# RIKEN BRC

Jan. 13, 2006

**BRC_No** 00990 **Strain name** GAD67ノックアウトマウス

**Primer**

| | primer_name | primer_seq | length | |
|---|---|---|---|---|
| 1 | TR-1b | GGCACAGCTCTCCCTTCTGTTTGC | 24 | |
| 2 | TR-2 | CATCGTAACCGTGCATCTGCCAGT | 24 | lacZ |
| 3 | TR-3 | GCTCTCCTTTCGCGTTCCGACAG | 23 | |

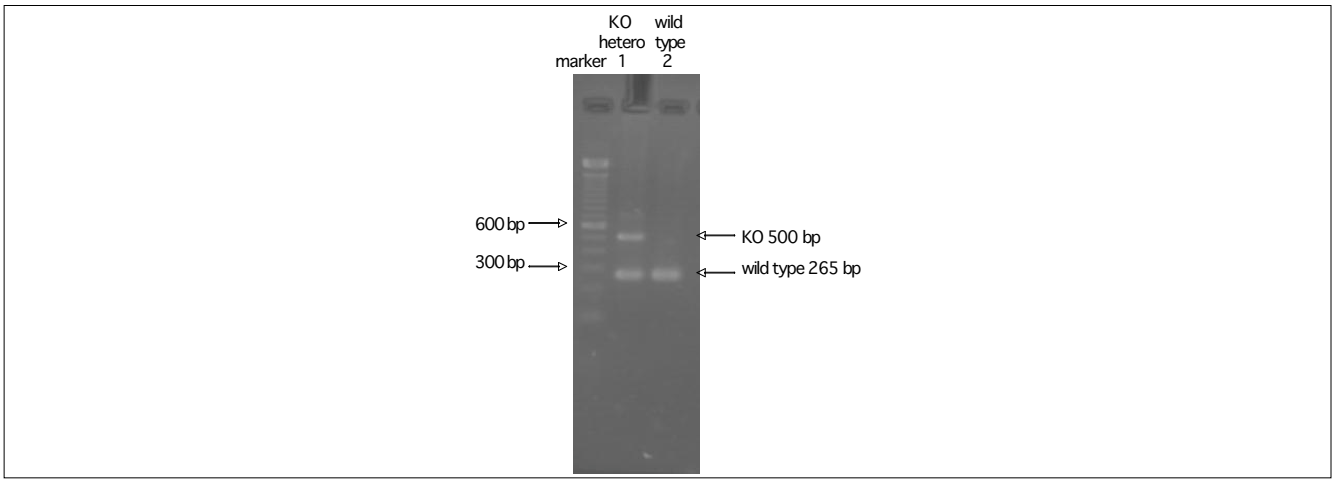
**Reaction Components**

**Enzyme** TaKaRa LA Taq

| | Conc | Run 1 | Run 2 | Run 3 |
|---|---|---|---|---|
| H2O | | 3.8 | | |
| PCR buffer | 10 X | 10.0 | | |
| 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 | 20 | |

**Reaction Conditions**

| step | temp (℃) | time (sec) | note |
|---|---|---|---|
| 1 | 94 | 180 | |
| 2 | 94 | 30 | * |
| 3 | 68 | 180 | * *Repeat for 30 cycles |
| 4 | 72 | 300 | |




**Marker**

100 bp ladder (Invitrogen, Cat. 15628-050)

**Gel**

2% agarose in 1 X TAE (100 V, 30 min)

**PCR products**

| primer_set | | product_size | product |
|---|---|---|---|
| primer 1 | primer 3 | 265 bp | wild |
| primer 1 | primer 2 | 500 bp | KO |
| | | | |
| | | | |

**Comment**