PvuII RFLP for the lecithin-cholesterol acyltransferase gene (LCAT) in baboons

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Source and description of clone: pUCLCAT.10 containing the human LCAT cDNA provided by Dr. Richard Lawn (McLean *et al.*, 1986).

Polymorphism: PvuII (CAG/CTG) digestion identifies a two-allele polymorphism with a band at either 2.9 (Pv1) or 2.7 kb (Pv2).

Frequency: Among 549 baboons
2.9 kb allele (Pv1): 0.83
2.7 kb allele (Pv2): 0.17

Not polymorphic for: AvaII, BamHI, BclI, EcoRI, HindIII, KpnI, PstI, SstI with DNA from 18 baboons.

Chromosomal location: Unknown in baboon, human chromosome 16q22.1 (Azoulay *et al.*, 1985).

Mendelian inheritance: Co-dominant segregation demonstrated in 6 baboon families.

Probe availability: Dr. Richard Lawn, Genentech, Inc., 460 Point San Bruno Boulevard, South San Francisco, CA 94080.

Other comments: High stringency hybridization and wash conditions were used for Southern blots of baboon genomic DNA with the heterologous human LCAT probe.

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References: Azoulay *et al.* (1985) *Cytogenet. Cell. Genet.* **40**, 573. McLean *et al.* (1986) *Proc. Natl. Acad. Sci. USA* **83**, 2335–2339.

P9 (DXYS75) detects a VNTR-type RFLP in the pseudoautosomal region

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Source and description of clone: P9 is a single copy subclone from a pool of 700 cosmids derived from the human Xp21-pter region (1). The 486p PstI insert is cloned in pKUN1 (2).

Polymorphism(s) described: TaqI identifies a VNTR type deletion/insertion polymorphism with at least 18 alleles in a range from 1.5–5.5 kb.

Frequency for population studied: A heterozygote frequency of 0.95 was observed in 19 unrelated Caucasians (9 males and 10 females).

Other enzymes tested: The RFLP was detected with all enzymes tested (EcoRI, HindIII, PvuII, and MspI).

Chromosomal localisation: P9 was localised to Xp223-pter with somatic cell hybrids and further to the pseudoautosomal region by recombination between the X and Y chromosome.

Mendelian inheritance: Co-dominant segregation was observed in a 3-generation family.

Probe availability: Contact M.C.Wapenaar.

Other comments: TaqI and MspI gave the best results in terms of resolution of the allelic bands.

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References: 1. Wapenaar, M.C. *et al.* (1988) *Genomics* **2**, 101–108. 2. Konings, R.N.H. *et al.* (1986) *Gene* **46**, 269–276.