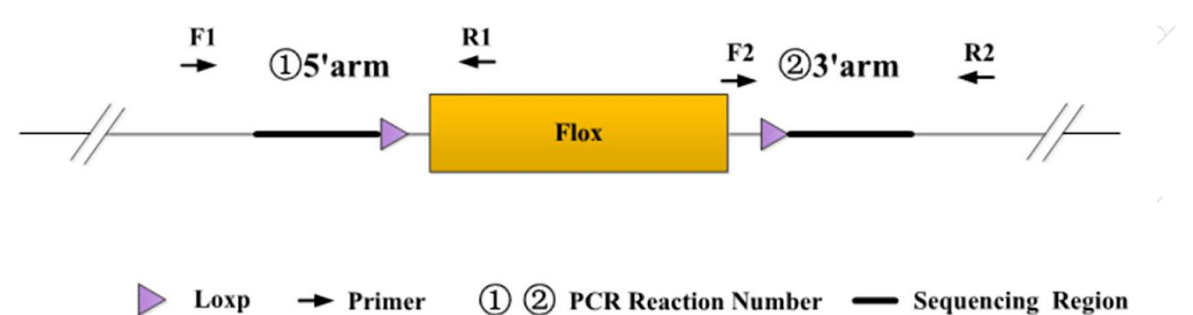


Genotyping Report

Strain ID	T020271	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Yin Chen	Gene Name	<i>Itga6</i>		

1. Strategy of Genotyping

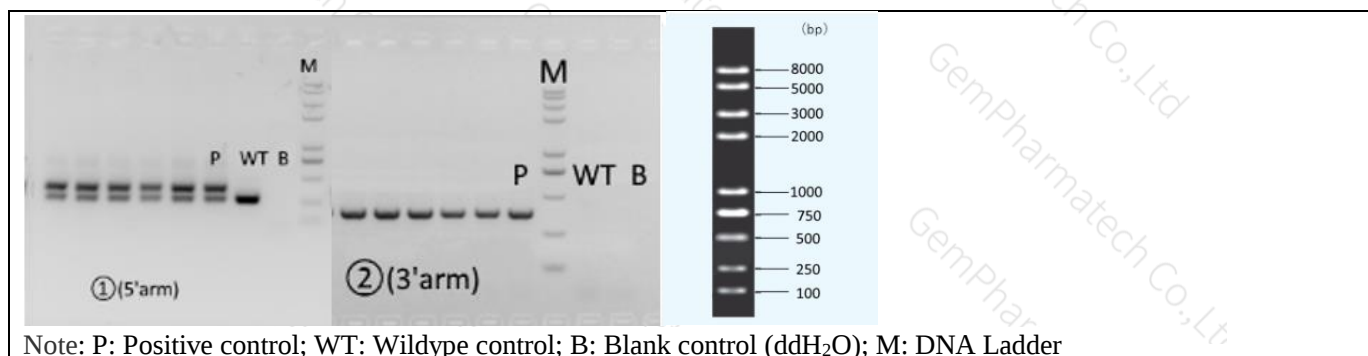


Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains none band.
Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a Targeted band.
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.
Note: The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

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①(5'arm)	T020271-F1	CTTGCGTATACAGACAGCATGAGG	WT:277 bp Targeted:381 bp
	T020271-R1	CAGGTGCCACCATGCCTGATAA	
②(3'arm)	T020271-F2	TCTGAGGCGGAAAGAACCAG	Targeted:365 bp
	T020271-R2	CCTCCTTTCTAACACACCTGATTCC	

3. Gel Image & Conclusion



4. PCR Condition

PCR Reaction Component			
Seg.	reaction component		Volume (μl)
1	2 × Taq Master Mix , Dye Plus, (Vazyme P112-03)		12.5
2	ddH2O		9.5
3	Primer A(10pmol/μl)		1
4	Primer B(10pmol/μl)		1
5	Template(≈100ng/μl)		1
PCR program			
Seg.	Temp.	Time	Cycle
1	95°C	5min	20 ×
2	98°C	30s	
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	