

SharkaTAQ™

HiFi Master Mix

ROBUST PCR WITH LOW ERROR RATE IN A CONVENIENT PRE-MIXED FORMULATION SUPPLIED AT 2X CONCENTRATION



DESCRIPTION

The Frontier Genomics SharkaTAQ™ HiFi Polymerase Master Mix is a unique blend of standard SharkaTAQ Hot Start DNA polymerase and a proof-reading polymerase with 3' to 5' exonuclease activity, supplied in a convenient 2X Master Mix format.

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

APPLICATIONS

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

KIT COMPONENTS

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

2 x buffer with 1.8mM final concentration of MgCl₂ + detergent + dNTPs

We can supply with customized 2 x buffers to meet your specific needs

ORDERING INFORMATION

100 x 50 ul rxns (2.5 mls): \$150

200 x 50 ul rxns (5 mls): \$300

1000 x 50 ul rxns (25 mls): \$1,500

Contact us for bulk discounting, institutional pricing & custom packaging.

STORAGE & STABILITY

Stable for at least one year at -20°C. Avoid repeated freeze-thaw cycles. Aliquot into separate tubes and store at -20°C. Storage at 4°C is recommended only for periods of up to 1 week.

KEY FEATURES

2x Master Mix format – just add primers, template and H₂O

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

Increased reproducibility and throughput, decreased risks of contamination

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

Robust enzyme ideal for any PCR application requiring low error rate

Fast, easy assembly at room temperature

Direct replacement for more expensive Hot Start high fidelity master mix kits

Usage restrictions: All products are intended to be used for research purposes only. They are not to be used for drug or diagnostic purposes nor are they intended for human use. Frontier Genomics products may not be re-sold or transferred, modified for re-sale or transfer or used to manufacture commercial products without written approval from Frontier Genomics LLC.

