

Genotyping protocol

EMMA ID: EM:10893

Gene symbol: Hspg2

Strain designation: B6.129P2-Hspg2^{Gt(XST097)Byg}/Oulu

Primers:

Primer name	Primer sequence (5'- 3')
EM:10893 for	AGA GGG CCA GAG AGG CTC CATC
EM:10893 rev	GTG TGG CCA CAT CT GGG GCA CCA
EM:10893 Trap1Rev	GTG TTT TAA GTG TAC CCA CGG TCA C

Products:

Allele	Primer 1	Primer 2	Product size (bp)
Wild-type	EM:10893 for	EM:10893 rev	240
Mutant	EM:10893 for	EM:10893 Trap1Rev	650

Reaction mix:

Component	Volume (μl)
Genomic DNA (~50-100 ng)	2.0
Primer 1 (10 μM)	2.0
Primer 2 (10 μM)	2.0
10x Buffer (15 mM MgCl ₂)	3.0
MgCl ₂ (25 mM)	1.0
dNTPs (25 mM)	0.25
DNA polymerase (5 U/μl)	0.05
H ₂ O	19.7
Total	30.0

PCR program:

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