PCR protocol

Sheet ID PS_05934
Release date : 6/9/2015
Print date : 6/9/2015

RBRC 05517 Strain name B6;129S4-Xbp1<tm1Tiw>

Primer	primer_name	primer_seq	length		
1	5-XBP1-2	CACCCTAAGGCCCAGTTTGC	20		Depositor's primer
2	3-XBP1-5	ACACGAGAGAGTCCCAATCC	20		Depositor's primer
3	Neo_F	GGTGGAGAGGCTATTCGGCTATG	23		RIKEN BRC

Reaction Components

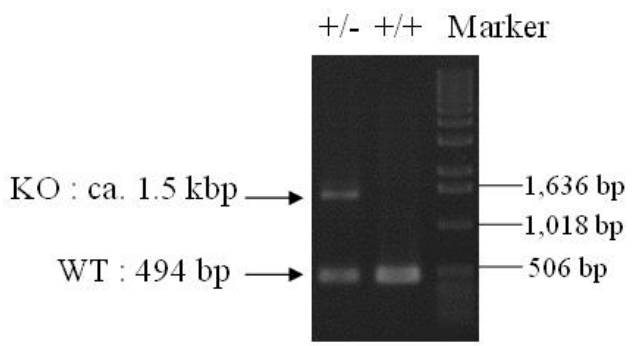
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		1.8			
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	60	30	*
4	68	120	* *Repeat for 30 cycles

Standard PCR



Marker

1 kb DNA ladder (Invitrogen, Cat. 15615-024)

Gel

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

PCR products

primer_set		product_size	product
primer 1	primer 2	494 bp	WT
primer 1	primer 3	ca. 1.5 kbp	KO

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

PCR protocol

Sheet ID PS_05241
Release date : 3/24/2014
Print date : 6/9/2015

RBRC 05517 Strain name B6;129S4-Xbp1<tm1Tiw>

Primer	primer_name	primer_seq	length		
1	5-XBP1-2	CACCCTAAGGCCCAGTTTGC	20		Depositor's primer
2	3-XBP1-5	ACACGAGAGAGTCCCAATCC	20		Depositor's primer
3	3-KOV-1	CCTCGAAGCTTATCGATACC	20		Depositor's primer

Reaction Components

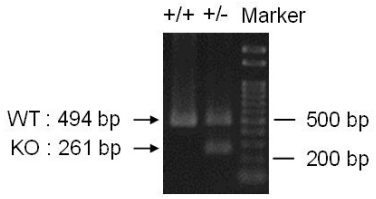
Enzyme: TOYOBO KOD FX (Code.No : KFX-101)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		1.8			
PCR buffer	2 X	10.0			
dNTP	2 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	57	30	*
4	68	60	* *Repeat for 30 cycles

Standard PCR



Marker

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

Gel

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

PCR products

primer_set		product_size	product
primer 1	primer 2	494 bp	WT
primer 1	primer 3	261 bp	KO

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