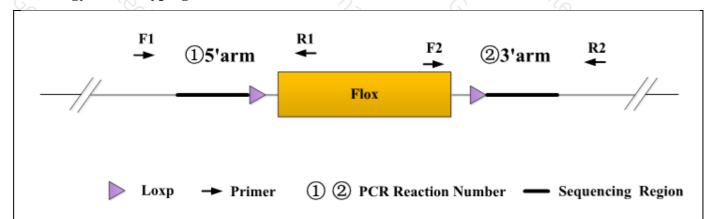


Genotyping Report

Strain ID	T025801	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Binjie Jiao	Gene Name	3/2	Rnf144a	0)

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.

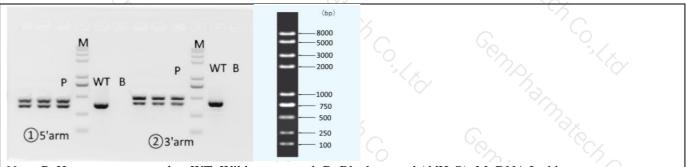
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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	T025801(P2)-F1	GCCTCCCATAGATGACGATGAGTT	WT: 344bp	
	R1	T025801(P2)-R1	GGGGGTTGCATATTATGTATCCTGC	Targeted: 449bp	
②(3'arm)	F2	T025801(P2)-F2	GAAATAGGTGTGTGGAGTGGAATG	WT:408bp	
	R2	T025801(P2)-R2	CACAGGTGTATCCTGCTCCGAAT	Targeted:514bp	

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 Comp	onent	S G	96	
Seg.	reaction comp	onent	Volume (μl)	
1 73773	2 × Rapid Taq Master Mi or 2 × Phanta Max Master M		12.5	
2	ddH2O	< / /	9.5	
3	Primer A(10pm	nol/μl)	1 7	
4	Primer B(10pm	nol/μl)	1 3/x	
5	Template(20~80	1),		
PCR program I pri	ority selection		9/2	
Seg.	Temp.	Time	Cycle	
1 870	95℃	5min	, °C/3	
2	98℃	30s	20×	
3	65℃* (-0.5℃/cycle)	30s	775	
4	72 ℃	45s*		
5	98℃	30s	15×	
6	55℃*	30s	77/2 3/X	
7	72℃	45s*	(A)	
8	72℃	5min	- CX	
9	10°C	hold	6	
PCR program ${ m II}$ th	e second choice		3/x.	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	,62%	
2	98℃	30s	35×	
3	58℃*	30s	20,	
4	72℃	45s*	200	
5	72℃	5min	D _D x	
6	10°C	hold	, CX	

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

Nohannakech Co. Lky Armakech Co. Ling and amplification enzyme efficiency. tio.