

Gene symbol	<i>Scn1a</i> <sup>m2Kyo</sup>			
primer	Sequence(5'-3')	Size	target gene	accession
SCN1A-ex11-F SCN1A-ex11-R	CTTGCACCTCATTGAAATGGT AAAACCCACCCATCTCTTC	399bp	Scn1a	NM_030875.1
comment	This strain possesses a point mutation in the Scn1a gene (E539A) . Genotyping by sequencing analysis.			

PCR condition							
Taq polymerase		BIOTAQTM 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	60	72	35	72
	min	3	0.5	0.5	1		3
comment		PCR 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 BIOTAQTM HS DNA Polymerase.					

Sequenece: ABI3130x/	
Wild Allele	<p>• E631_Mu_G01.ab1 Fragment base #103. Base 103 of 36</p>
Mutant Allele	<p>E631_Hetero_H01.ab1 Fragment base #105. Base 105 of 36</p>
Heterozygote	
Strain harboring mutation	F344- <i>Scn1a</i> <sup>m2Kyo</sup>