# PCR protocol

Sheet ID PS_05539
Release date : 12/02/2013
Print date : 1/23/2014

RBRC 05559 Strain name 129S6;B6C3-Tg(Crx-cre/ERT2)1Tfur

| Primer | primer_name | primer_seq | length | | |
|---|---|---|---|---|---|
| 1 | Crx prom-3 | GCTGAAGCTGGAGGAATACCCTTTAGAC | 28 | | Depositor's primer |
| 2 | LCB837 (Cre2) | AGCATTGCTGTCACTTGGTC | 20 | | Depositor's primer |
| 3 | oIMR0042 | CTAGGCCACAGAATTGAAAGATCT | 24 | | JAX Genotyping Protocol |
| 4 | oIMR0043 | GTAGGTGGAAATTCTAGCATCATCC | 25 | | JAX Genotyping Protocol |
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## Reaction Components

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

| | Conc | Run 1 | Run 2 | Run 3 | Run 4 |
|---|---|---|---|---|---|
| H2O | | 0.8 | | | |
| 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 | | | |
| primer 4 | 10 pmol/μl | 1.0 | | | |
| DNA | | 1.0 | | | |
| Taq | 1 U/μl | 0.2 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | total | 20 | | | |

## Reaction Conditions

| step | temp (℃) | time (sec) | note |
|---|---|---|---|
| 1 | 94 | 120 | |
| 2 | 98 | 10 | * |
| 3 | 60 | 30 | * |
| 4 | 68 | 60 | * *Repeat for 30 cycles |
| | | | |
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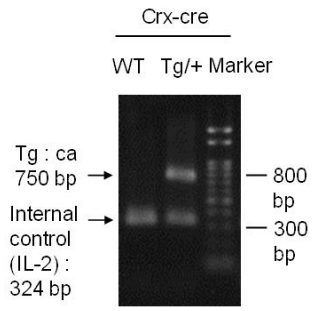



## Marker

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

## Gel

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

## PCR products

| primer_set | | product_size | product |
|---|---|---|---|
| primer 1 | primer 2 | ca 750 bp | Tg |
| primer 3 | primer 4 | 324 bp | Internal control (IL-2) |
| | | | |
| | | | |
| | | | |

## Comment

# PCR protocol

Sheet ID PS_05631
Release date : 1/23/2014
Print date : 1/23/2014

RBRC 05559 Strain name B6.Cg-Tg(Crx-cre/ERT2)1Tfur

| Primer | primer_name | primer_seq | length | | |
|---|---|---|---|---|---|
| 1 | | CAGACGGTGCCCTTCCCCCAGCCA | 24 | | Depositor's primer |
| 2 | | CCTGGCGATCCCTGAACATGTCCA | 24 | | Depositor's primer |
| 3 | mLC3ex3GT | TGAGCGAGCTCATCAAGATAATCAGGT | 27 | | Mol. Biol. Cell., 15, 1101-1111(2004). |
| 4 | mLC3ex4AG | GTTAGCATTGAGCTGCAAGCGCCGTCT | 27 | | Mol. Biol. Cell., 15, 1101-1111(2004). |

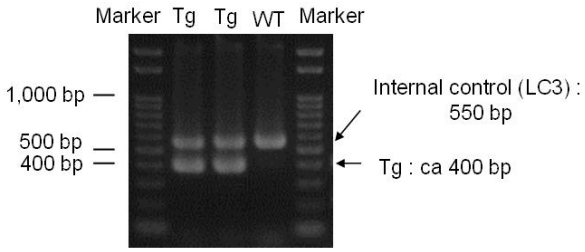
## Reaction Components

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

| | Conc | Run 1 | Run 2 | Run 3 | Run 4 |
|---|---|---|---|---|---|
| H2O | | 0.8 | | | |
| 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 | | | |
| primer 4 | 10 pmol/μl | 1.0 | | | |
| DNA | | 1.0 | | | |
| Taq | 1 U/μl | 0.2 | | | |
| | total | 20 | | | |

## Reaction Conditions

| step | temp (℃) | time (sec) | note |
|---|---|---|---|
| 1 | 94 | 120 | |
| 2 | 98 | 10 | * |
| 3 | 60 | 30 | * |
| 4 | 68 | 60 | * *Repeat for 30 cycles |




**Marker**

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

**Gel**

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

**PCR products**

| primer_set | | product_size | product |
|---|---|---|---|
| primer 1 | primer 2 | ca 400 bp | Tg |
| primer 3 | primer 4 | 550 bp | Internal control (LC3) |

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