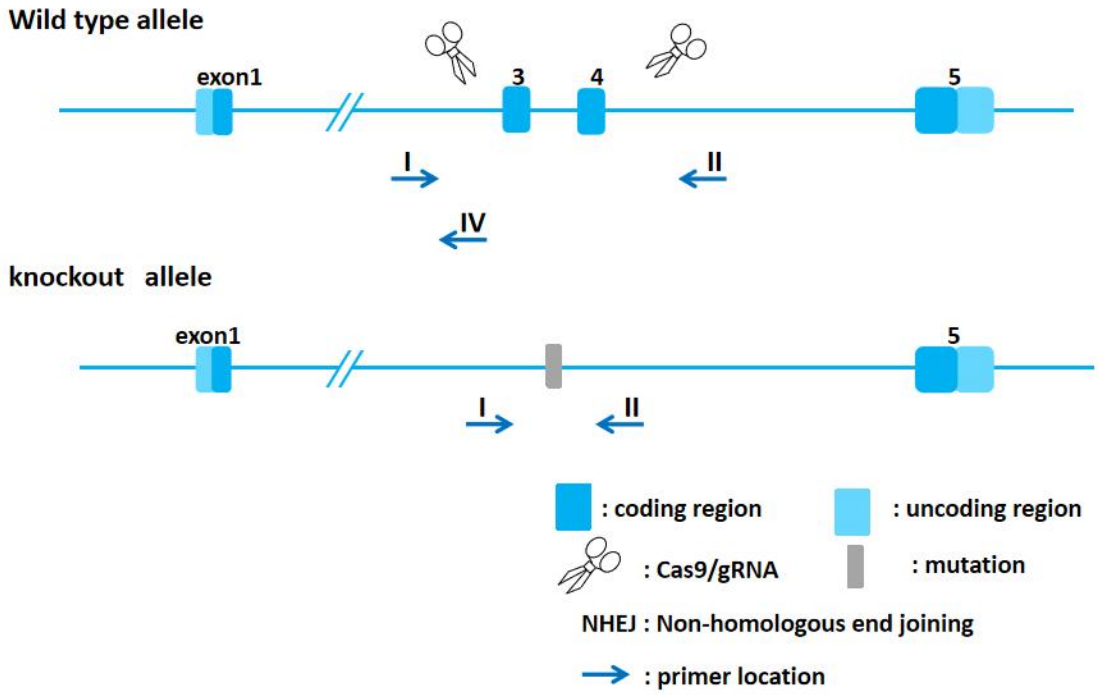
SHANGHAI MODEL ORGANISMS

Editing Genes, Decoding the Mystery of Life

Srd5a2-KO Genotyping Protocol

Common Name	Srd5a2-KO	Cat. NO.	NM-KO-233734
Strain of Origin	C57BL/6J	Version	V1

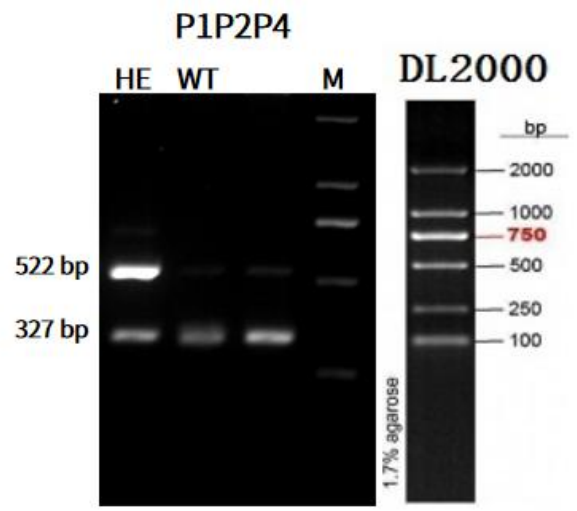
Genotyping strategy



Primers

Primer	Sequence (5' →3')	Primer type
P1	TGCCTATTGGCTCACTACTCCTG	Forward
P2	CTCATCTGCTTTCCTTGCTTGGT	Reverse
P4	GGGGTTATTTGTTTGCTTGTTTGTC	Reverse

Expected results

Results	
Genotype	Knockout type: -3676 bp Wild type: P1P4=327 bp Heterozygote: P1P2 =522 bp; P1P4=327 bp Homozygote: P1P2 =522 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			7.5
	2×Taq Plus Master Mix			10.0
	P1(10 pmol/μl)			0.5
	P2(10 pmol/μl)			0.5
	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	