

# PCR protocol

RBRC 01710

Strain name AhR(C57BL6j)-/- mouse

| Primer | primer_name | primer_seq               | length |
|--------|-------------|--------------------------|--------|
| 1      | lac Z       | gCggATTgACCgTAATgggATAgg | 24     |
| 2      | AhR KO5'    | cgcgggcaccatgagcagcgg    | 21     |
| 3      | AhR KO3'    | taaagctcacggcagcgagatc   | 23     |
|        |             |                          |        |
|        |             |                          |        |
|        |             |                          |        |
|        |             |                          |        |
|        |             |                          |        |
|        |             |                          |        |

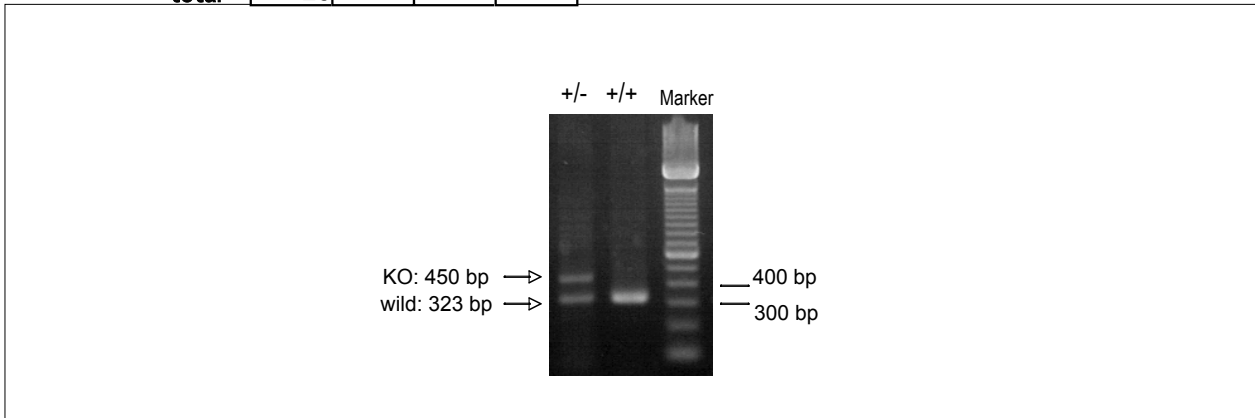
## Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

## Reaction Conditions

| Conc       | Run 1 | Run 2 | Run 3 | Run 4 |
|------------|-------|-------|-------|-------|
| H2O        | 16.3  |       |       |       |
| PCR buffer | 2.5   |       |       |       |
| dNTP       | 2.0   |       |       |       |
| primer 1   | 1.0   |       |       |       |
| primer 2   | 1.0   |       |       |       |
| primer 3   | 1.0   |       |       |       |
| DNA        | 1.0   |       |       |       |
| Taq        | 0.2   |       |       |       |
|            |       |       |       |       |
|            |       |       |       |       |
|            |       |       |       |       |
|            |       |       |       |       |
|            |       |       |       |       |
| total      | 25    |       |       |       |

| step | temp (°C) | time (sec) | note                  |
|------|-----------|------------|-----------------------|
| 1    | 94        | 180        |                       |
| 2    | 94        | 30*        |                       |
| 3    | 62        | 30*        |                       |
| 4    | 72        | 60*        | *Repeat for 30 cycles |
| 5    | 72        | 300        |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |



## Marker

100 bp ladder (Invitrogen, Cat. 15628-050)

## Gel

2% agarose in 1 X TAE (100 V, 30 min)

## PCR products

| primer_set        | product_size | product |
|-------------------|--------------|---------|
| primer 2 primer 3 | 323 bp       | wild    |
| primer 1 primer 2 | 450 bp       | KO      |
|                   |              |         |
|                   |              |         |
|                   |              |         |

## Comment