A polymorphic DNA sequence (174-3.7) on chromosome 19 [D19S58]

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SOURCE/DESCRIPTION

A 3.7 kb unique Bgl II fragment from the human genomic phage 17-4 isolated with the LDRI52 probe (1) was subcloned into the Bam HI site of pBS.

POLYMORPHISM

Rsa I identifies a 2 allele polymorphism with fragments of either 1.25 kb or 1.0 kb. A constant band at 1.15 kb is also observed.

FREQUENCY

Estimated from 16 unrelated Caucasians:

1.25 kb fragment	0.56
1.0 kb fragment	0.44

NOT POLYMORPHIC FOR:

Bam HI, Ban I, Bgl II, BstNI, EcoRI, Hinc II, Hind III, Hinf I, Pst I, Pvu II, Stu I, Taq I, Xmn I

CHROMOSOMAL LOCALISATION

This clone has been mapped to 19q 13.2-13.3 by a chromosome 19 somatic cell hybrid panel and by two point linkage analysis (2) with the myotonic dystrophy locus (DM).

MENDELIAN INHERITANCE

Co-dominant segregation has been shown in 5 families.

PROBE AVAILABILITY

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OTHER COMMENTS

RFLPs were observed under normal conditions of hybridization and washing.

REFERENCE

1. Bartlett, et al, Science, March 27, 1987, Vol 235, pp. 1648-1650 (1987)
2. Lathrop et al., Am. J. Hum Genet. 37, 482-498 (1985)

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