

PROTOCOL FOR Tie1-Cre MOUSE GENOTYPING

Procedure

Genotyping of offspring from Tie1-Cre breeding colony is based on PCR. Homozygous animals are breed.

PCR primers

5' forward primer (cre-forward) - 5' aac atg ctt cat cgt cgg 3'
3' reverse primer (cre-reverse) - 5' ttc gga tca tca gct aca cc 3'

PCR profile, program TIE1-CRE

95 °C, 10 min

94 °C, 30 s
63 °C, 30 s
72 °C, 30 s

10 cycles, one degree lower/cycle

95 °C, 30 s
53 °C, 30 s
72 °C, 30 s

34 cycles

72 °C, 10 min
4 °C, ∞

PCR mix

10 x PCR Gold buffer (Perkin Elmer)	3.0 µl
MgCl ₂ (25 mM)	2.0 µl
dNTPs (10 mM)	0.5 µl
MyHCa (20 µM)	0.5 µl
KCNE1 (20 µM)	0.5 µl
AmpliTaq Gold (5 U/µl)	0.2 µl
DNA template (~ 0.5 µg tail DNA)	1.0 µl
ddH ₂ O	<u>22.3 µl</u>
	30 µl

Post-PCR analysis

Load 10 µl of the PCR reaction on a 1% agarose gel.
Expected results; one band is given ~ 450 bp