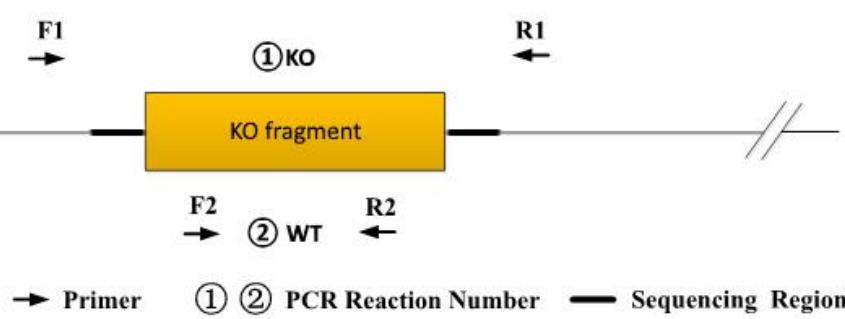




Genotyping Report

Strain ID	T034972	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name			<i>Alpk3</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.

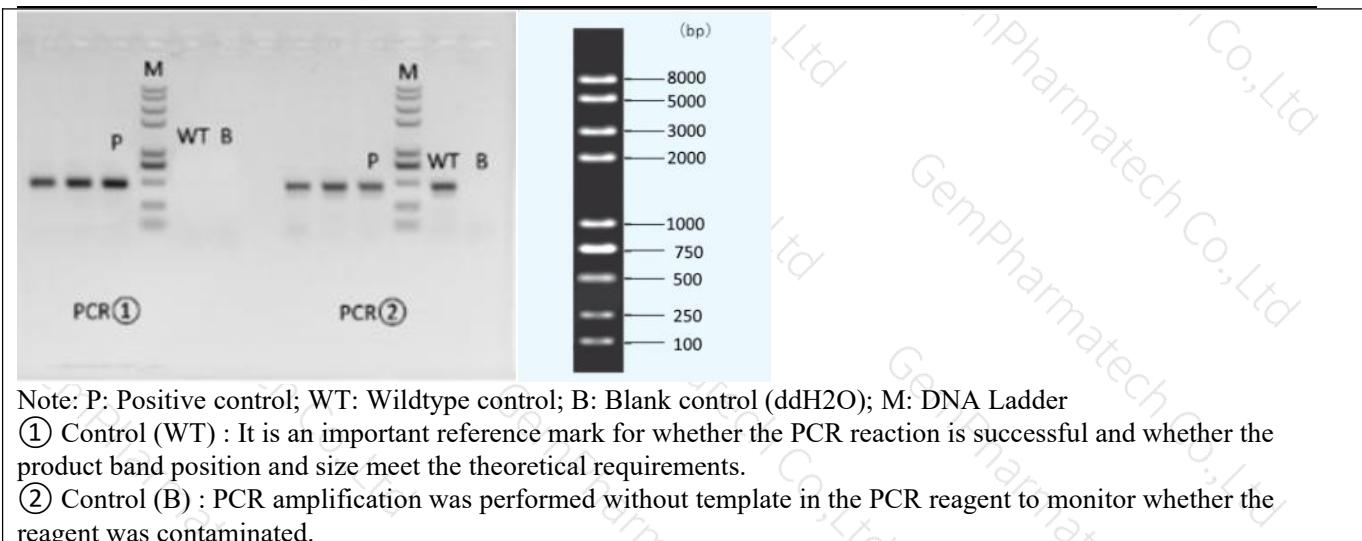
2)If the WT band is too large, it may not be possible to obtain a WT band.

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
PCR①	T034972-F1	AAATGGTCAGATCCTGGTCTGCT	WT: 3930bp KO: 502bp
	T034972-R1	CTTCTGCCTCCTCACGCAAA	
PCR②	T034972-F2	CTCTTGCTTCCTGTCAGGATACCC	WT: 448bp KO: 0bp
	T034972-R2	CCTGAGAGTAGTAATGACGGCACTG	

3. Gel Image

agttgagaggagaggctggactagaggtt---3428bp---ggtgtgtatctggctagtagtgacagtca)



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	20x
2	98 °C	30s	
3	65 °C * (-0.5 °C/cycle)	30s	
4	72 °C	45s *	
5	98 °C	30s	
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	35x
2	98 °C	30s	
3	58 °C *	30s	



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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.