RFLP for HP30, D11S28, an anonymous genomic clone localised to 11p12

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SOURCE AND DESCRIPTION OF CLONE: HP30, a 15 kb Eco R-1 fragment derived from a CHO-human somatic cell hybrid containing only the short arm of chromosome 11 and cloned into Charon 4A. (1)

POLYMORPHISM: Msp I (CCGG) (New England Biolabs) identified a two allele polymorphism with a band at 7.2 kb or bands at 3.1 and 4.1 kb. Invariant bands present at 4.7 kb and 1.85 kb.

FREQUENCY: Studied 20 European whites,
7.2 kb allele = .25
4.1 and 3.1 kb allele = .75

NOT POLYMORPHIC FOR: Bam H1, Eco R-1, SST I, Pvu II, Kpn I, Hind III, Pst I, with a panel of 10 unrelated individuals.

CHROMOSOMAL LOCALISATION: Regionally mapped with a previously described deletion mutant panel to 11p12. (1)

MENDELIAN INHERITANCE: Co-dominant segregation shown in 1 informative family with 3 individuals (see Figure).

PROBE AVAILABILITY: Available except for research related to Wilms tumor and cystic fibrosis.

OTHER COMMENTS: Probe contains Alu and non-Alu repetitive sequences. High background other than at conditons of high stringency. (2)

REFERENCE: 1. Gusella et al., Proc. Natl. Acad. Sci. USA 79:7804-8, 1982.
2. Fisher et al., Proc. Natl. Acad. Sci. USA 81:520-24, 1984.

ACKNOWLEDGEMENTS: We thank Dr. James Gusella for the probe, Dr. Carol Jones for the deletion mutant panel. Research supported by Cystic Fibrosis Grant #I041 5-01 and NIH Training Grant #T32-HD07197.

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