

RBRC 09713

Strain name ICR.Cg-Gata3<tm1.1(GFP)Mpu>Tg(Gata3)1Mpu

Primer	primer_name	primer_seq	length	Reference
1	P1	CGAAGACCTAGTGCCCTCCAGAATTTTCAGG	30	Depositor's primer
2	P2	AAACGCGGATCCAAAAGGTTCCAGCGCCAA	30	Depositor's primer
3	LA-s	GTGATAAATTAAGTCTTGCGCCTTAAACC	30	Depositor's primer
4	LA-as	GCTACTTGGAGCCACTATCGACTACGCGAT	30	Depositor's primer
5	RA-s	ACGGTGACTGTGAATGTTGCGG	22	Depositor's primer
6	RA-as	TGCTTGGGAGTTGGGAATTGAAG	23	Depositor's primer

Reaction Components

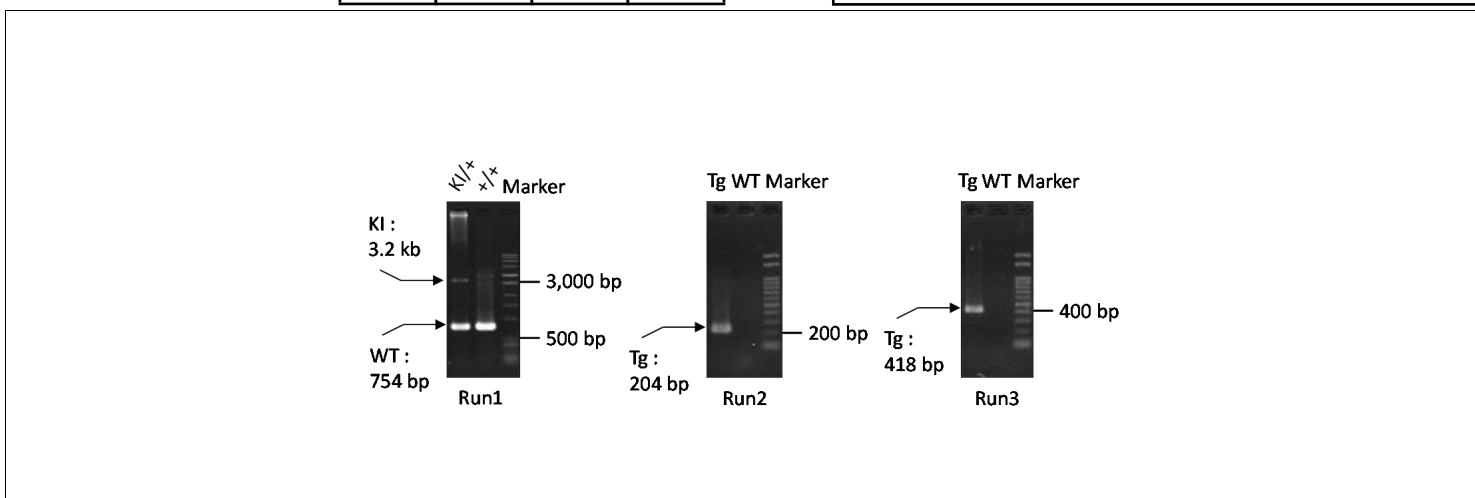
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reagent	Conc	Reaction 1	2	3	4
H2O		2.8	2.8	2.8	
PCR buffer	2 X	10.0	10.0	10.0	
dNTP	2.0 mM	4.0	4.0	4.0	
primer 1	10 pmol/μl	1.0	0	0	
primer 2	10 pmol/μl	1.0	0	0	
primer 3	10 pmol/μl	0	1.0	0	
primer 4	10 pmol/μl	0	1.0	0	
primer 5	10 pmol/μl	0	0	1.0	
primer 6	10 pmol/μl	0	0	1.0	
DNA		1.0	1.0	1.0	
Taq	1 U/μl	0.2	0.2	0.2	
total		20	20	20	

Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	[Reaction 1]
2	98	10*	
3	60	30*	
4	68	360*	*Repeat for 30 cycles
1	94	120	[Reaction 2, 3]
2	98	10*	
3	60	30*	
4	68	60*	*Repeat for 30 cycles

Marker Run1: DNA Ladder, 1 kb Plus (Affymetrix, Cat. 76714 500 UL) , Run2, 3: Gene Ladder 100 (Wako, Cat. 316-06951)
Gel Run1: 1 % agarose in 1 X TAE (100 V, 30 min), Run2: 2 % agarose in 1 X TAE (100 V, 30 min)



primer_set	product_size	product (allele type)
primer 1	754 bp	WT
primer 1	3.2 kb	KI
primer 3	204 bp	Tg
primer 5	418 bp	Tg

Comment Standard PCR

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