

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/μl	50 μl	50 μl	200 μl	200 μl
10μl Pfu Buffer Mg ²⁺ Plus [1]	1.25 ml	1.25 ml	1.25 ml 2	1.25 ml 2
6μl Loading Buffer[2]	1 ml	1 ml	1 ml	1 ml
dNTPs 2.5mM [3]	-	1 ml	-	1 ml 2

[1] 10μl Pfu Buffer Mg²⁺ Plus Mg²⁺ Free 10μl Pfu Buffer 25 mM MgCl₂
[2] 6μl 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 μl reaction volume)	(50 μl reaction volume)
1	10μl Pfu Buffer Mg ²⁺ Plus	5 μl	1μl
2	dNTPs 2.5mM	4 μl	0.4 mM
3	upstream primer (10 μM)[1]	2 μl	0.4 μM
4	downstream primer (10 μM)[1]	2 μl	0.4 μM
5	Pfu DNA 5U/μl [2]	0.5 μl-1 μl	2.5U-5U
6	template DNA[3]	1-4 μl	<1>g
7	[4]	To 50 μl	-
optional	MgCl ₂ (MgSO ₄)/PCR Enhancer[5]	Variable	-

[1] 0.1-1 μM
[2] DNA
[3] DNA 50 μl
Template DNA <DNA DNA DNA
Dosage 0.1>g-1>g 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
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Denaturation	94	30 sec	
Annealing	55-68 ^[1]	30 sec	25-35
Extension	72	Variable ^[2]	
Final			