

Genotyping protocol

EMMA ID: EM:08225

Gene symbol: Plod3

Strain designation: B6.Cg-Plod3^{tm2.1Rmyl}/Oulu

Primers:

Primer name	Primer sequence (5'- 3')
PLOD3-176	AACTAGCACAGCTGCTCTCCT
PLOD3-177	TCCCTCTTTTCCTTCCACTATC

Products:

Allele	Primer 1	Primer 2	Product size (bp)
Wild-type	PLOD3-176	PLOD3-177	108
Mutant	PLOD3-176	PLOD3-177	240

Reaction mix:

Component	Volume (µl)
Genomic DNA (~50-100 ng)	1.0
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	21.65
Total	30.0

PCR program:

Time	Temperature (+ °C)	Cycles
5 min	95	
40 sec	94	35
40 sec	65	
40 sec	72	
10 min	72	
∞	4	