

	s. Str	Genotyp	oing Report		
Strain ID	T052083	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JG
Designer	Ya'nan Xu	Gene Name	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	grm4	$^{\circ}$ C
Strategy of					
_//	F1 → ①5'arm	R1	F2 → ②3'	arm <b>€</b>	0.4.84
_//		← Flox		arm <del>R2</del>	o. L. K. J.

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.

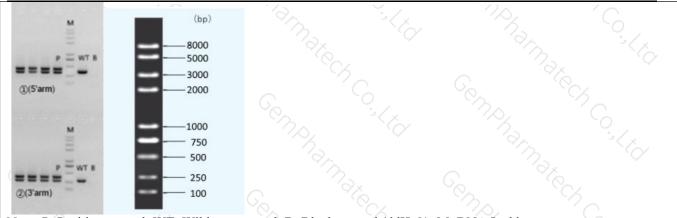
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band. Note: The sizes of WT and Targeted band are shown below.

## 2. Primer Information

PCR No.	Primer No.	Sequence	Band Size	
①(5'arm)	T052083-F1	CCAAACAGTGGAGAGAAAGGATCTCTC	WT: 318bp	
	T052083-R1	TACCTCCTGCATACAACGAGCTTG	Targeted: 423bp	
②(3'arm)	T052083-F2	TGCAGGCATAAGCCTACTGCAAT	WT: 287bp	
	T052083-R2	AGGTTTACAGAAGCCAGCAGCACA	Targeted: 393bp	

## 3. Gel Image & Conclusion

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Note: P: Positive control; WT: Wildtype control; B: Blank control (ddH<sub>2</sub>O); 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	C.	17.3×	
Seg.	reaction co	reaction component		
1 2	2 × Rapid Taq Master Mix (Vaz	2 × Rapid Taq Master Mix (Vazyme P222)		
2	ddH2O	×	9.5	
3	Primer A(10pmol/µl)	Primer A(10pmol/µl)		
4 %	Primer B(10pmol/µl)	S S	1 8	
5 %	Template(≈100ng/µl)	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	201 (C	
PCR program	① priority selection	· · ·	an ite	
Seg.	Temp.	Time	Cycle	
1 7,5,	95°C	5min		
<u>2</u> ??,	98°C	30s	20×	
3	65°C* (-0.5°C/cycle)	30s		
1	72°C	45s*		
5	98°C	30s	20×	
5 %	55°C*	30s		
7	72°C	45s*		
3	72°C	Smin 5	Ph	
) C	10°C	hold	270	
PCR program	<sup>2</sup> the second choice	6	S. S.	
Seg.	Temp.	Time	Cycle	



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1	- Char	95°C	ann.	5min	100	í Co
2	n.	98°C		30s		35×
3 (	S. 76	58℃*	3	30s	C.	
4	$\gamma_{\mathcal{O}_{\mathcal{O}_{\mathcal{O}_{\mathcal{O}}}}}$	72℃	G <sub>R</sub>	45s*	- Cha	
5	730-	72°C	$\gamma_{\mathcal{S}_{L}}$	5min		De Sla
6	nax.	10°C	73/12	hold		N. C

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