

PROTOCOL FOR 3C7 MOUSE GENOTYPING

Procedure

Genotyping of offspring from 3C7 breeding colony is based on PCR.

PCR primers

For wt:

5' forward primer (primer 1) 5' cca atc ttg ctt ctt tgc tga gc 3'

3' reverse primer (primer 3) 5' ggc tca tgc ttg aat gtt tca g 3'

For tg:

5' forward primer (primer 1) 5' cca atc ttg ctt ctt tgc tga gc 3'

3' reverse primer (primer 2) 5' atc atg caa gct ggt ggc tg 3'

PCR profil; program 3C7-WT versus 3C7-TG

For wt:

94 °C, 10 min

94 °C, 1 min 35 cycles

55 °C, 1 min

72 °C, 1 min

72 °C, 10 min

4 °C, ∞

For tg:

95 °C, 10 min

95 °C, 1 min 35cycles

60 °C, 1 min

72 °C, 1 min + 1 s/cycle

72 °C, 10 min

4 °C, ∞

PCR mix

	<i>For wt:</i>	<i>For tg:</i>
10 x PCR Gold buffer (Perkin Elmer)	5.0 μ l	5.0 μ l
MgCl ₂ (25 mM)	2.5 μ l	3.0 μ l
dNTPs (10 mM)	0.5 μ l	0.5 μ l
primer 1 (20 μ M)	0.5 μ l	0.5 μ l
primer 2 (20 μ M)	-	0.5 μ l
primer 3 (20 μ M)	0.5 μ l	-
AmpliTaq Gold (5 U/ μ l)	0.25 μ l	0.25 μ l
DNA template (~ 0.5 μ g tail DNA)	1.0 μ l	1.0 μ l
ddH ₂ O	<u>18.75 μl</u>	<u>19.25 μl</u>
	30 μ l	30 μ l

Post-PCR analysis

Load 10 μ l of the PCR reaction on a 1.5 % agarose gel.

Expected results; wt ~ 280 bp and tg ~ 600 bp