

RBRC 10149

Strain name B6.B6D2-Tg(Mafg-Nfe2l1)1Mym

Primer	primer_name	primer_seq	length		
1	intron 1	GGATTCCCAGTCAGCCAGTTAG	22		RIKEN BRC
2	exon 4	CGCTGCAAGTCCTCCACATCAC	22		RIKEN BRC
3	olMR0015	CAAATGTTGCTTGTCTGGTG	20		JAX Genotyping Protocol
4	olMR0016	GTCAGTCGAGTGCACAGTTT	20		JAX Genotyping Protocol

Reaction Components

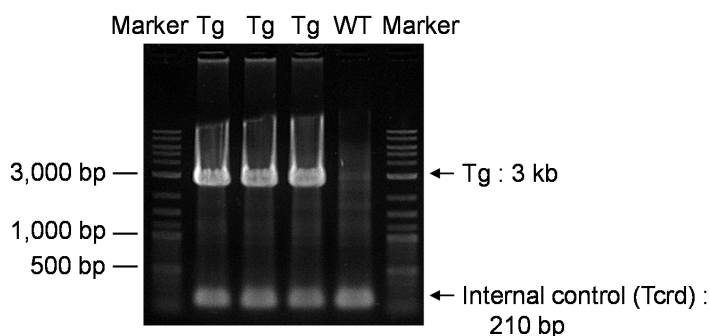
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	240*	*Repeat for 30 cycles

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		0.8			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
primer 1	10 pmol/ μ l	1.0			
primer 2	10 pmol/ μ l	1.0			
primer 3	10 pmol/ μ l	1.0			
primer 4	10 pmol/ μ l	1.0			
DNA		1.0			
Taq	1 U/ μ l	0.2			
total		20			

Standard PCR



Marker

2-Log DNA Ladder (NEB, Cat. N3200)

Gel

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

Comment

PCR products

primer_set	product_size	product
primer 1	3 kb	Tg
primer 3	210 bp	Internal control (Tcrd)

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