

Gene symbol	<i>Atm</i> <sup>em1Kyo</sup>			
primer	Sequence(5'-3')	Size	target gene	accession
Atmtm1_F3	ATTTCAATCTCGTGTGGCTTC	120bp	Atm	ENSRNOG00000029773
Atmtm1_R3	GCTGTTCTGATAATCCCAGAAGATA	112bp		
comment	8 bp deletion in Exon 13 of <i>Atm</i> gene Genotyping protocol for <i>Atm</i> <sup>em1Kyo</sup>			

PCR condition							
Taq polymerase		BIOTAQTM HS DNA Polymerase (Bioline Reagents Ltd., UK)					
Thermal cycler		PC-808(ASTEC)					
PCR buffer		Ampdirect Plus(Shimadzu.Co)					
		<b>first denature</b>	<b>denature</b>	<b>anneal</b>	<b>extension</b>	<b>cycle</b>	<b>final extension</b>
PCR	°C	94	94	60	72	40	72
	min	3	0.5	1	0.75		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.					

Electrocataphoresis ; MultiNA(Simadzu.Co)	
Strain harboring mutation	F344- <i>Atm</i> <sup>em1Kyo</sup>