PCR protocol

Sheet ID PS_05420
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RBRC 02659 **Strain name** A.AKITA-(D6Mit229-D6Mit133)

Primer	primer_name	primer_seq	length		Reference
1	D6Mit229-1	CCTCCTCGTTCATGCCAC	18		Depositor's primer
2	D6Mit229-2	GAGTTGTTTTTGGTTTTAATTTTCTC	26		Depositor's primer
3	D6Mit133-1	GCCCTCTTCTGACATCTAAAGG	22		Depositor's primer
4	D6Mit133-2	CTCTACTGTGCTAATTTCCATTTTC	25		Depositor's primer

Reaction Components

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

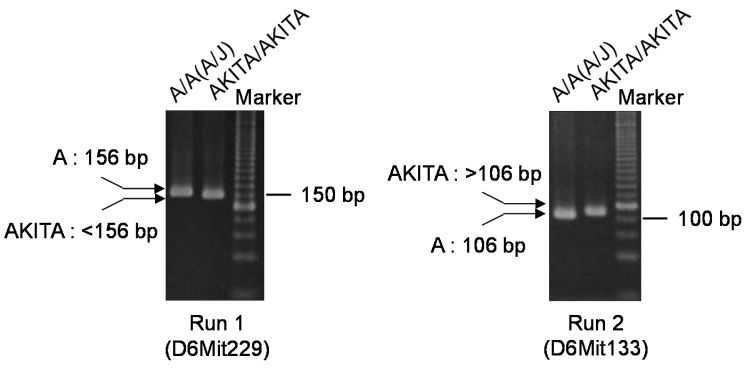
Reagent	Conc	Reaction 1	2	3	4	
H2O		2.0	2.0			(μL)
Master Mix	2 X	5.0	5.0			
primer 1	10 pmol/μl	1.0	0			
primer 2	10 pmol/μl	1.0	0			
primer 3	10 pmol/μl	0	1.0			
primer 4	10 pmol/μl	0	1.0			
DNA		1.0	1.0			
	total	10	10			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	95	900	
2	94	30	*
3	60	90	*
4	72	60	* *Repeat for 30 cycles
5	60	1800	

Marker 25 bp DNA ladder (Invitrogen, Cat. 10597-011)

Gel 4% Nusieve in 0.5 X TBE (100 V, 60 min)



primer_set		product_size	product (allele type)
primer 1	primer 2	156 bp	A/A
primer 1	primer 2		AKITA/AKITA
primer 3	primer 4	106 bp	A/A
primer 3	primer 4		AKITA/AKITA

Comment