An XmnI RFLP detected with a probe for the CYP2E gene locus on chromosome 10

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Source/Description: A 1.6 Kbp fragment of the cDNA clone for the human ethanol inducible cytochrome P450 gene cloned in pUC18 at the EcoRI restriction site (Song and Gonzalez, 1986).

Polymorphism: XmnI detects a two allele polymorphism with bands at 16 kb (A1), 11.4 and 4.6 kb (A2).

Frequency: A total of 37 unrelated individuals of Caucasian origin were screened: A1 0.81; A2 0.19.

Not Polymorphic For: PvUII, EcoRI, Bst E II, EcoRV, Apal, Rsal, TaqI, MspI, HindIII, ScaI, PstI, BamHI, BglIII

Chromosomal Localisation: Assigned to chromosome 10 using somatic cell hybrids (Song et al., 1986; Umeno et al., 1988).

Mendelian Inheritance: Codominant inheritance observed in 6 CEPH families 35, 45, 1345, 1340, 1331, 1329–3.

Other Comments: Polymorphism detected under normal conditions. Final wash in 0.2×SSC, 0.1% SDS at 65°C.

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EcoRI restriction polymorphism at the 5' end of human acidic FGF gene

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Source/Description: A 0.25 Kb EcoRI-PstI cDNA fragment, containing 5' sequences of the human acidic FGF gene (1) was subcloned into a Bluescript vector and used as a probe in Southern analysis.

Polymorphism: EcoRI identifies 3 alleles with bands at 3.2 Kb, 2.4 Kb and 1.0 Kb.

Frequency: As determined in a panel of 73 unrelated Caucasian individuals, was as follows: allele 1 (2.4 Kb): 82.9%, allele 2 (3.2 Kb): 11.6%, allele 3 (1.0 Kb): 5.5%.

Not Polymorphic For: HindIII and ScaI, tested on 40 and 12 independent chromosomes, respectively.

Chromosomal Localisation: 5q31–5q33 (1).

Mendelian Inheritance: Codominant segregation observed in 4 families containing 10, 10, 20 and 9 individuals, respectively.

Probe Availability: Contact M. Jaye at the above address.

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