

PCR protocol

RBRC 02978

Strain name C57BL/6J-Myo5a<d-n>/Nem

Primer	primer_name	primer_seq	length	
1	Myo5a_WT	CCTCCCTAGCCCTAGAAACCATgC	24	RIKEN BRC
2	Myo5a_MT	CCTCCCTAGCCCTAGAAACCATgT	24	RIKEN BRC
3	Primer R	GCTACTCGCGCTGATGAACCTGTG	24	Depositor's primer

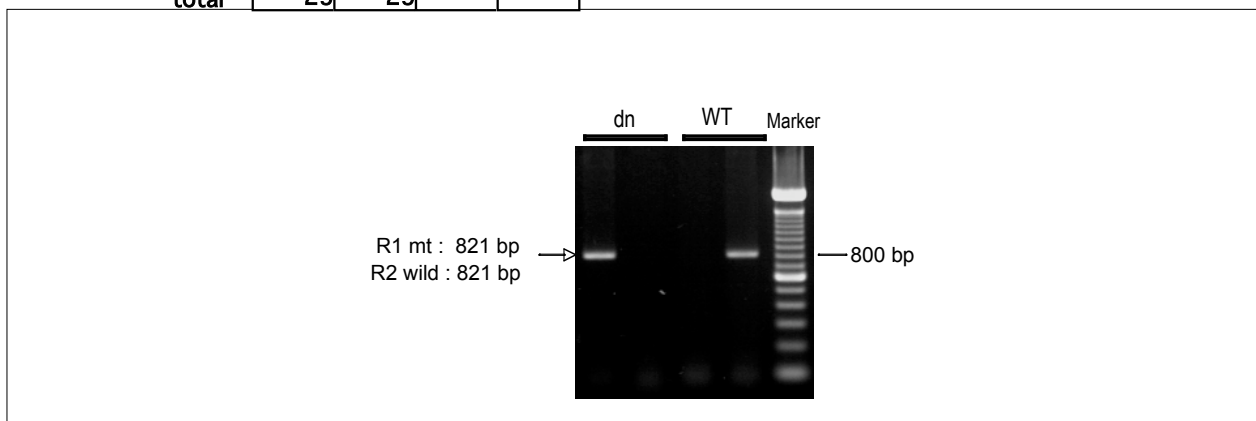
Reaction Components

Enzyme Roche Taq (Cat. No. BM1418432)

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	180	
2	94	30*	
3	60	30*	
4	72	60*	*Repeat for 35 cycles
5	72	300	

Conc	Run 1	Run 2	Run 3	Run 4
H2O	17.3	17.3		
PCR buffer	2.5	2.5		
dNTP	2.0	2.0		
primer 1	0	1.0		
primer 2	1.0	0		
primer 3	1.0	1.0		
DNA	1.0	1.0		
Taq	0.2	0.2		
total	25	25		



Marker

100 bp ladder (Invitrogen, Cat. 15628-050)

Gel

2% agarose in 1 X TAE (100 V, 30 min)

PCR products

primer_set	product_size	product
primer 1	821 bp	WT
primer 2	821 bp	mutant

Comment