PCR protocol

Sheet ID PS_07602
Release date : 8/8/2022
Print date : 8/8/2022

RBRC 10241 **Strain name** B6-Tg(Scn1a-GFP)1Kzy

Primer	primer_name	primer_seq	length		Reference
1	mScn1a_TG_check_F1	TGTTCTCCACGTTTCTGGTT	20		Depositor's primer
2	mScn1a_TG_check_R1	TTAGCCTTCTCTTCTGCAATG	21		Depositor's primer
3	EGFP_R1	GCTCCTGGACGTAGCCTTC	19		Depositor's primer

Reaction Components

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

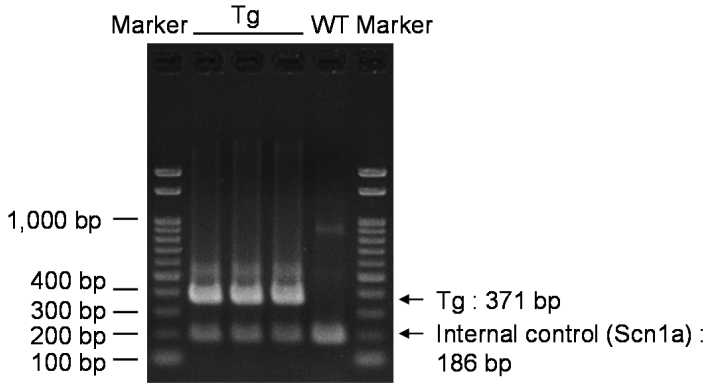
Reagent	Conc	Reaction 1	2	3	4	
H2O		1.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
primer 3	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
	total	20				

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	55	30	*
4	68	60	* *Repeat for 30 cycles

Marker Gene Ladder 100 (Wako, Cat. 316-06951)

Gel 2% agarose in 1 X TAE (100 V, 30 min)



primer_set		product_size	product (allele type)	
primer 1	primer 2	186 bp	Internal control	Non-Tg: 186 bp
primer 1	primer 3	371 bp	Tg	Tg: 186 bp, 371 bp

Comment Standard PCR

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