

Genotyping Report

Strain ID	T027456	Strain Type	KO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	Smc1b		

1. Strategy of Genotyping



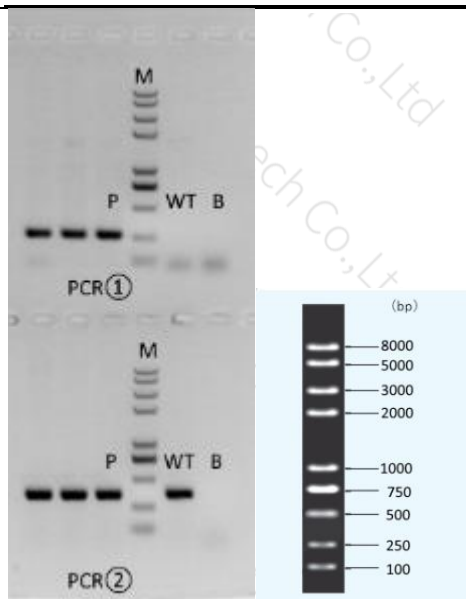
Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band.
Heterozygote: ①PCR reaction obtains a WT band and a KO band; ②PCR reaction obtains a WT band.
Homozygote: ①PCR reaction obtains a single KO band; ② PCR reaction without product.
Note: 1)The sizes of WT and Targeted band are shown below.
2)If the WT band is too large, it may not be possible to obtain a WT band.

2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size
PCR①	F1	JS08389-Smc1b-5wt-tF1	GGAGTAGTCATTGGACAATTTTCTC ACT	WT:6086bp KO: 253bp
	R1	JS08389-Smc1b-3wt-tR1	ATCGGTAATTCCAGCTCCAGGAGAT	
PCR②	F2	JS18389-Smc1b-wt-F1	AGTGCTCTTAACCACTGAGCCATCT C	WT:333bp KO:0 bp
	R2	JS18389-Smc1b-wt-R1	TTGGTGGAGACAGAATGACATGGT	

3. Gel Image

taaaggagctagaactgtaggccatgtcac---5841bp---AGAAAAAagaaaaagtggtgacttaagtaatttttag



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℃	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	

Reviewer:Ting Sun

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