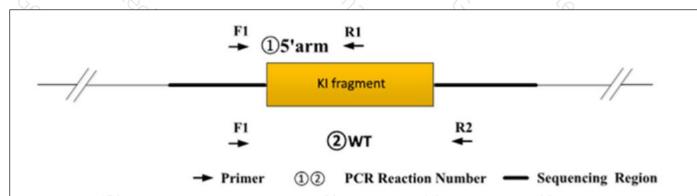


Genotyping Report

Strain ID	T058586	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name	·3/2	Pax7-DreERT2-P2A	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.

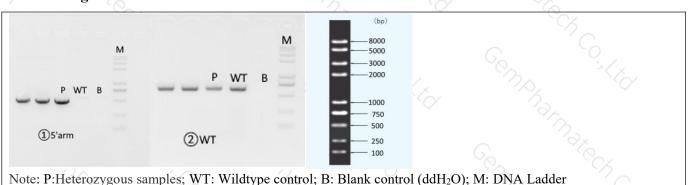
Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band.

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	
(1)5° a	F1	T058586-Pax7-wt-tF1	AAGAAAGCCACTCCGCAACCTC	WT:0bp	
①5'arm	R1	DreERT2-tR1	TGGTACTCCTTGCCGATGTTC	Targeted:496bp	
②WT	F1	T058586-Pax7-wt-tF1	AAGAAAGCCACTCCGCAACCTC	WT:674bp	
	R2	T058586-Pax7-wt-tR1	TCCACGCAGAAACTGACAAGTGT	Targeted:2750bp	

3. Gel Image & Conclusion



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 Co	mponent		<u> </u>	
Seg.		reaction component		
1 77		2 × Rapid Taq Master Mix(Vazyme P222) or 2 × Phanta Max Master Mix (Vazyme P515)		
2)×	ddH2O	9.5	
3	°CK	Primer A(10pmol/μl)		
4		Primer B(10pmol/µl)		
5	3/x	Template(20~80ng/μl)		
PCR program I	priority selection	3/2		
Seg.	Temp.	Time	Cycle	
1 6	95℃	5min	C- 13/2	
2 70,	98℃	30s O	20×	
3 %	65℃*(-0.5℃/cycle) 30s		
1	72℃	45s*	**************************************	
5 6	98℃	30s	15×	
5 %	55℃*	30s	70 C	
7 9/2	72℃	45s*	792 °54x	
3	> _× 72℃	5min	. 72×	
900	10 °C	hold	S2 CX	
PCR program II	the second choice	%	7% (G	
Seg.	Temp.	Time	Cycle	
1′	95℃	5min	Jak	
2	98℃	30s	35×	
3 600	58°C*	30s	35× 7/	
1 %	72℃	45s*	70,	
5	72℃	5min	79/2	
6	10℃	hold	_ 73×	

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