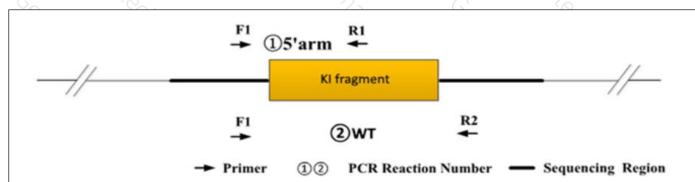


Genotyping Report

Strain ID	T057504	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name	3/X/	Foxd4-P2A-EGFP	6

1. Strategy of Genotyping



Wild type: ①PCR reaction obtains none band; ②PCR reaction obtains a WT band.

Heterozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains a WT band.

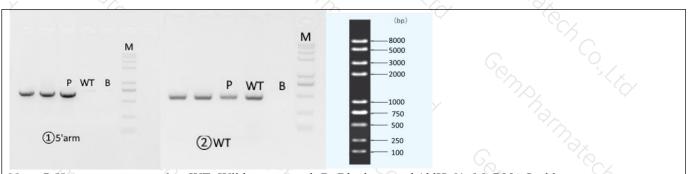
Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band.

Note: The sizes of WT and Targeted band are shown below. For ②PCR reaction, because the WT band is much smaller than the target band, it is likely to produce dominant amplification, the reaction is only used to judge whether there is a WT allele.

2. Primer Information

PCR No.	Primer No.	Primer Name	Sequence	Band Size	
①5'arm	F1	T057504-Foxd4-wt-tF1	CAGCAAGAACAGCATCACTGTGC	WT:0bp	
GC: 62.4%	R1	EGFP-5tR1	GCTGTTGTAGTTGTACTCCAGCTTG	G Targeted:681bp	
2WT	Fl	T057504-Foxd4-wt-tF1	CAGCAAGAACAGCATCACTGTGC	WT:472bp	
	R2	T057504-Foxd4-wt-tR1	CACTTTCATAGTCATAGGTCCTCGG	Targeted:1298bp	

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% ≥ 60% or GC% ≤ 40%,recommend to use Vazyme P515

PCR Reaction	on Component	22	*/ ₂ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
Seg.	re	reaction component				
1 1999		2 × Rapid Taq Master Mix(Vazyme P222) or 2 × Phanta Max Master Mix (Vazyme P515)				
2	79× 7	ddH2O	9.5			
}	P P	Primer A(10pmol/µl)				
	6	Primer B(10pmol/µl)				
5 %	Te	Template(20~80ng/μl)				
PCR progra	m I priority selection	3/2 3/6/				
Seg.	Temp.	Time	Cycle			
1 C	95℃	5min	G. Take			
	98℃	30s	20×			
}	65℃* (-0.5℃/cycle)	30s	Papa 10,7			
	72℃	45s*	773×			
500	98℃	30s	15×			
; '%	55℃*	30s	~~ (G			
7	72°C	45s*	19/2 · · · · · · · · · · · · · · · · · · ·			
36	72℃	5min	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
) 2	10℃	hold	92. "Y_			
PCR progra	m $^{ m II}$ the second choice	<u> </u>	<u> </u>			
Seg.	Temp.	Time	Cycle			
Í	95℃	5min	13/2			
	98℃	30s	35×			
3 600	58℃*	30s	56/x			
1	72°C	45s*	72/2			
,)	72℃	5min	3/2			
5 0	10℃	hold	79%			

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