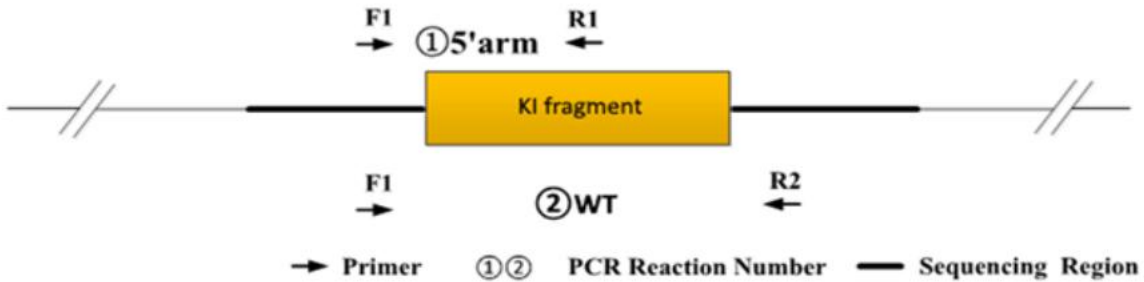


## Genotyping Report

Strain ID	T051136	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name	<i>Ms4a1-P2A-iCre</i>		

### 1. Strategy of Genotyping

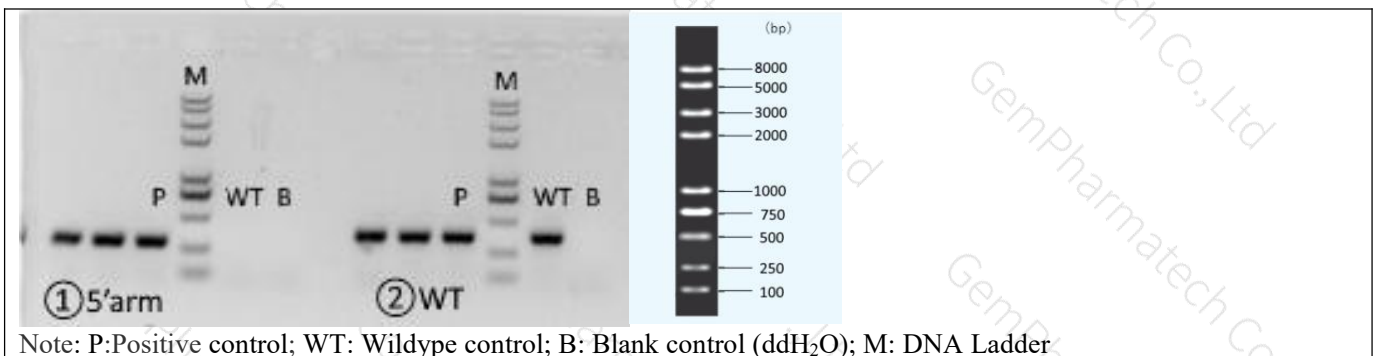


Wild type: ①PCR reaction obtains none band; ②PCR reaction obtains a WT band.  
Heterozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains a WT band.  
Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band.  
Note: The sizes of WT and Targeted band are shown below.

### 2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
①5'arm	F1	T051136-F1	AGCTAAGTGGAGTATCTTCCCAACC	WT:0bp Targeted:310bp
	R1	T051136-R1	CTGACTTCATCAGAGGTGGCATC	
②WT	F1	T051136-F2	AGCTAAGTGGAGTATCTTCCCAACC	WT:356bp Targeted:1484bp
	R2	T051136-R2	AGTGTAAGACTCCCTAAGCAAGGCA	

### 3. Gel Image & Conclusion



#### 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	ddH2O		9.5
3	Primer A(10pmol/ $\mu$ l)		1
4	Primer B(10pmol/ $\mu$ l)		1
5	Template( $\approx$ 100ng/ $\mu$ l)		1
PCR program			
Seg.	Temp.	Time	Cycle
1	95 $^{\circ}$ C	5min	
2	98 $^{\circ}$ C	30s	20 $\times$
3	65 $^{\circ}$ C (-0.5 $^{\circ}$ C/cycle)	30s	
4	72 $^{\circ}$ C	45s	
5	98 $^{\circ}$ C	30s	20 $\times$
6	55 $^{\circ}$ C	30s	
7	72 $^{\circ}$ C	45s	
8	72 $^{\circ}$ C	5min	
9	10 $^{\circ}$ C	hold	