Isolation and mapping of a polymorphic DNA sequence (cTB14.15) on chromosome 10 [D10S32]

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SOURCE/DESCRIPTION: This cosmid was isolated from a somatic hybrid cell line 762-8A which included chromosome 10 and Y as human chromosomes (1). The cosmid includes a nearly 40 kb of human DNA digested partially with Sau3AI at the BamHI site of pWE15.

POLYMORPHISM: TaqI identifies a three allele polymorphism with a band at 3.6 kb (T1), 3.5 kb (T2) or 2.8 kb (T3).

FREQUENCY : Estimated from 70 unrelated Caucasians.

T1 : 0.15

T2 : 0.51

T3 : 0.34

NOT POLYMORPHIC FOR: PstI

CHROMOSOMAL LOCALIZATION: cTB14.15 has been assigned to chromosome 10p by multipoint linkage analysis (2) with loci mapped on chromosome 10 (3).

MENDELIAN INHERITANCE: Co-dominant segregation of RFLP was observed in 35 three generation families.

PROBE AVAILABILITY: Freely available (contact Y.N.).

OTHER COMMENTS: RFLPs were observed after competitive hybridization with total human DNA.

REFERENCES:

1. Fisher et al., Am. J. Hum. Genet. 40 :503-511 (1987)
2. G.M. Lathrop et al., Am. J. Hum. Genet. 37:482-498 (1985)
3. G.M. Lathrop et al., Genomics 2:157-164 (1988)