Vanderbilt Genome Editing Resource

GENOTYPING PROTOCOL: *SOX17^{em3Mgn}*

Investigator: Mark Magnuson, VICC and DRTC
Genome Edit: Sox17 CR2 -50 bp deletion
Allele Name: *Sox17^{em3}*Mgn

Primers:
Sox17CR2Fwd1: CTTGGACTTGTTCTTCAATCTTCC
Sox17CR2Rev2: CCAGAGGAACTCGTAAAGCTG

PCR products:
WT = 394 bp
Sox17 -50 bp allele = 344 bp

Components	50 ul reaction	Final concentration	PCR program*
5 x Phusion Reaction Buffer (NEB #M0530S)	10.0 µL	1X	98ºC, 30 seconds
10 mM dNTPs	1.0 µL	200 µM	98ºC, 10 seconds
10 µM Sox17CR2Fwd1	2.5 µL	0.5 µM	62ºC, 10 seconds
10 µM Sox17CR2Rev2	2.5 µL	0.5 µM	72ºC, 40 seconds
Phusion HF DNA Polymerase	0.5 µL	0.02 U/µl	Go to 2, 35 X
Nuclease-free water	32.5 µL		72ºC, 2 minutes
Genomic DNA	1.0 µL	Less than 1 µg, variable	4ºC, ∞