Isolation and mapping of a polymorphic DNA sequence (pCJ52.102T1) on chromosome 11 [D11S387]

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SOURCE/DESCRIPTION: A 2.0 kb TaqI fragment from cosmid CJ52.102, isolated from a library constructed from a mouse/human somatic cell hybrid that contains a chromosome 11q-16q derivative as the only human chromosome (1), was subcloned into the AccI site of pUC18.

POLYMORPHISM: TaqI identifies a three-allele RFLP, with polymorphic bands at 3.0 kb (T1), 2.0 kb (T2) and 1.5 kb (T3).

FREQUENCY: Estimated from 76 unrelated Caucasians.

T1 : 0.14

T2 : 0.84

T3 : 0.02

NOT POLYMORPHIC FOR: MspI and PstI.

CHROMOSOMAL LOCALIZATION: pCJ52.102T1 has been assigned to chromosome 11 by multipoint linkage analysis (2) with loci known to map on this chromosome (1).

MENDELIAN INHERITANCE: Codominant segregation of the TaqI RFLP was observed in 36 three generation families.

PROBE AVAILABILITY: Contact C.J.

OTHER COMMENTS: This probe may contain repetitive DNA sequences, and should be used in the presence of an excess of total human DNA in the prehybridization and hybridization mixtures.

REFERENCES:

1. C. Julier et al., in preparation
2. G.M. Lathrop et al., Am. J. Hum. Genet. **37**:482-498 (1985)

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