PCR protocol

Sheet ID PS_07478
Release date : 6/7/2022
Print date : 6/7/2022

RBRC 06417 **Strain name** D2.Cg-Dms

Primer	primer_name	primer_seq	length		Reference
1	common	CAACTGCATGACACATGCACCAGC	24		RIKEN BRC
2	WT	CCTGATAACTGTCCAGAGAGACGG	24		RIKEN BRC
3	MT	CCTGATAACTGTCCAGAGAGACGA	24		RIKEN BRC

Reaction Components

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

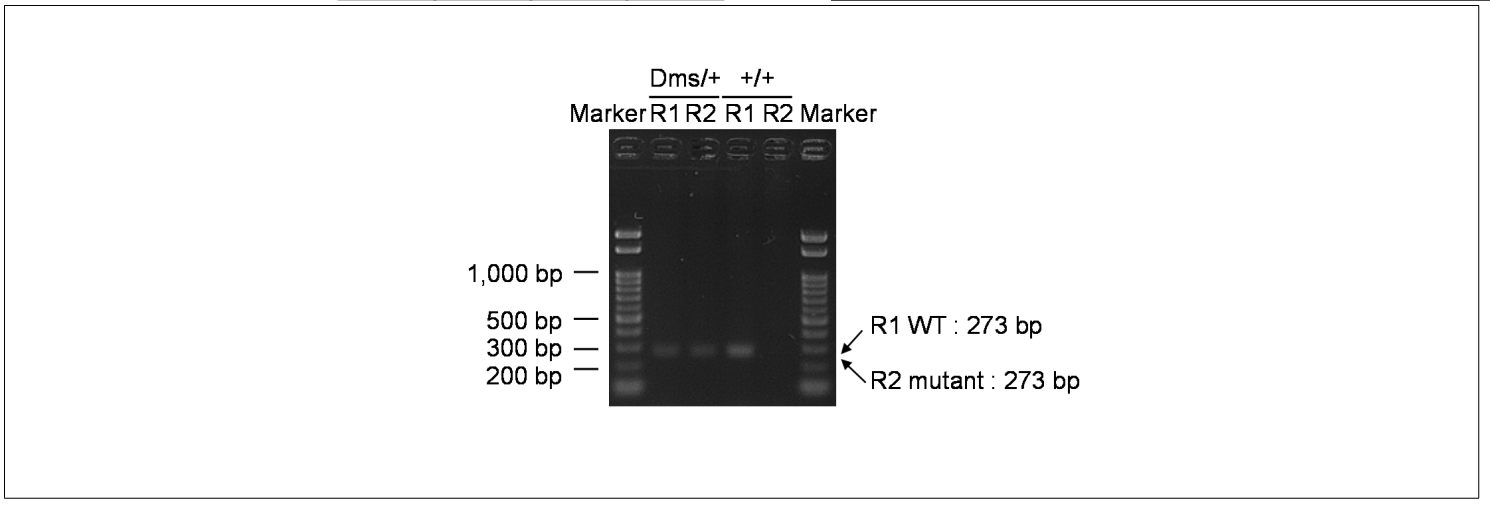
Reagent	Conc	Reaction 1	2	3	4	
H2O		2.0	2.0			(μL)
primer 1	10 pmol/μl	1.0	1.0			
primer 2	10 pmol/μl	1.0	0			
primer 3	10 pmol/μl	0	1.0			
DNA		1.0	1.0			
Master Mix	2 X	5.0	5.0			
	total	10	10			

Reaction Conditions

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

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

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



primer_set		product_size	product (allele type)
primer 1	primer 2	273 bp	WT
primer 1	primer 3	273 bp	mutant

Reaction 1
Dms/+ (heterozygous): 273 bp
+/+ (wild-type): 273 bp
Reaction 2
Dms/+ (heterozygous): 273 bp
+/+ (wild-type): none

Comment Allele specific PCR (ASP)