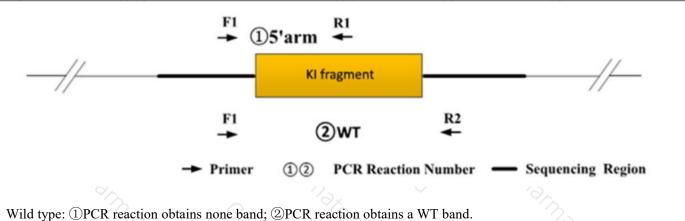


	m it	Genotyp	ing Report		· * < *
Strain ID	T058549	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JG _I
Designer	Tianjiao Wang	Gene Name	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Kit-CreERT2-IRES	́С

1. Strategy of Genotyping



Heterozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains a WT band. Homozygote: 1)PCR reaction obtains a Targeted band; 2)PCR 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.	Sequence	Band Size
①5'arm GC%:63.3%	PO-GJS022022065607- 01-Kit-wt-tF1	ATCAGCTTATTGCAGCCCGAGA	WT:0bp Targeted:311bp
	CreERT2-tR1	CATGTCCATCAGGTTCTTGCGAAC	CC /
2WT	PO-GJS022022065607- 01-Kit-wt-tF1	ATCAGCTTATTGCAGCCCGAGA	WT:399bp Targeted:3003bp
GC%:69%	PO-GJS022022065607- 01-Kit-wt-tR1	GCATGGGAAAAGCCAACAGCTA	

3. Gel Image & Conclusion

3. Gel Image & Conclusion			
M P WT B (1)5'arm		A (bp) 8000 5000 3000 2000 1000 750 500 250 100	Cempharmatech Co
Note: P:Heterozygous samples; V	VT·Wildtype contro	ol· B· Blank control	1 (ddH2O): M: DNA Ladder



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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 (Component	5 7_				
Seg.	reactio	reaction component				
1 3	2 × Rapid Taq Master Mix (Vaz	2 × Rapid Taq Master Mix (Vazyme P222)				
2 7	ddH2O	ddH2O				
3	Primer A(10pmol/µl)		The state			
4	Primer B(10pmol/µl)	Primer B(10pmol/µl)				
5	Template(20~80ng/µl)					
PCR program	I priority selection	$^{\circ}C$				
Seg.	Temp.	Time	Cycle			
1	95℃	5min	narra na			
2 6	98°C	30s	20× 🔗			
3 70	65℃*(-0.5℃/cycle)	30s	S. S.			
4	72℃	45s*				
5	98℃	30s	15×			
6 6	55℃*	30s				
7 ⁷ .	72°C	45s*	20 30			
8 🔗	72℃	5min				
9	10℃	hold				
PCR program	II the second choice	nax Go				
Seg.	Temp.	Time	Cycle			
1 27	95℃	5min	1300 · · · · · · · · ·			
2	98°C	30s	35×			
3	58°C*	58℃* 30s				
4 6	72°C	45s*	5			
5 7/	72°C	5min				
6	10℃	hold	2			

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