

Genotyping protocol

EMMA ID: EM:10974

Gene symbol: Hspg2

Strain designation: STOCK Hspg2^{tm3.1Soin}/Oulu

Primers:

Primer name	Primer sequence (5'- 3')
EM10974 for	GCG GGC GAA TAT GAG TTC CAG TGC
EM10974 wt	GCC TTC AGG GTG CCA GTC TGA CTC CAC
EM10974 mut	ACC CAC ATG GCT GTA CAG CTC CCT ATA

Products:

Allele	Primer 1	Primer 2	Product size (bp)
Wild-type	EM10974 for	EM10974 wt	400
Mutant	EM10974 for	EM10974 mut	500

Reaction mix:

Component	Volume (µl)
Genomic DNA (~50-100 ng)	2.0
Primer 1 (10 µM)	1.5
Primer 2 (10 µM)	1.5
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	20.65
Total	30.0

PCR program:

Time	Temperature (+ °C)	Cycles
5 min	95	
1 min	94	35
30 sec	65	
45 sec	72	
10 min	72	
∞	10	