PCR protocol

Sheet ID PS_05288
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RBRC 04196 **Strain name** B6(D2)-Pla2g6<m1Sein>

Primer	primer_name	primer_seq	length		
1	mPla2g6-WT-F	GTCAAAGCCCTCATTGTATTCGG	23		
2	mPla2g6-346R	CTCTGCTTGTTCTGCTGCTG	20		
3	mPla2g6-Mut-F	GTCAAAGCCCTCATTGTATTCAG	23		
4	mPla2g6-617R	GGAGGGTCGGGTCCTATTTA	20		

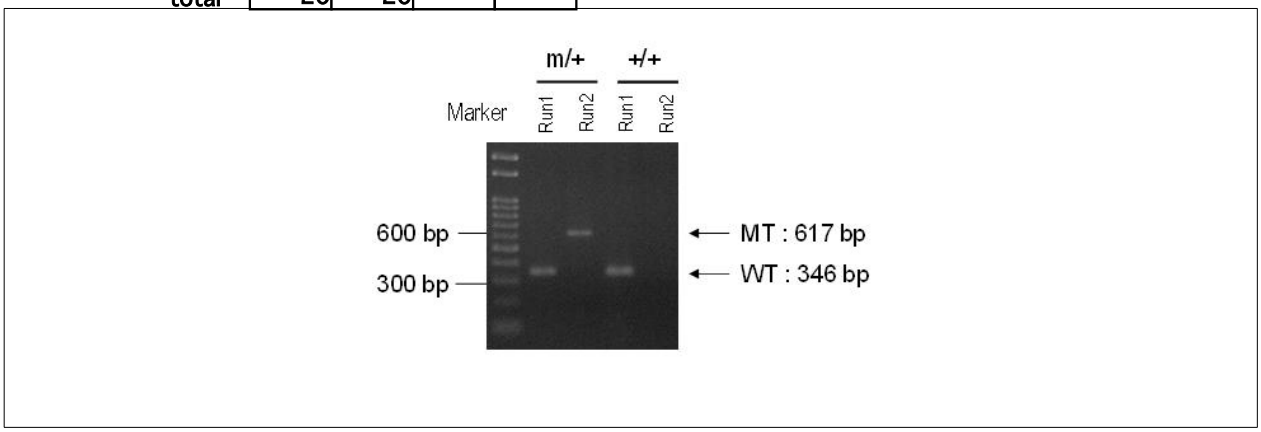
Reaction Components

Enzyme Roche Taq (Cat. No. BM1418432)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		13.3	13.3		
PCR buffer	10 X	2.0	2.0		
dNTP	2.5 mM	1.6	1.6		
primer 1	10 pmol/μl	1.0	0		
primer 2	10 pmol/μl	1.0	0		
primer 3	10 pmol/μl	0	1.0		
primer 4	10 pmol/μl	0	1.0		
DNA		1.0	1.0		
Taq	5U/μl	0.1	0.1		
	total	20	20		

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30	*
3	63	30	*
4	72	60	* *Repeat for 35 cycles
5	72	300	



Marker

Gene Ladder 100 (Wako, Cat. 316-06951)

Gel

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

PCR products

primer_set		product_size	product
primer 1	primer 2	346 bp	WT
primer 3	primer 4	617 bp	mutant

Comment