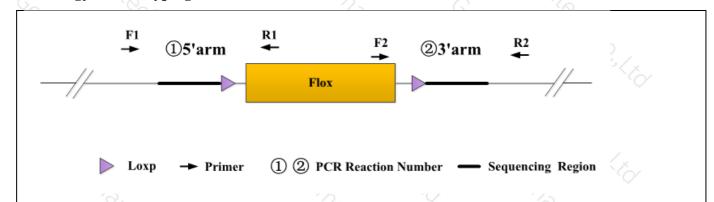
Genotyping Report

Strain ID	T040541	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	3	Wdr78	S

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 Targeted band; ②PCR reaction obtains a WT band and a Targeted band.

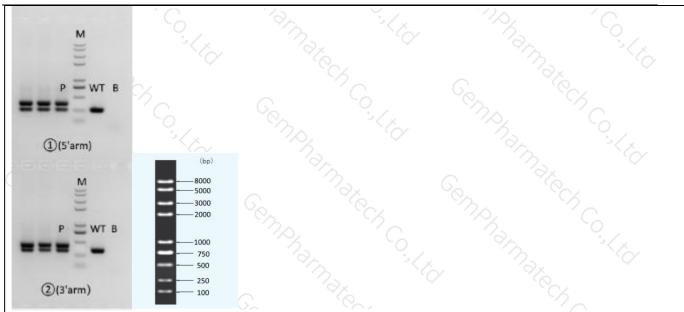
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size	
①(5'arm)	T040541-F1	TTTCTAGCTCTTTGTTGAAGCCC	WT: 246bp	
	T040541-R1 AAAGGTGGCTGATAAGTAACAGCAG		Targeted: 351bp	
②(3'arm)	T040541-F2	ACTGCCATTGAGTCTTCGAGTTC	WT: 369bp	
	T040541-R2 CCTGCAAGATAGGGTAAGAGAGTG		Targeted: 475bp	

3. Gel Image & Conclusion



Note: P: Positive control; WT: Wildype control; B: Blank control (ddH2O); M: DNA Ladder

- ① Control (WT): It is an important reference mark for whether the PCR reaction is successful and whether the product band position and size meet the theoretical requirements.
- ② Control (B): PCR amplification was performed without template in the PCR reagent to monitor whether the reagent was contaminated.

4. PCR Condition

PCR Reaction Com	pponent	×	7/2 · C	
Seg.	reaction co	Volume (μl)		
1	2 × Rapid Taq Master Mix (Vazyme P222)		12.5	
2	ddH2O		9.5	
3	Primer A(10pmol/μl)) _C	17	
4	Primer B(10pmol/μl)		1	
5	Template(≈100ng/μl)	(SC 17)	1	
PCR program ① p	priority selection	<u> </u>	9h. 3/x	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	CY C	
2 🔾	98℃	30s	20×	
3	65℃* (-0.5℃/cycle)	30s		
4	72℃	45s*	7	
5	98℃	30s	20×	
6	55℃*	30s	478	
7	72℃	45s*	202 "C	
8	72°C	5min	9/2 3/X	



9	10℃	19/2	hold	70	· (C)
PCR program	1 ② the second choice	73×		9/2	5/x
Seg.	Temp.		Time	Cycle	
1	95℃	G.	5min	Con .	, C/2,
2	98℃	· 72.	30s	35×	0,
3	58°C*	792	30s	(h)	
4	72℃		45s*	30	
5 70/	72℃	G _C	5min	70,	70
6	10 ℃	700	hold	29/	3/,

Note*: Annealing temperature and extension time can be determined according to the actual amplification situation and amplification enzyme efficiency.