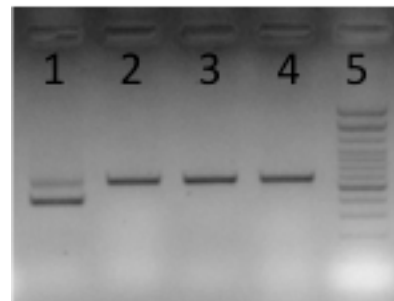


MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	41438
MMRRC Strain Name	C57BL/6-Tg(Col1a1-Dspp)#Cqi/Mmnc
Gene Name(s)	collagen, type I, alpha 1 [Rattus norvegicus (Norway rat)], dentin sialophosphoprotein
Breeding Protocol(s)	Backcross to C57BL/6J
Protocol Date	7/25/23

PCR Reaction

	<u>1X</u>
ddH ₂ O	12.5
5X Buffer	5
25mM MgCl ₂	2
10mM dNTPs	0.5
10uM Primer 1	1
10uM Primer 2	1
Taq	1
DNA	2



1. Heterozygous Sample
2. Wild-type Sample
3. Wild-type Sample
4. Wild-type Control
5. 100bp Ladder (Invitrogen)

Thermal Cycler:

Step 1: 94C, 5min
 Step 2: 94C, 45sec
 Step 3: 55C, 45sec
 Step 4: 72C, 60sec
 Step 2 to 4 Cycles: 30
 Step 5: 72C, 7min

Taq: Apex Taq

Bands: WT: 676bp MUTANT: 521bp

Primer sequences 5' to 3': Primers are 10uM with respect to each primer

Dspp(41438)P1: CCA GTT AGT ACC ACT GGA AAG AGA C

Dspp(41438)P2: TCA TGG TTG GTG CTA TTC TTG ATG C