

Gene symbol	<i>Arsb</i>			
primer	Sequence(5'-3')	Size	target gene	accession
Arsb-ex3-F Arsb-ex3-R	CTTGATGCCATGCTGACTGT TCCCTTGAAGCAACAAGAT	283bp	Arsb	NW_033443.1
comment	MPR rats have a 1-bp insertion (507insC) which resulting in a frame shift mutation in the arylsulfatase B (<i>Arsb</i>) gene on rat chromosome 2 (Kunieda, 1995).			

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	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.					

Sequenece: ABI3130x/	
Wild allele	<p>WTTC_F02.ab1 Fragment base #212. Base 212 of 270</p> <p>C C A C : C C C C C C G A G A A A G T A</p> <p>C C A C C C C C C C G A G A A A G T A</p>
Mutant allele	<p>control_arsb_01_D02.ab1 Fragment base #209. Base 209 of 267</p> <p>C A C C C C C C C C G A G A A A G T A</p> <p>C A C C C C C C C C G A G A A A G T A</p> <p>1bp insertion(507 ins C)</p>
Strain harboring mutation	MPR/Iar