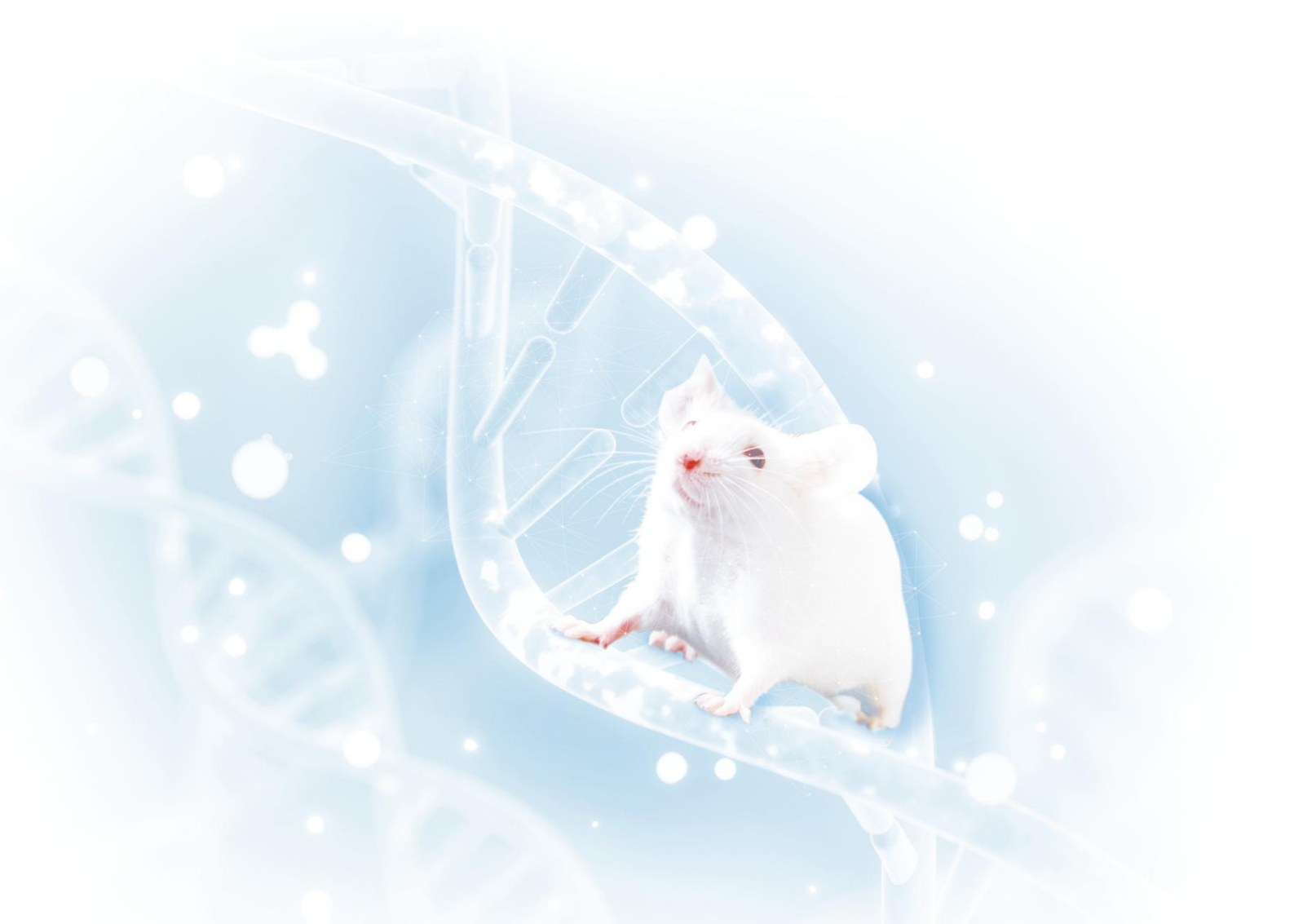


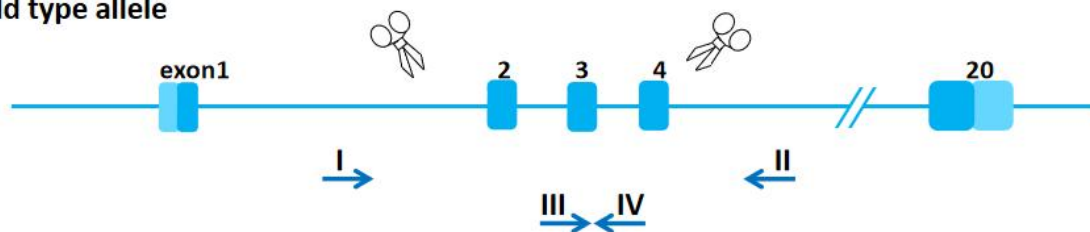
Ylpm1-Flox Genotyping Protocol



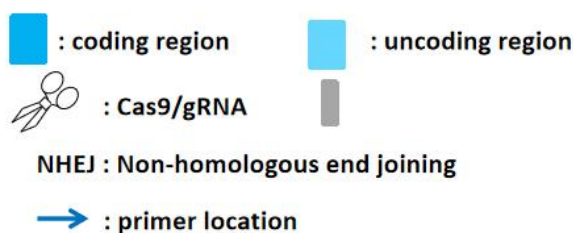
Common Name	Ylpm1-Flox	Cat. NO.	NM-KO-230331
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



knockout allele



Primers

Primer	Sequence (5' → 3')	Primer type
P1	GGCCACACCCATTCCGATAA	Forward
P2	CCTTAGCCGCCAGAAAGTCA	Reverse
P3	CTCGGAAGACTCTGAGGAGGAT	Forward
P4	CAGCCATGTATGCATTAGTCCC	Reverse

Expected results

Results	
Genotype	Knockout type: -3365bp Wild type: P1P2 =4013 bp; P3P4=698 bp Heterozygote: P1P2 =4013 bp and 648 bp; P3P4=698 bp Homozygote: P1P2 =648 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)
	ddH2O			8.0
	2×Taq Plus Master Mix			10.0
	P1 (10 pmol/μl) or P3 (10 pmol/μl)			0.5
	P2 (10 pmol/μl) or 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	