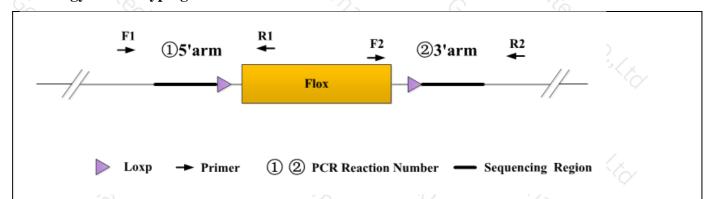
Genotyping Report

Strain ID	T009495	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	3/2	Dennd1a	6

1. Strategy of Genotyping



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.

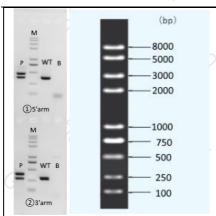
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

Note: The sizes of WT and Targeted band are shown below.

2. Primer Information

			7/1	
PCR No.	Primer No.	Sequence	Band Size	
①(5'arm)	T009495-F1	CAATGGCAACTGTTTACAGTGGG	WT: 377bp Targeted:482bp	
	T009495-R1	009495-R1 CATTTAGCAAACCAGGCACAGTG		
②(3'arm)	T009495-F2	AGACTCAGGTTTGGTGCTTAGCAC	WT: 278bp	
	T009495-R2	TTTGAGACAGGGTTTCCCTGTG	Targeted:384bp	

3. Gel Image & Conclusion



Note: P: Positive control; 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

DOD D .: 0	<u>'</u>	-		
PCR Reaction Co	mponent		125	
Seg.	reaction o	reaction component		
1	2 × Rapid Taq Master Mix (Vazyr	2 × Rapid Taq Master Mix (Vazyme P222)		
2 3	ddH2O)	9.5	
3	Primer A(10pmol/μl)	(C)	1 7	
4	Primer B(10pmol/μl)	~~C %	1	
5	Template(≈100ng/μl)	5/x	7 ₀ 1 (C	
PCR program ①	priority selection		792 3/x	
Seg.	Temp.	Time	Cycle	
1 %	95°C	5min	, C.	
2	98℃	30s	20×	
3	65℃* (-0.5℃/cycle)	30s	73. 34.	
4	72℃	45s*	(9)X	
5	98℃	30s	20×	
6	55℃*	30s	G, 9,/,	
7	72℃	45s*	70/	
8	72℃	5min	3/2	
9	10℃	hold	, Jax	
PCR program ②	the second choice	· C		
Seg.	Temp.	Time	Cycle	



1	10/12/2	95℃	19hm.	5min		£ '6	
2	· 12.	98℃	9/X	30s		35×	N.
3 (S. 78	58℃*	4	30s	0	770	
4	700/	72℃	G _C	45s*	³ 72,	7°C	
5	72/2	72 ℃	700	5min	2	24 34	/ ×
6	, Jax	10℃	, 9 ¹	hold		(Ma)	0

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