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**Isolation and mapping of a polymorphic DNA sequence (pCMM8.1) on chromosome 1p [D1S63]**

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**SOURCE/DESCRIPTION:** A 14.5 kb PstI fragment from the cosmid cCMM8 was subcloned into the PstI site of pUC18.

**POLYMORPHISM:** MspI identifies a 2 allele polymorphism (M1 : 1.6 Kb, M2 : 1.0 + 0.6kb) with constant bands at 5.5 kb, 1.4 kb, 1.0 kb, 0.9 and 0.4 kb.

**FREQUENCY:** Estimated from 97 unrelated Caucasians.  
MspI            M1 : 0.74  
                  M2 : 0.26

**NOT POLYMORPHIC FOR:** BamHI, BglII, EcoRI, HindIII, PstI, PvuII, RsaI and TaqI.

**CHROMOSOMAL LOCALIZATION:** pCMM8.1 has been assigned to chromosome 1p by multipoint linkage analysis (1) with loci (FY, NRAS, NGFB, RH) known to span this region (2).

**MENDELIAN INHERITANCE:** Co-dominant segregation of this polymorphism was observed in 49 three generation families.

**PROBE AVAILABILITY:** Freely available (contact Y.N.) or will be available from ATCC.

**OTHER COMMENTS:** RFLPs were observed after competitive hybridization with total human DNA.

**REFERENCES:**

1. G.M. Lathrop et al., Am. J. Hum. Genet. **37**:482-498 (1985)
2. P. O'Connell et al., Cytogenet. Cell Genet. **46**:672 (1988)