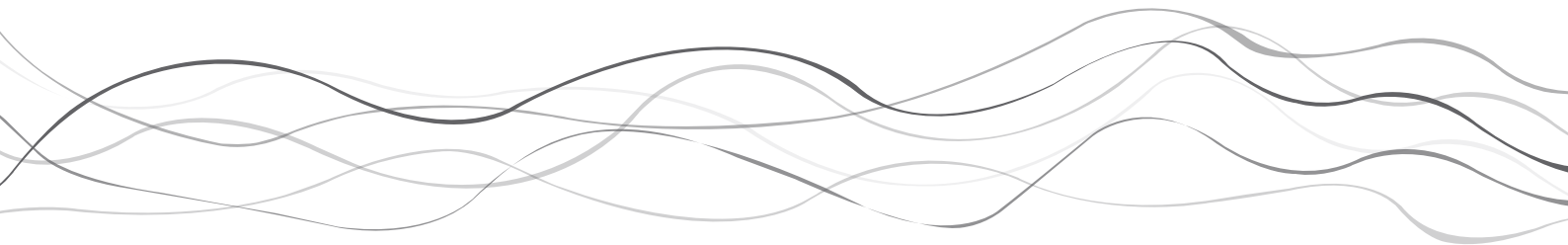


Axen™ High-Q DNA Polymerase



Axen™ High-Q DNA Polymerase

Storage 1year at -20℃ | For research use only

1. Features

- High-fidelity PCR : 100X higher sequence accuracy than Taq
- Hot Start PCR : antibody
- 5'→3' exonuclease activity : No
- 3'→5' exonuclease activity : Yes
- Amplification size – genomic DNA : < 10kb
– plasmid DNA : < 20kb
- PCR products : blunt end
- Works with both AT and GC rich targets.

2. Kit components

	MG-E-003-250	MG-E-003-500
High-Q DNA Polymerase (5 Unit/ μ L)	250U	500U
5X High-Q Buffer ^[1]	1.2mL	2 x 1.2mL
5X High-Q GC Enhancer ^[2]	1.2mL	2mL
dNTP Mix, 10mM each	0.2mL	0.3mL
Water, nuclease free	2mL	2mL

^[1] Includes 8.5mM MgCl₂

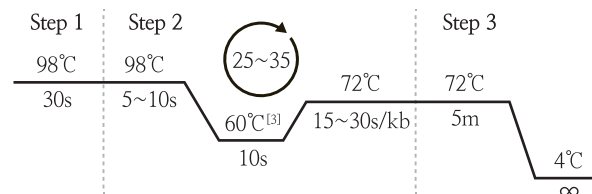
^[2] For amplicons with > 65% GC content

3. Protocol

1) Reaction Mixture (For 20 μ L or 50 μ L reaction)

	20 μ L rxn	50 μ L rxn
5X High-Q Buffer	4 μ L	10 μ L
5X High-Q GC Enhancer	4 μ L	10 μ L
dNTP Mix, 10mM each	0.4 μ L	1 μ L
Forward primer	0.1–1.0 μ M	
Reverse primer	0.1–1.0 μ M	
Template DNA	5–100ng genomic DNA 0.01–10ng plasmid	
High-Q DNA Polymerase	0.2 μ L (1U)	0.5 μ L (2.5U)
Water, nuclease free	add to 20 μ L	add to 50 μ L

2) Thermal cycling conditions



^[3] Enables a universal annealing temperature of 60 °C in PCR