Genotyping D1275N

Phire Animal Tissue Direct PCR Kit

Reaction Mix Using Dilution Method

2 x Phire Buffer 10.0 ul

F6789 Primer 10 uM 1.0 ul

R7183 Primer 10 uM 1.0 ul

Phire Polymerase 0.4 ul

DNA* 1.0 ul

Water <u>6.6 ul</u>

Total Volume 20.0 ul

Reaction mix can be set up at room temperature.

Use program Phire2

98°C – 5 minutes

98°C – 5 seconds

72°C - 20 seconds

Go back to step two 39 more times

72°C – 1 minute

10°C - Hold

Use special Finnzyme Tm calculator to find proper annealing temperature.

http://www.finnzymes.com/tm determination.html

Note: both primers had a Tm of about 71°C. Two step cycling is recommended for primers with Tm between 69°C and 72°C.

^{*}Protocol recommends adding DNA last.

Digestion with Taq alpha I

PCR purification is not necessary. Digest all of pcr product.

PCR product 20.0 ul

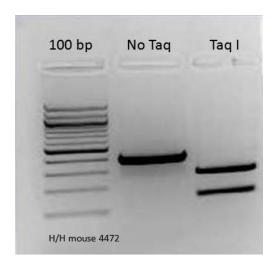
Cut Smart 4.0 ul

Taq I 1.0 ul

Water <u>15.0 ul</u>

Total Volume 40.0 ul

Incubate at 65°C for 15 minutes. Run on 2% agarose gel with 100 bp marker.



Primer sequence:

F6789 GAGGAGCGGAAGACCATCAAGGTT

R7183 CCAAACTTCCCCGCAAAGAGGT