RFLP for the human apolipoprotein B gene: II;EcoRI

L.Priestley, T.Knott, S.Wallis, L.Powell, R.Pease and J.Scott

Molecular Medicine Research Group, MRC Clinical Research Centre, Watford Road, Harrow, Middlesex HA1 3UJ, UK

SOURCE AND DESCRIPTION OF CLONE: 5.07 kb cDNA isolated from an adult human liver cDNA library made from size fractionated (>28S) mRNA (Belt et al, 1984). The clone spans the entire T2 thrombin peptide coding sequence of apo B and 270 bp of 3' untranslated region (Knott et al, 1985).

POLYMORPHISM: EcoRI digestion yields two invariant bands of 1.7 kb and 1.2kb and reveals a 2 allele polymorphism consisting of either a band at 14 kb or 2 bands of 12 kb and 2.1 kb.

FREQUENCY: Among 20 white Europeans,
14 kb allele 0.2
12/2.1 kb allele 0.8

NOT POLYMORPHIC FOR: AvaII, BglII, Hind III, HinfI, KpnI and SstI with DNA from 10 unrelated individuals.

CHROMOSOMAL LOCALISATION: The probe has been localised to 2p24 by in situ hybridisation (Knott et al, 1985).

MENDELIAN INHERITANCE: Co-dominant segregation demonstrated in one family of 13 individuals.

PROBE AVAILABILITY: Requests for probe to J.S. at the above address.

REFERENCES: Belt KT, Carroll MC, Porter RR (1984) Cell 36 907.
Knott TJ et al (1985) Science (in press).