Styl RFLP recognised by a human IRBP cDNA localised to chromosome 10

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SOURCE/DESCRIPTION: A 2184 bp cDNA (H.4 IRBP) encoding human interstitial retinol-binding protein (IRBP; Fong et al; 1984) isolated from a human retina cDNA library in λ gt10 by screening with a bovine IRBP cDNA probe (B.23; Liou et al; 1986).

POLYMORPHISMS:

Styl identifies a 2-allele polymorphism with bands at 2.3 kb (C1) and 1.95kb (C2) and invariant bands at 1.1, 1.0 and 0.8kb.

ALLELE FREQUENCIES:

(23 unrelated European Caucasians)

C1	2.3kb	0.61
C2	1.95kb	0.39

NOT POLYMORPHIC FOR: Hind III, Pvu II, Bcl I, Pst I and Bam HI.

MENDELIAN INHERITANCE: Codominant segregation was observed in two informative families.

CHROMOSOMAL LOCALISATION: Mapped to chromosome 10 using somatic cell hybrids. In situ hybridisation suggests regional assignments near p11.2-q11.2 with a secondary site of hybridisation at q24-25.

PROBE AVAILABILITY: Requests for probe to C.D.B. Bridges.

OTHER COMMENTS: This polymorphism is also detected by MspI with fragment sizes of 3.15kb and 2.7kb.

REFERENCES: Fong,S.L. et al; J. Neurochem; 42:1667-1676(1984)
Liou,G.I. et al; Vision Research; 26:1645-1654(1986)

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