Isolation and mapping of a polymorphic DNA sequence MCT128.1 on chromosome 11 [D11S285]

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SOURCE/DESCRIPTION: A 4.0 kb TaqI fragment from cosmid MCT128 was subcloned into the AccI site of pUC18.

POLYMORPHISM: MspI identifies a two allele polymorphism (M1 : ' 2.9 kb, M2 : 2.6 kb).

FREQUENCY: Estimated from 92 unrelated Caucasians.
 MspI M1 : 0.52
 M2 : 0.48

NOT POLYMORPHIC FOR: BglII, PvuII and TaqI

CHROMOSOMAL LOCALIZATION: pMCT128.1 has been assigned to chromosome 11q by multipoint linkage analysis (1) with loci (PGA, APOA1) known to span this region (2,3).

MENDELIAN INHERITANCE: Co-dominant segregation of the MspI RFLP has been observed in 46 three generation families.

PROBE AVAILABILITY: Contact Y.N.

OTHER COMMENTS: This probe was pre-associated with excess human DNA prior to hybridization. Otherwise, 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