

Pfu DNA 90 KD Taq DNA 10 5 kb
1min/kb 70~75 20s/kb 5' 3'
3' 5'

	250U	250U	1,000U	1,000U
Pfu DNA 5U/εl	50 εl	50 εl	200 εl	200 εl
10 $\times$ Pfu Buffer Mg ²⁺ Plus [1]	1.25 ml	1.25 ml	1.25 ml $\times$ 2	1.25 ml $\times$ 2
6 $\times$ Loading Buffer[2]	1 ml	1 ml	1 ml	1 ml
dNTPs 2.5mM [3]	-	1 ml	-	1 ml $\times$ 2

[1] 10 $\times$ Pfu Buffer Mg²⁺ Plus Mg²⁺ Free 10 $\times$ Pfu Buffer 25 mM MgCl₂
Buffer(Mg²⁺ Plus) Mg²⁺ Free 10 $\times$ Pfu Buffer 25 mM MgCl₂
[2] 6 $\times$ Loading Buffer Cat. # M9041
[3] dNTPs dATP dGTP dCTP dTTP P1021/P1023 dNTPs
Cat. # P9011/P9012/P9013

U DNA / 72 30 min
10 nmol

-20 2

PCR DNA

		(50 εl reaction volume)	(50 εl reaction volume)
1	10 $\times$ Pfu Buffer Mg ²⁺ Plus	5 εl	1 $\times$
2	dNTPs 2.5mM	4 εl	0.4 mM
3	upstream primer (10 εM)[1]	2 εl	0.4 εM
4	downstream primer (10 εM)[1]	2 εl	0.4 εM
5	Pfu DNA 5U/εl [2]	0.5 εl-1 εl	2.5U-5U
6	template DNA[3]	1-4 εl	<1εg
7	[4]	To 50 εl	-
optional	MgCl ₂ (MgSO ₄)/PCR Enhancer[5]	Variable	-

[1] 0.1-1 εM

[2] DNA

[3] DNA 50 εl

Template	DNA	εDNA	DNA	DNA
Dosage	0.1εg-1εg	0.5ng-5ng	10ng-100ng	0.1ng-10ng

[4] Cat. # P9021/P9022/P9023

[5] 25mM MgCl₂ Cat. # P9031 PCR Enhancer Cat. # P9041

Initial Denaturation	94	3 min	1

Denaturation	94	30 sec	
Annealing	55-68 ^[1]	30 sec	25-35
Extension	72	Variable ^[2]	
Final			