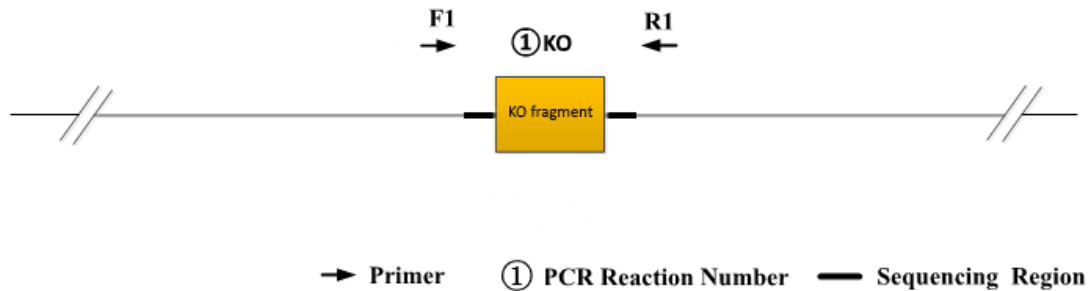


Genotyping Report

Strain ID	T004484	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	<i>Atp2a2</i>		

1. Strategy of Genotyping



Wild type: ①PCR reaction obtains a single WT band.

Heterozygote: ①PCR reaction obtains a WT band and a KO band.

Homozygote: ①PCR reaction obtains a single KO band.

Note: 1)The sizes of WT and Targeted band are shown below.

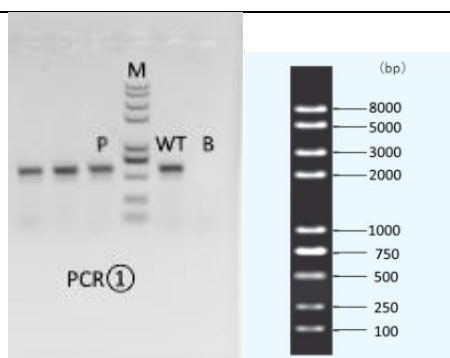
2)If the KO fragment ≤ 20 bp, the genotype should be confirmed by Sequencing.

Sequence: ACAAACATCTTGCTCATGGATGTCCGGCTTGGCTTG--*4bp*--
GGGTACAATAGACGGACATTGATTTTCTATCCCG

2. Primer Information

PCR No.	Primer Name	Sequence	Band Size
PCR①	0000001-Atp2a2-wt-tF1	GGCTGTGCTATCAGTTCTCAATAGC	WT: 666bp KO: 666bp
	0000001-Atp2a2-wt-tR1	CTCTCTCTTCAGTGGGTTGTCATG	

3. Gel Image



Note: WT: Wildtype control; N: Blank control (ddH₂O); 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	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℃	5min	20×
2	98℃	30s	
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	