PCR protocol

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RBRC 06222 **Strain name** B6.Cg-Slc39a14<tm1Thir>

Primer	primer_name	primer_seq	length		
1	WT/Hetero Forward	TGCTGCTGCTATTTGGGTCT	20		PLoS One. 6(3):e18059 (2011)
2	WT/Hetero/KO Reverse	GAATGCTGCATTGAAAAGGTC	21		PLoS One. 6(3):e18059 (2011)
3	5Neo	TGGATTGCACGCAGGTTCTC	20		Proc. Natl. Acad. Sci. USA, 94, 13069-13074 (1997).

Reaction Components

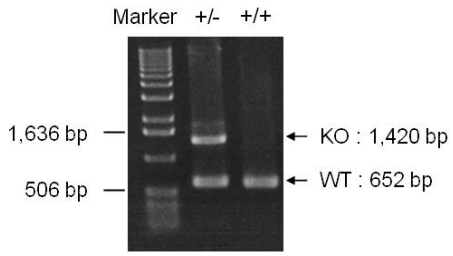
Enzyme TOYOBO KOD FX (Code.No : KFX-101)

	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	180	* *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	652 bp	WT
primer 2	primer 3	1,420 bp	KO

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