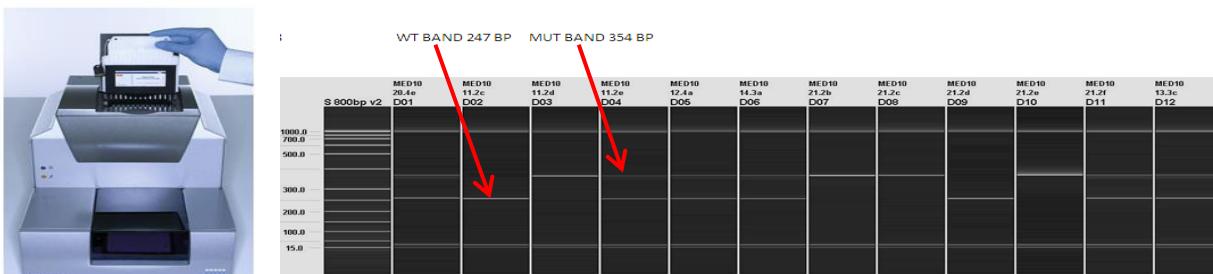


LMNB1 Genotyping Strategy

Introduction

The gel based assays are normally run on the Qiagen QIAxcel. This is a capillary based system that provides clearer resolution and is quicker than running standard agarose gels. Different size ladders maybe loaded onto runs depending on the fragment sizes being analysed. Typically samples are run with a 50-800bp size ladder.



PCR is performed using KAPA fast Taq polymerase, although alternatives may be used.

LMNB1 gel based primers

Lmnb1_39066_F	AACGGATCAACTCTGTCCAGC
Lmnb1_39066_R	ACATTCCCCACATCACATGC
CAS_R1_Term	TCGTGGTATCGTTATGCGGCC
LacZ_2_small_F	ATCACGACGCGCTGTATC
LacZ_2_small_R	ACATCGGGCAAATAATATCG

PCR mix – Multiplex Assay

KAPA Taq PCR master mix	5µl
Lmnb1_39066_F	0.5µl
Lmnb1_39066_R	0.5µl
CAS_R1_Term	0.5µl
H ₂ O	2.5µl
DNA	1µl

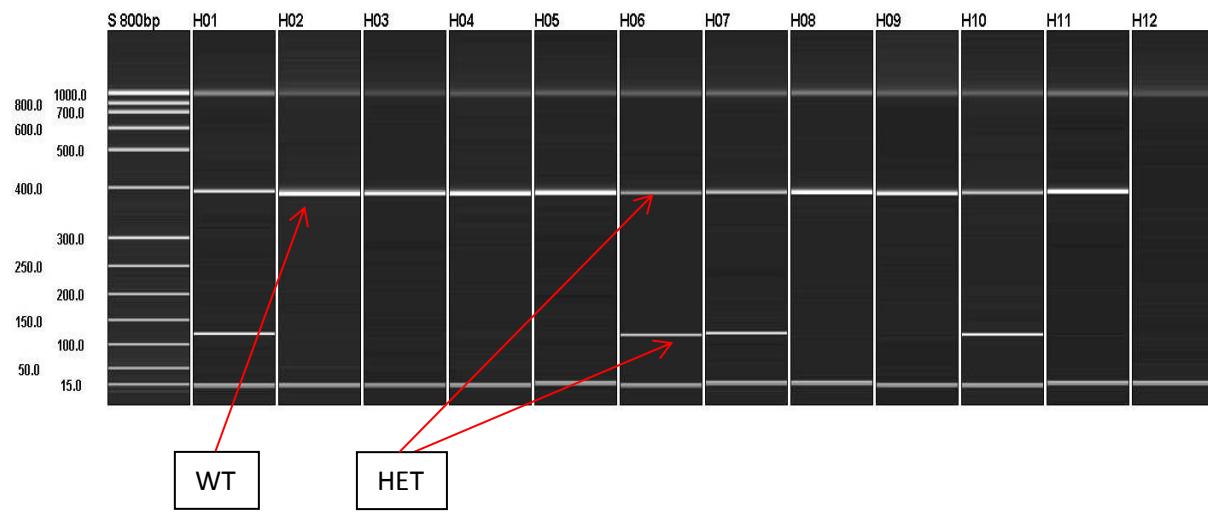
PCR mix – Lac Z Assay

KAPA Taq PCR master mix	5µl
LacZ_2_small_F	0.5µl
LacZ_2_small_R	0.5µl
H ₂ O	3 µl
DNA	1µl

Cycling conditions

60TM30FA

1. 95°C 1min.
2. 95°C 10sec.
3. **60°C** 10sec.
4. 72°C 1sec.
5. Go to 2 for 29 cycles
6. 72°C 30sec.
7. 16 °C forever
8. end

Example of Multiplex assayExample of LAC Z assay