

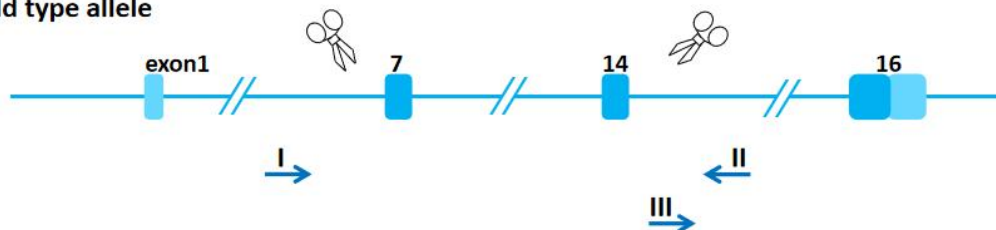
Syvn1-K0 Genotyping Protocol



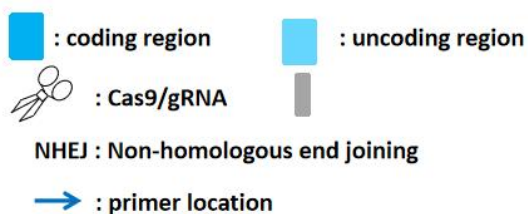
Common Name	Syvn1-K0	Cat. NO.	NM-K0-225163
Strain of Origin	C57BL/6J	Version	V1

Genotyping strategy

Wild type allele



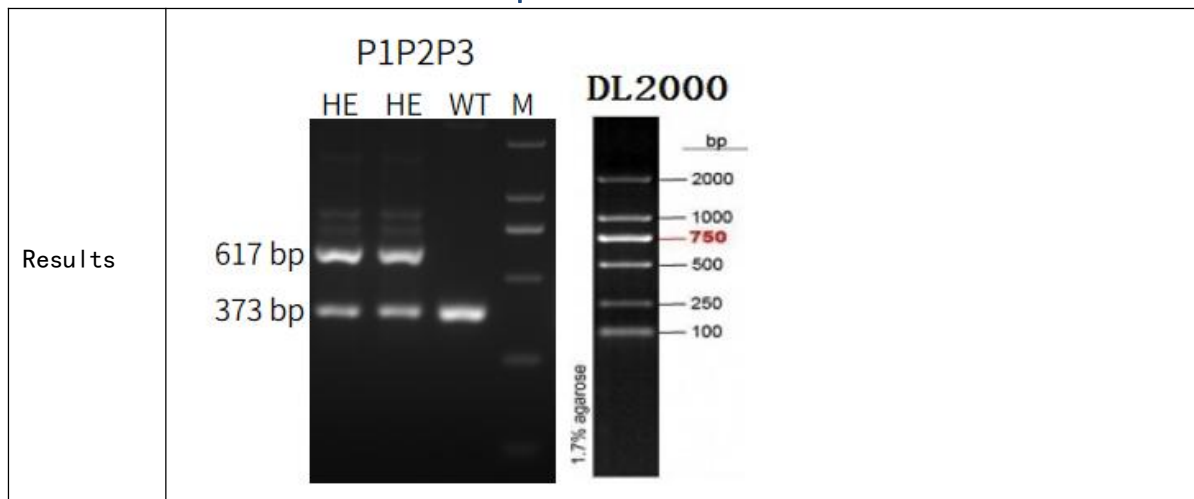
knockout allele



Primers

Primer	Sequence (5' → 3')	Primer type
P1	CAGAGGATTCGGCTTAGGTGTAC	Forward
P2	TAGTCTTCAGTCTCCAGTGATAGGGT	Reverse
P3	ACTCTACCTGCTTTCATCCTTCATT	Forward

Expected results



Genotype	Knockout type: -2452bp
	Wild type: P3P2=373 bp
	Heterozygote: P1P2 =617 bp; P3P2=373 bp
	Homozygote: P1P2 =617 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 ₂ 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	