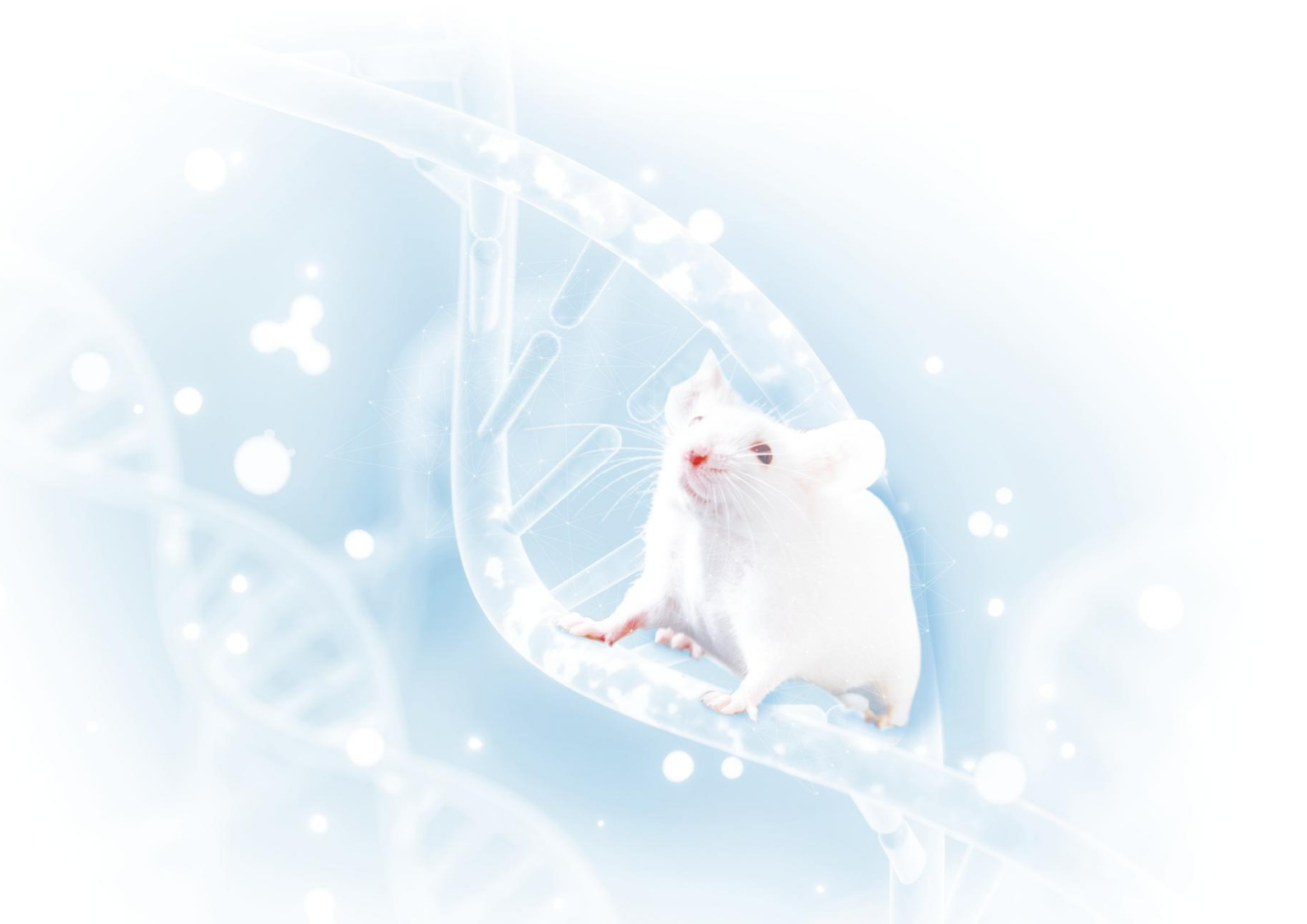
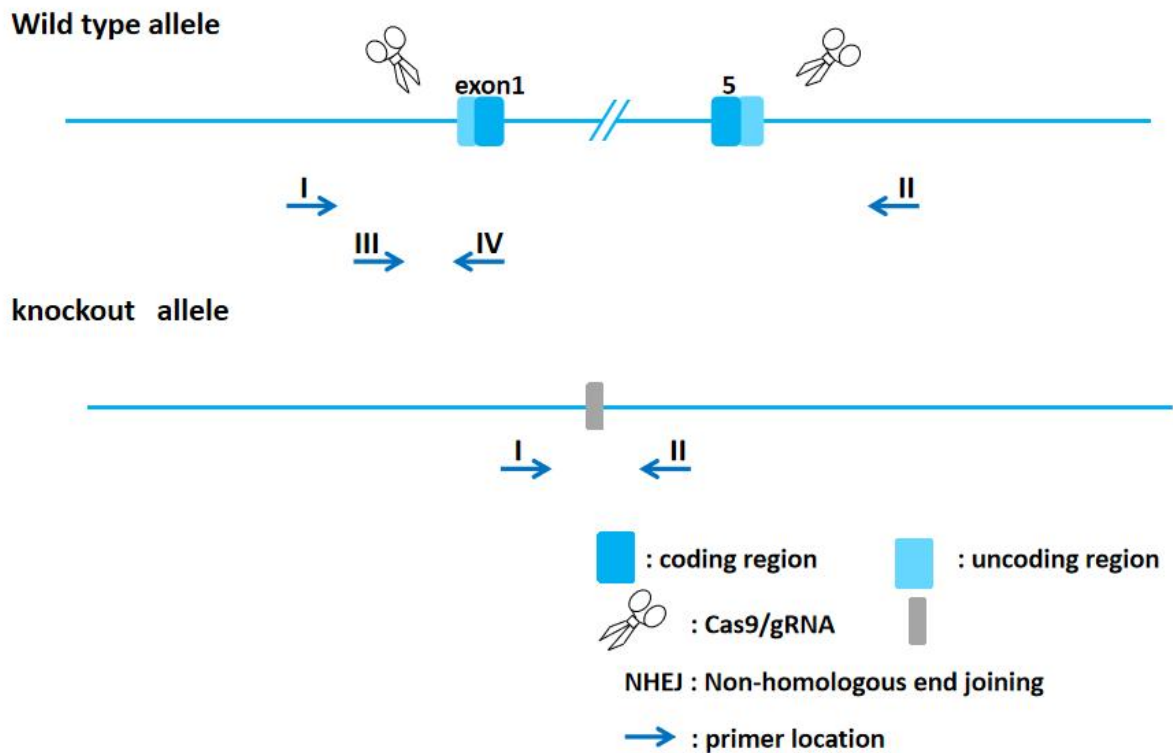


Yars2-K0 Genotyping Protocol



Common Name	Yars2-K0	Cat. NO.	NM-K0-200900
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy



Primers

Primer	Sequence (5' → 3')	Primer type
P1	CCTGCCTGTA CTGTGACGAG	Forward
P2	AAGCCAAGAAGTCGGAGTG	Reverse
P3	ATTCCAGGACTGCCTACAGC	Forward
P4	CGCTCTCGGGGAAGAACTC	Reverse

Expected results

Results	
Genotype	<p>Knockout type: -6771bp</p> <p>Wild type: P3P4=277 bp</p> <p>Heterozygote: P1P2 =587 bp; P3P4=277 bp</p> <p>Homozygote: P1P2 =587 bp</p>

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 Component	Volume (μl)
Reaction	ddH2O	8.0
	2×Rapid Taq Master Mix	10.0
System	P1 (10 pmol/μl) or P3 (10 pmol/μl)	0.5

	P2 (10 pmol/ μ l) or P4 (10 pmol/ μ l)			0.5
	Genomic DNA			1.0
	Total			20
	2 \times Rapid Taq Master Mix from Vazyme (Code Number: P222-01)			
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	