**PCR conditions**

94 °C, 1min

94 °C, 1min

59 °C, 1min

72 °C, 2min

72 °C, 1min

40 cycles

Reaction tube: Thin-wall PCR tube (Bio-Rad Laboratories)

Thermal cycler: **miniPCR** and **iCycler** (Bio-Rad Laboratories)

**Electrophoretic conditions**

Voltage and time: 100V for 30 min

Running buffer: 0.5xTAE

Gel: 4% agarose (Nusieve 3:1)

The gel was stained with EtBr.

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**Typical electrophoretic profiles of PCR-amplified DNA fragments**

PCR-amplified DNA fragments: 130bp (A), 200bp (B), and 400bp (C)

1: Genomic DNA from human cheek cells (about 100ng DNA/PCR tube)

2, 3: Genomic DNA from plant cells (about 100ng DNA/PCR tube)
Effect of annealing temperature
1: 54 °C, 2: 59 °C
Template DNA: about 5ng DNA/PCR tube

Electrophoretic profile of various PCR-amplified DNA fragments.
Lanes 1 and 3 are 200bp (B), lanes 2 and 4 are 400bp (C) and lanes 5 and 6 are 130bp (A).
1-4: Genomic DNA from plant cells
[Amounts of template DNA: 1, 2; about 100ng DNA/PCR tube, 3, 4; about 5ng DNA/PCR tube]
5, 6: Genomic DNA from human cheek cells (about 5ng DNA/tube)