An anonymous DNA segment (p ϕ 11) located to chromosome 21 identifies a PvuII polymorphism (D21S74)

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Source/Description: The probe was isolated from a Charon 21A bacteriophage human chromosome 20 specific library (1), and subcloned as a HindIII fragment into pUC19.

Polymorphism: PvuII detects a two allele polymorphism with bands at 3.0 kb and 1.5 kb, and no invariant bands.

Frequency: 3.0 kb allele 0.80; 1.5 kb allele 0.20: based on 82 chromosomes.

Not Polymorphic For: MspI, RsaI, BamHI, BglII, EcoRI, TaqI, PstI, DraI, StuI.

Chromosomal Localisation: Using a somatic cell hybrid panel (2), the probe was localised to chromosome 21.

Mendelian Inheritance: Mendelian inheritance has been demonstrated in two large MEN 2A (Multiple Endocrine Neoplasia) Caucasian family.

Probe Availability: Freely available.

References: 1) van Dilla, M.A. *et al.* (1986) *Biotechnology* **4**, 537–552. 2) Sacchi, N. *et al.* (1986) *Science* **231**, 379–382.

An anonymous DNA segment (p ϕ 91) located to chromosome 18 identifies an MspI polymorphism (D18S9)

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Source/Description: The probe was isolated from a Charon 21A bacteriophage human chromosome 20 specific library (1), and subcloned as a HindIII fragment into pUC19.

Polymorphism: MspI detects a two allele polymorphism with bands at 6.6 kb and 4.4 kb and an invariant band at 5.0 kb.

Frequency: MspI 6.6 kb allele 0.25; 4.4 kb allele 0.75: based on 24 chromosomes.

Not Polymorphic For: PvuII, RsaI, BamHI, EcoRI, TaqI, PstI, StuI.

Chromosomal Localisation: Using a somatic cell hybrid panel (2), the probe was localised to chromosome 18.

Mendelian Inheritance: Mendelian inheritance has been demonstrated in one large MEN 2A (Multiple Endocrine Neoplasia) Caucasian family.

Probe Availability: Freely available.

References: 1) van Dilla, M.A. *et al.* (1986) *Biotechnology* **4**, 537–552. 2) Sacchi, N. *et al.* (1986) *Science* **231**, 379–382.

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