PCR protocol

RBRC GSC0080 **Strain name** M100451

Primer	primer_name	primer_seq	length		
1		CAACTTCAAGGACATGGGCT	20		Depositor's primer
2		CTGAATGACTGCGTGGTTTG	20		Depositor's primer
3		CAACTTCAAGGACATGGGCA	20		Depositor's primer
4		TGAAAGAGTCAAAGTCTTTTTTTAATC	27		Depositor's primer
5		AAAAAGAATTATATTTTGAAAAGACCG	27		Depositor's primer

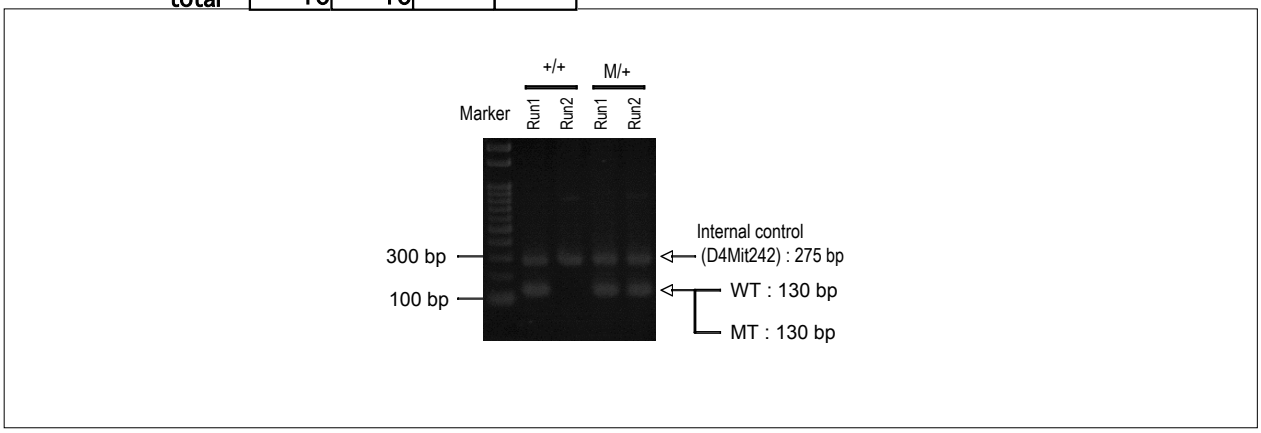
Reaction Components

Enzyme QIAGEN Multiplex PCR Kit (Cat. No. 206143)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		0	0		
Master Mix	2 X	5.0	5.0		
primer 1	10 pmol/μl	1.0	0		
primer 2	10 pmol/μl	1.0	1.0		
primer 3	10 pmol/μl	0	1.0		
primer 4	10 pmol/μl	1.0	1.0		
primer 5	10 pmol/μl	1.0	1.0		
DNA		1.0	1.0		
	total	10	10		

Reaction Conditions

step	temp (℃)	time (sec)		note
1	95	900		
2	94	30	*	
3	60	90	*	
4	72	90	*	*Repeat for 30 cycles
5	72	600		



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	130 bp	WT
primer 3	primer 2	130 bp	mutant
primer 4	primer 5	275 bp	Internal control

Comment