

Genotyping protocol

EMMA ID: EM:08326

Gene symbol: Lama4

Strain designation: B6.129-Lama4^{tm1Ktry}/Oulu

Primers:

Primer name	Primer sequence (5'- 3')
La1	CAC CAG GCA TCA CTG CAT CTC
La2	CTG AGT CGC TAG TCT CCG ATG
LaM1	TGT CAT CTC ACC TTG CTC CTG
LaM2	TCA AGA AGG CGA TAG AAG GCG

Products:

Allele	Primer 1	Primer 2	Product size (bp)
Wild-type	La1	La2	250
Mutant	LaM1	LaM2	490

Reaction mix:

Component	Volume (μl)
Genomic DNA (~50-100 ng)	2.0
Primer 1 (100 ng/μl)	1.0
Primer 2 (100 ng/μl)	1.0
10x Buffer (15 mM MgCl ₂)	3.0
dNTPs (25 mM)	0.25
DNA polymerase (5 U/μl)	0.05
H ₂ O	22.7
Total	30.0

PCR program:

Time	Temperature (+ °C)	Cycles
5 min	95	
30 sec	94	30
30 sec	55	
30 sec	72	
7 min	72	
∞	4	