Isolation and mapping of a polymorphic DNA sequence pHBI18P2 on chromosome 11 [D11S147]

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SOURCE/DESCRIPTION: A 4.0 kb PstI fragment from cosmid HBI18P2 was subcloned into the PstI site of pUC18.

POLYMORPHISM: PstI identifies a 2 allele polymorphism (P1 : 5.0 kb, P2 : 4.0 kb).

FREQUENCY: Estimated from 103 unrelated Caucasians.

PstI P1 : 0.25
 P2 : 0.75

NOT POLYMORPHIC FOR: PvuII, BamHI, BglII, EcoRI, HindIII, MspI, RsaI and TaqI

CHROMOSOMAL LOCALIZATION: pHBI18P2 has been assigned to chromosome 11q by multipoint linkage analysis (1) with loci (PGA, APOA1, D11S29) known to span this region (2,3).

MENDELIAN INHERITANCE: Co-dominant segregation of the PvuII RFLP has been observed in 50 three generation families.

PROBE AVAILABILITY: Contact Y.N.

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

REFERENCES:

1. G.M. Lathrop et al., Am. J. Hum. Genet. 37:482-498 (1985)
2. K.-H. Grzeschik and H.H. Kazazian, Cytogenet. Cell Genet. 40:179-205 (1985)
3. M. Leppert et al., abstract submitted to the Human Gene Mapping Workshop 9