# PCR protocol

Sheet ID PS_05201
Release date : 7/31/2014
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**RBRC** 05852 **Strain name** C.B6-a/a B/B Kit<W-sh>

| Primer | primer_name | primer_seq | length | | |
|---|---|---|---|---|---|
| 1 | sh for | AGGCTTGCAGCGCATTAT | 18 | | Depositor's primer |
| 2 | Sh | GAGGATTCATAGTTGTTCAATGTCC | 25 | | Am. J. Pathol., 173, 6, 1693-1701(2008). |
| 3 | wt for | TTTGCACGTGTAGTTACAC | 19 | | 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 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 | 55 | 30 | * |
| 4 | 68 | 60 | * *Repeat for 30 cycles |
| | | | |
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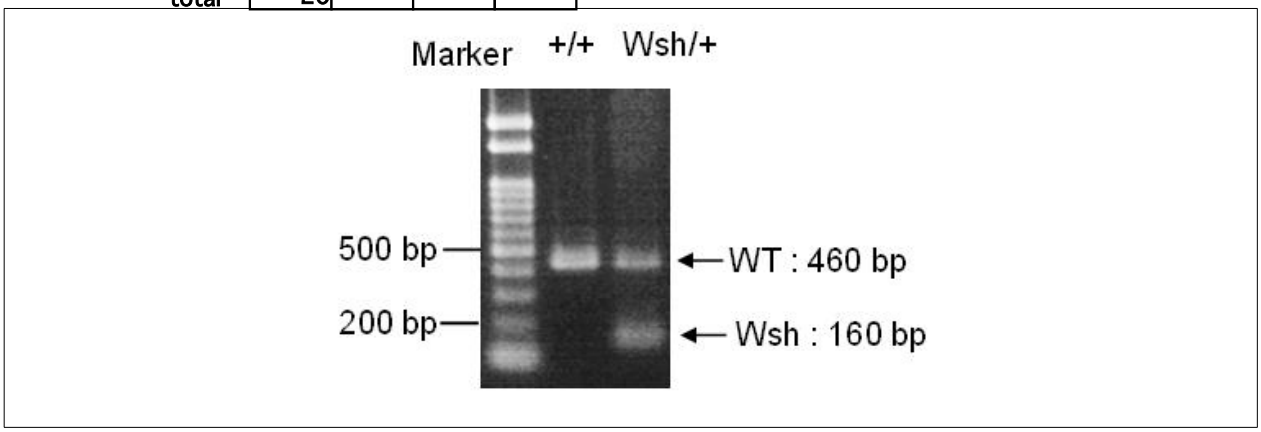


**Marker**

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 3 | 160 bp | Wsh |
| primer 2 | primer 3 | 460 bp | WT |
| | | | |
| | | | |
| | | | |

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