

## 1. Bioneer AccuPower 20µl reaction premix:

WHAT YOU NEED
AccuPower PCR premix tubes (dried in tube)
Primers
Molecular Biology grade water

1. Add template DNA 5 - 10 ng and primers 5 - 10 pmole to AccuPower PCR tube<sup>1</sup>.
2. Add molecular biology water (supplied) to AccuPower PCR tubes to a total volume of 20 µl
3. Dissolve the lyophilised blue pellet by vortexing and briefly spin down.
4. Add mineral oil. (This step is unnecessary when using a thermal cycler with top heating).
5. Perform PCR of samples.
6. Load samples on an agarose gel without adding a loading-dye mixture and perform electrophoresis.

### Notes:

<sup>1</sup>Composition of 20µl lyophilised premix:

DNA Polymerase 1U; Each dNTP (dATP, dCTP, dGTP, dTTP) 250 µM;

Tris-HCl (pH 9.0) 10 mM; KCl 30 mM; MgCl<sub>2</sub> 1.5 mM; Stabiliser and tracking dye

## 2. Thermal cycler:

ITEMS SUPPLIED
Bio-Rad MyCycler
Gradient upgrade software



PCR Protocols including Touchdown PCR are found in the MyCycler Instruction Manual CD provided.

A pdf version of the Instruction Manual can be found on the Trust website [www.kirkhoustrust.org](http://www.kirkhoustrust.org) and go to 'Resources'.