PCR protocol

Sheet ID PS_08664
Release date : 9/12/2024
Print date : 9/12/2024

RBRC 05853 **Strain name** B6.Cg-Igh<tm1(AK23)>

Primer	primer_name	primer_seq	length		Reference
1	05853_F	GACAGATGGACCTCCATCTGCTC	23		RIKEN BRC
2	05853_R	GCATCCACCCTTCTGATGCTTGC	23		RIKEN BRC
3	EAD_2866_com	GTGTGGCGGACCGCTATCAGGAC	23		RIKEN BRC

Reaction Components

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

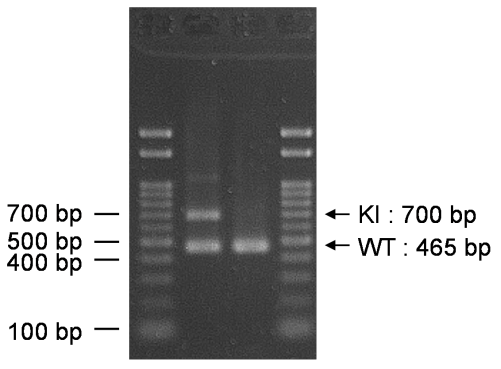
Reagent	Conc	Reaction 1	2	3	4	
H2O		0.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2 mM	4.0				
primer 1	10 pmol/μl	2.0				
primer 2	10 pmol/μl	0.5				
primer 3	10 pmol/μl	1.5				
DNA		1.0				
Taq	1 U/μl	0.2				
	total	20				

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	120	
2	98	10	*
3	60	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	465 bp	WT
primer 1	primer 3	700 bp	KI

Comment Standard PCR

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