

*ArcCreERT2 Cre Protocol*  
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*Cre primer formula*

7  $\mu$ l of CreP1  
7  $\mu$ l of CreP2  
600  $\mu$ l dH<sub>2</sub>O  
614  $\mu$ l total

Add 11.4  $\mu$ l primer mix  
Add 12.6  $\mu$ l EconoTaq  
Add 1  $\mu$ l of DNA to tube.

*PCR Program (approx. 1 hour and 38 mins)*

Use Cre program on PCR machine

95°C      2:00  
95°C      0:15  
55°C      0:15  
72°C      1:30  
34X to 2  
72°C      2:00  
4°C        forever

*Primers*

CreP1: GCC TGC ATT ACC GGT GGA TGA AAC G

CreP2: AAA TCC ATC GCT CGA CCA GTT TAG TTA CCC

*Gel Electrophoresis*

Run on 1.2% agarose gel for 20 min at 120V

1 band (Cre+ or Cre-) 644bp