Isolation and mapping of a polymorphic DNA sequence (pHHH163) on chromosome 18 [D18S21]

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SOURCE/DESCRIPTION: A 3.2 kb EcoRI fragment from cosmid HHH163 was subcloned into the EcoRI site of pUC18.

POLYMORPHISM: PvuII identifies a two allele polymorphism with a band at 4.7 kb (P1) or 2.8 kb (P2) without a constant band.

FREQUENCY: Estimated from 97 unrelated Caucasians.

PvuII P1 : 0.45
 P2 : 0.55

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

CHROMOSOMAL LOCALIZATION: pHHH163 has been assigned to chromosome 18 by multipoint linkage analysis(1) with loci (D18S1, D18S3) known to span this region(2,3).

MENDELIAN INHERITANCE: Co-dominant segregation of the PvuII RFLP was observed in 49 three generation families.

PROBE AVAILABILITY: Contact Y.N.

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

REFERENCES:

1. G.M. Lathrop et al., Am. J. Hum. Genet. 37:482-498 (1985)
2. S. Naylor et al., Cytogenet. Cell Genet. 40:242-267 (1985)
3. P. O'Connell et al., abstract submitted to Human Gene Mapping Workshop 9. Cytogenet. Cell Genet., in press