



ELK Biotechnology

2 DNA 10 DNA PCR DNA 50µl

DNA	0.05µg-0.5µg/50µlPCR
DNA	10ng-100ng/50µlPCR
DNA	0.5ng-5ng/50µlPCR
DNA	0.1ng-10ng/50µlPCR

1,000 10,000

3 10µM (50×) 0.2µM

1. 94 1~5 min Taq

2 PCR Tm) PCR Tm 5 (Tm
Tm Tm = 2 ×(A+T) + 4 × (G+C) Tm

PCR 3 72 DNA 1kb/min
5-10min

4 25~35



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1. 10×PCR Buffer dNTPs ddH₂O DNA
2. PCR

10×PCR Buffer	5
1 10 μM	1
2 10 μM	1
Taq DNA Polymerase	0.5
DNA	n
ddH ₂ O	up to 50

- * 1 10×PCR Buffer PCR
 3 Mg²⁺ 2mM
 25mM MgCl₂ 2-5mM
 2 0.5ul/50ul 0.5-1.0ul/50uL
 50 μl
 3 PCR
 4 PCR

	94	1-5 min	1x
	94	15 sec	25-35x
*	50-60	30 sec	
	72	30 sec	
	72	10 min	1x

* 1kb/min



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5. 5-10 μ l

* DNA

0.5%	1,000-30,000
0.7%	800-12,000
1.0%	500-10,000
1.2%	400-7,000
1.5%	200-3,000
2.0%	50-2,000