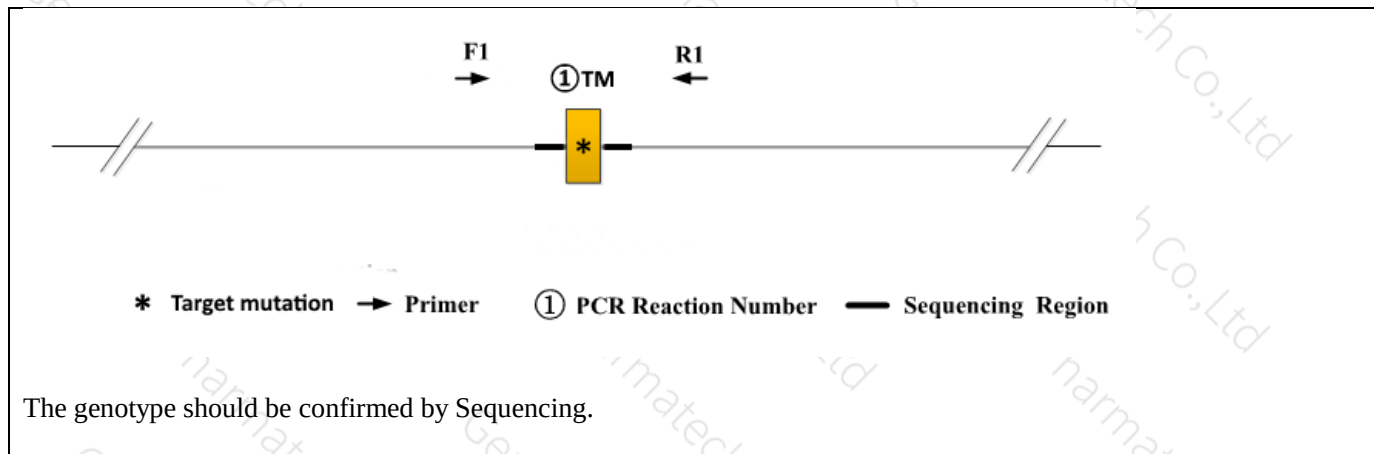


Genotyping Report

Strain ID	T050868	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tianjiao Wang	Gene Name	Rab5a-F57A		

1. Strategy of Genotyping



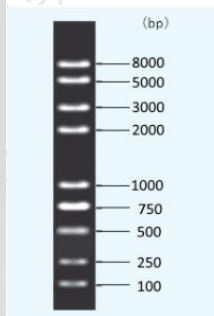
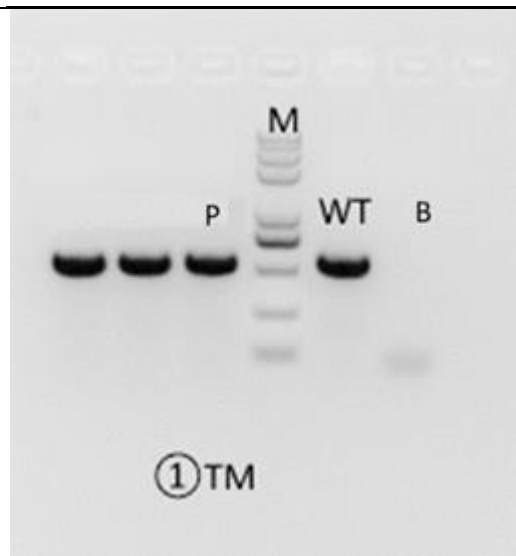
2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
①TM	T050868-F1	ACAGTGGAGGGAAGAACCCATT	WT:562bp Targeted:562bp
	T050868-R1	AACCACTACTCTAGGGTGACCCTGT	

Sequencing:

Primer Name	Sequence	
JS06267-Rab5a-wt-tR1	AACCACTACTCTAGGGTGACCCTGT	①TM
JS06267-Rab5a-wt-tF1	ACAGTGGAGGGAAGAACCCATT	

3. Gel Image



Note: P: Positive control; WT: Wildtype control; B: 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°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	