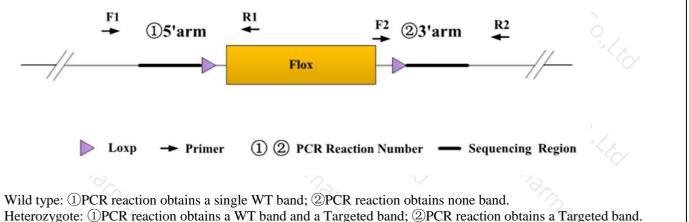


		Genotyp	ing Report		~~< ×
Strain ID	T039893	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	· · < z	Marchf2	°C
Yr.	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	$\langle \mathcal{O} \rangle$	\sim		3/5

1. Strategy of Genotyping

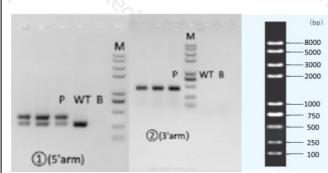


Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a Targeted band. Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a Targeted band. Note: The sizes of WT and Targeted band are shown below.

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size
1)(5'arm)	T039893-F1 CACTCCCTTGGCCAAGCAAATAC		WT: 251bp Targeted: 356bp
	T039893-R1 AAGGTCACTAGATCCTCTGATCC		
@(3'arm)	T039893-F2	CATCGCATTGTCTGAGTAGGTG	WT: 0bp Targeted: 450bp
	T039893-R2	GTCACCAGCCATCTTGTTTGAGAC	

3. Gel Image & Conclusion



Note: P:Positive control; WT: Wildtype control; B: Blank control (ddH_2O); 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	Component	Υ. C	an itr		
eg.	reaction	reaction component			
2000	2 × Rapid Taq Master Mix (Vazyı	2 × Rapid Taq Master Mix (Vazyme P222)			
2 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ddH2O	Charles Marine Charles	9.5		
3 24	Primer A(10pmol/µl)	G			
ł	Primer B(10pmol/µl)				
5	Template(≈100ng/µl)	Template(≈100ng/μl)			
PCR program (① priority selection	C/S	c C		
Seg.	Temp.	Time	Cycle		
ı ^	95°C	5min			
2	98°C	30s	20×		
3 62	65℃*(-0.5℃/cycle)	30s			
1 7	72°C	45s*	γ_{λ} γ_{C}		
5	98°C	30s	20×		
5	55℃ *	30s	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	72°C	45s*	2 Charles		
3	72°C	5min	No.		
)	10℃	hold	AN XE		
PCR program (② the second choice	The C	97.		
Seg.	Temp.	Time	Cycle		
	95°C	5min			
2	98°C	30s	35×		
3	58℃*	30s	2°2		
• G	72°C	45s*	0 6		
; [°] >,	72℃	5min			
5	10°C	hold			

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