

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	399
MMRRC Strain Name	C3;B6-Tg(Prnp-APOE4)3R1Dbo/Mmnc
Gene Name(s)	Prion protein (Prnp), Apolipoprotein E (APOE Human)
Breeding Protocol(s)	Backcross to B6/C3JF1
Protocol Date	10/21/13

MMRRC #399 PCR Reaction

	1X
ddH ₂ O	10.5
5X Buffer	5.0
25 mM MgCl ₂	2
10 mM dNTPs	0.5
10 μM Primer F	1
10 μM Primer R	1
Taq	0.5
DMSO	2.5
DNA	2

Thermal Cycler:

Step 1: 94 °C for 5 min
 Step 2: 94 °C for 30 sec
 Step 3: 60 °C for 30 sec
 Step 4: 72 °C for 45 sec
 Step 5: 30 x from step 2 to step 4
 Step 6: 72 °C for 7 min

Taq: Apex and Chromataq 5X Buffer

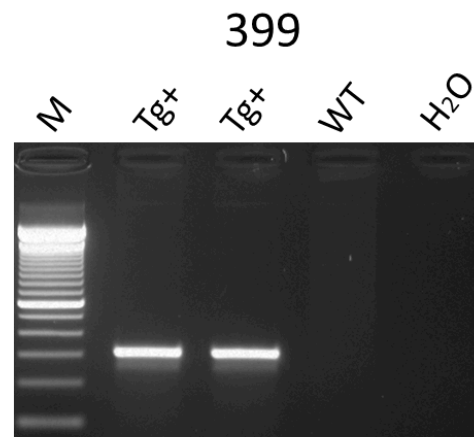
Primer sequences 5' to 3': Primers are 10 μM with respect to each primer.

ApoE-F (399): CACAGGCAGGAAGATGAAGG

ApoE-R (399): CAGTTGTTCTCCAGTTCCG

Bands expected: Tg: 313 bp

Run on 1% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)