# PCR protocol

Sheet ID PS_08294
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**RBRC** 11532 **Strain name** IL6 delt-39 kbp KO_Line2

| Primer | primer_name | primer_seq | length | | Reference |
|---|---|---|---|---|---|
| 1 | Il6 -39k F1 | ATACGCCAGTGCAGCAATAGTGG | 23 | | Depositor's primer |
| 2 | Il6 -39k R2 | AGCCTCCAGCTCTGGTCATTAG | 22 | | Depositor's primer |

**Reaction Components**

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

| Reagent | Conc | Reaction 1 | 2 | 3 | 4 | |
|---|---|---|---|---|---|---|
| H2O | | 2.8 | | | | (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 | | | | |
| DNA | | 1.0 | | | | |
| Taq | 1 U/μl | 0.2 | | | | |
| | | | | | | |
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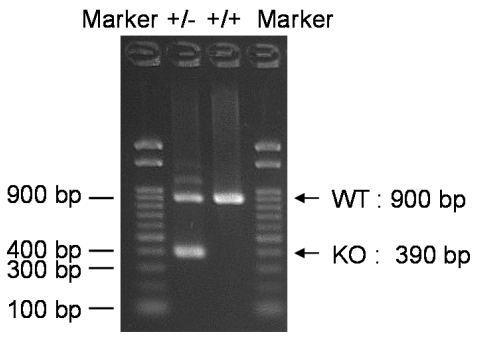
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | total | 20 | | | | |

**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)




| primer_set | | product_size | product (allele type) | |
|---|---|---|---|---|
| primer 1 | primer 2 | 900 bp | WT | +/+ (wild-type): 900 bp<br>+/- (heterozygous): 900 bp and 390 bp |
| primer 1 | primer 2 | 390 bp | KO | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Comment** Standard PCR

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