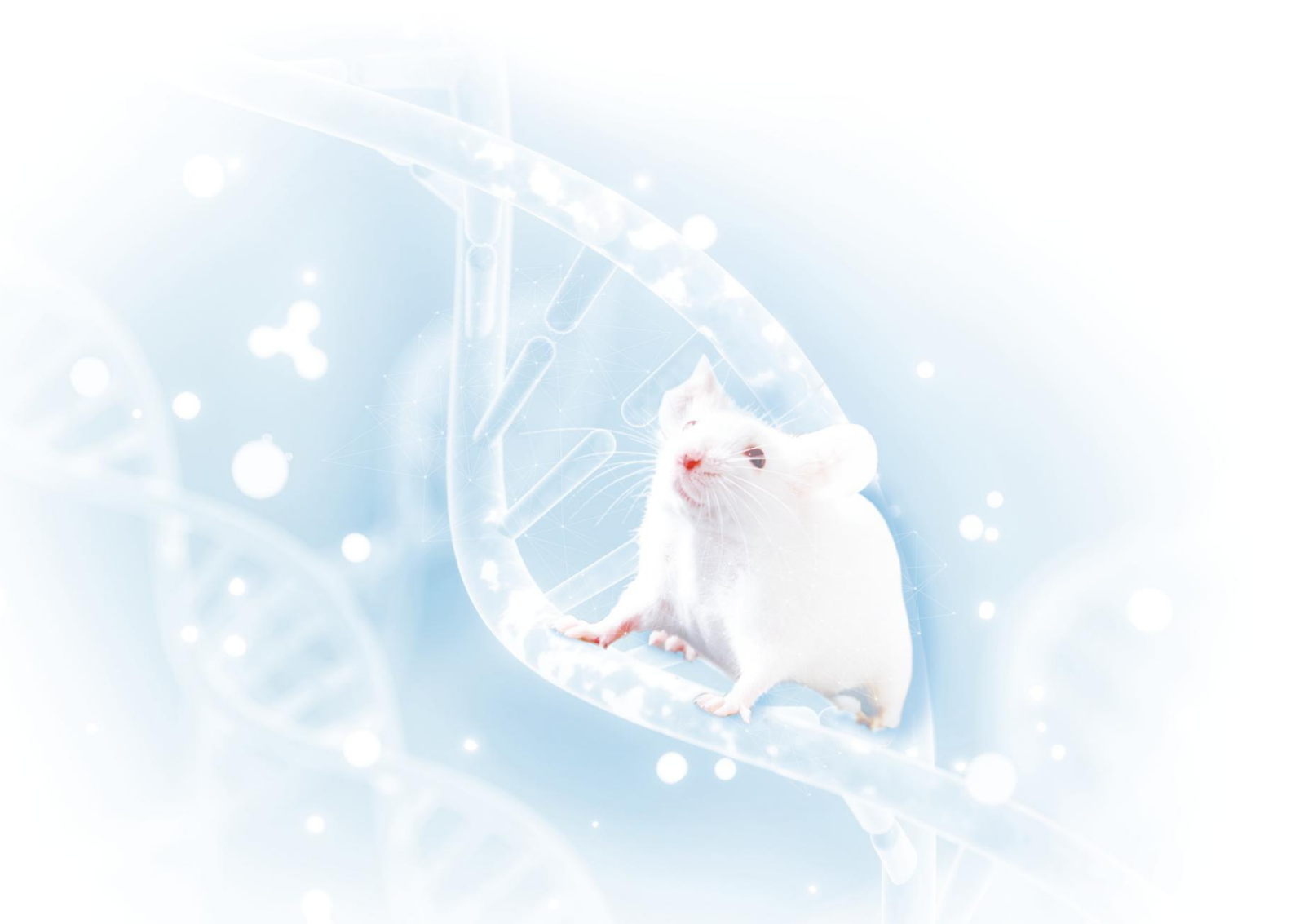


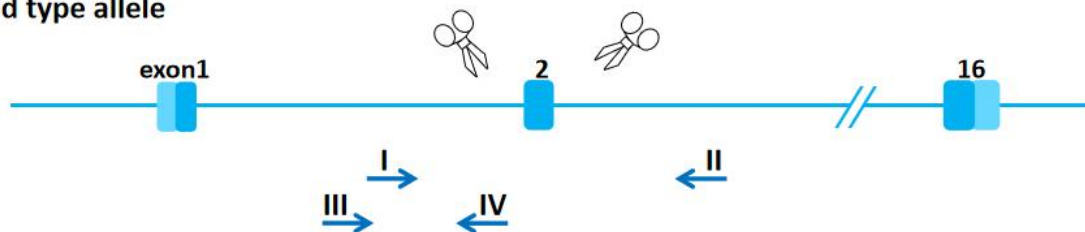
Atad3a-KO Genotyping Protocol



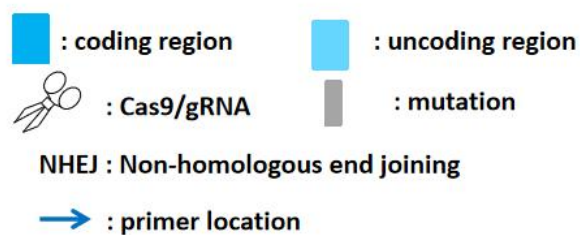
Common Name	Atad3a-KO	Cat. NO.	NM-KO-232389
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



knockout allele



Primers

Primer	Sequence (5' → 3')	Primer type
P1	ATAACCTAGGCGGTTGTCT	Forward
P2	CCTGAGCTCGACTGTGTTGT	Reverse
P3	ATGTTCTCCTTCCCCAACG	Forward
P4	GCCAAGGGGCTTTCAGTCTT	Reverse

Expected results

Results	
Genotype	Wild type: P1P2 =1540 bp; P3P4=323 bp Heterozygote: P1P2 =695 bp and 1540 bp; P3P4=323 bp Homozygote: P1P2 =695 bp

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	