

## PCR for MK2 conditional k/o

### PCR REACTION:

10x PCR buffer	2 $\lambda$
MgCl <sub>2</sub> 25mM	depends on the Taq polymerase
dNTP's 2.5mM	1.5 $\lambda$
Primer A	5 pmol /reaction
Primer B	5 pmol /reaction
Primer C	10 pmol /reaction
Taq polymerase	Variable
DNA	1 $\lambda$
milliQ H <sub>2</sub> O	Up to volume 20 $\lambda$

**Primer A (sense):** 5'-CACCGGGCTGAGTCTGCTAT-3'

**Primer B (sense):** 5'-TAGGCATGCTGGGTCTTTAT-3'

**Primer C ( antisense):** 5'-CCGCTGAGAACCTACAAACA-3

### PCR CONDITIONS:

- 1) 94.0, 3:00 min
  - 2) 94.0, 0:30 min
  - 3) 55.0, 0:40 min
  - 4) 72.0, 0:50 min
  - 5) GO TO 2, for 30 cycles
  - 6) 72.0, 5:00 min
  - 7) 20.0, 1:00 min
- END

**PCR PRODUCT:** Wild-type band: 283bp  
Floxed band: 344bp  
Defloxed band: 587bp