RFLP in human F13A gene

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Source/Description: Blood coagulation F13A cDNA was isolated by antibody screening of a human placenta cDNA library. The clone extends from the nucleotide position 321 to 3761 corresponding to the cDNA reported by Grundman *et al.* (1).

Polymorphism: EcoRI, HindIII, PvuII or BamHI digests of human genomic DNA were probed with the F13A cDNA by Southern blot analysis. The polymorphic bands are indicated by arrow heads as shown in figure.

Frequency: Genomic DNA from 18 normal individuals was analysed. EcoRI: 30kb (0.50), 18kb (0.17), 16kb (0.33), 15kb (0.31), 12 kb (0.39). HindIII: 5.0kb (0.28), 5.2kb (0.29), 4.0kb (0.64), 3.8kb (0.21). PvuII: 10.5kb (0.44), 8.0kb (0.33), 7.5kb (0.22), 6.5kb (0.50), 6.0kb (0.66). BamHI: 5.9kb (0.61), 3.0kb (0.50).

Not Polymorphic For: BglII.

Chromosomal Localisation: Linked to MHC 6p21.3 (see reference 2).

Mendelian Inheritance: Co-dominant segregation shown in 3 informative families, 26 individuals.

Probe Availability: Available for collaboration.

References: 1. Grundman, U. *et al.* (1986) *Proc. Natl. Acad. Sci. USA* **83**, 8024–8028. 2. Genetic Maps (1984) **3** p. 432 (Stephen J. O'Brien ed.) Cold Spring Harbor Laboratory.

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A new, low frequency MspI allele at the D13S3 locus

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Source/Description: Probe P9A7 (D13S3) is a 0.95 Kb fragment, subcloned into pBR322, which is released by digestion with the restriction enzyme HindIII.

Polymorphism: Apart from the 4.5 Kb constant band and the 2 alleles described (1), MspI also identifies a third, less frequent 3.1 Kb allele at polymorphic frequency. P9A7 is also polymorphic for HindIII (1).

Frequency: In 41 unrelated individuals studied, the frequency of this allele is 0.024.

Not Polymorphic For: Not determined.

Chromosomal Localisation: This probe has been assigned to 13q33-qter using linkage analysis (2).

Mendelian Inheritance: Co-dominant segregation seen in two pedigrees.

Probe Availability: ATCC.

Other Comments: Because this probe is frequently used in studies of somatic changes on chromosome 13q in tumours, a complete characterization of normal variation at this locus is important.

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References: 1. Cavenee, W. *et al.* (1984) *Am. J. Hum. Genet.* **36**, 10. 2. Leppert, M. *et al.* (1986) *Am. J. Hum. Genet.* **39**, 425.