RFLP for the human apolipoprotein B gene: III;EcoRV

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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: EcoRV produces two invariant bands of 20 kb and 3.2 kb and detects a 2 allele polymorphism with additional bands at either 3.8 kb or 3.7 kb.

FREQUENCY: Among 20 white Europeans,
3.8 kb allele 0.2
3.7 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.

OTHER COMMENTS: Marked linkage disequilibrium between the EcoRI, BamHI, MspI and EcoRV RFLPs, but not with the XbaI RFLP.

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