

RBRC 10849

Strain name B6;B6129-Tet2^{tm1.1Hko}

Primer	primer_name	primer_seq	length	Reference
1	TET2-U93745	GTACAATCAGACCACAAGAGC	21	Depositor's primer
2	TET2-L97732	GTCTACATGGCTGCACTATTG	21	Depositor's primer
3	TET2-U92529	AGTGGTTACGTGGGTGTTTAC	21	Depositor's primer

Reaction Components

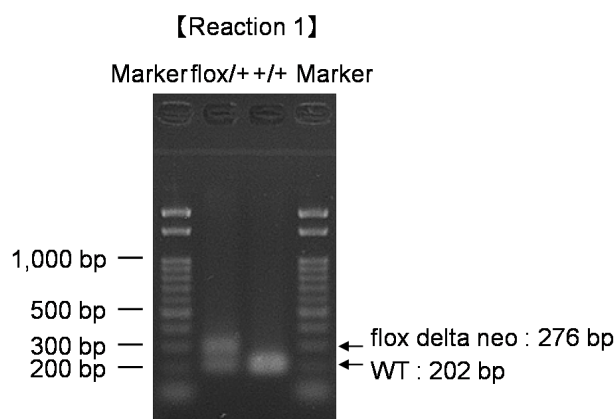
Enzyme	TOYOBO KOD FX (Code.No : KFX-101)
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Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	[Reaction 1]
2	98	10*	
3	60	30*	
4	68	60*	*Repeat for 30 cycles
1	94	120	[Reaction 2]
2	98	10*	
3	60	30*	
4	68	180*	*Repeat for 30 cycles

Reagent	Conc	Reaction 1	2	3	4
H2O		2.8	2.8		
PCR buffer	2 X	10.0	10.0		
dNTP	2.0 mM	4.0	4.0		
primer 1	10 pmol/μl	1.0	0		
primer 2	10 pmol/μl	1.0	1.0		
primer 3	10 pmol/μl	0	1.0		
DNA		1.0	1.0		
Taq	1 U/μl	0.2	0.2		
total		20	20		

Marker	marker Run1: Gene Ladder 100 (Wako, Cat. 316-06951), marker Run2: 2-Log DNA Ladder (NEB, Cat. N3200)
Gel	Run1:2% agarose in 1 X TAE (100 V, 30 min)Run2:1% agarose in 1 X TAE (100 V, 30 min)



primer_set	product_size	product (allele type)	
primer 1	primer 2	202 bp	WT
primer 1	primer 2	276 bp	flox delta neo
primer 2	primer 3	1,418 bp	WT
primer 2	primer 3	1,526 bp	flox delta neo
primer 2	primer 3	249 bp	null (After cre mediated excision)

Reaction 1
+/+ (wild-type): 202 bp
flox/+ (heterozygous): 202 bp and 276 bp

Comment [Standard PCR](#)

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