PCR protocol

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RBRC 10429 **Strain name** B6N(D2)-Jak1<spade>/RgscHko

Primer	primer_name	primer_seq	length		Reference
1	Q99_Wild-2	CGGTTCCTGAAGAGGATTCG	20		Depositor's primer
2	Q99_reverse	ATCTATGCTTGGCCCTCCTC	20		Depositor's primer
3	Q99_mutant-2	CGGTTCCTGAAGAGGATTCA	20		Depositor's primer
4	D11Mit52F	AAGGAAGGGTGACCTGTGTG	20		Depositor's primer
5	D11Mit52R	ACCGCAGCACAGTAAATAAGTAA	23		Depositor's primer

Reaction Components

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

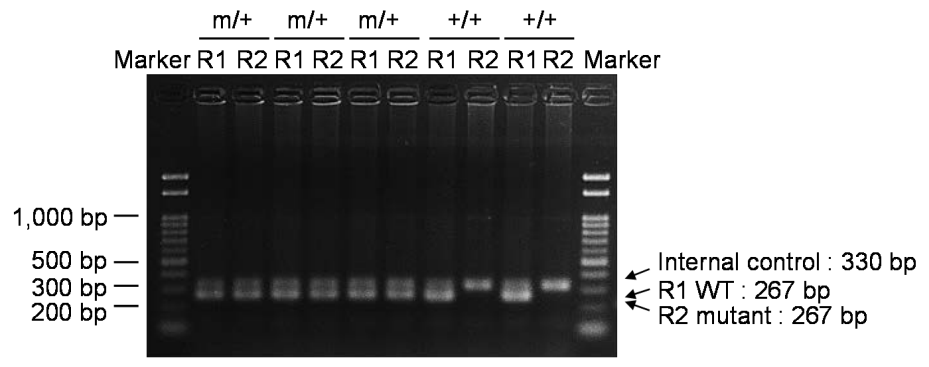
Reagent	Conc	Reaction 1	2	3	4	
primer 1	10 pmol/μl	1.0	0			(μL)
primer 2	10 pmol/μl	1.0	1.0			
primer 3	10 pmol/μl	0	1.0			
primer 4	10 pmol/μl	1.0	1.0			
primer 5	10 pmol/μl	1.0	1.0			
DNA		1.0	1.0			
Master Mix	2 X	5.0	5.0			
	total	10	10			

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	267 bp	WT
primer 2	primer 3	267 bp	mutant
primer 4	primer 5	330 bp	Internal control

Comment Allele specific PCR (ASP)