

RMRC Genotyping Protocol-PCR

No.	RMRC13220	Strain Name	C57BL/6- Tg (SEPT12-Flag/SEPT12/GFP)8-2Kpln
No	RMRC13221	Strain Name	C57BL/6- Tg (SEPT12-Flag/SEPT12/GFP)8Kpln
No	RMRC13222	Strain Name	C57BL/6- Tg (SEPT12-Flag/SEPT12/GFP)16-2Kpln
No	RMRC13223	Strain Name	C57BL/6- Tg (SEPT12-Flag/SEPT12/GFP)25Kpln

A. Primer

	Primer name	Sequence
1	SEPT12-FLAG-GFP-transgenic-F	ATCCTCAACAGCAAGTTACG
2	SEPT12-FLAG-GFP-transgenic-R	GGTCTCTCAGGAGAGGAAAT

B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--			μl	1	95	300	1
PCR buffer	10x		2	μl	2	95	30	35
dNTP	2.5	mM	2	μl	3	57	30	35
Primer 1	10	μM(μmol/μl)	1	μl	4	72	30	35
Primer 2	10	μM(μmol/μl)	1	μl	5	72	600	1
DNA	--			μl	6	4	-	-
Taq		U/μl	1	μl	7			
Mg ²⁺		mM		μl	8			
Total			20	μl	9			

C. PCR Product

	Primer set		Product size	Target region
1	SEPT12-FLAG-GFP-transgenic-F	SEPT12-FLAG-GFP-transgenic-R	~180 bp	Human septin12 CDS

D. Gel Photo

