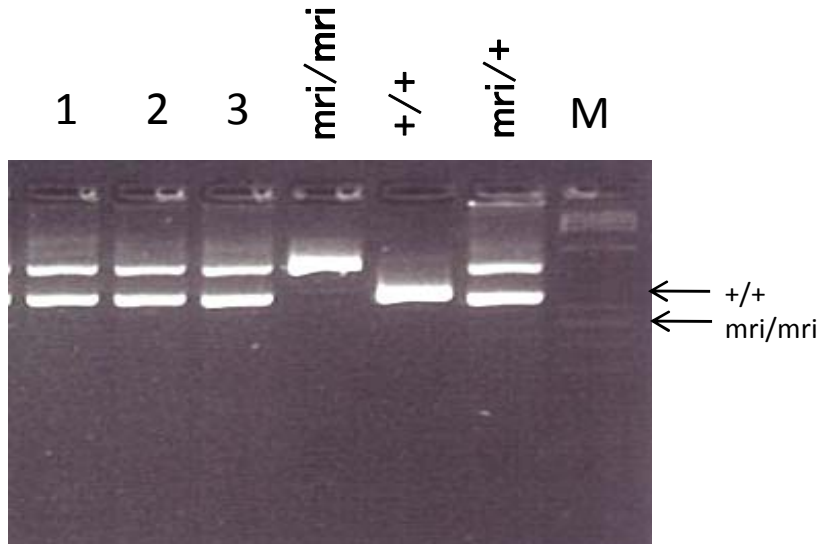


Gene symbol	<i>Prkg2</i>
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primer	Sequence(5'-3')	Size	target gene	accession
rPrkg2-F rPrkg2-KMI-R rPrkg2-WT-R	TGTATTTTCCCGTCCGACAC CAGAGTACGCTAGGTTCCAAGG TCCTTCGATGCCACCGTAAT	378bp or 530bp	prkg2	NM_013012.1
comment	The Amplified fragment from the wild type is 152bp shorter than from the mutant homozygote.			

PCR condition							
Taq polymerase		BIOTAQ TM HS DNA Polymerase (Bioline Reagents Ltd., UK)					
Thermal cycler		PC-808(ASTEC)					
PCR buffer		Ampdirect Plus					
		first denature	denature	anneal	extension	cycle	final extension
PCR	°C	94	94	55	72	35	72
	min	3	0.5	1	0.75		3
comment		①PCR method; Blood was applied to FTA [®] card (GE Healthcare UK Ltd.,UK) and dried. 1.5mm FTA disc was removed from the bloody-stained region on FTA [®] card. Untreated sample discs were placed directly in 15 μ L PCR mixture containig 1 × Ampdirect [®] Plus, 0.2 μ M each primer and 0.4 units of BIOTAQ TM HS DNA Polymerase.					

Electrocataphoresis ;4% agarose gel 300V, 30min



Strain harboring mutation	KMI/Tky
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