Isolation and mapping of a polymorphic DNA sequence (pCJ52.209M2) on chromosome 16 [D16S151]

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SOURCE/DESCRIPTION: A 3.7 kb MspI fragment from cosmid CJ52.209, isolated from a library constructed from a mouse/human somatic cell hybrid that contains a chromosome 16q derivative as the only human chromosome (1), was subcloned into the AccI site of pUC18.

POLYMORPHISM: MspI identifies a RFLP with bands at 4.3 kb (M1), 3.7 kb (M2).

FREQUENCY: Estimated from 76 unrelated Caucasians.

M1 : 0.85

M2 : 0.15

NOT POLYMORPHIC FOR: TaqI and PstI.

CHROMOSOMAL LOCALIZATION: pCJ52.209M2 has been assigned to chromosome 16 by multipoint linkage analysis (2) with loci known to map on this chromosome (1).

MENDELIAN INHERITANCE: Codominant segregation of the MspI RFLP was observed in 38 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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