

Gene symbol	<i>Atrn</i> ^{mv}			
primer	Sequence(5'-3')	Size	target gene	accession
EST13-117 rAtrn-mv-12	TGCATCCTGTAAGCCAATT TGCAGGTGCAGGTAAAGACAG	528bp	<i>Atrn</i>	NM_031351.1
EST13-117 EST13-113	TGCATCCTGTAAGCCAATT GCAGGCCAGGTCTATGTGTA	576bp	<i>Atrn</i>	NM_031351.1
comment	detection of mutant allele:EST13-117&rAtrn-mv-26 detection of wild allele: EST13-117&EST13-113 6.914-bp deletion including the whole exon 1 of the attractin (<i>Atrn</i>) gene in MV rats			

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	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 μL PCR mixture containing 1 × Ampdirect®Plus, 0.2 μM each primer and 0.4 units of BIOTAQTM HS DNA Polymerase.					

Electrophoresis ;4% agarose gel 300V, 30min						
Primer	EST13-117	EST13-117				
	EST13-113	rAtrn-mv-12				
Size	576 bp	528 bp				
mv/mv	+	-				
mv/+	+	+				
+/+	-	+				
Strain harboring mutation	MV/Opu					