PCR protocol

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RBRC 09691 **Strain name** C.C3-Tg(CAG-Il1rl1,CAG-GFP)23Tomi

Primer	primer_name	primer_seq	length		
1	5CAG	CCTACAGCTCCTGGGCAACGTGC	23		RIKEN BRC
2	ST2 rev	GCAATGTGTGAGGGACACTCCTTAC	25		RIKEN BRC
3		CCATGTGTAATCCCAGCAGCTG	22		RIKEN BRC
4	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24		JAX Genotyping Protocol
5	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

Reaction Components

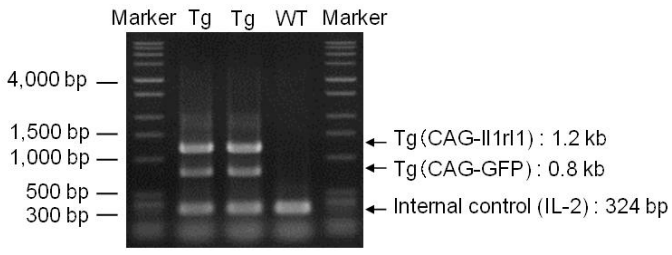
Enzyme TaKaRa LA Taq with GC buffer (Cat. No. RR02AG)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		1.9			
PCR buffer	2 X GC I	10.0			
dNTP	2.5 mM	2.0			
primer 1	10 pmol/μl	1.0			
primer 2	10 pmol/μl	1.0			
primer 3	10 pmol/μl	1.0			
primer 4	10 pmol/μl	1.0			
primer 5	10 pmol/μl	1.0			
DNA		1.0			
Taq	5 U/μl	0.1			
	total	20			

Reaction Conditions

step	temp (℃)	time (sec)		note
1	94	180		
2	94	30	*	
3	60	30	*	
4	72	120	*	*Repeat for 30 cycles

Standard PCR



Marker
DNA Ladder,1 kb Plus (Affymetrix, Cat. 76714 500 UL)

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

PCR products	primer_set	product_size	product
primer 1	primer 2	1.2 kb	Tg(CAG-Il1rl1)
primer 1	primer 3	0.8 kb	Tg(CAG-GFP)
primer 4	primer 5	324 bp	Internal control (IL-2)

Comment