

For more information, including our  
FREE SAMPLE special offer, visit  
[www.Q5PCR.com](http://www.Q5PCR.com)

# Fidelity at its finest.

## Q5<sup>™</sup> High-Fidelity DNA Polymerase

Q5 High-Fidelity DNA Polymerase sets a new standard for both fidelity and performance. With the highest fidelity amplification available (>50X higher than *Taq*), Q5 DNA Polymerase results in ultra-low error rates. Its unique buffer system provides superior performance for a broad range of amplicons, regardless of GC content. Available in master mix and hot start formulations, Q5 DNA Polymerase represents the finest in fidelity.

ALSO AVAILABLE: Optimized NEBNext<sup>®</sup> formulation for next generation sequencing library amplification

Mandarin Ducks (*Aix galericulata*) are frequently featured in Chinese art and are regarded as a symbol of fidelity.

### Robust amplification even with high GC amplicons



Amplification of two human genomic amplicons of mid to high GC content. All reactions were conducted using 30 cycles of amplification and visualized by microfluidic LabChip<sup>®</sup> analysis. All polymerases were cycled according to manufacturer's recommendations. For the 78% GC amplicon, GC Buffers or enhancers were used when supplied with the polymerase.

A = Q5<sup>™</sup> High-Fidelity DNA Polymerase (NEB)

B = Phusion<sup>®</sup> High-Fidelity DNA Polymerase (NEB)

C = KOD DNA Polymerase (EMD)

D = PfuUltra<sup>™</sup> High-Fidelity DNA Polymerase (Agilent)