volume Capacity</b>	10-100 µL	5-25 µL
<b>Memory Capacity</b>	10,000 protocols	
<b>Pre-loaded Protocols</b>	Yes	
<b>PCR Wizard</b>	Yes	
<b>Display Size</b>	7 in	
<b>Display Resolution</b>	800 x 480	
<b>Display Type</b>	Full Touch LCD	
<b>Ports</b>	2 x USB 2.0	
<b>Dimensions (cm)</b>	41 L x 28 W x 27 (38 open) H	
<b>Weight</b>	12.4 kg	
<b>Standard Warranty</b>	2 years	



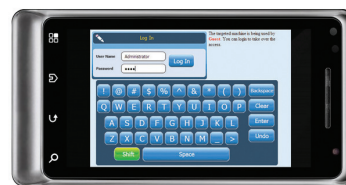
#### Gradient

Gradient enables single run optimization of your protocol



#### Uniformity

Market leading uniformity gives superior results every time you run your protocol



#### Remote Access

\*May not work with some devices

helpful **tip**

#### Maximum efficiency

Combine Agilent's market leading enzyme speed and SureCycler performance for maximum efficiency.



# PfuUltra II Fusion HotStart DNA Polymerase

Extreme accuracy – 1 error/2.5 million bp



When accuracy is critical for your downstream applications, such as cloning, protein crystallization studies, and sequencing, *PfuUltra II* is the industry standard for high-fidelity PCR. *PfuUltra II* features a genetically engineered mutant of *Pfu* DNA polymerase, the ArchaeMaxx Polymerase-Enhancing Factor, fusion technology, and hot start formulation.

## Ordering Info

Size: 40 rxn  
Cat No: 600670

Size: 200 rxn  
Cat No: 600672

Size: 400 rxn  
Cat No: 600674

Master Mix  
available  
see page 3

Learn More at:  
[www.agilent.com/  
genomics/pfultra2](http://www.agilent.com/genomics/pfultra2)

- **Highest fidelity**  
for the most reliable, error-free PCR
- **70-80% quicker**  
time to results
- **Accurately Amplifies**  
targets up to 19 kb gDNA
- **Average error rate 3x lower**  
than *PfuTurbo* & 20x lower than *Taq*
- **Less than 0.5% errors**  
in full length 500 bp PCR products



## *PfuUltra II Fusion HotStart DNA Polymerase*

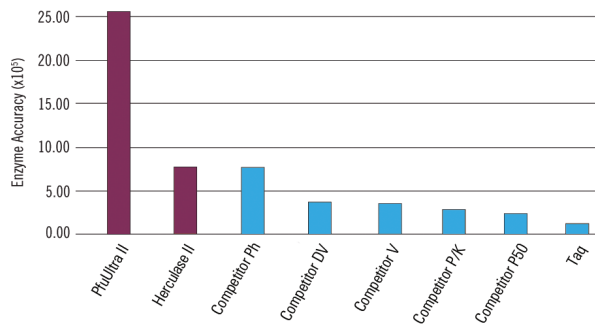
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### High Specificity Hot Start Formulation

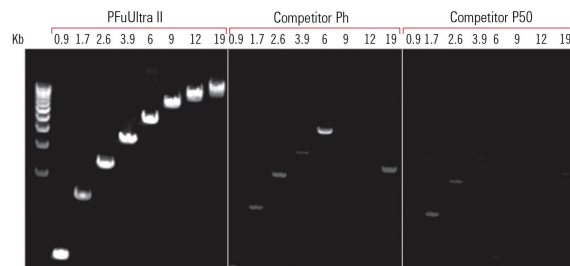
*PfuUltra II* is formulated with hot start antibodies that neutralize both polymerase and exonuclease activities during reaction setup, thereby enhancing specificity and enabling automated workflows.

### Convenient Master Mix Format

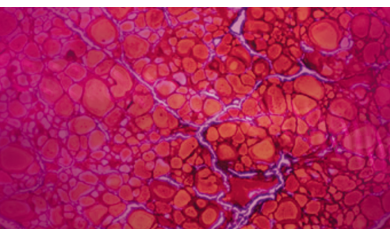
High-throughput PCR reaction set up with *PfuUltra II* HotStart PCR Master Mix tolerates room temperature assembly up to 24 hours prior to thermal cycling without any impact on performance.



