# PCR protocol

**RBRC** 00804 **Strain name** S100b-KO

**Primer**

| | primer_name | primer_seq | length | | |
|---|---|---|---|---|---|
| 1 | GTF1 | GAGACGCTGGACGAAGATGG | 20 | | Proc. Natl. Acad. Sci. USA, 99, 4037-4042 (2002). |
| 2 | GTF2 | CTTGACGAGTTCTTCTGAGG | 20 | | Proc. Natl. Acad. Sci. USA, 99, 4037-4042 (2002). |
| 3 | SR1 | CTGGGAAGGGTTGGGGTTTCA | 21 | | Proc. Natl. Acad. Sci. USA, 99, 4037-4042 (2002). |

**Reaction Components**

**Enzyme** Roche Taq (Cat. No. BM1418432)

| | Conc | Run 1 | Run 2 | Run 3 | Run 4 |
|---|---|---|---|---|---|
| H2O | | 16.3 | | | |
| PCR buffer | 10 X | 2.5 | | | |
| dNTP | 2.5 mM | 2.0 | | | |
| 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 | | 0.2 | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | total | 25 | | | |

**Reaction Conditions**

| step | temp (℃) | time (sec) | note |
|---|---|---|---|
| 1 | 94 | 180 | |
| 2 | 94 | 30* | |
| 3 | 55 | 30* | |
| 4 | 72 | 30* | *Repeat for 35 cycles |
| 5 | 72 | 300 | |
| | | | |
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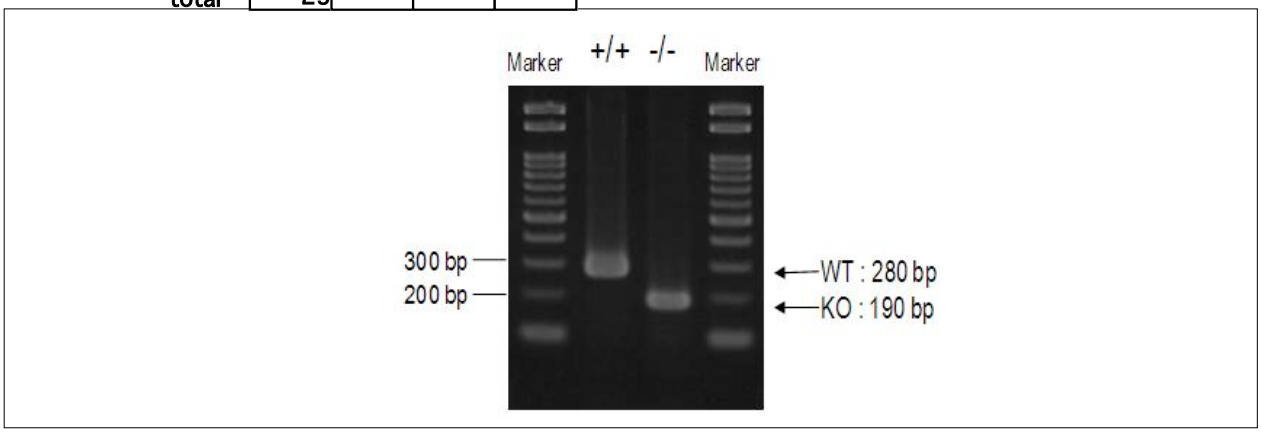


**Marker**

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 2 | primer 3 | 190 bp | KO |
| primer 1 | primer 3 | 280 bp | WT |
| | | | |
| | | | |
| | | | |

**Comment**