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Isolation and mapping of a polymorphic DNA sequence pMCT112 on chromosome 9q (D9S15)

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SOURCE/DESCRIPTION: A 3.6 kb MspI fragment from cosmid MCT112 was subcloned into the AccI site of pUC18.

POLYMORPHISM: MspI identifies a 2 allele polymorphism (M1 : 6.0 kb, M2 : 4.9 kb).

FREQUENCY: Estimated from 115 unrelated Caucasians.

MspI	M1	: 0.71
	M2	: 0.29

NOT POLYMORPHIC FOR: BglII, PstI, PvuII, RsaI and TaqI.

CHROMOSOMAL LOCALIZATION: pMCT112 has been assigned to proximal chromosome 9q by multipoint linkage analysis(1) with loci (ABO, D9S1, ASSP3) known to span this region(2,3).

MENDELIAN INHERITANCE: Co-dominant segregation of the MspI RFLP was observed in 58 three generation families.

PROBE AVAILABILITY: Contact Y.N.

OTHER COMMENTS: The probe was pre-associated with excess human DNA prior to hybridization. Otherwise, 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. M. Smith and A. Spence, Cytogenet. Cell Genet. 40:156-178 (1985)
3. G.M. Lathrop et al., abstract sumbitted to the Human Gene Mapping Workshop 9