

**Ple79 Promoter PCR (pEMS1433)****Peiades Promoter Project**

**MiniPromoter:** Ple79  
**pEMS#:** 1433  
**Expected product size (bp):** 327

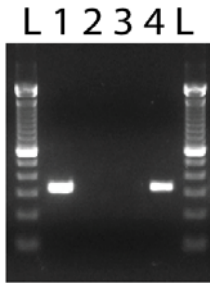
Reaction components	Vol/Rxn (µl)
H <sub>2</sub> O	15.15
10X PCR buffer*	2.5
50 mM MgCl <sub>2</sub> *	0.75
2.5 mM dNTPs**	2
10 µM oEMS2316	1.25
10 µM oEMS2308	1.25
Taq Pol. (5 U/µl)*	0.1
DNA***	2
Total Volume of Rxn:	25

\* 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))



L - 100bp Ladder

1 - Control Plasmid DNA (pEMS1433)

2 - WT mouse DNA

3 - No Template

4 - Transgenic mouse DNA

Expected band size = 327bp

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	Tm (°C)	Notes
2316	5'-ATGTGTCTTCCAACAGGTGAATACG-3'	56.0	Sense primer for region "4" of Ple79
2308	5'-TGTTCCAATAGGCTCAGCGTTTAT-3'	56.1	Anti-sense primer for region "Prom" of Ple79