PCR protocol

Sheet ID PS_08357
Release date : 8/17/2022
Print date : 8/17/2022

RBRC 02924 **Strain name** C57BL/6-Tg(Olfr1507-Olfr1509,-EYFP)1Hsak

Primer	primer_name	primer_seq	length		Reference
1	intron 1	GTTGTCAGTTCAGTCTCTGTGAGC	24		RIKEN BRC
2		GCGAAGCACTGCAGGCCGTAGCCGAAG	27		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)

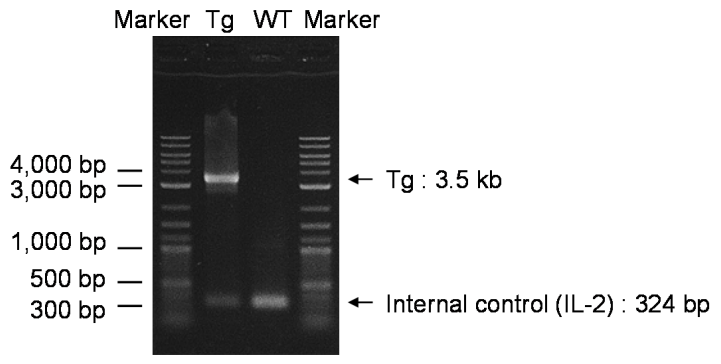
Reagent	Conc	Reaction 1	2	3	4	
H2O		0.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
	total	20				

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	65	30	*
4	68	240	* *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	3.5 kb	Tg	Non-Tg : 324 bp Tg : 324 bp, 3.5 kb
primer 3	primer 4	324 bp	Internal control (IL-2)	

Comment

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

PCR protocol

Sheet ID PS_02236
Release date : 5/6/2022
Print date : 8/17/2022

RBRC 02924 **Strain name** C57BL/6-Tg(Olfr1507-Olfr1509,-EYFP)1Hsak

Primer	primer_name	primer_seq	length		Reference
1	Ires-for	GCATTCCTAGGGGTCTTTCC	20		Depositor's primer
2	Ires-rev	TACGCTTGAGGAGAGCCATT	20		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 TaKaRa Ex Taq (Cat. No. RR001A)

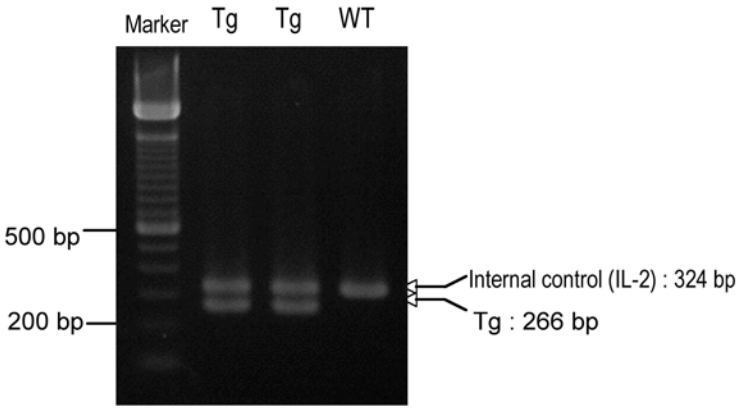
Reagent	Conc	Reaction 1	2	3	4	
H2O		15.3				(μL)
PCR buffer	10 X	2.5				
dNTP	2.5 mM	2.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
primer 4	10 pmol/μl	1.0				
DNA		1.0				
Taq		0.2				
total		25				

Reaction Conditions

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



primer_set		product_size	product (allele type)
primer 1	primer 2	266 bp	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment