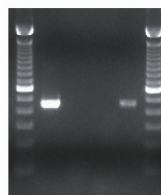


Ple47 Promoter PCR (pEMS1152)

MiniPromoter: Ple47
pEMS#: 1152
Expected product size (bp): 459

| Reaction components | Vol/Rxn (µl) |
|---------------------------|--------------|
| H ₂ O | 15.15 |
| 10X PCR buffer* | 2.5 |
| 50 mM MgCl ₂ * | 0.75 |
| 2.5 mM dNTPs** | 2 |
| 10 µM oEMS3045 | 1.25 |
| 10 µM oEMS3037 | 1.25 |
| Taq Pol. (5 U/µl)* | 0.1 |
| DNA*** | 2 |
| Total Volume of Rxn: | 25 |

L 1 2 3 4 L

L - 100 bp Ladder
1 - Control Plasmid DNA (pEMS1152)
2- WT mouse DNA
3 - No Template
4- Transgenic Mouse DNA
Expected band size = 459 bp

* Taq Polymerase set from Invitrogen (Cat no.18038-042)

** dNTPs from Invitrogen (Cat no.10297-018)

***Approximately 100 ng DNA used for samples, approximately 5 ng used for plasmid control

Samples run on a 2% agarose gel (containing SYBRsafe (Invitrogen Cat no. S33102))

| Cycling conditions: | Step | Temp | Time | Note |
|---------------------|------|------|--------|---------------------------|
| | 1 | 94°C | 3 min | |
| | 2 | 94°C | 1 min | |
| | 3 | 61°C | 1 min | |
| | 4 | 72°C | 45 sec | repeat steps 2-4 34 times |
| | 5 | 72°C | 5 min | |
| | 6 | 4°C | hold | |

Primers:

| Name | Sequence | T _m (°C) | Notes |
|------|-------------------------------|---------------------|---|
| 3045 | 5'- TCACAGTTTGGGCACTGCAGA -3' | 56.5 | Sense primer for Ple47 in region "7". |
| 3037 | 5'- TCAAAGTGCAGTCCCAGGCA -3' | 56.4 | Anti-Sense primer for Ple47 in region "Prom". |