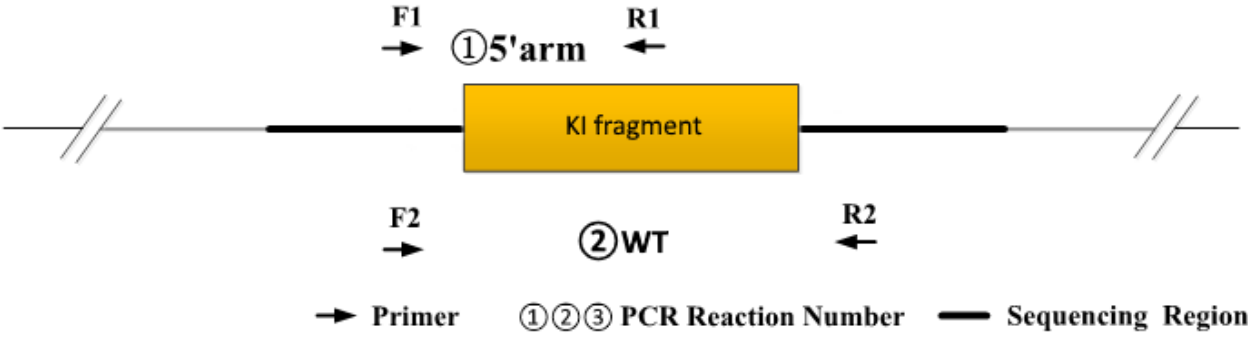


## Genotyping Report

Strain ID	T037659	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Yuting Liu	Gene Name	<i>hAce2</i>		

### 1. Strategy of Genotyping

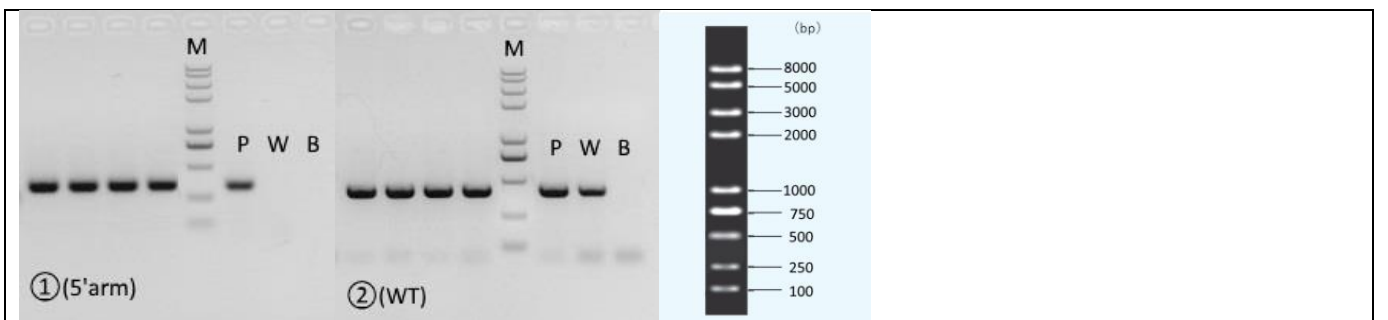


Wild type: ①PCR reaction obtains none band; ②PCR reaction obtains a WT band.  
 Heterozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains a WT band and a Targeted band.  
 Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains a Targeted band.  
 Note: The sizes of WT and Targeted band are shown below.  
 ②PCR reaction is used to verify the presence of wild-type alleles, the targeted band is too large to be amplified.

### 2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
①(5'arm)	F1	XM004126-hACE2-wt-tF1	ACCCAAGTTCAAAGGCTGATGAG	WT: 0bp Targeted: 350bp
	R1	XM004126-hACE2-tR1	GTGGATACATTTGGGCAAGTGTGG	
②(WT)	F2	XM004126-hACE2-wt-tF1	ACCCAAGTTCAAAGGCTGATGAG	WT: 400bp Targeted: 2702bp
	R2	XM004126-hACE2-wt-tR1	CAGTCACTCATCCTCACACTTGAGAG	

### 3. Gel Image & Conclusion



Note: P:Positive control; WT: Wildtype control; B: Blank control (ddH<sub>2</sub>O); M: DNA Ladder

#### 4. PCR Condition

PCR Reaction Component			
Seg.	reaction component		Volume (μl)
1	2 × Taq Master Mix , Dye Plus, (Vazyme P112-03)		12.5
2	ddH <sub>2</sub> O		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℃	5min	
2	98℃	30s	20×
3	65℃ (-0.5℃/cycle)	30s	
4	72℃	45s	
5	98℃	30s	20×
6	55℃	30s	
7	72℃	45s	
8	72℃	5min	
9	10℃	hold	