

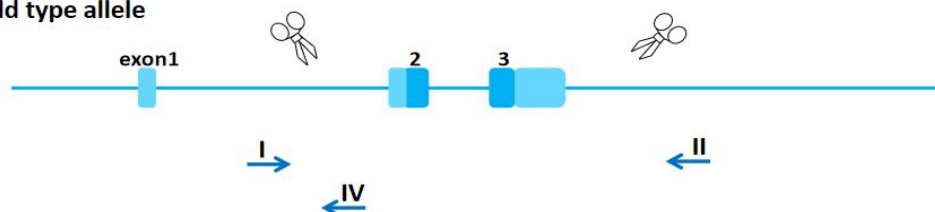
S100a8-K0 Genotyping Protocol



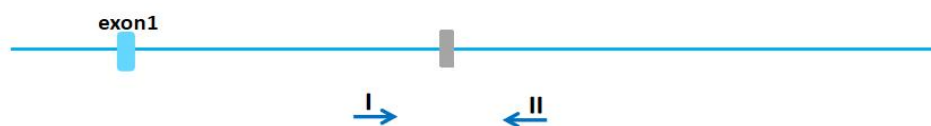
Common Name	S100a8-KO	Cat. NO.	NM-KO-233472
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



knockout allele

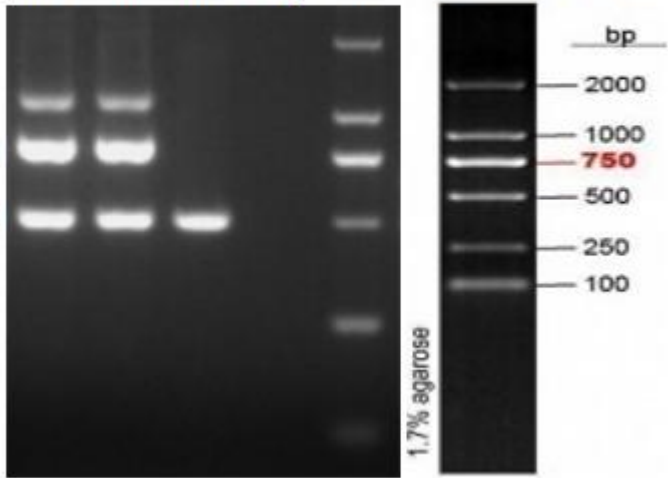


- : coding region
- : uncoding region
- : Cas9/gRNA
- : mutation
- NHEJ : Non-homologous end joining
- : primer location

Primers

Primer	Sequence (5' → 3')	Primer type
P1	GAAGAGCGTTGTCTCCATAGCC	Forward
P2	GAGTTCCTCATTTTACCAGTCCCT	Reverse
P4	GGGTGACAACTGAGTGGGCAT	Reverse

Expected results

Results	P1P2P4 HE HE WT H₂O M DL2000 					
	Knockout type: -945 bp Wild type: P1P4 =484 bp Heterozygote: P1P2 =797 bp; P1P4=484 bp Homozygote: P1P2 =797 bp					

Note: In both wild-type and heterozygous mice, whether the P1 and P2 primers can amplify larger bands does not affect the interpretation of the results, because the purpose of designing this pair of primers is to amplify K0 band

Reaction &Cycling

PCR Reaction System	Reaction Component			Volume (μl)
	ddH ₂ O			7.5
	2×Taq Plus Master Mix			10.0
	P1 (10 pmol/μl)			0.5
	P2 (10 pmol/μl)			0.5
	P4 (10 pmol/μl)			0.5
	Genomic DNA			1.0
	Total			20
	2×Taq Plus Master Mix from Vazyme (Code Number: P222-1)			
Cycling Reaction	Step	Temp	Time	Note
	1	95° C	5 min	
	2	95° C	20 sec	
	3	60° C	20 sec	
	4	72° C	20 sec	35 repeats to 2
	5	72° C	5 min	
	6	12° C	Hold	