

PCR protocol

RBRC 03110

Strain name C57BL/6J-Tg(mDrd1-YFP)264-7Koba

Primer	primer_name	primer_seq	length	
1	mDrd1	tcctgatggaacaccattgtg	21	RIKEN BRC
2	primer 2	GCAGATTAACCTTCAGGGTCAGC	22	Depositor's primer
3	olMR0015	CAAATGTTGCTTGTCTGGTG	20	JAX Genotyping Protocol
4	olMR0016	GTCAGTCGAGTGCACAGTTT	20	JAX Genotyping Protocol

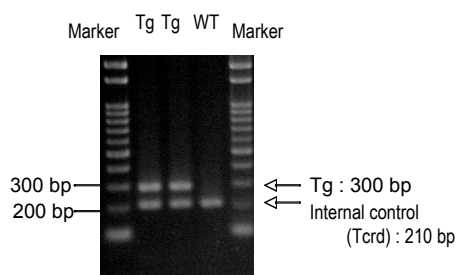
Reaction Components

Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

Reaction Conditions

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		15.3			
PCR buffer	10 X	2.5			
dNTP	2.5 mM	2.0			
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	5U/ μ l	0.2			
total		25			

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



Marker

Gene Ladder 100 (Wako, Cat. 316-06951)

Gel

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

PCR products

primer_set	product_size	product
primer 1	300 bp	Tg
primer 3	210 bp	Internal control (Tcrd)

Comment