

RBRC 02930

Strain name C57BL/6-Tg(Olfr1507,ECFP)1Hsak

Primer	primer_name	primer_seq	length	Reference
1	intron 1	GGTTCTAGATGTAGGTGTCATCG	23	RIKEN BRC
2	ECFP-R	ACTGCACGCCCCAGGTCAG	19	Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	JAX Genotyping Protocol

Reaction Components

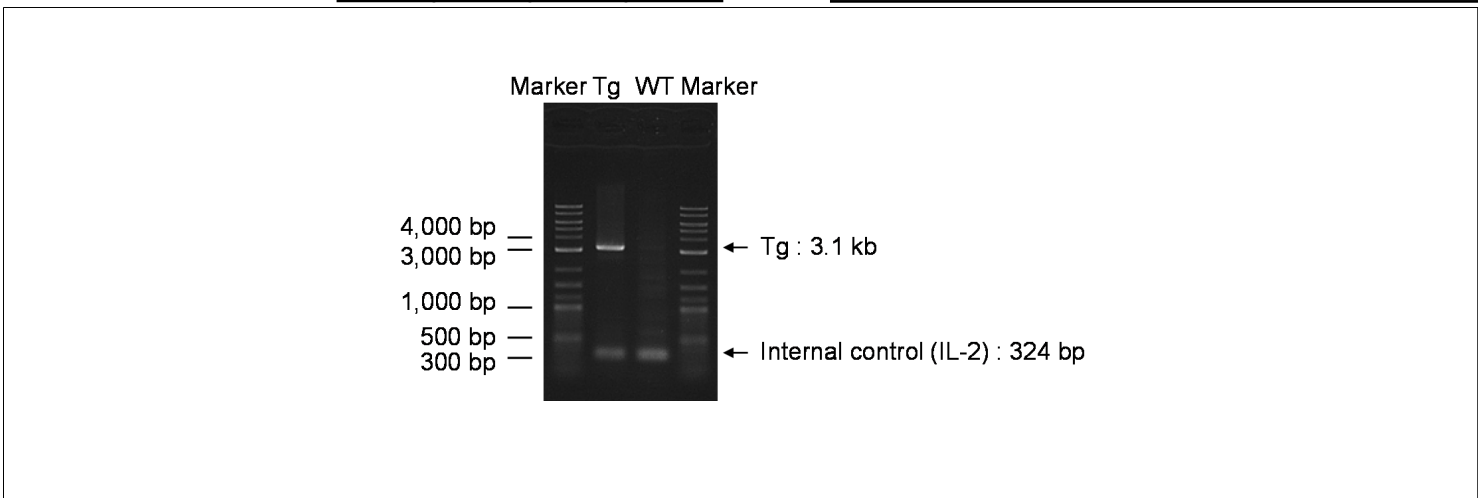
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	65	30*	
4	68	240*	*Repeat for 30 cycles

Reagent	Conc	Reaction 1	2	3	4	(μ L)
H2O		0.8				
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/ μ l	1.5				
primer 2	10 pmol/ μ l	1.5				
primer 3	10 pmol/ μ l	0.5				
primer 4	10 pmol/ μ l	0.5				
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)



primer_set	product_size	product (allele type)
primer 1	primer 2	3.1 kb
primer 3	primer 4	324 bp

Non-Tg : 324 bp
Tg : 324 bp, 3.1 kb

Comment

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

RBRC 02930

Strain name C57BL/6-Tg(Olfr1507,ECFP)1Hsak

Primer	primer_name	primer_seq	length	Reference
1	GFP-f	GCATCAAGGTGAACTTCAAGATCC	24	Depositor's primer
2	MOR28-3' UTR-r	TAGATGAGCATGTA ACTACTGCTG	24	Depositor's primer
3	oIMR0015	CAAATGTTGCTTGTCTGGTG	20	Internal control (Tcrd) JAX Genotyping Protocol
4	oIMR0016	GTCAGTCGAGTGCACAGTTT	20	Internal control (Tcrd) JAX Genotyping Protocol

Reaction Components

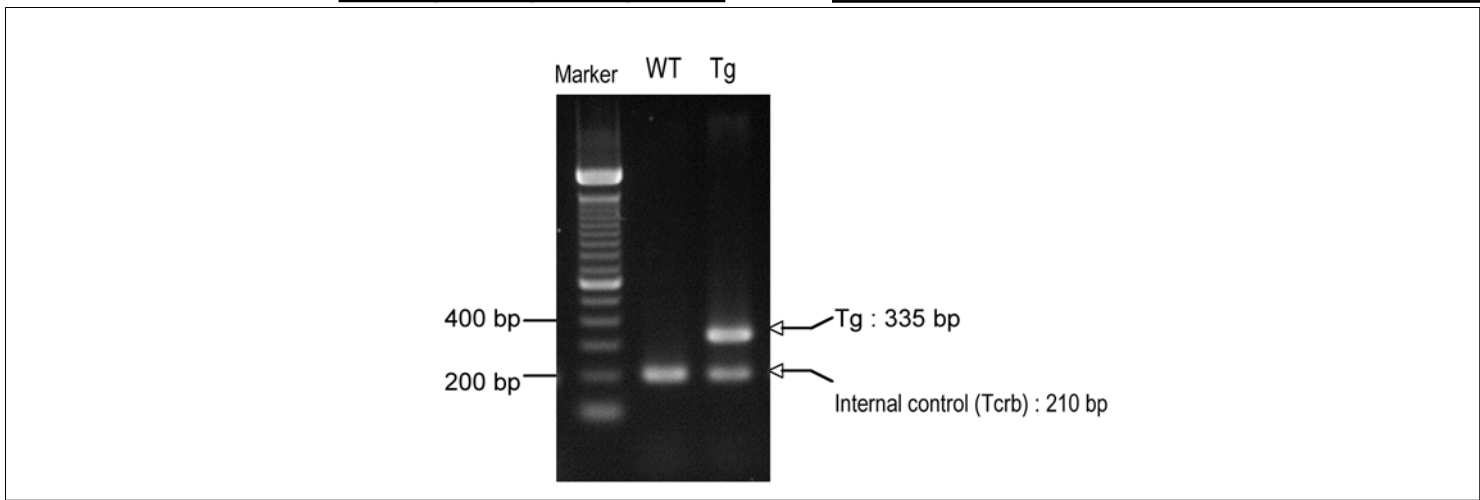
Enzyme TaKaRa Ex Taq (Cat. No. RR001A)

Reagent	Conc	Reaction 1	2	3	4	(μ L)
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	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	335 bp Tg
primer 3	primer 4	210 bp Internal control (Tcrd)

Comment