
An anonymous human single copy genomic clone (D8S5) (TL11) on chromosome 8 identifies a moderately frequent RFLP

E.Dietzsch, A.E.Retief, L.Warnich, M.J.Kotze, D.L.Nicholson, M.F.Fox, L.K.Vermaak, T.Rich and C.J.J.Oosthuizen

MRC Cytogenetic Research Unit, Faculty of Medicine, PO Box 63, Tygerberg 7505, South Africa

SOURCE AND DESCRIPTION OF CLONE: A 9.3kb DNA segment inserted into the Bam HI site of the phage λ L47.1 isolated from a human genomic library.

POLYMORPHISM: Hind III (A/AGCTT) (Amersham) detects a simple 2 allele polymorphism resulting in bands at either 11.8kb or 10.6kb.

FREQUENCY: Studied 33 Caucasians: 20 female, 13 male.

11.8kb allele (A1) 0.68

10.6kb allele (A2) 0.32

NOT POLYMORPHIC FOR: Eco RI, Bam HI, Msp I, Taq I, Pst I with a panel of 8 unrelated Caucasians.

CHROMOSOMAL LOCALIZATION: The probe was assigned to chromosome 8 using a panel of somatic cell hybrids (Fox & Retief, in press) and localized to 8q22-q23 by means of in-situ hybridization.

MENDELIAN INHERITANCE: Co-dominant segregation shown in six informative families (29 individuals).

PROBE AVAILABILITY: Available for collaborators.

OTHER COMMENTS: The probe was pre-reassociated with an excess of sonicated total human DNA (Sealey et al, 1985). Almost no background at stringency 0.5 x SSC.

REFERENCES: Fox MF & Retief AE, SAJ Science (in press). Sealey PG, Whittaker PA and Southern EM (1985). Nucleic Acids Res. 13(6) 1905-1922.

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