Isolation and mapping of a polymorphic DNA sequence (pYNZ132) on chromosome 6 [D6S40]

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SOURCE/DESCRIPTION: A 4.1 kb MspI fragment from the cosmid YNZ132 isolated with zeta globin oligonucleotide (1) was subcloned into the MspI site of pUC18.

POLYMORPHISM: TaqI identifies a 6 allele VNTR polymorphism with bands between 1.2 kb and 1.8 kb. MspI, RsaI, PstI and PvuII also detect the same polymorphism.

HETEROZYGOSITY: 70% heterozygosity was observed in 99 unrelated Caucasians.

NOT POLYMORPHIC FOR: BglII and EcoRI

CHROMOSOMAL LOCALIZATION: This probe has been assigned to chromosome 6 by two point linkage analysis (2) with a locus (D6S2) known to span this region (3).

MENDelian INHERITANCE: Co-dominant segregation demonstrated in 51 three generation families.

PROBE AVAILABILITY: Contact Y.N..

OTHER COMMENTS: RFLPs were observed under normal conditions of hybridization and washing.

REFERENCES:

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