

PCR for CD21 Cre

PCR REACTION:

10xPCR buffer	2 λ
MgCl ₂ 25mM	depends on Taq polymerase
dNTP's 2.5mM	1 λ
Primer A (324)	5 pmol / reaction
Primer B (325)	5 pmol / reaction
DNA	1 λ
Taq polymerase	Variable
milliQ H ₂ O	Up to volume (20 λ)

Primer A (sense): 5'-att-acc-ggt-cga-tgc-aac-gag-t-3'

Position in relating gene: (bacteriophage P1 cre recombinase)68-80*

Primer B (antisense): 5'-cag-gta-tct-ctg-acc-aga-gtc-a-3'

Position in relating gene:(bacteriophage P1 cre recombinase)852-873*
(*starting point: atg of cre recombinase)

PCR CONDITIONS:

1. 94⁰C for 5 min.
2. 94⁰C for 1 min.
3. 57⁰C for 1 min.
4. 72⁰C for 1 min.
5. Steps 2-4 for 5 more cycles.
6. 94⁰C for 10 sec.
7. 55⁰C for 40 sec.
8. 72⁰C for 1:30 min.
9. Steps 6-8 for 25 more cycles.
10. 72⁰C for 10 min.
11. 16⁰C for 1 min.
12. End

PCR PRODUCT: Transgene band: 813bp.