

MMRRC UNC – Genotyping Protocol

MMRRC Strain ID	69518
MMRRC Strain Name	129S1.Cg- <i>Fbn1</i> ^{tm1.1tl} /RmzMmnc
Gene Name(s)	fibrillin 1
Breeding Protocol(s)	Backcross
Protocol Date	12/4/2024

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

Thermal Cycler:

Step 1: 94C, 5min

Step 2: 94C, 45sec

Step 3: 57C, 45sec

Step 4: 72C, 60sec

Step 2 to 4 Cycles: 30

Step 5: 72C, 7min

Taq: Apex Taq

Bands: WT: 731bp MUTANT: ~800bp

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

Fbnlox(69518)F	AGA AGA GGC GGC GGA GGA CAC GAT
Fbnlox(69518)R	TGC CAA GCC TTA GAC AGC CAA CCT