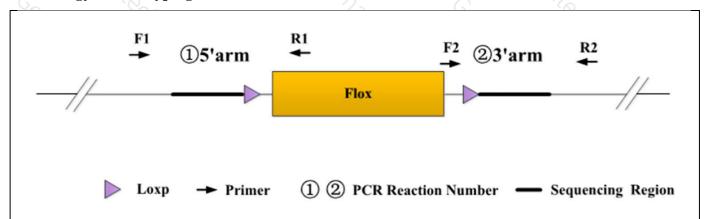


# **Genotyping Report**

Strain ID	T019314	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Binjie Jiao	Gene Name	3/X/	Trpv5	9

## 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.

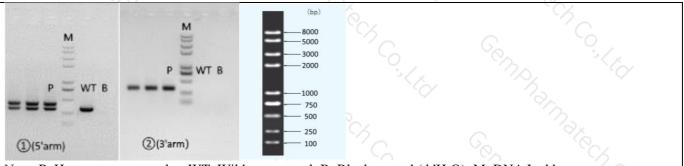
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a Targeted band.

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

#### 2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size	
①(5'arm)	F1	JS09608-Trpv5-5wt-tF1	TCTGTGATGTTCCTGAGTAGGAGTG	WT:307 bp	
	R1 🔍	JS09608-Trpv5-5wt-tR1	CAGAAAGGAACTCATGCCTGGTAC	Targeted:411 bp	
②(3'arm)	F2	Neo-3F	TCTGAGGCGGAAAGAACCAG	WT:0 bp	
	R2	JS09608-Trpv5-3wt-tR1	CCTGGATTGGCAAGCATATCTAG	Targeted:302 bp	

# 3. Gel Image & Conclusion



Note: P: Heterozygous samples; 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

(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.)

GC% ≥ 40%, recor	<del>1</del>				
Seg.	reaction compo	onent	Volume (μl)		
1 12/2	2 × Rapid Taq Master Mix(Vazyme P222) or 2 × Phanta Max Master Mix (Vazyme P515)		12.5		
2	ddH2O	3/2	9.5		
3	Primer A(10pm	οΙ/μΙ)	1		
4	Primer B(10pm	1			
5	Template(20~80	)ng/μl)	1 3/2		
PCR program $ { m I} $ pri	ority selection		~ <u></u>		
Seg.	Temp.	Time	Cycle		
1 %	95℃	5min	, 3/x		
2	98℃	30s	20×		
3	65°C* (-0.5°C/cycle)	30s	9/2 3/2		
4	<b>72℃</b>	45s*	13×		
5	98°C	30s	15×		
6	55℃*	30s	8 6		
7	<b>72℃</b>	45s*	3/2 3/5		
8	<b>72℃</b>	5min	9%		
9	10°C	hold	3		
PCR program $ { m II} $ th	e second choice	70 7			
Seg.	Temp.	Time	Cycle		
1	95℃	5min	19X		
2	98℃	30s	35×		
3	58℃*	30s	5. 34x.		
4	<b>72℃</b>	45s*	12/ <sub>2</sub>		
5	<b>72℃</b>	5min	9/2)		
6	10℃	hold	72		
<u> </u>	· (X /0)	( ) YO.			

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

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6./x.				, C
(G./x.)				?G
		×, · · · · · · · · · · · · · · · · · · ·		
6.				G./x.
		6		
				0.3/5
		? S <sub>3/4</sub>		
-3/5				-0,- <sub x
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