

		Genotyp	ing Report		· C
Strain ID	T008522	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGp
Designer	Ya'nan Xu	Gene Name		CD226	°C
Strategy of (	Genotyping	in h		(armar	
	F1 → ①5'arm	R1 ◀	F2 ②3	'arm 🔫	2
		>	->	//	

Wild type: ①PCR reaction obtains a single WT band; ②PCR reaction obtains a single WT band. Heterozygote: ①PCR reaction obtains a WT band and a Targeted band; ②PCR reaction obtains a WT band and a Targeted band. Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band. Note: The sizes of WT and Targeted band are shown below.

Primer

1 2 PCR Reaction Number - Sequencing Region

## **2. Primer Information**

Loxp

PCR No.	Primer No.	Sequence	Band Size	
	T008522-F1	TGCCTCTTATGTGGGCAAAGTGT	WT: 336bp Targeted: 441bp	
(1)(5'arm)	T008522-R1	TCAAAGGTGTTGAGGAACCAGTG		
	T008522-F2	CAATGCAATGAACAAGAGACAAGG	WT: 332bp	
2(3'arm)	T008522-R2 TGAGTTGGAGAGCACCCTCTTAGA		– Targeted: 438bp	

## 3. Gel Image & Conclusion

м — Р — WT В	(bp) 				
①(5'arm) M		Contrate of	harna a		
P WT B (3'arm)	750 500 250 100	Mar Star			
Note: P: Positive control; WT: Wildtype control; B: Blank control (ddH <sub>2</sub> O); 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

	Contraction Contraction	Contra Ma	
4. PCR Condition		~	and set
PCR Reaction Component		2.	Valuma (III)
Seg.	reaction com 2 × Rapid Taq Master Mix (Vazyme		Volume (μl) 12.5
1	ddH2O		9.5
2			
3	Primer A(10pmol/µl)	×	1 %
4	Primer B(10pmol/µl)	°C/	1 7
5	Template(≈100ng/µl)		1 0
PCR program ① pri	ority selection	· · · / ×	$\gamma_{S,}$ $\gamma_{q}$
Seg.	Temp.	Time	Cycle
1	95℃	5min	Mar
2	98°C	30s	20×
3	65℃*(-0.5℃/cycle)	30s	K. C.
4 h	72°C	45s*	and stre
5 6	98°C	30s	20×
6	55°C*	30s	~ ~ ~ ~
7	72°C	45s*	
8	72°C	5min	Do V
9	10°C	hold	
PCR program $2$ th	e second choice	Ch No	. ?
Seg.	Temp.	Time	Cycle
1. 73%	95°C	5min	Mar No
2	98°C	30s	35×
3	58°C*	30s	
4 75,	72°C	45s*	
5	72°C	5min	na h
6	10°C	hold	1 m 2 -
6	10°C	hold	1 miles

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



