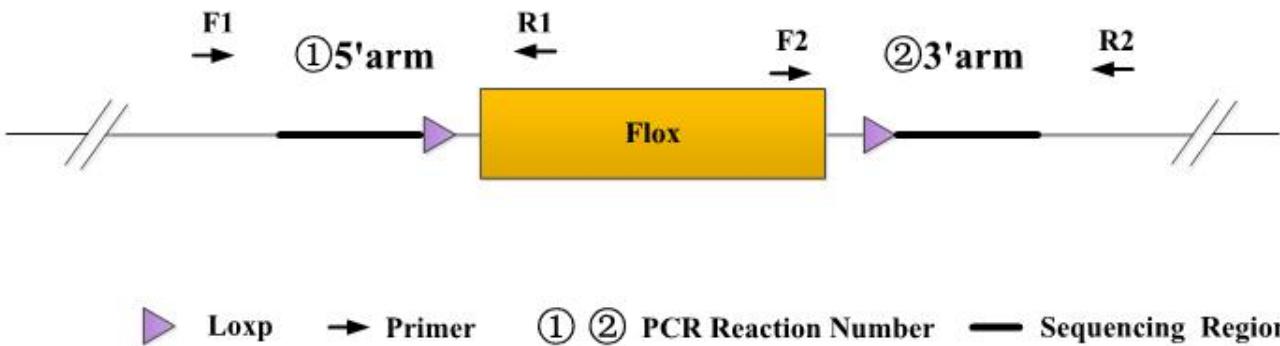




## Genotyping Report

Strain ID	T021857	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name			Galnt7

### 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 Targeted band; ②PCR reaction obtains a WT band and a Targeted band.

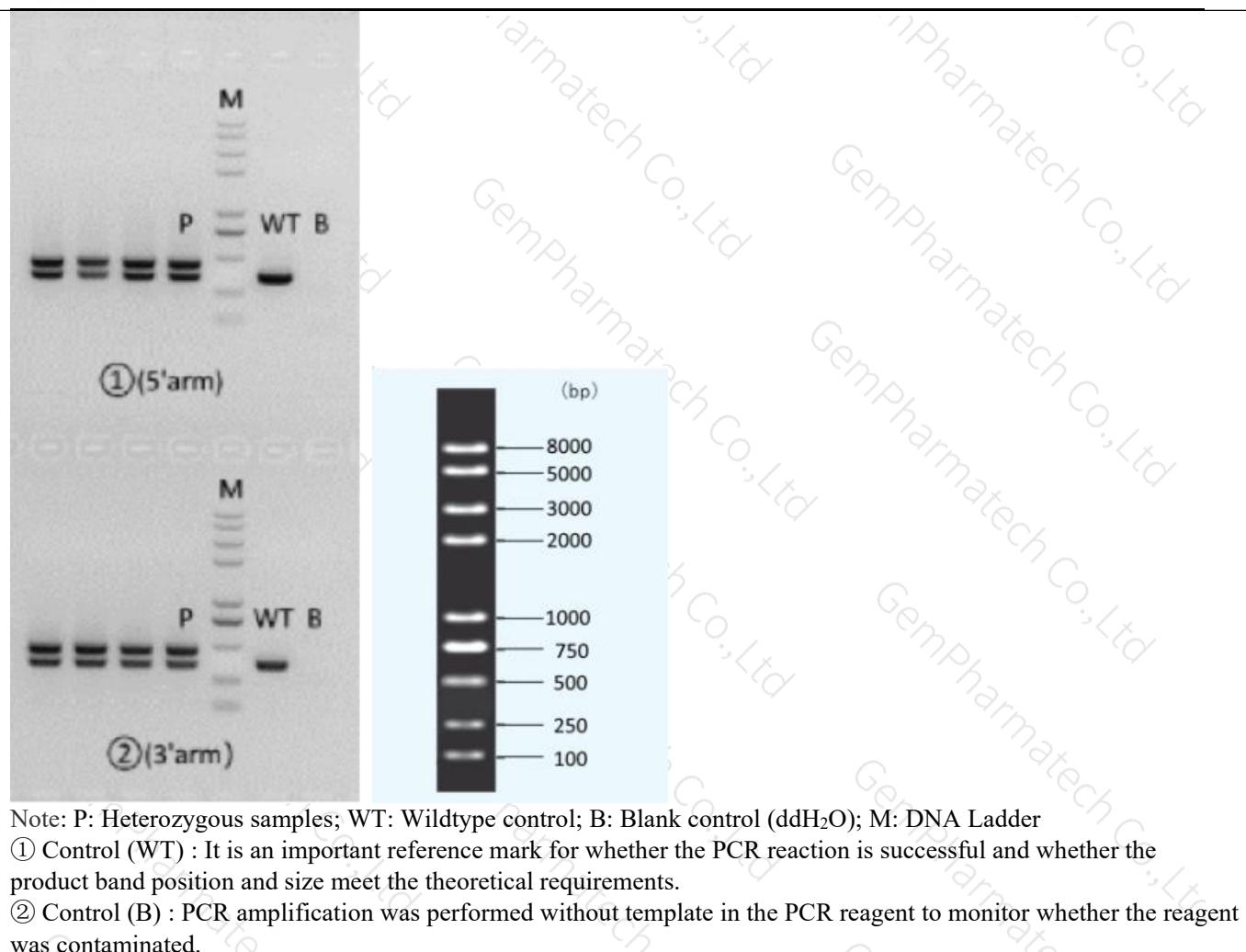
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

### 2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
①(5'arm)	F1	JS22151-Galnt7-5wt-tF1	ACCTATACAAAGGACTCTGCC	WT: 312bp Targeted: 414bp
	R1	JS22151-Galnt7-5wt-tR1	AGGCACTGAGGATTCTGACG	
②(3'arm) GC%:<40%	F2	JS22151-Galnt7-3wt-tF1A	CCAGACTCGCACCAAGTCTATGAGTAC	WT: 448bp Targeted: 551bp
	R2	JS22151-Galnt7-3wt-tR1A	CCCACAGTAGTGGAGCCAATTATTG	

### 3. Gel Image & Conclusion



#### 4. PCR Condition

PCR Reaction Component			
Seg.	reaction component	Volume (μl)	
1	2 × Rapid Taq Master Mix (Vazyme P222)	12.5	
2	ddH <sub>2</sub> O	9.5	
3	Primer A(10pmol/μl)	1	
4	Primer B(10pmol/μl)	1	
5	Template(20~80ng/μl)	1	

PCR program I priority selection			
Seg.	Temp.	Time	Cycle
1	95 °C	5min	
2	98 °C	30s	
3	65 °C * (-0.5 °C/cycle)	30s	20×



江苏集萃药康生物科技股份有限公司  
GemPharmatech Co.,Ltd

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 II the second choice**

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