

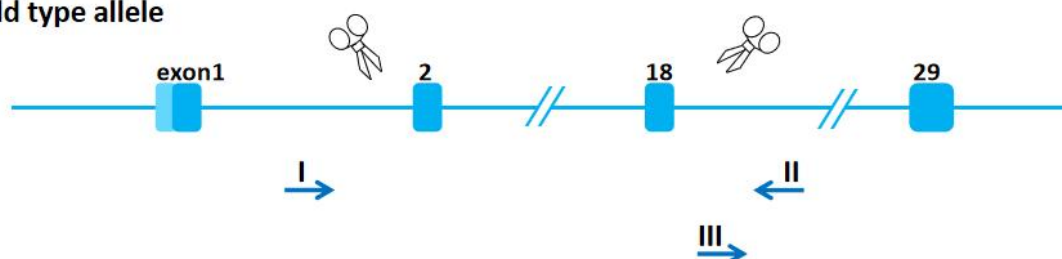
Sycp2l-K0 Genotyping Protocol



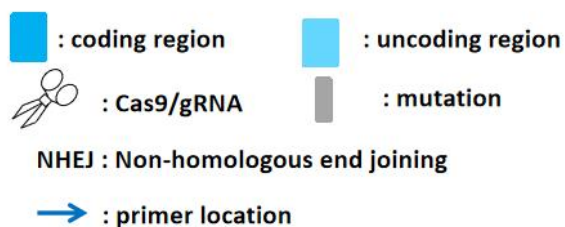
Common Name	Sycp21-KO	Cat. NO.	NM-KO-234520
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



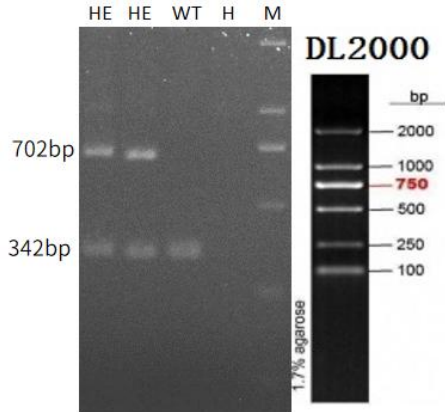
knockout allele



Primers

Primer	Sequence (5' → 3')	Primer type
P1	GTGTTCCCCACTGGTCTAC	Forward
P2	CTTGCCCAGGCATTTGGAT	Reverse
P3	GTCTCAGCCGACAGCAGAAT	Forward

Expected results

Results	
Genotype	Knockout type: -31318bp Wild type: P3P2=342 bp Heterozygote: P1P2 =702 bp; P3P2=342 bp Homozygote: P1P2 =702 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

	Reaction Component	Volume (μl)
PCR	ddH2O	7.5
Reaction	2×Taq Plus Master Mix	10.0
System	P1 (10 pmol/μl)	0.5
	P2 (10 pmol/μl)	0.5

	P3 (10 pmol/ μ l)			0.5
	Genomic DNA			1.0
	Total			20
	2 $\times$ 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	