

Genie Fusion Ultra High Fidelity DNA Polymerase

PHENOMENAL PERFORMANCE

Ultra high-fidelity DNA polymerase with error rates x53-fold lower than conventional Taq and x6-fold lower than Pfu

SUPREME SPECIFICITY

Formulated with dual monoclonal antibodies for super-specific Hotstart PCR

EXTREME FLEXIBILITY

Amplifies GC-rich templates and DNA up to 40kb

SUPER RESISTANCE

Highly resistant to PCR inhibitors & supreme choice for direct PCR from bacteria, fungi, plant tissues, animal tissues and whole blood samples

MULTIPLE FORMATS

Stand-alone DNA polymerase and Mastermix formats available



Exceptional Performance

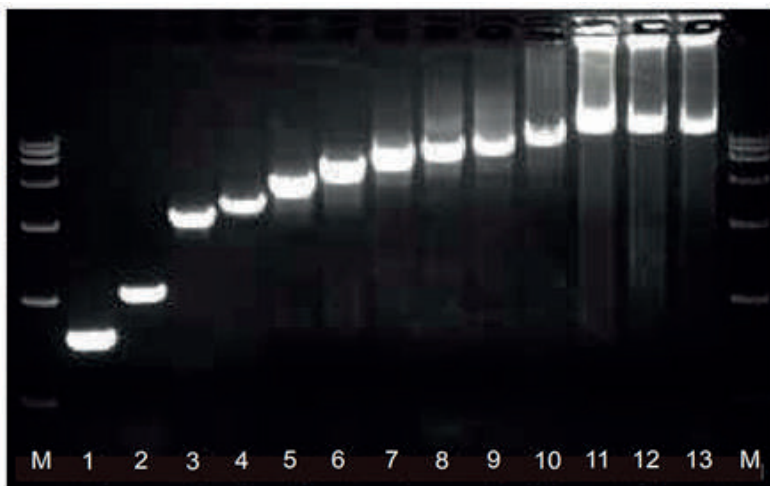


Figure 1: Highly productive amplification of Human genomic DNA fragments of 0.6 kb, 1.0 kb, 2.6 kb, 3.0 kb, 4.0 kb, 5.1 kb, 6.2 kb, 7.1 kb, 8.5 kb, 10.6 kb, 17.8 kb, 20.3 kb, and 21.4 kb

M: 15kb marker

- Lane 1: 0.6kb
- Lane 2: 1.0kb
- Lane 3: 2.6kb
- Lane 4: 3.0kb
- Lane 5: 4.0kb
- Lane 6: 5.1kb
- Lane 7: 6.2kb
- Lane 8: 7.1kb
- Lane 9: 8.5kb
- Lane 10: 10.6kb
- Lane 11: 17.8kb
- Lane 12: 20.3kb
- Lane 13: 21.4kb

Exceptional Amplification

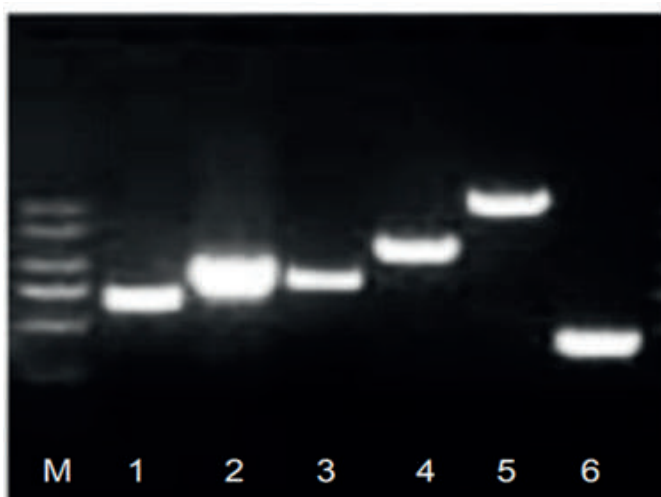


Figure 2: Exceptional amplification using GC-rich human genomic DNA templates of 654 bp, 900 bp, 800 bp, 1200 bp, 1400 bp, and 426 bp. The GC content of amplicons was higher than 68%.

