RIKEN BRC

Jun. 14, 2006

BRC_No 01157 **Strain name** EGFP-Btk-4 transgenic mouse

Primer

	primer_name	primer_seq	length	
1	Primer 1	TGAACCGCATCGAGCTGAAGGG	22	
2	Primer 2	TCCAGCAGGACCATGTGATCGC	22	
3	olMR0042	CTAGGCCACAGAATTGAAAGATCT	24	Internal control (IL-2)
4	olMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	Internal control (IL-2)

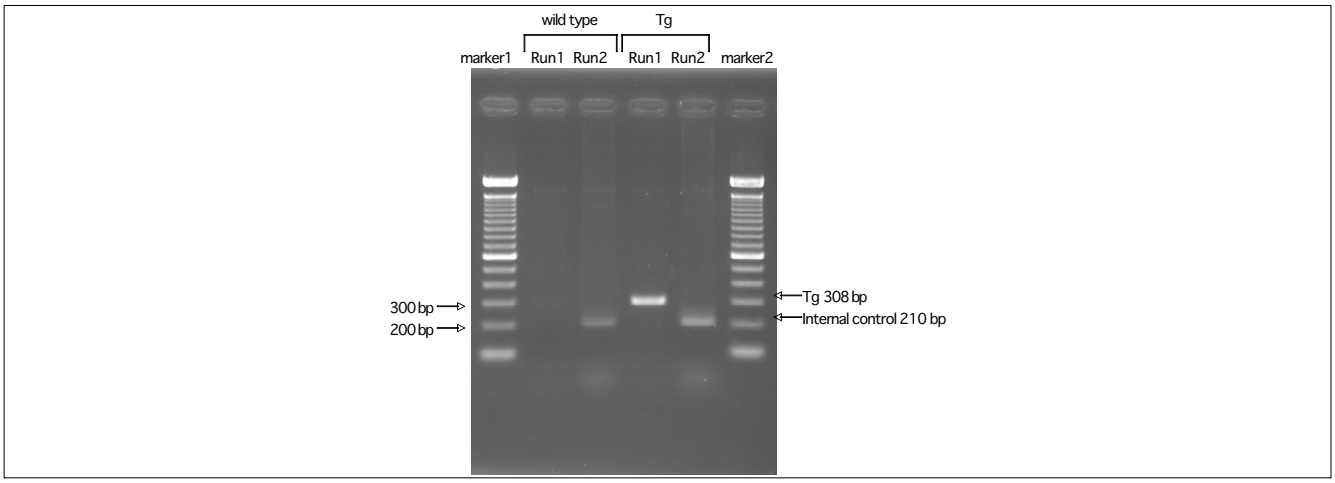
Reaction Components

Enzyme Roche Taq (Cat. No. BM1418432)

	Conc	Run 1	Run 2	Run 3
H2O		17.3	17.3	
PCR buffer	10 X	2.5	2.5	
dNTP	2.5 mM	2.0	2.0	
primer 1	10 pmol/μl	0	1.0	
primer 2	10 pmol/μl	0	1.0	
primer 3	10 pmol/μl	1.0	0	
primer 4	10 pmol/μl	1.0	0	
DNA		1.0	1.0	
Taq		0.2	0.2	
	total	25	25	

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	300	
2	94	30	*
3	65	30	*
4	72	30	* *Repeat for 30 cycles
5	72	300	



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	primer 2	308 bp	Tg
primer 3	primer 4	324 bp	internal control (IL-2)

Comment