

PCR

Invitrogen Platinum Taq

10X Buffer	2.5 ul	5 ul	10 ul
50mM MgCl ₂	1 ul	2 ul	4 ul
2.5mM dNTP	2 ul	4 ul	8 ul
Forward primer 10uM	0.5 ul	1 ul	2 ul
Reverse primer 10uM	0.5 ul	1 ul	2 ul
DNA template	1 ul	2 ul	4 ul
Platinum Taq	0.1 ul	0.2 ul	0.4 ul
dH ₂ O	17.5 ul	35 ul	70 ul
Total Volume	25ul	50ul	100ul

Procedure:

	Temperature	Time	Number of cycles
Preheat PCR machine to 94°C			
Initial Denaturation	94°C	2 min	1
Denaturation	94°C	0.5 min	30-40
Annealing	45-60°C	0.5 min	
Extension	72°C	1 min for 1kb	
Final Extension	72°C	15 min	1
Cool down	4°C	Hold	1

Invitrogen High fidelity Platinum Taq

10X HF Buffer	2.5 ul	5 ul	10 ul
50mM MgSO ₄	1 ul	2 ul	4 ul
2.5mM dNTP	2 ul	4 ul	8 ul
Forward primer 10uM	0.5 ul	1 ul	2 ul
Reverse primer 10uM	0.5 ul	1 ul	2 ul
DNA template	1 ul	2 ul	4 ul
Platinum Taq	0.1 ul	0.2 ul	0.4 ul
dH ₂ O	17.5 ul	35 ul	70 ul
Total Volume	25ul	50ul	100ul

Procedure: almost the same as platinum taq, except

Extension	68°C
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