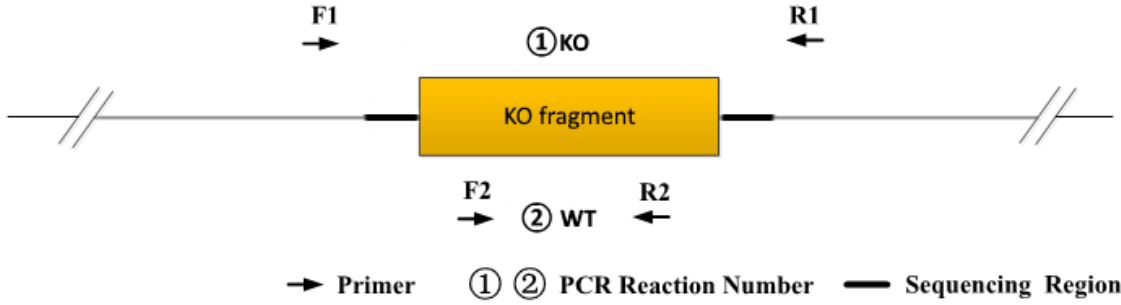


## Genotyping Report

Strain ID	T006737	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	<i>Tlr7</i>		

### 1. Strategy of Genotyping

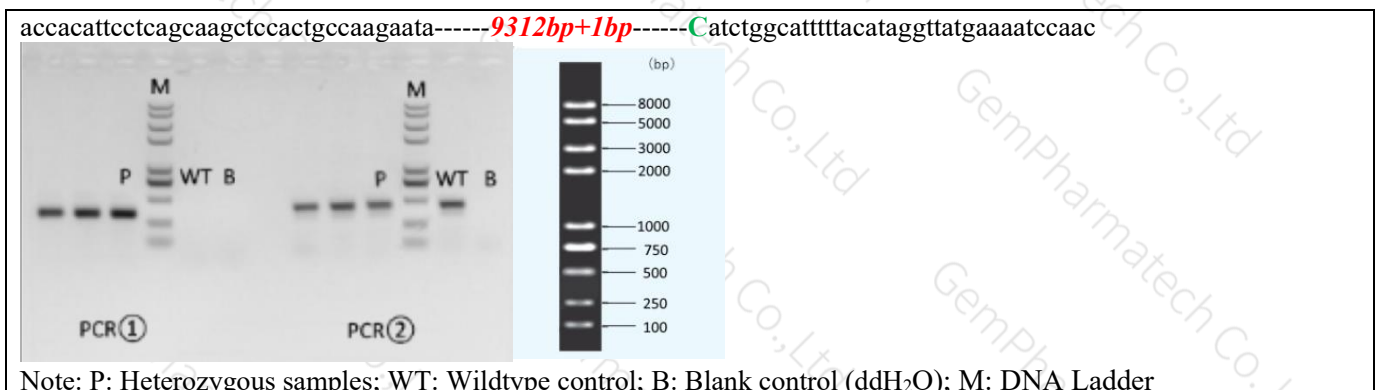


Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.  
 Heterozygote: ①PCR reaction obtains a WT band and a KO band; ②PCR reaction obtains a WT band.  
 Homozygote: ①PCR reaction obtains a single KO band; ② PCR reaction without product.  
 Note: 1)The sizes of WT and Targeted band are shown below.  
 2)If the WT band is too large, it may not be possible to obtain a WT band.  
**X-linked Inheritance (伴X遗传)**

### 2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
PCR① GC%: 38%	T006737-F1	TGCAACAGCATGTGAAACATGAC	WT: 9617bp KO: 306bp
	T006737-R1	GTAGGGAAC TTT CAGGATAGCATTG	
PCR②	T006737-F2	TAATATGAGGCTGGCTCACCCAG	WT:444bp KO:0bp
	T006737-R2	AGAACAATGGGTCTAGTAGGTAGGCG	

### 3. Gel Image



- 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%  $\geq$  60% or GC%  $\leq$  40%, recommend to use Vazyme P515.)

##### PCR Reaction Component

Seg.	Reaction Component	Volume ( $\mu$ l)
1	2 $\times$ Rapid Taq Master Mix(Vazyme P222) or 2 $\times$ Phanta Max Master Mix (Vazyme P515)	12.5
2	ddH <sub>2</sub> O	9.5
3	Primer A(10pmol/ $\mu$ l)	1
4	Primer B(10pmol/ $\mu$ l)	1
5	Template(20~80ng/ $\mu$ l)	1

##### PCR program I priority selection

Seg.	Temp.	Time	Cycle
1	95°C	5min	
2	98°C	30s	20 $\times$
3	65°C*(-0.5°C/cycle)	30s	
4	72°C	45s*	
5	98°C	30s	15 $\times$
6	55°C*	30s	
7	72°C	45s*	
8	72°C	5min	
9	10°C	hold	

##### PCR program II the second choice

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