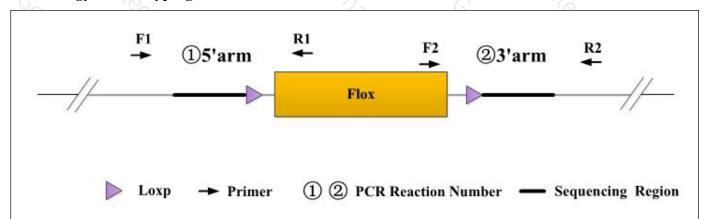


Genotyping Report

Strain ID	T039410	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name	3/25	Ascc1	°C -

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.

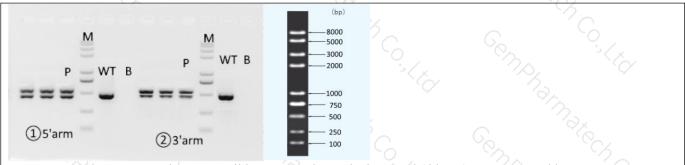
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size	
①(5'arm)	F1	T039410(P2)-F1	TGCTACCGTGTTCCATGCCAG	WT: 451bp	
	R1	T039410(P2)-R1	ACATGGCCAGAAACACTCCC	Targeted: 556bp	
②(3'arm)	F2	T039410(P2)-F2	GGGGTTCATAATTCAAACAGG	WT: 482bp Targeted: 588bp	
	R2	T039410(P2)-R2	ATCCCAGGGGCTAACAGACCA		

3. Gel Image & Conclusion



Note: P: Heterozygous samples; WT: Wildtype 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

(Generally recommend to use Vazyme P222;If the sequences contain special structures such as $GC\% \ge 60\%$ or $GC\% \le 40\%$, recommend to use Vazyme P515.)

PCR Reaction Com	ponent	25 6-	900
Seg.	reaction con	reaction component	
1 ⁷ 3/773.	or State of the st	2 × Rapid Taq Master Mix(Vazyme P222)	
2		ddH2O	
3	Primer A(10)	Primer A(10pmol/μl)	
1 8	Primer B(10)	Primer B(10pmol/µl)	
5 %	Template(20~80ng/μl)		10,
PCR program I p	riority selection) _{X.}	9/2
Seg.	Temp.	Time	Cycle
1 870,	95℃	5min	24
2 70/2	98°C	30s	20×
. 7.	65°C* (-0.5°C/cycle)	30s	
1 E	72℃	45s*	760
170,	98°C	30s	15×
9/2	55℃*	30s	30/2
7	72℃	45s*	()
800	72℃	5min	°C/
7%	10°C	hold	3 6
PCR program II	the second choice		9/2 3/x.
Seg.	Temp.	Time	Cycle
1	95℃	5min	,60h
	98°C	30s	35×
1 7/2	58℃*	30s	?\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
1	72℃	45s*	19/2
5	72°C	5min	DAX.
5 8/2	10℃	hold	5 6

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

Nohalmakech Co. Kky Athalia Ch Co. Kity (C)-3/X ~...\ ~...\ and amplification enzyme efficiency. io.