A new RFLP for D18S3(B74) an anonymous genomic clone localized to 18p113

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SOURCE AND DESCRIPTION OF CLONE: 6.0kb single copy fragment inserted into the EcoRI site of PBR322 isolated from a human genomic library(Morle et al, 1984.).

POLYMORPHISM: RsaI digestion gives three invariant bands of 1.70kb, 1.43kb and 1.18kb and detects a two allele polymorphism with bands at 1.95 kb or .97kb and .93kb.

FREQUENCY: Among 34 unrelated North Americans
1.90 kb allele 0.75
.97kb and .93kb allele 0.25

NOT POLYMORPHIC FOR: PvuII,BanII,NciI,EcoRI,BamHI,HindIII,BglII,PstI,SacI, BglI,XmnI,ScaI,XbaI,DraI,HinfI,BstNI,MboI,EcoRV,KpnI,BstXI,StuI,ApaI,BstEII ,NdeI,HphI,TthI,BclI,Sau96,Bsp1286,HincII,BanI,ScrFI.

CHROMOSOMAL LOCALIZATION: The probe has been localized to chromosome 18p113 by in situ hybridization (Mattei et al,1985).

MENDELIAN INHERITANCE: Codominant segregation pattern has been observed in 15 families(184 individuals).

PROBE AVAILABILITY: Available from J.L. Mandel.

OTHER COMMENTS: Two other polymorphisms have already been described for this probe(Morle et al,1984). The RsaI polymorphism is not in complete disequilibrium with these and therefore increases the informativeness of this marker.

REFERENCE: Morle et al.,(HGM7)Cytogenet. Cell Genet. 37(1984)544;Mattei et al.,Hum Genet. 69(1985)268.

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