

RMRC Genotyping Protocol-PCR

種原編號	RMRC13059	品系名稱	C57BL/6-Tg(PolII-Rab18)12Hcj
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A. Primer

	Primer name	Sequence
1	HS4-F	CCTCCTTGGGCAAC CTGTTTCAG
2	HS4-R	ATGTGGCACTGAGGGACATGGC

B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O			7.40	μl	1	95	300	1
PCR buffer	10x		1.25	μl	2	95	30	35
dNTP	2	mM	1.25	μl	3	65	30	
Primer 1	10	μM(ρmol/μl)	0.50	μl	4	72	30	
Primer 2	10	μM(ρmol/μl)	0.50	μl	5	72	300	1
DNA	--		0.50	μl	6			
Taq	5	U/μl	0.10	μl	7			
Mg ²⁺	25	mM	1.00	μl	8			
Total			12.50	μl	9			

C. PCR Product

	Primer set		Product size	Target region
1	HS4-F	HS4-R	600 bp	with Rab18 transgene
2	HS4-F	HS4-R	no product	no Rab18 transgene

D. Gel Photo

