

# PCR protocol

RBRC 02702

Strain name B6.Cg-Tg(CAG-Slc11a2)N

Primer	primer_name	primer_seq	length	
1	rDMT1-R	CCCCTGACAAAACCAGTCAT	20	Depositor's primer
2	rDMT1-F	TGCTTGGTGGCCTAAACTC	20	Depositor's primer
3	oIMR0042	CTAGGCCACAGAATTGAAAGATCT	24	Internal control (IL-2) JAX Genotyping Protocol
4	oIMR0043	GTAGGTGGAAATTCTAGCATCATCC	25	Internal control (IL-2) JAX Genotyping Protocol

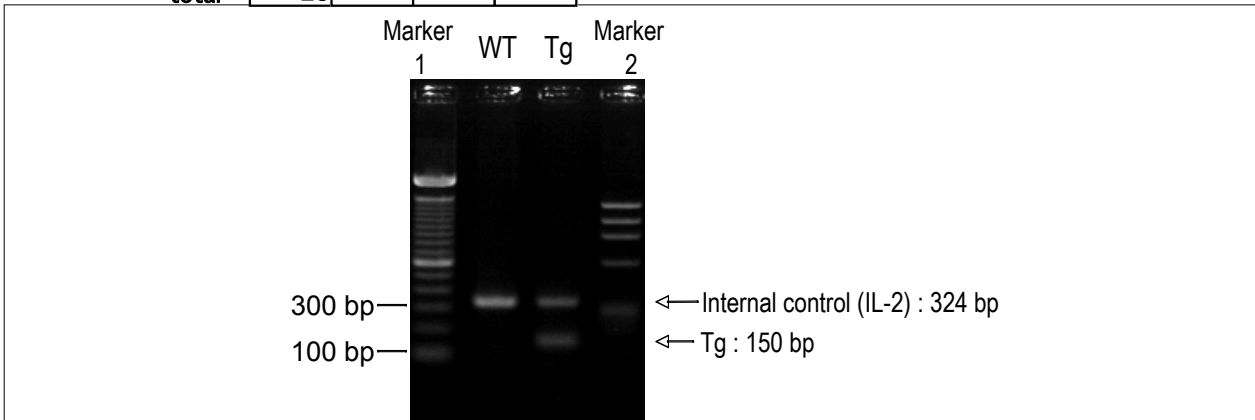
**Reaction Components**

**Enzyme**

**Reaction Conditions**

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

	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	10 pmol/μl	1.0			
DNA		1.0			
Taq		0.2			
total		25			



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

Comment