An additional MspI RFLP at the human hepatic lipase (HL) gene locus

R.van Eyk, L.Chan¹, B.Top, A.F.H.Stalenhoe², L.M.Havekes³ and R.R.Frants

Department of Human Genetics, State University Leiden, PO Box 9503, 2300 RA Leiden, The Netherlands, ¹Departments of Cell Biology and Medicine, Baylor College of Medicine, Houston, TX 77030, USA, ²Department of Medicine, University Hospital Nijmegen, PO Box 9101, 6500 HB Nijmegen and ³Gaubius Institute TNO, PO Box 612, 2300 AP Leiden, The Netherlands

Source/Description: λ HLL2 contains a cDNA corresponding to the human hepatic lipase mRNA from position -8 to the poly A tail (1).

Polymorphism: In addition to the previously reported 1.0/1.2 kb MspI RFLP (1) MspI detects an additional RFLP with two allelic fragments of 4.8 and 5.8 kb.

Frequency: Studied in 61 Caucasians: 5.8 kb allele = 0.95
4.8 kb allele = 0.05

Not Polymorphic For: See (1).

Chromosomal Localisation: Human hepatic lipase is assigned to chromosome 15q15-q22 (1).

Mendelian Inheritance: Co-dominant inheritance demonstrated in four 2-generation families with 30 members.

Probe Availability: Request for probe to LC at the above address.

Acknowledgements: This work was supported partly by the Dutch Heart Foundation (88.100 to AFHS and RRF) and by the U.S. National Institutes of Health (HL-16512 to LC).

Reference: 1) S. Datta *et al.* (1988) *J. Biol. Chem.* **263**, 1107-1110.

An anonymous DNA segment (p ϕ 82) located to chromosome 22 identifies polymorphisms with RsaI and MspI (D22S12)

R.W.Deed*, C.H.Carr and D.Scott

Paterson Institute for Cancer Research, Cell Biology Laboratory, Christie Hospital and Holt Radium Institute, Manchester M20 9BX, UK

Source/Description: The probe was isolated from a Charon 21A bacteriophage human chromosome 20 specific library (1), and subcloned as a HindIII fragment into pUC19.

Polymorphism: RsaI detects a two allele polymorphism with bands at 1.4 kb and 1.0 kb, and invariant bands at 2.5 kb and 0.7 kb. MspI detects a two allele polymorphism with bands at 2.4 kb and 1.0 kb, and invariant bands at 2.6 kb, 2.0 kb, 1.4 kb and 1.2 kb.

Frequency: RsaI 1.4 kb allele 0.58; 1.0 kb allele 0.42: MspI 2.4 kb allele 0.25; 1.0 kb allele 0.75: based on 24 chromosomes.

Not Polymorphic For: PvuII, BamHI, BglII, EcoRI, TaqI, PstI, DraI, StuI.

Chromosomal Localisation: Using a somatic cell hybrid panel (2), the probe was localised to chromosome 22.

Mendelian Inheritance: Mendelian inheritance has been demonstrated in one large MEN 2A (Multiple Endocrine Neoplasia) Caucasian family.

Probe Availability: Freely available.

References: 1) van Dilla, M.A. *et al.* (1986) *Biotechnology* **4**, 537-552. 2) Sacchi, N. *et al.* (1986) *Science* **231**, 379-382.

*Present address: Molecular Oncology Laboratory, Imperial Cancer Research Fund Laboratories, St Bartholomews Hospital, London EC1A 7BE, UK