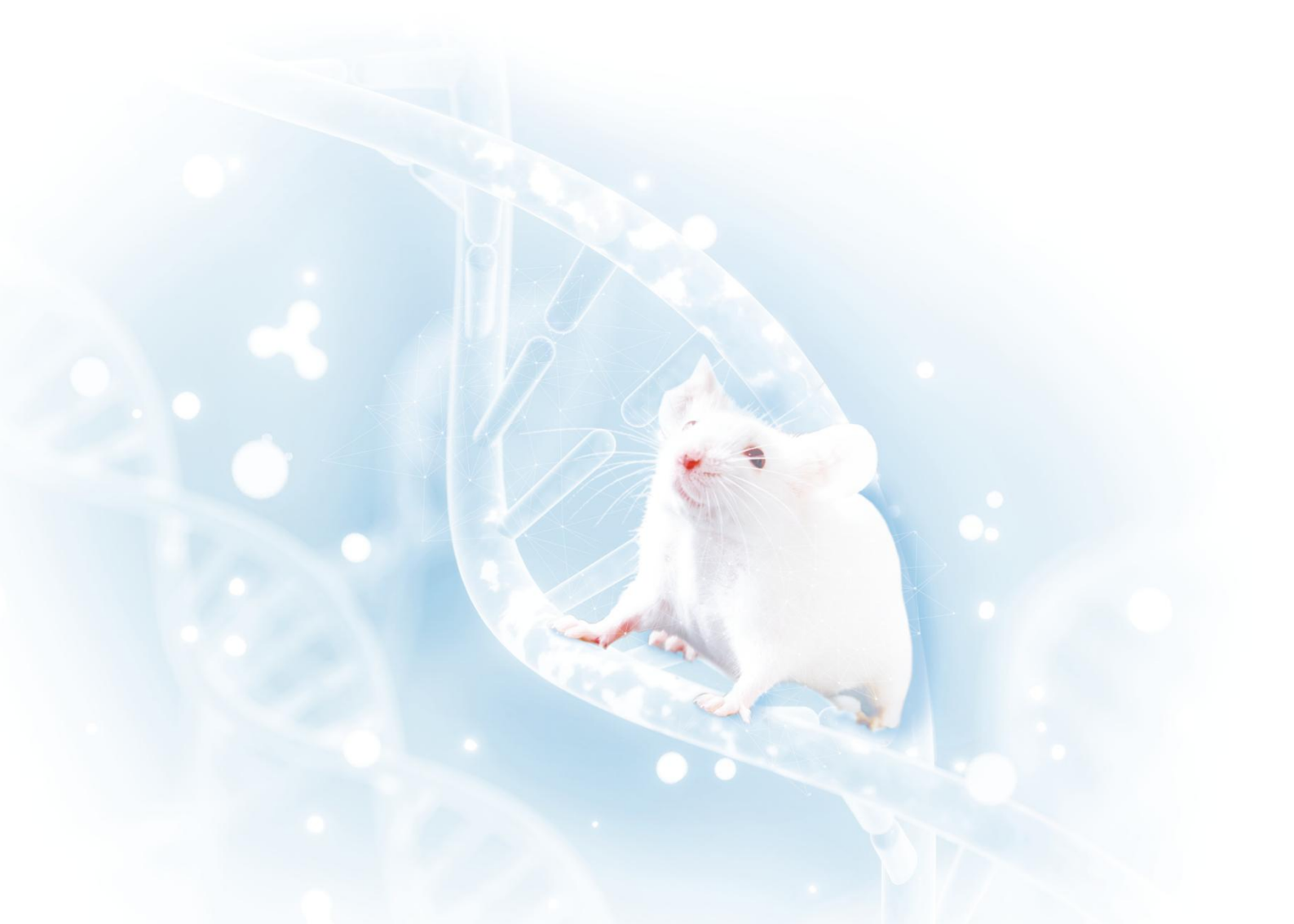


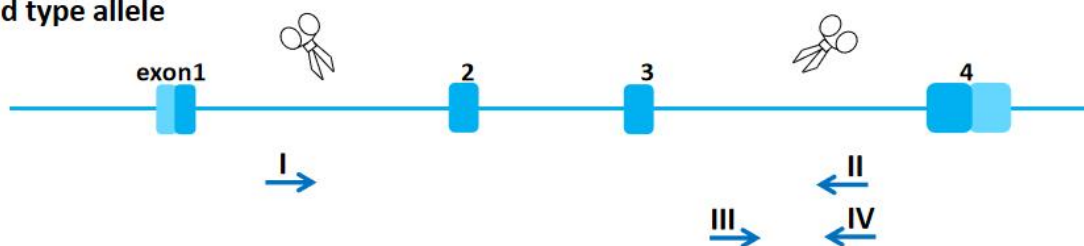
Cd300lb-KO Genotyping Protocol



Common Name	<i>Cd300lb-KO</i>	Cat. NO.	NM-KO-240802
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	GTGAGGAGGAGAGATGACCCT	Forward
P2	TCTCTCCCTTGACAGTCACA	Reverse
P3	CCATGCTCCTGCCTTGATGAT	Forward

P4	TCTGCCCTCAACAATGGCTC	Reverse
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Expected results

Results	GeneRuler™ 1 kb DNA Ladder 0.5 µg/lane, 8 cm length gel, 1X TAE, 7 V/cm, 45 min DL2000 bp 2000 1000 750 500 250 100 1.7% agarose
Genotype	Knockout type: -3410bp Wild type: P1P2 =4024 bp; P3P4 =450 bp Heterozygote: P1P2 =4024 bp and 614 bp; P3P4 =450 bp Homozygote: P1P2 =614 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 Component	Volume (µl)
Reaction	ddH ₂ O	8.0
System	2×Rapid Taq 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
	2xRapid 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	40 sec	35 repeats to 2
	5	72°C	5 min	
	6	12°C	Hold	