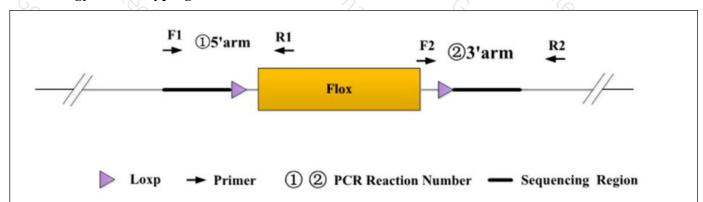


Genotyping Report

Strain ID	T052333	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name	3/2	Fam98a	°C .

1. Strategy of Genotyping



Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains none band.

Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a Targeted band.

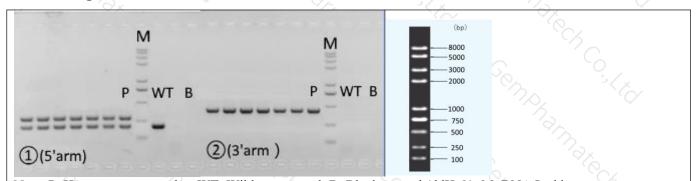
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a Targeted band.

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

2. Primer Information

PCR No.	Primer No.	PrimerName	Sequence	Band Size	
①(5'arm)	F1	T052333-F1	ATGTGTGAGGCGAGCATTCT	WT:169bp Targeted:271bp	
	^_R1	T052333-R1	GGAAACAGAGAAGAACCTTTGCCC		
②(3'arm)	F2	T052333-F2	CATCGCATTGTCTGAGTAGGTG	WT:0bp Targeted:407bp	
	R2	T052333-R2	GCTCTACCTATGACAGGAAGAAGCAG		

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	29/2		,	7	Ŷ	
Seg.		reaction component			Volume (μl)		
1	0,	2 × Rapid Taq Master Mix(Vazyme P222) or 2 × Phanta Max Master Mix (Vazyme P515)			9.5	×	
2	<u> </u>	ddH2O				9	
3	`S	Primer A(10pmol/μl)					
4	6	Primer B(10pmol/µl)			1		
5	344	Template(20~80ng/μl)			1 34	V	
PCR program I pi	riority selection	9/2	***	4	73,		
Seg.	Temp.		Time		Cycle		
1 6	95℃		5min		97.00		
2	98℃	27.	30s	77	20×		
3	65°C* (-0.5°C/cy	cle)	30s		9/2	5 5 2	
4	72℃	, CO	45s*		70x		
5	98℃		30s	Con .	15×		
6	55℃*	(°)	30s / ×	70	(6)		
7	72℃	77	45s*		9/2		
8	72℃	4/7 ₂	5min		79%	7	
9	10°C	C.	hold	92	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
PCR program II t	the second choice	°>>>	7	17%	, G	4	
Seg.	Temp.		Time		Cycle		
1	95℃		5min		19X		
2	98℃	C.	30s		35×		
3	58℃*		30s	00	3/x		
4	72 ℃	9/2	45s*		19		
5	72℃	9/2	5min		9/2		
6	10℃		hold		975		
					· (V		

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