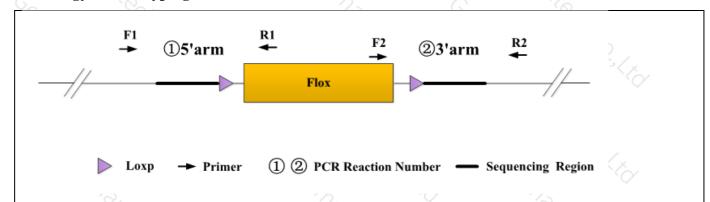


Genotyping Report

Strain ID	T008255	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	3/2	Uchl5	

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.

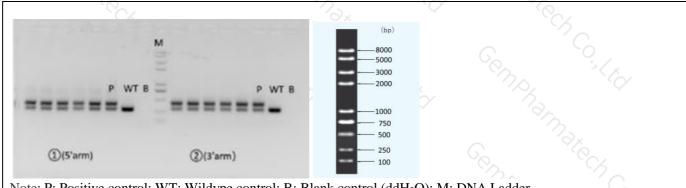
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size	
①(5'arm)	T008255-F1	GGGACAAGAAGGTGGCTTTTCA	WT:295bp Targeted:400bp	
	T008255-R1	TGTCTGCAATCACTGCCCTTTC		
②(3'arm)	T008255-F2	CTGCTGGGATTACAGCAGGAGAGT	WT:306bp	
	T008255-R2 GGTGTGTCTGCCTGAAATGTGC		Targeted: 407bp	

3. Gel Image & Conclusion



Note: P: Positive control; WT: Wildype 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

PCR Reaction Co	mponent	2	7) (A)	
Seg.	reaction	reaction component		
1 70	2 × Rapid Taq Master Mix(Vaz	2 × Rapid Taq Master Mix (Vazyme P222)		
2	ddH2O	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	9.5	
3	Primer A(10pmol/μl)	% 3√x	1	
4	Primer B(10pmol/μl)	Primer B(10pmol/μl)		
5	Template(≈100ng/μl)	Template(≈100ng/μl)		
PCR program ①	priority selection	6	So 3/x	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	(A)	
2	98℃	30s	20×	
3	65℃* (-0.5℃/cycle)	30s	7) (S)	
4 %	72℃	45s*		
5	98℃	30s	20×	
6	55℃*	30s	7,00	
7	72℃	45s*	%, °°C,	
8	72℃	5min	3/x	
9	10°C	hold	√2× ,	
PCR program ②	the second choice	Toy Con	- C	
Seg.	Temp.	Time	Cycle	
1 3/7	95℃	5min	1975 3/50	
2	98°C	30s	35×	
3	58°C*	30s	3	
4	72℃	45s*	G. 3/4	
5	72℃	5min -		
6	10℃	hold	70/c	

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