RFLP for the human lipoprotein lipase (LPL) gene: HindIII

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SOURCE AND DESCRIPTION OF CLONE: Two overlapping cDNA clones (LPL35 and LPL37) isolated from an adult human adipose cDNA library. The clones span the entire coding sequence of lipoprotein lipase with the exception of 450 bp at the 3' end of the gene (Wion et al, 1987).

POLYMORPHISMS: HindIII digestion gives one invariant band of 4.5 kb and a two allele polymorphisms with bands of 17.5 kb or 8.7 kb (Figure).

FREQUENCIES: HindIII (among 131 Americans)
8.7 kb allele: 0.67
17.5 kb allele: 0.33

NOT POLYMORPHIC FOR: EcoRI, HaeIII, PvuII (from 10 unrelated individuals), DraI, TaqI, RsaI (from 18 individuals), SstI (from 16 individuals), PstI (from 11 individuals).

CHROMOSOMAL LOCALIZATION: The probe has been assigned to 8p22 by analysis of somatic cell hybrids and in situ hybridization (Sparkes et al., manuscript in preparation).

MENDELIAN INHERITANCE: Segregation was demonstrated in one family of 14 individuals.

PROBE AVAILABILITY: Requests for probe to M. Schotz at the above address.

REFERENCES: Wion, K.L. et al (1987) Science 235, 1638-1641. Sparkes, R.S. et al., manuscript in preparation.

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