Isolation and mapping of a polymorphic DNA sequence (CJ52.199) on chromosome 16 [D16S155]

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SOURCE/DESCRIPTION: Cosmid CJ52.199 was isolated from a library constructed from a mouse/human somatic cell hybrid that contains a chromosomellq-16q derivative as the only human chromosome (1). The Sau3A partial digest was inserted into pWe vector.

POLYMORPHISM: MspI identifies a two-allele RFLP, with polymorphic fragment at 13.8 kb (M1) and 7.3 and 6.5 kb (M2)

FREQUENCY: Estimated from 93 unrelated Caucasians.
M1 : 0.69
M2 : 0.31

NOT POLYMORPHIC FOR: TaqI and PstI.

CHROMOSOMAL LOCALIZATION: CJ52.199 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 TaqI RFLPs was observed in 47 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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