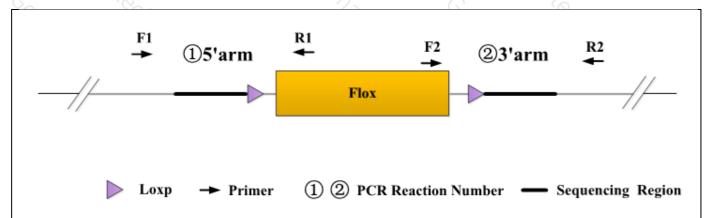
Genotyping Report

Strain ID	T026566	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Binjie Jiao	Gene Name	3/2	Tdrkh	S

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.	Primer Name	Sequence	Band Size
①(5'arm)	F1	T026566(P1)-F1	AAAGTACCTCAAGTTCAGGACCAAGC	WT: 303bp
	R1 T026566(P1)-F		CAAAGTCACCAGCAAGTGTACTGCT	Targeted: 408bp
②(3'arm)	F2	T026566(P1)-F2	TATATAGAGGGAGCTCATGATGTCACTG	WT: 349bp Targeted: 455bp
	R2	T026566(P1)-R2	CACTCTACCTGCTCTCTCCAAAGAC	

3. Gel Image & Conclusion





Note: P: Heterozygous samples; WT: Wildtype 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

(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.)

PCR Reaction	Component				
Seg.	rea	reaction component			
1		2 × Rapid Taq Master Mix(Vazyme P222) or 2 × Phanta Max Master Mix (Vazyme P515)			
2	6	ddH2O			
3	Prii	Primer A(10pmol/µl)			
4	Pri	Primer B(10pmol/μl)			
5	Tem	Template(20~80ng/μl)			
PCR program	I priority selection	300	C		
Seg.	Temp.	Time	Cycle		
1	95℃	5min 5	3/2		
2	98℃	30s	20×		
3	65℃* (-0.5℃/cycle)	30s	600		
4 %	72 ℃	45s*	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
5	98℃	30s	15×		
60	55℃*	30s	79%		
7 7	72 ℃	45s*	(2)		
8	72℃	5min	7		
9	10℃	hold	75. 346/		
PCR program	II the second choice	(2) (A)	7×		
Seg.	Temp.	Time	Cycle		
1 6	95℃	5min	Ge, 0,4x		
2	98℃	30s	35×		
3	58℃*	30s	C Jake		
4 (72℃	45s*	6- 3%		
5	72 ℃	5min	(S)		
6	10℃	hold	3.		



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