

Taq DNA 94 KD 10 kb 30s/kb 70~75
 10s/kb 5' 3' 3' 5'
 3'-dA TA

U DNA / 72 30 min
 10 nmol

-20 2

		500U	500U	1,000U	1,000U	12,000U
Taq DNA	5U/μl [1]	100 μl	100 μl	200 μl	200 μl	100 μl 24
Taq DNA	2.5U/μl [1]	200 μl	200 μl	400 μl	400 μl	200 μl 24
10 Taq Buffer Mg ²⁺ Plus	[2]	1.25 ml	1.25 ml	1.25 ml 2	1.25 ml 2	1.25 ml 24
10 Tpol Buffer Mg ²⁺ Plus	[2]	1.25 ml	1.25 ml	1.25 ml 2	1.25 ml 2	1.25 ml 24
6 Loading Buffer ^[3]		1 ml	1 ml	1 ml	1 ml	-
dNTPs 2.5mM [4]		-	1 ml	-	1 ml 2	-

[1] 5U/μl 2.5U/μl

5U/μl

[2] 10 | Taq Buffer 10 | Tpol Buffer Mg²⁺ Plus Mg²⁺ Free

Mg²⁺ Plus Mg²⁺ Free Taq Buffer Tpol Buffer 25mM MgCl₂ Taq Buffer PCR

Buffer Tpol Buffer PCR

[3] P1015 6 | Loading Buffer Cat. # M9041

[4] dNTPs dATP dGTP dCTP dTTP P1011/P1013/P1015 dNTPs

Cat. # P9011/P9012/P9013

PCR DNA

		(50 μl reaction volume)	(50 μl reaction volume)
1	10 Taq Buffer Mg ²⁺ Plus [1]	5 μl	1
2	dNTPs 2.5mM	4 μl	0.4 mM
3	upstream primer (10 μM) ^[2]	2 μl	0.4 μM
4	downstream primer (10 μM) ^[2]	2 μl	0.4 μM
5	Taq DNA 5U/μl [3]	0.5 μl	2.5U
6	template DNA ^[4]	1-4 μl	<1 μg
7	[5]	To 50 μl	-
optional	MgCl ₂ (MgSO ₄)/PCR Enhancer ^[6]	Variable	-

[1] Taq Buffer PCR Buffer Tpol Buffer

[2] 0.1-1 μM

[3] DNA

[4]

DNA

50 >l

3

1 | 10⁻⁵

Taq DNA

Template	Dosage
DNA	0.1>g-1>g
<DNA	0.5ng-5ng
DNA	10ng-100ng
DNA	0.1ng-10ng

[5]

Cat. # P9021/P9022/P9023

[6]

25mM MgCl₂

Cat. # P9031

PCR Enhancer

Cat. # P9041

Initial Denaturation	94	3 min	1
Denaturation	94	30 sec	25-35
Annealing	55-68 ^[1]	30 sec	
Extension	72	Variable ^[2]	
Final Extension	72	5-10 min	1

- [1] Tm
- [2] 30s/kb 10s/kb

loading buffer

1

2

DNA

1: 10000

3

DNA

4

PCR

PCR Enhancer

Cat. # P9041

MgCl₂

Cat. # P9031

1 Taq DNA

2 Taq DNA

Taq DNA

DNA

PCR

3'

1

TA

Taq DNA

A