Isolation and mapping of a polymorphic DNA sequence (CJ52.193) on chromosome 11 [D11S384]

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SOURCE/DESCRIPTION: Cosmid CJ52.193 was 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). The Sau3A partial digest was inserted into pWe vector.

POLYMORPHISM: TaqI identifies a 2-allele polymorphism:

T1 : 8.5 kb

T2 : 4.3 kb

FREQUENCY: Estimated from 65 unrelated Caucasians.

T1 : 0.26

T2 : 0.74

NOT POLYMORPHIC FOR: MspI and PstI.

CHROMOSOMAL LOCALIZATION: CJ52.193 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 RFLPs was observed in 29 three generation families.

PROBE AVAILABILITY: Contact C.J.

OTHER COMMENTS: This probe contains repetitive DNA sequences, and needs to 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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