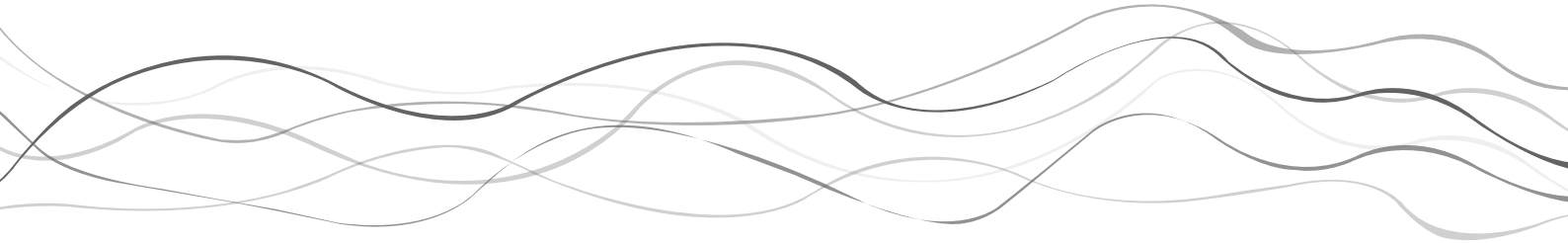
Humanizing Genomics
macrogen

Axen™
Taq
DNA Polymerase



Axen™ Taq DNA Polymerase

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

1. Features

- 5'→3' exonuclease activity : Yes
- 3'→5' exonuclease activity : No
- Amplification size : 〈 3 kb
- PCR products : 3'−dA overhang
- Works with GC rich targets.

2. Kit components

	MG−E−001−500	MG−1−001−1000
Taq DNA Polymerase (5 Unit/ μL)	500U	1,000U
10X Taq Buffer[1]	1.2mL	2 x 1.2mL
5X Q GC Enhancer[2]	2mL	2 x 2mL
dNTP Mix, 10mM each	0.3mL	0.5mL
Water, nuclease free	2mL	2mL

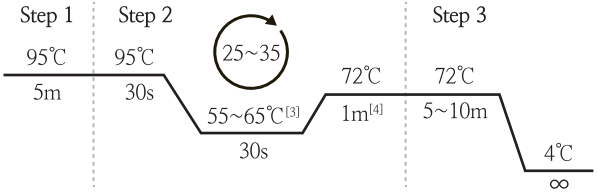
[1] Includes 20mM $MgCl_2$
[2] For amplicons with 〉65% GC content

3. Protocol

1) Reaction Mixture (For 20 μL or 50 μL reaction)

	20 μL rxn	50 μL rxn
10X Taq Buffer	2 μL	5 μL
5X Q GC Enhancer	4 μL	10 μL
dNTP Mix, 10mM each	0.4 μL	1 μL
Forward primer	0.1−1.0 μM	
Reverse primer	0.1−1.0 μM	
Template DNA	5−100ng genomic DNA 0.01−10ng plasmid	
Taq DNA Polymerase	0.2 μL (1U)	0.5 μL (2.5U)
Water, nuclease free	add to 20 μL	add to 50 μL

2) Thermal cycling conditions



[3] Optimal annealing temperature depends on the melting temperature of the primers and on the system used.
[4] The recommended extension step is 1 minute for PCR products up to 2 kb. For longer products, the extension time should be prolonged by 1 minute/kb.

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