# PCR protocol

RBRC 01928 Strain name B6;129-Bnip1<tm1>

| Primer | primer_name | primer_seq | length | | |
|---|---|---|---|---|---|
| 1 | BNIP1 geo F | AAGGGCTTTGTACATACGAGGCAAG | 25 | chr.17 | |
| 2 | BNIP1 geo R | ATTGTCGAGAAGCTTCCATGGATCG | 25 | | |
| 3 | BNIP1 WT R | CAGTCAGTGTGGCTAAAGATGTGTG | 25 | chr.17 | |

## Reaction Components

Enzyme: Roche Taq (Cat. No. BM1418432)

| | Conc | Run 1 | Run 2 | Run 3 | Run 4 |
|---|---|---|---|---|---|
| H2O | | 17.3 | 17.3 | | |
| PCR buffer | 10 X | 2.5 | 2.5 | | |
| dNTP | 2.5 mM | 2.0 | 2.0 | | |
| primer 1 | 10 pmol/μl | 1.0 | 1.0 | | |
| primer 2 | 10 pmol/μl | 1.0 | 0 | | |
| primer 3 | 10 pmol/μl | 0 | 1.0 | | |
| DNA | | 1.0 | 1.0 | | |
| Taq | | 0.2 | 0.2 | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| | total | 25 | 25 | | |

## Reaction Conditions

| step | temp (℃) | time (sec) | note |
|---|---|---|---|
| 1 | 94 | 180 | |
| 2 | 94 | 30* | |
| 3 | 60 | 30* | |
| 4 | 72 | 60* | *Repeat for 35 cycles |
| 5 | 72 | 300 | |
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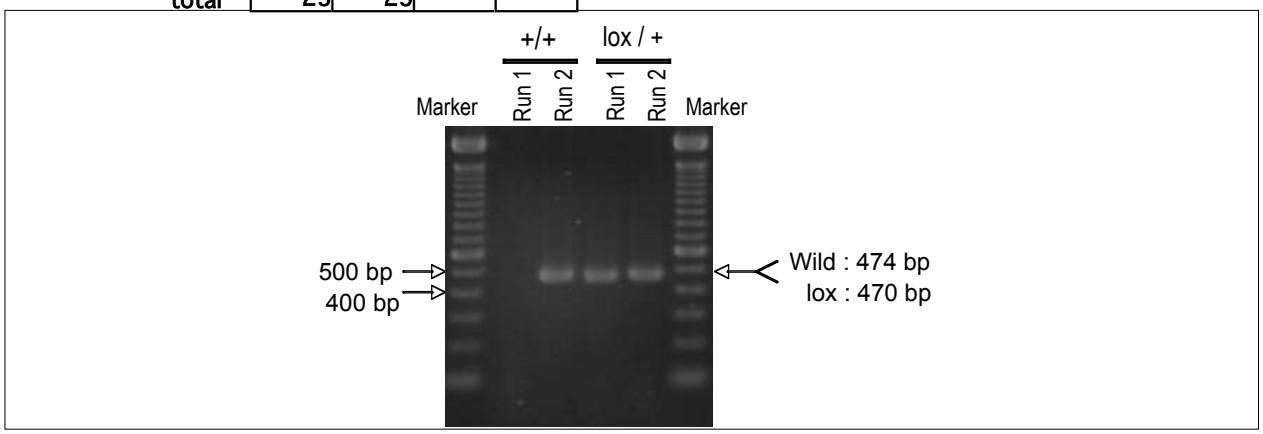


## Marker

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 2 | 470 bp | loxP |
| primer 1 | primer 3 | 474 bp | WT |
| | | | |
| | | | |
| | | | |

## Comment