

RBRC 10582

Strain name C57BL/6N-Adrm1 <tm1Smta>

Primer	primer_name	primer_seq	length	Reference
1	Rpn13 genoS2	GTTCTGGTCACCTGAGCACAAGGATC	26	PLoS Genet., 11(7): e1005401 (2015).
2	Rpn13 11670AS2	TAGCCACAAGAGGCTGTAGTGACCAC	26	PLoS Genet., 11(7): e1005401 (2015).

### Reaction Components

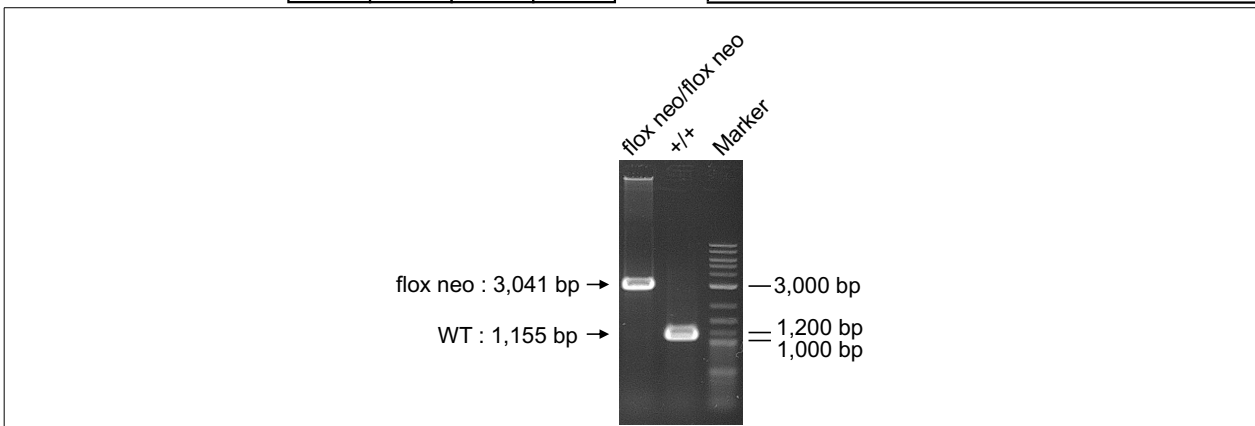
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

Reagent	Conc	Reaction 1	2	3	4
H2O		2.8			
PCR buffer	2 X	10.0			
dNTP	2.0 mM	4.0			
primer 1	10 pmol/ $\mu$ l	1.0			
primer 2	10 pmol/ $\mu$ l	1.0			
DNA		1.0			
Taq	1 U/ $\mu$ l	0.2			
<b>total</b>		20			

### Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	240*	*Repeat for 30 cycles

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	1,155 bp	WT
primer 1	primer 2	3,041 bp	flox neo

+/+ (wild-type): 1,155 bp  
flox neo/flox neo (homozygous): 3,041 bp

Comment Standard PCR

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