

SharkaTAQ™

HiFi DNA Polymerase

ROBUST PCR AMPLIFICATIONS WITH LOW ERROR RATE



DESCRIPTION

The Frontier Genomics SharkaTAQ™ HiFi Polymerase is a unique blend of Standard SharkaTAQ Hot Start DNA polymerase and a proof-reading polymerase with 3' to 5' exonuclease activity.

SharkaTAQ™ HiFi exhibits optimal activity at 75°C and a half-life of approximately 45 min at 94°C.

SharkaTAQ Hot Start is inactivated using a proprietary method. The inactive state completely prevents non-specific primer annealing and the formation of primer-dimers during setup.

SharkaTAQ™ enzymes are highly purified by column-chromatography and are free of any contaminating exonuclease and endonuclease activities.

APPLICATIONS

Use for sequencing, cloning and TILLING applications or in any situation where low error rate is desirable

KIT COMPONENTS

SharkaTAQ Hot Start DNA Polymerase + proof-reading polymerase 5 Units / ul

10 x reaction buffer containing 18mM MgCl₂ + detergent

Separate tube of 50mM MgCl₂ for assay optimization

dNTPs

ORDERING INFORMATION

500 units: \$350

5,000 units: \$3,500

50,000 units: \$30,000

Contact us for bulk discounting, institutional pricing & custom packaging. Also available as 2x Master Mix .

STORAGE & STABILITY

Stable for at least 1 year at -20°C.

Avoid repeated freeze-thaw cycles.

Aliquot into separate tubes and store at -20°C. Also available as 2x Master Mix.

KEY FEATURES

Low error rate of only 4 nucleotides per 1 million nucleotide incorporation events

Generate amplicons over 10 kb on genomic templates or 40 kb on less complex DNA

Direct replacement for more expensive high fidelity polymerases

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