

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	31838
MMRRC Strain Name	B6.129S2- <i>Pak1</i> ^{tm1^{Cher}} /Mmnc
Gene Name(s)	p21 protein (Cdc42/Rac)-activated kinase 1 (Pak1)
Breeding Protocol(s)	Intra-Strain Mating (-/+ x -/+) or backcross to C57BL/6J. -/- mice can be albino despite the C57BL/6J background
Protocol Date	11/25/13

MMRRC# 31838 PCR Reaction

Thermal Cycler:

94°C for 30 sec
 53°C for 30 sec
 72°C for 30 sec
 35x

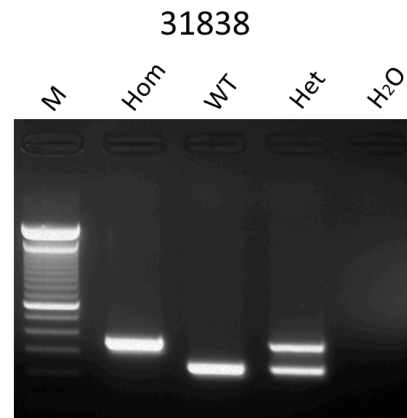
Taq: **Apex and Chromataq 5X Buffer**

Bands: MUTANT: 360bp
 WT: 240bp

	<u>1X</u>
DNA	2.0
5X Buffer	5.0
10mM dNTPs	0.5
30 uM Primer 1,2,3	1.5
Taq	1.0
ddH ₂ O	13.5
25mM MgCl ₂	1.5

Primer sequences 5' to 3': Primers are 10uM with respect to each primer (30uM total).
 (Common-F) Pak1JC891: GCC CTT CAC AGG AGC TTA ATG A
 (WT-R) Pak1JC 892: GAA AGG ACT GAA TCT AAT AGC
 (NEO-R) Pak1JC 893: CAT TTG TCA CGT CCT GCA CGA

Run on 2.0% agarose gel in TAE.



M: 100 bp DNA ladder (Invitrogen)