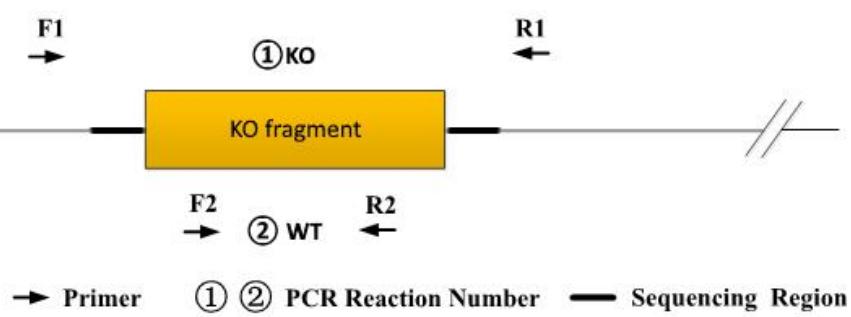




Genotyping Report

Strain ID	T047411	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name			<i>Armh2</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; ② PCR reaction without product.

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

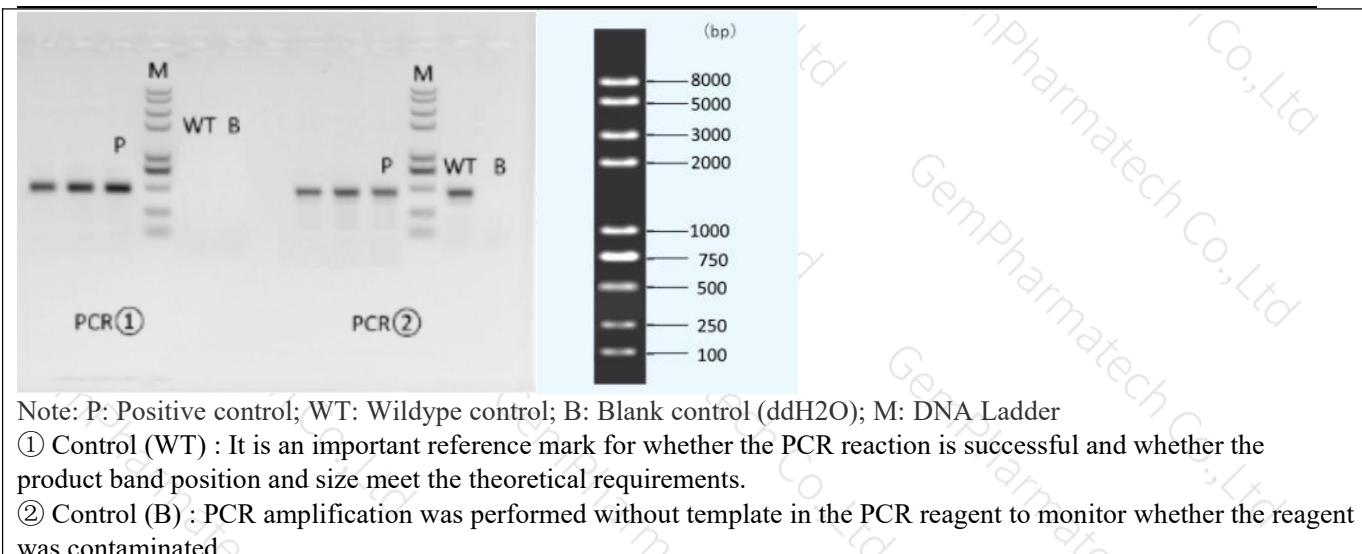
2)If the WT band is too large, it may not be possible to obtain a WT band.

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
PCR①备用	T047411-F1A	AACAGCTTCACTCTACCACATGCTC	WT: 11201bp KO: 496bp
	T047411-R1A	TTTGATAGAGTCAGGATAGCAGCAGC	
PCR②备用	T047411-F1A	AACAGCTTCACTCTACCACATGCTC	WT: 482bp KO: 0bp
	T047411-R2A	AGGGCAGCTATTGTATGTCTTTGC	

3. Gel Image

acagcacctgtacatcgctgtactggc---10705bp---ggcttagtgcaggctgaggactggctgtctgtct



4. PCR Condition

PCR Reaction Component			
Seg.	reaction component	Volume (μl)	
1	2 × Rapid Taq Master Mix (Vazyme P222)	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 ① priority selection

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	

PCR program ② the second choice

Seg.	Temp.	Time	Cycle
1	95°C	5min	
2	98°C	30s	35×



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3	58°C*	30s	
4	72°C	45s*	
5	72°C	5min	
6	10°C	hold	

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