Isolation and mapping of a polymorphic DNA sequence (pYNH3) on chromosome X [DXS287]

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SOURCE/DESCRIPTION: A 2.8 kb *RsaI* fragment from the cosmid YNH3 was subcloned into the *HincII* site of pUC18.

POLYMORPHISM: *RsaI* identifies a 2 allele polymorphism (R1 : 3.2 kb, R2 : 2.8 kb).

FREQUENCY: Estimated from 107 unrelated Caucasians.

<i>RsaI</i>	R1 : 0.38
	R2 : 0.62

NOT POLYMORPHIC FOR: *MspI*, *TaqI*, *BglIII*, *PstI*, *PvuII*, *BamHI*, *HindIII* and *EcoRI*

CHROMOSOMAL LOCALIZATION: This probe is assigned to a long arm of chromosome X by multipoint linkage analysis (1) with loci (DXS17,DXS11,DXYS1) known to span this region (2).

MENDELIAN INHERITANCE: Co-dominant segregation has been observed in 54 three generation families.

PROBE AVAILABILITY: Contact Y.N..

OTHER COMMENTS: RFLPs were observed under normal conditions of hybridization and washing.

REFERENCES:

1. G.M. Lathrop et al., Am. J. Hum. Genet. 37:482-498 (1985)
2. L.D. Keppen et al., Am. J. Hum. Genet. in press