

		- Co - Kr	Genotyp	ing Report		
Strain ID	1 C	T039815	Strain Type	CKO(Cas9)	Genetic Background	l C57BL/6JGpt
Designer	Ŋ	a'nan Xu	Gene Name		Rnf44	20
. Strategy of	Geno	typing	noh-a		(armar	"
	F1	1)5'arm	R1 ◀	F2 ②3	'arm <mark>₹</mark>	
11			Flox		11	

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.

Primer

1 2 PCR Reaction Number - Sequencing Region

2. Primer Information

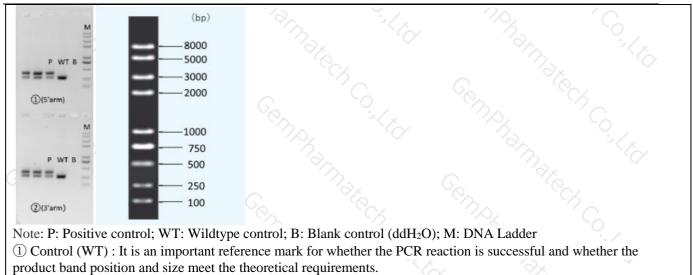
Loxp

PCR No.	Primer No.	Sequence	Band Size	
(1)(5'arm)	T039815-F1AGCCGGTCAGTAACAGCAGTGAATCT039815-R1CTCAGCCAACAAACCTATGGTCATC		WT: 266bp	
			Targeted:370bp	
(2)(3'arm)	T039815-F2	AGAAGTGAGGAAGTCCACTAGGCAG	WT: 286bp	
	T039815-R2	ATTACAGGCATTCGACACCACTGC	Targeted:392bp	

3. Gel Image & Conclusion



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⁽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			
Seg.	reaction co	reaction component		
1 7	2 × Rapid Taq Master Mix (Vazyme	2 × Rapid Taq Master Mix (Vazyme P222)		
2	ddH2O		9.5	
G	Primer A(10pmol/µl)	°Y	1	
- C >>~	Primer B(10pmol/µl)	Co Co	1 3	
; 7.	Template(≈100ng/μl)			
PCR program	① priority selection		The sta	
Seg.	Temp.	Time	Cycle	
1 $n_{s_{i}}$	95°C	5min		
2 97	98°C	30s	20×	
;	65℃*(-0.5℃/cycle)	30s		
Ļ	72°C	45s*	°C X	
G	98°C	30s	20× 6	
i N	55°C*	30s		
,	72°C	45s*		
3	72 °C	5min	and -	
	10° C	hold		
PCR program	② the second choice		ns. no	
Seg.	Temp.	Time	Cycle	



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1	i Pha	95°C	arp.	5min	100	í S
2	n n	98°C		30s		35×
з (58℃*	~~	30s	G	
4	ns,	72℃	C _R	45s*	Cho.	A C
5	ng pr	72℃ ·<	$\gamma_{\mathcal{O}_{L}}$	5min		
6	ng x	10°C	200	hold		

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