

RBRC 09871

Strain name B6;B6129-Cbx8&lt;tm1.1Hko&gt;

[illegible]

## Reaction Components

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

### Reaction Conditions

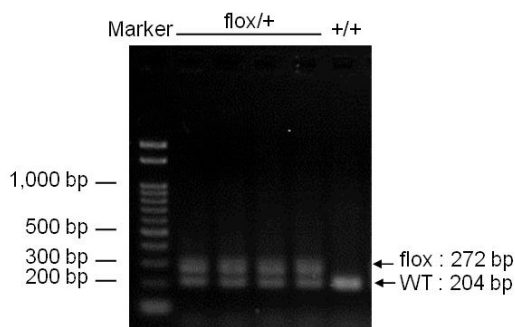
| step | temp<br>(°C) | time<br>(sec) | note |
|------|--------------|---------------|------|
|------|--------------|---------------|------|

[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 |
|                  |             |                   |          |          |          |         |
|                  |             |                   |          |          |          | Gel     |
|                  |             |                   |          |          |          |         |
| <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 | 204 bp       | WT                                 | + / + : 204 bp                           |
| primer 1   | primer 2 | 272 bp       | flox                               | flox / + : 204 bp, 272 bp                |
| primer 2   | primer 3 | 218 bp       | null (After cre mediated excision) | Please use primer 1 and primer 2 for     |
|            |          |              |                                    | routine genotyping for wild-type or flox |
|            |          |              |                                    | allele. Please add the primer 3 for      |
|            |          |              |                                    | genotyping of Cbx8 null allele after cre |
|            |          |              |                                    | excision.                                |

**Comment** Standard PCR

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