

RBRC 01950

Strain name B6;129S4-Xist<tm1Sado> Tsix<tm1Enl>

Primer	primer_name	primer_seq	length	Reference
1	01950	GTACCTGCAAGCGCTACACAC	21	RIKEN BRC
2	01950	GGCTCCAGGACCCAGCAGAC	20	RIKEN BRC
3	Ires-rev	TACGCTTGAGGAGAGCCATT	20	Depositor's primer
4	Xist-GFP W	TTCTGCCCAGAACAGACCAC	20	Depositor's primer
5	XistGFP-R	TACAACAATGGTCCTAGTTTCC	22	Depositor's primer
6	EGFP5'	TGAACCGCATCGAGCTGAAGGG	22	Depositor's primer

Reaction Components

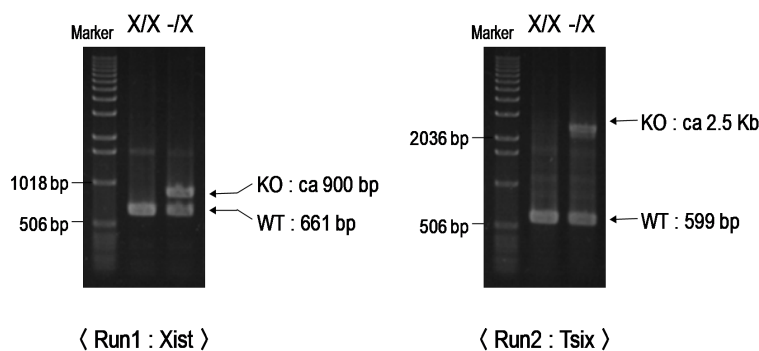
Enzyme	TOYOBO KOD FX (Code.No : KFX-101)
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Reaction Conditions

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

Reagent	Conc	Reaction 1	2	3	4
H2O		1.8	1.8		
PCR buffer	2 X	10.0	10.0		
dNTP	2.0 mM	4.0	4.0		
primer 1	10 pmol/ μ l	1.0	0		
primer 2	10 pmol/ μ l	1.0	0		
primer 3	10 pmol/ μ l	1.0	1.0		
primer 4	10 pmol/ μ l	0	1.0		
primer 5	10 pmol/ μ l	0	1.0		
DNA		1.0	1.0		
Taq		0.2	0.2		
total		20	20		

Marker	1 kb DNA ladder (Invitrogen, Cat. 15615-024)
Gel	1% agarose in 1 X TAE (100 V, 30 min)



primer_set	product_size	product (allele type)
primer 1	primer 2	599 bp WT (Tsix)
primer 1	primer 3	ca 2.5 kb KO (Tsix)
primer 4	primer 5	661 bp WT (Xist)
primer 6	primer 5	ca 900 bp KO (Xist)

Comment Separated PCR

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



Sheet ID PS_01008
Release date : 07/08/2010
Print date : 5/9/2022

Strain name Xist/Tsix double KO mouse

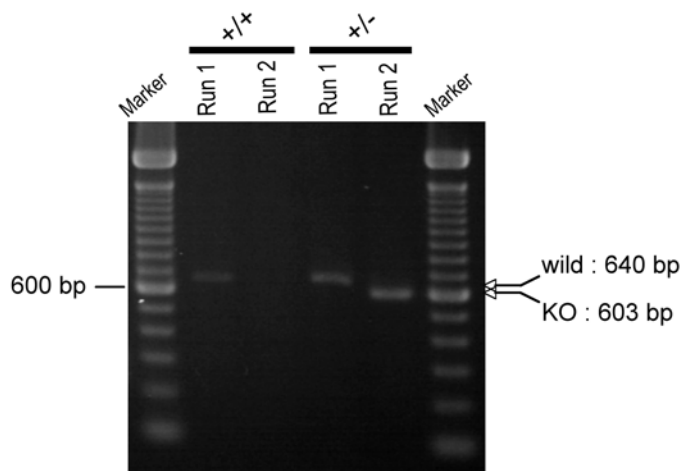
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Enzyme	Roche Taq (Cat. No. BM1418432)
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Reagent	Conc	Reaction 1	2	3	4	
H2O		17.3	17.3			(μ L)
PCR buffer		2.5	2.5			
dNTP		2.0	2.0			
primer 1		0	1.0			
primer 2		1.0	0			
primer 3		1.0	1.0			
DNA		1.0	1.0			
Taq		0.2	0.2			
						Mark
						Gel
	total	25	25			

[illegible]

Marker	100 bp ladder (Invitrogen, Cat. 15628-050)
Gel	2% agarose in 1 X TAE (100 V, 35 min)



primer_set		product_size	product (allele type)
primer 2	primer 3	603 bp	KO
primer 1	primer 3	640 bp	WT

Comment Separated PCR

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