

RBRC 04926

Strain name B6;129-Epha2<Gt(ROSABetageo)CN3Yiw>

Primer	primer_name	primer_seq	length	Reference
1	Forward	CTCCTTGCTTCCAGCAAATC	20	Depositor' s primer
2	Reverse	GAAGGGGCTTTGAAGGGTTA	20	Depositor' s primer
3	P2	ACCTGAAATGACCCTGTGCCTTAT	24	Dev Dyn., 239(4):1089-101 (2010).

Reaction Components

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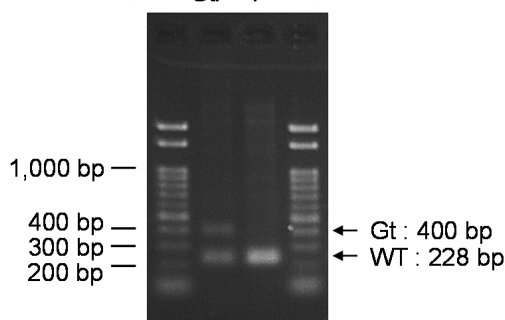
Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	55	30*	
4	68	60*	*Repeat for 30 cycles

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

Marker	Gene Ladder 100 (Wako, Cat. 316-06951)
Gel	2% agarose in 1 X TAE (100 V, 30 min)

Marker Gt/+ +/+ Marker



primer_set	product_size	product (allele type)
primer 1	primer 2	228 bp WT
primer 1	primer 3	400 bp Gt

Comment [Standard PCR](#)

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

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Strain name B6;129-Epha2<Gt(ROSA^{Betageo})CN3Yiw>

Primer	primer_name	primer_seq	length	Reference
1		TGCGTGAGCCAGCCGAGCTC	20	RIKEN BRC
2	Forward	CTCCTTGCTTCCAGCAAATC	20	Depositor's primer
3	Neo30	GGCACATGGCTGAATATCGACGG	23	RIKEN BRC

Reaction Components

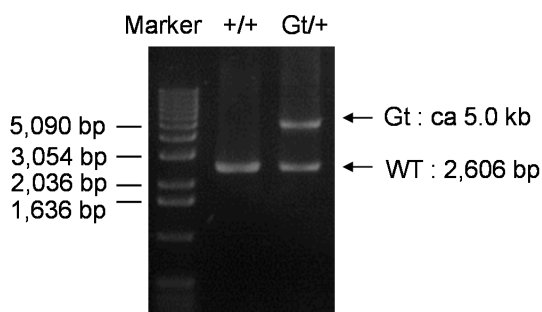
Enzyme	TOYOBO KOD FX (Code.No : KFX-101)
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Reaction Conditions

step	temp (°C)	time (sec)	note
1	94	120	
2	98	10*	
3	60	30*	
4	68	300*	*Repeat for 30 cycles

Reagent	Conc	Reaction 1	2	3	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			

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	2,606 bp
primer 1	primer 3	ca 5.0 kb

Comment [Standard PCR](#)

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