

MMRRC Strain ID	11663
MMRRC Strain Name	B6;129S5- <i>Shc1</i> ^{tm1Lex} /Mmnc
Gene Name(s)	Src homology 2 domain-containing transforming protein C1 (<i>Shc1</i>)
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	3/1/11

MMRRC# 11663 PCR Reaction

NOTE: Run 2 reactions for each sample: (1606-5' + GT-IRES for mutant) and (1606-12 + 1606-7 for wild-type).

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

Thermal Cycler:

- Step1: 94°C for 5 min
- Step 2: 94°C for 15 sec
- Step 3: 65°C for 30 sec, Decrease 1°C/cycle
- Step 4: 72°C for 40 sec
- Step 5: Repeat steps 2-4, 10 Cycles
- Step 6: 94°C for 15 sec
- Step 7: 55°C for 30 sec
- Step 8: 72°C for 40 sec
- Step 9: Repeat steps 6 to 8, 30 Cycles
- Step 10: 72°C for 7 min

Bands: MUTANT: 185bp

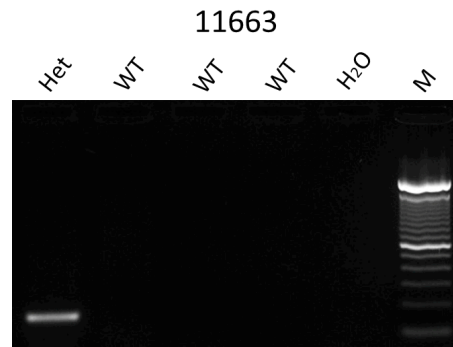
WT: 237bp

Primer sequences 5' to 3':

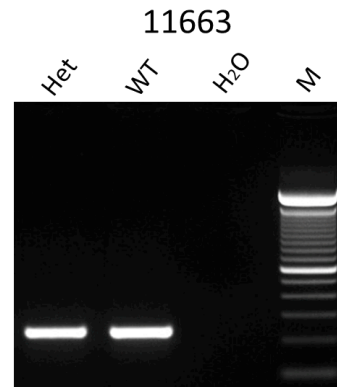
1606-5' 5': TGCCGAGGTCAGACTAGG
 GT-IRES ext 5': GCTAGACTAGTCTAGCTAGAGCGG
 1606-12 5': GGGATGAAGCTGATGGGGAAG
 1606-7 5': GGCTGCCGAGGTCAGACTAGG

Run on 2.0% agarose gel in TAE.

	1X
DNA	1.0
5X Buffer	5.0
10mM dNTPs	0.5
10 uM Primer F/R	1/1
Taq	0.5
ddH ₂ O	14.25
25mM MgCl ₂	1.75



Primers: 1606-5' + GT-IRES
 M: 1Kb plus DNA ladder (Invitrogen)



Primers: 1606-12 + 1606-7
 M: 1Kb plus DNA ladder (Invitrogen)