Isolation and mapping of a polymorphic DNA sequence (pCMM17.4) on chromosome 10 [D10S23]

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SOURCE/DESCRIPTION: A 2.2 kb MspI fragment from cosmid CMM17 was subcloned into the AccI site of pUC18.

POLYMORPHISM: PvuII identifies a two allele polymorphism (P1 : 4.3 kb, P2 : 3.2 kb) with a constant band at 2.3 kb.

FREQUENCY: Estimated from 108 unrelated Caucasians.
P1 : 0.81
P2 : 0.19

NOT POLYMORPHIC FOR: TaqI, RsaI, PstI, BglII and MspI

CHROMOSOMAL LOCALIZATION: pCMM17.4 has been assigned to chromosome 10 by multipoint linkage analysis(1) with loci (D10S1, D10S4, IRBP) known to span this region(2,3,4,5).

MENDELIAN INHERITANCE: Co-dominant segregation of the PvuII RFLP was observed in 54 three generation families.

PROBE AVAILABILITY: Contact Y.N.

OTHER COMMENTS: RFLPs were observed under normal hybridization and wash stringencies.

REFERENCES:

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