Isolation and mapping of a polymorphic DNA sequence (pEFD52.1) on chromosome 15 [D15S44]

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SOURCE/DESCRIPTION: A 2.3 kb TaqI fragment from cosmid EFD52 was subcloned into the AccI site of pUC18.

POLYMORPHISM: MspI identifies a three allele polymorphism (M1 : 2.1 kb, M2 : 1.4 + 0.7 kb) without a constant band.

FREQUENCY: Estimated from 107 unrelated Caucasians.

MspI	M1 : 0.74
	M2 : 0.26

NOT POLYMORPHIC FOR: TaqI, RsaI

CHROMOSOMAL LOCALIZATION: pEFD52.1 has been assigned to chromosome 15q by multipoint linkage analysis(1) with loci (D15S1, D15S2, D15S3) known to span this region(2).

MENDELIAN INHERITANCE: Co-dominant segregation of the MspI RFLP was observed in 54 three generation families.

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

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

REFERENCES:

1. G.M. Lathrop et al., Am. J. Hum. Genet. 37:482-498 (1985)
2. P. O'Connell et al., Cytogenet. Cell Genet. 46:673 (1988)