

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	30512
MMRRC Strain Name	FVB.Cg-Tg(Drd1a-tdTomato)5Calak/Mmnc
Gene Name(s)	Dopamine receptor D1A (Drd1a)
Breeding Protocol(s)	Intra-Strain Breeding Backcross to FVB/N (Taconic)
Protocol Date	11/18/13

MMRRC# 30512 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 45 sec

Step 2: 55°C for 30 sec

Step 3: 72°C for 60 sec

36x

Taq: **Apex and Chromataq 5X Buffer**

Bands: Tg indicated by 846bp band

WT: no band

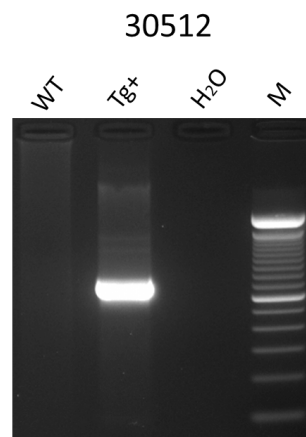
	<u>1X</u>
DNA	1.0
5X Buffer	5.0
10mM dNTPs	1.0
20 uM Primer F&R	1.0
Taq	1.0
ddH ₂ O	14.0
25mM MgCl ₂	2.0

Primer sequences 5' to 3': Primers are 10uM with respect to each primer (20uM total).

P1: BGH-F (forward primer), 5-CTT CTG AGG CGG AAA GAA CC-3

P2: dDR4 (reverse primer), 5-TTT CTG ATT GAG AGC ATT CG-3.

Run on 2.0% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)