# PCR protocol

Sheet ID PS_04502
Release date : 11/5/2012
Print date : 11/5/2012

RBRC 04905 Strain name C;129P2(Cg)-Cxcr4<tm1Yiw> Tg(Lck-cre)1Jtak

| Primer | primer_name | primer_seq | length | | |
|---|---|---|---|---|---|
| 1 | Cxcr4_RV | GAGCAAATAGCACTCCCCTACTTCAC | 26 | | RIKEN BRC |
| 2 | flox ES.7 | GACCTGGGTATGATGGGCAACGGTG | 25 | | Depositor's primer |
| 3 | LCK-3 | GGCGGCAGGAAGTGGGTAACTAGACTAACA | 30 | | Depositor's primer |
| 4 | Cre 3 | GCTAACCAGCGTTTTCGTTCTGC | 23 | | Depositor's primer |

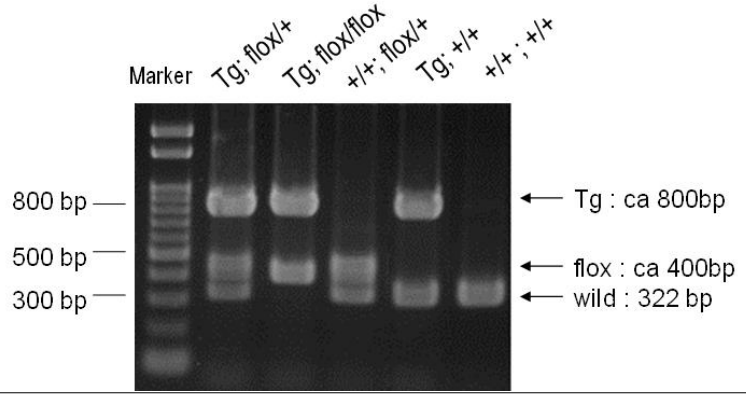
## Reaction Components

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 | 322 bp | WT |
| primer 1 | primer 2 | ca 400 bp | flox |
| primer 3 | primer 4 | ca 800 bp | Tg |

**Comment**