Pvu II RFLP in the 5' of the human apolipoprotein B gene

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SOURCE/DESCRIPTION: 1 kb fragment from the 5' end of human apo B cDNA.

This fragment has been isolated from a human liver cDNA library and is subcloned into pBR 322 (1).

POLYMORPHISM: Pvu II (CAGCTG) (International Biotechnologies, Inc.) identifies one invariant band at 2.5 kb and a single two-allele polymorphism with a band at either 5.5 kb or 7.9 kb.

FREQUENCY: Studied in 250 unrelated European Caucasians

5.5 kb allele 0.07

7.9 kb allele 0.93

NOT POLYMORPHIC FOR: Ava II, Ban II, Bcl I, Bgl II, Dra I, Eco RI, Eco RV, HgiA I, Hind III, Hinf I, Hpa I, Hph I, Nci I, Nco I, Nsi I, Pst I, Rsa I, Sac I, Sal I, Sau96 I, Stu I, Sty I, Taq I & Xmn I.

CHROMOSOMAL LOCALISATION: Human apo B gene localized on the short arm of chromosome 2 by filter by hybridization of human-mouse somatic cell hybrids (2).

MENDELIAN INHERITANCE: Co-dominant segregation observed in 3 Caucasian families (18 individuals).

PROBE AVAILABILITY: Requests for probe to A.A.P. at the above address.

OTHER COMMENTS: Low back-ground at usual stringency (1 X SSC).

REFERENCES: 1. Protter, A.A., *et al.*, PNAS (in press); 2. Law, S.W. *et al.*, Biochem. Biophys. Res. Commun. **131** (1985) 1003-1012.

ACKNOWLEDGEMENTS: This work was supported by Biotechnology Research Partners, Ltd.