

RBRC 01389

**Strain name** Human AhR knock in mouse

[illegible]

## Reaction Components

Enzyme TOYOBO KOD FX (Code.No : KFX-101)

### Reaction Conditions

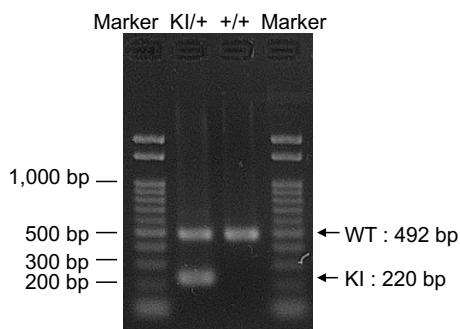
| step | temp<br>(°C) | time<br>(sec) | note |
|------|--------------|---------------|------|
|------|--------------|---------------|------|

[illegible]

| <b>Reagent</b>   | <b>Conc</b> | <b>Reaction 1</b> | <b>2</b> | <b>3</b> | <b>4</b> |         |
|------------------|-------------|-------------------|----------|----------|----------|---------|
| H <sub>2</sub> O |             | 1.8               |          |          |          | (μL)    |
| PCR buffer       | 2 X         | 10.0              |          |          |          |         |
| dNTP             | 2.0 mM      | 4.0               |          |          |          |         |
| primer 1         | 10 pmol/μl  | 1.0               |          |          |          |         |
| primer 2         | 10 pmol/μl  | 1.0               |          |          |          |         |
| primer 3         | 10 pmol/μl  | 1.0               |          |          |          |         |
| DNA              |             | 1.0               |          |          |          |         |
| Taq              | 1 U/μl      | 0.2               |          |          |          |         |
|                  |             |                   |          |          |          |         |
|                  |             |                   |          |          |          |         |
|                  |             |                   |          |          |          |         |
|                  |             |                   |          |          |          | Martini |
|                  |             |                   |          |          |          | Gelatin |
|                  |             |                   |          |          |          |         |
| <b>total</b>     |             | 20                |          |          |          |         |

**Marker** Gene Ladder 100 (Wako, Cat. 316-06951)

|            |                                       |
|------------|---------------------------------------|
| <b>Gel</b> | 2% agarose in 1 X TAE (100 V, 30 min) |
|------------|---------------------------------------|



| primer_set |          | product_size | product (allele type) |                                       |
|------------|----------|--------------|-----------------------|---------------------------------------|
| primer 1   | primer 2 | 220 bp       | KI                    | KI/+ : 492 bp, 220 bp<br>+/+ : 492 bp |
| primer 1   | primer 3 | 492 bp       | WT                    |                                       |
|            |          |              |                       |                                       |
|            |          |              |                       |                                       |
|            |          |              |                       |                                       |

**Comment** Standard PCR

Novagen KOD Xtreme™ Hot Start DNA Polymerase can be purchased from EMD.

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## Reaction Components

|        |                                                |
|--------|------------------------------------------------|
| Enzyme | TaKaRa LA Tag with GC buffer (Cat. No. RR02AG) |
|--------|------------------------------------------------|

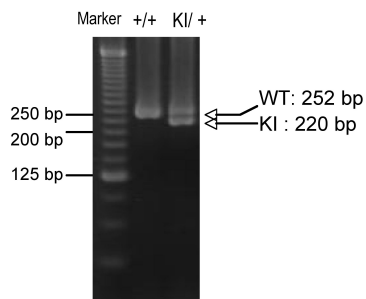
### Reaction Conditions

| step | temp<br>(°C) | time<br>(sec) | note |
|------|--------------|---------------|------|
|------|--------------|---------------|------|

[illegible][illegible]

|               |                                               |
|---------------|-----------------------------------------------|
| <b>Marker</b> | 25 bp DNA ladder (Invitrogen, Cat. 10597-011) |
|---------------|-----------------------------------------------|

|            |                                         |
|------------|-----------------------------------------|
| <b>Gel</b> | 4% Nusieve in 0.5 X TBE (100 V, 55 min) |
|------------|-----------------------------------------|



| primer_set |          | product_size | product (allele type) |
|------------|----------|--------------|-----------------------|
| primer 1   | primer 2 | 220 bp       | KI                    |
| primer 1   | primer 3 | 252 bp       | WT                    |
|            |          |              |                       |
|            |          |              |                       |
|            |          |              |                       |
|            |          |              |                       |

**Comment** Standard PCR