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**Isolation and mapping of a polymorphic DNA sequence pYNZ86.1 on chromosome 3 (D3S30)**

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**SOURCE/DESCRIPTION:** A 3.3 kb HindIII fragment from cosmid YNZ86 was subcloned into the HindIII site of pUC18.

**POLYMORPHISM:** MspI identifies a two allele polymorphism (M1 : 2.0 kb, M2 : 1.9 kb) with constant bands at 2.6 and 1.7 kb. PvuII also identifies a two allele polymorphism (P1 : 1.1 kb, P2 : 0.8 kb) with a constant band at 1.5 kb, but this observation has not been verified by pedigree studies.

**FREQUENCY:** Estimated from 80 unrelated Caucasians.

M1 : 0.51

M2 : 0.49

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

**CHROMOSOMAL LOCALIZATION:** pYNZ86.1 has been assigned to chromosome 3 by multipoint linkage analysis(1) with loci (DNF15S2, D3S4) known to span this region(2,3).

**MENDELIAN INHERITANCE:** Co-dominant segregation of the MspI RFLP was observed in 40 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. K.K. Kidd and J. Gusella, Cytogenet. Cell Genet. 40:107-127 (1985)
3. M. Leppert et al., abstract submitted to Human Gene Mapping Workshop 9. Cytogenet. Cell Genet., in press