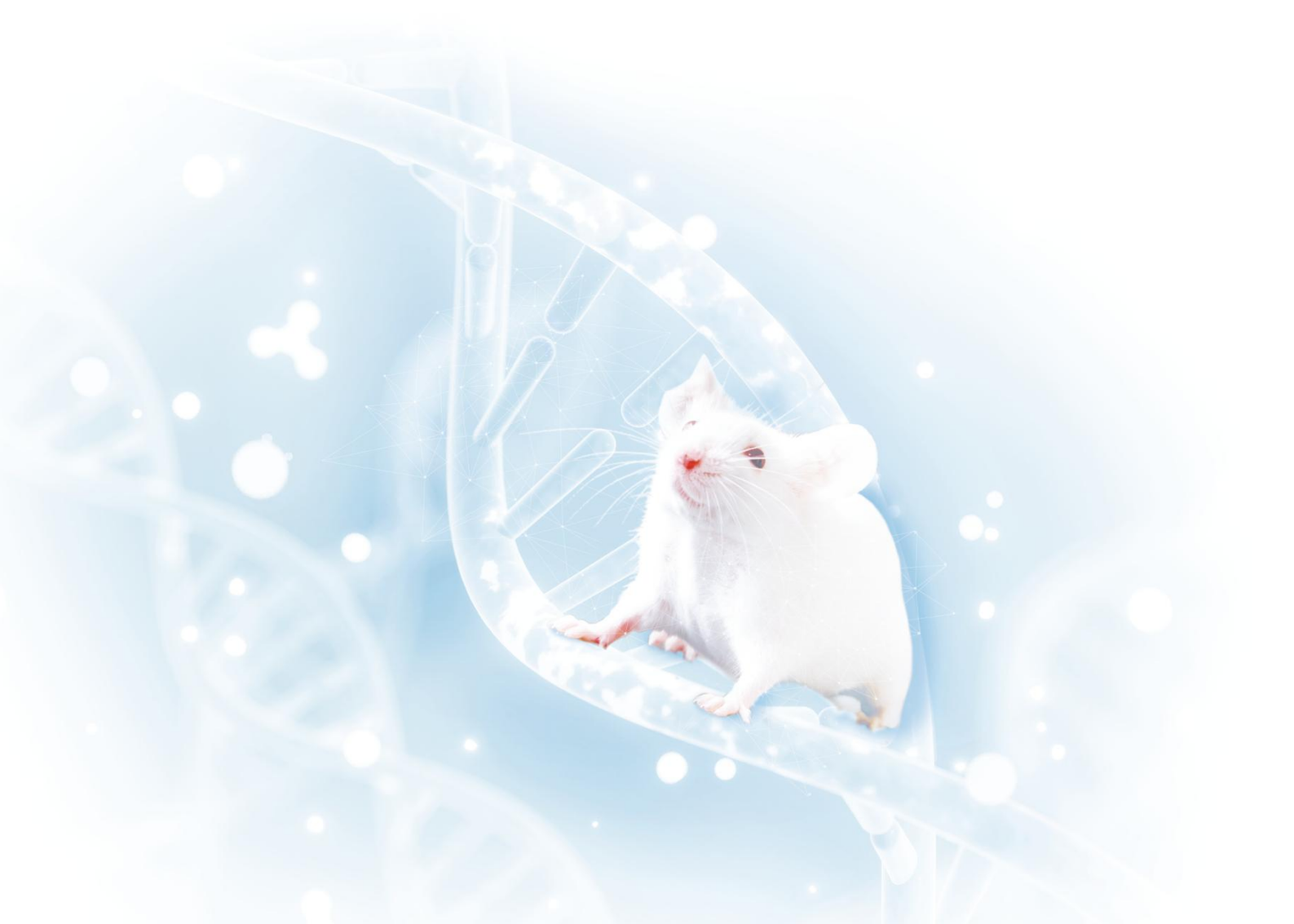
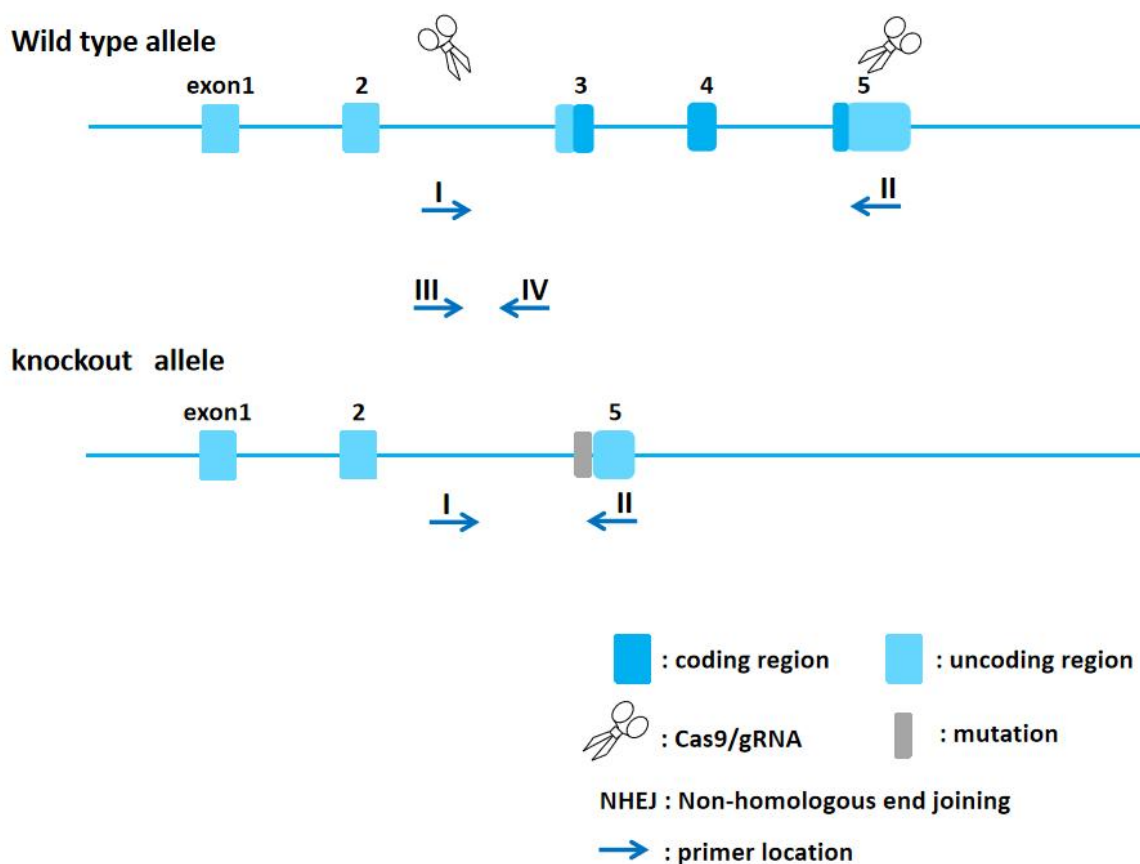


