

RBRC 05946

Strain name NOD.Cg-H2<d>

Primer	primer_name	primer_seq	length	
1	H-2K common	CAGGTATCTGCCGAGCCAC	19	RIKEN BRC
2	H-2Kd	CAGACACAGAGAGCCAAGAGCG	22	RIKEN BRC
3	I-Ag7	TTCAAGGGCGAGTGCTACTT	20	J Clin Immunol., 31(5): 857-863 (2011).
4	I-Ag7	GTTCGCTCCAGGTACTGCTT	20	J Clin Immunol., 31(5): 857-863 (2011).

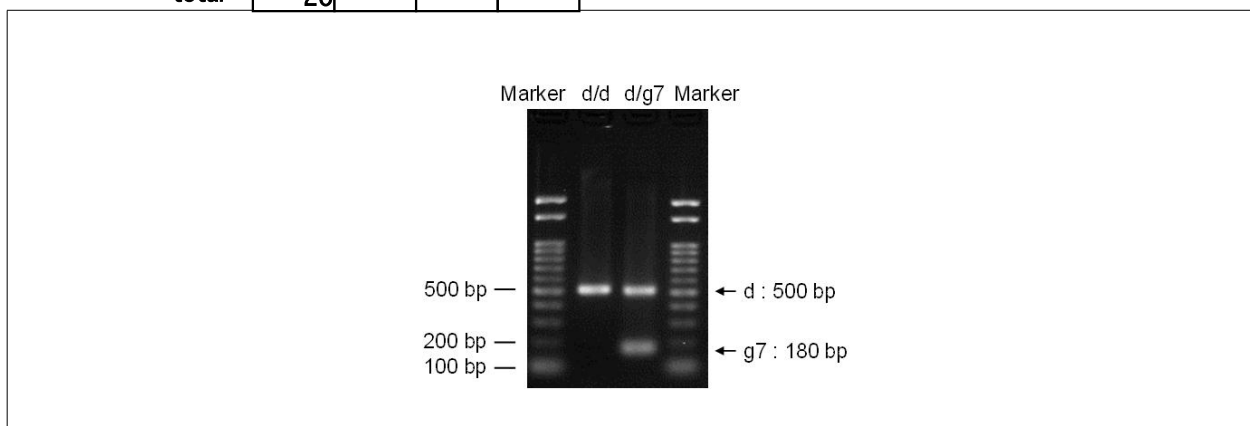
Reaction Components

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

Reaction Conditions

	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			

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

Standard PCR**Marker**

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

Gel

2% agarose in 1 X TAE (100 V, 40 min)

PCR products

primer_set	product_size	product
primer 1 primer 2	500 bp	d
primer 3 primer 4	180 bp	g7

Comment

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