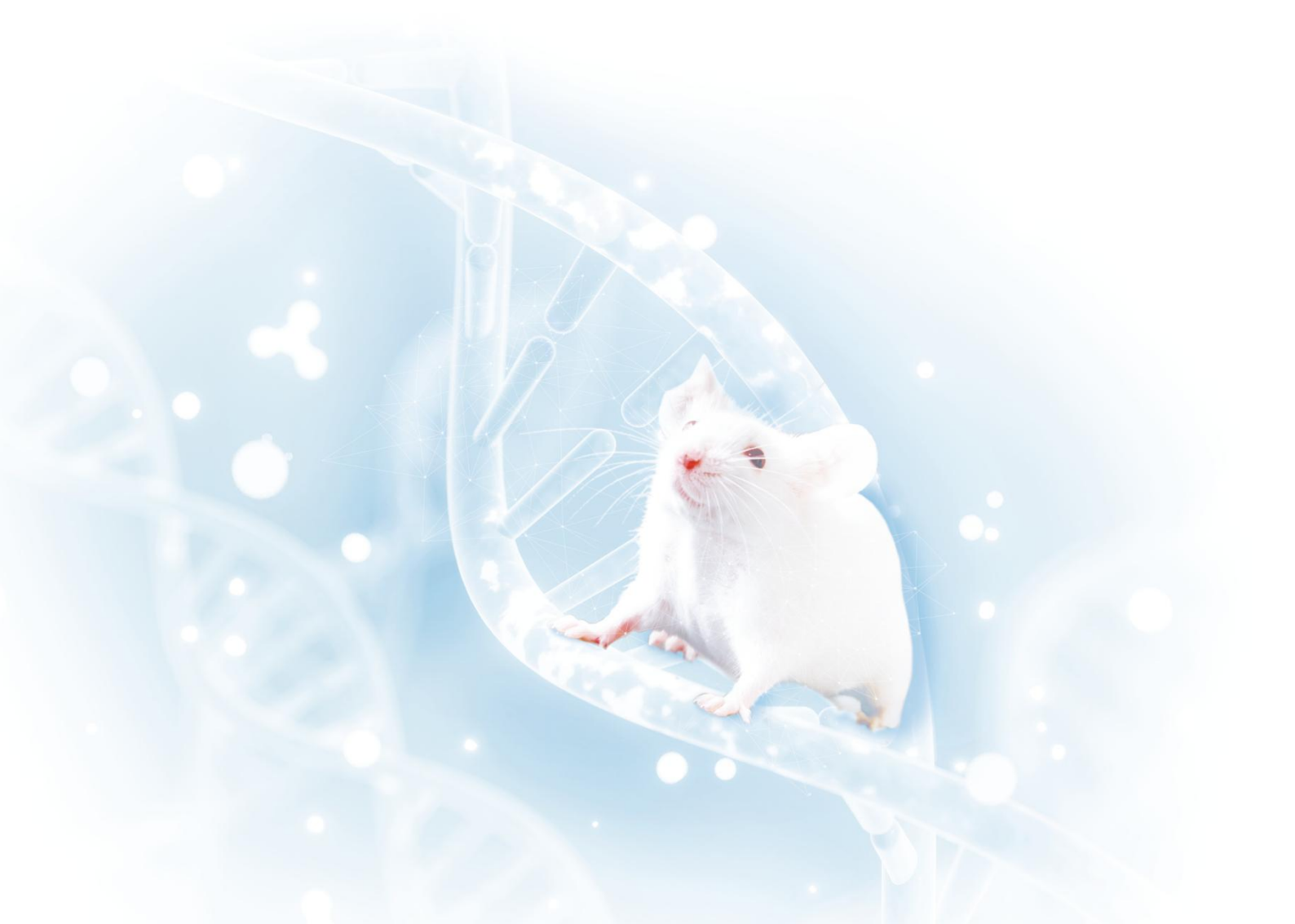


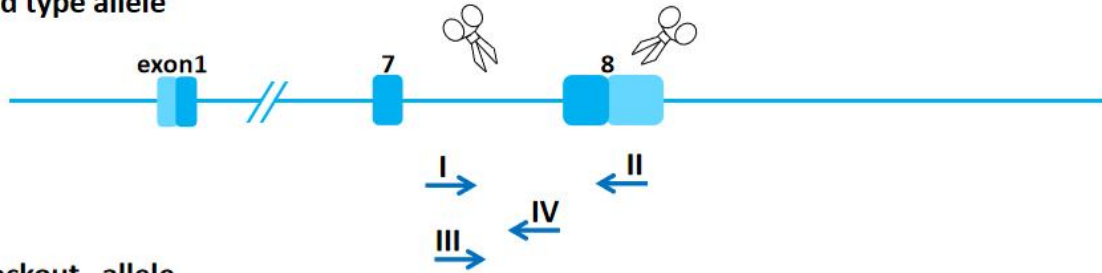
# **Ikzf3-KO Genotyping Protocol**



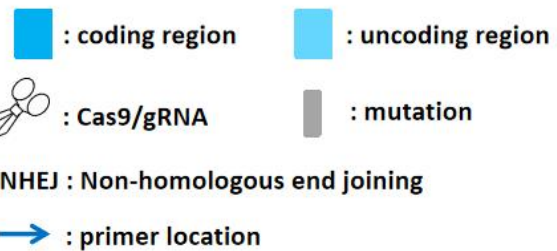
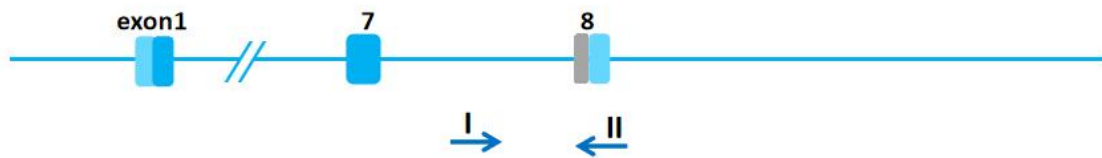
<b>Common Name</b>	Ikzf3-KO	<b>Cat. NO.</b>	NM-KO-2104251
<b>Strain of Origin</b>	C57BL/6J	<b>Version</b>	V1

## Genotyping strategy

### Wild type allele



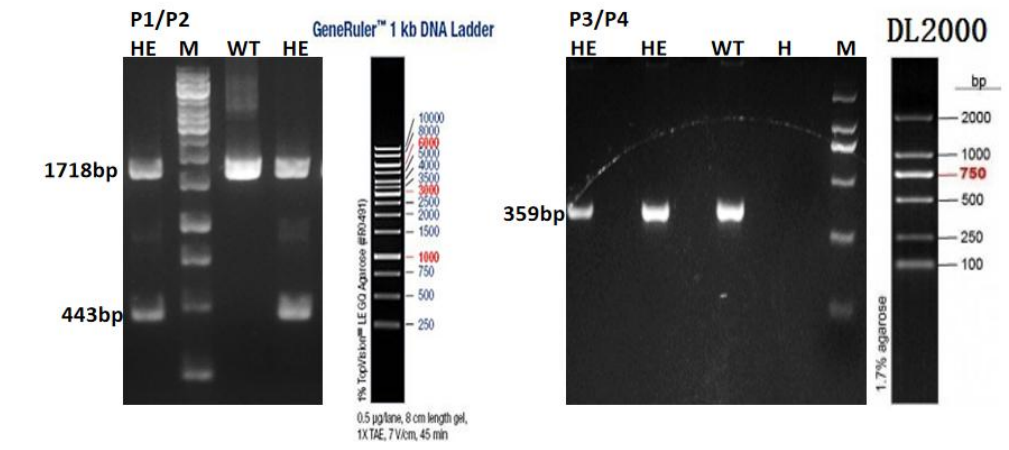
### knockout allele



## Primers

Primer	Sequence (5'→3')	Primer type
<b>P1</b>	CTGAGGCTGATCACTGACGG	Forward
<b>P2</b>	GGAAGTGGGTTGATGCTCCA	Reverse
<b>P3</b>	TAGGATGGCGCCAGTTAAGG	Forward
<b>P4</b>	AGGCAGAGTGGGAAAGTTG	Reverse

## Expected results

<p>Results</p>	
<p>Genotype</p>	<p>Knockout type: -1275bp</p> <p>Wild type: P1P2 =1718 bp; P3P4 =359 bp</p> <p>Heterozygote: P1P2 =1718 bp and 443 bp; P3P4 =359 bp</p> <p>Homozygote: P1P2 =443 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 System	Reaction Component		Volume (μl)		
	ddH <sub>2</sub> O		8.0		
	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			