PCR protocol

Sheet ID PS_08388
Release date : 9/16/2022
Print date : 9/16/2022

RBRC 10719 **Strain name** C57BL/6J-Tg(Gfap-cre)1Ito

Primer	primer_name	primer_seq	length		Reference
1		CTCAGAGGCCTGGTGTGTAGG	21		RIKEN BRC
2	CW-Cre2	TCCGGTTATTCAACTTGCACCATGC	25		Nature, 406(6797): 726-731 (2000).
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24		JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25		JAX Genotyping Protocol

Reaction Components

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

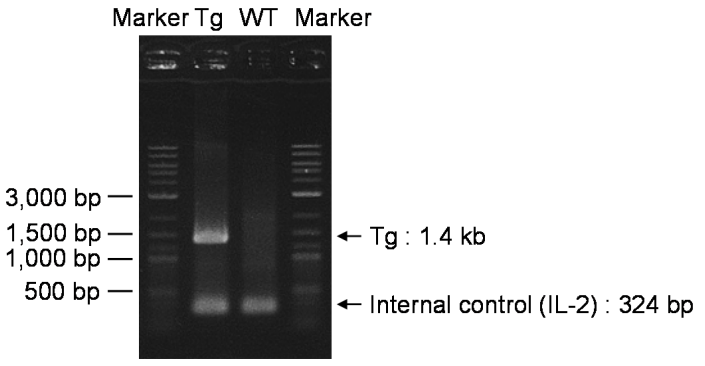
Reagent	Conc	Reaction 1	2	3	4	
H2O		0.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
	total	20				

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	60	30	*
4	68	180	* *Repeat for 30 cycles

Marker 2-Log DNA Ladder (NEB, Cat. N3200)

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



primer_set		product_size	product (allele type)
primer 1	primer 2	1.4 kb	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Non-Tg: 324 bp
Tg: 324 bp, 1.4 kb

Comment

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