

RBRC 10443

Strain name B6D2-Tg(Clgn-Izumo1/EYFP1-155<*>F46L/V150A/M153T, Clgn-Izumo1/EYFP156

Primer	primer_name	primer_seq	length	Reference
1	196	CCTTCCTGCGGCTTGTCTCT	21	Depositor's primer
2	IZUMO1-NR	ACTCCAGCTTGTGCCCCAGGATGT	24	Depositor's primer
3	IZUMO1-CR	CATGACCTTCTGTTTCAGGTCGTTT	25	Depositor's primer
4	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	JAX Genotyping Protocol
5	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	JAX Genotyping Protocol

Reaction Components

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

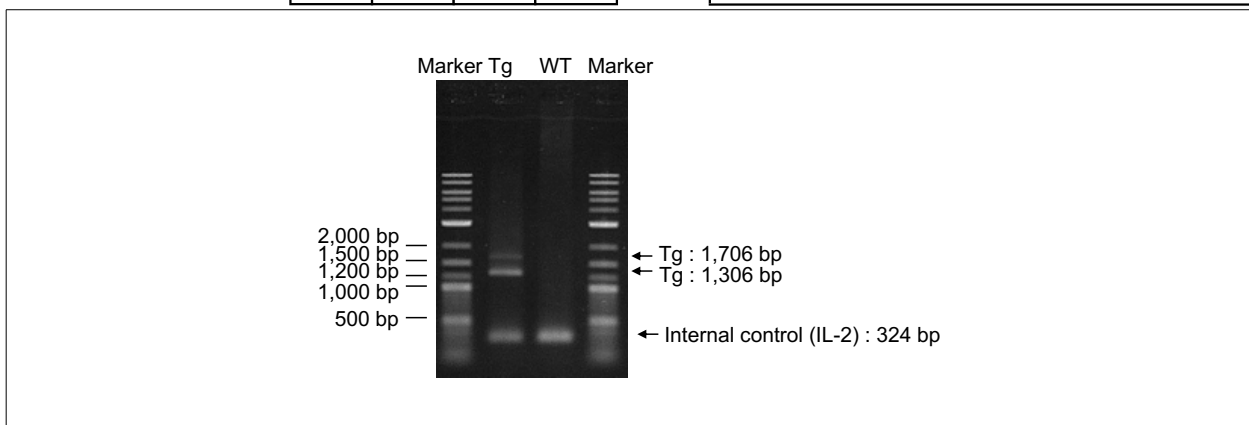
Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	63	30*	
4	68	180*	*Repeat for 30 cycles

Reagent	Conc	Reaction 1	2	3	4
H2O		2.3			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
primer 1	10 pmol/μl	0.5			
primer 2	10 pmol/μl	0.5			
primer 3	10 pmol/μl	0.5			
primer 4	10 pmol/μl	0.5			
primer 5	10 pmol/μl	0.5			
DNA		1.0			
Taq	1 U/μl	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	1,706 bp	Tg
primer 1 primer 3	1,306 bp	Tg
primer 4 primer 5	324 bp	Internal control (IL-2)

Non-Tg : 324 bp
Tg : 1,706 bp, 1,306 bp

Comment Standard PCR

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