

RBRC 11401

Strain name C57BL/6N-Cdkn1a^{em1}Matsu Cdkn2a^{em1}Matsu

Primer	primer_name	primer_seq	length	Reference
1	P21-fw	CCTGAAGACTGTGATGGGGTA	21	Depositor's primer
2	P21-rv	TCTCCGTGACGAAGTCAAAGT	21	Depositor's primer
3	P16/19-fw	GCCGTGATCCCTCTACTTTTT	21	Depositor's primer
4	P16/19-rv	TATCGCACGATGTCTTGATGT	21	Depositor's primer

Reaction Components

Enzyme	TOYOBO KOD FX (Code.No : KFX-101)
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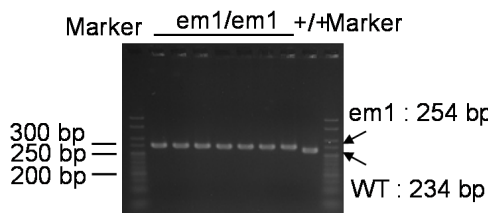
Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	60*	*Repeat for 30 cycles

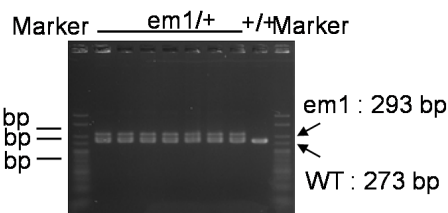
Reagent	Conc	Reaction 1	2	3	4
H2O		2.8	2.8		
PCR buffer	2 X	10.0	10.0		
dNTP	2.0 mM	4.0	4.0		
primer 1	10 pmol/μl	1.0	0		
primer 2	10 pmol/μl	1.0	0		
primer 3	10 pmol/μl	0	1.0		
primer 4	10 pmol/μl	0	1.0		
DNA		1.0	1.0		
Taq	1 U/μl	0.2	0.2		
total		20	20		

Marker	25bp DNA Step Ladder (Wako, Cat. 292-69001)
Gel	3% Nusieve in 0.5 X TBE (100 V, 60 min)

【Reaction 1 : Cdkn1a】



【Reaction 2 : Cdkn2a】



primer_set	product_size	product (allele type)	
primer 1	primer 2	234 bp	WT
primer 1	primer 2	254 bp	em1
primer 3	primer 4	273 bp	WT
primer 3	primer 4	293 bp	em1

Reaction 1
+/+ (wild-type): 234 bp
em1/em1 (homozygous): 254 bp
Reaction 2
+/+ (wild-type): 273 bp
em1/em1 (homozygous): 293 bp

Comment [Standard PCR](#)

Novagen KOD Xtreme™ Hot Start DNA Polymerase can be purchased from EMD.