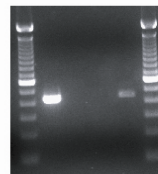


**Ple135 Promoter PCR (pEMS1351)**

**MiniPromoter:** Ple135  
**pEMS#:** 1351  
**Expected product size (bp):** 455

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 oEMS2364	1.25
10 µM oEMS2493	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 (pEMS1351)  
2- WT mouse DNA  
3 - No Template  
4- Transgenic Mouse DNA  
Expected band size = 455 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 <sub>m</sub> (°C)	Notes
2364	5'- GCGTATCACGAGGCCCTTTC -3'	56.0	Sense primer for 5' end of pEMS1302 insert region
2493	5'- GCGATGATCCCCGATCTCTAAG -3'	56.5	Anti-Sense primer for Ple135 in region "6-7".