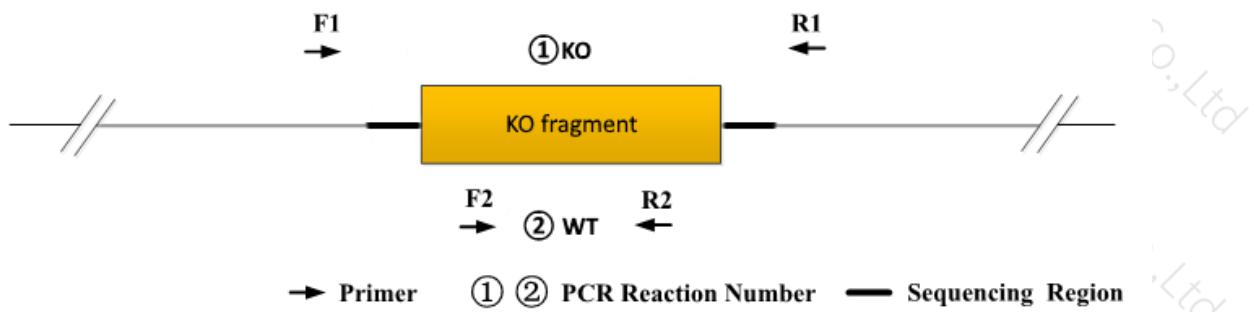




Genotyping Report

Strain ID	T003672	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name			<i>Cd226</i>

1. Strategy of Genotyping



Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.

Heterozygote: ①PCR reaction obtains a WT band and a KO band; ②PCR reaction obtains a WT band.

Homozygote: ①PCR reaction obtains a single KO band; ②PCR reaction without product.

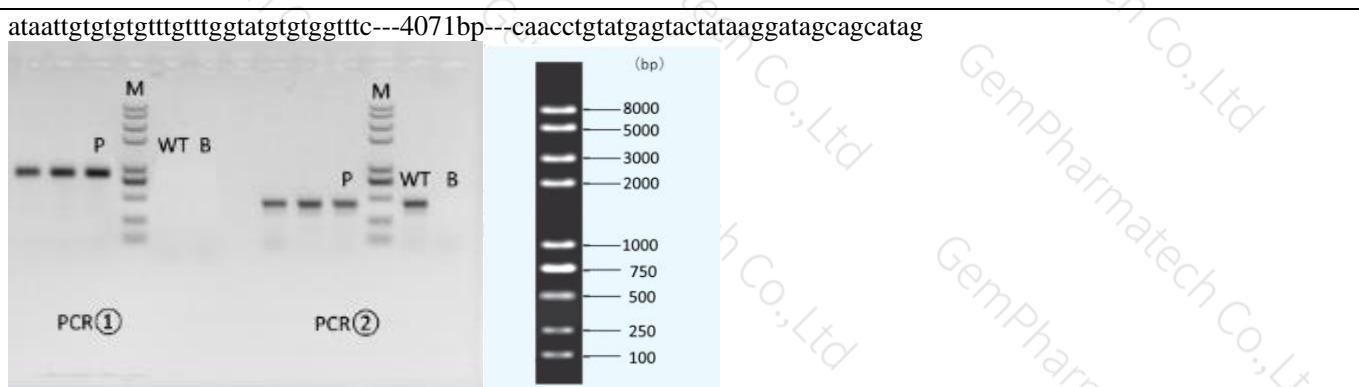
Note: 1)The sizes of WT and Targeted band are shown below.

2)If the WT band is too large, it may not be possible to obtain a WT band.

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
PCR①	T003672-F1	GTCTTATTGACTACCTCCTTGCC	WT:5024bp KO:953bp
	T003672-R1	CAAGACTTCTACCACAAACTCTGC	
PCR②	T003672-F2	GATCATTGGCACTAGTTTCAGC	WT:330bp KO:0bp
	T003672-R2	TGGGTTGTTCTGTTACTTCAGTG	

3. Gel Image





Note: P: Heterozygous samples; WT: Wildtype control; B: Blank control (ddH₂O); M: DNA Ladder

① Control (WT) : It is an important reference mark for whether the PCR reaction is successful and whether the product band position and size meet the theoretical requirements.

② Control (B) : PCR amplification was performed without template in the PCR reagent to monitor whether the reagent was contaminated.

4. PCR Condition

(Generally recommend to use Vazyme P222; If the sequences contain special structures such as GC% ≥ 60% or GC% ≤ 40%, recommend to use Vazyme P515.)

PCR Reaction Component			
Seg.	reaction component	Volume (μl)	
1	2 × Rapid Taq Master Mix(Vazyme P222) or 2 × Phanta Max Master Mix (Vazyme P515)	12.5	
2	ddH ₂ O	9.5	
3	Primer A(10pmol/μl)	1	
4	Primer B(10pmol/μl)	1	
5	Template(≈100ng/μl)	1	
PCR program			
Seg.	Temp.	Time	Cycle
1	95 °C	5min	
2	98 °C	30s	20×
3	65 °C (-0.5 °C/cycle)	30s	
4	72 °C	45s	
5	98 °C	30s	20×
6	55 °C	30s	
7	72 °C	45s	
8	72 °C	5min	
9	10 °C	hold	

Note*: Annealing temperature and extension time can be determined according to the actual amplification situation and amplification enzyme efficiency.