

Genotyping protocol

EMMA ID: EM:10574

Gene symbol: Wnt4

Strain designation: B6;129-Wnt4^{tm4Svo}/Oulu

Primers:

Primer name	Primer sequence (5'- 3')
5armF	ATT GAC GCG TGC GAG CTA CT
JDPL056	TTG GGG TAG GTG GTG GGA GA
ptpAR	GGT ACT CTG TTC TCA CCC TTC

Products:

Allele	Primer 1	Primer 2	Product size (bp)
Wild-type	5armF	JDPL056	~ 200
Mutant	5armF	ptpAR	300

Reaction mix:

Component	Volume (μl)
Genomic DNA (~50-100 ng)	2.0
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	21.65
Total	30.0

PCR program:

Time	Temperature (+ °C)	Cycles
5 min	95	
1 min	94	30
1 min	60	
1 min	72	
7 min	72	
∞	4	