

A frequent HaeIII RFLP of the human fibronectin gene

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SOURCE AND DESCRIPTION OF CLONE: 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:** HaeIII (GG/CC)(Amersham International pLc.U.K.) detects invariant bands at 1.9,1.7,1.6,1.35,1.2,1.0,0.725,0.564 and 0.525 Kb in addition to a simple two-allele polymorphism with a band at either 1.5 Kb (F1) or 2.0 kb (F2) (Figure 1).

FREQUENCY: Studied 31 normal unrelated Caucasians.

HaeIII F1 allele 0.39
F2 allele 0.61

NOT POLYMORPHIC FOR: HindIII, EcoRI, PstI.

CHROMOSOMAL LOCALIZATION: 2q34-36 (Jhanwar, S.C. et al.).

MENDELIAN INHERITANCE: Co-dominant segregation demonstrated in 4 families 2 of which are shown in Figure 2.

OTHER COMMENTS: to obtain better separation of bands electrophoresis on a 1.1% agarose gel.

REFERENCE: 1) Kornblihtt, A.R.; Vibe-Pedersen, K. and Baralle, F.E. (1984) Nucl. Acids Res. 12:5853-5868.; 2) Jhanwar, S.C.; Jensen, J.T.; Kaelbling, M.; Chaganti, R. S. and Klinger, H.P. (1986) Cytogenet. Cell. Genet. 41:47-53.

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