Fidelity measured using Agilent's validated and reference fidelity assay. (Accuracy = 1/error rate)



*PfuUltra II* amplifies genomic targets up to 19 kb in length under faster cycling conditions – 15 sec/kb (most fusion enzymes are limited to 6 kb target amplification).



# Herculase II Fusion DNA Polymerase

*Superior yield with extension rates of 15 sec/kb*



## Ordering Info

Size: 40 rxn  
Cat No: 600675

Size: 200 rxn  
Cat No: 600677

Size: 400 rxn  
Cat No: 600679

Learn More at:  
[www.agilent.com/genomics/herculase2](http://www.agilent.com/genomics/herculase2)

Herculase II, with its special formulation and exclusive ArchaeMaxx Polymerase-Enhancing Factor, addresses your need for robust yields with all sample types. For mid-length (1.7 kb) or long (6 kb) DNA fragments, Herculase II produces as much as 10x greater yield with an extension rate as fast as 15 sec/kb.

- **Superior yield** for routine PCR applications & difficult/GC-rich targets
- **Fast cycling time** with 15 sec/kb extension rate
- **Accurately amplifies** targets up to 23 kb gDNA
- **Preserves *Pfu* fidelity** 1 error/770,000 bp
- **High sensitivity** for amplification of low amounts of DNA



## Herculase II Fusion DNA Polymerase

Continued

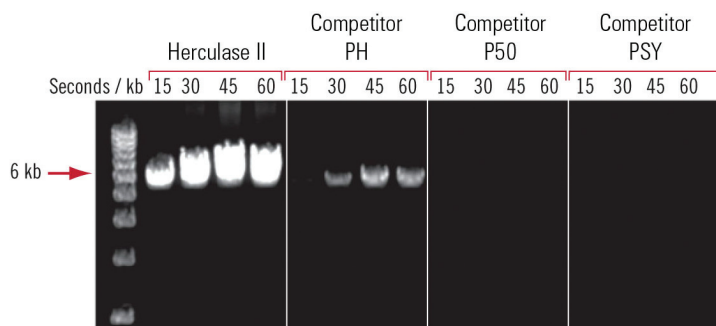
### Robust Performance on Difficult and GC-Rich Targets

Amplification of templates with high GC-content often leads to the formation of secondary structures, such as hairpins, causing the DNA polymerases to stall and results in incomplete and non-specific amplification.

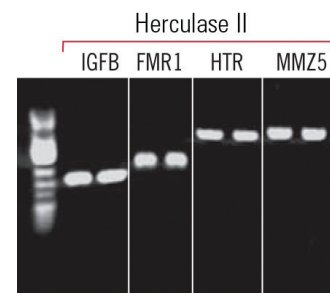
Herculase II helps you overcome challenging PCR with the combination of exclusive enzyme improvement additives and an optimized buffer system, allowing you to easily amplify targets with GC-content as high as 84%.

### High Sensitivity with Low Target Abundance

Herculase II amplifies DNA fragments over a wide range of template lengths with great sensitivity, enabling you to detect limited amounts of DNA. Herculase II successfully amplifies 3.9 kb fragments of the Ha1AT gene from as little as 1 ng template DNA.



Herculase II produced superior yields of a 6 kb fragment in amplifications employing human genomic DNA at extension rates of 15, 30, 45, and 60 sec/kb.



Herculase II easily amplified GC-rich fragments from human genomic DNA: IGFB (79% GC); FMR1 (84% GC); HTR (65% GC); MMZ5 (68% GC).

helpful **tip**

Have you tried  
"Perfect Match"?

Enhance your enzymes  
to further increase  
specificity and yield  
See page 13

# PfuTurbo Cx HotStart DNA Polymerase

Overcome uracil stalling



## Ordering Info

Size: 100 U  
Cat No: 600410

Size: 500 U  
Cat No: 600412

Size: 1000 U  
Cat No: 600414

Learn More at:  
[www.agilent.com/genomics/pfuturboCx](http://www.agilent.com/genomics/pfuturboCx)

*PfuTurbo Cx* is formulated with a novel mutant of *Pfu* DNA polymerase that completely overcomes uracil stalling without sacrificing fidelity. *PfuTurbo Cx* reads through dUTP located in both the template strand and extending strand.

