Isolation and mapping of a polymorphic DNA sequence (pTB10.171) on chromosome 10 [D10S19]

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SOURCE/DESCRIPTION: A 1.9 kb EcoRI fragment from phage TB10.171 was subcloned into the EcoRI site of pUC18.

POLYMORPHISM: PvuII identifies a two allele polymorphism (P1 : 8.0 kb, P2 : 6.5 kb) without a constant band.

FREQUENCY: Estimated from 109 unrelated Caucasians.

P1 : 0.65

P2 : 0.35

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

CHROMOSOMAL LOCALIZATION: pTB10.171 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 55 three generation families.

PROBE AVAILABILITY: Contact Y.N.

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

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