



PCR protocol

Sheet ID PS_08378
Release date : 8/17/2022
Print date : 8/17/2022

RBRC 01373

Strain name ICR.Cg-Tg(CAG-cat,-DII4)2Ysa/YsaRbrc

Primer	primer_name	primer_seq	length	Reference
1	5CAG	CCTACAGCTCCTGGGCAACGTGC	23	RIKEN BRC
2	exon 10	CTCTGTGGCAATCACACACTCG	22	RIKEN BRC
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	JAX Genotyping Protocol

Reaction Components

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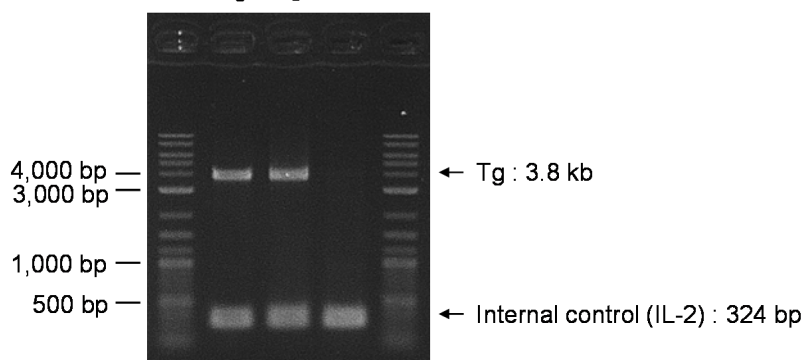
Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	300*	*Repeat for 30 cycles

Reagent	Conc	Reaction 1	2	3	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			

Marker	2-Log DNA Ladder (NEB, Cat. N3200)
Gel	1% agarose in 1 X TAE (100 V, 30 min)

Marker Tg Tg WT Marker



primer_set	product_size	product (allele type)
primer 1	primer 2	3.8 kb
primer 3	primer 4	324 bp

Non-Tg: 324 bp
Tg: 324 bp, 3.8 kb

Comment [Standard PCR](#)

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



Sheet ID PS_02522
Release date : 01/12/2010
Print date : 8/17/2022

Strain name CAG-CAT-DII4#2

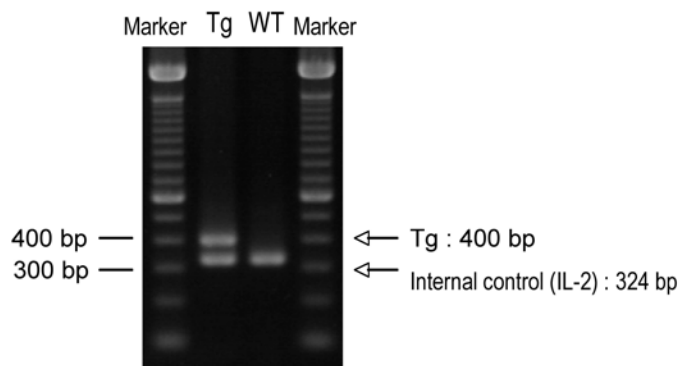
[illegible]

Enzyme	TaKaRa Ex Taq (Cat. No. RR001A)
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Reagent	Conc	Reaction 1	2	3	4	
H ₂ O		15.3				(μL)
PCR buffer	10 X	2.5				
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				
DNA		1.0				
Taq		0.2				
						Mark
						Gel
	total	25				

[illegible]

Marker	100 bp ladder (Invitrogen, Cat. 15628-050)
Gel	2% agarose in 1 X TAE (100 V, 30 min)



primer_set		product_size	product (allele type)
primer 1	primer 2	400 bp	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment Standard PCR

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PCR protocol

Sheet ID PS_00368
Release date : 11.19.2008
Print date : 8/17/2022

RBRC 01373

Strain name CAG-CAT-DII4#2

Primer	primer_name	primer_seq	length	Reference
1	CAT2	CAGTCAGTTGCTCAATGTACC	21	Depositor's primer
2	CAT3	ACTGGTGAAACTCACCCA	18	Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	Internal control (IL-2) JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	Internal control (IL-2) JAX Genotyping Protocol

Reaction Components

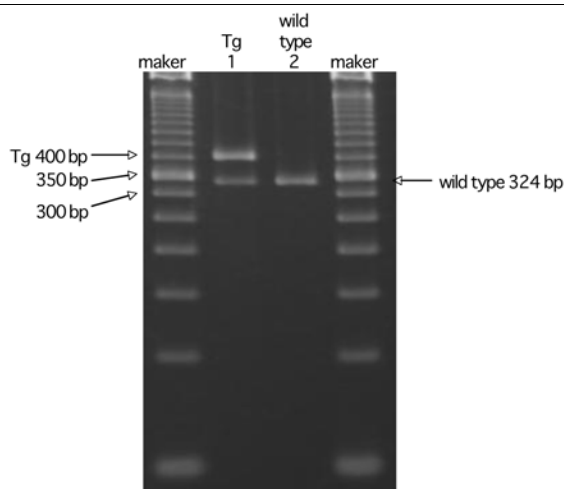
Enzyme	Roche Taq (Cat. No. BM1418432)
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Reagent	Conc	Reaction 1	2	3	4
H2O		15.3			
PCR buffer	10 X	2.5			
dNTP	2.5 mM	2.0			
primer 1	10 pmol/ μ l	1.0			
primer 2	10 pmol/ μ l	1.0			
primer 3	10 pmol/ μ l	1.0			
primer 4	10 pmol/ μ l	1.0			
DNA		1.0			
Taq		0.2			
total		25			

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	300	
2	94	30*	
3	55	30*	
4	72	60*	*Repeat for 35 cycles
5	72	300	

Marker	50 bp ladder (Invitrogen, Cat. 10416-014)
Gel	4% Nusieve in 0.5 X TBE (100 V, 50 min)



primer_set	product_size	product (allele type)
primer 1	primer 2	400 bp
primer 3	primer 4	324 bp

Comment [Standard PCR](#)