- **World's only high-fidelity polymerase that efficiently reads through dUTP**
- **Great for bi-sulfite sequencing, UNG decontamination protocols & DNA methylation studies**
- **Amplifies templates 5-10 kb or with high GC-content**
- **DMSO provided separately to assist in optimizing PCR conditions**

## PfuTurbo Cx Maintains Fidelity

Thermostable DNA Polymerase	Error Rate	% of mutated 1 kb PCR products
<i>PfuTurbo Cx</i> HotStart DNA Polymerase	$1.3 \times 10^{-6}$	2.6
<i>PfuTurbo</i> DNA Polymerase	$1.3 \times 10^{-6}$	2.6
<i>Taq</i> DNA Polymerase	$8.0 \times 10^{-6}$	16



## Easy-A High-Fidelity PCR Cloning Enzyme

*One-step high-fidelity TA/UA PCR cloning*

Easy-A is the only proofreading DNA polymerase that delivers you PCR products ready for high-throughput TA/UA cloning with greater than 95% cloning efficiency.



- Preferentially adds a single 3'-A overhang
- Combines accuracy of *Pfu* with TA/UA cloning efficiency of *Taq*
- Accuracy level 6x greater than *Taq*

### Clones with Errors

PCR Product Length	Easy-A PCR Cloning Enzyme	Taq DNA Polymerase
300 bp	0.65%	4.0%
500 bp	1.3%	8.0%
900 bp	2.6%	14.4%
1500 bp	4.0%	24.0%
4000 bp	10.0%	64.0%

### Ordering Info

Size: 100 U  
Cat No: 600400

Size: 500 U  
Cat No: 600402

Size: 1000 U  
Cat No: 600404

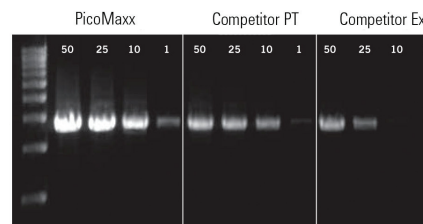
## PicoMaxx High-Fidelity PCR System

*Low copy number target amplification in complex samples*

PicoMaxx possesses the sensitivity to detect low copy number targets and the robustness to withstand the effects of PCR inhibitors without the need for extensive purification and subsequent DNA loss.



- Robust amplification of targets up to 10 kb gDNA
- High-specificity hot start increases enzyme sensitivity



Amplification of a 3.9 kb  $\alpha$ -1 anti-trypsin at various starting gDNA template qty (ng).

### Ordering Info

Size: 100 U  
Cat No: 600420

Size: 500 U  
Cat No: 600422

Size: 1000 U  
Cat No: 600424



# Paq5000 DNA Polymerase

*Economical hot start DNA polymerase*



Paq5000 is capable of quickly and robustly amplifying DNA targets up to 6 kb gDNA. With a shortened extension rate of 30 sec/kb, compared to 1 min/kb for *Taq* DNA polymerase, Paq5000 minimizes the overall cycle time.

## Ordering Info

Size: 500 U  
Cat No: 600680

Size: 1000 U  
Cat No: 600682

Size: 5000 U  
Cat No: 600684

HotStart and  
Master Mix  
available  
see page 3

Learn More at:  
[www.agilent.com/genomics/paq5000](http://www.agilent.com/genomics/paq5000)

- Easily replaces *Taq* in standard PCR protocols with minimal optimization
- Comes with preoptimized reaction buffers
- Low cost hot start formulation



Amplification of 0.9, 1.7 & 2.6 kb fragments of human  $\alpha$ -1 antitrypsin gene, and a 6 kb fragment of human  $\beta$ -globin gene.

## Other PCR Enzymes

### *PfuUltra* High-Fidelity DNA Polymerase



- Low error rate (1 error/2.25 million bp) without the speed and robustness of *PfuUltra* II

### Herculase Enhanced DNA Polymerase



- Amplifies challenging PCR targets without the speed and robustness of Herculase II

### *PfuTurbo* DNA Polymerase



- Low error rate (1 error/770,000 bp)

### *Pfu* DNA Polymerase, Native & Cloned



- Proofreading with 3' → 5' exonuclease activity
- Cloned version eliminates smearing and unwanted background artifacts

### *Taq2000* & SureStart *Taq* DNA Polymerase



- Eliminates amplification of background artifacts and minimizes smearing in long PCR
- SureStart (hot start version of *Taq2000*) increases specificity and sensitivity

## PCR Enhancers

### Perfect Match PCR Enhancer

- Reduces PCR artifacts by increasing specificity
- Destabilizes mismatched primer-template complexes

### *Taq* Extender PCR Additive

- Improves length, yield and reliability of PCR with *Taq* DNA polymerase
- Enhances the efficiency of template extension by *Taq* DNA polymerase

## AccuScript High-Fidelity RT

*Highest reverse transcription accuracy*

### Ordering Info

Size: 50 rxn  
Cat No: 600089

Size: 200 rxn  
Cat No: 600090

AccuScript reduces errors during cDNA synthesis with 3.7x more accuracy than other commercially available RTs and 6.6x more accuracy than AMV RT.

