

# PCR protocol

RBRC 02433

Strain name B6;129P2-Dmrtc7<sup><tm1 (cre)Knis></sup>

| Primer | primer_name | primer_seq                     | length |                    |
|--------|-------------|--------------------------------|--------|--------------------|
| 1      |             | CTCCCCCTGAACCGTAAACTCAC        | 23     | Depositor's primer |
| 2      |             | TAAGTGTCCCGACCCACCACTC         | 22     | Depositor's primer |
| 3      | Cre-R       | AAATCCATCGCTCGACCAGTTTAGTTACCC | 30     | Depositor's primer |
|        |             |                                |        |                    |
|        |             |                                |        |                    |
|        |             |                                |        |                    |
|        |             |                                |        |                    |
|        |             |                                |        |                    |
|        |             |                                |        |                    |
|        |             |                                |        |                    |

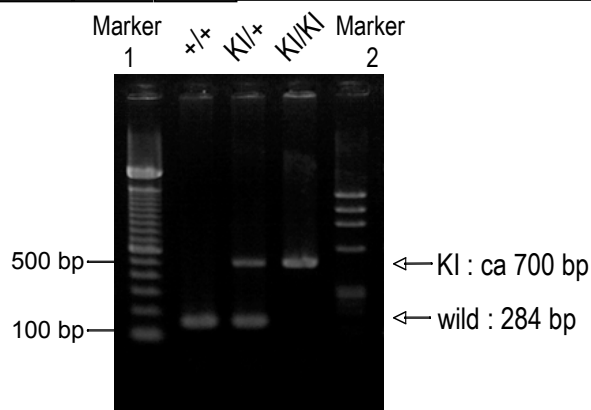
## Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

## Reaction Conditions

|            | Conc             | Run 1 | Run 2 | Run 3 | Run 4 |
|------------|------------------|-------|-------|-------|-------|
| H2O        |                  | 16.3  |       |       |       |
| PCR buffer | 10 X             | 2.5   |       |       |       |
| dNTP       | 2.5 mM           | 2.0   |       |       |       |
| primer 1   | 10 pmol/ $\mu$ l | 1.0   |       |       |       |
| primer 2   | 10 pmol/ $\mu$ l | 1.0   |       |       |       |
| primer 3   | 10 pmol/ $\mu$ l | 1.0   |       |       |       |
| DNA        |                  | 1.0   |       |       |       |
| Taq        |                  | 0.2   |       |       |       |
|            |                  |       |       |       |       |
|            |                  |       |       |       |       |
|            |                  |       |       |       |       |
|            |                  |       |       |       |       |
|            |                  |       |       |       |       |
| total      |                  | 25    |       |       |       |

| step | temp (°C) | time (sec) | note                  |
|------|-----------|------------|-----------------------|
| 1    | 94        | 180        |                       |
| 2    | 94        | 30*        |                       |
| 3    | 65        | 30*        |                       |
| 4    | 72        | 60*        | *Repeat for 30 cycles |
| 5    | 72        | 300        |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |
|      |           |            |                       |



## Marker

marker 1: 100 bp ladder (Invitrogen, Cat. 15628-050), marker 2:  $\phi$ X174 Hae III

## Gel

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

## PCR products

| primer_set | product_size | product |
|------------|--------------|---------|
| primer 1   | 284 bp       | WT      |
| primer 2   | ca 700 bp    | KO      |
|            |              |         |
|            |              |         |
|            |              |         |

Comment