

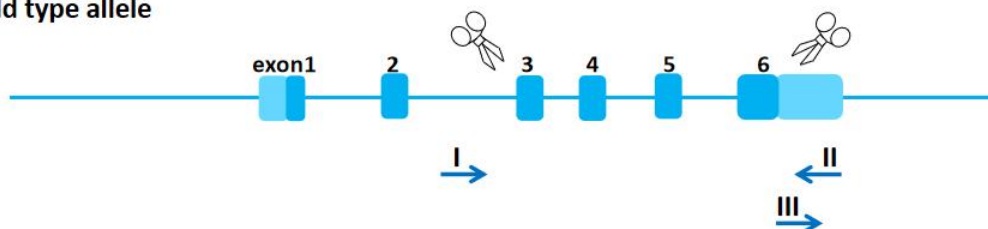
Cd79b-KO (2) Genotyping Protocol



Common Name	Cd79b-K0 (2)	Cat. NO.	NM-K0-234839
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



knockout allele

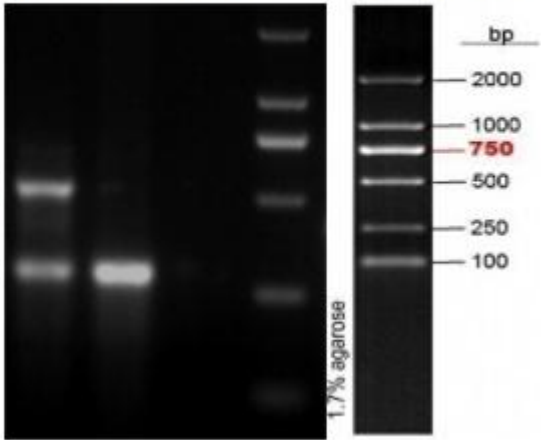


- : coding region
 : uncoding region
 : Cas9/gRNA
 : mutation
NHEJ : Non-homologous end joining
 : primer location

Primers

Primer	Sequence (5' → 3')	Primer type
P1	AGGTTGGGGATCAGAGCAGG	Forward
P2	CAGGCACATTATTTATTCCACAGG	Reverse
P3	TGGAAGGACAATAGGGTGGTGA	Forward

Expected results

Results	P1P2P3 HE WT H₂O M DL2000  522 bp 290 bp
Genotype	Knockout type: -1594bp Wild type: P3P2=290 bp Heterozygote: P1P2 =522 bp; P3P2=290 bp Homozygote: P1P2 =522 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 KO 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
	P3 (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	