

		Genotyp	oing Report		Color
Strain ID	T026200	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Tiantian Sun	Gene Name	34	Rab37	
. Strategy of (Genotyping	12h	m.	C Prinate	
	→ ①5'arm	- Flox		'arm ↓	
	Loxp 🔶 Prime			- Sequencing Region	< t _{et}
				ins a single WT band. PCR reaction obtains a WT	hand and a

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	T026200(P1)-F1	TGCCAAGTAGCTGAAGGTCTGG	WT: 419bp Targeted: 524bp
	R1	T026200(P1)-R1	TAACCTAGCGAGGCAGCGAGA	
@(3'arm)	F2	T026200(P1)-F2	ACGTGGCACGTTGTGGGAAA	WT: 284bp
	R2	T026200(P1)-R2	TTGGCAGTAGCCTTTAGCCACG	Targeted: 390bp

3. Gel Image & Conclusion



Note: P: Heterozygous samples; WT: Wildtype control; B: Blank control (ddH_2O); 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.		reaction component	Volume (μl)	
1		× Rapid Taq Master Mix(Vazyme or Phanta Max Master Mix (Vazym	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
200	- ⁻ ⁻ ⁻	ddH2O	9.5	
3 70/	<u>´</u> C	Primer A(10pmol/µl)		
4 ^O O	5 ³ (x	Primer B(10pmol/µl)		×
5	27 - C	Template(20~80ng/µl)		Q'
PCR program	I priority selection	24		
Seg.	Temp.	Time	Cycle	
1 7	95°C	5min		Y
2	98℃	30s	20×	
3	65℃*(-0.5℃/	(cycle) 30s	1	
4	72°C	45s*		
5 70	98°C	30s	15×	
6	S5℃*	30s		5 57
7	72 ℃	45s*	nax.	
8 %	72°C	5min		
9 %	10°C	hold		
PCR program	II the second choice		and the second sec	
Seg.	Temp.	Time	Cycle	
1 ns	95℃	5min	Cons, Con	
2 ?	98°C	30s	35×	
3	58°C*	30s	il nax	
4	72 ℃	45s*		
5	72℃	5min		
6 %	10°C	hold		

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