

RMRC Genotyping Protocol-PCR

No.	RMRC13184	Strain Name	FVB/N-Tg(ACTB-ADIPOR1,-DsRed2)11Std
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A. Primer

	Primer name	Sequence
1	m-s1r-Flag	AGATCTTCCACGTCCTGGTG
2	m-a1r-Flag	TCATCGTCGTCTTTGTAATCCTT

B. Reaction Conditions

Component	Concentration		Volume		Step	Temperature, °C	Time, sec	Number of Cycles
H ₂ O	--			μl	1	95	4 min	1
PCR buffer	10x		1	μl	2	95	1	30
dNTP	2	mM	1	μl	3	60	1	30
Primer 1	10	μM(μmol/μl)	0.5	μl	4	72	1	30
Primer 2	10	μM(μmol/μl)	0.5	μl	5	72	10	1
DNA	--			μl	6	4	-	-
Taq		U/μl	1	μl	7			
Mg ²⁺	1	mM	0.4	μl	8			
Total			10	μl	9			

C. PCR Product

	Primer set		Product size	Target region
1			~170 bp	
2				

D. Gel Photo

