

	n ite	Genotyp	ing Report		Co. Kr
Strain ID	T019528	Strain Type	CKO(Cas9)	Genetic Background	C57BL/6JGpt
Designer	Binjie Jiao	Gene Name		Flot1	6
Strategy of	Genotyping F1	R1	F2	A CONTRACT	2
//	→ ①5'a		Flox	23'arm	= //

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.	Primer Name	Sequence	Band Size
(1)(5'arm)	F 1	T019528(P1)-F1	GCAAAGGCTTCCTCTCTATTCCTC	WT: 327bp
	R1	T019528(P1)-R1	GACCGTGGCAAAGCTGAAGAC	Targeted: 432bp
@(3'arm)	F2	T019528(P1)-F2	GTATGTGTTTACGTACATGTAGGCTGG	WT: 361bp Targeted: 467bp
	R2	T019528(P1)-R2	TACCTCTTGGTCAATCGCATTCATG	

3. Gel Image & Conclusion





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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		$\gamma_{\mathcal{P}_{4}}$
Seg.	re	action component	Volume (µl)
1		2 × Rapid Taq Master Mix(Vazyme P222) or 2 × Phanta Max Master Mix (Vazyme P515)	
2 6.	So So	ddH2O	9.5
3	Pr	imer A(10pmol/µl)	
4	Pr	imer B(10pmol/µl)	1
5	Ter	Template(20~80ng/µl)	
PCR program	I priority selection	i de la companya de	G. AK
Seg.	Temp.	Time	Cycle
1	95°C	5min	
2	98° C	30s	20×
3 %	65℃*(-0.5℃/cycle)	30s	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
4 %	72°C	45s*	$\gamma \gamma $
5	98°C	30s	15×
б	55℃ *	30s	73%
	72°C	45s*	Sol Charles
3	72°C	5min	The second
Э С	10°C	hold	The the
PCR program	II the second choice	No. No.	
Seg.	Temp.	Time	Cycle
1 6	95°C	5min	Con Contraction
2	98°C	30s	35×
3	58°C*	30s	35×
4 6	72°C	45s*	C. Alto
5 70	72°C	5min	No. No.
6	10°C	hold	73. 6



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

and amplification enzyme efficiency.

