Two RFLPs at the lipoprotein lipase (LPL) gene

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SOURCE/DESCRIPTION: Five genomic cosmids, designated RHL2A, RHL2B, RHL5A, RHL5B, and RHL5C together span a DNA region of approximately 70 kb in length in the vicinity of the lipoprotein lipase (LPL) gene.

POLYMORPHISMS: Using the entire cosmid RHL2B as a probe, PstI reveals a two-allele polymorphism (P1: 3.4 kb, P2: 3.3 kb, several constant bands). Using the entire cosmid RHL5B as a probe, TaqI reveals a two-allele polymorphism (T1: 4.2 kb, T1 4.0 kb, several constant bands)

FREQUENCIES: Estimated from 12 unrelated Caucasians: P1: 0.87; B2: 0.13. Estimated from 26 unrelated Caucasians: T1: 0.62; T2: 0.38.

NOT POLYMORPHIC FOR: (6 unrelated individuals) BglII, PvuII, EcoRI, BamHI, HindIII, MspI, RsaI.

CHROMOSOMAL LOCALIZATION: The LPL gene has been localized to chromosome 8 (1).

MENDELIAN INHERITANCE: Co-dominant segregation was observed in two and seven three-generation families respectively for the PstI and TaqI RFLPs.

PROBE AVAILABILITY: For collaboration.

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REFERENCES: 1) Wion KL, Kirchgessner TG, Lusic AJ, Schotz MC and Lawn RM (1987) Science 235, 1638-1641.