blikka®
KURA

DeCodi-Fi
THE MOST AFFORDABLE
HIGH-FIDELITY POLYMERASE
IN THE MARKET

HIGH-FIDELITY POLYMERASE KITS

A dynamic family of kits featuring a groundbreaking foundation: **our hot-start meticulously engineered DeCodi-Fi high-fidelity DNA Polymerase enzyme for both NGS and PCR applications.** Unlock its power to amplify complex DNA populations with unparalleled fidelity, efficiency, and minimal bias, resulting in enhanced coverage and yield across challenging regions such as GC and AT rich areas.

OUR SOLUTIONS FOR LIBRARY AMPLIFICATION AND HIGH-FIDELITY PCR

DeCodi-Fi
HIGH-FIDELITY PCR KIT

Our hotstart high-fidelity polymerase and all necessary components separately for greater flexibility. It includes a 5X High-Fidelity Buffer for most templates and a 5X GC-rich Buffer for GC-rich targets.

DeCodi-Fi
ALL-IN-ONE MIX

Our hotstart high-fidelity polymerase in a convenient 2X MasterMix. It includes all essential reaction components (dNTPs, $MgCl_2$, and stabilizers) in a proprietary buffer.

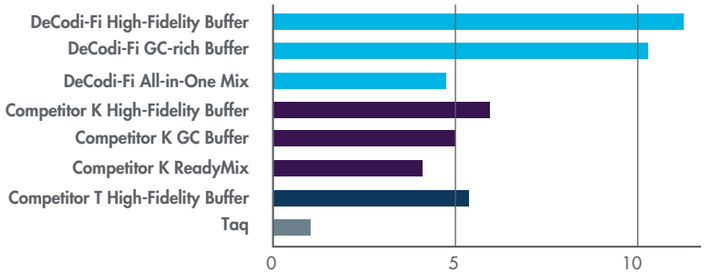
Core Highlights

- **HIGH-FIDELITY**
  Ensure highly accurate amplification with a 50% reduction in overall polymerase error rate.
- **LOW BIAS**
  Superior coverage across a wide range of Genomic DNA libraries from high AT to high GC content (32% to 73% GC).
- **AMPLIFICATION EFFICIENCY**
  Experience high specificity and yield, even when amplifying amplicons with a wide range of inputs (from 0.1 ng) and GC content (25% to 85%).
- **LONG FRAGMENTS**
  Reliable amplifications of up to 23 kb and with optimization up to 44 kb.

HIGH-FIDELITY

Designed to perform equivalent, and even surpass, the leading polymerase on the market, resulting in a 50% reduction in overall polymerase error rate.

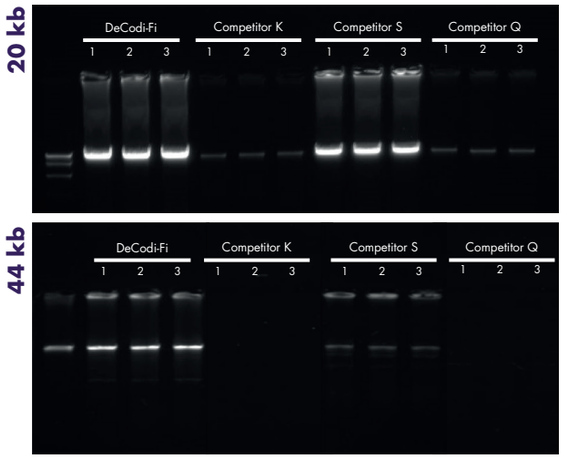
Fidelity compared to Taq



Comparison of DeCodi-Fi and competitor K and T polymerase fidelity, measured in terms of fold improvement over Taq Polymerase, based on Illumina libraries of the complete E. coli genome.

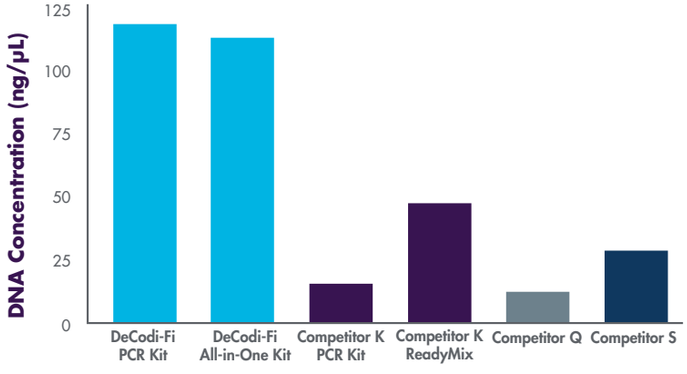
LONG AMPLIFICATION

Maximize target yield with high-efficient amplification, even with fragments size up to 40 kb of length.



Amplification of lambda DNA fragments 20 kb and 44 kb with DeCodi-Fi High-Fidelity polymerase, Competitor K, S and Q. Each target was amplified from low input (1ng) Reactions were performed following the optimized conditions for each enzyme and using 24 cycles. The experiment was run in triplicate.

