Isolation of mapping of a polymorphic DNA sequence pEFZ10 on chromosome 18 [D18S22]

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SOURCE/DESCRIPTION: A 3.8 kb PvuII fragment from cosmid EFZ10 was subcloned into the HincI site of pUC18.

POLYMORPHISM: PvuII identifies a 5 allele VNTR polymorphism with bands between 2.5 kb and 5.0 kb with a constant band at 2.0 kb. PstI also identifies the same polymorphism.

FREQUENCY: With PvuII, 70 % heterozygosity was observed in 90 unrelated Caucasians.

NOT POLYMORPHIC FOR: MspI and BglII

CHROMOSOMAL LOCALIZATION: pEFZ10 has been assigned to chromosome 18 by multipoint linkage analysis(1) with loci (D18S1, D18S3) known to span this region(2,3).

MENDELIAN INHERITANCE: Co-dominant segregation of the PvuII RFLP was observed in 45 three generation families.

PROBE AVAILABILITY: Contact Y.N.

OTHER COMMENTS: RFLPs were observed under normal hybridization and wash stringencies.

REFERENCES:

1. G.M. Lathrop et al., Am. J. Hum. Genet. 37:482-498 (1985)
2. S. Naylor et al., Cytogenet. Cell Genet. 40:242-267 (1985)
3. P. O'Connell et al., abstract submitted to Human Gene Mapping Workshop 9. Cytogenet. Cell Genet., in press