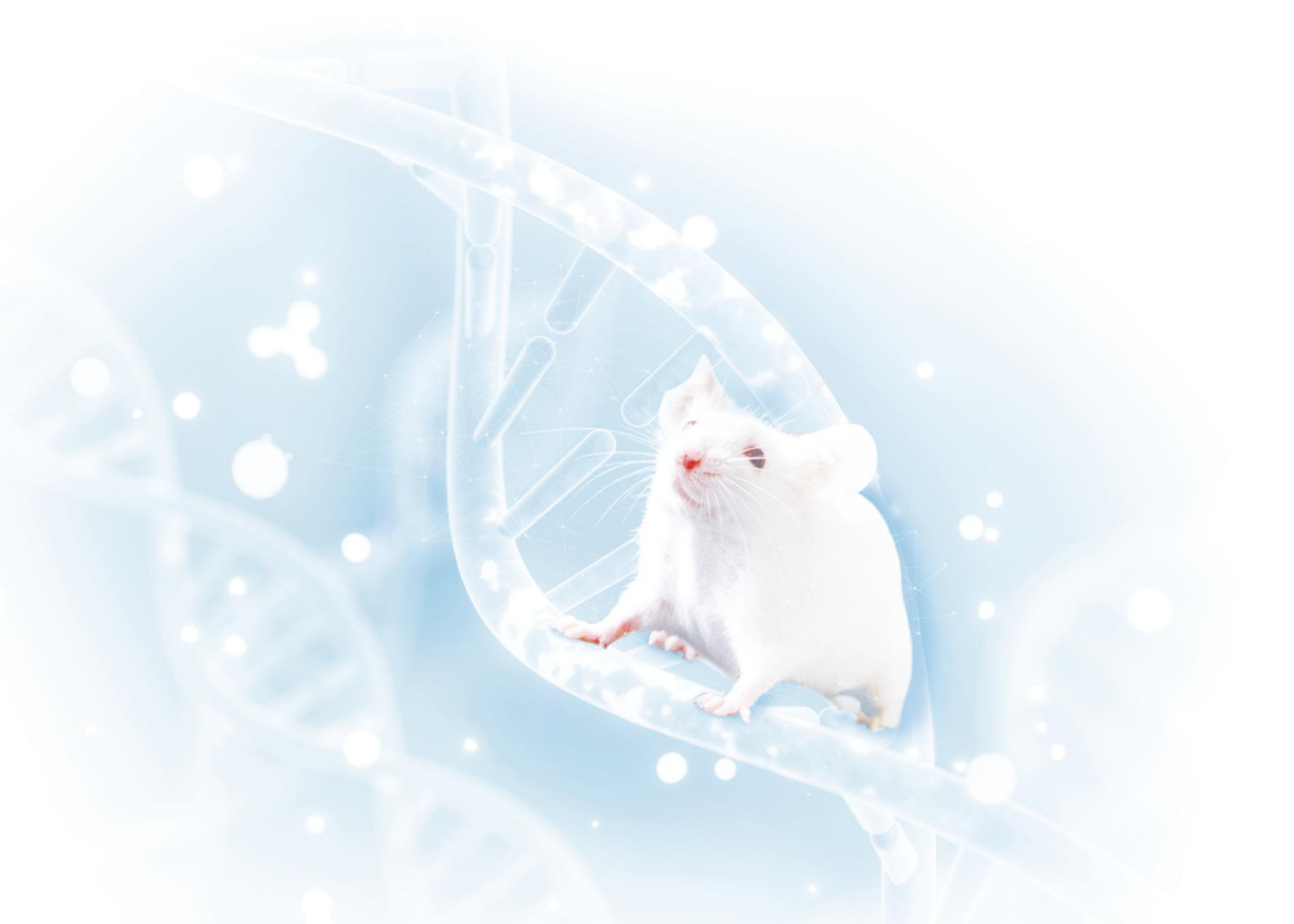


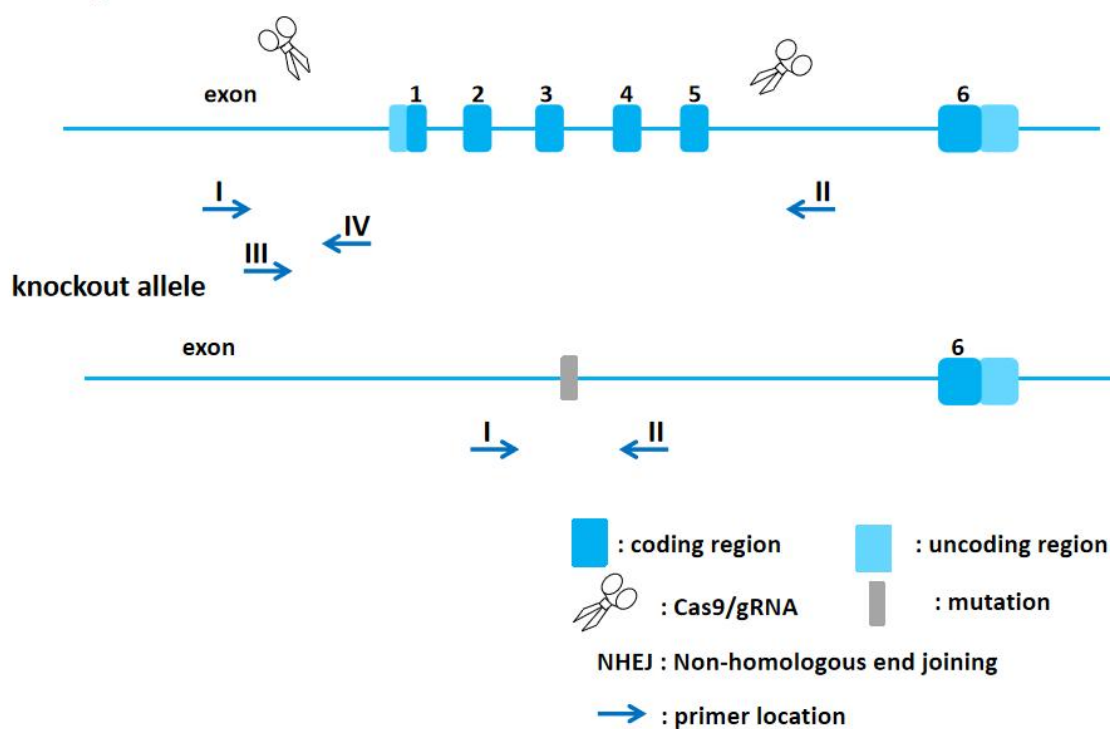
Dnase2a-K0 Genotyping Protocol



Common Name	Dnase2a-KO	Cat. NO.	NM-KO-2102068
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



Primers

Primer	Sequence (5' → 3')	Primer type
P1	CACACTGTCCTGTCCTCCAC	Forward
P2	CAGACCAGCCAGGGATACAC	Reverse
P3	GCTCACAACCACCGTAATG	Forward

P4	TTTGGGATGGTCTTGCCTACA	Reverse
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Expected results

Results	P3/P4 HE WT M 293bp DL2000 bp 2000 1000 750 500 250 100 1.7% agarose P1/P2 HE HE WT M 2626bp 671bp GeneRuler™ 1 kb DNA Ladder 10000 8000 6000 5000 4000 3500 3000 2500 2000 1500 1000 750 500 250 0.5 µg/lane, 8 cm length gel, 1X TAE, 7 V/cm, 45 min
Genotype	Knockout type: -1955 bp Wild type: P1P2 =2626 bp; P3P4=293 bp Heterozygote: P1P2 =2626 bp and 671 bp; P3P4=293 bp Homozygote: P1P2 =671 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	ddH2O	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
	2 × 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	