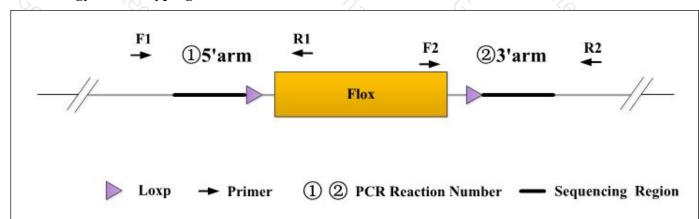
Genotyping Report

Strain ID	T051801	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Ya'nan Xu	Gene Name	3/25	ATXN3	3

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.

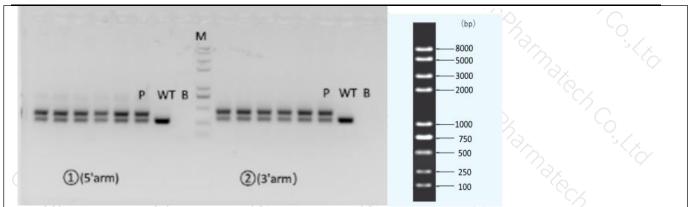
Homozygote: ①PCR reaction obtains a single Targeted band; ②PCR reaction obtains a single Targeted band.

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

2. Primer Information

PCR No.	Primer No.	Sequence	Band Size	
①(5'arm)	T051801(P2)-F1	GCACTCAGAGTCAGAAGCAAACAG	WT: 280bp Targeted: 385bp	
	T051801(P2)-R1	GCTCAACTTCATTAGTCATCAGGGA		
②(3'arm)	T051801(P2)-F2	TGCTTACAGCTTTCAAATGACCC	WT: 306bp Targeted: 412bp	
	T051801(P2)-R2	TAAGGGAGTGGGAGAATGTTCAAC		

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

4. PCR Condition	Y		<u> </u>		
PCR Reaction Compo	enent	· Ø	70 _A		
Seg.	reaction comp	onent	Volume (μl)		
	2 × Rapid Taq Master Mix (Vazyme P2	222)	12.5		
170	ddH2O	~ `?/ _*	9.5		
9/2	Primer A(10pmol/μl)	, (A)	12		
	Primer B(10pmol/μl)	1 7 _{2×}			
602	Template(20~80ng/μl)	(C) (S)	1 %		
PCR program I prio	rity selection	3/1), (G		
Seg.	Temp.	Time	Cycle		
	95℃	5min	13/2 C		
120,	98℃	30s	20×		
292	65℃* (-0.5℃/cycle)	30s			
73.	72℃	45s*			
	98℃	30s	15×		
	55℃*	30s	70		
Co	72℃ 〈×	45s*), 'O		
72	72℃	5min			
9/7:	10℃	hold	9/2		
CR program II the	e second choice		70×		
eg.	Temp.	Time	Cycle		
12/2/2	95℃	5min 5	% (S.)		



2	1/2/5	98℃ 🥎	19/2	30s ,	70	35×	(C)
3	3/2	58℃*	72×	30s		2/2	3/x
4		72 ℃	,200	45s*		79x	, Ó,
5	°C/D	72℃		5min	602	600	agenta.
6	75	10℃	°22	hold	12%		9

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