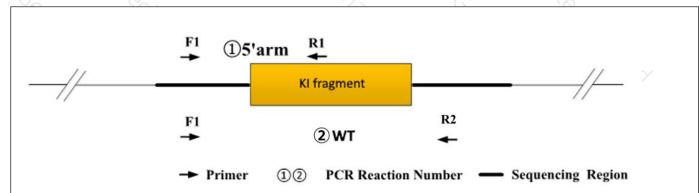


Genotyping Report

Strain ID	T003764	Strain Type	KI(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name	3/2	H11-Tek-Cre	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.

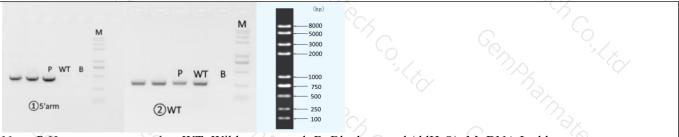
Homozygote: ①PCR reaction obtains a Targeted band; ②PCR reaction obtains none band.

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	H11-tF3	GGGCAGTCTGGTACTTCCAAGCT	WT:0bp Targeted:411bp	
	R1	000116-Tek-tR1	CTTGATTCACCAGATGCTGAGGTTA	rargeteu.4110p	
②WT	F1	H11-tF3	GGGCAGTCTGGTACTTCCAAGCT	WT:285bp Targeted:13980bp	
	R2	H11-tR3	ATATCCCCTTGTTCCCTTTCTGC	Targeted.139800p	

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	Component		20/2	
Seg.		reaction component	Volume (μl)	
	3	2 × Rapid Taq Master Mix(Vazyme P222) or 2 × Phanta Max Master Mix (Vazyme P515)		
2	3,42	ddH2O	9.5	
3	9× 4	Primer A(10pmol/μl)		
1	, C/S	Primer B(10pmol/μl)		
5 0	6	Template(20~80ng/μl)		
PCR program	I priority selection	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
Seg.	Temp.	Time	Cycle	
1	95℃	5min	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
2 %	98°C	30s	20×	
170	65℃* (-0.5℃/cy	ycle) 30s	77A, ''C	
1	72℃	45s*	7 8/2 3/	
5	98℃	30s	15× 0×	
5 60	55°C*	30s	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	
, %,	72℃	45s*	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
3	72℃	5min	3/2	
9 C.	10℃	hold	9%	
CR program	II the second choice	C	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
Seg.	Temp.	Time	Cycle	
ı	95℃	5min		
2	98℃	30s	35×	
3	58℃*	30s	170	
1 %	72℃	45s*	50%	
5	72℃	5min		
 5	10℃	hold	4 9/2	

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