- **MMLV-RT derivative**  
combined with proofreading 3'-5' exonuclease reduces errors
- **High yields**  
of full length cDNA up to 20 kb

## AccuScript *PfuUltra* II RT-PCR Kit

*Complete system for high-fidelity RT-PCR*

### Ordering Info

Size: 50 rxn  
Cat No: 600184

The AccuScript *PfuUltra* II RT-PCR Kit provides a complete system for RT-PCR in applications that demand high-fidelity, specificity, and throughput.

- **Amplifies cDNA targets**  
of 0.1-9.6 kb in length
- **Synthesizes cDNA from**  
10-1000 ng of total RNA or 0.1-10 ng of poly(A)+ RNA
- **Up to 3x faster**  
RT-PCR reaction times



## AffinityScript Multiple Temperature RT

*Broad activity in temperatures ranging from 37-55 °C*

AffinityScript assures reverse transcription through GC-rich sequences with high cDNA yields, whether priming at room temperature with random hexamers or at stringent temperatures to enhance specificity.

- **High affinity to primer/template complexes**
- **Detects low input RNA**

### Ordering Info

Size: 10 rxn  
Cat No: 600105

Size: 50 rxn  
Cat No: 600107

Size: 200 rxn  
Cat No: 600109

## AffinityScript One-Step RT-PCR Kit

*High yield single-tube RT-PCR*

The AffinityScript One-Step RT-PCR Kit tolerates higher concentrations of inhibitors such as guanidine isothiocyanate, ethanol, formamide, and pectin for improved results.

- **Reduces cycling times & contamination risk with a one-tube, master mix format**
- **Robust performance** for difficult and GC-rich targets, with high yields

### Ordering Info

Size: 100 rxn  
Cat No: 600188

helpful **tip**

*AffinityScript One-Step is ideal for gene profiling and other high-throughput, end-point RT-PCR applications.*

# StrataClone PCR Cloning Kit

*Fast and reliable cloning*

## Ordering Info

PCR Cloning  
Cat No: 240205

Blunt PCR Cloning  
Cat No: 240207

Ultra Blunt PCR Cloning  
Cat No: 240218

The StrataClone PCR Cloning Kit allows high-efficiency, 5-minute cloning of PCR products, using the DNA rejoining activity of DNA topoisomerase I and the DNA recombination activity of Cre recombinase.

- **No PCR clean-up required**
- **Clone both long and short amplicons**
- **Available for both blunt-end and UA cloning**
- **High efficiency yields**  
>95% insert positive clones with StrataClone Ultra

# StrataPrep Plasmid Miniprep Kit

*Rapid plasmid purification*

## Ordering Info

Size: 50 rxn  
Cat No: 400761

Size: 250 rxn  
Cat No: 400763

The StrataPrep Plasmid Miniprep Kit provides a rapid, phenol-free method for purifying pure plasmid DNA from bacterial cultures.

- **High yields of plasmid DNA**  
up to 20 µg from 1.5-3.0 mL of culture
- **Accommodates all sizes of DNA**  
from 2.9 kb plasmids to 45 kb cosmids
- **Transforms as efficiently**  
as cesium chloride-purified DNA



## StrataPrep PCR Purification Kit

*Produces ready-to-use highly purified DNA*

The StrataPrep PCR Purification Kit provides a rapid silica-based method for separation of PCR products from PCR primers, unincorporated nucleotides, buffer components and enzymes.

- **Purifies PCR products**  
≥100 bp
- **No hazardous organic extraction**  
or ethanol precipitation involved
- **Compatible with downstream applications**  
such as high-throughput sequencing and microarrays

### Ordering Info

Size: 50 rxn  
Cat No: 400771

Size: 250 rxn  
Cat No: 400773

Size: 2 x 96-well  
Cat No: 400775

## StrataPrep DNA Gel Extraction Kit

*Purifies DNA fragments ranging from 100 bp to 23 kb*

The StrataPrep DNA Gel Extraction Kit allows rapid, high-yield isolation of pure DNA from agarose gels (up to 10 µg).

