# Breyer Lab floxed EP4 PCR protocol

### EP<sub>4</sub> oligos:

• **EP<sub>4</sub>flox.a** mer: 23

sequence: TCT GTG AAG CGA GTC CTT AGG CT

• **EP**<sub>4</sub>**flox.s** mer: 24

sequence: GTT AGA TGG GGG GAG GGG ACA ACT

#### For master mix (per DNA sample to be run):

• 23.2 µl Invitrogen Platinum PCR mix (catalog #11306-016)

- 0.5 µl oligo EP<sub>4</sub>flox.a (at 20 µM concentration)
- 0.5 µl oligo EP<sub>4</sub>flox.s (at 20 µM concentration)

Add 24.2 µl master mix to each PCR reaction tube. Then add 0.8 µl of each DNA sample to PCR reaction tubes.

## PCR cycle is as follows (run in a Perkin Elmer 9600):

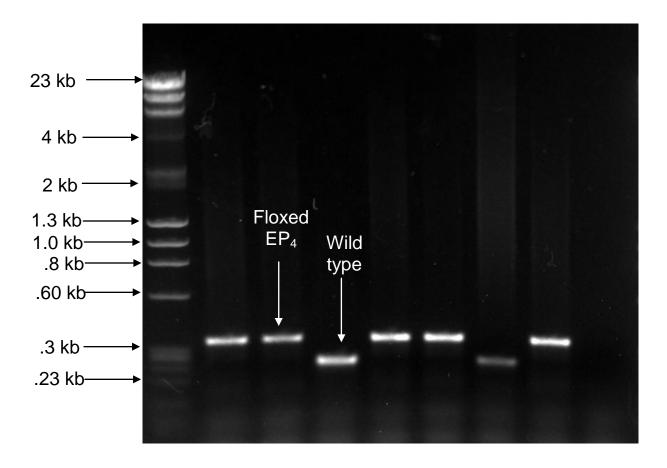
- Hold at 94°C for 3 minutes
- Cycle 35 times:

94°C for 15 seconds 57.4°C for 15 seconds 72°C for 30 seconds

- Hold at 72°C for 10 minutes
- Hold at 4°C ∞

#### **Analyzing the reactions:**

- Reactions are analyzed on a 1% agarose gel (1g regular agarose dissolved in 100mL 1X TAE) with 10µl GelRed™ Nucleic Acid Gel Stain (Biotium, catalog #41000).
- Expected sizes are 243 bp for wild type & 344 bp for floxEP<sub>4</sub>.
- See sample gel on following page:



Expected sizes: Floxed EP4= **344 bp** Wild type= **243 bp**