

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	36982
MMRRC Strain Name	STOCK <i>Arid2</i> ^{tm1a(EUCOMM)Wtsi} /OuluMmnc
Gene Name(s)	AT rich interactive domain 2 (ARID, RFX-like) (<i>Arid2</i>)
Breeding Protocol(s)	Sib-mating
Protocol Date	9/29/16

PCR Reaction

Thermal Cycler:

Step 1: 94°C for 5 min
 Step 2: 94°C for 30 sec
 Step 3: 55°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**

Bands: MUTANT: ~350bp
 WT: ~600bp

Primer sequences 5' to 3':

Arid2(36982)P1 TCGTGGTATCGTTATGCGCC
Arid2(36982)P2 TTTTCTTTTTGTGGGGAGGTG
Arid2(36982)P3 AGCTGACCAGGAAAAGTCTG

	1X
ddH ₂ O	13
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

Run on 2.0% agarose gel in TAE.

Gel labelling;

1. 100bp Marker
2. Empty Lane
3. Negative Control
4. Heterozygous Sample
5. Wild-type Control

