

YM40 (D2S75) is a polymorphic DNA sequence on chromosome 2

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Source/Description: YM40 (D2S75) is a 3.7 Kb single copy *EcoRI* fragment isolated from a Charon 21A human chromosome 2 library (1).

Polymorphism: *PstI* detects a two allele system.

A1: 5.4 Kb and 3.8 Kb.

A2: 9.3 Kb

Frequency: Estimated from 23 unrelated Caucasians.

A1: 0.89

A2: 0.11

Not Polymorphic For: *BamHI*, *BglII*, *EcoRI*, *HindIII*, *RsaI*.

Chromosomal Localisation: The probe was assigned to chromosome 2 using a panel of somatic cell hybrids (2).

Mendelian Inheritance: Co-dominant segregation of the alleles has been observed in 5 families.

Probe Availability: Available for collaboration. Contact P. Boyd.

Acknowledgement: This work was supported by the Wellcome Trust.

References: 1) American Type Culture Collection No. 57716. 2) Horton, Y.M. and Boyd, P.A. Manuscript in preparation.

MspI restriction fragment length polymorphism near exon 10 of cystic fibrosis (CFTR) gene

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Source/Description: The probe used is a 98 bp fragment amplified by PCR from a cDNA clone of the CFTR gene or from genomic DNA corresponding to exon 10, using two primers from this exon (1).

Polymorphism: *MspI* identifies a two allele polymorphism within the intron region surrounding exon 10 of the CFTR gene. Southern blot analysis produces bands of 16.5 and 6.6 kb (Figure 1).

Frequency: Allele frequencies as estimated from the analysis of 103 normal and 97 CF, unrelated Spanish chromosomes, are

	N	CF
C1	0.67	0.82
C2	0.33	0.18

Not Polymorphic For: *PstI*, *PvuII*, *SrfI*, *TaqI*.

Chromosomal Localization: CFTR gene has been assigned to the 7q31 region.

Mendelian Inheritance: Co-dominant segregation was demonstrated in 50 families.

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Reference: 1) Riordan, J.R. *et al.* (1989) *Science* **245**, 1066–1072.

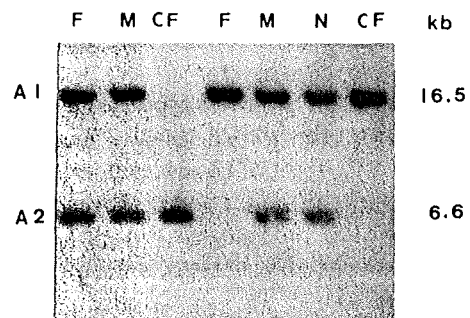


Figure 1. F: father; M: mother; N: non-CF; CF: cystic fibrosis.

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