PCR protocol

Sheet ID PS_08410
Release date : 11/18/2022
Print date : 11/18/2022

RBRC 11837 **Strain name** B6;B6D2-Adra1a<em1Makot>

Primer	primer_name	primer_seq	length		Reference
1	Adra1a-9	TCCAGGTGACTATGGTGCAA	20		Nat. Neurosci., 23(11):1376-1387 (2020).
2	Adra1a-8	TCCCCACCTCAAATAATGACA	21		Nat. Neurosci., 23(11):1376-1387 (2020).

Reaction Components

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

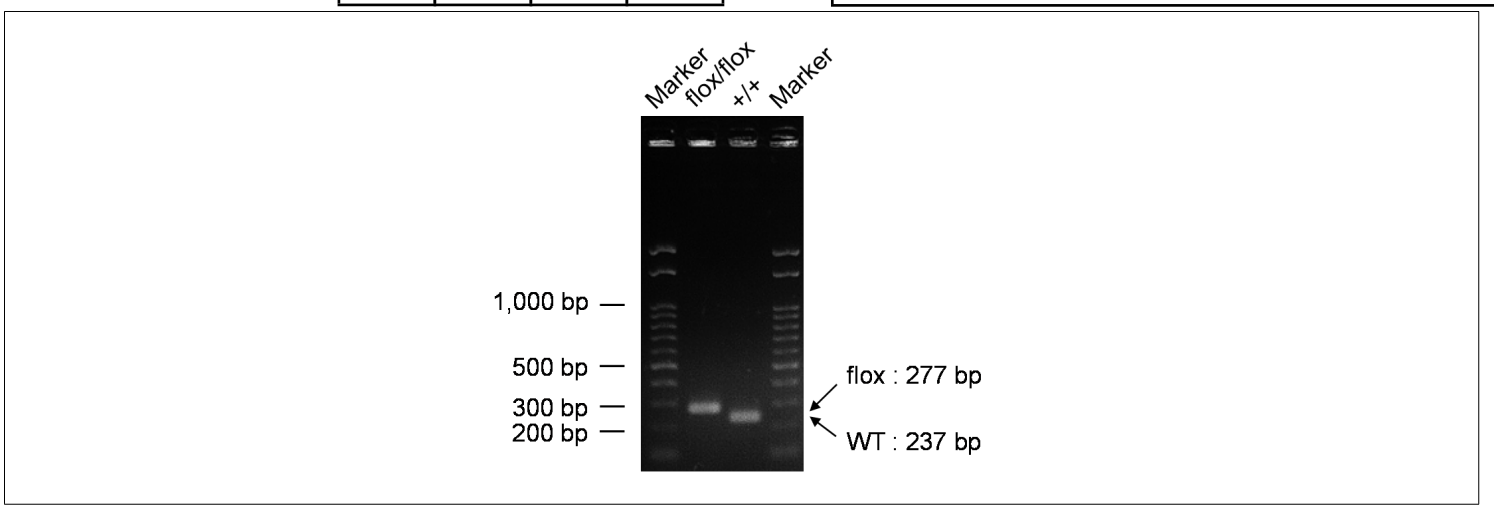
Reagent	Conc	Reaction 1	2	3	4	
H2O		2.8				(μL)
PCR buffer	2 X	10.0				
dNTP	2.0 mM	4.0				
primer 1	10 pmol/μl	1.0				
primer 2	10 pmol/μl	1.0				
DNA		1.0				
Taq	1 U/μl	0.2				
	total	20				

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	237 bp	WT	
primer 1	primer 2	277 bp	flox	

Comment

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