Triqk-KO Genotyping Protocol



Common Name	Triqk-KO	Cat. NO.	NM-KO-240284
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy



Primers

Primer	Sequence (5'→3')	Primer type
P1	AAAGATGGACATGCCTGCGA	Forward
P2	TGAGTATGCTTCTGCAAATGGC	Reverse

P3	TGCGAGCTCTGATTTGAGGA	Forward
P4	AAATGATGCCAACTTCACTTCAA	Reverse

Expected results

Results	GeneRuler™ 1 kb DNA Ladder 1% TopView™ LE (GG Agarose #R0421) 0.5 µg/lane, 8 cm length gel, 1XTAE, 7 V/cm, 45 min DL2000 bp 2000 1000 750 500 250 100
Genotype	Knockout type: -18162bp Wild type: P3P4 =379 bp Heterozygote: P1P2 =489 bp; P3P4 =379 bp Homozygote: P1P2 =489 bp

Reaction &Cycling

	Reaction Component	Volume (µl)
PCR	ddH2O	8.0
Reaction	2×Rapid Taq Master Mix	10.0
System	P1(10 pmol/µl) or P3(10 pmol/µl)	0.5
	P2(10 pmol/µl) or P4(10 pmol/µl)	0.5

	<i>Genomic DNA</i>			<i>1.0</i>
	<i>Total</i>			<i>20</i>
	<i>2×Rapid Taq Master Mix from Vazyme(Code Number: P222-01)</i>			
<i>Cycling Reaction</i>	<i>Step</i>	<i>Temp</i>	<i>Time</i>	<i>Note</i>
	<i>1</i>	<i>95°C</i>	<i>5 min</i>	
	<i>2</i>	<i>95°C</i>	<i>20 sec</i>	
	<i>3</i>	<i>60°C</i>	<i>20 sec</i>	
	<i>4</i>	<i>72°C</i>	<i>20 sec</i>	<i>35 repeats to 2</i>
	<i>5</i>	<i>72°C</i>	<i>5 min</i>	
	<i>6</i>	<i>12°C</i>	<i>Hold</i>	