

Genotyping protocol

EMMA ID: EM:10855

Gene symbol: Mir210

Strain designation: C57BL/6-Mir210^{tm1.1Wtsi}/WtsiOulu

Primers:

Primer name	Primer sequence (5'- 3')
Primer 1	AGGTGAAATAGAAGGGTTACAAGGTT
Primer 2	AACCCTAATACACCTAAGAAGAAAGTTCC

Products:

Allele	Primer 1	Primer 2	Product size (bp)
Wild-type	Primer 1	Primer 2	527
Mutant	Primer 1	Primer 2	443

Reaction mix:

Component	Volume (µl)
Genomic DNA (~50-100 ng)	1.0
Primer 1 (10 µM)	1.0
Primer 2 (10 µM)	1.0
10x Buffer (15 mM MgCl ₂)	3.0
MgCl ₂ (25 mM)	1.0
dNTPs (25 mM)	0.25
DNA polymerase (5 U/µl)	0.1
H ₂ O	22.65
Total	30.0

PCR program:

Time	Temperature (+ °C)	Cycles
4 min	94	
1 min	94	30
1 min	56	
1 min	72	
10 min	72	
∞	4	