The anonymous DNA probe p7-26 identifying the locus [D7S17], reveals an XmnI polymorphism

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SOURCE/DESCRIPTION: A 4.5kb single copy EcoRI fragment from the bacteriophage 7-26 was subcloned into pBR322. The bacteriophage was isolated from a chromosome 7 specific library constructed in Charon 21A.

POLYMORPHISM: XmnI (GAANN/NN TTC) identifies a two allele polymorphism with bands of 2.5kb (A) and 2.0kb (B). Three constant bands of 1.7, 1.3 and 0.6kb are observed.

FREQUENCY: Estimated from 121 unrelated Caucasians
A: 0.62
B: 0.38

NOT POLYMORPHIC FOR: BamHI, BanII, BclI, BglI, BglII, DraI, EcoRI, EcoRV, HindIII, MspI, PstI, PvuII, RsaI, StuI, SstI, TaqI, XbaI on a panel of six unrelated Caucasians.

CHROMOSOMAL LOCALISATION: This probe has been assigned to the distal region of chromosome 7p by two point linkage analysis (1) with three loci (D7S89, D7S83, D7S85) previously shown to span this region (2).

MENDELIAN INHERITANCE: Co-dominant segregation has been demonstrated in seventeen families.

PROBE AVAILABILITY: Available upon request.

REFERENCES:

1. G.M. Lathrop et al., Am. J. Hum. Genet. 37:482-498 (1985)
2. D. Barker et al., Proc. Natl. Acad. Sci. U.S.A. 84:8006-8010 (1987)

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