

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	36710
MMRRC Strain Name	B6;129S7- <i>Sohlh2</i> ^{tm1Rajk} /Mmnc
Gene Name(s)	spermatogenesis and oogenesis specific basic helix-loop-helix 2 (<i>Sohlh2</i>)
Breeding Protocol(s)	Sib-mating (heterozygous x heterozygous)
Protocol Date	6/12/13

MMRRC #36710 PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min

Step 2: 94°C for 30 sec

Step 3: 62°C for 30 sec

Step 4: 72°C for 30 sec

Step 2 to 4 Cycles: 30

Step 5: 72°C for 7 min

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

	<u>1X</u>
ddH ₂ O	12
5X Buffer	5.0
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
10uM Primer 3	1
Taq	0.5
DNA	2

Bands: MUTANT: 374bp

WT: 181bp

Primer sequences 5' to 3':

WT-L(36710): ACT TCA CCC TTG TCC TGC AT

WT-R(36710): GGG GAC CTG AAA TCA ATC CT

KO-R(36710): GCC AGA GGC CAC TTG TGT AG

Run on 2% agarose gel.