A common MspI RFLP of the human fibronectin gene (FN1)

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SOURCE AND DESCRIPTION. The probe used, pFH154, contains a sequence of 2.5 kb of the fibronectin cDNA inserted in pAT153/Pvu/8 plasmid vector (Kornblihtt, A.R. et al.). The recombinant plasmid and the HindIII/BamHI purified cDNA insert give identical patterns.

POLYMORPHISM. MspI (C/CGG) (Promega Biotec) detects invariant bands at 8.5, 4.2, 2.5, 2.1, 1.55, 1.4, 1.1 and 0.75 kb in addition to a simple two allele polymorphism with a band at either 0.35 kb (F1) or 2.7 kb (F2) (Figure 1).

FREQUENCY. Studied 74 normal unrelated Caucasians.
0.35 kb allele (F1) 0.75
2.7 kb allele (F2) 0.25

NOT POLYMORPHIC FOR. HindIII, EcoRI, PstI. Polymorphic for HaeIII (Colombi, M. et al.).

CHROMOSOMAL LOCALIZATION. 2 q34-36 (Jhanwar, S.C. et al.).
MENDELIAN INHERITANCE. Co-dominant segregation demonstrated in 6 families one of which is shown in Figure 2.

PROBE AVAILABILITY: Contact Prof. F.E. Baralle, Istituto Sieroterapico Milanese "S. Belfanti", Via Darwin 22, 20143 Milano, Italy.

REFERENCE. 1) Kornblihtt A.R.; Vibe-Pedersen K., Baralle F.E. (1984) Nucl. Acids Res. 12: 5853; 2) Colombi M.; Gardella R.; Barlati S., Vaheri A. (1987) Nucl. Acids Res. 15: 6761; 3) Jhanwar S.C.; Jensen J.T.; Kaelbling M.; Chaganti R.S., Klinger H.P. (1986) Cytogenet. Cell. Genet. 1: 47-53.

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