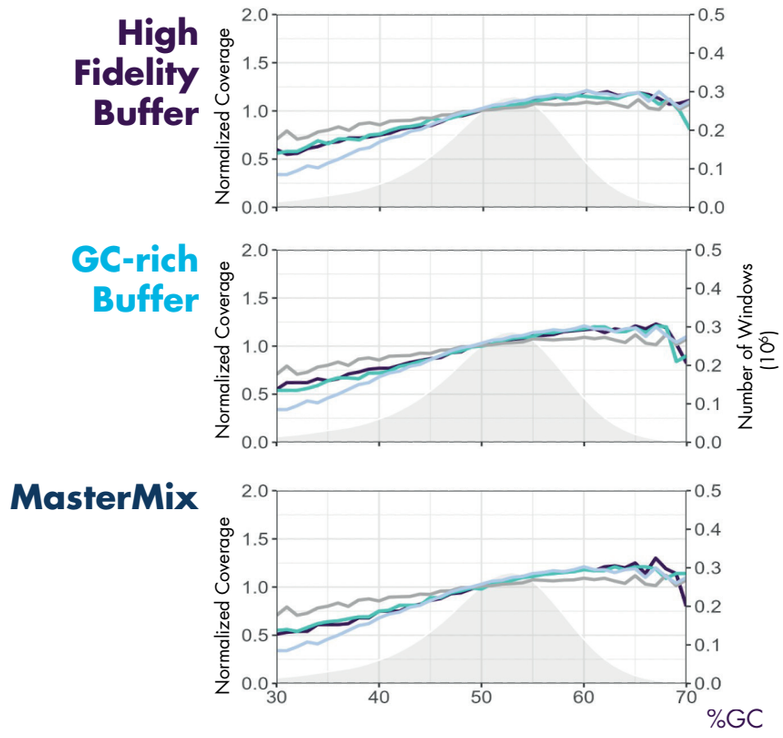
HIGH YIELD



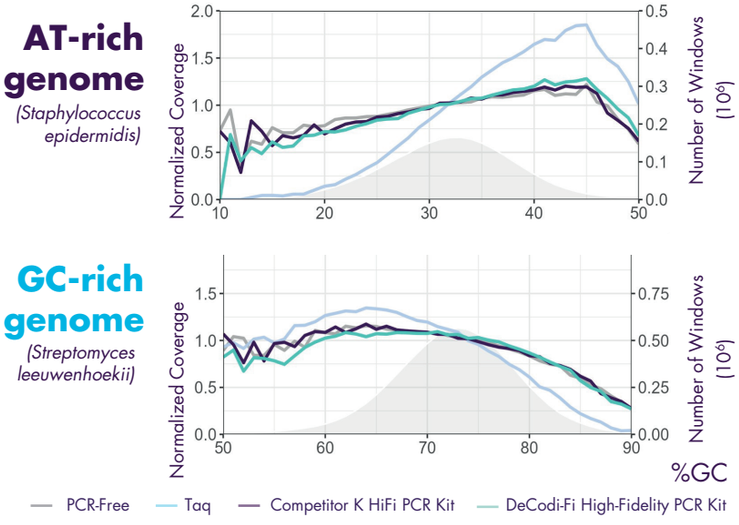
SEQUENCE COVERAGE

Ensures low bias amplification, even using different buffers and in AT-rich or GC-rich fragments, guaranteeing a more uniform coverage and improved sequencing depth.

Common Genome *(Escherichia coli)*



Other Genomes



Illumina libraries prepared from a common genome (Escherichia coli) were amplified using Taq polymerase, Competitor K HiFi PCR kit and DeCodi-Fi High-Fidelity PCR kit (left). Illumina libraries prepared from an AT-rich genome (Staphylococcus epidermidis) and a GC-rich genome (Streptomyces leeuwenhoekii) were amplified using Taq polymerase, Competitor K HiFi PCR kit and DeCodi-Fi High-Fidelity PCR kit (right).

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KURA

REVOLUTIONIZING GENOMICS WITH INNOVATIVE ENZYME SOLUTIONS

Blikka, the newest division of Kura Biotech, pioneers cutting-edge enzymes for DNA Synthesis and next-generation sequencing (NGS). Leveraging advanced computer modeling and Kura's protein engineering platform, we're set to introduce innovative products. Our commitment extends beyond direct offerings to collaborative partnerships, ensuring a diverse portfolio.

A DECADE OF EXCELLENCE

Kura Biotech, a leader in enzyme solutions for a decade, has delivered top-tier enzymes to renowned labs worldwide. Our beta-glucuronidase enzymes set standards for precision and reliability in toxicology. **Now, with Blikka, we extend our expertise to genomics and multi-omics applications.**

LOWERING COSTS WITH INNOVATIVE SOLUTIONS

In a genomics industry focused on reducing sequencing costs, **Blikka focuses on lowering upfront sample preparation expenses.** Our DeCodi-Fi polymerase optimizes workflow efficiency, offering affordable solutions with custom bulk formulations and extended shelf life.

PARTNERSHIP FOR PROGRESS

Collaborate with us to co-create novel enzyme solutions. Benefit from our expertise in enhancing research capabilities with OEM and custom solutions, incorporating enzymes directly into private-labeled kits. **Together, let's rewrite the future of genomics.**

Know more here

WANT TO KNOW MORE?
Contact us at
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or visit www.blikka.com

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