PCR protocol

RBRC 02703 **Strain name** B6.Cg-Tg(CAG-Slc11a2)Q

Primer

	primer_name	primer_seq	length		
1	rDMT1-R	CCCCTGACAAAACCAGTCAT	20		Depositor's primer
2	rDMT1-F	TGCTTGGTGGCCTAAAACTC	20		Depositor's primer
3	olMR0042	CTAGGCCACAGAATTGAAAGATCT	24	Internal control (IL-2)	JAX Genotyping Protocol
4	olMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	Internal control (IL-2)	JAX Genotyping Protocol

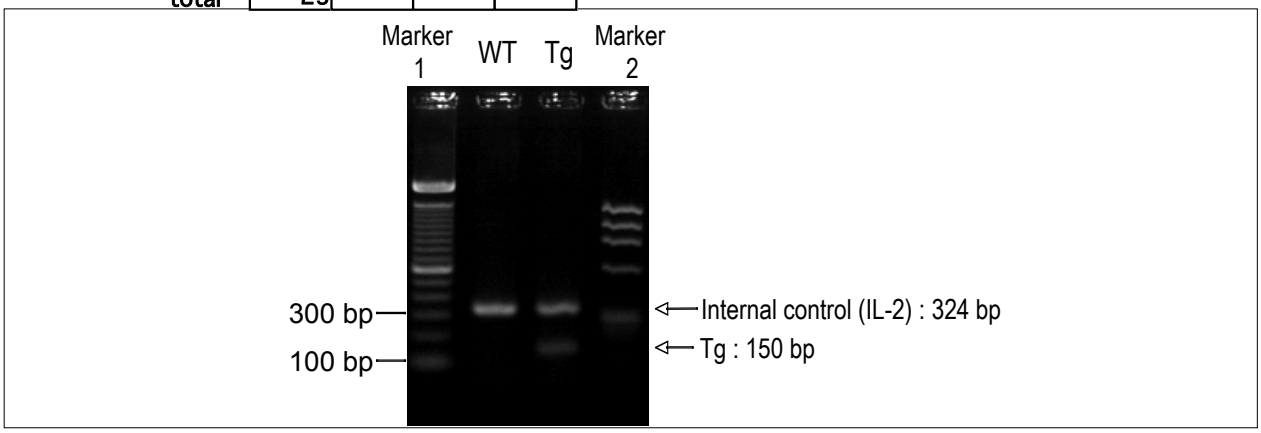
Reaction Components

Enzyme Roche Taq (Cat. No. BM1418432)

	Conc	Run 1	Run 2	Run 3	Run 4
H2O		15.3			
PCR buffer	10 X	2.5			
dNTP	2.5 mM	2.0			
primer 1	10 pmol/μl	1.0			
primer 2	10 pmol/μl	1.0			
primer 3	10 pmol/μl	1.0			
primer 4		1.0			
DNA		1.0			
Taq		0.2			
	total	25			

Reaction Conditions

step	temp (℃)	time (sec)	note
1	94	180	
2	94	30	*
3	60	30	*
4	72	30	* *Repeat for 35 cycles
5	72	300	



Marker

marker 1:100 bp ladder (Invitrogen, Cat. 15628-050), marker2: ϕX174 Hae III

Gel

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

PCR products

primer_set		product_size	product
primer 1	primer 2	150 bp	Tg
primer 3	primer 4	324 bp	Internal control (IL-2)

Comment