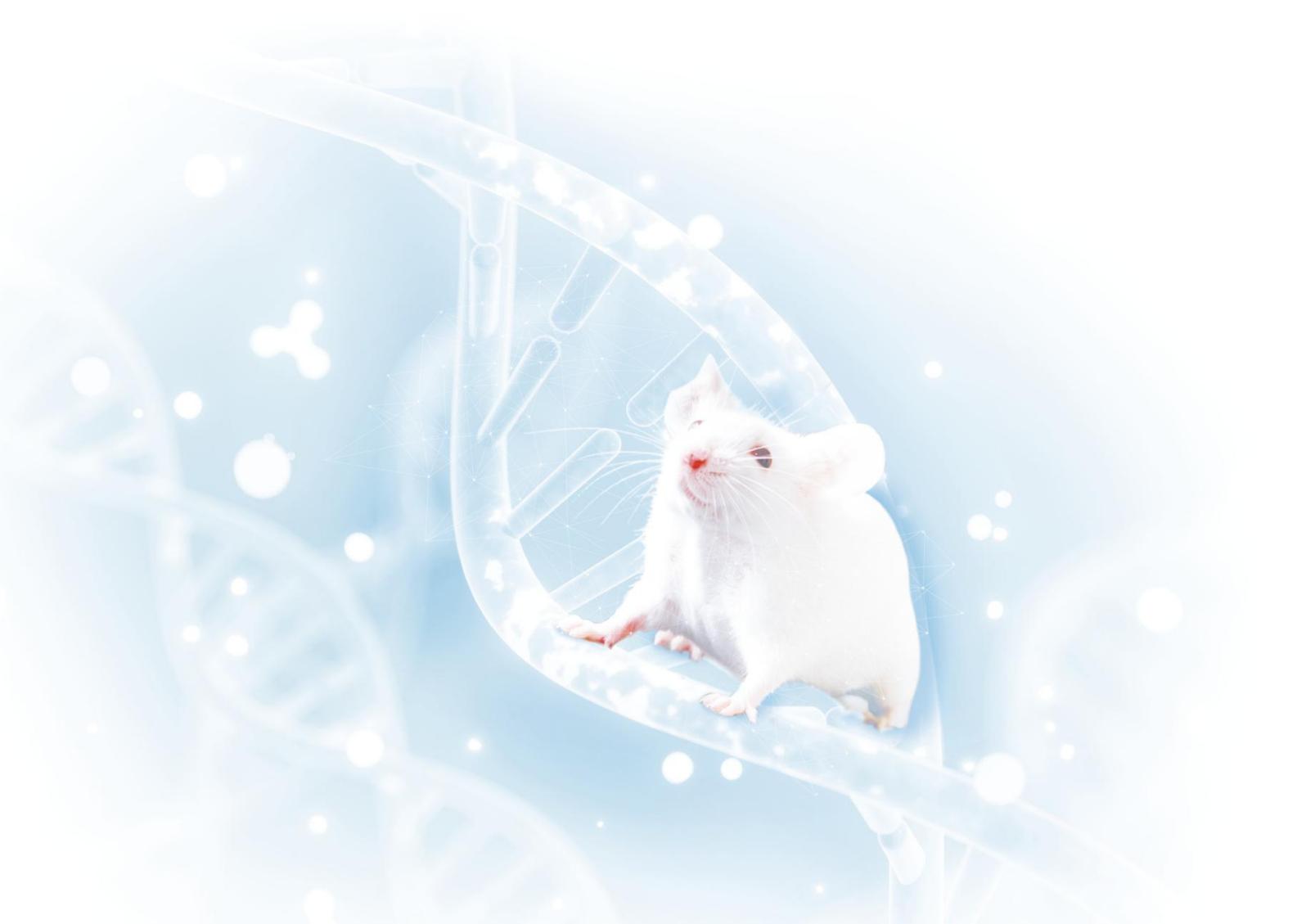


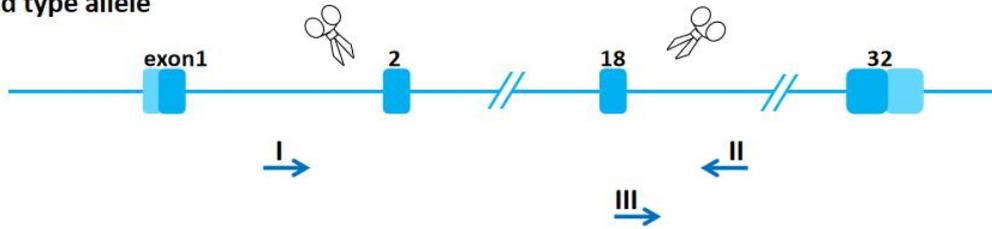
# Xpo5-K0 Genotyping Protocol



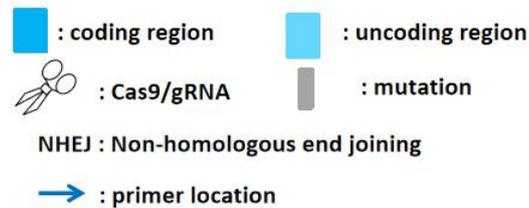
<b>Common Name</b>	Xpo5-K0	<b>Cat. NO.</b>	NM-K0-232372
<b>Strain of Origin</b>	C57BL/6J	<b>Version</b>	V1

### Genotyping strategy

#### Wild type allele



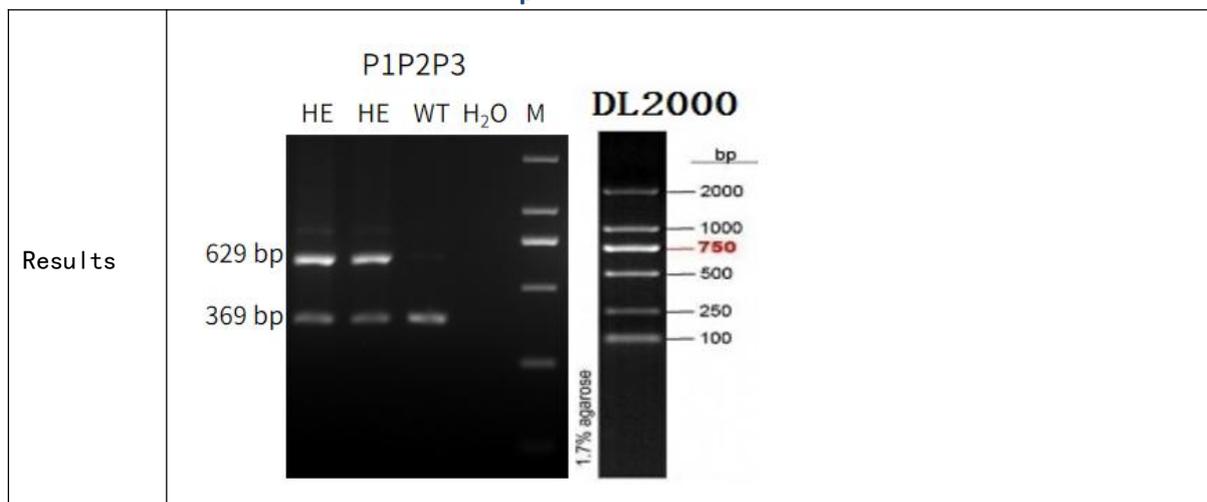
#### knockout allele



### Primers

Primer	Sequence (5' → 3' )	Primer type
P1	TCAGACAAAGTAAGCAGAAGAGCC	Forward
P2	ACCACCGAAACAAGATCCACA	Reverse
P3	AAGGATTATGAGCGGCAGAAGT	Forward

### Expected results



Genotype	Knockout type: -23383bp
	Wild type: P3P2=369 bp
	Heterozygote: P1P2 =629 bp; P3P2=369 bp
	Homozygote: P1P2 =629 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 System	Reaction Component		Volume (μl)		
	ddH <sub>2</sub> O		7.5		
	2×Taq Plus Master Mix		10.0		
	P1 (10 pmol/μl)		0.5		
	P2 (10 pmol/μl)		0.5		
	P3 (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		