- **Recovers 70-85% of DNA fragments**  
ranging from 250 bp to 9 kb
- **Compatible with**  
low-melt agarose gels

### Ordering Info

Size: 50 rxn  
Cat No: 400766

Size: 200 rxn  
Cat No: 400768

helpful **tip**

Save time 

using Agilent's most popular  
enzyme protocols pre-loaded on  
the SureCycler 8800



## StrataCoolers & Plastics

### StrataCooler LP Benchtop Cooler

Provides the most protection for your enzymes whether in your freezer or on your benchtop.

- Maintains -15° C for at least 2 hours.
- Includes adapters for use with 0.5 mL tubes
- Eliminates ice chips & potential contamination



### StrataCooler Cryo Preservation Module

Enables controlled freezing (0.4-0.6° C/min) of cells to significantly increase survival rates (up to 90%)

- Convenient and controlled freezing
- Overall survival rates of 80-90%
- Avoids expense of methanol-based cooling baths



### Plastics & Labware

Product	Catalog No.
StrataCooler Cryo Preservation Module	400005
StrataCooler LP Benchtop Cooler, Blue	401349
Tube Strips, 200 µL, strips of 12	410082
Tube Cap Strips, strips of 12	410086
Tube-Strip Capping Tool	410099

Product	Catalog No.
96-well plate, 25 pack	401333
384-well plate, 50-pack	410188
Adhesive sealing films, 100-pack	410186
Compression mats, 10-pack	410187

## Agilent Combination Packs

*Start-to-finish PCR solution*

The combination packs, designed to provide a start-to-finish solution with your thermal cycler, simplify your ordering process while delivering the highest performing technologies. Each combination pack includes required reagents, PCR plasticware and a StrataCooler.



For more detailed information and kit components visit:  
[www.agilent.com/genomics/combopack](http://www.agilent.com/genomics/combopack)

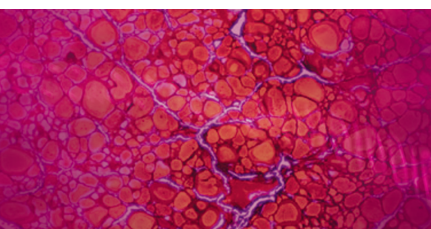
Product	Catalog No.
Cloning PCR Combo Pack	929900
Site-Directed Mutagenesis Combo Pack	929901
General RT-PCR Combo Pack	929902
Genotyping PCR Combo Pack	929903
General PCR Combo Pack	929904

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Surely Better  
PCR Solutions

High-Fidelity &  
Difficult PCR

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384-well module		G8820A	
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	200 rxn	600672	
	400 rxn	600674	
<b><i>PfuUltra</i> II HotStart Master Mix</b>	100 rxn	600850	6
	400 rxn	600852	
<b>Herculase II Fusion DNA Polymerase</b>	40 rxn	600675	8
	200 rxn	600677	
	400 rxn	600679	
<b><i>PfuUltra</i> High-Fidelity DNA Polymerase</b>	100 U	600380	13
	500 U	600382	
	1000 U	600384	
<b><i>PfuUltra</i> HotStart DNA Polymerase</b>	100 U	600390	13
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<b><i>PfuUltra</i> HotStart DNA Polymerase AD</b>	1000 U	600396	13
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	1000 U	600259	
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	1000 U	600159	
	5000 U	600160	
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Routine  
Enzymes

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		1000 U	600414		
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		500 U	600402		
		1000 U	600404		
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		500 U	600422		
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	<b>AffinityScript Multiple Temperature Reverse Transcriptase</b>	10 rxn	600105	15	
		50 rxn	600107		
		200 rxn	600109		
		<b>AffinityScript qPCR cDNA Synthesis Kit</b>	50 rxn	600559	–
		<b>Easy-A One Tube RT-PCR System</b>	50 rxn	600182	–
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<b>384-Well Plates</b>		50 pack	410188	18	
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		1000 U	600212	–	
	<b>Perfect Match PCR Enhancer</b>	100 U	600129	–	
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	<b>PhiX174/Hae III Marker</b>	20 µg	201100	–	
		100 µg	201101	–	
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	<b>General RT-PCR Combo Pack</b>	1 Pack	929902	19	
	<b>Genotyping PCR Combo Pack</b>	1 Pack	929903	19	
	<b>General PCR Combo Pack</b>	1 Pack	929904	19	

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