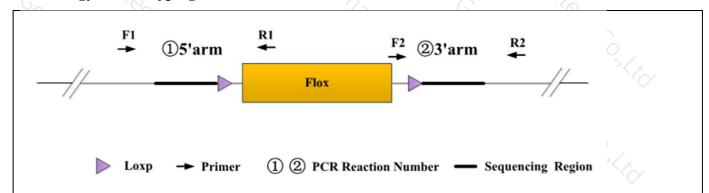
# **Genotyping Report**

Strain ID	T021741	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Zifan Lin	Gene Name	3/2	Zfp609	~ Co

# 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.

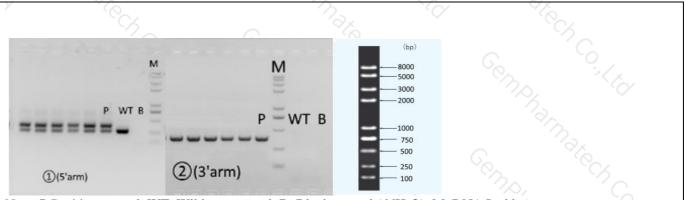
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a Targeted band.

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

#### 2. Primer Information

	1 12		
PCR No.	Primer No.	Sequence	Band Size
①(5'arm)	T021741-F1 CCATCCACCTTGTTACTTCCAAGC		WT: 281bp Targeted: 386bp
	T021741-R1	T021741-R1 GCTGGGAGCAATTTGATGGGAA	
②(3'arm)	T021741-F2	CATCGCATTGTCTGAGTAGGTG	WT:0bp Targeted:375 bp
	T021741-R2	GGACCTGACTGAAGCGGCTAAG	

## 3. Gel Image & Conclusion



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 C	omponent	722	73.	
Seg.	rea	reaction component		
1 70,	2 × Rapid Taq Master Mix	2 × Rapid Taq Master Mix (Vazyme P222)		
2	ddH2O	%,	9.5	
3	Primer A(10pmol/μl)	3/x	12	
4	Primer B(10pmol/μl)	Primer B(10pmol/μl)		
5	Template(≈100ng/μl)	Template(≈100ng/µl)		
PCR program ①	priority selection	o <sub>2</sub>	G, 3,/x	
Seg.	Temp.	Time	Cycle	
1	95℃	5min	19/7	
2	98℃	30s	20×	
3	65℃* (-0.5℃/cycle)	30s	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
4	<b>72℃</b>	45s*		
5	98℃	30s	20×	
6	55℃*	30s	Co You	
7	<b>72℃</b>	45s*	7/2 YC	
8	<b>72℃</b>	5min	192 3/x	
9	10℃	hold	- 1,0×	
PCR program ②	the second choice	79×		
Seg.	Temp.	Time	Cycle	
1	95℃	5min	1973 345 A	
2	98℃	30s	35×	
3	58℃*	58°C* 30s		
4	72℃ /	45s*		
5	<b>72℃</b>	5min		
6	10°C	hold	200	

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