M: 2kb marker

- Lane 1: 654 bp | 68.1% GC Content
- Lane 2: 900 bp | 69.4% GC Content
- Lane 3: 800 bp | 71.3% GC Content
- Lane 4: 1.2kb | 73.5% GC Content
- Lane 5: 1.4kb | 74.7% GC Content
- Lane 6: 426 bp | 76.8% GC Content



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Supreme Fidelity

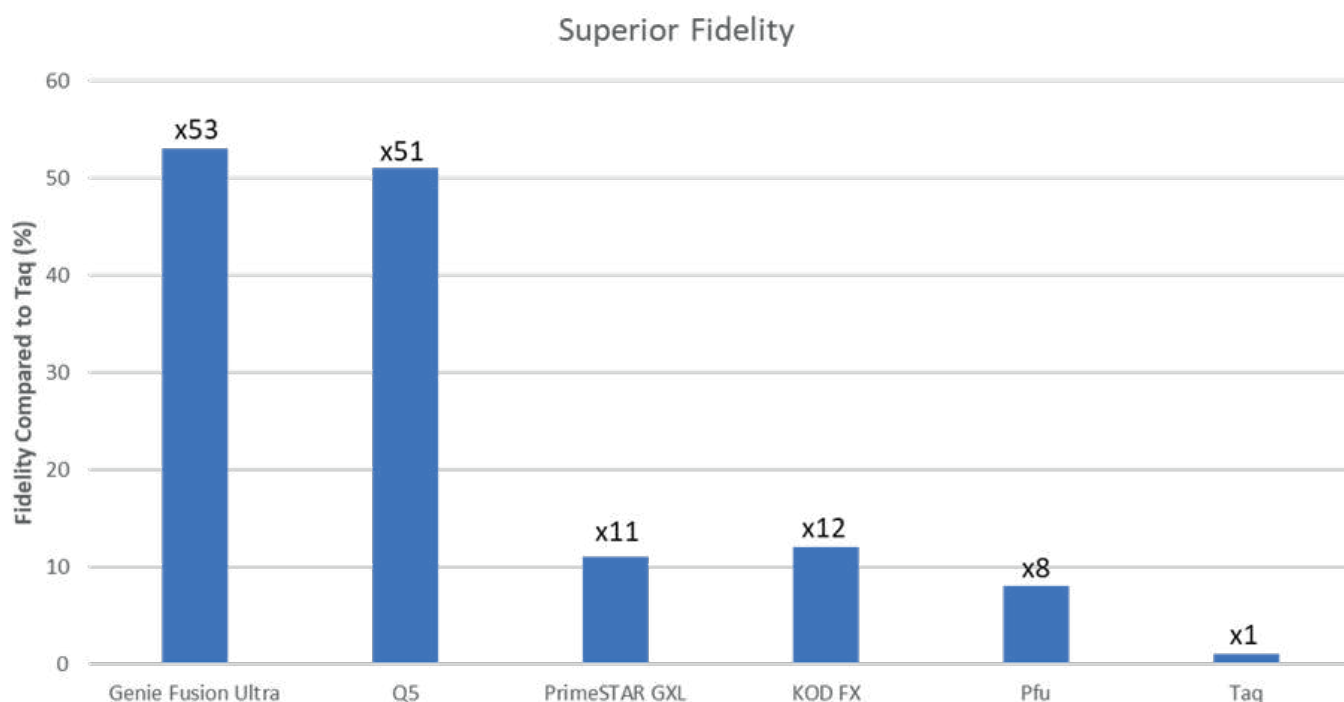


Figure 3: The amplification fidelity of Genie Fusion Ultra High-Fidelity DNA Polymerase is 53-fold superior to Taq DNA Polymerase and 6-fold higher than that of Pfu, which is significantly superior to other products. This figure shows a comparison of amplification fidelity among various polymerases detected by a LacI Assay (Cline et al., Nucleic Acids Research 24: 3546-3551(1996).

CODE	PRODUCT	PACK SIZE	PRICE
MORV0001	Genie Fusion Ultra High-Fidelity DNA Polymerase	100 U	
MORV0001-500	Genie Fusion Ultra High-Fidelity DNA Polymerase	500 U	
MORV0001-1000	Genie Fusion Ultra High-Fidelity DNA Polymerase	1000 U	
MORV0002	Genie Fusion Ultra High-Fidelity 2X Master Mix	1 ml / 40 rxns	
MORV0002-5	Genie Fusion Ultra High-Fidelity 2X Master Mix	5 ml / 200 rxns	
MORV0002-15	Genie Fusion Ultra High -Fidelity 2X Master Mix	15 ml / 600 rxns	
MORV0003	Genie Fusion Ultra High -Fidelity Red 2X Master Mix	1 ml / 40 rxns	
MORV0003-5	Genie Fusion Ultra High -Fidelity Red 2X Master Mix	5 ml / 200 rxns	
MORV0003-15	Genie Fusion Ultra High -Fidelity Red 2X Master Mix	15 ml / 600 rxns	