A new RFLP detected with the anonymous single copy genomic clone L1.7 (D5S1)

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SOURCE AND DESCRIPTION OF CLONE: Probe L1.7 contains a 1.14kb Eco RI fragment cloned in pAT153 (pBR322 is reported in HGM8)(1).

POLYMORPHISM: Rsa I (GT/AC) (Boehringer-Mannheim Biochemicals) identifies an invariant 0.8kb band and a two allele polymorphism with a band at 1.5kb (C2) and a band at 0.5kb (C1).

FREQUENCY: Studied in 43 unrelated individuals,
0.5kb allele (C1) 0.79
1.5kb allele (C2) 0.21.

NOT POLYMORPHIC FOR: Apa I, Bam HI, Eco RI, Hae III, Hind III, Hinf I, Kpn I, Msp I, Pvu II, Sac I, Sma I, Taq I, and Xho I in panels of 7 to 17 unrelated individuals.

CHROMOSOMAL LOCALIZATION: The anonymous clone, D5S1, is assigned to human chromosome 5 by somatic cell hybridization (1,2).

MENDELIAN INHERITANCE: Codominant segregation has been observed in three informative families (see Figure).

PROBE AVAILABILITY: Contact Prof. P.L. Pearson (see 1).

OTHER COMMENTS: Low background is obtained under usual conditions. Note that two additional, low frequency RFLPs are seen for Bgl II and Pst I (1).

REFERENCES: 1. Willard *et al.*, Cytogenet.CellGenet., 40: 360-389. 1985.
2. Hofker *et al.*, Am.J.Hum.Genet., 39: 438-451. 1986.

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