

## Low Error Rates for Cloning, Sequencing & Mutagenesis

Two High Fidelity mixes available for a range of applications

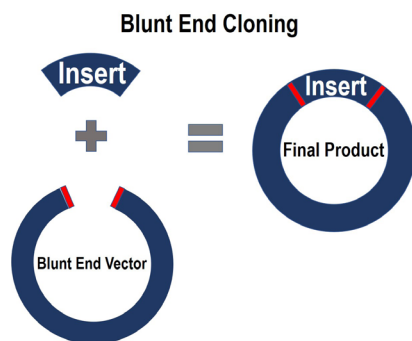
Highly tolerant of PCR inhibitors

Exceptionally sensitive for low copy number templates

Options for TA or blunt-end cloning

### High Fidelity Master Mix

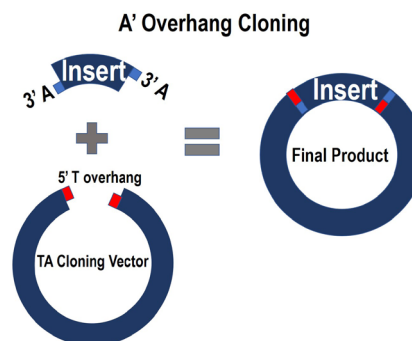
- Generates blunt ends
- Rapid extension: up to 1 kb per 15 seconds
- 100X greater fidelity than native Taq
- Ideal for shorter, less complex targets



Accuris High Fidelity Master Mix is perfect for shorter, less complex targets. Our 2X formulation provides extreme sensitivity in low copy number assays with 100X the fidelity of native Taq. The 2X master mix contains proprietary enhancers and a proof-reading component for trouble-free PCR reaction assembly and performance. The pre-optimized mix is supplied in a single tube, reducing the number of pipetting steps while improving throughput and reproducibility. Accuris High Fidelity Master Mix delivers a unique balance of PCR sensitivity, high fidelity, versatility, and tolerance to inhibitors.

### High Fidelity Hot Start Master Mix

- Generates A-overhangs
- Ideal for long PCR, up to 10 kb targets
- 10X greater fidelity than native Taq
- Ideal for difficult, high GC content sequences



Accuris High Fidelity Hot Start Master Mix is a hot start 2X formulation which provides excellent sensitivity in low-copy number assays with 10X higher fidelity than Taq polymerase. The 2X master-mix contains the same enhancers as the Accuris High Fidelity Master Mix but with an added hot start mechanism.

The mix is supplied in a single tube, reducing the number of pipetting steps while improving throughput and reproducibility. The highly efficient buffer formulation and hot-start enzyme blend provide the ideal conditions for high-performance PCR. The mix is inactive at room temperature, thereby eliminating non-specific amplification.

| Item no.      | Description                      | Reactions   |
|---------------|----------------------------------|-------------|
| PR1001-HF-200 | Accuris High Fidelity Master Mix | 200 x 25 µL |
| PR1001-HF-500 | Accuris High Fidelity Master Mix | 500 x 25 µL |

| Item no.        | Description                                | Reactions   |
|-----------------|--|-------------|
| PR1001-HFHS-200 | Accuris High Fidelity Hot Start Master Mix | 200 x 25 µL |
| PR1001-HFHS-500 | Accuris High Fidelity Hot Start Master Mix | 500 x 25 µL |

Accuris PCR reagents are for research use only.

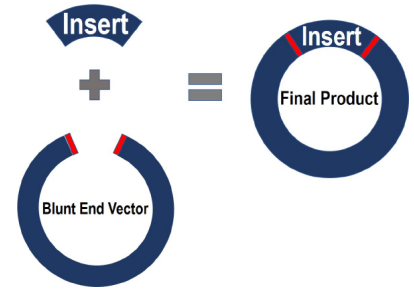


Accuris™ High Fidelity DNA Polymerase  
Supplied with 5X buffer

- 50x higher fidelity than Taq DNA Polymerase
- Works with crude DNA samples
- Ideal for cloning, mutagenesis and microarrays
- Optimized buffer system with unique PCR enhancers

For applications requiring highly accurate amplification, choose Accuris High Fidelity DNA Polymerase. Modified for better sensitivity and higher activity for more reproducible performance, this polymerase will amplify a wide range of targets, including those that are GC or AT rich as well as crude samples. A 3'-5' proofreading exonuclease activity and an error rate of  $4.55 \times 10^{-7}$  makes Accuris High Fidelity DNA Polymerase the perfect partner for low error rate applications. The supplied 5X buffer with dNTPs is optimized for compatibility with a variety of targets.

### Blunt End Cloning



Accuris™ High Fidelity Polymerase is ideally suited to amplification of crude samples with a high level of accuracy. In Lanes 1 through 8, decreasing amounts of polymerase (starting with 0.5 unit) are used in a colony PCR application in which bacterial DNA is amplified successfully, without any purification or removal of cell debris.

| Item no.      | Description                          | Size |
|---------------|--------------------------------------|------|
| PR1000-HF-200 | Accuris High Fidelity DNA Polymerase | 200U |
| PR1000-HF-500 | Accuris High Fidelity DNA Polymerase | 500U |

## Also Available from Accuris:

### Accuris Hot Start Taq Master Mix



Accuris™ Hot Start Taq DNA Polymerase  
2X Master Mix Red Dye

- Exceptional sensitivity for low copy PCR
- Ideal for multiplex PCR and amplification of GC-rich DNA

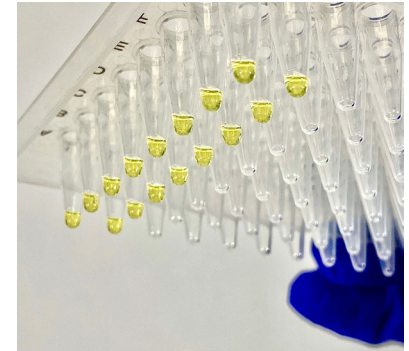
### Accuris 1 Hour Mammalian Genotyping Kit



Accuris™ 1 Hour Mammalian Genotyping Kit  
Includes Hot Start Taq Master Mix

- DNA extraction and amplification in an hour
- Proprietary lysis buffer optimized for ear punches, tail snips and other mammalian tissues

### qMAX Gold (Green Fluorescence qPCR Mix)



- Inert yellow dye helps reduce pipetting errors
- Room temperature stable for up to 30 days

Please inquire about these products for more information

Accuris PCR reagents are for research use only.