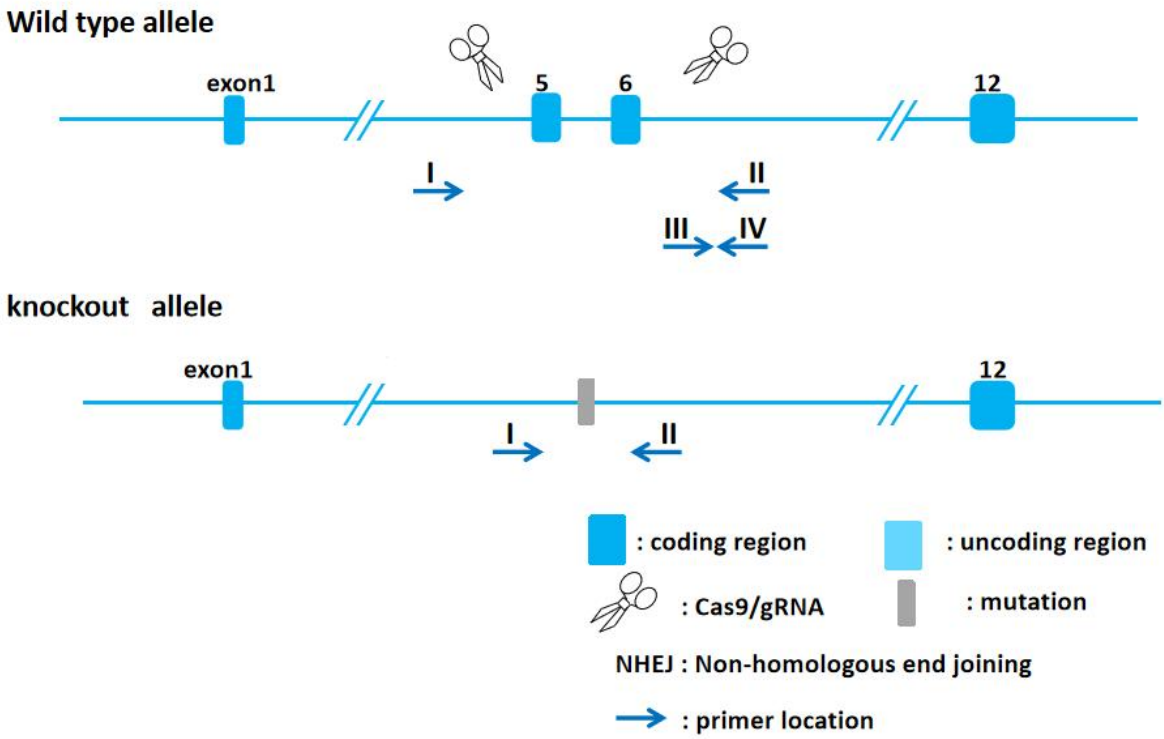
SHANGHAI MODEL ORGANISMS

Editing Genes, Decoding the Mystery of Life

Abl2-KO Genotyping Protocol

Common Name	Abl2-KO	**Cat. NO.**	NM-KO-240967
Strain of Origin	C57BL/6J	**Version**	V1

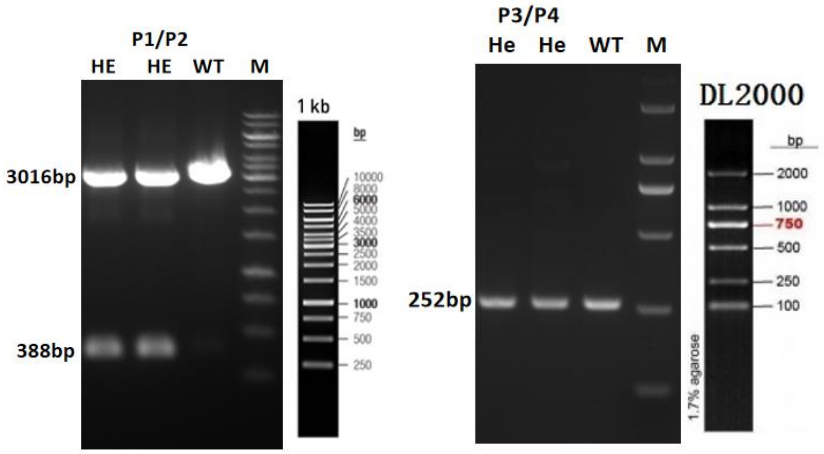
Genotyping strategy



Primers

Primer	Sequence (5’→3’)	Primer type
P1	GAGTCTTTGGAGTGCTGGCT	Forward
P2	CTGCAGCGCAGCCATTTATC	Reverse
P3	GTCCTTGGAGACCAAAGGAGG	Forward
P4	AGCGCAGCCATTTATCTCTTG	Reverse

Expected results

Results	
Genotype	Knockout type: -2635+7bp Wild type: P1P2 =3016 bp; P3P4=252 bp Heterozygote: P1P2 =3016 bp and 388 bp; P3P4=252 bp Homozygote: P1P2 =388 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)
	ddH20	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	