

PCR FOR CRE (common)

PCR REACTION:

10X PCR buffer	2ul
MgCl ₂ 25 mM	Depends on Taq polymerase (usually 2ul)
dNTP'S 2,5 mM	1ul
Primer A	5 pmol per reaction (1ul from 5pmole/ul stock)
Primer B	5 pmol per reaction (1ul from 5pmole/ul stock)
DNA	1ul
Taq	Variable (0.4ul)
dd.H ₂ O	Up to volume (20λ) 11.6ul

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. 94°C for 5 min.
2. 94°C for 1 min.
3. 57°C for 1 min.
4. 72°C for 1 min.
5. Steps 2-4 for 5 more cycles.
6. 94°C for 10 sec.
7. 55°C for 40 sec.
8. 72°C for 1:30 min.
9. Steps 6-8 for 25 more cycles.
10. 72°C for 10 min.
11. 16°C for 1 min.
12. End

PCR PRODUCT: Transgene band: ~800bp.

PHOTO EXAMPLE:

