An RFLP associated with the human type III collagen gene (COL3A1)

R. Dalgleish, M. Woodhouse and S. Reeder

Department of Genetics, University of Leicester, University Road, Leicester LE1 7RH, and
*Nuffield Department of Clinical Medicine, John Radcliffe Hospital, Headington, Oxford OX3 9DU, UK

SOURCE AND DESCRIPTION OF CLONE: pIII-33-600 a 600 bp PstI/HindIII double digest fragment subcloned into pUC13 from the 2kb cDNA clone pIII-33 encoding the 3' end of the mRNA for the human type III collagen gene (COL3A1) (Dalgleish et al., 1985).

POLYMORPHISM: AvaII (G/G(A)^CC) (Anglian Biotechnology Ltd) identifies a simple two-allele polymorphism with a band at either 4.5 kb or 6.2 kb.

FREQUENCY: Studied 32 unrelated European Caucasians.
- 6.2 kb allele (A1) 0.74
- 4.5 kb allele (A2) 0.26


CHROMOSOMAL LOCALISATION: Probe localised to chromosome 2 using panel of somatic cell hybrids (Solomon et al., 1985).

MENDELIAN INHERITANCE: Co-dominant segregation demonstrated.

PROBE AVAILABILITY: Available now for collaboration; will be available without restriction following publication of Dalgleish et al. (1985).

OTHER COMMENTS: A cross-hybridising band at 2.6 kb is sometimes detected at low stringency.


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