# PCR protocol

Sheet ID PS_04126
Release date : 09/24/2012
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**RBRC** 04888 **Strain name** B6.Cg-Cacna1a<tm2.1(CACNA1A)Ttan>

| Primer | primer_name | primer_seq | length | | |
|---|---|---|---|---|---|
| 1 | mBI-F1 | GGATGTACAAGCAGTCGATG | 20 | | Depositor's primer |
| 2 | mBI-R2 | ATCAGCCCCCAGGTCTCTTT | 20 | | Depositor's primer |
| 3 | hs1A-R1 | TGCTTGTACATCCTTTGCGC | 20 | | Depositor's primer |

**Reaction Components**

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

| | Conc | Run 1 | Run 2 | Run 3 | Run 4 |
|---|---|---|---|---|---|
| H2O | | 1.8 | | | |
| 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 | | | |
| 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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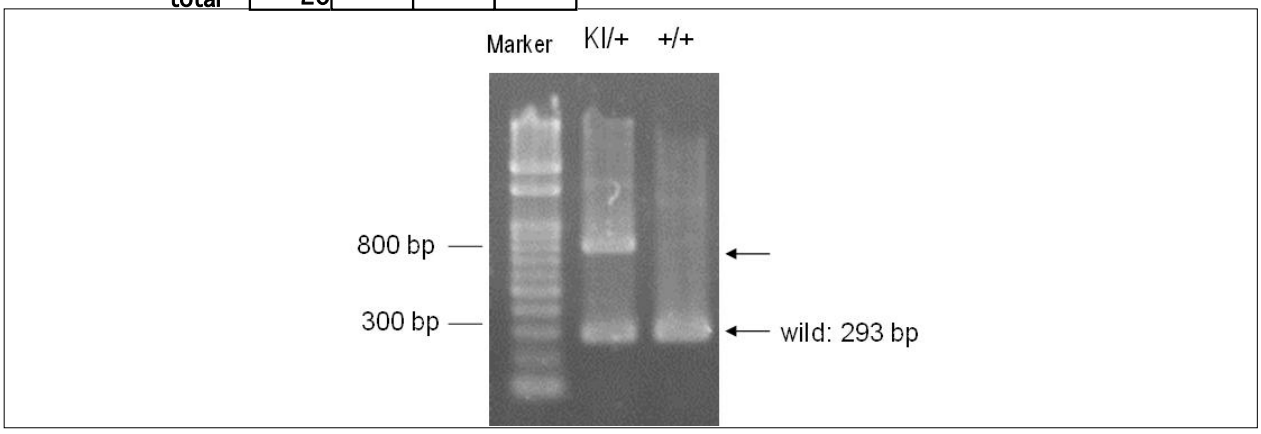


**Marker**

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 | 293 bp | WT |
| primer 1 | primer 3 | ca 800 bp | KI |
| | | | |
| | | | |
| | | | |

**Comment**