

## Genotyping of Urokinase Plasminogen Activator Receptor (uPAR) Deficient Mice By PCR

**Purpose:** To identify the uPAR deficient mouse gene from the wild type gene.

**Gene Information:** Gene encoding murine uPAR is organized into 7 exons. Exon 1 encodes the signal peptide. The neocassette is inserted between Exon 2 and Exon 5 resulting in a mutated uPAR allele.

### Primers:

uPAR sense = TATTACCAGTGAATCTTTGTCAGCAGTTCCC

uPAR antisense = AGAGCTCCGGGTTCTCTCTC

uPAR neo = GGGAGGAAGGAACTCCACTC

### PCR:

Reaction

1. Genomic DNA (1 $\mu$ l)
2. Promega PCR Master Mix (2x; 10  $\mu$ l)
3. Primers (100 pmol; 0.3 $\mu$ l each)
4. Taq (0.3 $\mu$ l)
5. PCR water 7.5 $\mu$ l ( final reaction volume-20  $\mu$ l)

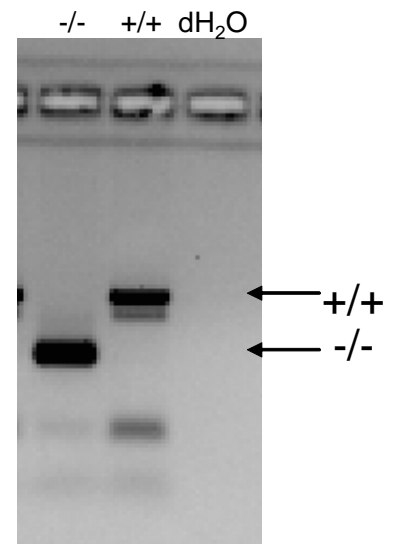
Program

1. 1 cycle - 94 °C for 3 min
2. 35 cycles- 94 °C for 30 sec, 68 °C for 45 sec, 72 °C for 45 sec
2. 1 cycle - 72 °C for 2 min
3. Hold at 4 °C

### Expected bands on TBE agarose gel electrophoresis:

uPAR +/+ = 398 bp

UPAR -/- = 200 bp



File name: \adlab\protocol\mouse\uPAR PCR screen.wpd

Date of last update: 11-20-06

Person updating: DR

