Isolation and mapping of a polymorphic DNA sequence pYNM17 on chromosome 9q (D9S6)

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SOURCE/DESCRIPTION: A 2.0 kb PstI fragment from cosmid YNM17 was subcloned into the PstI site of pBR322.

POLYMORPHISM: TaqI identifies a 2 allele polymorphism (T1 : 7.5 kb, T2 : 5.0 kb).

FREQUENCY: Estimated from 85 unrelated Caucasians.
  TaqI     T1 : 0.62
            T2 : 0.38

NOT POLYMORPHIC FOR: BamHI, BgIII, EcoRI, HindIII, MspI, PstI, PvuII and Rsal.

CHROMOSOMAL LOCALIZATION: pYNM17 has been assigned to chromosome 9q by multipoint linkage analysis(1) with loci (ABO, AK1, ABL, ASSP3) known to span this region(2,3).

MENDELIAN INHERITANCE: Co-dominant segregation was observed in 43 three generation families.

PROBE AVAILABILITY: Contact Y.N.

OTHER COMMENTS: This probe has significant lane background. However, 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.