

RBRC 11531

Strain name STOCK Shc2<tm1Paw>

Primer	primer_name	primer_seq	length	Reference
1	ShcB s1 (WT)	AGATCATCGCCAACCATCAT	20	Depositor' s primer
2	ShcB as1 (WT)	ACAGCATTCCAAGATGTGGC	20	Depositor' s primer
3	1-CN3-3	AAGGAAAACCCACGTCCCCGTGGTTC	25	RIKEN BRC

Reaction Components

Enzyme

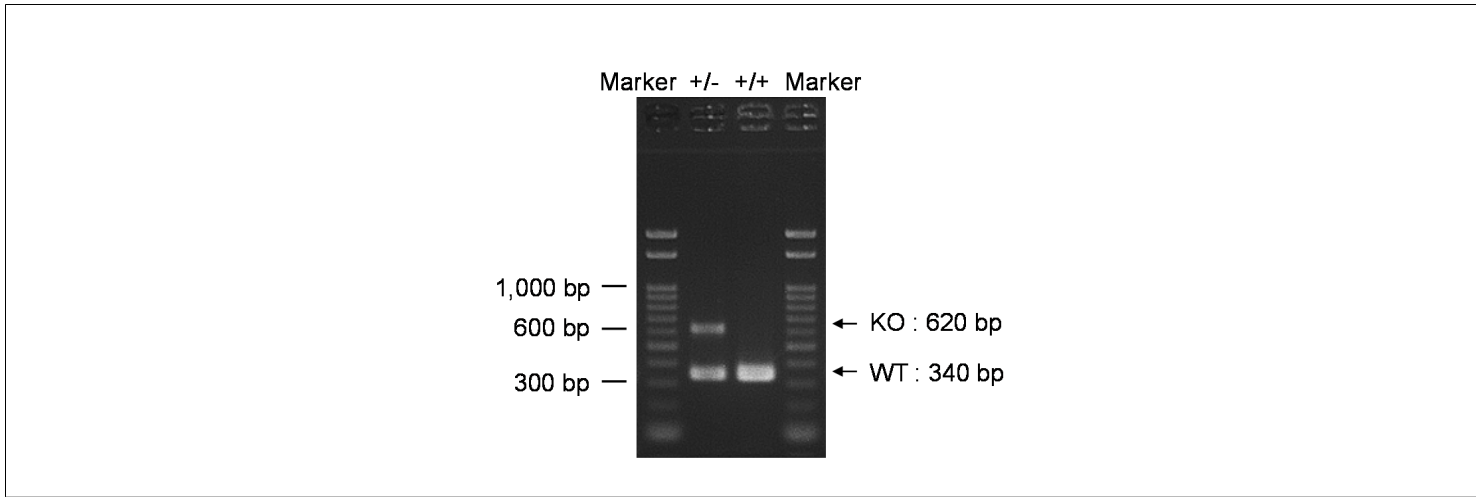
Reaction Conditions

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

Reagent	Conc	Reaction 1	2	3	4	(μL)
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 Gene Ladder 100 (Wako, Cat. 316-06951)

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



primer_set	product_size	product (allele type)	
primer 1	primer 2	340 bp	WT
primer 1	primer 3	620 bp	KO

+/+ (wild-type): 340 bp
+/- (heterozygous): 340 bp and 620 bp

Comment [Standard PCR](#)

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