Isolation and mapping of a polymorphic DNA sequence pMCT46.2 on chromosome 15 [D15S26]

M. Carlson, Y. Nakamura, K. Krapcho, J. Gill, P. O'Connell, M. Leppert, G. M. Lathrop, J.-M. Lalouel and R. White

The Howard Hughes Medical Institute, University of Utah Medical School, Salt Lake City, UT 84132, USA

SOURCE/DESCRIPTION: A 5.3 kb BamHI fragment from cosmid MCT46 was subcloned into the BamHI site of pUC18.

POLYMORPHISM: PvuII identifies a two allele polymorphism (P1 : 5.9 kb, P2 : 5.3 kb).

FREQUENCY: Estimated from 98 unrelated Caucasians.

PvuII	P1 : 0.87
	P2 : 0.13

NOT POLYMORPHIC FOR: MspI, TaqI, RsaI, BglII and PstI

CHROMOSOMAL LOCALIZATION: pMCT46.2 has been assigned to chromosome 15q by multipoint linkage analysis(1) with loci (D15S1, D15S2, D15S3) known to span this region(2,3).

MENDELIAN INHERITANCE: Co-dominant segregation of the PvuII RFLP was observed in 49 three generation families.

PROBE AVAILABILITY: Contact Y.N.

OTHER COMMENTS: This probe was pre-associated with excess human DNA prior to hybridization. Otherwise, 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. D.R. Cox and T. Gedde-Dahl, Cytogenet. Cell Genet. 40:206-242 (1985)
3. P. O'Connell et al., abstract submitted to Human Gene Mapping Workshop 9. Cytogenet. Cell Genet., in press